



**BZA APPLICATION FORM - OWNERSHIP INFORMATION**

To be completed by OWNER, signed before a notary and returned to The Secretary of the Board of Zoning Appeals.

I/We INMAN CAST LLC BY PETER DALY  
(OWNER)

Address: 90 Hill 2nd FRENCH VT CAMBRIDGE MA 02138

State that I/We own the property located at 1221 CAMBRIDGE VT, CAMBRIDGE which is the subject of this zoning application.

The record title of this property is in the name of INMAN CAST LLC

\*Pursuant to a deed of duly recorded in the date 4/1/2011, Middlesex South County Registry of Deeds at Book 1398, Page 19; or Middlesex Registry District of Land Court, Certificate No. \_\_\_\_\_ Book \_\_\_\_\_ Page \_\_\_\_\_.

  
SIGNATURE BY LAND OWNER OR AUTHORIZED TRUSTEE, OFFICER OR AGENT\*

\*Written evidence of Agent's standing to represent petitioner may be requested.

Commonwealth of Massachusetts, County of MIDDLESEX

The above-name PETER DALY personally appeared before me, this 12<sup>th</sup> of JULY, 2016, and made oath that the above statement is true.

John W. Kelley Notary

My commission expires FEB 12, 2021 (Notary Seal).



- If ownership is not shown in recorded deed, e.g. if by court order, recent deed, or inheritance, please include documentation.

July 29, 2016

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: 1221 Cambridge Street  
Assessor's Map 82, Lot 8 (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 A (BA) 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 Board<sup>1</sup>. 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").

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<sup>1</sup> 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

The Applicant seeks to modify its existing wireless communications facility by collocating three (3) new L700 antennas mounted to the façade of the existing building, three (3) Remote Radio Head Units (“RRH”) and supporting equipment (the “Proposed Facility”). All of the proposed antennas will be installed adjacent to the existing antennas and painted to match the existing building. The proposed antennas and RRH units will be installed on the façade of the existing building located at the Property (the “Building”). The Applicant’s 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 adding three (3) new T-Mobile L700 panel antennas, façade mounted to the existing building, adjacent to the existing antennas and painted to match the building, together with supporting equipment. All new antennas will be installed to be consistent with the previous decisions of the Board for this facility, the first of which is dated August 9, 2006 (Case No. 9306) (the “Original Decision”) and second dated November 16, 2012 (Case No. 10325) (the “Previous Decision”) (together, the Original Decision and the Previous Decision shall hereafter be referred to as the “Decisions”). Consequently, the visual change to the Applicant’s existing facility will be de minimus.

After installation, the Proposed Facility will be unmanned and will only require twice a month maintenance visits per carrier. The only utilities required to operate this Proposed Facility are standard 120-volt electrical power as well as telephone service. These are presently in place at the Property. The traffic generated by the Proposed Facility will be approximately two vehicle trips per month by maintenance personnel who will inspect the Proposed Facility to ensure it remains in good working order. The Proposed Facility will comply with all applicable local, state and federal safety codes.



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 BA 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 BA 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 C-1 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 has no additional visual impact on the existing facility and Building. The Proposed Facility will be installed entirely within the existing faux chimney and as such will have no change on the existing visual conditions of the Building.

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.**

This is not applicable to the Proposed Facility. The Applicant proposes to install its facility within the BA zoning district.

**B. The Applicant complies with the Special Permit Criteria set forth in Section 10-43 of the Ordinance<sup>2</sup>:**

**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. 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.

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<sup>2</sup> 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.

**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 BA 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:**

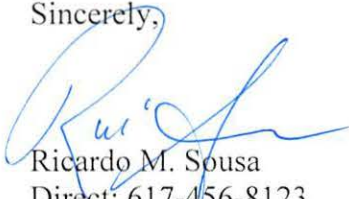
Not Applicable. The Applicant is not proposing to construct a new building or structure.

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](mailto:rsousa@princelobel.com)

**BZA APPLICATION FORM**  
**DIMENSIONAL INFORMATION**

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

LOCATION: 1221 Cambridge Street ZONE: BA

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

	<u>EXISTING CONDITIONS</u>	<u>REQUESTED CONDITIONS</u>	<u>ORDINANCE REQUIREMENTS<sup>1</sup></u>
<u>TOTAL GROSS FLOOR AREA:</u>	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (max.)
<u>LOT AREA:</u>	<u>N/A</u>		<u>N/A</u> (min.)
<u>RATIO OF GROSS FLOOR AREA TO LOT AREA:<sup>2</sup></u>	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (max.)
<u>LOT AREA FOR EACH DWELLING UNIT:</u>	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (min.)
<u>SIZE OF LOT:</u>			
WIDTH	<u>N/A</u>		<u>N/A</u> (min.)
DEPTH			
<u>Setbacks in Feet:</u>			
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.)
<u>SIZE OF BLDG.:</u>			
HEIGHT	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (max.)
LENGTH			
WIDTH			
<u>RATIO OF USABLE OPEN SPACE TO LOT AREA:<sup>3)</sup></u>	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (min.)
<u>NO. OF DWELLING UNITS:</u>	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (max.)
<u>NO. OF PARKING SPACES:</u>	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (min./max)
<u>NO. OF LOADING AREAS:</u>	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (min.)
<u>DISTANCE TO NEAREST BLDG. ON SAME LOT:</u>	<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".

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





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

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**T-Mobile Northeast LLC**

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

**Applicant**

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**Property Location:  
1221 Cambridge Street  
Cambridge, MA 02139  
Map 82, Lot 8**

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**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**

**July 29, 2016**

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**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**

**Property located at:**

**1221 Cambridge Street  
Cambridge, MA 02139**

**Map 82, Lot 8**

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Board of Zoning Appeals Special Permit Application	Tab 1
Zoning Supporting Statement	Tab 2
Plans	Tab 3
Photograph Simulations	Tab 4
FCC License	Tab 5
Previous Decision	Tab 6
Eligible Facilities Request	Tab 7

**1**

**BZA APPLICATION FORM**

**CHECK LIST**

PROPERTY LOCATION: 1221 Cambridge Street DATE: 7/29/2016

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

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

BLOCK: 82 LOT: 8

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.

PLEASE INCLUDE THIS CHECKLIST WITH YOUR APPLICATION. ALL DOCUMENTS ARE TO BE TYPED OR WRITTEN LEGIBLY.

<u>DOCUMENTS</u>	<u>REQUIRED</u>	<u>ENCLOSED</u>
Application Form	<u>X</u>	<u>X</u>
<b>3 Forms with Original Signatures</b>		
Supporting Statements - Scanned & 1 set to Zoning	<u>X</u>	<u>X</u>
Application Fee (You will receive invoice online)	<u>X</u>	<u>X</u>
Assessor's GIS "Block Map" (Available on line or At Engineering Dept. - 147 Hampshire Street)	<u>X</u>	<u>X</u>
Dimensional Form - Refer to Cambridge Zoning Ordinance - Scanned & 1 set to Zoning (Subject to further review by Zoning Specialist)	<u>X</u>	<u>X</u>
Ownership Certificate, Notarized - Scanned & 1 set to Zoning	<u>X</u>	<u>X</u>
Floor Plans - Scanned & 1 set to Zoning	<u>X</u>	<u>X</u>
Elevations - Scanned & 1 set to Zoning	<u>X</u>	<u>X</u>
Certified Plot Plan - Scanned & 1 set to Zoning (By Registered Land Surveyor)	<u>N/A</u>	<u>N/A</u>
Photographs of Property - Scanned & 1 set to Zoning	<u>X</u>	<u>X</u>
Parking Plan (if relevant to your application) Scanned & 1 set to Zoning	<u>N/A</u>	<u>N/A</u>
<b><u>FOR SUBDIVISION ALSO INCLUDE:</u></b> Scanned & 1 set to Zoning		
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.  
\*\* Can be submitted after subdivision has been approved.

**BZA APPLICATION FORM**

**GENERAL INFORMATION**

The undersigned hereby petitions the Board of Zoning Appeal for the following:

Special Permit:   X   Variance:            Appeal:           

and relief pursuant to Section 6409 of the Middle Class Tax Relief Act

PETITIONER:   T-Mobile Northeast LLC  

PETITIONER'S ADDRESS:   Prince Lobel Tye, LLP, Attn. Ricardo M. Sousa, Esq., One International Place, Suite 3700, Boston, MA  

LOCATION OF PROPERTY:   1221 Cambridge Street  

TYPE OF OCCUPANCY:   Telecommunications   ZONING DISTRICT:   BA  

**REASON FOR PETITION:**

<u>          </u> Additions	<u>          </u> New Structure
<u>          </u> Change in Use/Occupancy	<u>          </u> Parking
<u>          </u> Conversion to Addi'l Dwelling Unit's	<u>          </u> Sign
<u>          </u> Dormer	<u>          </u> Subdivision
<u>  X  </u> Other: <u>  Section 6409(a) of the Spectrum Act relief for Special Permit for the collocation of a Wireless Facility  </u>	

**DESCRIPTION OF PETITIONER'S PROPOSAL:**

The Applicant proposes to modify its existing Wireless Telecommunications Facility by collocating three (3) new L700 antennas on the existing building, together with supporting equipment. All three (3) proposed antennas will be facade mounted to the existing Building, adjacent to the existing antennas and painted to match the existing building. The Applicants proposal complies with Section 6409 of the Spectrum Act as the collocation of antennas is not a substantial change to the existing base station. Moreover, the Applicants proposal complies with Section 4.32 and 10.4 of the Cambridge Zoning Code.

**SECTIONS OF ZONING ORDINANCE CITED:**

Article   4.00   Section   4.32 (g)(1) Utilities - Telephone Exchange  

Article   10.00   Section   10.4 - Special Permit  

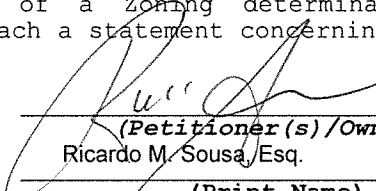
Article   6409   Section   Middle Class Tax Relief Act  

Applicants for a **Variance** must complete Pages 1-5

Applicants for a **Special Permit** must complete Pages 1-4 and 6

Applicants for an **Appeal** to the BZA of a Zoning determination by the Inspectional Services Department must attach a statement concerning the reasons for the appeal

Original Signature(s):

  
\_\_\_\_\_  
(Petitioner(s)/Owner)  
Ricardo M. Sousa, Esq.  
\_\_\_\_\_  
(Print Name)

Address:   One International Place, Suite 3700  

  Boston, MA 02110  

Tel. No.:   617-456-8123  

E-Mail Address:   rsousa@princelobel.com  

Date:   July 29, 2016

**BZA APPLICATION FORM - OWNERSHIP INFORMATION**

To be completed by OWNER, signed before a notary and returned to The Secretary of the Board of Zoning Appeals.

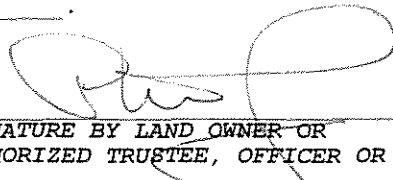
I/We WIMAN CAST LLC BY PETER DALY  
(OWNER)

Address: 70 HRI 2ND FRANKLIN VT CAMBRIDGE MA 02138

State that I/We own the property located at 1221 CAMBRIDGE VT, CAMBRIDGE which is the subject of this zoning application.

The record title of this property is in the name of WIMAN CAST LLC

\*Pursuant to a deed of duly recorded in the date 4/1/2011, Middlesex South County Registry of Deeds at Book 1398, Page 19; or Middlesex Registry District of Land Court, Certificate No. \_\_\_\_\_  
Book \_\_\_\_\_ Page \_\_\_\_\_



SIGNATURE BY LAND OWNER OR AUTHORIZED TRUSTEE, OFFICER OR AGENT\*

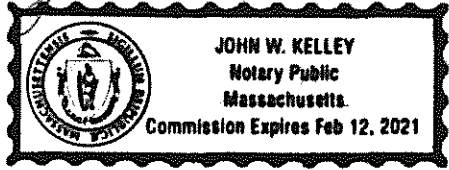
\*Written evidence of Agent's standing to represent petitioner may be requested.

Commonwealth of Massachusetts, County of MIDDLESEX

The above-name PETER DALY personally appeared before me, this 12<sup>TH</sup> of JULY, 2016, and made oath that the above statement is true.

John W. Kelley Notary

My commission expires FEB 12, 2021 (Notary Seal).



• If ownership is not shown in recorded deed, e.g. if by court order, recent deed, or inheritance, please include documentation.

BZA APPLICATION FORM

DIMENSIONAL INFORMATION

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

LOCATION: 1221 Cambridge Street ZONE: BA

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

	<u>EXISTING CONDITIONS</u>	<u>REQUESTED CONDITIONS</u>	<u>ORDINANCE REQUIREMENTS<sup>1</sup></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: <sup>2</sup>	<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:			<u>N/A</u> (min.)
	WIDTH		
	DEPTH		
Setbacks in Feet:	FRONT	<u>N/A</u>	<u>No Change</u> (min.)
	REAR	<u>N/A</u>	<u>No Change</u> (min.)
	LEFT SIDE	<u>N/A</u>	<u>No Change</u> (min.)
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SIZE OF BLDG.:	HEIGHT	<u>N/A</u>	<u>No Change</u> (max.)
	LENGTH		
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RATIO OF USABLE OPEN SPACE TO LOT AREA: <sup>3</sup> )	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (min.)
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**BZA APPLICATION FORM**

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

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

BLOCK: 82 LOT: 8

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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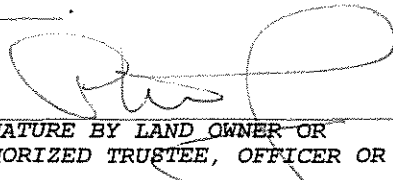
I/We WIMAN CAST LLC BY PETER DALY  
(OWNER)

Address: 70 HRI 2ND FRANKLIN VT CAMBRIDGE MA 02138

State that I/We own the property located at 1221 CAMBRIDGE VT, CAMBRIDGE which is the subject of this zoning application.

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SIGNATURE BY LAND OWNER OR AUTHORIZED TRUSTEE, OFFICER OR AGENT\*

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Commonwealth of Massachusetts, County of MIDDLESEX

The above-name PETER DALY personally appeared before me, this 12<sup>TH</sup> of JULY, 2016, and made oath that the above statement is true.

John W. Kelley Notary

My commission expires FEB 12, 2021 (Notary Seal).



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BZA APPLICATION FORM

DIMENSIONAL INFORMATION

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

LOCATION: 1221 Cambridge Street ZONE: BA

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

	<u>EXISTING CONDITIONS</u>	<u>REQUESTED CONDITIONS</u>	<u>ORDINANCE REQUIREMENTS<sup>1</sup></u>
TOTAL GROSS FLOOR AREA:	<u>N/A</u>	<u>No Change</u>	<u>N/A</u> (max.)
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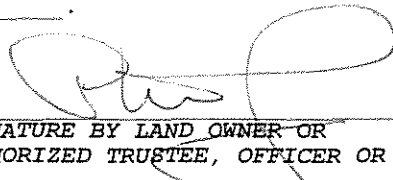
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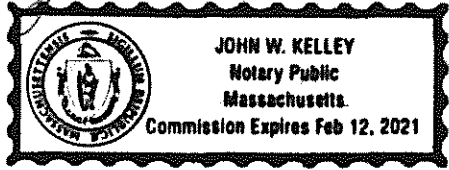
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**2**

July 29, 2016

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: 1221 Cambridge Street  
Assessor's Map 82, Lot 8 (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 A (BA) 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 Board<sup>1</sup>. 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").

---

<sup>1</sup> 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

The Applicant seeks to modify its existing wireless communications facility by collocating three (3) new L700 antennas mounted to the façade of the existing building, three (3) Remote Radio Head Units (“RRH”) and supporting equipment (the “Proposed Facility”). All of the proposed antennas will be installed adjacent to the existing antennas and painted to match the existing building. The proposed antennas and RRH units will be installed on the façade of the existing building located at the Property (the “Building”). The Applicant’s 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 adding three (3) new T-Mobile L700 panel antennas, façade mounted to the existing building, adjacent to the existing antennas and painted to match the building, together with supporting equipment. All new antennas will be installed to be consistent with the previous decisions of the Board for this facility, the first of which is dated August 9, 2006 (Case No. 9306) (the “Original Decision”) and second dated November 16, 2012 (Case No. 10325) (the “Previous Decision”) (together, the Original Decision and the Previous Decision shall hereafter be referred to as the “Decisions”). Consequently, the visual change to the Applicant’s existing facility will be de minimus.

After installation, the Proposed Facility will be unmanned and will only require twice a month maintenance visits per carrier. The only utilities required to operate this Proposed Facility are standard 120-volt electrical power as well as telephone service. These are presently in place at the Property. The traffic generated by the Proposed Facility will be approximately two vehicle trips per month by maintenance personnel who will inspect the Proposed Facility to ensure it remains in good working order. The Proposed Facility will comply with all applicable local, state and federal safety codes.

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 BA 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 BA 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 C-1 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 has no additional visual impact on the existing facility and Building. The Proposed Facility will be installed entirely within the existing faux chimney and as such will have no change on the existing visual conditions of the Building.

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.**

This is not applicable to the Proposed Facility. The Applicant proposes to install its facility within the BA zoning district.

**B. The Applicant complies with the Special Permit Criteria set forth in Section 10-43 of the Ordinance<sup>2</sup>:**

**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. 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.

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<sup>2</sup> 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.

**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 BA 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 in Section 19.30 of the Ordinance:**

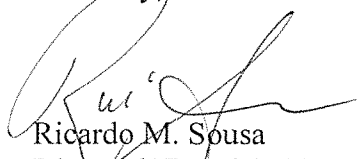
Not Applicable. The Applicant is not proposing to construct a new building or structure.

