
**APPLICATION FOR RELIEF UNDER
SECTION 6409(a) OF THE SPECTRUM ACT
OR FOR SPECIAL PERMIT
For a Modification to a
WIRELESS COMMUNICATION FACILITY**

T-Mobile Northeast LLC

**c/o Ricardo M. Sousa, Esq.
Prince Lobel Tye LLP
One International Place, Suite 3700
Boston, MA 02110**

Applicant

**Property Location:
1923-1925 Massachusetts Ave
Cambridge, MA 02140
Map 179, Lot 81**

**Prepared by: Ricardo M. Sousa, Esq.
Prince Lobel Tye LLP
One International Place, Suite 3700
Boston, MA 02110
Telephone: (617) 456-8123
Facsimile: (617) 456-8100**

November 20, 2017

TABLE OF CONTENTS

**APPLICATION TO THE BOARD OF ZONING APPEALS
For Relief under Section 6409 of the Spectrum Act
Or For a Special Permit
for a
WIRELESS COMMUNICATION FACILITY**

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Map 179, Lot 81

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BZA APPLICATION FORM

CHECK LIST

PROPERTY LOCATION: 1923-1925 Massachusetts Ave DATE: 8/4/2017

PETITIONER OR REPRESENTATIVE: Ricardo M. Sousa, Esq. for T-Mobile Northeast LLC

ADDRESS & PHONE: One International Place, Suite 3700, Boston, MA 02110

BLOCK: 179 LOT: 81

PLEASE CHECK THAT YOU HAVE INCLUDED THE FOLLOWING WITH YOUR APPLICATION. APPLICATIONS WILL NOT BE ACCEPTED FOR PROCESSING & SCHEDULING UNLESS ALL REQUIRED DOCUMENTS ARE PROVIDED.

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<u>DOCUMENTS</u>	<u>REQUIRED</u>	<u>ENCLOSED</u>
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Elevations - 2 Sets *	<u>X</u>	<u>X</u>
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FOR SUBDIVISION ALSO INCLUDE:**

Proposed Deeds	<u>N/A</u>	<u>N/A</u>
Evidence of Separate Utilities ***	<u>N/A</u>	<u>N/A</u>
Proposed Subdivision Plan	<u>N/A</u>	<u>N/A</u>

Petitioners are advised to refer to Attachment A (Procedures for applying to the Board of Zoning Appeal) & consult zoning staff for review.

It is advisable for the Petitioner to discuss the petition with the abutters as listed in the Zoning BZA Case file.

* For Special Permits under Art. 4.32.G.1 (Communication Towers and Antennas), include a photo simulation.

** See attachment G.

*** Can be submitted after subdivision has been approved.

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(OWNER)

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Eric M. Hoagland
SIGNATURE BY LAND OWNER OR AUTHORIZED TRUSTEE, OFFICER OR AGENT*

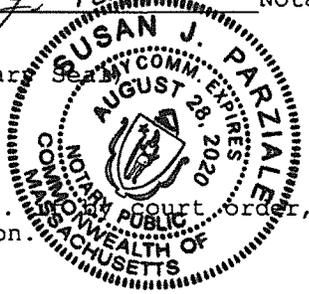
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Susan J. Parziale Notary

My commission expires AUG. 28, 2020 (Notary)



- If ownership is not shown in recorded deed, e.g. deed, or inheritance, please include documentation.

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DIMENSIONAL INFORMATION

APPLICANT: T-Mobile Northeast PRESENT USE/OCCUPANCY: Wireless Telecommunications

LOCATION: 1923-1925 Massachusetts Ave ZONE: BC

PHONE: 617-456-8123 REQUESTED USE/OCCUPANCY: Wireless Telecommunications

	<u>EXISTING CONDITIONS</u>	<u>REQUESTED CONDITIONS</u>	<u>ORDINANCE REQUIREMENTS¹</u>
TOTAL GROSS FLOOR AREA:	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (max.)
LOT AREA:	<u>N/A</u>		<u>N/A</u> (min.)
RATIO OF GROSS FLOOR AREA TO LOT AREA: ²	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (max.)
LOT AREA FOR EACH DWELLING UNIT:	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (min.)
SIZE OF LOT:			
WIDTH	<u>N/A</u>		<u>N/A</u> (min.)
DEPTH			
Setbacks in Feet:			
FRONT	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (min.)
REAR	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (min.)
LEFT SIDE	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (min.)
RIGHT SIDE	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (min.)
SIZE OF BLDG.:			
HEIGHT	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (max.)
LENGTH			
WIDTH			
RATIO OF USABLE OPEN SPACE TO LOT AREA: ³	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (min.)
NO. OF DWELLING UNITS:	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (max.)
NO. OF PARKING SPACES:	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (min./max)
NO. OF LOADING AREAS:	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (min.)
DISTANCE TO NEAREST BLDG. ON SAME LOT:	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (min.)

Describe where applicable, other occupancies on same lot, the size of adjacent buildings on same lot, and type of construction proposed, e.g.; wood frame, concrete, brick, steel, etc.

The proposed installation involves a modification of an existing Wireless Telecommunications Facility,
more commonly referred to as a "collocation".

- SEE CAMBRIDGE ZONING ORDINANCE ARTICLE 5.000, SECTION 5.30 (DISTRICT OF DIMENSIONAL REGULATIONS).
- TOTAL GROSS FLOOR AREA (INCLUDING BASEMENT 7'-0" IN HEIGHT AND ATTIC AREAS GREATER THAN 5') DIVIDED BY LOT AREA.
- OPEN SPACE SHALL NOT INCLUDE PARKING AREAS, WALKWAYS OR DRIVEWAYS AND SHALL HAVE A MINIMUM DIMENSION OF 15'.

BZA APPLICATION FORM

SUPPORTING STATEMENT FOR A VARIANCE

EACH OF THE FOLLOWING REQUIREMENTS FOR A VARIANCE MUST BE ESTABLISHED AND SET FORTH IN COMPLETE DETAIL BY THE APPLICANT IN ACCORDANCE WITH MGL 40A, SECTION 10:

- A) A Literal enforcement of the provisions of this Ordinance would involve a substantial hardship, financial or otherwise, to the petitioner or appellant for the following reasons:

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- B) The hardship is owing to the following circumstances relating to the soil conditions, shape or topography of such land or structures and especially affecting such land or structures but not affecting generally the zoning district in which it is located for the following reasons:

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- C) *DESIRABLE RELIEF MAY BE GRANTED WITHOUT EITHER:*

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Granting the Special Permit requested for 1923-1925 Massachusetts Ave (location) would not be a detriment to the public interest because:

- A) Requirements of the Ordinance can or will be met for the following reasons:

Please see the attached supporting statement.

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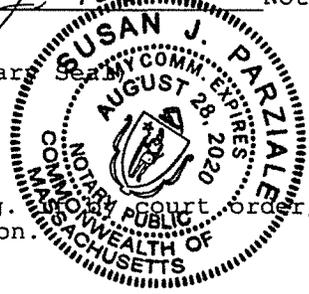
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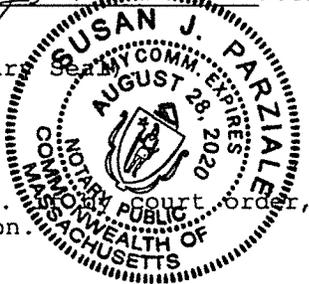
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- 1) Substantial detriment to the public good for the following reasons:

N/A

- 2) Relief may be granted without nullifying or substantially derogating from the intent or purpose of this Ordinance for the following reasons:

N/A

- * If You have any questions as to whether you can establish all of the applicable legal requirements, you should consult with your own attorney.

BZA APPLICATION FORM

SUPPORTING STATEMENT FOR A SPECIAL PERMIT

Please describe in complete detail how you meet each of the following criteria referring to the property and proposed changes or uses which are requested in your application. Attach sheets with additional information for special permits which have additional criteria, e.g.; fast food permits, comprehensive permits, etc., which must be met.

Granting the Special Permit requested for 1923-1925 Massachusetts Ave (location) would not be a detriment to the public interest because:

- A) Requirements of the Ordinance can or will be met for the following reasons:

Please see the attached supporting statement.

- B) Traffic generated or patterns of access or egress would not cause congestion hazard, or substantial change in established neighborhood character for the following reasons:

Please see the attached supporting statement.

- C) The continued operation of or the development of adjacent uses as permitted in the Zoning Ordinance would not be adversely affected by the nature of the proposed use for the following reasons:

Please see the attached supporting statement.

- D) Nuisance or hazard would not be created to the detriment of the health, safety and/or welfare of the occupant of the proposed use or the citizens of the City for the following reasons:

Please see the attached supporting statement.

- E) For other reasons, the proposed use would not impair the integrity of the district or adjoining district or otherwise derogate from the intent or purpose of this ordinance for the following reasons:

2

November 20, 2017

City of Cambridge
Board of Zoning Appeals
831 Massachusetts Avenue
Cambridge, MA 02139

Re: Eligible Facilities Request pursuant to Section 6409 of the
Spectrum Act and an Application for Special Permit, in the
alternative
Property Address: 1923-1925 Massachusetts Ave, Cambridge, MA 02140
Assessor's Map 179, Lot 81 (the "Property")
Applicant: T-Mobile Northeast LLC (the "Applicant")

Dear Honorable Members of the Board of Zoning Appeals:

This firm represents T-Mobile Northeast LLC ("T-Mobile") (hereinafter, the "Applicant") in connection with an application for a special permit from the City of Cambridge Board of Zoning Appeals (the "Board"), to modify an existing wireless communications facility on the Property. The Property is located in the Business BC (BC) zoning district. To the extent that the Board determines that the requirements of Article 4 Section 4.32G.1 of the City of Cambridge Zoning Ordinance (the "Ordinance") apply, the use of the Property for a wireless telecommunications facility is permitted by special permit from the Board¹. The Applicant's proposal satisfies the requirements for the grant of a special permit pursuant to Section 10-43 of the Ordinance.

The Applicant's Proposed Facility (as defined herein) is subject to Section 6409 of the Middle Class Tax Relief and Job Creation Act of 2012, more commonly known as the "Spectrum Act" (47 U.S.C. § 1455). As such, we respectfully submit that in the event that the Board determines that the application does not comply with the Spectrum Act, the Applicant hereby states that the special permit requirements set forth in the Ordinance are hereby met by the Applicant, and that relief must be granted to the Applicant. The compliance with the Spectrum Act is shown on the Eligible Facilities Request permit application form attached hereto and incorporated herein by reference (the "EFR").

The Applicant seeks to modify and upgrade its existing wireless communications facility by replacing four (4) existing panel antennas with four (4) new panel antennas (the "Proposed Facility"). All of the proposed antennas and RRH units will be installed on the roof or façade of the existing building located at the Property (the "Building"). The antennas mounted to the façade of the Building will be painted to match the façade of the building. The Applicant's

¹ Pursuant to Section 6409(a) of the Spectrum Act, state and local governments "may not deny and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station." As such, the Applicant submits that they need not apply for a special permit from the board. To the extent that this Board determines that the Applicants' proposed wireless facility must comply with special permit requirements set forth in Section 10-43 of the Ordinance, the Applicants submit that they have complied with said requirements, without waiving the argument that such relief is not required.

Prince Lobel Tye LLP
One International Place
Suite 3700
Boston, MA 02110
TEL: 617 456 8000
FAX: 617 456 8100

facilities are shown on the Plans attached hereto and incorporated herein by reference (the “Plans”).

I. Background

The Applicant is licensed by the Federal Communications Commission (the “FCC”) to construct and operate a wireless telecommunications network in various markets throughout the country, including the Commonwealth of Massachusetts and in particular in the City of Cambridge. A copy of the Applicant’s FCC license is attached hereto. The Applicant is in the process of designing and constructing a telecommunications system to serve all of the Commonwealth of Massachusetts. One of the key design objectives of its systems is to provide seamless coverage. Such a system requires a grid of radio transmitting and receiving links located approximately .5 to 2 miles apart, depending on the location of existing and proposed installations in the surrounding area, the existing use of the network and the existing topography. The radio transmitting and receiving facilities operate on a line-of-sight basis, requiring a clear path from the facility to the user on the ground. This dynamic requires the antennas to be located in a location where the signal is not obstructed or degraded by other buildings or by topographical features such as hills.

II. Project Description

As noted above, the Applicant proposes to modify its existing wireless facility currently operating on the rooftop of the Building by replacing four (4) existing panel antennas with four (4) new panel antennas. All of the proposed antennas and RRH units will be installed on the roof or façade of the Building. The antennas mounted to the façade of the Building will be painted to match the façade of the building. All new antennas will be installed to be consistent with the previous decision of the Board for this facility, dated January 29, 2014 (Case No. BZA-002554-2013) (the “Decision”). Consequently, the visual change to the Applicant’s existing facility will be de minimus.

III. Legal Arguments

A. The Applicant complies with the Wireless Communications provisions set forth in Section 4.32(g), footnote 49 of the Ordinance

Pursuant to Section 4.32(g) of the Ordinance, the Applicant’s proposed use for a wireless communications facility in the BC zoning district is permitted by special permit. The Applicant’s Proposed Facility further complies with the provisions set forth in Section 4.32(g), footnote 49 of the Ordinance:

- 1. The Board of Zoning Appeal shall consider the scope of or limitations imposed by any license secured from any state or federal agency having jurisdiction over such matters.**

Enclosed herewith is the Applicant’s FCC license. The Applicant meets all requirements imposed by governmental authorities having jurisdiction over the Proposed Facility, including by the FCC, to provide wireless communications in this market area.

The intent of the U.S. Congress, when it enacted the Telecommunications Act of 1996 (“TCA”) was to institute a framework to promote competition and innovation within the telecommunications industry. Under its license from the FCC, T-Mobile is obligated to provide a reliable “product” (i.e. wireless communications service) to the population of the City of Cambridge. Likewise, consumer expectations for increasingly robust and reliable service requires competing service providers (including T-Mobile) to identify and remedy existing gaps in reliable network coverage, or gaps that result from increasing subscriber voice and data traffic beyond the limits of existing network infrastructure. A carrier’s failure to remedy network gaps in a timely fashion can result in a significant loss of subscribers to competing telecommunications carriers. As demonstrated in the Affidavit of Radio Frequency Expert provided by the Applicant and attached hereto, the Proposed Facility and corresponding relief requested are necessary to remedy a gap in reliable service coverage within T-Mobile’s existing network infrastructure.

T-Mobile investigated alternative sites in and around the defined geographic area within which its engineers determined that a facility must be located to fill the gap in service coverage and to function effectively within its network of existing and planned facilities. This is an existing location that is being upgraded with new technology to provide the necessary coverage to the subject area of the City of Cambridge. Therefore, the Proposed Facility in the BC zoning district is necessary to close the coverage gap that is illustrated on the propagation maps submitted herewith. Consequently, T-Mobile is unable to close a gap in its wireless network without obtaining the requested relief under Section 6409 of the Spectrum act or a Special Permit to modify its existing wireless facility in the BC zoning district.

Furthermore, Section 6409(a) of the Spectrum Act mandates that state and local governments “*may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station.*” Under Section 6409(a)(2)(A)-(C) an Eligible Facilities Request is any request to modify a Tower or Base Station that involves “collocations of new Transmission Equipment,” “removal,” or “replacement” of Transmission Equipment.

Because federal law now preempts many of the permit application requirements that this jurisdiction would previously have required from an Applicant, we have provided, on the attached EFR, only the information that federal law allows this jurisdiction to consider when reviewing an EFR. As such, we submit that the Wireless Communications set forth in Section 4.32(g), footnote 49 of the Ordinance, provisions are not applicable to Proposed Facility and relief must be granted pursuant to Section 6409(a) of the Spectrum Act.