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](mailto:rsousa@princelobel.com)



**3**



# B0031/1221 CAMBRIDGE STREET

1221 CAMBRIDGE STREET  
CAMBRIDGE, MA 02139

## SITE NO.: 4DE7031B

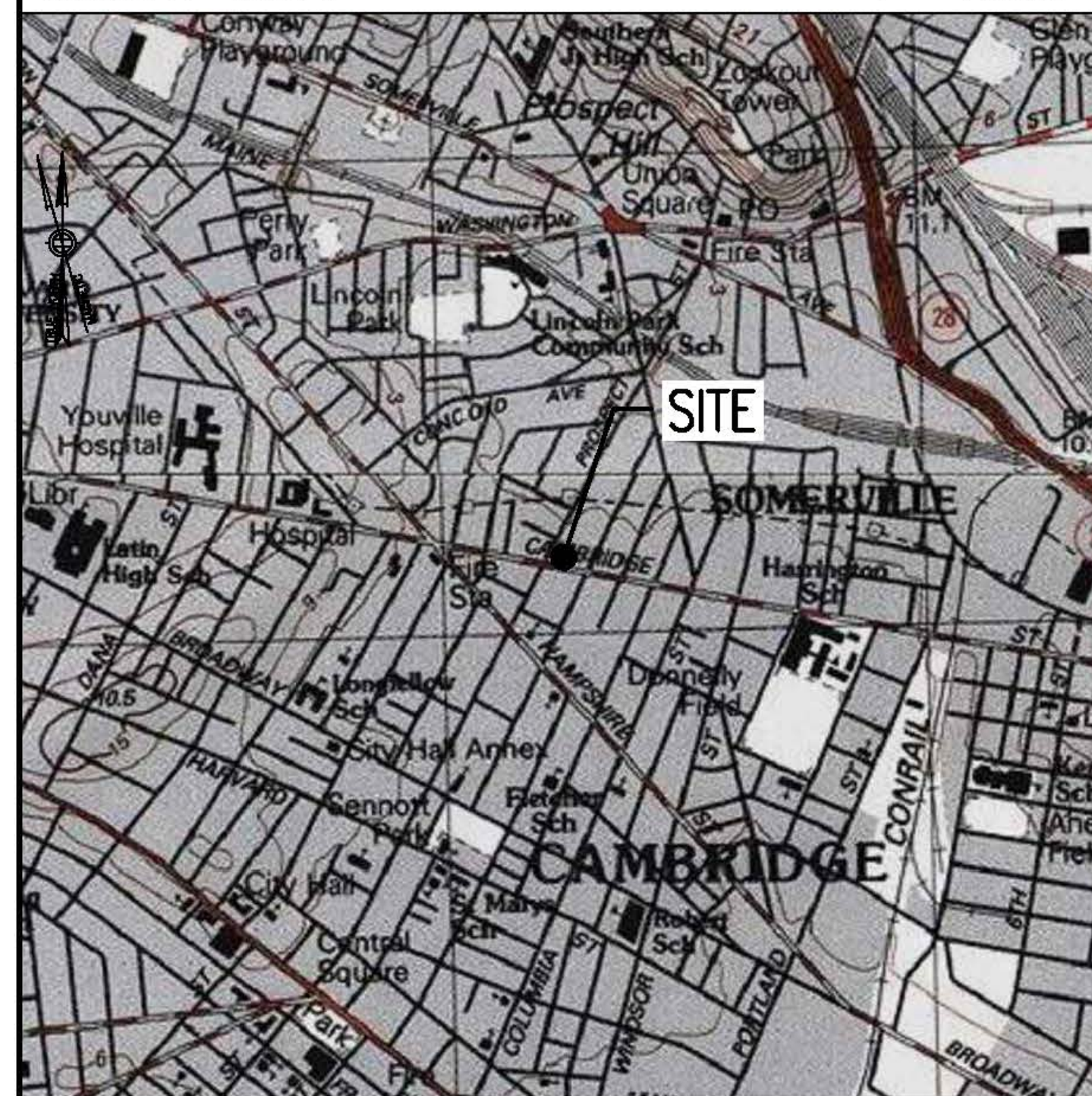
SITE TYPE: MODERNIZATION UPGRADE 700MHz - 702D

### 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 PROJECT OWNER'S 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 IS 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 PROJECT OWNER'S 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 PROJECT OWNER'S 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 (CT): 1-800-922-4455

### VICINITY MAP:

1"=1000'



### DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

### SHEET INDEX

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A-3	SITE DETAILS	1
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### PROJECT SUMMARY

SITE NUMBER: 4DE7031B  
 SITE NAME: B0031/1221 CAMBRIDGE STREET  
 SITE ADDRESS: 1221 CAMBRIDGE STREET  
CAMBRIDGE, MA 02139  
 ASSESSOR'S PARCEL NO.: 84-20  
 ZONING DISTRICT: BA (BUSINESS A)  
 CONSTRUCTION TYPE: MODERNIZATION UPGRADE 700MHz  
 LAND OWNER: 1221 CAMBRIDGE STREET CONDOMINIUM ASSOCIATION  
1221 CAMBRIDGE STREET  
CAMBRIDGE, MA 02139  
 APPLICANT: T-MOBILE NORTHEAST LLC  
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766  
 ARCHITECT: CHAPPELL ENGINEERING ASSOCIATES, LLC  
201 BOSTON POST ROAD WEST, SUITE 101  
MARLBOROUGH, MA 01752  
 STRUCTURAL ENGINEER: CHAPPELL ENGINEERING ASSOCIATES, LLC  
201 BOSTON POST ROAD WEST, SUITE 101  
MARLBOROUGH, MA 01752

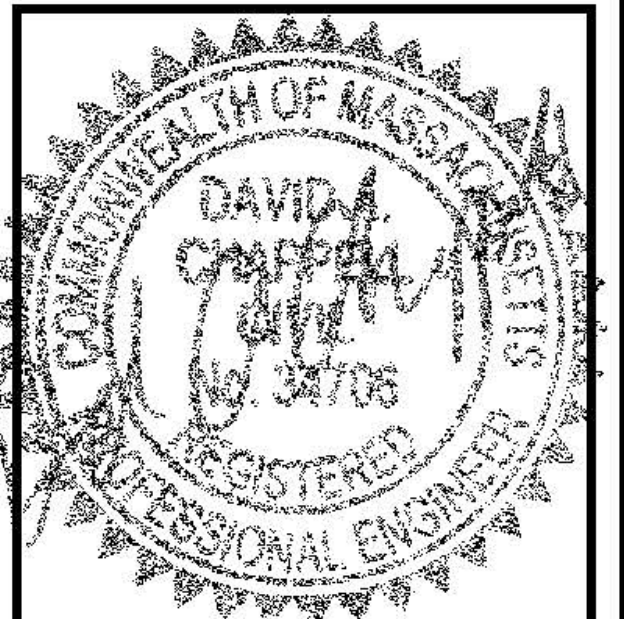
Mobile

T-MOBILE NORTHEAST LLC  
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766  
OFFICE: (508) 286-2700

CHAPPELL  
ENGINEERING  
ASSOCIATES, LLC

Civil - Structural - Land Surveying

R.K. EXECUTIVE CENTRE  
201 BOSTON POST ROAD WEST  
SUITE 101  
MARLBOROUGH, MA 01752  
(508)481-7400  
www.chappellengineering.com



### APPROVALS

STRUCTURE OWNER \_\_\_\_\_  
 LEASING \_\_\_\_\_  
 R.F. \_\_\_\_\_  
 ZONING \_\_\_\_\_  
 CONSTRUCTION \_\_\_\_\_  
 A/E \_\_\_\_\_

PROJECT NO: 4DE7031B

DRAWN BY: CMC

CHECKED BY: JMT

### VERSION

NO.	DATE	DESCRIPTION
1	04/27/16	CONSTRUCTION
0	12/01/15	CONSTRUCTION REVIEW

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.

B0031/1221  
CAMBRIDGE STREET

1221 CAMBRIDGE STREET  
CAMBRIDGE, MA 02139

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1



**GENERAL NOTES:**

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:  
CONTRACTOR – T–MOBILE  
SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)  
OWNER – T–MOBILE  
OEM – ORIGINAL EQUIPMENT MANUFACTURER
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL, STATE AND FEDERAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, T1 CABLES AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR AND/OR LANDLORD PRIOR TO CONSTRUCTION.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION AND RETURN DISTURBED AREAS TO ORIGINAL CONDITIONS.
- THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- SUBCONTRACTOR SHALL NOTIFY CHAPPELL ENGINEERING ASSOCIATES, LLC 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS AND POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEERING REVIEW.
- CONSTRUCTION SHALL COMPLY WITH ALL T–MOBILE STANDARDS AND SPECIFICATIONS.
- SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITES ARE IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- IF THE EXISTING CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

**SITE WORK GENERAL NOTES:**

- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE T–MOBILE SPECIFICATION FOR SITE SIGNAGE.

**CONCRETE AND REINFORCING STEEL NOTES:**

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (400PSI) MAY BE USED. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 381 CODE REQUIREMENTS
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:  
CONCRETE CAST AGAINST EARTH.....3 IN.  
CONCRETE EXPOSED TO EARTH OR WEATHER:  
#6 AND LARGER .....2 IN.  
#5 AND SMALLER & WWF .....1½ IN.  
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:  
SLAB AND WALL .....¾ IN.  
BEAMS AND COLUMNS .....½ IN.
- A CHAMFER ¾" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY SIMPSON OR APPROVED EQUAL.
- CONCRETE CYLINDER TIES ARE NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER:  
(A) RESULTS OF CONCRETE CYLINDER TEST PERFORMED AT THE SUPPLIERS PLANT.  
(B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.  
FOR GREATER THAN 50 CUBIC YARDS THE GC SHALL PERFORM THE CONCRETE CYLINDER TEST.
- AS AN ALTERNATIVE TO ITEM 7. TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLANT.
- EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

**STRUCTURAL STEEL NOTES:**

- ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS AND T–MOBILE SPECIFICATIONS UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE ASTM–A–36 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. PAINTED SURFACES SHALL BE TOUCHED UP.
- BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (¾") AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE GALVANIZED OR STAINLESS STEEL.
- NON–STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE ¾" DIA. ASTM A 307 BOLTS (GALV) UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL.
- ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

**SOIL COMPACTION NOTES FOR SLAB ON GRADE:**

- EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL TO EXPOSE NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
- COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
- AS AN ALTERNATE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
- COMPACTED SUBBASE SHALL BE UNIFORM AND LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING #1 SIEVE.
- AS AN ALTERNATE TO ITEMS 2 AND 3, THE SUBGRADE SOILS WITH 5 PASSES OR A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND–OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). AND SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL–GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

**COMPACTION EQUIPMENT:**

- HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

**CONSTRUCTION NOTES:**

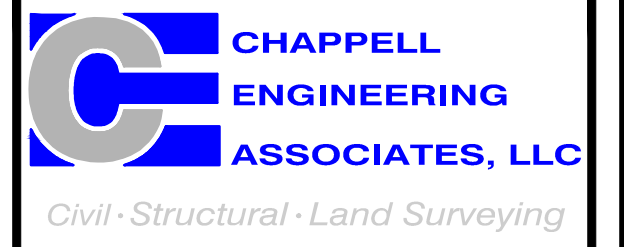
- FIELD VERIFICATION:  
SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, T–MOBILE ANTENNA PLATFORM LOCATION AND UTILITY TRENCHWORK.
- COORDINATION OF WORK:  
SUBCONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.
- CABLE LADDER RACK:  
SUBCONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY AND/OR ICE BRIDGE, AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW BTS LOCATION.

**ELECTRICAL INSTALLATION NOTES:**

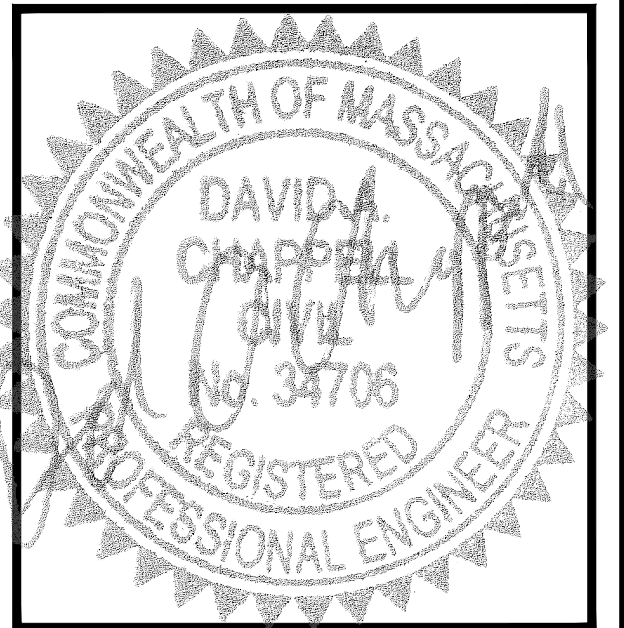
- WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
- SUBCONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLEING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER–STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR–CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA, AND MATCH INSTALLATION REQUIREMENTS.
- POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR–CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, ½ INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
- PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN–2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN–2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI–CONDUCTOR, TYPE TC CABLE (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN–2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USE, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP–STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY HARGER (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID–TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID–TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION–TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- CABINETS, BOXES AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- WIREWAYS SHALL BE EPOXY–COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PAINDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY–COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- METAL RECEPACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY–COATED, OR NON–CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.



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APPROVALS

STRUCTURE OWNER \_\_\_\_\_

LEASING \_\_\_\_\_

R.F. \_\_\_\_\_

ZONING \_\_\_\_\_

CONSTRUCTION \_\_\_\_\_

A/E \_\_\_\_\_

PROJECT NO: 4DE7031B

DRAWN BY: CMC

CHECKED BY: JMT

VERSION		
1	04/27/16	CONSTRUCTION
0	12/01/15	CONSTRUCTION REVIEW

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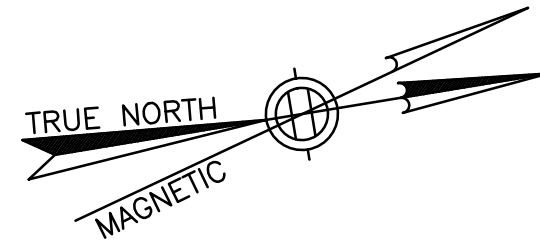
SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN–1





### EQUIPMENT SCHEDULE

- CURRENT EQUIPMENT**
- SIX (6) ERICSSON AIR ANTENNAS
  - THREE (3) UMTS TMA'S
  - TWELVE (12) 7/8" COAX CABLES
  - TWO (2) 1 1/8" COAX CABLES
  - TWO (2) DC/FIBER CABLES
  - ONE (1) GPS ANTENNA AND ASSOCIATED 1/2" COAX CABLE
  - ONE (1) ERICSSON RBS 2106 EQUIPMENT CABINET (DARK)
  - ONE (1) ERICSSON RBS 3106 EQUIPMENT CABINET WITH 6131 UPGRADE
  - ONE (1) PURCELL CABINET
  - ONE (1) PPC CABINET

- EQUIPMENT TO BE REMOVED**
- NONE

- EQUIPMENT TO BE ADDED**
- THREE (3) COMMSCOPE LNX-6514DS-A1M 6' PANEL ANTENNAS
  - THREE (3) RRUS11 B12

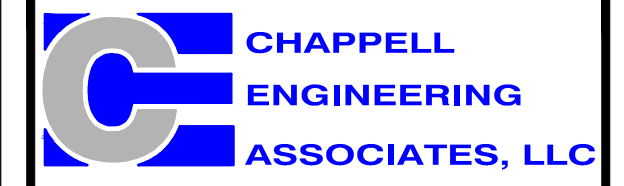
- FINAL EQUIPMENT CONFIGURATION**
- SIX (6) ERICSSON AIR ANTENNAS
  - THREE (3) COMMSCOPE LNX-6514DS-A1M 6' PANEL ANTENNAS
  - THREE (3) UMTS TMA'S
  - THREE (3) RRUS11 B12
  - TWELVE (12) 7/8" COAX CABLES
  - TWO (2) 1 1/8" COAX CABLES
  - TWO (2) DC/FIBER CABLES
  - ONE (1) GPS ANTENNA AND ASSOCIATED 1/2" COAX CABLE
  - ONE (1) ERICSSON RBS 2106 EQUIPMENT CABINET (DARK)
  - ONE (1) ERICSSON RBS 3106 EQUIPMENT CABINET WITH 6131 UPGRADE
  - ONE (1) PURCELL CABINET
  - ONE (1) PPC CABINET

EXISTING EQUIPMENT SPACE REQUIREMENTS WILL NOT CHANGE

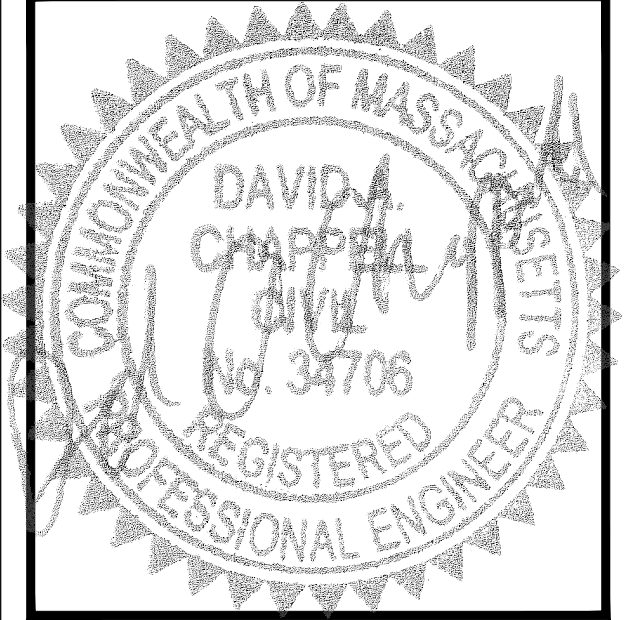
RF CONFIGURATION  
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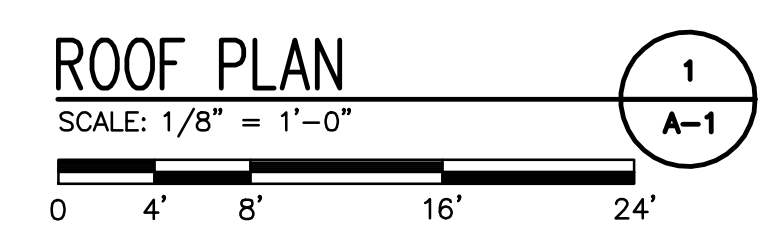
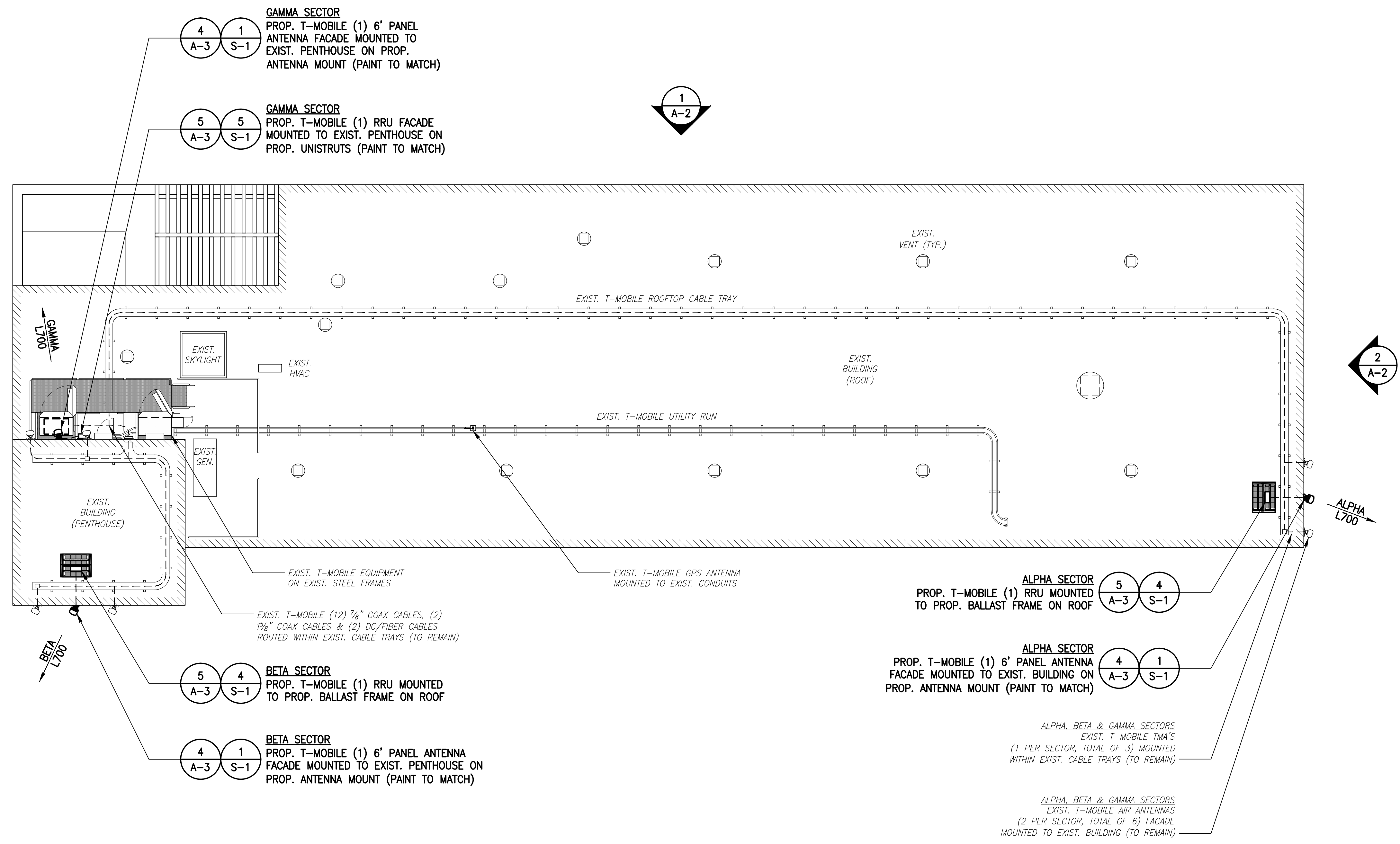
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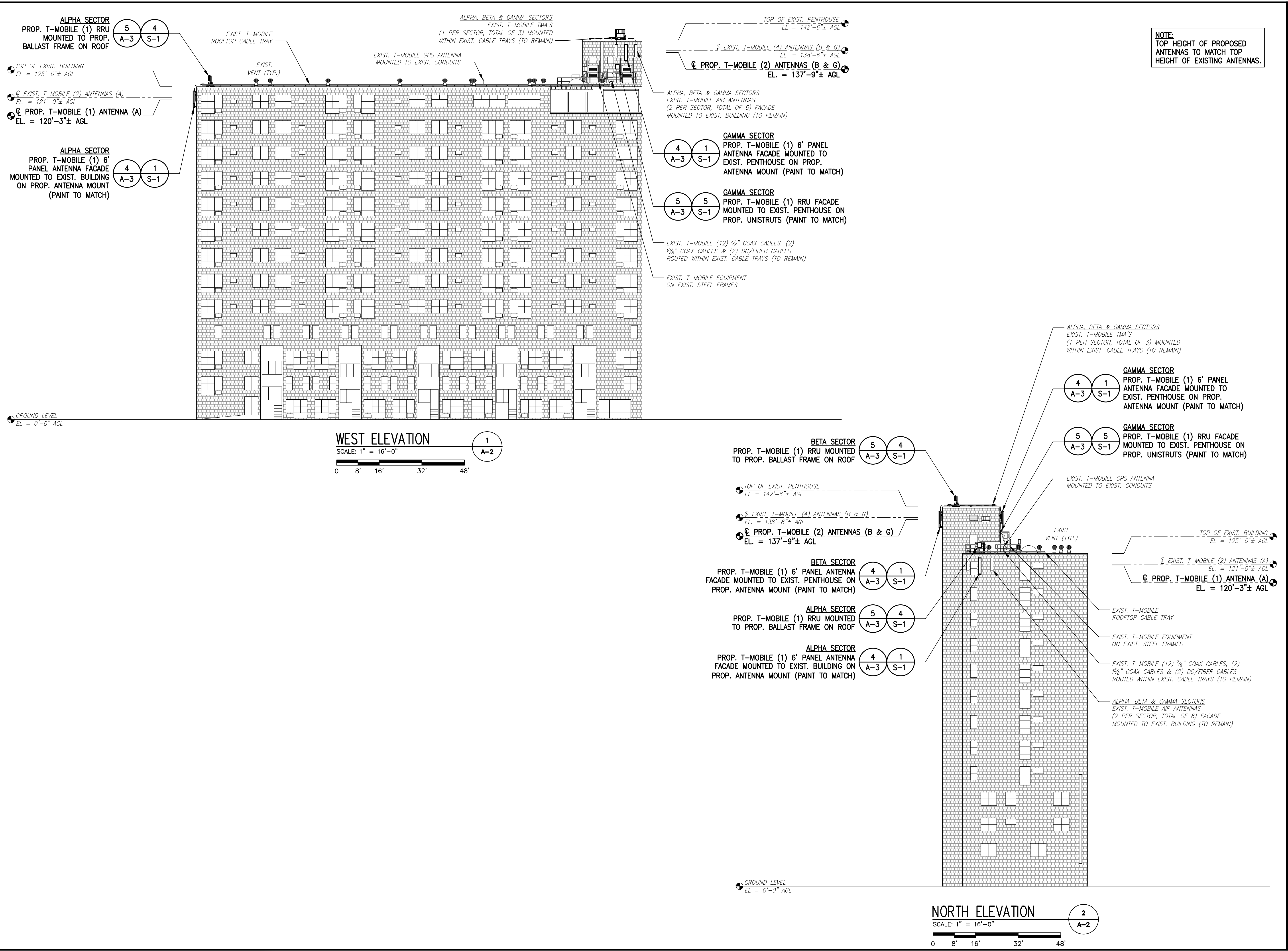
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SHEET TITLE  
ROOF PLAN

SHEET NUMBER  
A-1







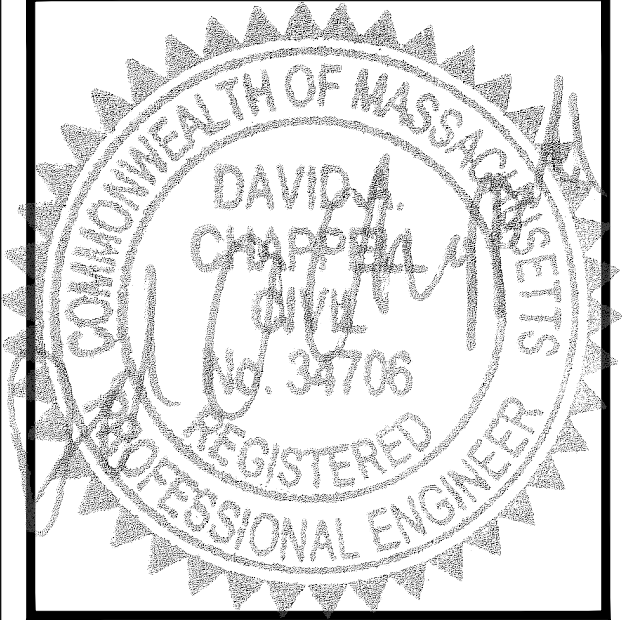
NOTE:  
TOP HEIGHT OF PROPOSED  
ANTENNAS TO MATCH TOP  
HEIGHT OF EXISTING ANTENNAS.

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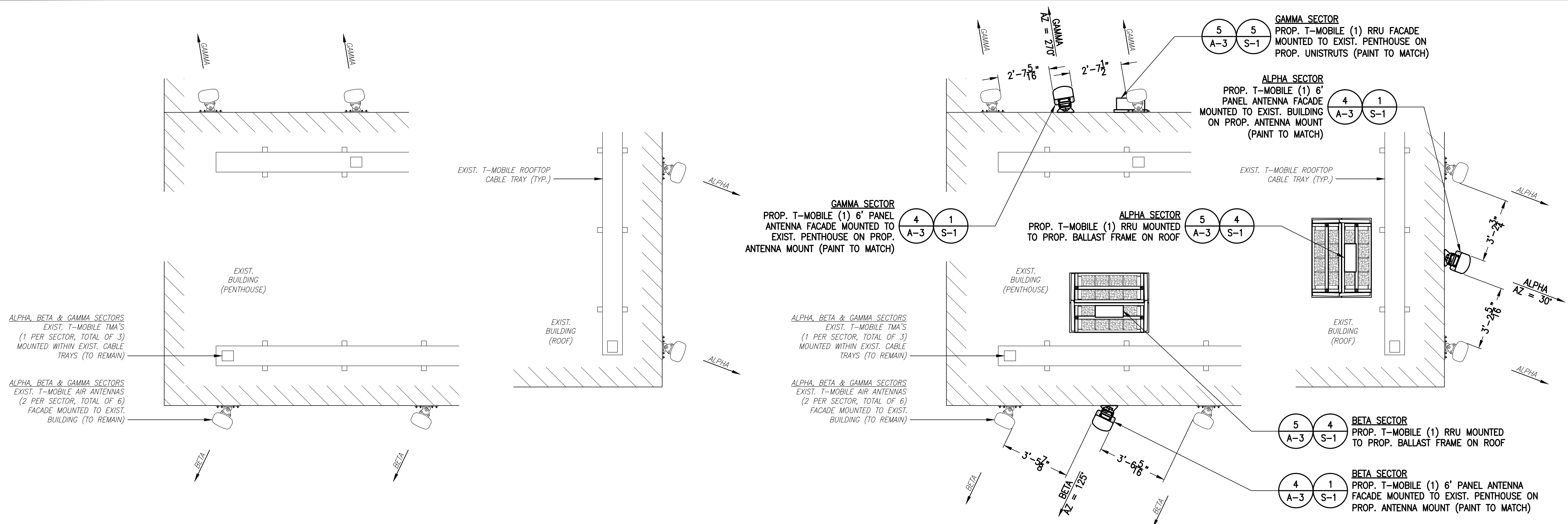
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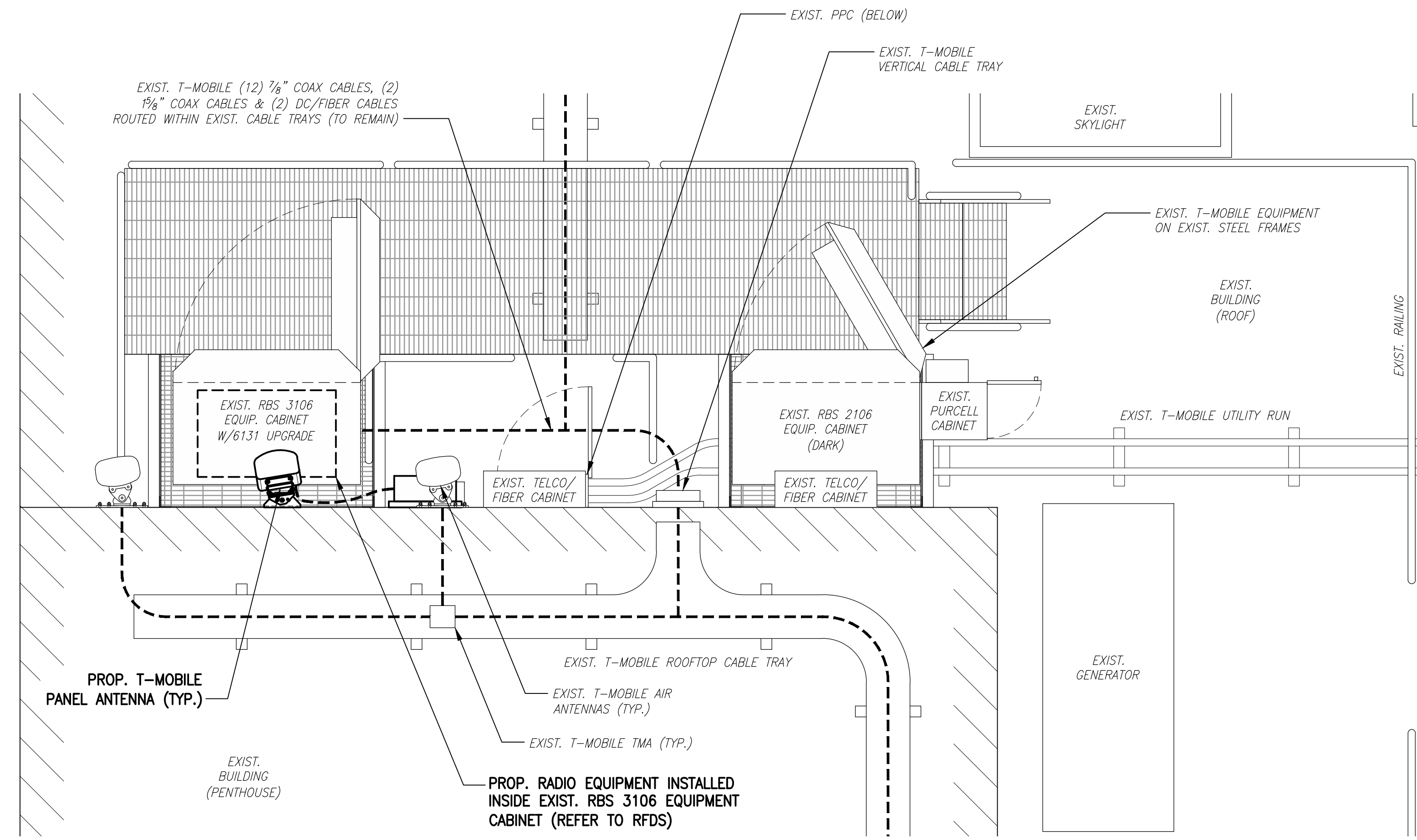
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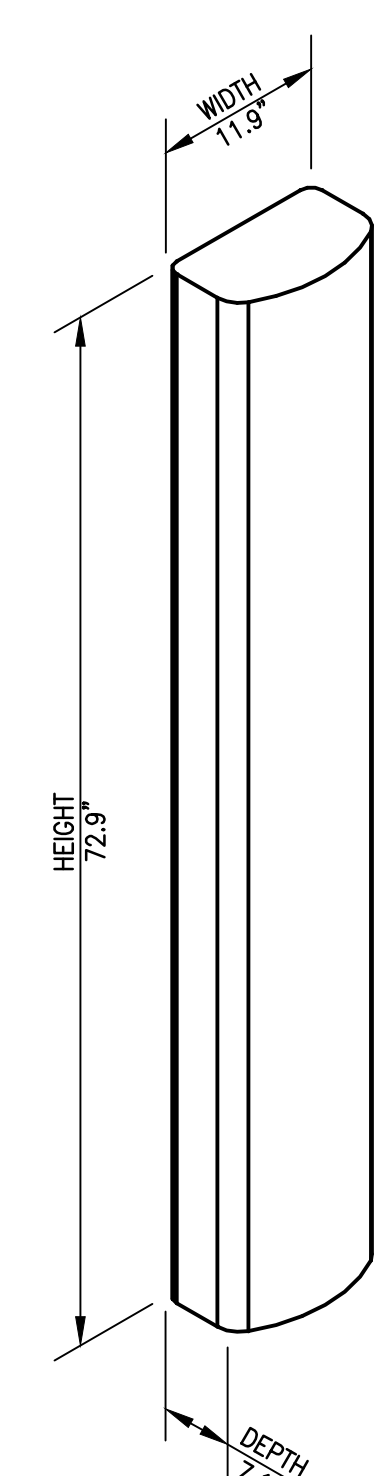