- 2. The Board of Zoning Appeal shall consider the extent to which the visual impact of the various elements of the proposed facility is minimized: (1) through the use of existing mechanical elements on the building’s roof or other features of the building as support and background, (2) through the use in materials that in texture and color blend with the materials to which the facilities are attached, or (3) other effective means to reduce the visual impact of the facility on the site.**

The Applicant's Proposed Facility will have a de minimus visual impact on the existing facility and Building. The Proposed Facility will be installed on the roof, the chimney, and the façade and of the Building, replacing four (4) of the existing antennas, and in conformity with the Decision.

As stated above, federal law now preempts many of the permit applications requirements that the Ordinance sets forth. To the extent that this Board determines that the Applicants' proposed wireless facility must comply with the Wireless Communications provisions set forth in Section 4.32(g), footnote 49 of the Ordinance, the Applicants submit that they have complied with said requirements, without waiving the argument that such relief is not required.

- 3. Where it is proposed to erect such a facility in any residential zoning district, the extent to which there is a demonstrated public need for the facility at the proposed locations, the existence of alternative, functionally suitable sites in nonresidential locations, the character of the prevailing uses in the area, and the prevalence of other existing mechanical systems and equipment carried on or above the roof of nearby structures. The Board of Zoning Appeal shall grant a special permit to erect such a facility in a residential zoning district only upon a finding that nonresidential uses predominate in the vicinity of the proposed facility's location and that the telecommunications facility is not inconsistent with the character that does prevail in the surrounding neighborhood.**

The Proposed Facility is located in the Business C zoning district.

B. The Applicant complies with the Special Permit Criteria set forth in Section 10-43 of the Ordinance²:

1. The requirements of the Ordinance can be met:

As provided above, the Applicant has met the requirements set forth in Section 4.32(g), footnote 49 of the Ordinance.

² Pursuant to Section 6409(a) of the Spectrum Act, state and local governments "may not deny and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station." As such, the Applicant submits that they need not apply for a special permit from the board. To the extent that this Board determines that the Applicants' proposed wireless facility must comply with special permit requirements set forth in Section 10-43 of the Ordinance, the Applicants submit that they have complied with said requirements, without waiving the argument that such relief is not required.

2. Traffic generated or patterns of access or egress would not cause congestion hazard, or substantial change in established neighborhood character for the following reasons:

The proposed installation will not obstruct existing rights-of-way or pedestrian access and will not change the daily conditions of access, egress, traffic, congestion hazard, or character of the neighborhood. The installation will not require the addition of any new parking or loading spaces. The use is passive and will not change the current conditions or appearance surrounding the Building. The facility will not produce any odors, fumes, noise or waste. There will be no need for water, sewer, or other municipal services.

As mentioned above, once modified, the facility will be unmanned and will only require infrequent visits by a technician, typically two times per month for routine diagnostics and/or maintenance, except in cases of emergency. These infrequent visits will not result in any material increase in traffic or disruption to patterns of access or egress that will cause congestion hazards or cause a substantial change in the established neighborhood character. The Applicant's maintenance personnel will make use of the existing access roads and parking at the Building.

3. The continued operation of or the development of adjacent uses as permitted in the Zoning Ordinance would not be adversely affected by the nature of the proposed use for the following reasons:

As described above and illustrated on the attached photograph simulations, the modification of the existing facility will produce a minimal change in the appearance of the Building. The modification of the existing facility will blend with the existing characteristics of the Building and the surrounding neighborhood. Moreover, the proposed installation will not generate any traffic, smoke, dust, heat, glare, discharge of noxious substances, nor will it pollute waterways or groundwater. Conversely, the surrounding properties and general public will benefit from the potential to enjoy improved wireless communication.

4. Nuisance or hazard would not be created to the detriment of the health, safety, and/or welfare of the occupant of the proposed use or the citizens of the City for the following reasons:

The operations of the proposed telecommunications facility will not adversely impact the health, safety, and the welfare of the residents of the City of Cambridge. On the contrary, the proposed use will benefit the City and promote the safety and welfare of its residents, businesses and drivers by providing reliable state-of-the-art digital wireless voice and data services. Further, the site will improve the reliability of emergency communications with the police and fire departments by eliminating dropped or blocked calls due to inadequate signal strength or insufficient network capacity to handle call volume, particularly important during emergency situations.

The Proposed Facility will comply with all federal, state and local safety requirements including the standards established by the FCC, Federal Aviation Administration (FAA), the

American Standards Institute (ANSI), and the Massachusetts Department of Public Health (MDPH).

Accordingly, the Proposed Facility will not adversely impact the health, safety and/or welfare of the neighborhood or the residents of the City of Cambridge.

5. For other reasons, the proposed installation will not impair the integrity of the district or adjoining district or otherwise derogate from the intent or purpose of this ordinance for the following reasons:

The Proposed Facility is designed to blend with the existing characteristics of the Property, reducing any visual impacts to the surrounding area. Accordingly, the Proposed Facility's design results in a minimal impact on the underlying and adjacent zoning district and is consistent with the Ordinance's intention to allow for less intrusive wireless telecommunications facilities in all districts (other than Open Space), including the BC zoning districts.

As mentioned above, the proposed modifications to the existing installation will not generate any traffic, smoke, dust, heat, glare, discharge or noxious substances, nor will it pollute waterways or groundwater.

6. The new use of the building construction is consistent with the Urban Design Objective set for tin Section 19.30 of the Ordinance:

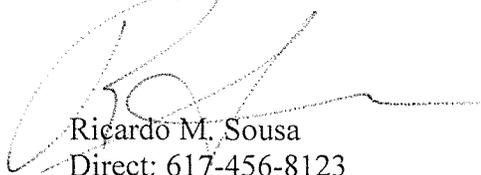
Not Applicable. The Applicant is not proposing to construct a new building or structure.

IV. Summary

The Applicant hereby requests that the Board determine that the City of Cambridge has the right to authorize the construction of the Proposed Facility through the issuance of a Building Permit, pursuant to Section 6409(a) of the Spectrum Act. Or, in the alternative, its proposed modifications to the existing telecommunications facility will not have any adverse effect on the neighborhood within which the Property is located in particular, and the City of Cambridge as a whole. The findings are made in view of the particular characteristics of the Property and of the Applicant's proposed siting and equipment, as detailed above. This Property is the most appropriate location for the installation and operation of the wireless communications facility.

For the foregoing reasons the Applicant respectfully requests that the Board grant the foregoing relief pursuant to Section 6409(a) of the Spectrum Act or, in the alternative, zoning relief in the form of a Special Permit and such other relief as the Board deems necessary to allow the installation and operation of the Applicant's Proposed Facility.

Sincerely,



Ricardo M. Sousa

Direct: 617-456-8123

Email: rsousa@princelobel.com

3

T-Mobile

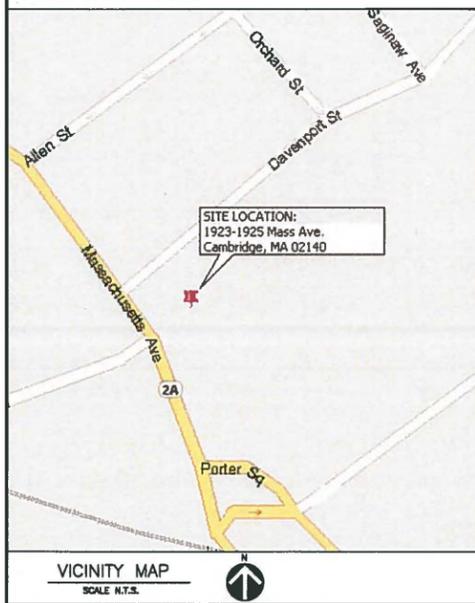
T-MOBILE NORTHEAST LLC

T-MOBILE SITE #: 4DE7032A
SITE NAME: B0032/1923-1925 MASS AVE.
1923-1925 CAMBRIDGE ST.
CAMBRIDGE, MA 02140

GENERAL NOTES

- THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE LESSEE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS / CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
- THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
- THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE LESSEE REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE LESSEE REPRESENTATIVE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
- ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY: DIG SAFE SYSTEM (MA, ME, NH, RI, VT): 1-888-344-7233 CALL BEFORE YOU DIG
- PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. THE PROJECT OWNER RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.

VICINITY MAP



DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE T-MOBILE NORTHEAST LLC, REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE NORTHEAST LLC. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.

SHEET INDEX

SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	5
A-1	ROOF PLAN	5
A-2	ELEVATION	5
A-3	CONSTRUCTION DETAILS	5
E-1	GROUNDING DETAILS & NOTES	5

PROJECT SUMMARY

SITE NUMBER:	4DE7032A
SITE NAME:	B0032/1923-1925 MASS AVE.
SITE ADDRESS:	1923-1925 MASSACHUSETTS AVE. CAMBRIDGE, MA 02140
ZONING DISTRICT:	BC
MAP/LOT NO.:	179/81
CONSTRUCTION TYPE:	ROOF TOP
PROPERTY OWNER:	1925 MASS AVE. LLC. C/O ERIC HOAGLAND 195 LEXINGTON AVE. CAMBRIDGE, MA 02138
APPLICANT, LESSEE/LICENSEE, PROJECT OWNER:	T-MOBILE NORTHEAST LLC, 15 COMMERCE WAY, SUITE B NORTON, MA 02766
THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.	
A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.	

T-Mobile

T-MOBILE NORTHEAST LLC
A DELAWARE LIMITED LIABILITY COMPANY

15 COMMERCE WAY, SUITE B
NORTON, MA 02766
PHONE: (508) 286-2700
FAX: (508) 286-2883

Dewberry

Dewberry Engineers Inc.
280 SUMMER STREET
10TH FLOOR
BOSTON, MA 02210
PHONE: 617.695.3400
FAX: 617.695.3310

smartlink

1997 ANNAPOLIS EXCHANGE
SUITE 200
ANNAPOLIS, MD 21401



SITE CONFIGURATION:
702Cc
APPROVALS

LANDLORD _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
A/E _____

PROJECT NO: 50063157

JOB NO: 50063189

DRAWN BY: MR

CHECKED BY: LSP

SUBMITTALS

5	11/13/17	FOR SUBMITTAL
4	10/28/16	FOR SUBMITTAL
3	10/26/16	FOR SUBMITTAL
2	10/19/16	FOR SUBMITTAL
1	09/18/15	FOR SUBMITTAL
0	08/27/15	FOR SUBMITTAL
8	07/27/15	FOR REVIEW

4DE7032A
B0032/1923-1925
MASS AVENUE
1923-1925
CAMBRIDGE, MA 02140

SHEET TITLE

TITLE SHEET

SHEET NUMBER

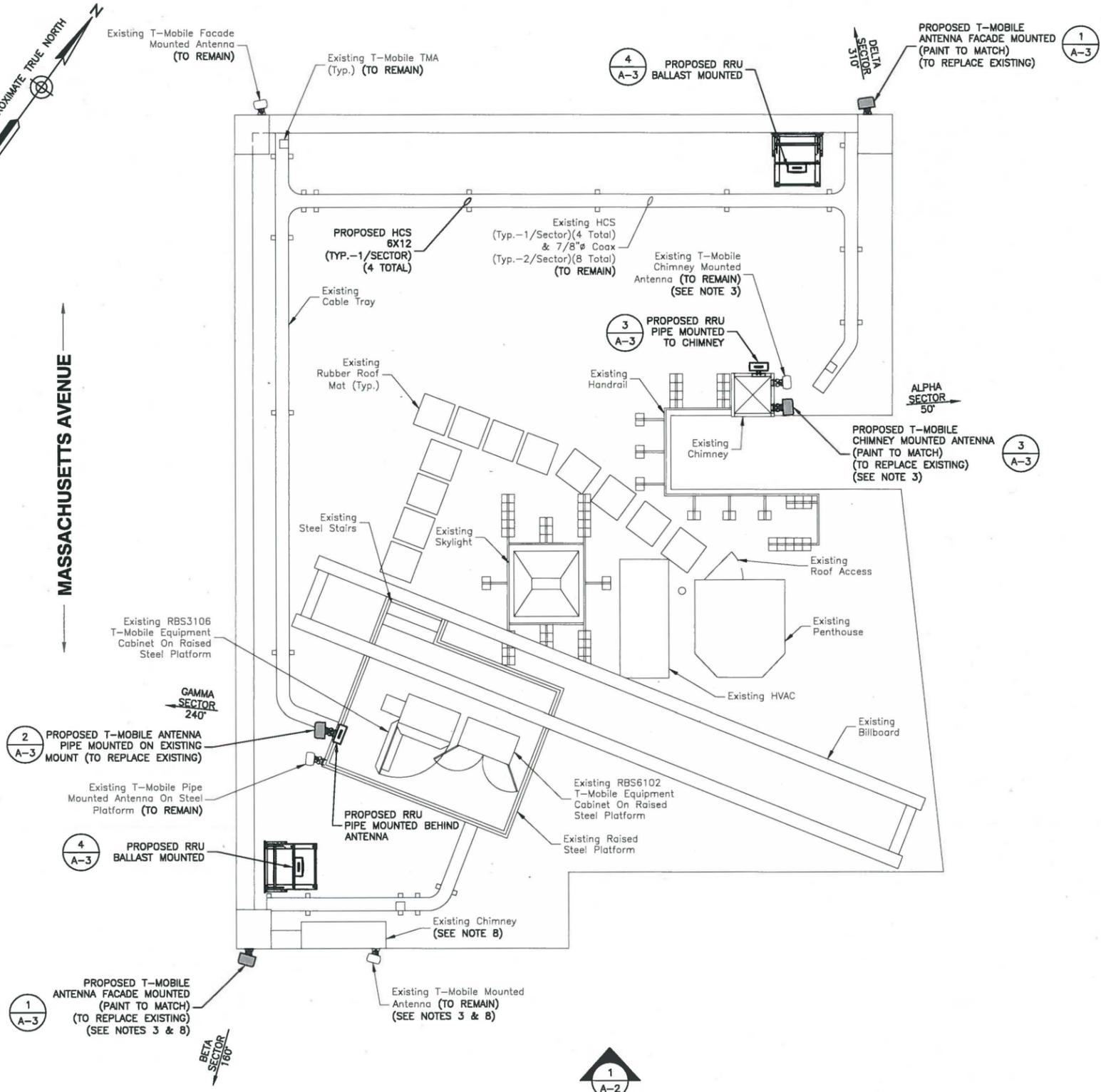
T-1

2C TO 792DB SCOPE OF WORK

- REMOVE AND REPLACE EXISTING (1) AIR21 B2P/B4A ANTENNA WITH (1) AIR21 B4A/B12P 4-FT. ANTENNA AT EACH SECTOR (4 TOTAL).
- EXISTING (1) AIR21 B2A/B4P ANTENNA TO REMAIN (4 TOTAL).
- ADD (1) RRUS11 B12 AT EACH SECTOR (4 TOTAL).
- EXISTING (1) TMA AT EACH SECTOR TO REMAIN (4 TOTAL).
- ADD PROPOSED BETA AND DELTA EQUIPMENT BALLAST (2 TOTAL) FOR RRU.
- INSPECT EXISTING HCS CABLE. REMOVE AND REPLACE AS REQUIRED. VERIFY IF DC CABLE IS NEEDED.
- ADD (1) 6X12 HCS (4 TOTAL) AS REQUIRED.
- ADD SECOND FIBER JUMPERS FOR L21
- PAINT TO MATCH ALL ANTENNAS AND SURFACE MOUNTED CABLES/HARDWARE.
- UPGRADE POWER IF NECESSARY. (SEE NOTE 10)



MASSACHUSETTS AVENUE



NOTES:

1. NORTH ARROW SHOWN AS APPROXIMATE.
2. SOME EXISTING & PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
3. CONTRACTOR TO INSPECT MOUNTS & MOUNTING LOCATIONS FOR DAMAGE OR DECAY. CONTRACTOR TO REPAIR, REPLACE AND RE-POINT BRICK AS REQUIRED.
4. PLAN BASED ON CONSTRUCTION DRAWINGS BY PROTERRA DESIGN GROUP, LLC, DATED 6/28/12 AND SITE VISIT BY DEWBERRY ENGINEERS INC. ON 5/22/15.
5. ALPHA, BETA, DELTA SECTORS ANTENNAS AND MOUNTING HARDWARE SHALL BE PAINTED TO MATCH EXISTING BUILDING FACADE.
6. CONTRACTOR TO PROVIDE APPROPRIATE ROOF PROTECTION WHEN PERFORMING WORK ON ROOF.
7. CONTRACTOR TO COORDINATE PRE AND POST ROOF INSPECTIONS WITH LANDLORDS/OWNER ROOF CONTRACTOR.
8. EXISTING CHIMNEY TO BE RE-POINTED AT BETA SECTOR. REPLACE AND RE-POINT BRICK AS NEEDED.