**EXIST. ANTENNA PLAN**  
SCALE: 3/8" = 1'-0"  
1  
A-3

**PROP. ANTENNA PLAN**  
SCALE: 3/8" = 1'-0"  
2  
A-3

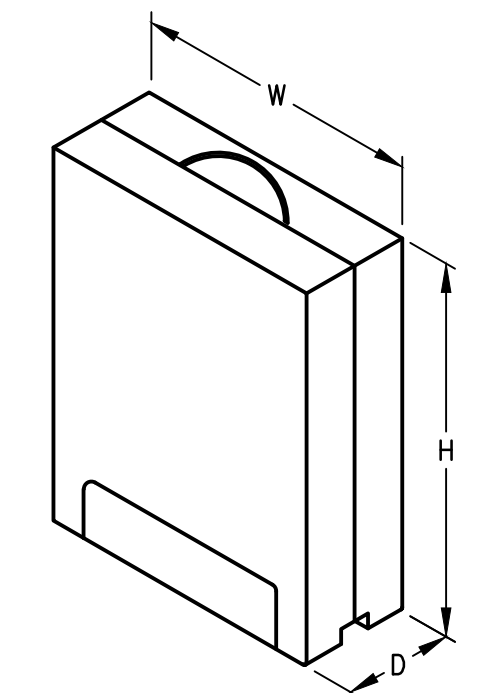


**EQUIPMENT PLAN**  
SCALE: 3/4" = 1'-0"  
3  
A-3



**COMMSCOPE LNX-6514DS-A1M PANEL ANTENNA**  
DIMENSIONS: 72.9"H x 11.9"W x 7.1"D  
WEIGHT: 31.3 LBS  
1 PER SECTOR, TOTAL OF 3

**ANTENNA ISOMETRIC**  
SCALE: N.T.S.  
4  
A-3

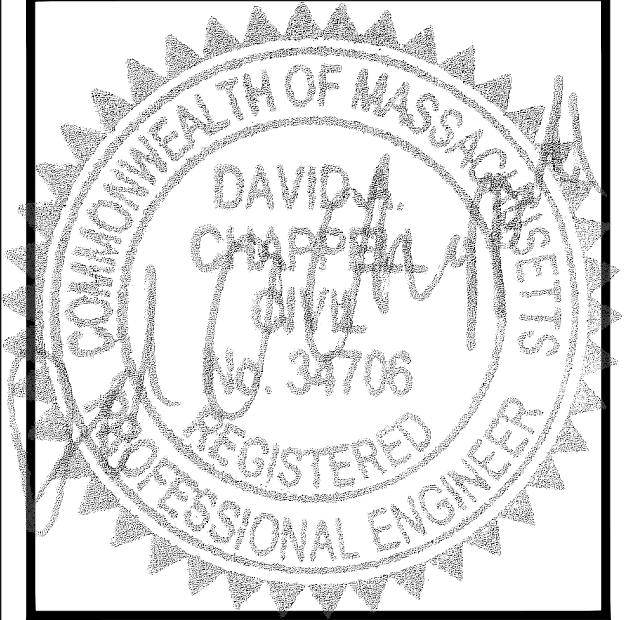


**RRU-31 BAND 12**  
DIMENSIONS: 20.0"H x 17"W x 7"D  
WEIGHT: 50.7 LBS  
1 PER SECTOR, TOTAL OF 3

**RRU ISOMETRIC**  
SCALE: N.T.S.  
5  
A-3

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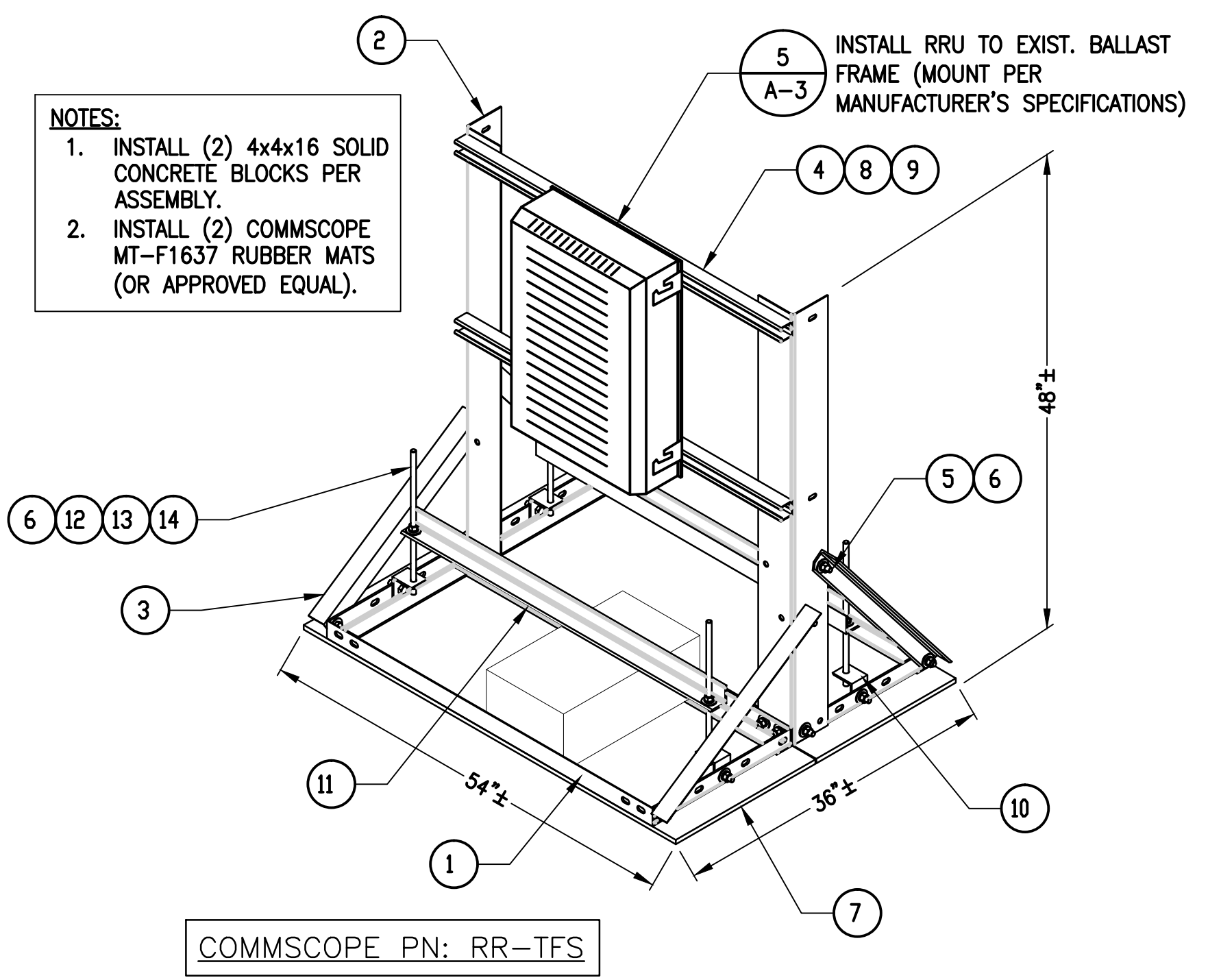
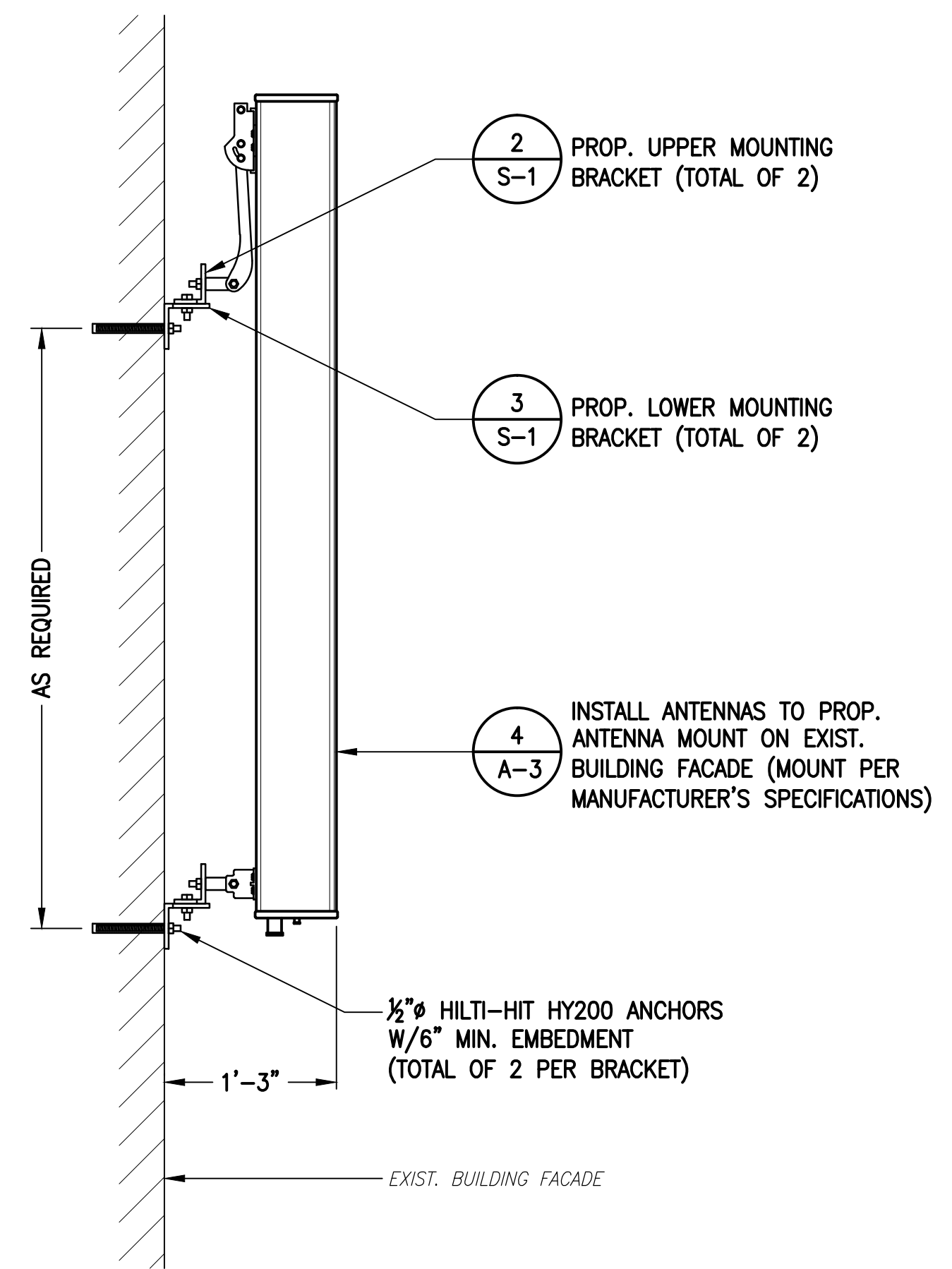
SHEET TITLE  
SITE DETAILS

SHEET NUMBER  
A-3



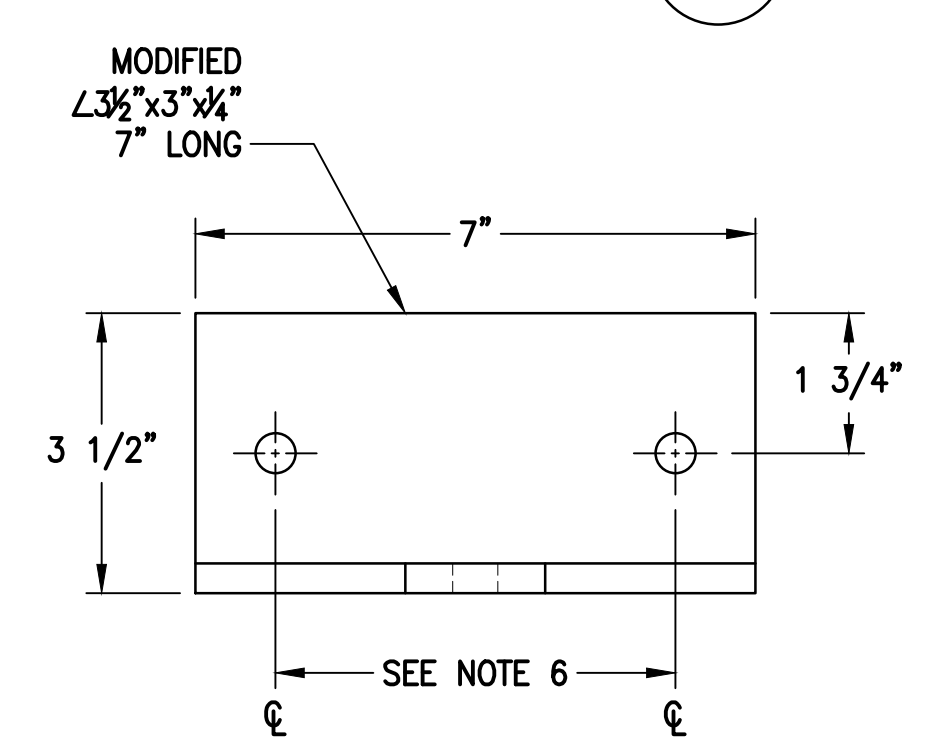
ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT
1	MT416.10	WELDMNT BALLAST SLED FRAME	2	22.40 LBS
2	MTC329420	VERTICAL ANGLE	2	13.93 LBS
3	MTC329421	BRACE ANGLE	4	4.71 LBS
4	MTC329414	1 5/8" UNISTRUT	2	6.25 LBS
5	GB-04145	1/2" X 1-1/2" GALV BOLT KIT	18	0.13 LBS
6	GW-F-04	1/2" GALV FLAT WASHER	28	0.06 LBS
7	MT-F1637	RUBBER MAT 5" X 18" X 48"	2	15.61 LBS
8	GW-F-03	3/8" GALV FLAT WASHER	8	0.01 LBS
9	GB-03145	3/8" X 1-1/2" GALV BOLT KIT	4	0.07 LBS
10	MTC8326.01	CLIP ANGLE	4	0.478 LBS
11	MTC329422	BRACE ANGLE	2	7.92 LBS
12	GWL-04	1/2" GALV LOCK WASHER	8	0.09 LBS
13	GN-04	1/2" GALV HEX NUT	8	0.04 LBS
14	MT-379-16	1/2" X 16" GALV THREADED ROD	4	0.88 LBS

- NOTES:**
- VERIFY DOWNTILT MOUNTING KIT BOLT LAYOUT PRIOR TO FABRICATION.
  - ROTATE UPPER CONNECTION TO REQUIRED AZIMUTH. TIGHTEN BOLT AND INSTALL SELF TAPPING SCREWS.
  - WEATHER SEAL AROUND EXTERIOR WALL ATTACHMENT ANGLES WITH SILICONE SEALANT.
  - PAINT ALL ANTENNAS, MOUNTS AND ASSOCIATED EQUIPMENT TO MATCH BUILDING FACADE.
  - ALL COAX IS TO BE NEATLY BUNDLED AND PAINTED TO MATCH THE BUILDING FACADE.
  - VERIFY WITH ANTENNA BRACKET PRIOR TO CONSTRUCTION.

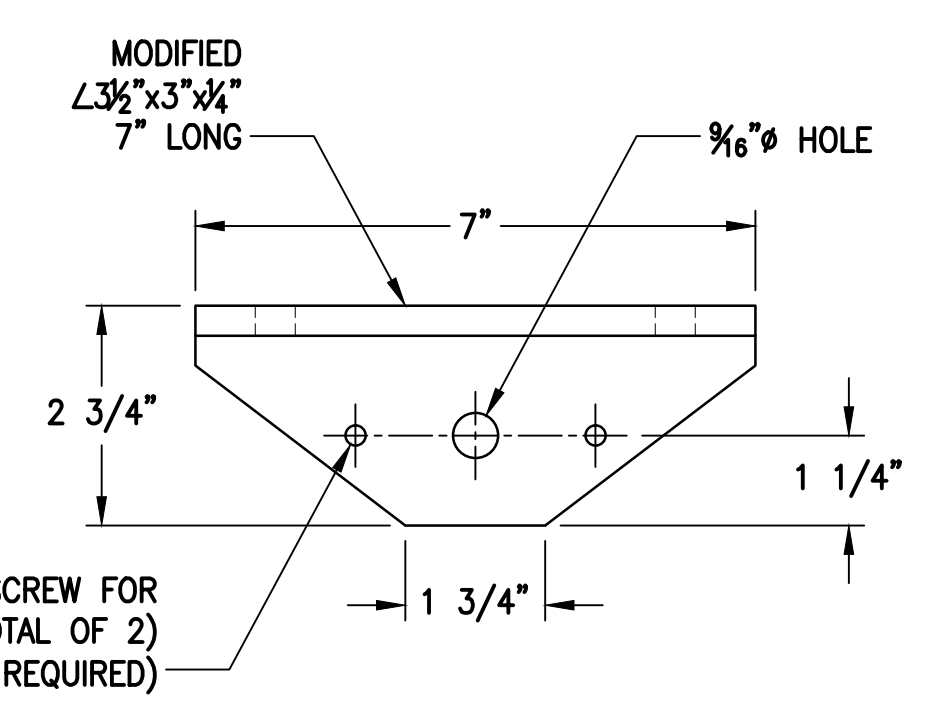


**ALPHA & BETA SECTORS**

**RRU MOUNTING DETAIL** 4  
S-1

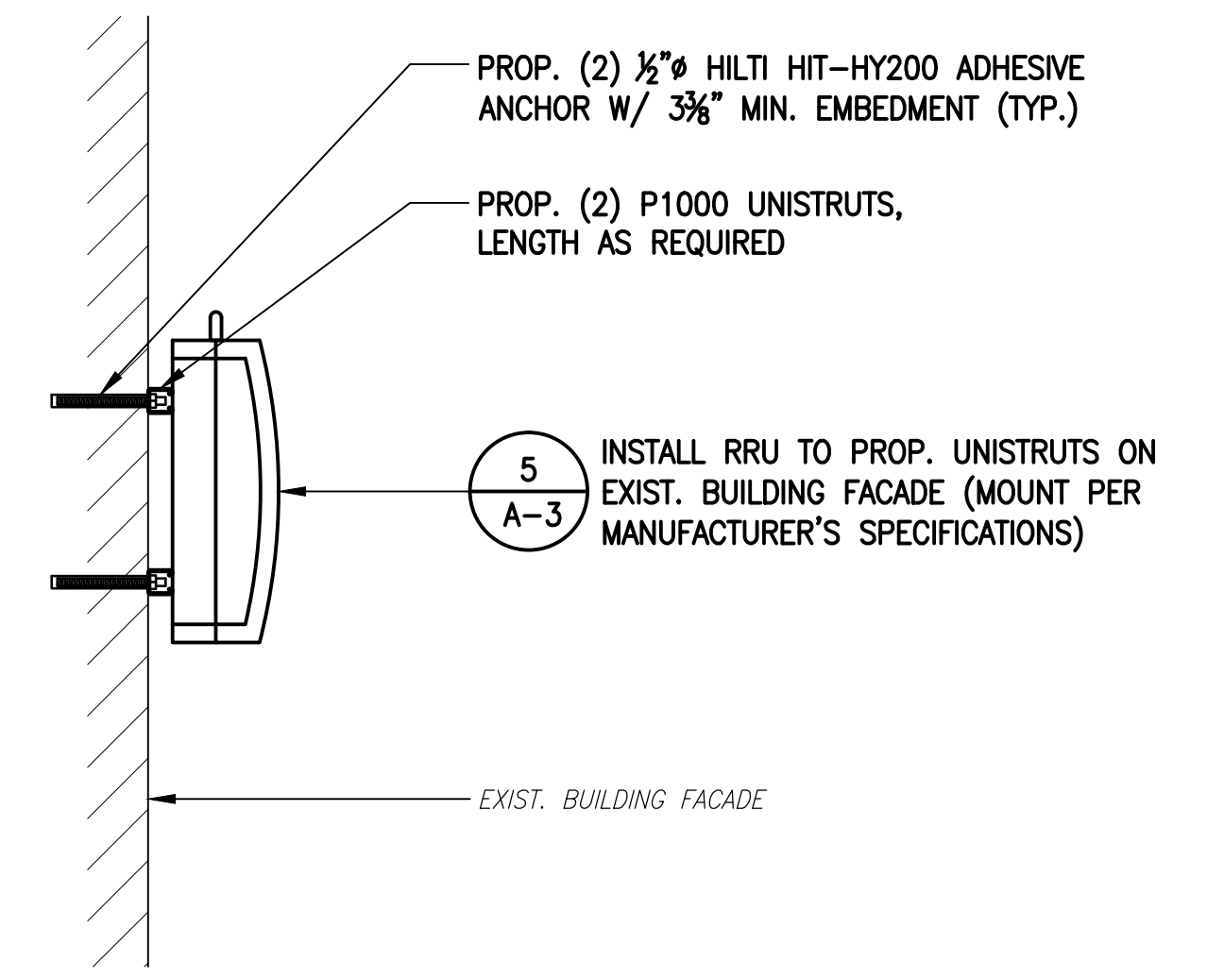


**FRONT VIEW**



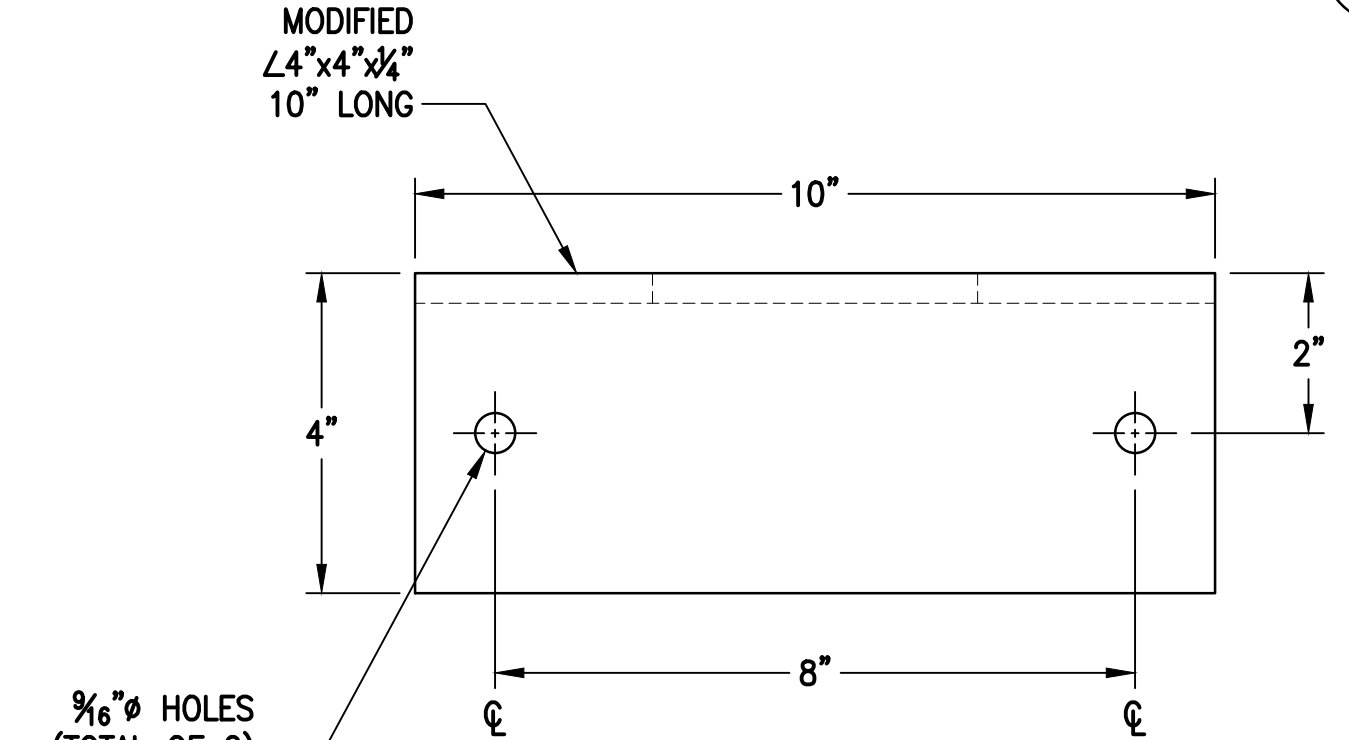
**TOP VIEW**

**UPPER MOUNTING BRACKET** 2  
S-1

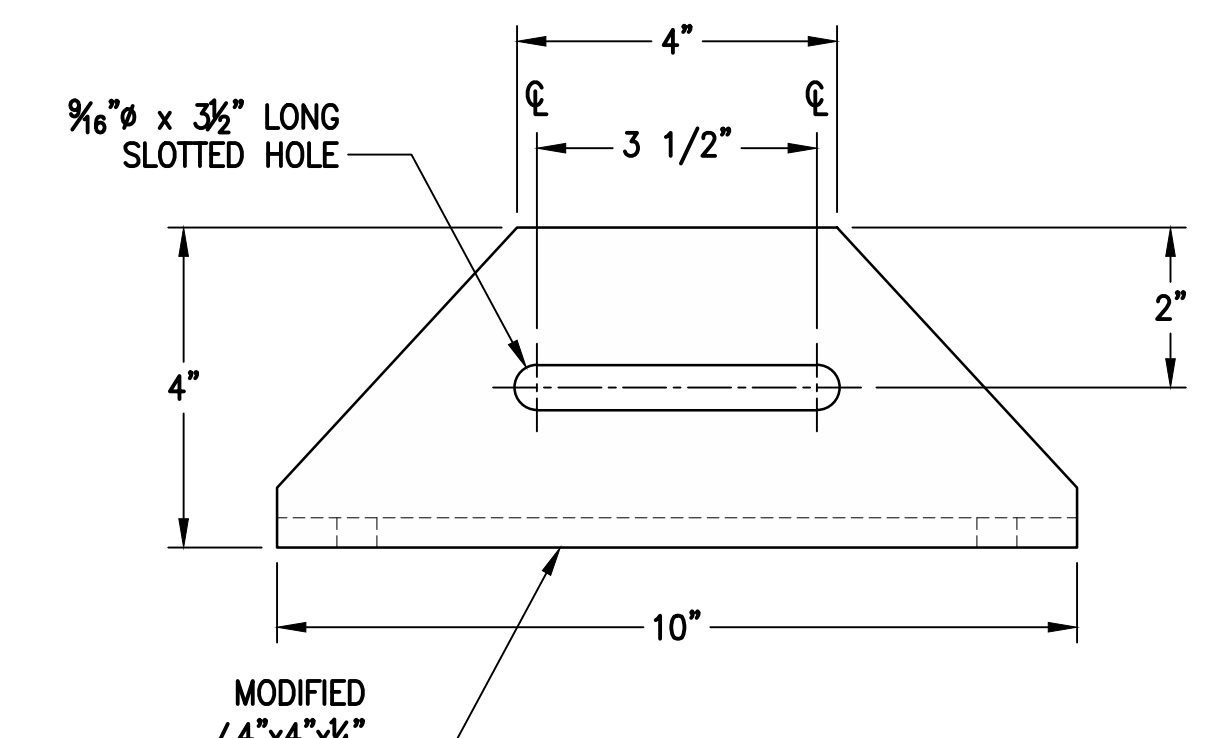


**GAMMA SECTOR**

**RRU MOUNTING DETAIL** 5  
S-1

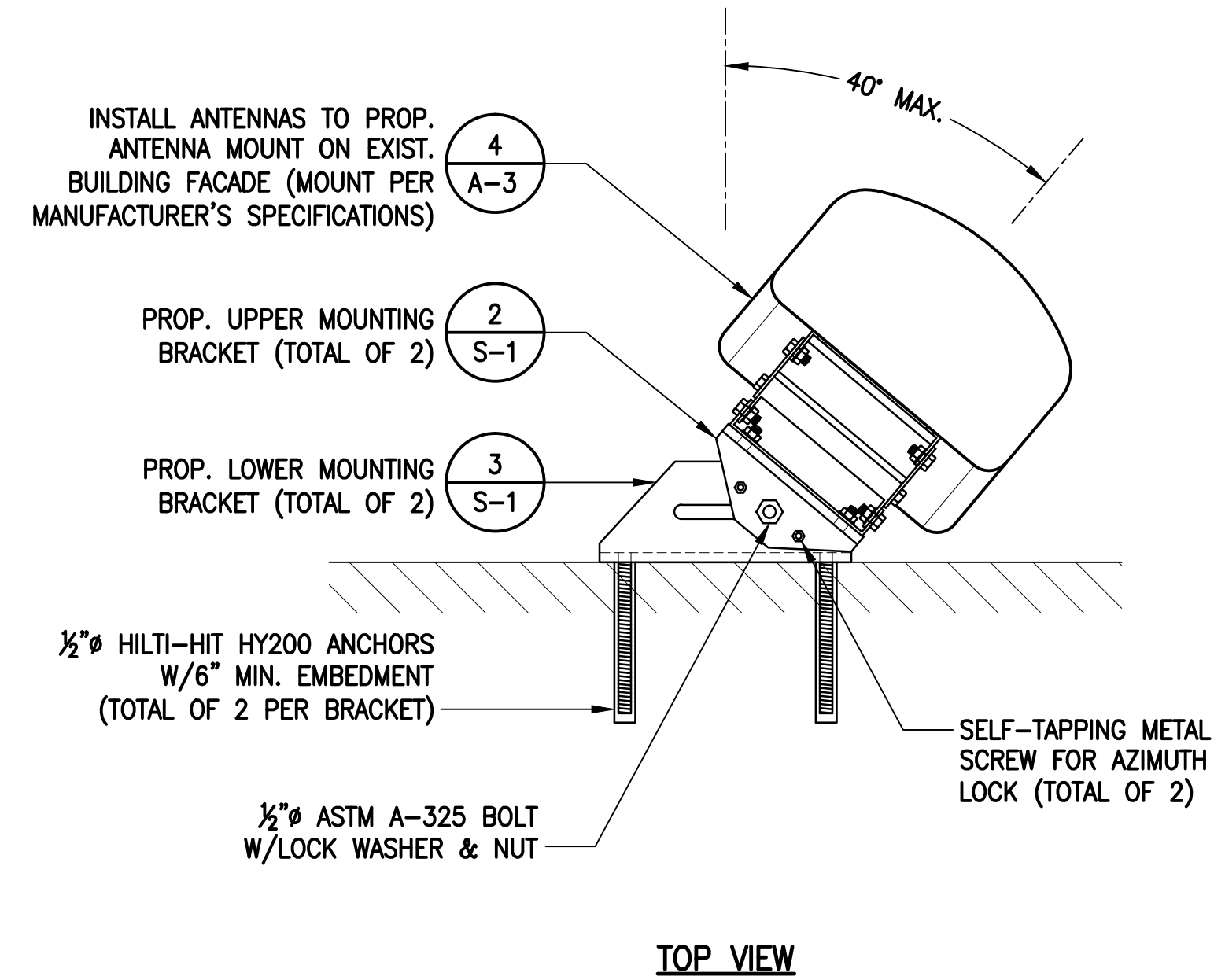


**FRONT VIEW**



**TOP VIEW**

**LOWER MOUNTING BRACKET** 3  
S-1



**ANTENNA MOUNTING DETAIL** 1  
S-1

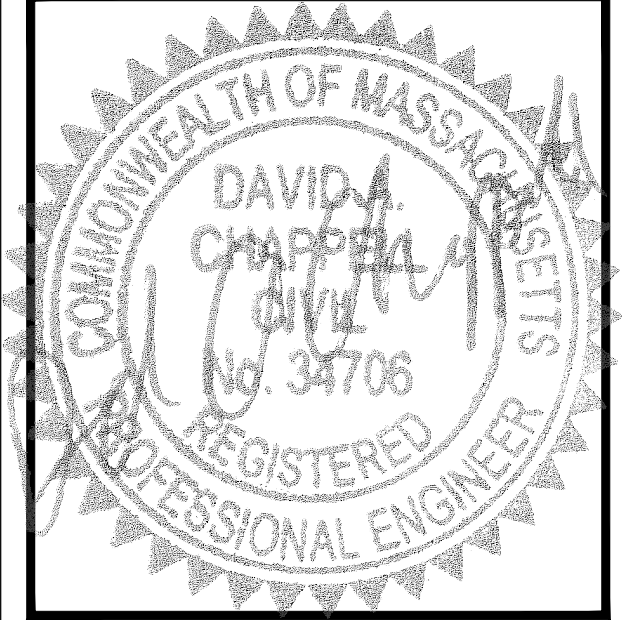
**Mobile**

T-MOBILE NORTHEAST LLC  
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766  
OFFICE: (508) 286-2700

**CHAPPELL ENGINEERING ASSOCIATES, LLC**

Civil · Structural · Land Surveying

R.K. EXECUTIVE CENTRE  
201 BOSTON POST ROAD WEST  
SUITE 101  
MARLBOROUGH, MA 01752  
(508)481-7400  
www.chappellengineering.com



**APPROVALS**

STRUCTURE OWNER \_\_\_\_\_

LEASING \_\_\_\_\_

R.F. \_\_\_\_\_

ZONING \_\_\_\_\_

CONSTRUCTION \_\_\_\_\_

A/E \_\_\_\_\_

PROJECT NO: 4DE7031B

DRAWN BY: CMC

CHECKED BY: JMT

**VERSION**

NO.	DATE	DESCRIPTION
1	04/27/16	CONSTRUCTION
0	12/01/15	CONSTRUCTION REVIEW

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.