PARTIAL ROOF PLAN

SCALE: 1"=10' FOR 11"x17"
1"=5' FOR 22"x34"



T-MOBILE NORTHEAST LLC
A DELAWARE LIMITED LIABILITY COMPANY
15 COMMERCE WAY, SUITE B
NORTON, MA 02786
PHONE: (508) 286-2700
FAX: (508) 286-2883



Dewberry Engineers Inc.
280 SUMMER STREET
10TH FLOOR
BOSTON, MA 02210
PHONE: 617.895.3400
FAX: 617.895.3310



1997 ANNAPOLIS EXCHANGE
SUITE 200
ANNAPOLIS, MD 21401



SITE CONFIGURATION:
702Cc

APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A/E _____

PROJECT NO: 50063157

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1	09/18/15	FOR SUBMITTAL
0	08/27/15	FOR SUBMITTAL
B	07/27/15	FOR REVIEW

4DE7032A
B0032/1923-1925
MASS AVENUE
1923-1925
CAMBRIDGE, MA 02140

SHEET TITLE
ROOF PLAN

SHEET NUMBER
A-1

T-Mobile

T-MOBILE NORTHEAST LLC
A DELAWARE LIMITED LIABILITY COMPANY

15 COMMERCE WAY, SUITE B
NORTON, MA 02766
PHONE: (508) 286-2700
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smartlink

1997 ANNAPOLIS EXCHANGE

SUITE 200
ANNAPOLIS, MD 21401



SITE CONFIGURATION:

702Cc

APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A/E _____

PROJECT NO: 50063157

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3	10/26/16	FOR SUBMITTAL
2	10/19/16	FOR SUBMITTAL
1	09/18/15	FOR SUBMITTAL
0	08/27/15	FOR SUBMITTAL
B	07/27/15	FOR REVIEW

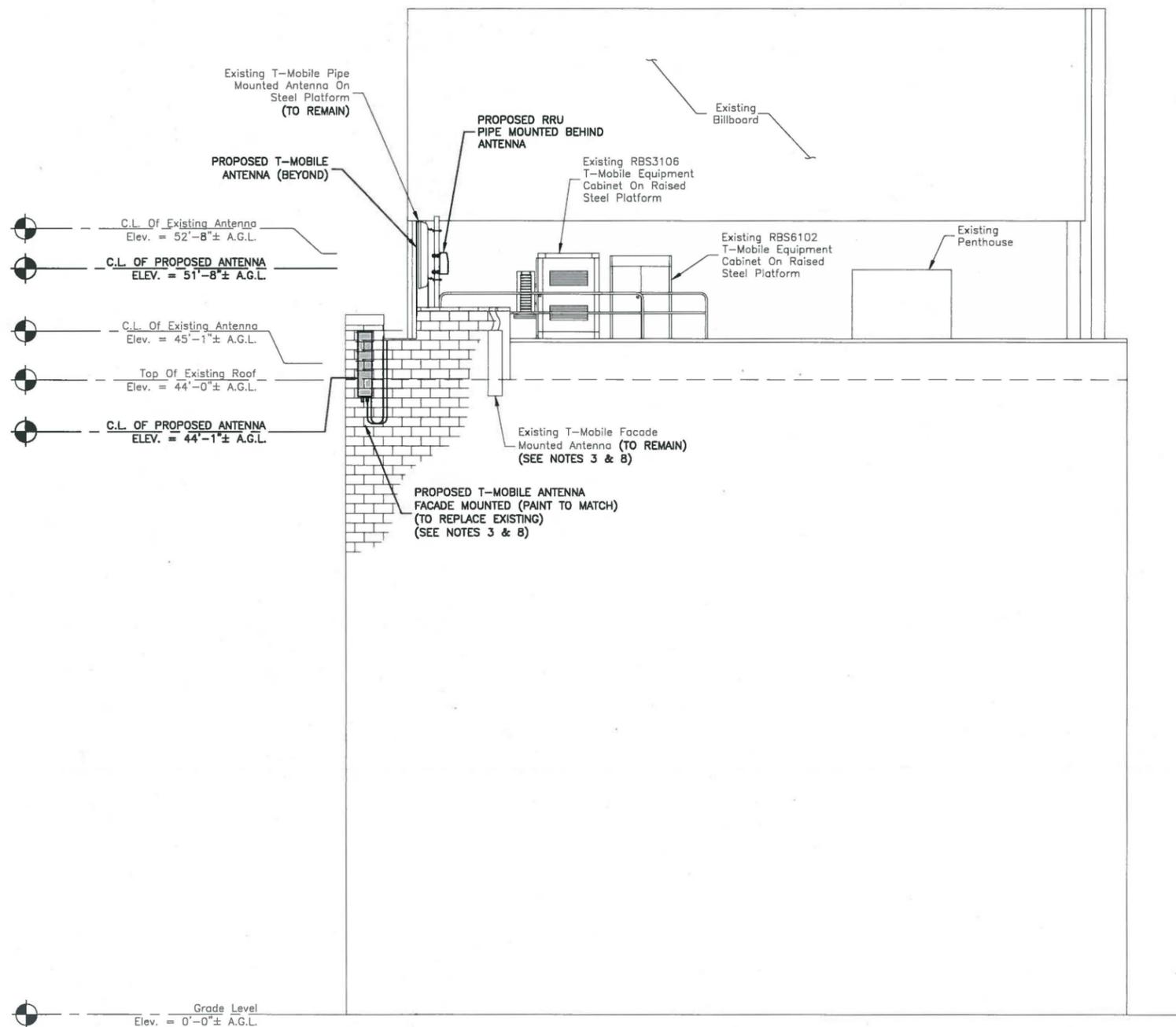
4DE7032A
B0032/1923-1925
MASS AVENUE
1923-1925
CAMBRIDGE, MA 02140

SHEET TITLE

ELEVATION

SHEET NUMBER

A-2



NOTES:

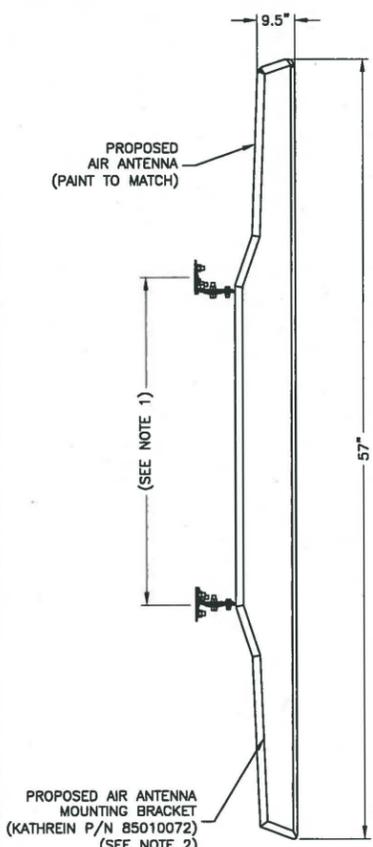
- ELEVATIONS SHOWN AS APPROXIMATE.
- SOME EXISTING & PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
- INSPECT MOUNTS FOR DAMAGE OR DECAY AND REPLACE AS NEEDED.
- PLAN BASED ON CONSTRUCTION DRAWINGS BY PROTERRA DESIGN GROUP, LLC, DATED 6/28/12 AND SITE VISIT BY DEWBERRY ENGINEERS INC. ON 5/22/15.
- ALPHA, BETA, DELTA SECTORS ANTENNAS AND MOUNTING HARDWARE SHALL BE PAINTED TO MATCH EXISTING BUILDING FACADE.
- CONTRACTOR TO PROVIDE APPROPRIATE ROOF PROTECTION WHEN PERFORMING WORK ON ROOF.
- CONTRACTOR TO COORDINATE PRE AND POST ROOF INSPECTIONS WITH LANDLORDS/OWNER ROOF CONTRACTOR.
- EXISTING CHIMNEY TO BE RE-POINTED AT BETA SECTOR. REPLACE AND RE-POINT BRICK AS NEEDED.

ELEVATION

SCALE: 1"=10' FOR 11"x17"
1"=5' FOR 22"x34"



1

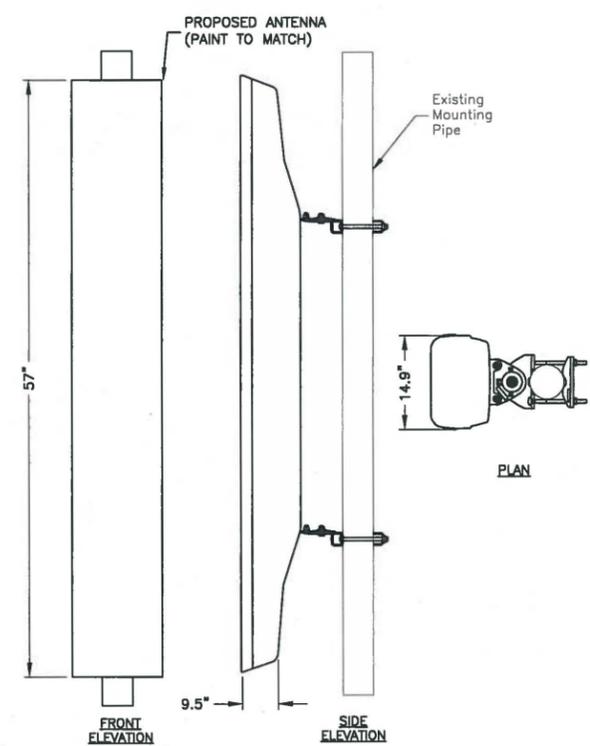


- NOTES:**
1. VERIFY VERTICAL CENTER TO CENTER MEASUREMENT WITH ANTENNA MANUFACTURER.
 2. CONTRACTOR TO PROVIDE & INSTALL 1/2" HIT-HY-70 ADHESIVE ANCHOR WITH SCREENTUBE, 6" MIN. EMBEDMENT INTO WALL FOR MASONRY OR 1/2" HIT-HY-200 ADHESIVE ANCHOR WITH 4-1/2" MIN EMBEDMENT INTO CONCRETE. FIELD VERIFY WALL CONSTRUCTION TYPE.
 3. WEATHER SEAL AROUND EXTERIOR WALL ATTACHMENT ANGLES WITH SILICONE SEALANT.
 4. PAINT ALL ANTENNAS, MOUNTS AND ASSOCIATED EQUIPMENT TO MATCH BUILDING FAÇADE.
 5. ALL COAX IS TO BE NEATLY BUNDLED AND PAINTED TO MATCH THE BUILDING FAÇADE.
 6. VERIFY WITH ANTENNA BRACKET PRIOR TO CONSTRUCTION.

AIR ANTENNA DETAIL (BETA/DELTA SECTOR)

SCALE: N.T.S.

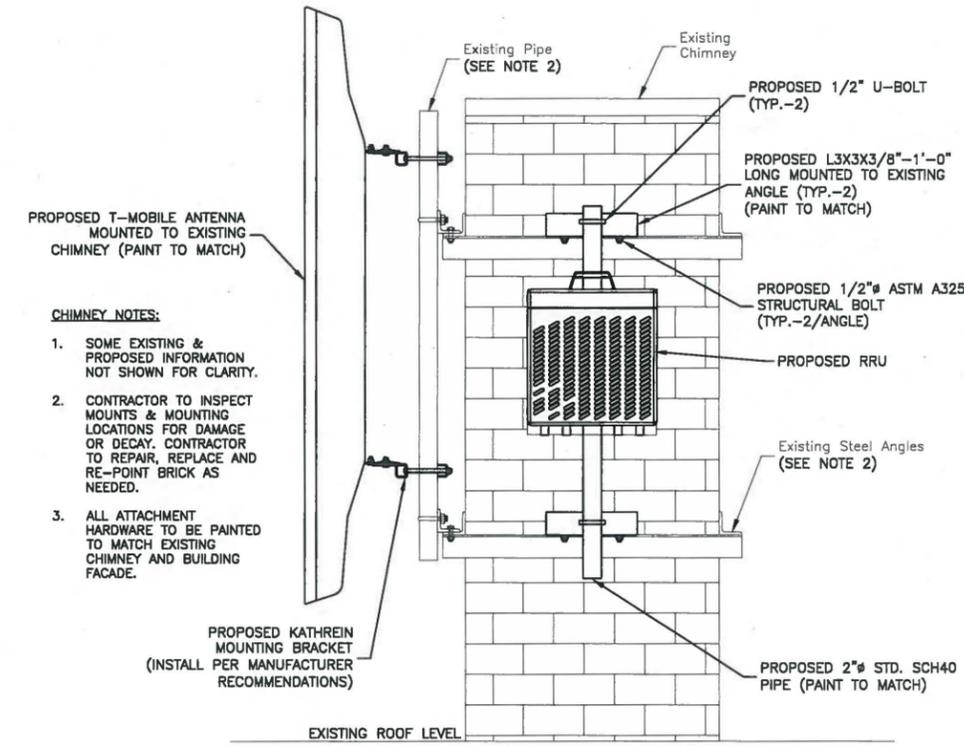
1



PIPE MOUNTED ANTENNA DETAIL (GAMMA SECTOR)

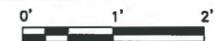
SCALE: N.T.S.

2

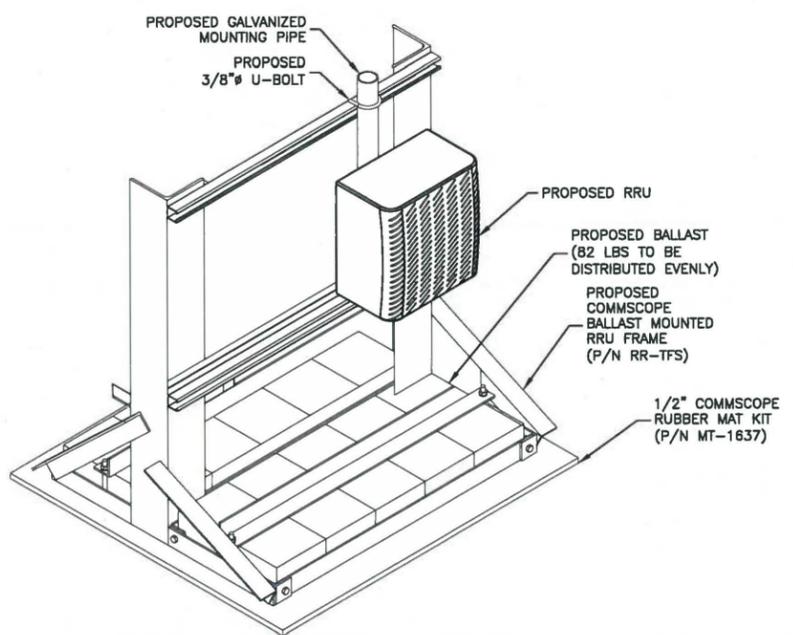


CHIMNEY ANTENNA ELEVATION (ALPHA SECTOR)

SCALE: 1/2"=1' FOR 11"x17"
1"=1' FOR 22"x34"



3



- NOTES:**
1. ALL HARDWARE TO BE GALVANIZED.
 2. 2" MIN. CLEARANCE ON RRU FRONT, 1'-6" ON TOP, 4" ON SIDE.
 3. MAXIMUM LOAD PER RRU BALLAST MOUNT IS 300 LBS.