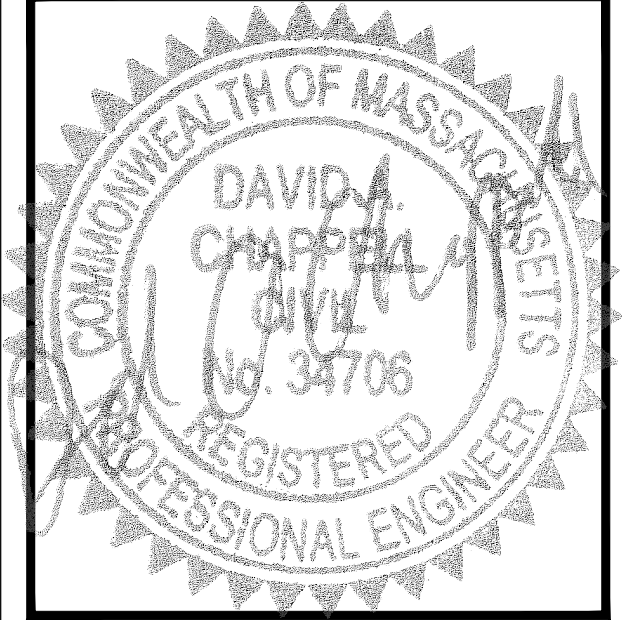
B0031/1221  
CAMBRIDGE STREET

1221 CAMBRIDGE STREET  
CAMBRIDGE, MA 02139

SHEET TITLE  
STRUCTURAL DETAILS

SHEET NUMBER  
S-1





APPROVALS

STRUCTURE OWNER \_\_\_\_\_

LEASING \_\_\_\_\_

R.F. \_\_\_\_\_

ZONING \_\_\_\_\_

CONSTRUCTION \_\_\_\_\_

A/E \_\_\_\_\_

PROJECT NO: 4DE7031B

DRAWN BY: CMC

CHECKED BY: JMT

VERSION

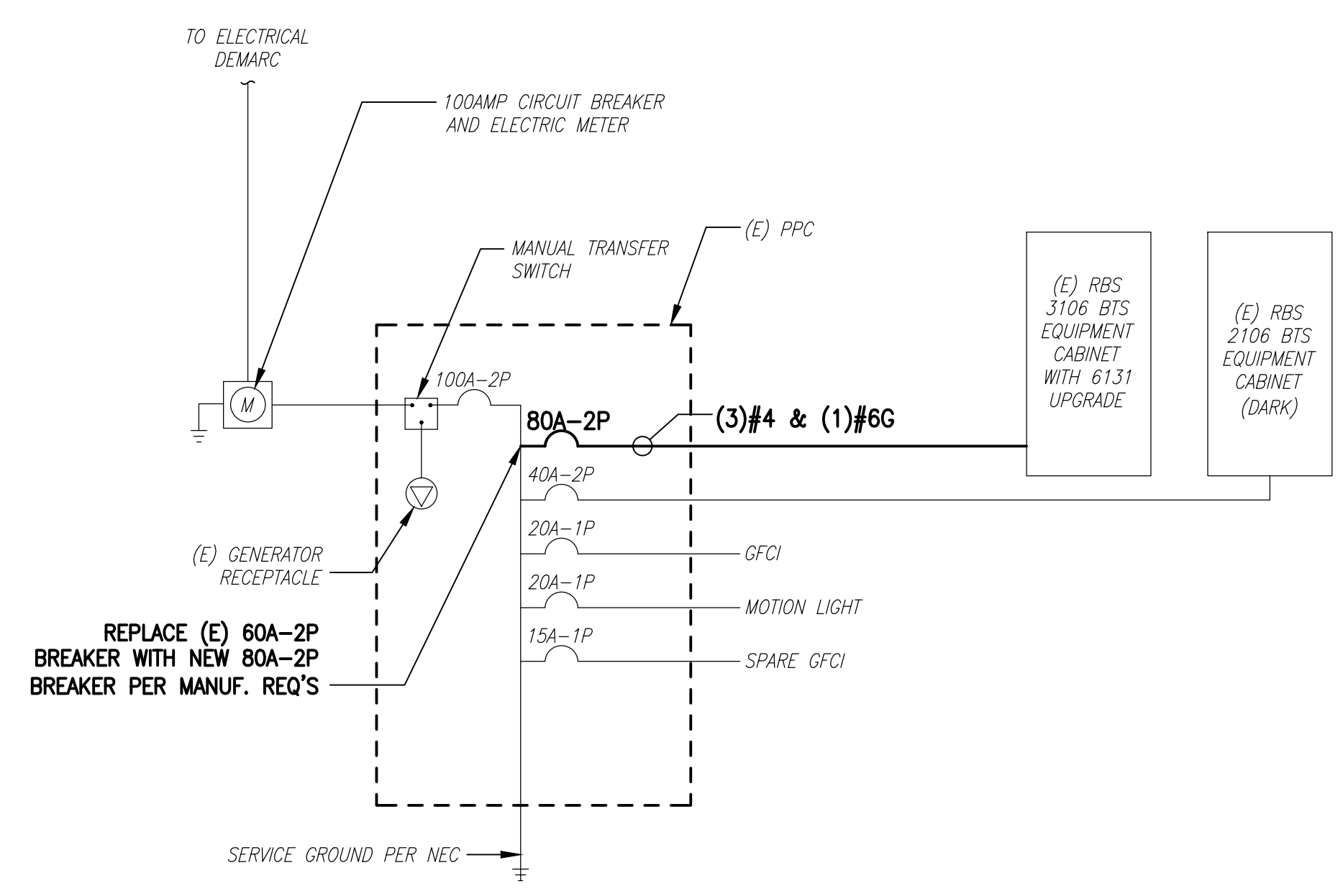
NO.	DATE	DESCRIPTION
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0	12/01/15	CONSTRUCTION REVIEW

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.

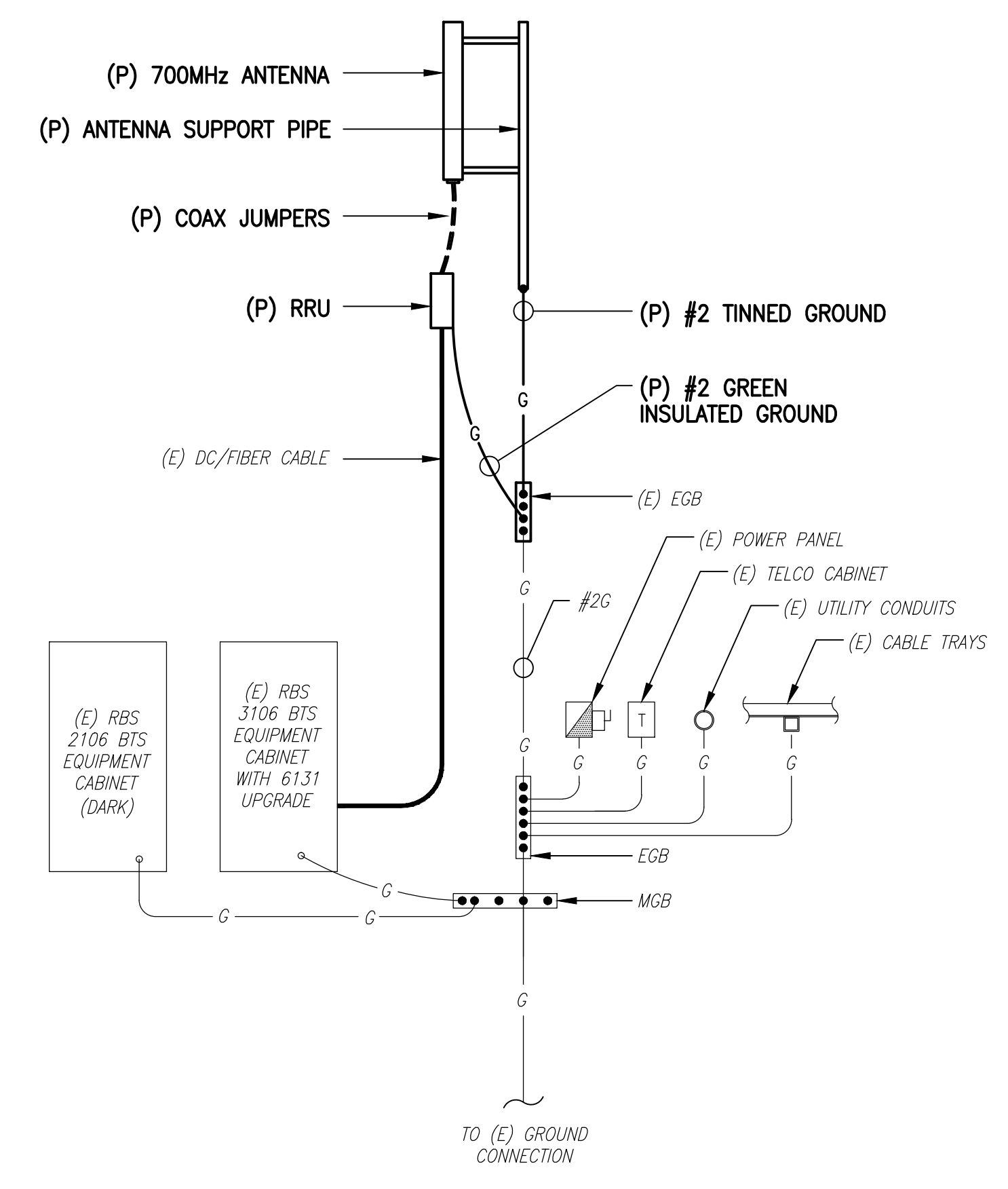
B0031/1221  
 CAMBRIDGE STREET  
 1221 CAMBRIDGE STREET  
 CAMBRIDGE, MA 02139

SHEET TITLE  
**ELECTRIC & GROUNDING DETAILS**

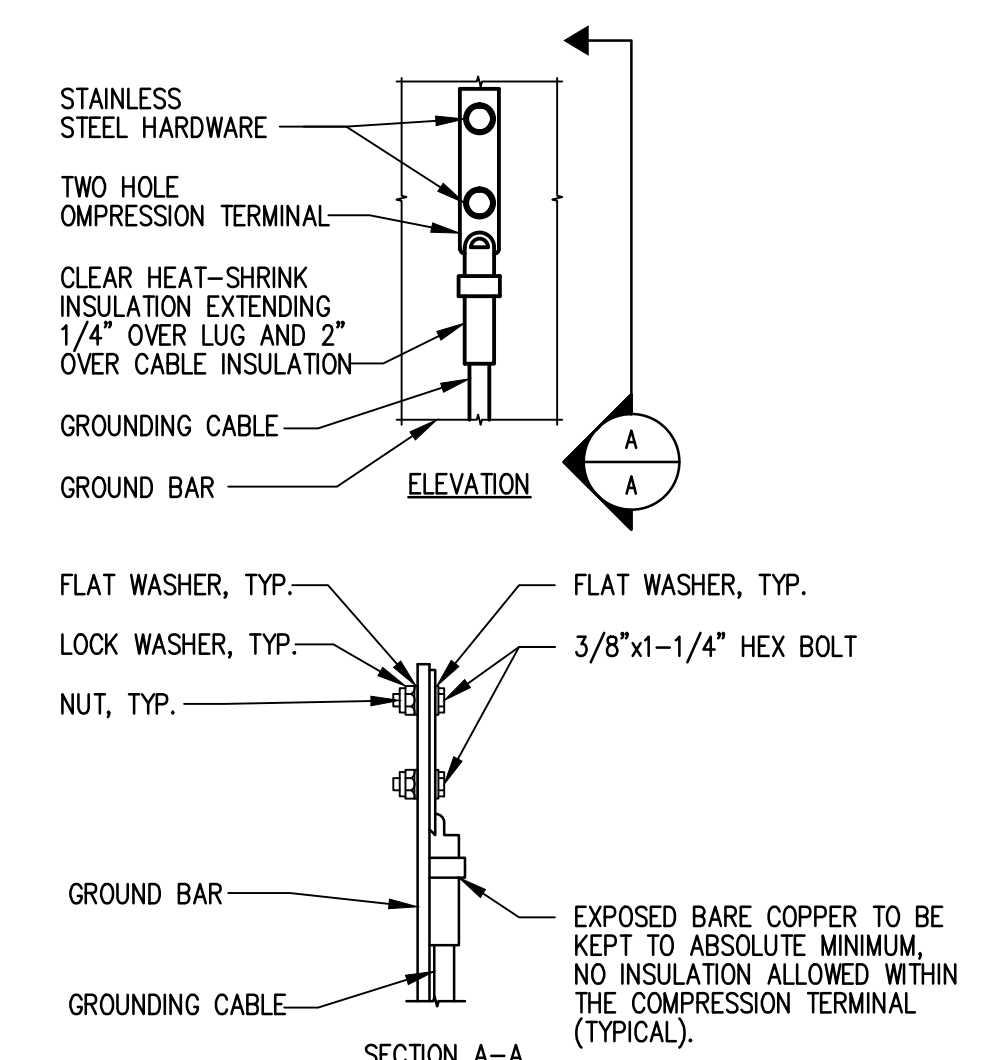
SHEET NUMBER  
**E-1**



**ONE LINE DIAGRAM**  
 SCALE: NOT TO SCALE

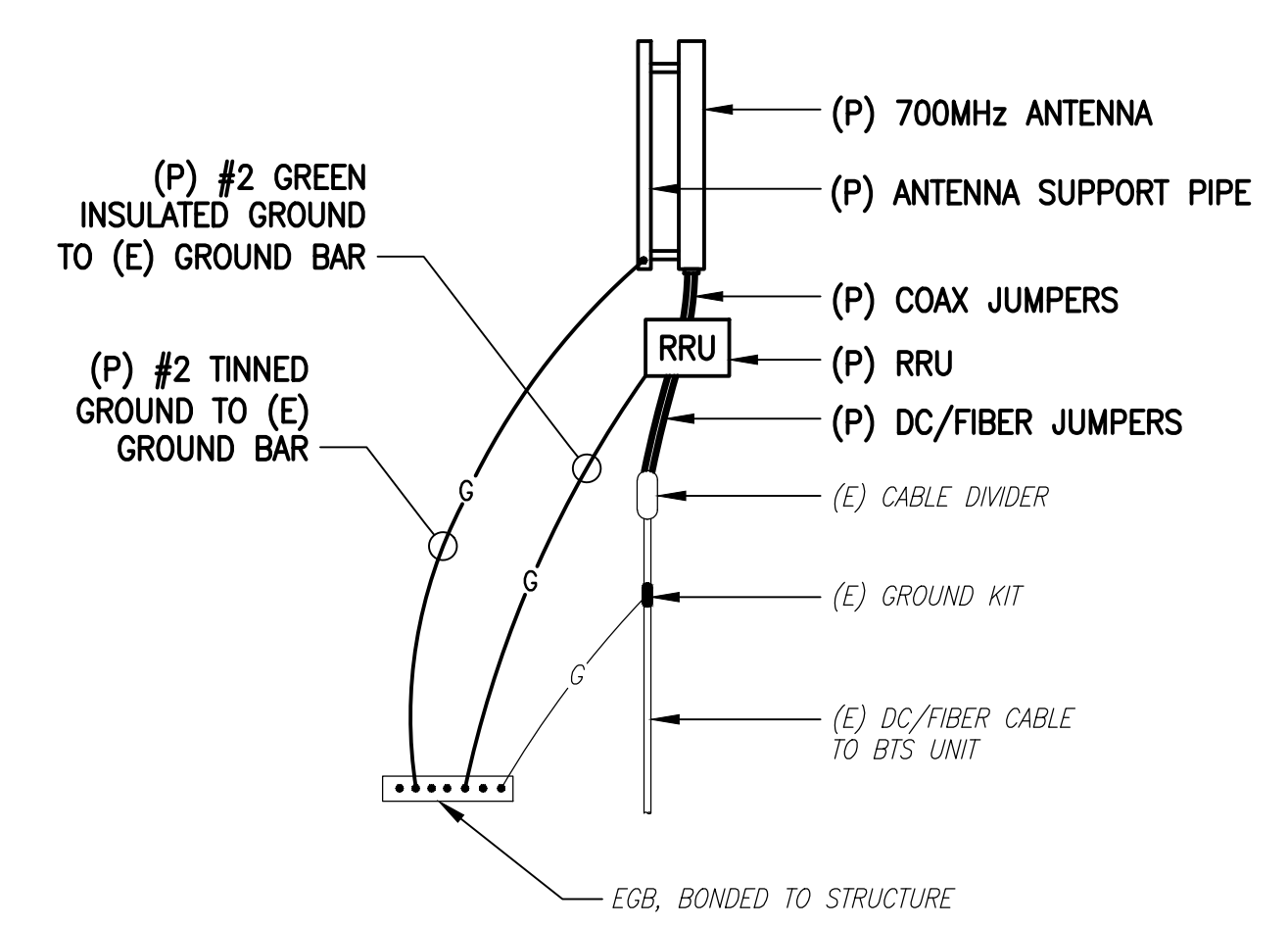


**GROUNDING RISER DIAGRAM**  
 SCALE: NOT TO SCALE

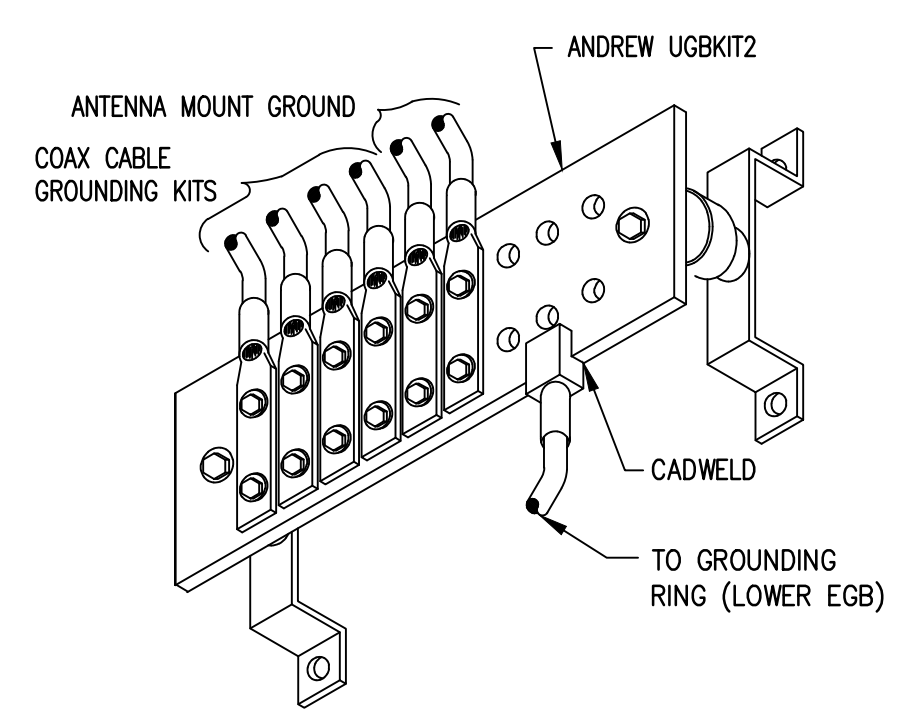


- NOTES:
- "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
  - OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
  - CADWELL DOWNLEADS FROM UPPER EGB, LOWER EGB AND MGB.