RRU BALLAST FRAME DETAIL

SCALE: N.T.S.

4

T-MOBILE RF SYSTEM SCHEDULE*														
SECTOR	EXISTING ANTENNAS			EXISTING COAX CONFIGURATION		EXISTING EQUIPMENT CONFIGURATION		EXISTING/PROPOSED ANTENNAS			PROPOSED COAX CONFIGURATION		PROPOSED EQUIPMENT CONFIGURATION	
	QTY.	C.L. (FT A.G.L.)	ANTENNA MODEL & DIMENSIONS	QTY.	COAX SIZE	QTY.	TYPE	QTY.	C.L. (FT A.G.L.)	ANTENNA MODEL & DIMENSIONS	QTY.	CABLE SIZE	QTY.	TYPE
ALPHA	1	50'-0"	ERICSSON AIR21 B2A/B4P (56"Hx12"Wx7.9"D)	1	7/8"	1	1B TWIN TMA	1	50'-0"	AIR21-B2A/B4P (56.1"Hx12.1Wx7.9"D)	2	7/8"	1	1B TWIN TMA
	1	50'-0"	ERICSSON AIR21 B4A/B2P (56"Hx12"Wx7.9"D)	1	3x6 HCS	1	-	1	50'-0"	AIR21 B4A/B12P 4 FT. (57"Hx14.9"Wx9.5"D)	1	3x6 HCS	1	RRUS11-B12
BETA	1	50'-0"	ERICSSON AIR21 B2A/B4P (56"Hx12"Wx7.9"D)	1	7/8"	1	1B TWIN TMA	1	50'-0"	AIR21-B2A/B4P (56.1"Hx12.1Wx7.9"D)	2	7/8"	1	1B TWIN TMA
	1	50'-0"	ERICSSON AIR21 B4A/B2P (56"Hx12"Wx7.9"D)	1	3x6 HCS	1	-	1	50'-0"	AIR21 B4A/B12P 4 FT. (57"Hx14.9"Wx9.5"D)	1	3x6 HCS	1	RRUS11-B12
GAMMA	1	55'-0"	ERICSSON AIR21 B2A/B4P (56"Hx12"Wx7.9"D)	1	7/8"	1	1B TWIN TMA	1	55'-0"	AIR21-B2A/B4P (56.1"Hx12.1Wx7.9"D)	2	7/8"	1	1B TWIN TMA
	1	55'-0"	ERICSSON AIR21 B4A/B2P (56"Hx12"Wx7.9"D)	1	3x6 HCS	1	-	1	55'-0"	AIR21 B4A/B12P 4 FT. (57"Hx14.9"Wx9.5"D)	1	3x6 HCS	1	RRUS11-B12
DELTA	1	55'-0"	ERICSSON AIR21 B2A/B4P (56"Hx12"Wx7.9"D)	1	7/8"	1	1B TWIN TMA	1	55'-0"	AIR21-B2A/B4P (56.1"Hx12.1Wx7.9"D)	2	7/8"	1	1B TWIN TMA
	1	55'-0"	ERICSSON AIR21 B4A/B2P (56"Hx12"Wx7.9"D)	1	3x6 HCS	1	-	1	55'-0"	AIR21 B4A/B12P 4 FT. (57"Hx14.9"Wx9.5"D)	1	3x6 HCS	1	RRUS11-B12

*VERIFY ALL INFORMATION WITH LATEST RF DATA SHEET 4DE7032A VERSION 5.1 CONFIG. 2C TO 702CC DATED 10/17/17. VERIFY WITH T-MOBILE RF AND CM PRIOR TO CONSTRUCTION.

RF SCHEDULE

SCALE: N.T.S.

5

T-Mobile
T-MOBILE NORTHEAST LLC
A DELAWARE LIMITED LIABILITY COMPANY
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
PHONE: (508) 286-2700
FAX: (508) 286-2883

Dewberry
Dewberry Engineers Inc.
280 SUMMER STREET
10TH FLOOR
BOSTON, MA 02210
PHONE: 617.695.3400
FAX: 617.695.3310

smartlink
1997 ANNAPOLIS EXCHANGE
SUITE 100
ANAPOLIS, MD 21401

LUIS PUGA
CIVIL
NO. 51133
REGISTERED PROFESSIONAL ENGINEER
STATE OF MARYLAND

APPROVALS
LANDLORD _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
A/E _____

PROJECT NO: 50063157
JOB NO: 50063189
DRAWN BY: MR
CHECKED BY: LSP

SUBMITTALS

5	11/13/17	FOR SUBMITTAL
4	10/28/16	FOR SUBMITTAL
3	10/26/16	FOR SUBMITTAL
2	10/19/16	FOR SUBMITTAL
1	09/18/15	FOR SUBMITTAL
0	08/27/15	FOR SUBMITTAL
B	07/27/15	FOR REVIEW

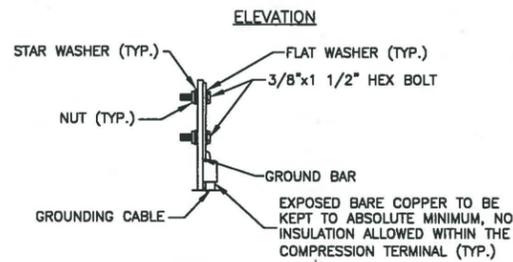
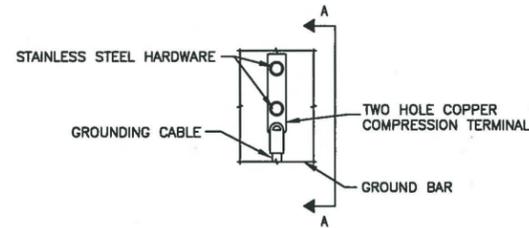
4DE7032A
B0032/1923-1925
MASS AVENUE
1923-1925
CAMBRIDGE, MA 02140

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER
A-3

ELECTRICAL & GROUNDING NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- RIGID STEEL CONDUITS SHALL BE GROUNDED AT BOTH ENDS.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THIN INSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND LESSEE/LICENSEE CELL SITE TELCO CABINET OR BTS CABINET AS INDICATED ON THIS DRAWING PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND LESSEE/LICENSEE CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- GROUNDING SHALL COMPLY WITH NEC ART. 250.
- GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURER'S COAX CABLE GROUNDING KITS SUPPLIED BY LESSEE/LICENSEE.
- USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF LESSEE/LICENSEE EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, AND ALNA TO EGB PLACED NEAR THE ANTENNA LOCATION.
- BOND ANTENNA EGBS AND MGB TO GROUND RING.
- TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
- BOND ANY METAL OBJECT WITHIN 7 FEET OF THE PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.
- VERIFY PROPOSED SERVICE UPGRADE WITH LOCAL UTILITY COMPANY PRIOR TO CONSTRUCTION.



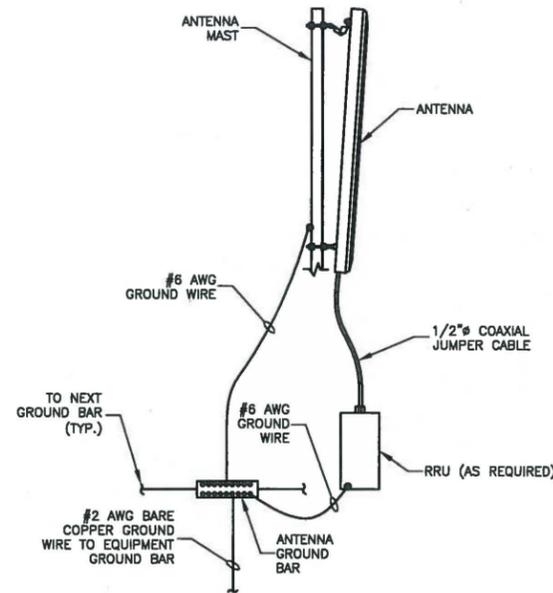
NOTES:

- DOUBLING UP OR STACKING OF CONNECTIONS IS NOT PERMITTED.
- OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

TYPICAL GROUND BAR MECHANICAL CONNECTION DETAIL

SCALE: N.T.S.

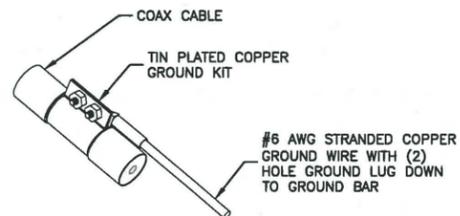
1



TYPICAL ANTENNA GROUNDING DETAIL

SCALE: N.T.S.

2



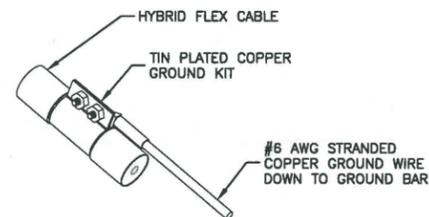
NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND. ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- GROUNDING KIT SHALL BE TIN PLATED COPPER WITH TWO-HOLE LUG, SIZE PER COAX DIAMETER.
- WEATHER SEAL GROUND KIT PER CARRIER REQUIREMENTS.
- COAX CABLE GROUND KIT LOCATION & QUANTITY SHALL BE PER CARRIER SPECIFICATIONS & STANDARDS.

COAX GROUNDING DETAIL

SCALE: N.T.S.

4



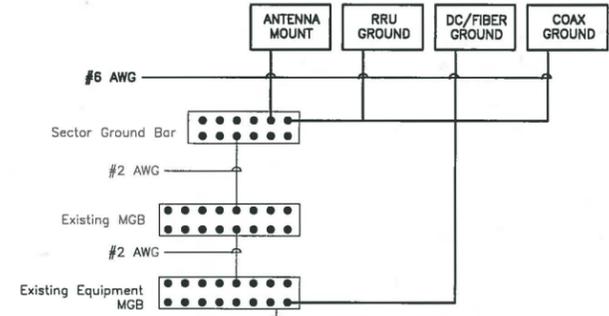
NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND. ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- GROUNDING KIT LOCATION & QUANTITY PER CARRIER SPECIFICATIONS.
- WEATHER PROOFING SHALL BE PER CARRIER REQUIREMENTS.

HCS GROUNDING DETAIL

SCALE: N.T.S.

5



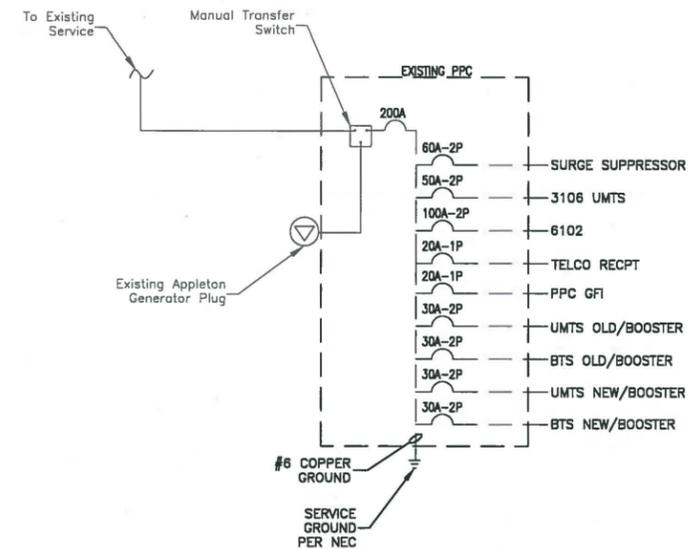
NOTES:

- ALL PROPOSED EQUIPMENT TO BE GROUNDED TO SECTOR GROUND BAR.
- TYPICAL FOR ALL SECTORS.
- GROUNDING SHALL COMPLY WITH NEC ART. 250 & T-MOBILE SPECIFICATIONS.

SCHEMATIC GROUNDING DIAGRAM

SCALE: N.T.S.

3



NOTE:

- VERIFY REQUIRED BREAKER SIZE WITH T-MOBILE CM FOR UPGRADE. CONTRACTOR TO VERIFY EXISTING PANEL CONDITIONS AND ALL EXISTING WIRING PRIOR TO INSTALLATION. CONTRACTOR TO CONFIRM EXISTING PANEL HAS CAPACITY FOR BREAKER REQUIREMENTS AND EXISTING CONDUITS/WIRING ARE SUITABLE FOR ANY UPGRADE.

ONE LINE POWER DIAGRAM

SCALE: N.T.S.

6



T-MOBILE NORTHEAST LLC
A DELAWARE LIMITED LIABILITY COMPANY
15 COMMERCE WAY, SUITE B
NORTON, MA 02786
PHONE: (508) 286-2700
FAX: (508) 286-2893



Dewberry Engineers Inc.
280 SUMMER STREET
10TH FLOOR
BOSTON, MA 02210
PHONE: 617.895.3400
FAX: 617.895.3310



1997 ANNAPOLIS EXCHANGE
SUITE 200
ANNAPOLIS, MD, 21401



SITE DESIGNATION:

702Cc

APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A/E _____

PROJECT NO: 50063157

JOB NO: 50063189

DRAWN BY: MR

CHECKED BY: LSP

SUBMITTALS

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4DE7032A
B0032/1923-1925
MASS AVENUE
1923-1925
CAMBRIDGE, MA 02140

SHEET TITLE

GROUNDING DETAILS
& NOTES

SHEET NUMBER

E-1

4

Photographic Simulation Package

Proposed Upgrade to Existing Wireless Telecommunications Facility:

4DE7032A -BO0032 Mass Ave
1923-1925 Mass Ave
Cambridge, MA 02140

- proposed changes to existing Rooftop Mount Antenna Structure
- documentation photographs taken 10/13/16

Simulation package prepared by:

Virtual Site Simulations, LLC
9 walts way
Narragansett, Rhode Island 02882

www.VirtualSiteSimulations.com

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution





Proposed Upgrade to Existing Wireless Telecommunications Facility:
4DE7032A -BO0032 Mass Ave
1923-1925 Mass Ave
Cambridge, MA 02140

- Legend:
- ☆ Facility Location
 - ⊗ Photo Documentation location
 - 500 Ft Radius

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution

VSS Your Visual Data Partner

smartlink

T-Mobile

Existing



Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
1	Massachusetts Ave East	42.38883 -71.11980	+/- 0.04 Miles	South	8.53	Year Round

Site: **4DE7032A -BO0032 Mass Ave**

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution





3 of 10

Simulation

Antennas to removed, replaced and painted to match



Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
1	Massachusetts Ave East	42.38883 -71.11980	+/- 0.04 Miles	South	8.53	Year Round

Site: 4DE7032A -BO0032 Mass Ave

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Existing



Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
2	Massachussetts Ave West	42.38959 -71.12037	+/- 0.04 Miles	North East	117.38	Year Round

Site: **4DE7032A -BO0032 Mass Ave**

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



Simulation

Antennas to removed, replaced and painted to match



Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
2	Massachusetts Ave West	42.38959 -71.12037	+/- 0.04 Miles	North East	117.38	Year Round

Site: **4DE7032A -BO0032 Mass Ave**

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Existing



Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
3	Davenport St.	42.38986 -71.11935	+/- 0.04 Miles	North West	226.88	Year Round

Site: **4DE7032A -BO0032 Mass Ave**

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



Simulation

Antennas to removed, replaced and painted to match

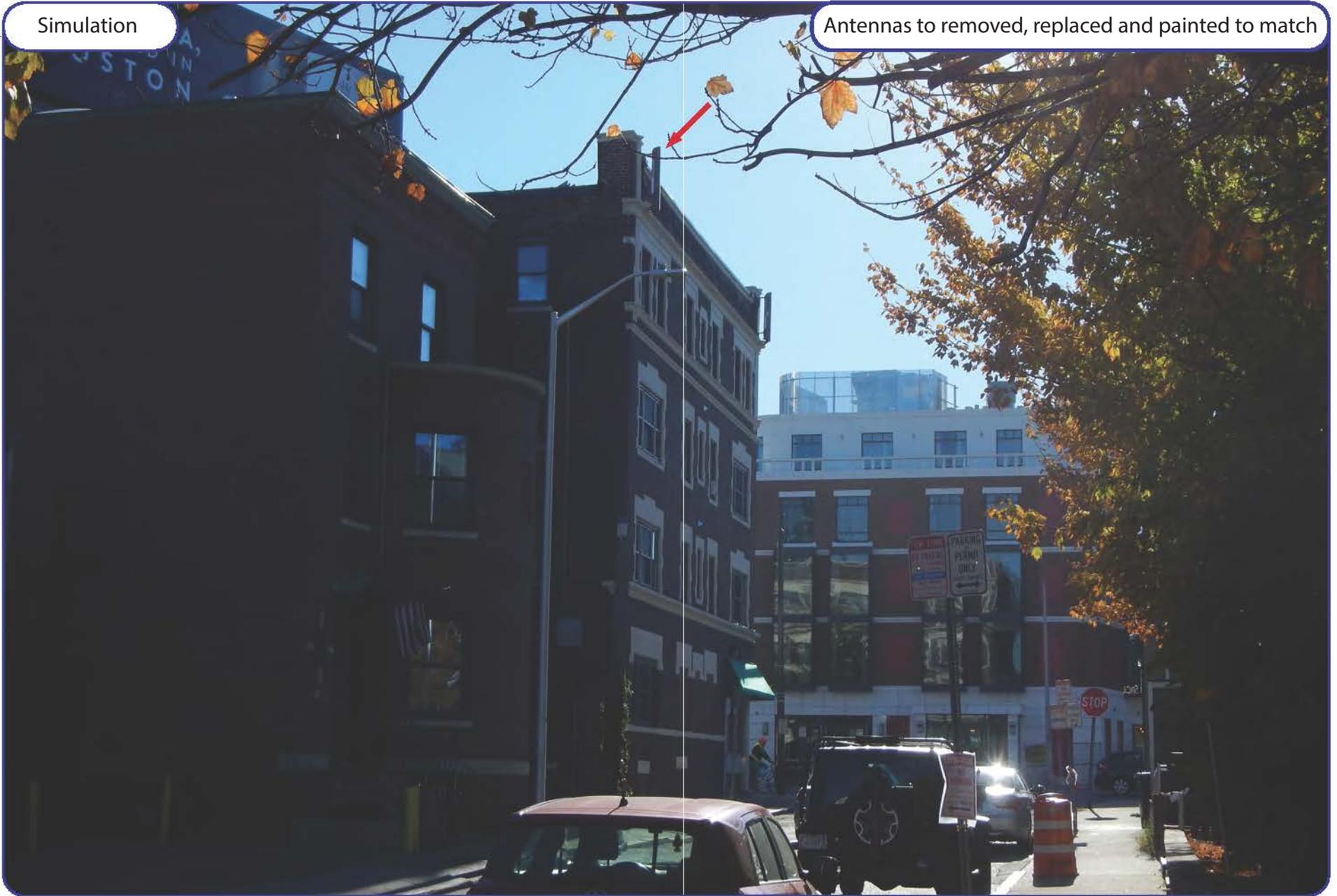


Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
3	Davenport St.	42.38986 -71.11935	+/- 0.04 Miles	North West	226.88	Year Round

Site: **4DE7032A -BO0032 Mass Ave**

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



Existing



Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
4	White St.	42.38928 -71.11794	+/- 0.09 Miles	West	269.23	Year Round

Site: **4DE7032A -BO0032 Mass Ave**

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



Simulation

Antennas to removed, replaced and painted to match



Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
4	White St.	42.38928 -71.11794	+/- 0.09 Miles	West	269.23	Year Round

Site: **4DE7032A -BO0032 Mass Ave**

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



5



Universal Licensing System

[FCC](#) > [WTB](#) > [ULS](#) > [Online Systems](#) > License Search

[FCC Site Map](#)

ULS License

AWS (1710-1755 MHz and 2110-2155 MHz) License - WQPG202 [?] HELP - T-Mobile License LLC

[New Search](#) [Refine Search](#) [Return to Results](#) [Printable Page](#) [Reference Copy](#)

MAIN	ADMIN	MARKET	MAP
Call Sign	WQPG202	Radio Service	AW - AWS (1710-1755 MHz and 2110-2155 MHz)
Status	Active	Auth Type	Regular
Market			
Market	BEA003 - Boston-Worcester-Lawrence-Lowell-Brockton, MA-NH-RI-VT	Channel Block	C
Submarket	4	Associated Frequencies (MHz)	001730.00000000-001735.00000000-002130.00000000-002135.00000000

Dates

Grant	04/18/2012	Expiration	11/29/2021
Effective	04/18/2012	Cancellation	

Buildout Deadlines

1st 2nd

Notification Dates

1st 2nd

Licensee

FRN	0001565449 (View Ownership Filing)	Type	Limited Liability Company
-----	---	------	---------------------------

Licensee

T-Mobile License LLC 12920 SE 38th Street Bellevue, WA 98006 ATTN Dan Menser	P:(425)383-4000 F:(425)383-4840 E:fccregulatorycompliancecontact@t-mobile.com
---	---

Contact

Wiley Rein LLP 1776 K Street, NW Washington, DC 20006 ATTN Nancy J. Victory	P:(202)719-7344 F:(202)719-7049 E:nvictory@wileyrein.com
--	--

Ownership and Qualifications

Radio Service Type Mobile
Regulatory Status Common Carrier Interconnected Yes

Alien Ownership

Is the applicant a foreign government or the representative of any foreign government? No

Is the applicant an alien or the representative of an alien? No

Is the applicant a corporation organized under the laws of any foreign government? No

Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country? No

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? Yes

The Alien Ruling question is not answered.

Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

Demographics

Race

Ethnicity

Gender

ULS Help ULS Glossary - FAQ - Online Help - Technical Support - Licensing Support

ULS Online Systems CORES - ULS Online Filing - License Search - Application Search - Archive License Search

About ULS Privacy Statement - About ULS - ULS Home

Basic Search

By Call Sign [dropdown] = [input] [SEARCH button]

ULS License

Local Multipoint Distribution Service License - WQPD278 - T-Mobile License LLC

Call Sign	WQPD278	Radio Service	LD - Local Multipoint Distribution Service
Status	Active	Auth Type	Regular
Market			
Market	BTA051 - Boston, MA	Channel Block	A
Submarket	2	Associated Frequencies (MHz)	027500.00000000-028350.00000000-029100.00000000-029250.00000000-031075.00000000-031225.00000000

Dates

Grant	02/15/2012	Expiration	10/06/2018
Effective	12/30/2013	Cancellation	

Buildout Deadlines

1st	2nd
-----	-----

Notification Dates

1st	2nd
-----	-----

Licensee

FRN	0001565449	Type	Limited Liability Company
-----	------------	------	---------------------------

Licensee

T-Mobile License LLC 12920 SE 38th Street Bellevue, WA 98006 ATTN FCC Regulatory Compliance	P:(425)383-8401 F:(425)383-4840 E:FCCregulatorycompliancecontact@t-mobile.com
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Contact

T-Mobile License LLC 12920 SE 38th Street Bellevue, WA 98006 ATTN Shannon Kraus	P:(425)383-5178 F:(425)383-4840 E:shannon.reilly@t-mobile.com
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Ownership and Qualifications

Radio Service Type	Fixed
Regulatory Status	Common Carrier, Interconnected Non-Common Carrier No

Alien Ownership

Is the applicant a foreign government or the representative of any foreign government?	No
Is the applicant an alien or the representative of an alien?	No

Is the applicant a corporation organized under the laws of any foreign government? No

Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country? Yes

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? Yes

If the answer to the above question is 'Yes', has the applicant received a ruling(s) under Section 310(b)(4) of the Communications Act with respect to the same radio service involved in this application? Yes

Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

Demographics

Race

Ethnicity

Gender

ULS License

PCS Broadband License - KNLH310 - T-Mobile License LLC

Call Sign	KNLH310	Radio Service	CW - PCS Broadband
Status	Active	Auth Type	Regular
Market			
Market	BTA051 - Boston, MA	Channel Block	E
Submarket	0	Associated Frequencies (MHz)	001885.00000000- 001890.00000000- 001965.00000000- 001970.00000000

Dates

Grant	06/08/2017	Expiration	06/27/2027
Effective	06/08/2017	Cancellation	

Buildout Deadlines

1st	06/27/2002	2nd	
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Notification Dates

1st	04/01/1999	2nd	
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Licensee

FRN	0001565449	Type	Limited Liability Company
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Licensee

T-Mobile License LLC 12920 S.E. 38th Street Bellevue, WA 98006 ATTN FCC Regulatory Compliance	P:(425)383-8401 E:FCCRegulatoryComplianceContact@t-mobile.com
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Contact

T-Mobile License LLC FCC REGULATORY COMPLIANCE 12920 S.E. 38th Street Bellevue, WA 98006 ATTN FCC Regulatory	P:(425)383-8401 E:FCCRegulatoryComplianceContact@t-mobile.com
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Ownership and Qualifications

Radio Service Type	Fixed, Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

Alien Ownership

Is the applicant a foreign government or the representative of any foreign government?	No
Is the applicant an alien or the representative of an alien?	No
Is the applicant a corporation organized under the laws of any foreign government?	No
Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	No

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? **Yes**

If the answer to the above question is 'Yes', has the applicant received a ruling(s) under Section 310(b)(4) of the Communications Act with respect to the same radio service involved in this application? **Yes**

Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

Demographics

Race

Ethnicity

Gender

ULS License

PCS Broadband License - WPZY689 - T-Mobile License LLC

Call Sign	WPZY689	Radio Service	CW - PCS Broadband
Status	Active	Auth Type	Regular
Market			
Market	BTA051 - Boston, MA	Channel Block	C
Submarket	2	Associated Frequencies (MHz)	001895.00000000-001910.00000000-001975.00000000-001990.00000000

Dates

Grant	12/06/2016	Expiration	01/03/2027
Effective	12/06/2016	Cancellation	

Buildout Deadlines

1st	12/07/2003	2nd	01/03/2007
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Notification Dates

1st	01/30/2002	2nd	12/22/2006
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Licensee

FRN	0001565449	Type	Limited Liability Company
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Licensee

T-Mobile License LLC 12920 SE 38th Street Bellevue, WA 98006 ATTN FCC Regulatory Compliance	P:(425)383-8401 F:(425)383-4840 E:FCCregulatorycompliancecontact@t-mobile.com
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Contact

T-Mobile License LLC 12920 SE 38th ST. Bellevue, WA 98006 ATTN FCC Regulatory Comp	P:(425)383-8401 F:(703)584-8696 E:fccregulatorycompliancecontact@t-mobile.com
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Ownership and Qualifications

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

Alien Ownership

Is the applicant a foreign government or the representative of any foreign government?	No
Is the applicant an alien or the representative of an alien?	No
Is the applicant a corporation organized under the laws of any foreign government?	No
Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	No

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? **Yes**

The Applicant has received a declaratory ruling(s) approving its foreign ownership, and the application involves only the acquisition of additional spectrum for the provision of a wireless service in a geographic coverage area for which the Applicant has been previously authorized. ✓

Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

Demographics

Race

Ethnicity

Gender

ULS License

AWS (1710-1755 MHz and 2110-2155 MHz) License - WQGA731 - T-Mobile License LLC

Call Sign	WQGA731	Radio Service	AW - AWS (1710-1755 MHz and 2110-2155 MHz)
Status	Active	Auth Type	Regular
Market			
Market	REA001 - Northeast	Channel Block	D
Submarket	1	Associated Frequencies (MHz)	001735.00000000-001740.00000000-002135.00000000-002140.00000000

Dates

Grant	11/29/2006	Expiration	11/29/2021
Effective	12/10/2015	Cancellation	

Buildout Deadlines

1st	2nd
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Notification Dates

1st	2nd
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Licensee

FRN	0001565449	Type	Limited Liability Company
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Licensee

T-Mobile License LLC 12920 SE 38th Street Bellevue, WA 98006 ATTN FCC Regulatory Compliance	P:(425)383-8401 F:(425)383-4840 E:FCCregulatorycompliancecontact@t-mobile.com
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Contact

T-Mobile License LLC 12920 SE 38th Street Bellevue, WA 98006 ATTN FCC Regulatory Compliance	P:(425)383-8401 F:(425)383-4840 E:FCCregulatorycompliancecontact@t-mobile.com
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Ownership and Qualifications

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

Alien Ownership

Is the applicant a foreign government or the representative of any foreign government?	No
Is the applicant an alien or the representative of an alien?	No
Is the applicant a corporation organized under the laws of any foreign government?	No
Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their	Yes

representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? **Yes**

If the answer to the above question is 'Yes', has the applicant received a ruling(s) under Section 310(b)(4) of the Communications Act with respect to the same radio service involved in this application? **Yes**

Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

Demographics

Race

Ethnicity

Gender

ULS License

AWS (1710-1755 MHz and 2110-2155 MHz) License - WQGB373 - T-Mobile License LLC

Call Sign	WQGB373	Radio Service	AW - AWS (1710-1755 MHz and 2110-2155 MHz)
Status	Active	Auth Type	Regular
Market			
Market	REA001 - Northeast	Channel Block	E
Submarket	1	Associated Frequencies (MHz)	001740.00000000- 001745.00000000 002140.00000000- 002145.00000000

Dates

Grant	11/29/2006	Expiration	11/29/2021
Effective	06/26/2012	Cancellation	

Buildout Deadlines

1st	2nd
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Notification Dates

1st	2nd
-----	-----

Licensee

FRN	0001565449	Type	Limited Liability Company
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Licensee

T-Mobile License LLC 12920 SE 38th St. Bellevue, WA 98006 ATTN Dan Menser	P:(425)383-4000 F:(425)378-4040 E:FCCRegulatoryComplianceContact@t-mobile.com
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Contact

T-Mobile License LLC Kathleen O Ham 12920 SE 38th St. Bellevue, WA 98006 ATTN Dan Menser	P:(425)383-4000 F:(202)654-5963 E:FCCRegulatoryComplianceContact@t-mobile.com
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Ownership and Qualifications

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

Alien Ownership

Is the applicant a foreign government or the representative of any foreign government?	No
Is the applicant an alien or the representative of an alien?	No
Is the applicant a corporation organized under the laws of any foreign government?	No
Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their	No

representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? **Yes**

The Alien Ruling question is not answered.

Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

Demographics

Race

Ethnicity

Gender

ULS License

700 MHz Lower Band (Blocks A, B & E) License - WQIZ578 - T-Mobile License LLC

Call Sign	WQIZ578	Radio Service	WY - 700 MHz Lower Band (Blocks A, B & E)
Status	Active	Auth Type	Regular
Market			
Market	BEA003 - Boston-Worcester-Lawrence-Lowell-Brockton, MA-NH-RI-VT	Channel Block	A
Submarket	0	Associated Frequencies (MHz)	000698.00000000-000704.00000000-000728.00000000-000734.00000000

Dates

Grant	06/26/2008	Expiration	06/13/2019
Effective	12/02/2013	Cancellation	

Buildout Deadlines

1st	2nd	06/13/2019
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Notification Dates

1st	2nd
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Licensee

FRN	0001565449	Type	Limited Liability Company
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Licensee

T-Mobile License LLC 12920 SE 38th Street Bellevue, WA 98006 ATTN FCC Regulatory Compliance	P:(425)383-8401 F:(425)383-4840 E:FCCregulatorycompliancecontact@t-mobile.com
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Contact

T-Mobile License LLC Shannon Kraus 12920 SE 38th Street Bellevue, WA 98006 ATTN Shannon Kraus	P:(425)383-5178 F:(425)383-4840 E:shannon.reilly@t-mobile.com
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Ownership and Qualifications

Radio Service Type	Fixed, Mobile
Regulatory Status	Common Carrier Interconnected Yes

Alien Ownership

Is the applicant a foreign government or the representative of any foreign government?	No
Is the applicant an alien or the representative of an alien?	No
Is the applicant a corporation organized under the laws of any foreign government?	No

Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country? **Yes**

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? **Yes**

If the answer to the above question is 'Yes', has the applicant received a ruling(s) under Section 310(b)(4) of the Communications Act with respect to the same radio service involved in this application? **Yes**

Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

Demographics

Race

Ethnicity

Gender

6

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Official Receipt for Recording in:

Middlesex South Registry of Deeds
208 Cambridge St.

Cambridge, Massachusetts 02141

Issued To:

WELLMAN ASSOCIATES INC
PO BOX 176

ORANGE MA 01364

Recording Fees

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Document Description	Number	Book/Page	Recording Amount
DECIS	00024455	63316 44	\$75.00

			\$75.00

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Collected Amounts

-----*

Payment Type	Amount
Check	5338

	\$75.00

-----*

Total Received : \$75.00
Less Total Recordings: \$75.00

Change Due : \$.00

Thank You
MARIA C. CURTATONE - Register of Deeds

By: Odnah M

Receipt# Date Time
1672712 02/27/2014 03:09p

Wellman Assoc. Inc.
PO Box 176
Orange, MA 01364



City of Cambridge

MASSACHUSETTS

2014 00024455
Bk: 63316 Pg: 44 Doc: DECIS
Page: 1 of 4 02/27/2014 03:09 PM

BOARD OF ZONING APPEAL

831 Mass Avenue, Cambridge, MA
(617) 349-6100

2014 JAN 29 AM 11 52

OFFICE OF THE CITY CLERK
CAMBRIDGE, MASSACHUSETTS

CASE NO: BZA-002554-2013

LOCATION: 1925 Mass Avenue Business C Zone
Cambridge, MA

PETITIONER: Wellman Associates, Inc.
C/o T-Mobile Northeast, LLC - C/o Peter Cooke

PETITION: Special Permit: To replace existing 6 antennas with new antennas; addition of 1 pipe mast antennas mounted to equipment platform adjacent to existing antenna at that location and 1 antennas mounted on a chimney adjacent to existing antenna for a total of 8 antennas and in-kind replacement of 1 existing cabinet with a cabinet of similar size. All antennas mounted to the building will be painted to match façade of building.

VIOLATION: Art. 4.000, Sec. 4.32.G.1 (Telecommunication Facility).
Art. 4.000, Sec. 4.10 (Footnote 49) (Telecomm Facility).
Art. 10.000, Sec. 10.40 (Special Permit).

DATE OF PUBLIC NOTICE: November 21 & 28, 2013

DATE OF PUBLIC HEARING: December 5, 2014

MEMBERS OF THE BOARD:

CONSTANTINE ALEXANDER - CHAIR	<input checked="" type="checkbox"/>
TIMOTHY HUGHES - VICE-CHAIR	<input checked="" type="checkbox"/>
BRENDAN SULLIVAN	<input checked="" type="checkbox"/>
THOMAS SCOTT	<input type="checkbox"/>
JANET O. GREEN	<input checked="" type="checkbox"/>

ASSOCIATE MEMBERS:

DOUGLAS MYERS	<input checked="" type="checkbox"/>
SLATER W. ANDERSON	<input type="checkbox"/>
LINDSEY T. THORNE-BINGHAM	<input type="checkbox"/>
ANDREA A. HICKEY	<input type="checkbox"/>

Members of the Board of Zoning Appeal heard testimony and viewed materials submitted regarding the above request for relief from the requirements of the Cambridge Zoning Ordinance. The Board is familiar with the location of the petitioner's property, the layout and other characteristics as well as the surrounding district.

owner of record; 1925 Mass Ave LLC
BA 57277 Pg496

Case No. BZA-002554-2013
Location: 1925 Massachusetts Avenue
Petitioner: Wellman Associates, Inc – c/o Peter Cooke, for T-Mobile Northeast

On December 5, 2013, Petitioner's attorney Ricardo Sousa appeared before the Board of Zoning Appeal requesting a special permit in order to replace six existing antennas with new antennas, to add one pipe mast antenna mounted to an equipment platform adjacent to the existing antenna at that location, to add one antenna mounted on a chimney adjacent to the existing antenna, for a total of eight antennas, where the antennas mounted to the building will be painted to match the façade of building, and to replace one existing cabinet with a cabinet of a similar size. The Petitioner requested relief from Article 4, Section 4.32.G.1 of the Cambridge Zoning Ordinance ("Ordinance"). The Petitioner submitted application materials including information about the project, plans, and photographs.

Mr. Sousa stated that as part of a system wide upgrade, the Petitioner wished to replace six antennas and add two more, as well as upgrade a cabinet, at the existing wireless installation at the address. He stated that the façade mounted antennas would be mounted on low profile brackets and would be painted to match the building.

The Chair asked if anyone wished to be heard, no one indicated such. The Chair read a letter of support from the Planning Board.

After discussion, the Chair moved that the Board grant the special permit for relief in order to replace six existing antennas with new antennas, to add one pipe mast antenna mounted to an equipment platform adjacent to the existing antenna at that location, to add one antenna mounted on a chimney adjacent to the existing antenna, for a total of eight antennas, where the antennas mounted to the building will be painted to match the façade of building, and to replace one existing cabinet with a cabinet of a similar size based on the finding that the Petitioner was a duly licensed FCC carrier in good standing. The Chair moved that the Board find that the Petitioner had taken steps to not increase the visual chaos that existed on the structure. The Chair moved that the Board find that the proposed installation would not cause congestion, hazard, or substantial change in established neighborhood character and would not adversely affect the development of adjacent uses. The Chair moved that the Board find that the proposed installation would not create any nuisance or hazard to the detriment of the health, safety, and/or welfare of the occupant of the proposed use or the citizens of the city. The Chair moved that the Board find that the proposed use would not impair the integrity of the district or adjoining district or otherwise derogate from the intent and the purpose of the Ordinance. The Chair moved that the Board grant the

Special Permit on the following conditions:

1. that the work proceed and be in accordance with the photo simulations submitted by the Petitioner, prepared by Caron and Associates Design, dated 9/23/2013, as initialed by the Chair,
2. that the work proceed in accordance with the plans submitted by the Petitioner, prepared by Turning Mill Consultants, Inc., dated September 23rd, 2013, as initialed by the Chair, except that the structure be painted a solid color to match the brick as opposed to the simulated brick surface shown in the plans,
3. that the Petitioner maintain the installation as shown in the photo simulations and should that appearance deteriorate or otherwise not be what is represented, repairs be made, and
4. that should the additional antennas not be used for a period of six months, they be promptly removed and the building be restored to its prior condition to the extent practical under the circumstances.

The five member Board voted unanimously in favor of granting the special permit (Alexander, Hughes, Sullivan, Green, and Myers) as conditioned. Therefore, the special permit is granted.

The Board based its decision upon all the information presented, the above findings and upon the following:

- 1) The meeting of the requirements of the Ordinance;
- 2) Traffic generated or patterns of access or egress would not cause congestion, hazard, or substantial change in the established neighborhood character;
- 3) The continued operation of or the development of adjacent uses as permitted in the Ordinance would not be adversely affected by the nature of the proposed uses;
- 4) Nuisance or hazard would not be created to the detriment of the health, safety and /or welfare of the occupants of the proposed use;
- 5) The proposed use would not impair the integrity of the district or adjoining district or otherwise derogate from the Ordinance, and in fact would be a significant improvement to the structure and benefit the neighborhood, and;
- 6) The new use or building construction is not inconsistent with the Urban Design Objectives set forth in Section 19.30 of the Cambridge Zoning Ordinance.

The Board of Zoning Appeal is empowered to waive local zoning regulations only. This decision therefore does not relieve the petitioner in any way from the duty to comply with local ordinances and regulations of the other local agencies, including, but not limited to the Historical Commission, License Commission and/or compliance with requirements pursuant to the Building Code and other applicable codes.

Constantine Alexander, Chair

Attest: A true and correct copy of decision filed with the offices of the City Clerk and Planning Board on 1-29-14 by Marie [Signature], Clerk.

Twenty days have elapsed since the filing of this decision.

No appeal has been filed ✓.

Appeal has been filed and dismissed or denied.

Date: FEB. 27, 2014 Ronna P. Kopy City Clerk.

7

November 20, 2017

VIA HAND DELIVERY

Ranjit Singanayagam
Commissioner of Inspectional Services/Building Commissioner
City of Cambridge
831 Massachusetts Avenue
Cambridge, MA 02139

Re: Eligible Facilities Request to Modify Transmission Equipment at an Existing Base Station located at **1923-1925 Massachusetts Ave, Cambridge, MA 02140.**

Dear Mr. Singanayagam:

A. T-Mobile is Filing an Eligible Facilities Request

Prince Lobel Tye LLP, on behalf of T-Mobile Northeast LLC is submitting the attached Eligible Facilities Request application to add, remove, modify, or replace Transmission Equipment at an Existing Base Station located at 1923-1925 Massachusetts Ave, Cambridge, MA 02140.

Because this jurisdiction has not yet developed an Eligible Facilities Request permit application form that complies with Section 6409 of the Middle Class Tax Relief and Job Creation Act of 2012, commonly known as the "Spectrum Act" (Pub. Law No. 112-96, 126 Stat 156) (codified at 47 U.S.C. § 1455), this Eligible Facilities Request is attached to the Building Permit Application form which was customarily used by this jurisdiction when reviewing requests to collocate or modify wireless telecommunications facilities. Because federal law now preempts many of the permit application requirements that this jurisdiction would previously have required from an applicant, this Eligible Facilities Request application provides only the information that federal law allows this jurisdiction to consider when reviewing an Eligible Facilities Request.

Section 6409(a) of the Spectrum Act mandates that state and local governments "*may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station.*" Under Section 6409(a)(2)(A)-(C) an Eligible Facilities Request is any request to modify a Tower or Base Station that involves "collocations of new Transmission Equipment," "removal," or "replacement" of Transmission Equipment.

Prince Lobel Tye LLP
One International Place
Suite 3700
Boston, MA 02110
TEL: 617 456 8000
FAX: 617 456 8100

B. Why this Eligible Facilities Request Must Be Granted

This Eligible Facilities Request involves an effort to collocate, remove, modify, or replace Transmission Equipment at an existing Base Station operated by an FCC licensed wireless carrier. The FCC has defined Base Station as “the equipment and non-tower supporting structure at a fixed location that enable Commission-licensed or authorized wireless communications between user equipment and a communications network . . . the term includes equipment associated with wireless communications service including, but not limited to, radio transceivers, antennas, coaxial or fiber-optic cable, regular and backup power supply, and comparable equipment.” The term existing base station also includes a structure that currently houses or supports an antenna, transceiver or other associated equipment that constitutes part of a Base Station at the time the application is filed even if the structure was not built solely or primarily to provide such support. The existing Base Station in this application is approximately sixty two feet (55’) high and presently contains wireless facilities. The existing Base Station meets the Federal Communications Commission (“FCC”) definition of a Base Station.

The list of equipment identified in the Eligible Facilities Request application that will be collocated, removed, or replaced at the Base Station also is Transmission Equipment as determined by the FCC. The FCC has defined Transmission Equipment as “any equipment that facilitates transmission for any Commission-licensed or authorized wireless communication service, including, but not limited to, radio transceivers, antennas and other relevant equipment associated with and necessary to their operation, including coaxial or fiber-optic cable, and regular and back-up power supply. This definition includes equipment used in any technological configuration associated with any Commission-authorized wireless transmission, licensed or unlicensed, terrestrial or satellite, including commercial mobile, private mobile, broadcast and public safety services, as well as fixed wireless services such as microwave backhaul or fixed broadband.”

The FCC, in a Report and Order adopted on October 17, 2014, determined that any modification to an existing telecommunications Base Station that meets the following six criteria does not substantially change the physical dimensions of the existing Base Station and therefore is an Eligible Facilities Request which must be granted:

1. *The modifications to the Transmission Equipment do not increase the height of the Base Station by more than 10 percent (10%) or ten (10) feet, whichever is greater.*
 - a. The height of the Base Station is approximately forty four feet (55’) high. The proposed replacement of four (4) panel antennas will not increase the height of the Base Station by more than ten feet (10’).
2. *The modifications to the Transmission Equipment do not protrude from the edge of the support structure by more than six (6) feet.*
 - a. The proposed antennas will not exceed the six (6) foot limitation.

3. *The modifications to the Transmission Equipment do not involve the installation of more than the standard number of equipment cabinets for the technology involved, not to exceed four.*
 - a. The Applicant does not propose to install any additional equipment cabinets.
4. *The modifications to the Transmission Equipment do not entail any excavation or deployment outside of the Base Station site.*
 - a. There will be no excavation or deployment outside of the Base Station site.
5. *The modifications to the Transmission Equipment do not defeat any existing concealed or stealth-design.*
 - a. Pursuant to the original decision by the Zoning Board of Appeal for the City of Cambridge (the “Board”) for this Facility, dated January 29, 2014 (Case No. 002554) (the “Decision”), attached hereto, the existing antennas are located in the preferred location on the building and comply with the required conditions for a stealth design. The upgrade of this facility with the proposal to modify its existing wireless facility currently operating on the rooftop of the Building by replacing four (4) existing antennas with four (4) new antennas. The antennas mounted to the building will be painted to match the façade of the building. All proposed antennas and equipment will be integrated into the existing building to the extent possible. As such, the proposed modification will not defeat any existing concealed or stealth design.
6. *The modifications to the Transmission Equipment comply with prior conditions of approval of the Base Station, unless the non-compliance is due to an increase in height, increase in width, addition of equipment cabinets, or new excavation that does not exceed the corresponding “substantial change” thresholds in numbers 1-4.*
 - a. Based on the foregoing, the proposed modifications to the Base Station fully conform to Section 6409(a) of the Spectrum Act and comply with the prior conditions of approval of the Base Station.

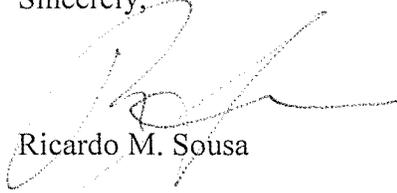
There is a certification attached to the accompanying Eligible Facilities Request that identifies how each of the six review criteria identified by the FCC is met. The modifications to the Transmission Equipment at the Base Station located at 1923-1925 Massachusetts Ave, Cambridge, MA 02140 contained in this Eligible Facilities Request fully conform to Section 6409(a) as enacted by Congress and as interpreted by the FCC. Accordingly, this Eligible Facilities Request must be approved within 60 days, as required by federal law and FCC implementing regulations.