**TYPICAL GROUND BAR CONNECTIONS DETAIL**  
 SCALE: NOT TO SCALE



**HYBRID CABLE CONNECTION AND GROUNDING DETAIL**  
 SCALE: NOT TO SCALE



**GROUND BAR (EGB)**  
 SCALE: NOT TO SCALE

**ELECTRICAL AND 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.
- BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THININSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER 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.
- WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- PPC SUPPLIED BY PROJECT OWNER.
- GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE GROUNDING STANDARDS".
- GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE 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 PROJECT OWNER 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.
- CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXISTING TOWER/ MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
- CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.



**4**



15 Commerce Way  
Norton, MA 02766

**PHOTO SIMULATION**

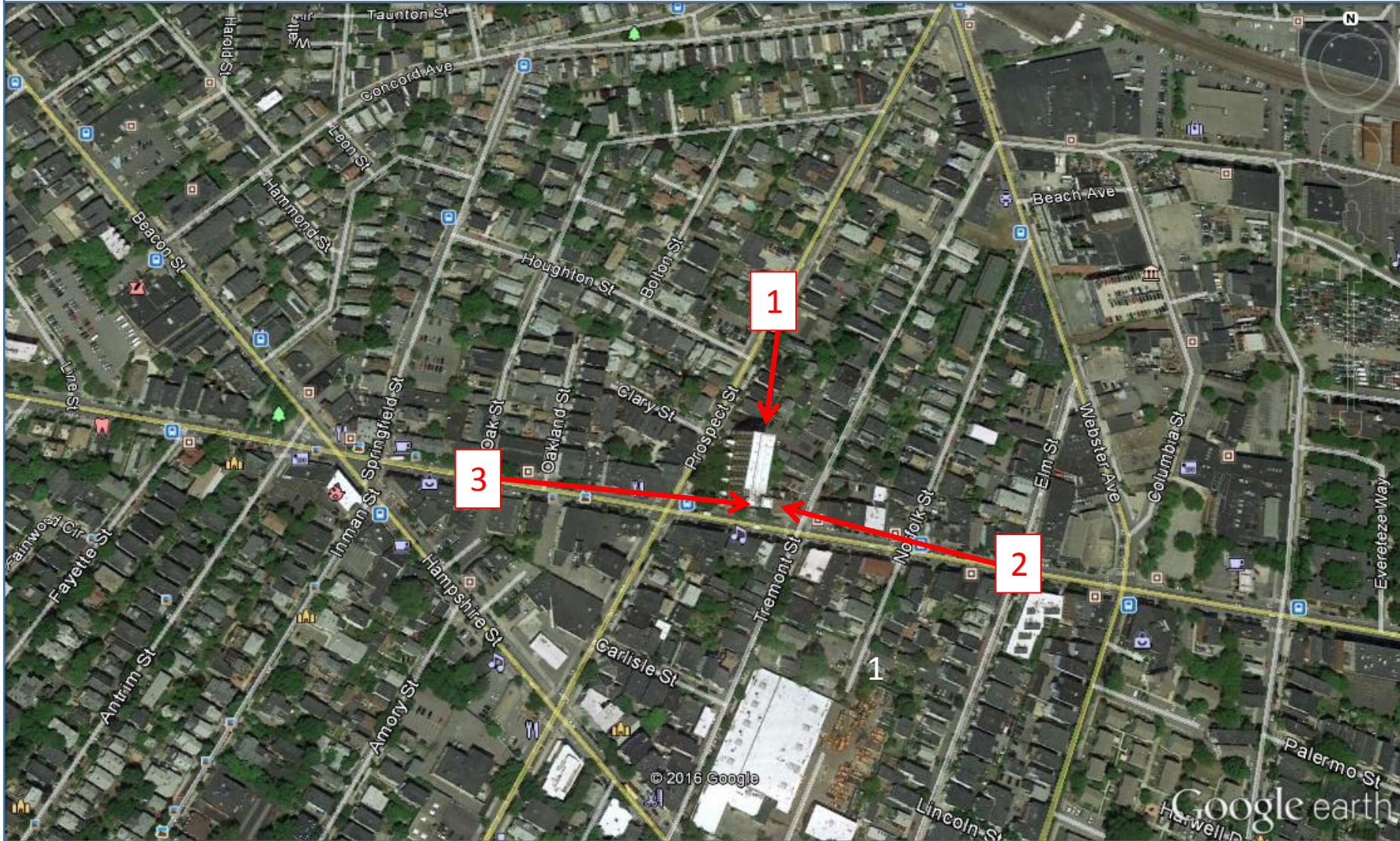
**4DE7031B**  
**BO031/1221 CAMBRIDGE STREET**

Address:  
**1221 CAMBRIDGE STREET**  
**CAMBRIDGE, MA 02139**

Date:  
**3 MAY 2016**

Prepared by  
**Nanepashemet Project**  
**Management, Inc.**  
**328 West Shore Drive**  
**Marblehead, MA 01945**

# PHOTO LOCATION MAP





# PHOTO LOCATION 1 - EXISTING

EXISTING ANTENNAS



**T** · · Mobile · · ·

4DE7031B - BO031/1221 CAMBRIDGE ST



# PHOTO LOCATION 1 - PROPOSED





# PHOTO LOCATION 2 - EXISTING



# PHOTO LOCATION 2 - PROPOSED

EXISTING ANTENNAS



PROPOSED ANTENNA

# PHOTO LOCATION 3 – EXISTING



EXISTING ANTENNAS



# PHOTO LOCATION 3 – PROPOSED



**5**

Federal Communications Commission  
Wireless Telecommunications Bureau

Radio Station Authorization (Reference Copy Only)

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.

Licensee: T-Mobile License LLC

ATTN Dan Menser  
T-Mobile License LLC  
12920 SE 38th St.  
Bellevue, WA 98006

FCC Registration Number (FRN): 0001565449	
Call Sign: KNLF954	File Number: 0002991471
Radio Service: CW - PCS Broadband	

Grant Date 06/05/2007	Effective Date 06/05/2007	Expiration Date 06/27/2017	Print Date 09/06/2007
--------------------------	------------------------------	-------------------------------	--------------------------

Market Number: BTA051	Channel Block: D	Sub-Market Designator: 0
Market Name: Boston, MA		

1st Build-out Date 06/27/2002	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
----------------------------------	--------------------	--------------------	--------------------

**Special Conditions or Waivers/Conditions** This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

**Conditions**  
Pursuant to Section 309(h) of the Communications Act of 1934, as amended, 47 U.S.C. Section 309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. Section 310(d). This license is subject in terms to the right of use or control conferred by Section 706 of the Communications Act of 1934, as amended. See 47 U.S.C. Section 606.

To view the geographic areas associated with the license, go to the Universal Licensing System (ULS) homepage at <http://wireless.fcc.gov/uls/> and select "License Search". Follow the instruction on how to search for license information

FCC 601 - MB

6



# City of Cambridge

MASSACHUSETTS

## BOARD OF ZONING APPEAL

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

2006 AUG -9 A 10:55

OFFICE OF THE CITY CLERK  
CAMBRIDGE, MASSACHUSETTS

CASE NO: 9306

LOCATION: 1221 Cambridge Street Business A Zone  
Cambridge, MA

PETITIONER: Omnipoint Communications Inc.  
C/o Peter Cooke

PETITION: Special Permit: Modification of existing wireless communication facility  
to allow for relocation of one antenna array.

VIOLATIONS: Art. 4.000, Sec. 4.32.G (Telecommunication Facility).

DATE OF PUBLIC NOTICE: June 2 & 9, 2006

DATE OF PUBLIC HEARING: June 22, 2006

MEMBERS OF THE BOARD:	THOMAS SIENIEWICZ – CHAIR	<input checked="" type="checkbox"/>
	JENNIFER PINCK – VICE CHAIR	<input type="checkbox"/>
	SUSAN SPURLOCK	<input checked="" type="checkbox"/>
	KEEFE B. CLEMONS	<input type="checkbox"/>
	CONSTANTINE ALEXANDER	<input checked="" type="checkbox"/>
ASSOCIATE MEMBERS:	BRENDAN SULLIVAN	<input checked="" type="checkbox"/>
	CHRISTOPHER CHAN	<input type="checkbox"/>
	PAUL D. GRIFFIN	<input type="checkbox"/>
	EDWARD W. WAYLAND	<input type="checkbox"/>
	TIMOTHY HUGHES	<input type="checkbox"/>
	STACYJHON THOMAS	<input checked="" 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.

Case No. 9306  
Location: 1221 Cambridge Street  
Petitioner: Omnipoint Communications Inc. c/o Peter Cooke

On June 22, 2006, Petitioner Peter Cooke appeared before the Board of Zoning Appeal requesting a special permit to modify the existing wireless communications facility to allow for the relocation of one antenna array. The Petitioner submitted plans and photographs.

Mr. Cooke stated that there existed a previously granted special permit for a telecommunications site at the property and that the proposal was to relocate one antennae. He stated that this relocation would solve a coverage problem. He stated that the antennae would be painted to camouflage it.

Jacqueline Schwartz, a tenant in the building, reviewed the plans without comment. The Chair noted that the proposed modification would not intensify the use at this site.

After discussion, the Chair moved that the Board grant the special permit based on findings consistent with previous findings made by the Board in the previous special permit case #7540 where the current proposed modification shows attempts to camouflage it at the roofline and where the impact on the community is no more than exists today. The Chair moved that, based on those findings, the Board grant the special permit on the following conditions:

1. that the work be in approximate conformance with drawings submitted in support of the application, entitled Job No. 4DE-7031B, consisting of Sheets T1, A1, A2, A3, and dated the 29<sup>th</sup> of September 2000, with a revision date of the 11<sup>th</sup> of January 2006, entitled Zoning File, and
2. that, should the equipment be abandoned or the lease expire at the location, it be removed from the location.


The five member Board voted unanimously in favor of granting the special permit (Sieniewicz, Spurlock, Sullivan, Alexander, and Thomas) with the above conditions. Therefore, the special permit is granted.

The Board based its decision upon 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 regulation 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.



Thomas Sieniewicz, Chair

Attest: A true and correct copy of decision filed with the offices of the City Clerk and Planning Board on 8/9/06 by Nancy Sackeo, Clerk.

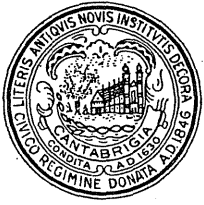
Twenty days have elapsed since the filing of this decision.

No appeal has been filed \_\_\_\_\_.

Appeal has been filed and dismissed or denied.

Date: \_\_\_\_\_ City Clerk.

40E70310



# City of Cambridge

MASSACHUSETTS

## BOARD OF ZONING APPEAL

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

### NOTICE OF DECISION

DECISION FILED WITH THE OFFICE OF THE CITY CLERK ON AUG 09 2006

Any person aggrieved by a decision of the Board of Zoning Appeal may appeal to the Superior Court or Land Court. Appeals, if any, shall be made pursuant to Section 17, Chapter 40A, Massachusetts General Laws and shall be filed within twenty calendar days from the above date, and a copy thereof shall be filed with the Cambridge City Clerk's office by that same date.

PREMISES: 1221 Cambridge Street  
Cambridge, MA

PETITIONER: Omnipoint Communications Inc.  
C/o Peter Cooke

PETITION: Special Permit: Modification of existing wireless communication facility to allow for relocation of one antenna array.

DECISION: **GRANTED W/ CONDITIONS**

CASE NO: 9306

\*For full details, please refer to the decision available at Inspectional Services Dept.





# City of Cambridge

MASSACHUSETTS

## BOARD OF ZONING APPEAL

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

2012 NOV 16 AM 10 28  
OFFICE OF THE CITY CLERK  
CAMBRIDGE, MASSACHUSETTS

CASE NO: 10325

LOCATION: 1221 Cambridge Street  
Cambridge, MA

Business A Zone

*Refer!*

*owners Inman CAST LLC*  
PETITIONER: T-Mobile Northeast, LLC  
C/o Jackie Slaga, Agent



2012 00280012  
Bk: 60778 Pg: 22 Doc: DECIS  
Page: 1 of 3 12/19/2012 02:29 PM

PETITION: Special Permit: In-kind replacement of existing 6 antennas with new antennas; addition of 1 small footprint cabinet adjacent to existing cabinets. All antennas will be mounted in the same location and painted to match façade of building.

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

*506 83-555*

DATE OF PUBLIC NOTICE: September 13 & 20, 2012

DATE OF PUBLIC HEARING: September 27, 2012

MEMBERS OF THE BOARD:

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

ASSOCIATE MEMBERS:

MAHMOOD R. FIROUZBAKHT	<input checked="" type="checkbox"/>
DOUGLAS MYERS	<input checked="" type="checkbox"/>
SLATER W. ANDERSON	<input checked="" type="checkbox"/>
TAD HEUER	<input type="checkbox"/>
JANET GREEN	<input checked="" type="checkbox"/>
ANDREA A. HICKEY	<input type="checkbox"/>
KEVIN C. McAVEY	<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.

*1221 Cambridge St.  
Cambridge, MA*

Case No. 10325  
Location: 1221 Cambridge Street  
Petitioner: T-Mobile NE, LLC c/o Jackie Slaga

On September 27, 2012, 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 mounted in the same location with low profile mounts and painted to match the façade and to add one small footprint cabinet. 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 the Petitioner wished to upgrade its existing specially permitted wireless facility as part of a system wide upgrade. He stated that new antennas would simply replace existing ones and that everything would be painted so as to reduce visual impacts, and that there would be at least a one foot clearance from the top of the roof line to the top of the antennae. He also agreed to replace the pole mounts with low profile mounts. He stated that there was an increasing need for more coverage. He stated that the Petitioner was FCC licensed.

The Chair stated that this installation was not in a residential zoning district. The Chair also stated that should the Petitioner later wish to replace or upgrade its equipment that it return to the Board. The Chair asked if anyone wished to be heard on the matter, no one indicated such.

After discussion, the Chair moved that the Board grant the special permit for relief in order to replace six existing antennas with new antennas mounted in the same location and painted to match the façade and to add one small footprint cabinet based on the finding that the requirements of the Ordinance were met. The Chair moved that the Board find that traffic generated and patterns of access and egress would not cause congestion, hazard or substantial change in the established neighborhood character. The Chair moved that the Board find that there was an existing telecommunications facility on the building, which had not created any deleterious effects. The Chair moved that the Board find that the continued operation of or development of adjacent uses as permitted under the Ordinance would not be adversely affected, but would rather be enhanced by the upgraded equipment. The Chair moved that the Board find that there would not be any nuisance or hazard created to the detriment of the health, safety or welfare of the occupants of the proposed use or to the citizens of the city, and that the proposed use would not impair the integrity of the district or adjoining districts, or otherwise derogate from the intent and purpose of the Ordinance. The Chair moved that the




Board grant the special permit on the condition that the work be performed as per the photo simulations and plans submitted.

The five member Board voted unanimously in favor of granting the special permit (Sullivan, Green, Myers, Anderson, and Firouzbakht) with the above condition. 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.

  
Brendan Sullivan, Chair

Attest: A true and correct copy of decision filed with the offices of the City Clerk and Planning Board on 11-16-12 by Mario Pacheco, 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: December 19, 2012 Roanna P. Lopez City Clerk.

**7**

July 29, 2016

**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 **1221 Cambridge Street, Cambridge, MA 02139.**

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 1221 Cambridge Street, Cambridge, MA 02139.

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 one hundred and forty feet and nine inches (140’ 9”) 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 one hundred and forty feet and nine inches (140’ 9”) high. The proposed addition of three (3) new panel antennas will not affect the height of the Base Station.
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 three (3) proposed antennas will not protrude from the edge of the building and therefore will not exceed the six (6) foot limitation. All of the

proposed antennas will be façade mounted and together with the mounting equipment will extend no more than one (1) foot from the existing building. As such, the proposed modification will not protrude from the edge of the building by more than six (6) feet.

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. There are currently three (3) equipment cabinets existing at the Base Station. 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. The Applicant is proposing to install three (3) new antennas consistent with its existing antennas. 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 August 9, 2006 (Case No. 9306) (the “Original Decision”) and a second decision dated November 16, 2012 (Case No. 10325) (the “Previous Decision”) (together, the Original Decision and the Previous Decision shall hereafter be referred to as the “Decisions”), both of which are 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 addition of the three (3) new antennas will not defeat the existing stealth design all antennas will be painted to match the existing building, mounted on low-profile mounts and installed one (1) foot below the top of the roof line. All equipment will be designed to blend into the existing building. 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.

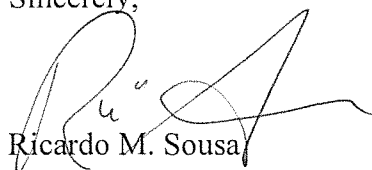
There is a certification attached to the accompanying Eligible Facilities Request that identifies how each of the six review criteria identified by the FCC is met. The modifications to the Transmission Equipment at the Base Station located at 1221 Cambridge Street, Cambridge, MA 02139 contained in this 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](mailto: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: 1221 Cambridge Street

**Existing Facilities**

The Existing Facility is comprised of six (6) panel antennas all mounted to 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: 140' 9" (feet)

Height above ground level of the tallest point of the existing base station after the installation of the *proposed* equipment: 140' 9"(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: Pursuant to the previous decisions by the Board of Zoning Appeal for the City of Cambridge (the "Board") for this site, dated August 9, 2006 (Case No. 9306) (the "Original Decision") and a second decision dated November 16, 2012 (Case No. 10325) (the "Previous Decision") (together, the Original Decision and the Previous Decision shall hereafter be referred to as the "Decisions"), the existing panel antennas are located in the preferred location on the building. The addition of the three (3) new antennas will not defeat the existing stealth design all antennas will be painted to match the existing building, mounted on low-profile mounts and installed one (1) foot below the top of the roof line. Furthermore, all proposed antennas will be integrated into the building to the extent possible. As such, the three (3) new antennas will be in conformity with the Decision and do not defeat the existing stealth design. The proposed installations will not substantially increase the facility and as such the proposed visual impact will be de minimus for many of the same reasons stated in the Decisions attached hereto.