C. Notice of Federal Law Expedited Permit Processing and Deemed Granted

Under federal law, an Eligible Facilities Request is deemed granted sixty (60) days after a complete application is filed with a local jurisdiction. If sixty days pass after the submission of T-Mobile's accompanying Eligible Facilities Request and the City of Cambridge has not acted to grant or deny the request, it will be deemed granted. At that time, the applicant may advise the City of Cambridge that the application has been deemed granted. If the City of Cambridge wishes to contest whether the Eligible Facilities Request has been deemed granted, the burden is on the City of Cambridge to file a lawsuit in a court of competent jurisdiction within 30 days after receipt of a written communication notifying it that the Eligible Facilities Request has been deemed granted. Failure to file a lawsuit in a timely manner may forever bar this jurisdiction from contesting that this Eligible Facilities Request has been deemed granted.

T-Mobile is committed to working cooperatively with you, and all jurisdictions around the country, to secure expeditious approval of requests to modify existing personal wireless service facilities. Please do not hesitate to contact me if you have questions.

Sincerely,



Ricardo M. Sousa

Direct: 617-456-8123

Email: rsousa@princelobel.com

**ELIGIBLE FACILITIES REQUEST CERTIFICATION FOR NON-SUBSTANTIAL
CHANGES
TO AN EXISTING BASE STATION**

“Base Station” means the equipment and non-tower supporting structure at a fixed location that allow Commission-licensed or authorized wireless communications between user equipment and a communications network. The term base station includes any equipment associated with wireless communications services including but not limited to radio transceivers, antennas, coaxial or fiber-optic cables, regular or back up power supply, and comparable equipment. The term existing base station also includes a structure that currently houses or supports an antenna, transceiver or other associated equipment that constitutes part of a base station at the time the application is filed even if the structure was not built solely or primarily to provide such support. “Base Station” includes the relevant equipment in any technological configuration, including small cells and DAS. Remember “Base Station” has two separate meanings: (1) the supporting structure that houses FCC licensed or authorized wireless equipment and (2) the wireless equipment itself. Keep this distinction in mind when calculating a substantial change in physical dimensions.

“Transmission Equipment” means any equipment that facilitates transmission for any FCC licensed or authorized wireless communication service, including but not limited to, radio transceivers, antennas and other relevant equipment associated with and necessary to their operation, including coaxial or fiber-optic cable, and regular and back-up power supply. This definition includes equipment used in any technological configuration associated with any Commission-authorized wireless transmission, licensed or unlicensed, terrestrial or satellite, including commercial mobile, private mobile, broadcast and public safety services, as well as fixed wireless services such as microwave backhaul or fixed broadband.

“Collocation” means the addition, removal or replacement of Transmission Equipment to an existing tower or a base station. This means that the existing support structure, be it a tower or a building or some other structure, must presently support FCC licensed or authorized wireless facilities. The FCC further requires that the site (tower, building, or other structure) was previously approved by the appropriate agency of government to house wireless facilities. Illegal wireless installations cannot be the basis for an eligible facilities request. However, if a communications Tower was erected at a time when it was exempt from zoning, the Tower can be modified through the Eligible Facilities Request process even if the Tower is no longer exempt from zoning.

Site Address: 1923-1925 Massachusetts Ave

Existing Facilities

The Existing Facility is comprised of eight (8) panel antennas mounted to the roof and the façade of the existing building, together with supporting equipment.

Height of Base Station

Height above ground level of the tallest point on the existing base station: 55' (feet)

Height above ground level of the tallest point of the existing base station after the installation of the *proposed* equipment: 55'(feet)

- 1) Does the height above ground level of the proposed equipment exceed the height of the tallest point on the existing base station by more than 10 percent (10%) or ten (10) feet, whichever is greater?

Yes No

Width of Base Station

- 2) Will any of the proposed equipment protrude from the edge of the support structure by more than six (6) feet?

Yes No

Excavation or Equipment Placement

- 3) Will the proposed changes in Transmission Equipment involve excavation or placement of new equipment outside the existing Base Station site or outside any access or utility easements currently related to the site?

Yes No

Equipment Cabinets

- 4) Will the proposed modification in Transmission Equipment involve installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four?

Yes No

Concealed or Stealth-Designed Wireless Facilities

5)

- a) Is the existing wireless facility concealed or stealth- designed?

Yes No

- b) If the answer to 5a) is "Yes," will the proposed modification in Transmission Equipment defeat the existing concealed or stealth-design?

Yes No

Compliance with Preexisting Conditions of Approval for the Base Station

6)

- a) Were there any conditions of approval stated in the original government approval of the Base Station?

Yes No

- b) Will the proposed modification in Transmission Equipment comply with conditions of approval imposed on the Base Station prior to February 22, 2012?

Yes No

- c) If the answer to 6b) is “No,” is the non-compliance due solely to any of the conditions addressed in Questions 1-5 above?

Yes No

If the answers to questions 1-4 are “No,” the answer to either 5a) or b) is “No,” and the answers to 6a) is “No” or the answers to either 6b) or 6c) are “Yes,” then the proposed modifications do not substantially change the physical dimensions of the existing Base Station.

Explanatory Comments:

Question No. 5 (b)

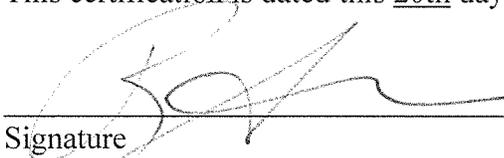
Comment: a. Pursuant to the original decision by the Zoning Board of Appeal for the City of Cambridge (the “Board”) for this Facility, dated January 29, 2014 (Case No. 002554) (the “Decision”), attached hereto, the existing antennas are located in the preferred location on the building and comply with the required conditions for a stealth design. The upgrade of this facility with the proposal to modify its existing wireless facility currently operating on the rooftop of the Building by replacing four (4) existing antennas with four (4) new antennas. The antennas mounted to the building will be painted to match the façade of the building. All proposed antennas and equipment will be integrated into the existing building to the extent possible. As such, the proposed modification will not defeat any existing concealed or stealth design.

Question No. 6 (c)

Comment: Notwithstanding the aforementioned showing that the proposed modification to this site does not substantially change the physical dimensions of the existing Base Station and is subject to the Spectrum Act, this site is the proper location for a wireless installation pursuant to the Decision. Furthermore, in the Decision the Board stated that continued operation of adjacent uses would not be adversely affected by the previously proposed equipment addition, and no nuisance or hazard would be created to the detriment of the health, safety or welfare of the

occupant or the citizens of the City of Cambridge. The proposed modification to this site is very similar to the previous modification approved by this board and as such, we submit will have the same de minimis impact. Moreover, the proposed installation is necessary to accommodate the existing and future customer base as demand for data and cell service has steadily increased and continues to do so.

This certification is dated this 20th day of November, 2017.



Signature

Ricardo M. Sousa, Esq., Attorney for Applicant
Name & Title

Eligible Facilities Request (EFR) Application Form

[Attach this EFR form to the local jurisdiction form used to process cell site modifications.]

Date of Submittal: _____

Submitted by:

Name: _____

Title: _____

Contact information: _____

Name of Jurisdiction: _____

Address of Jurisdiction: _____

Contact Name for Jurisdiction: _____

Name of Local Government Permit Application: _____

Local Government File #: _____

Street Address of Site: _____

Tax Parcel # of Site: _____

Latitude/Longitude of Site: _____

List Each Piece of Transmission Equipment that will be Collocated or Added:

List Each Piece of Transmission Equipment that will be Removed:

List Cabinets that will be Collocated or Added at the Site:

List Cabinets that will be Removed at the Site:

Permit Application Deposit Amount: _____

Municipal Consultant Review Fee Deposit (if applicable): _____

THIS LICENSE TO BE USED FOR A

BUILDING PERMIT AT

Massachusetts Department of Public Safety
Board of Building Regulations and Standards

License: CS-081072

Construction Supervisor

1923-1925 MASS. AVE. CAMBRIDGE MA.

PETER R. MORO
49 5TH AVE EXT
BELLINGHAM MA 02018



FOR T-MOBILE SITE # 4DE7032A

Moro
Commissioner
ONLY

Expiration:
03/16/2018

Construction Supervisor
Restricted to:
INCLUDE CENTERLINE COMMUNICATIONS
Unrestricted - Buildings of any use group which contain
less than 5,000 cubic feet (101 cubic meters) of
enclosed space.

ON PERMIT

Peter Moro 5/30/14

Failure to possess a current edition of the Massachusetts
State Building Code is cause for revocation of this license.
DPS Licensing information visit: WWW.MASS.GOV/DPS



The Commonwealth of Massachusetts
 Department of Industrial Accidents
 Office of Investigations
 600 Washington Street
 Boston, MA 02111
 www.mass.gov/dia

Workers' Compensation Insurance Affidavit: Builders/Contractors/Electricians/Plumbers
Applicant Information **Please Print Legibly**

Name (Business/Organization/Individual): Centerline Communications LLC

Address: 95 Ryan drive Suite 1

City/State/Zip: Raynham Ma Phone #: 781-713-4725

Are you an employer? Check the appropriate box:

- | | |
|---|--|
| <p>1. <input checked="" type="checkbox"/> I am an employer with <u>150</u> employees (full and/or part-time).*</p> <p>2. <input type="checkbox"/> I am a sole proprietor or partnership and have no employees working for me in any capacity. [No workers' comp. insurance required.]</p> <p>3. <input type="checkbox"/> I am a homeowner doing all work myself. [No workers' comp. insurance required.]†</p> | <p>4. <input type="checkbox"/> I am a general contractor and I have hired the sub-contractors listed on the attached sheet. These sub-contractors have employees and have workers' comp. insurance.‡</p> <p>5. <input type="checkbox"/> We are a corporation and its officers have exercised their right of exemption per MGL c. 152, §1(4), and we have no employees. [No workers' comp. insurance required.]</p> |
|---|--|

Type of project (required):

6. New construction
 7. Remodeling
 8. Demolition
 9. Building addition
 10. Electrical repairs or additions
 11. Plumbing repairs or additions
 12. Roof repairs
 13. Other TELECOMMUNICATION

*Any applicant that checks box # 1 must also fill out the section below showing their workers' compensation policy information.

† Homeowners who submit this affidavit indicating they are doing all work and then hire outside contractors must submit a new affidavit indicating such.

‡ Contractors that check this box must attached an additional sheet showing the name of the sub-contractors and state whether or not those entities have employees. If the sub-contractors have employees, they must provide their workers' comp. policy number

I am an employer that is providing workers' compensation insurance for my employees. Below is the policy and job site information.

Insurance Company Name: Travelers Indemnity Co of America

Policy # or Self-ins. Lic. #: Ub-9F693164-17 Expiration Date 01/01/2018

Job Site Address City/State/Zip: 1923-1925 MASS AVE. CAMBRIDGE MA 02140

Attach a copy of the workers' compensation policy declaration page (showing the policy number and expiration date). Failure to secure coverage as required under Section 25A of MGL c. 152 can lead to the imposition of criminal penalties of a fine up to \$1,500.00 and/or one-year imprisonment, as well as civil penalties in the form of a STOP WORK ORDER and a fine of up to \$250.00 a day against the violator. Be advised that a copy of this statement may be forwarded to the Office of Investigations of the DIA for insurance coverage verification

I do hereby certify under the pains and penalties of perjury that the information provided above is true and correct.

Signature: *Rita Yano* Date 5/30/2017

Phone #: 781-713-4725

Official use only. Do not write in this area, to be completed by city or town official.

City or Town: _____ Permit/License # _____

Issuing Authority (circle one):

1. Board of Health 2. Building Department 3. City/Town Clerk 4. Electrical Inspector 5. Plumbing Inspector
 6. Other _____

Contact Person: _____ Phone #: _____



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
10/5/2016

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Insurance Office of America, Inc. 854 Washington Street NW Suite 200 Gainesville GA 30501	CONTACT NAME: Josie Diette PHONE (A/C, No, Ext): 770-250-5317 E-MAIL ADDRESS: joselyne.diette@ioausa.com	FAX (A/C, No): 678-450-9180
	INSURER(S) AFFORDING COVERAGE	
INSURED Centerline Communications 95 Ryan Drive Suite 1 Raynham MA 02767	INSURER A: Harleysville Insurance Company	
	INSURER B: Nationwide Mutual Insurance Company	
	INSURER C: Scottsdale Insurance Company	
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES **CERTIFICATE NUMBER:** 1730065791 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER			MPA00000021186Y	9/16/2016	9/16/2017	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$500,000 MED EXP (Any one person) \$100,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 \$
A B A A A	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			BA00000022034Y - A/O ACP3007813772 - ID MT BA00000021187Y - MA BA00000022323Y - NY BA00000022369Y - VA BA1000003C4193 - CO KY WW	9/16/2016	9/16/2017	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$0			CMB00000021185Y	9/16/2016	9/16/2017	EACH OCCURRENCE \$1,000,000 AGGREGATE \$1,000,000 \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		Y/N N/A				<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E L EACH ACCIDENT \$ E L DISEASE - EA EMPLOYEE \$ E L DISEASE - POLICY LIMIT \$
C A	Excess Liability Installation Floater Leased/Rented Equipment			AXS0000904 IMHAR01	9/16/2016	9/16/2017	Limit 9,000,000 Limit 1,000,000 Limit 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

General Liability includes Blanket Additional Insured for on-going operations per CG7254 1210, primary & non-contributory per CG7356 1210, Blanket waiver of subrogation per CG7356 1210, blanket AI for completed operations per CG7265 1210*, and Per project aggregate CG7356 1210*. Auto Liability includes blanket additional insured and blanket waiver of subrogation*. Umbrella is follow form.
 *when required by written contract.

CERTIFICATE HOLDER Proof of Coverage	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE



INSPECTIONAL SERVICES DEPARTMENT

City of Cambridge • 831 Massachusetts Avenue • Cambridge, Massachusetts 02139

617-349-6100 • TTY 617-349-6112 • Fax 617-349-6132

Ranjit Singanayagam - Commissioner

Application for a PERMIT to Build, Alter, or Repair ANY BUILDING
(other than a 1 or 2 family Dwelling) in accordance with Massachusetts State Building Code 780 CMR (MSBC).
Application must be filled out COMPLETELY in ink.

Building Address 1923-1925 Massachusetts Avenue, Cambridge, MA	
Building Owner 1925 Mass Ave LLC	Phone # 857-998-0836
Owner Address 191 Lexington Avenue, Cambridge, MA 02138	
Contractor Centerline Communications	Phone # 781-713-4725
Contractor Address 95 Ryan Drive, Raynham, MA 02767	
Architect/Engineer Dewberry Engineers Inc.	Phone # 617-695-3400
Address 280 Summer Street, Boston, MA 02210	

TYPE OF WORK: New Construction	_____	Addition	_____	Change of Occupancy	_____
Repair	_____	Alteration Level 1	_____	Alter Level 2	_____
		Alter Level 3	_____	Roof	_____
Wireless Equipment Upgrade					

EXISTING BUILDING INFORMATION (Required - MSBC Ch. 34 Sec 101.5.4.0 Amended)

Current Use	Wireless Facility	Proposed Use	No Change
For Residential Use: Current number of dwelling units	_____	Proposed number of dwelling units	_____
Building Construction type:			
Non-Combustible (Type I/II)	<input checked="" type="checkbox"/>	Masonry/Wood (III)	_____
		Wood (IV,V)	_____
Building Equipped with : Sprinkler System: Yes / No Fire Alarm: Yes / No Smoke Detection: Yes / No			
Provide a description of the building: 4 story building			

Description of Proposed Work: Include effects of the proposed work on the structural, egress, fire protection, energy conservation, light, and ventilation systems of the space or building. Include any changes as listed in Zoning Information (pg 2).

Swap (4) existing AIR antennas with (4) Commscope antennas, install (4) new AIR32 antennas

Install (4) remote radio units (RRU's), install (4) 6x12 HCS cable

Note: 2 sets of construction documents, plus 1 set in digital format, required to be submitted for review.

ESTIMATED COST OF CONSTRUCTION:

Building	\$50,000	HVAC	_____
Electric	_____	Sprinklers	_____
Plumbing/Gas	_____	Fire Detection	_____
Gas Fitting	_____	Fire Suppression	_____

Total Estimated Cost of Construction \$50,000

Total Construction costs include all work done concurrently with the work contemplated by the Building Permit including demolition, plumbing, heating, electrical, air conditioning, painting, wall to wall carpeting, landscaping, site improvements, etc. Furnishings and portable equipment are not part of the total construction cost. A signed copy of contractor/client contract must be included with Application. A final cost affidavit completed by the owner will be required at construction completion for all projects (affidavit required for final sign-off).

ZONING INFORMATION (REQUIRED) The Applicant is responsible for proving Zoning compliance.

Current Use Wireless Proposed Use No Change Zone Business CBZA/PB Case # 002554-2013

For residential: Current number of dwelling units _____ Proposed number of dwelling units _____

Proposed work includes – reconstruction of an existing exterior building element (porch, deck, etc.). Provide recent photos of existing conditions, and fully dimensioned plans and elevations.

Proposed work includes - enclose a covered porch, build uncovered exterior stairs, build decks at the 1st floor level, build roof decks over existing 1st or 2nd floors, create new windows (including moving existing windows), doors, or skylights. Provide a stamped and scalable surveyor's plot plan, the height of the highest point of the roof, recent photos of existing conditions, and fully dimensioned plans and elevations. If Zoning Appeal case, include copy of registered decision.

Proposed work includes – new construction, additions, dormers, bays, balconies, covered stairs/landings and/or porches, decks at the 2nd floor level or higher, roof decks over the 3rd floor or higher, or to excavate a basement, change any floor or ceiling height, change the use or increase the number of dwelling units of a building, erect an outbuilding, or to do any similar work. Provide all previously listed documents, plus a comprehensive Zoning Analysis showing compliance with all aspects of the Cambridge Zoning Ordinances. If BZA or Planning Board case, include copy of registered decision.

None of the above. The proposed work is not of the types listed above and is not regulated by the Zoning Ordinance.

Certified Plot Plan: For new structures and additions, a certified plot plan shall be submitted after the foundation is poured and before further work commences.

Energy Conservation: Effective July 1, 2010, the City of Cambridge has adopted the Stretch Energy Code, 780 CMR115AA. The Stretch Code requirements are in addition to the requirements of the most recently published version of the ICC International Energy Conservation Code (IECC). Check all applicable:

- The proposed project is subject to Stretch Code and/or IECC provisions and documentation indicating compliance has been included with this application.
- The proposed work involves changes to the building lighting system and a Lighting Power Density Report has been included with this application.
- The proposed work does not access or affect the building energy envelop.

All Residential work requires a completed Energy Star Qualified Homes Thermal Bypass Inspection Checklist at final inspection. This form is available at www.energystar.gov or from the Building Official.

Fire Protection:

For proposed work that may include any fire protection work as regulated by MSBC Ch. 9 Fire Protection Systems, review and approval of the construction documents by the Cambridge Fire Department is required before submittal.

Camb. Fire Dept. has reviewed this application Yes / No

A Narrative Report describing all fire protection systems and their operation is required to be submitted with this application (Sec 902.1 #1a, MSBC Amended). **This report has been submitted Yes / No**

All Fire Protection design documents and calculations are required to be submitted as part of the Building Permit Application.

Noise Ordinance Affidavit

The undersigned as the Architect/Construction Supervisor for this proposed construction, do hereby certify knowledge of Chap 8.16 of the Cambridge Municipal Code concerning noise control.

I certify that necessary actions will be taken concerning the design, specification of, and location of noise producing equipment: e.g., transformers, air handling units, etc., to insure that this project will not result in noise levels that exceed that allowed by the Municipal Code.

Name Peter Moro Title Construction Supervisor

Signature  Registration/License # CS-081072

Please note that additional Mechanical Permits and Sheet Metal permits may be required for installation of any mechanical system. New rooftop units (including solar panels) require an existing building analysis by a Registered Structural Engineer for suitability of the installation.

CONSTRUCTION SERVICES (REQUIRED)

Any project proposed for any building over 35000 ft³ must meet the requirements of Sec.107.6 & Chapter 17, MSBC.

Architect / Registered Design Professional (Construction Control Sec 107, MSBC Amended)

Name Lui S. Puga Phone # _____
Firm Dewberry Engineers Inc. Cell Phone# 617-531-0807
Address 280 Summer Street, Boston, MA
MA Registration Number 51133 Email Address: lpuga@Dewberry.com

Application shall include signed and stamped letter from Registered Design Professional attesting to duties and obligations required by Sections 107.6 (Construction Control) and Chapter 17 (Structural Tests and Special Inspections) MSBC Amended. Application shall also include schedule of tests, inspections and observations as required by Section 1701.1.1 MSBC Amended.

Structural Peer Review (MSBC 780 CMR 105.9 Amended):

Is Independent Structural Engineering Peer Review required Yes _____ No x
If Yes, review must be submitted with application. Peer Review is required for high rise construction or buildings of unusual complexity as determined by the BBRs.

Read Before Signing: The undersigned hereby certifies that he/she has read and examined this application and that the proposed work subject to the provisions of the Massachusetts State Building Code and other applicable laws and ordinances is accurately represented in the statements made in this application and that the work shall be carried out in accordance with the foregoing statements and in compliance with the provisions of law and ordinance in force on the date of this application to the best of his/her ability.

Licensed Construction Supervisor

Name Centerline Communications, c/o Peter Moro Phone # 781-713-4725
Address 95 Ryan Drive, Raynham, MA 02767 Cell Phone # 508-989-1510
License Number CS-081072 Expiration Date 3/16/2018 Class Unrestricted
Signature Peter Moro Date 5/30/2017
Email Address pmoro@centerlinecommunications.com

Registered Home Improvement Contractor (required only for 3 or 4 family owner-occupied dwellings)

Name _____ Phone # _____
Address _____ Cell Phone # _____
Registration Number _____ Expiration Date _____
Signature _____ Date _____

Building Owner of Record (application must be signed by OWNER of Building)

Name 1925 Mass Ave LLC, c/o Eric Hoagland Phone # 857-998-0836
Address 191 Lexington Avenue, Cambridge, MA 02138
Signature See Letter of Authorization Date _____
Email Address ehoagie@gmail.com

Hold Harmless Clause: The Permittee(s) by acceptance of this permit agree(s) to indemnify and hold harmless the City of Cambridge, and its employees, from and against any and all claims, demands and actions for damages resulting from operations under this permit, regardless of negligence of the City of Cambridge, and its employees, are to assume the defense of the City of Cambridge, and its employees, against all claims, demands and actions.

PERMIT NO.

FEE

MASSACHUSETTS GENERAL LAW REQUIREMENTS

Workers Compensation Insurance Affidavit (MGL c. 152 §25C96)

A Certificate of Insurance indicating Worker's Compensation coverage or a completed Workers Compensation Insurance Affidavit must be submitted with this application. Failure to provide this affidavit will result in the denial of the issuance of the Building Permit. Failure to secure coverage as required under Section 25A of MGL c.152 can lead to imposition of a fine of up to \$1500.00 and/or one-year imprisonment, as well as civil penalties in the form of a STOP WORK ORDER and a fine of up to \$250.00 a day against the violator.

Signed Affidavit Attached Yes x No

Construction Debris Affidavit (MGL c 40 §54)

As result of the provisions of MGL c 40 §54, I acknowledge that as a condition of the Building Permit, all debris resulting from the construction activity governed by this Building Permit shall be disposed of in a properly licensed waste disposal facility, as defined by MGL c 111 §150A.

The debris will be disposed at/by 95 Ryan Dr Raynham Ma

Roll-Off Dumpster or Container? Yes No Specify Take Away Dumpster Permit #

Signature Pete Moore Date 5/30/17

I certify that I will notify the Building Official by Email (two months maximum) of the location of the solid waste disposal facility where the debris resulting from said construction activity shall be disposed of, and I shall submit the appropriate form for attachment to the Building Permit

Signature Pete Moore Date 5/30/17

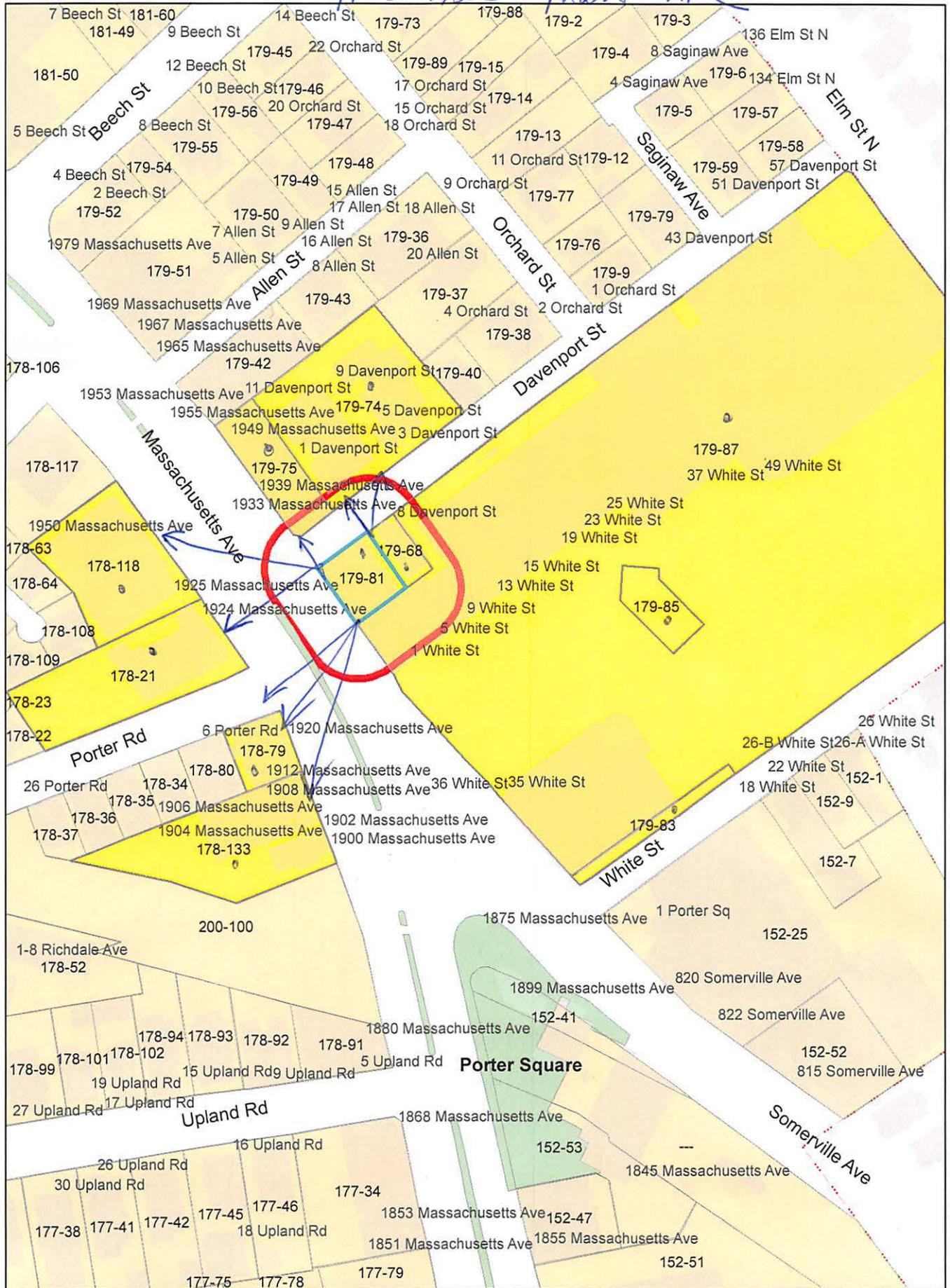
OFFICIAL USE ONLY

Table with 4 columns: Department, Date, Department, Date. Rows include BZA, Planning Board, Historic, Fire Dept., Electrical, Plumbing, D.P.W., Parking.

Application Approval (Subject to the provisions of the Massachusetts State Building Code 780 CMR and the Zoning Laws of the City of Cambridge.) Application and Plans Accepted By: Bin Date Zoning Approved By: Date Plan Review Approved By: Date AAB Review by: Date Permit Approved/Granted By: Date

Inspection Record Final Inspection Made Date By: Certified Foundation Plan submitted: Yes No Certificate of Occupancy issued: Yes No Final Cost Affidavit: Yes No General Contractor Final Affidavit: Yes No Architect Final Affidavit: Yes No Structural Engineer Final Affidavit: Yes No Final as-built drawings submitted in digital format? Yes No

1923-1925 Mass Ave



1923-1925 Mass Ave

Petitioner

178-21
PORTER SQUARE HOTEL, LLC
1924 MASS AVE
CAMBRIDGE, MA 02140

178-79
TOADMAN, LLC
1920 MASSACHUSETTS AVE
CAMBRIDGE, MA 02140

PRINCE LOBEL TYE LLP
C/O RICARDO M. SOUSA, ESQ.
ONE INTERNATIONAL PLACE, SUITE 3700
BOSTON, MA 02110

178-133
PKH PROPERTIES, LLC
P.O. BOX 621 BROOKLINE
BROOKLINE, MA 02446

179-68
8 DAVENPORT LLC.
195 LEXINGTON AVE
CAMBRIDGE, MA 02138

179-74
GREGORY, STEVEN K. , MARY KATHRYN BRATUN
& CITY OF CAMBRIDGE TAX TITLE
141 FEDERAL STREET
SALEM, MA 01970

179-87
HEKIMIAN, JAMES S. &
KAIG DER MANUELIAN, TRS.
C/O GRAVESTAR, INC.
160 SECOND ST
CAMBRIDGE, MA 02142

178-118
CAMBRIDGE MASONIC HALL ASSOCIATION
1950 MASS AVE
CAMBRIDGE, MA 02140

179-74
SENGUPTA, RITA
3 DAVENPORT ST., UNIT #3
CAMBRIDGE, MA 02140

179-81
1925 MASS AVE, LLC.
C/O ERIC HOAGLAND
195 LEXINGTON AVE.
CAMBRIDGE, MA 02138

179-74
WANG, NAXIN
C/O PORTER, JOHN MIKAEL & ADIA
1 DAVENPORT ST. APT#5
CAMBRIDGE, MA 02140

179-74
DAVENPORT STREET LLC
75 RIVER STREET
CAMBRIDGE, MA 02139

179-74
LIN, LENNOX
15 DAVENPORT ST., #6/1
CAMBRIDGE, MA 02140

179-74
HUANG, HON-REN & YU-HSIN CHIU
15 GOFFE ROAD
LEXINGTON, MA 02421

179-74
KUO, BOBBY F
7 DAVENPORT STREET
CAMBRIDGE, MA 02140

179-74
KULSHRESTHA, ANKIT
15 DAVENPORT ST., #8/1
CAMBRIDGE, MA 02140

179-74
JEFFERSON, MARILYN
1-15 DAVENPORT ST., UNIT #9
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