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 Decisions. Furthermore, in the Decisions 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.

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This certification is dated this 29th day of July, 2016.

  
\_\_\_\_\_  
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:

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List Cabinets that will be Removed at the Site:

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Permit Application Deposit Amount: \_\_\_\_\_

Municipal Consultant Review Fee Deposit (if applicable): \_\_\_\_\_



# 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.**

<b>Building Address</b>	1221 Cambridge St., Cambridge MA	
<b>Building Owner</b>	Inman Cast LLC	Phone # 617-492-7818
<b>Owner Address</b>	1221 Cambridge St., Cambridge, MA 02139	
<b>Contractor</b>	NanepasNemat Property Svcs	Phone # 978-727-6516
<b>Contractor Address</b>	328 Westshore Dr., Marblehead, MA 01945	
<b>Architect/Engineer</b>	Chappell Engineering	Phone # 508-481-7400
<b>Address</b>	201 Boston Post Rd West, Marlborough, MA 01551	

<b>TYPE OF WORK:</b> New Construction <input type="checkbox"/>	Addition <input type="checkbox"/>	Change of Occupancy <input type="checkbox"/>
Repair <input type="checkbox"/>	Alteration Level 1 <input type="checkbox"/>	Alter Level 2 <input type="checkbox"/> Alter Level 3 <input type="checkbox"/> Roof <input type="checkbox"/>

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

<b>Current Use</b>	Business A (BA)	<b>Proposed Use</b>	No change
<b>For Residential Use: Current number of dwelling units</b>	NA	<b>Proposed number of dwelling units</b>	NA
<b>Building Construction type:</b>			
Non-Combustible (Type I/II)	<input checked="" type="checkbox"/>	Masonry/Wood (III)	<input type="checkbox"/> Wood (IV,V) <input type="checkbox"/>
<b>Building Equipped with :</b> Sprinkler System: <input checked="" type="checkbox"/> /No <input type="checkbox"/> Fire Alarm: <input checked="" type="checkbox"/> /No <input type="checkbox"/> Smoke Detection: Yes / No <input type="checkbox"/>			
<b>Provide a description of the building:</b> 12 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).

T-mobile proposal to modify existing installation by adding add'l antennas & auxiliary equip. necessary for system performance. New (a) antennas - will be total, painted to match building

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

## ESTIMATED COST OF CONSTRUCTION:

Building	\$ 25,000	HVAC	
Electric		Sprinklers	
Plumbing/Gas		Fire Detection	
Gas Fitting		Fire Suppression	

**Total Estimated Cost of Construction** \$ 25,000

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 BA Proposed Use No Change Zone BA BZA/PB Case # \_\_\_\_\_

For residential: Current number of dwelling units N/A Proposed number of dwelling units N/A

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 1<sup>st</sup> floor level, build roof decks over existing 1<sup>st</sup> or 2<sup>nd</sup> 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 2<sup>nd</sup> floor level or higher, roof decks over the 3<sup>rd</sup> 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](http://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 John Nestor

Title Construction Supervisor

Signature \_\_\_\_\_

Registration/License # 47636

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 ft<sup>3</sup> must meet the requirements of Sec.107.6 & Chapter 17, MSBC.

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

Name David Chappell Phone # 508-481-7400  
Firm Chappell Engineering Associates, LLC Cell Phone# \_\_\_\_\_  
Address 201 Boston Post Road West, Suite 101 Melborough, MA 01752  
MA Registration Number 34706 Email Address: \_\_\_\_\_

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 John Nestor Phone # 781-727-6516  
Address 328 West Shore Drive, Melbourn, MA Cell Phone # \_\_\_\_\_  
License Number 47636 Expiration Date 12/06/2017 Class CS  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Email Address jnestor@nanpack.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 \_\_\_\_\_ Phone # \_\_\_\_\_  
Address \_\_\_\_\_  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Email Address \_\_\_\_\_

**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

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

Signature Date

I certify that I will notify the Building Official by (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 he appropriate form for attachment to the Building Permit

Signature Date

OFFICIAL USE ONLY

Department Approvals

BZA Date Electrical Date
Planning Board Date Plumbing Date
Historic Date D.P.W. Date
Fire Dept. Date Parking Date

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



Massachusetts Department of Public Safety  
Board of Building Regulations and Standards

License: **CS-047636**  
**Construction Supervisor**



JOHN J NESTOR  
328 W SHORE DR  
MARBLEHEAD MA 01945



*Matthew C. Chi*  
Commissioner

Expiration:  
12/06/2017



# CERTIFICATE OF LIABILITY INSURANCE

9NANE01

OP ID: DC

DATE (MM/DD/YYYY)

03/16/2016

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).

<b>PRODUCER</b> John J Walsh Ins Agency, Inc P O Box 4407 Salem, MA 01970-6407 David C Bruett	<b>CONTACT NAME:</b> David C Bruett <b>PHONE (A/C, No, Ext):</b> 978-745-3300 <b>E-MAIL ADDRESS:</b> dbruett@walshinsurance.com	<b>FAX (A/C, No):</b> 978-745-9557	
	<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
<b>INSURED</b> Nanepashemet Project Management, Inc. 328 West Shore Drive Marblehead, MA 01945	<b>INSURER A :</b> The Hartford		<b>40274</b>
	<b>INSURER B :</b> Citation Insurance Company		
	<b>INSURER C :</b> Landmark Insurance		
	<b>INSURER D :</b> Everest Indemnity Co.		
	<b>INSURER E :</b> Philadelphia Insurance Co		
	<b>INSURER F :</b> Century Surety Company		

**COVERAGES****CERTIFICATE NUMBER:****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	X	X	08SBAUQ3098	03/01/2016	03/01/2017	EACH OCCURRENCE \$ 2,000,000
D	<input checked="" type="checkbox"/> Pollution-\$5 Mil			EF4P004079141	07/02/2015	07/02/2016	DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000
E	<input checked="" type="checkbox"/> Perform Bond			CE11659000006	07/01/2015	07/01/2016	MED EXP (Any one person) \$ 10,000
	GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 4,000,000 Bond Amt. \$ 250,000
B	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			RXQ120	03/01/2016	03/01/2017	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 type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000	X		08SBAUQ3098	03/01/2016	03/01/2017	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
A	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y/N If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	08WECDO7725 ALL STATES	01/04/2016	01/04/2017	<input type="checkbox"/> PER STATUTE <input checked="" type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C	Professional			LHR71664	03/01/2016	03/01/2017	Occ/Aggr Limit \$ 1,000,000
A	Installation			08MSRO2589	03/01/2016	03/01/2017	Limit \$ 100,000

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

AT&T and its Affiliates, Directors, Officers and Employees are listed as additionally insured. Waiver of subrogation in favor of AT&T, its affiliates, directors, officers and employees on workers comp and general liability. Primary and non contributory.

**CERTIFICATE HOLDER****CANCELLATION**

<b>AT&amp;T Services, Inc.</b> 4119 Broadway Room 650A16 San Antonio, TX 78209	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 
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1771 Cambridge St.

Petitioner 1 of 3

82-83  
MCLEOD, RENEE & MICHAEL J. WALKER  
372A PROSPECT ST.  
CAMBRIDGE, MA 02139

82-89  
LEE, HEIDE U. & MARIANO ANG  
128 TREMONT ST.  
CAMBRIDGE, MA 02139

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

83-67  
BENSON, KIMBERLY V.  
353 PROSPECT ST. UNIT#1  
CAMBRIDGE, MA 02139

82-5  
CERQUEIRA, MARIO & ANA CERQUEIRA  
23 WAREHAM ST  
MEDFORD, MA 02155

82-9  
SANTOS, NATALIA ANTONIO & ALICE MOURA  
109 TREMONT ST  
CAMBRIDGE, MA 02139

82-10  
SOUSA, JOSE R. & DONNA M. SOUSA  
134 WEBSTER AVE  
CAMBRIDGE, MA 02141

82-12  
SCIANDRA, CARMELA R.  
P.O. BOX 410192  
CAMBRIDGE, MA 02141

82-34  
BOSEL, RICHARD  
122 TREMONT ST.  
CAMBRIDGE, MA 02139

83-67  
LITTMAN, ADAM L. &  
KRISTIN LEIGH KELLENBERGER  
1259 CAMBRIDGE ST. UNIT#3  
CAMBRIDGE, MA 02139

83-67  
MCGARRY, ANTHONY & MARY MCGARRY  
88 EAST 237 ST  
BRONX, NY 10470

83-52  
STEINBERGH, ALEX M. TR.  
C/O RESOURCE CAPITAL GROUP,  
BOX #391677  
17 IVALOO ST., SUITE#100  
SOMERVILLE, MA 02143

84-20  
CHASE, JEFFREY J., BRIAN CHASE &  
KARYN CHASE  
1222 CAMBRIDGE ST., UNIT 2  
CAMBRIDGE, MA 02139

83-67  
SCHEIDT, REBECCA A. & RYAN J. SHAWGO  
1257 CAMBRIDGE ST. UNIT#2  
CAMBRIDGE, MA 02139

84-20  
JOHNSON, CHRISTOPHER D.  
1222 CAMBRIDGE ST. UNIT#6  
CAMBRIDGE, MA 02139

84-67  
KAPASI, ONALY A. & CHANDER M. KAPASI,  
TRS. OF ONY'S COMET TRUST  
356 PARKER STREET  
NEWTON, MA 02459

84-87  
LAURINO, RICHARD & JOSEPH LAURINO,  
TRS. OF RJJ REALTY TRUST  
1232 CAMBRIDGE STREET  
CAMBRIDGE, MA 02139

83-67  
WFB FUTURAMA RENTALS, LLC  
C/O ZHU, YILUN  
1245-1273 CAMBRIDGE ST., #12472  
CAMBRIDGE, MA 02139

84-22  
GOMES, FERNANDO J. & MANUELA ALMEIDA  
14 ALTO DR  
MEDFORD, MA 02155

84-20  
WONG, CHUN KEUNG & QIN WONG, TR J.Q  
REALTY TRUST & CITY OF CAMBRIDGE TAX TIT  
12 FLEMING RD  
MALDEN, MA 02148

82-82  
JEAN-LOUIS, PHILIPPE  
C/O DUO INVESTMENTS, LLC  
60 HIGHLAND RD.  
SOMERVILLE, MA 02144

84-20  
WANG, CHUN KEUNG & YU QIN LIN WONG  
1224 CAMBRIDGE ST  
CAMBRIDGE, MA 02139

83-67  
MURPHY, GISELE A.  
1247 CAMBRIDGE ST UNIT #3  
CAMBRIDGE, MA 02139

84-20  
KATZ, ABBIE H.  
1218-1 CAMBRIDGE ST  
CAMBRIDGE, MA 02139

83-67  
WFB FUTURAMA RENTALS LLC,  
C/O RESOURCE CAPITAL GROUP  
17 IVALOO ST. STE 100  
SOMERVILLE, MA 02143

84-20  
GEARIN, SEAN & STACEY HESS  
1228 CAMBRIDGE ST., #12281  
CAMBRIDGE, MA 02139

82-7  
SOUSA, MARIA I. & MANUEL R. SOUSA  
51 MARATHON ST.  
ARLINGTON, MA 02474

82-86  
WU, HENRY  
380 PROSPECT ST 2  
CAMBRIDGE, MA 02139

83-67  
CAMPBELL, MATTHEW  
1245-1273 CAMBRIDGE ST., #12493  
CAMBRIDGE, MA 02139

83-67  
IRNA RE, LLC  
C/O SUDIANTI, NI MADE &  
1269 CAMBRIDGE ST., #2  
CAMBRIDGE, MA 02141

82-101  
COMSTOCK, THADD M. & ELAINE MERKEL  
135 TREMONT ST  
CAMBRIDGE, MA 02139

84-20  
FINCKE, STEVEN C.  
57 WALTON PARK  
MELROSE, MA 02176

84-20  
GLYNN, DAVID M. & ELIZABETH FISH  
1222 CAMBRIDGE ST.. UNIT#1  
CAMBRIDGE, MA 02139

83-67  
JENKINS, JONAH JAY  
1259 CAMBRIDGE ST., UNIT #2  
CAMBRIDGE, MA 02139

84-20  
FILIOS, CASSANDRA M.  
1218 CAMBRIDGE ST., #3  
CAMBRIDGE, MA 02139

83-67  
PASTERNAK, GEDALIA  
1267-3 CAMBRIDGE ST  
CAMBRIDGE, MA 02139

84-20  
DHOND, RUPALI P.  
1222 CAMBRIDGE ST. UNIT#3  
CAMBRIDGE, MA 02139

82-36  
MARCINKEWICH, JOSEPH & MAUREEN  
TRS. THE MARCINKEWICH FAMILY TRUST  
52 ROSS ST.  
MEDFORD, MA 02155

83-67  
STANFORD, LELAND A. & AMY M. WHITFORD  
353 PROSPECT ST. UNIT#3  
CAMBRIDGE, MA 02139

83-67  
MAK, DUNCAN  
353 PROSPECT ST. UNIT#2  
CAMBRIDGE, MA 02139

84-20  
JWOUA LLC,  
C/O WALTER SOUSA  
17 PRESTON ROAD  
SOMERVILLE, MA 02143

82-102  
QUELHA. ANABELA C. &  
SUSANA Q. SANTOS TRUSTEES  
309 CARDINAL MEDEIROS AVE  
CAMBRIDGE, MA 02139

84-20  
HERLIHY, KARA M. & PAUL AESENAULT  
1228 CAMBRIDGE ST., #4  
CAMBRIDGE, MA 02139

83-67  
CHOU, PIERRY JWOYU  
1269 CAMBRIDGE ST. UNIT#3  
CAMBRIDGE, MA 02139

82-86  
IYER, VISHAL & ANAHITA DASTUR  
378 PROSPECT ST., #1  
CAMBRIDGE, MA 02139

82-86  
FISKE, BRIAN PRESCOTT  
380 PROSPECT ST., #2  
CAMBRIDGE, MA 02139

82-1  
UZZELL, BRYAN  
384 PROSPECT ST. UNIT#1  
CAMBRIDGE, MA 02139

84-20  
JONES, STEPHANIE A.  
1222 CAMBRIDGE ST, UNIT #5  
CAMBRIDGE, MA 02139

82-1  
SHEPERD, JENNIFER & MEREDITH C. SHEPHERD  
384 PROSPECT ST. #3  
CAMBRIDGE, MA 02139

82-1  
PASTERNAK, GEDALIA & RACHELA ELIAS  
384 PROSPECT ST., #4  
CAMBRIDGE, MA 02139

83-43  
SULLIVAN, DANIEL A.  
377 PROSPECT ST  
CAMBRIDGE, MA 02139

82-8  
INMAN CAST LLC,  
C/O HOMEOWNERS REHAB INC.  
6 FANEUIL HALL MARKET PL  
BOSTON, MA 02109

84-20  
PEVEAR, WILLIAM W. III  
1218-1228 CAMBRIDGE ST. UNIT#1222/4  
CAMBRIDGE, MA 02139

83-67  
SUCHINDRAN, SUJIT & DEEPTI RAO  
1267 CAMBRIDGE ST. - UNIT #1267-#2  
CAMBRIDGE, MA 02139

83-67  
FORMATO, JAMES E. & MEGAN P. S. FORMATO  
C/O BIRMINGHAM, KEVIN B.  
1249 CAMBRIDGE ST., #2  
CAMBRIDGE, MA 02139

82-70  
CAIRA, DOUG & CHERYL CAIRA  
114 TREMONT ST  
CAMBRIDGE, MA 02139

84-20  
MASHBURN, NICHOLAS C. &  
GWENDOLYN R. HEIMBURG  
1228 CAMBRIDGE ST. UNIT#3  
CAMBRIDGE, MA 02139

84-20  
CIOFFI, ANGELIQUE  
1218 CAMBRIDGE ST. UNIT B  
CAMBRIDGE, MA 02139

83-44  
CHARLES, LIONEL & REINA CHARLES  
C/O ZHENG, DENNY, TRUSTEE  
45 BIRCH ST  
BRAINTREE, MA 02184

84-20  
TIGHE, ALEXANDER P. & ERIN L. TIGHE  
1228 CAMBRIDGE ST., UNIT #2  
CAMBRIDGE, MA 02138

82-85  
RODLEY, JAMES JOSEPH &  
CLAIRE E. RODLEY TRUSTEE  
366 PROSPECT ST  
CAMBRIDGE, MA 02139

83-45  
WANG, YAN,  
TRUSTEE THE YAN WANG FAMILY TRUST  
4979 SMITH CANYON CT.  
SAN DIEGO, CA 92130

82-84  
FERREIRA, LAURINDA M., MONICA C. AZEVEDO &  
VANESSA T. FERREIRA  
370 PROSPECT ST  
CAMBRIDGE, MA 02139

84-21  
KINGSLEY BRIGHTWOOD LLC  
C/O HIGH STREET PROPERTY MGMT CORP  
92 HIGH ST., SUITE 22  
MEDFORD, MA 02155

82-11  
TUPELO, LLC &  
CITY OF CAMBRIDGE TAX TITLE  
1191 CAMBRIDGE ST  
CAMBRIDGE, MA 02139

82-1  
SNEE, EADAOIN  
384 PROSPECT ST., #2  
CAMBRIDGE, MA 02139

84-23  
1190 CAMBRIDGE STREET LLC  
C/O BLOCK PROPERTIES LLC  
30 NEWBURY ST., SUITE 3  
BOSTON, MA 02116



