

BZA APPLICATION FORM

GENERAL INFORMATION

2017 APR -4 AM 11:47
RICARDO M. SOUSA, CITY CLERK
CAMBRIDGE, MASSACHUSETTS

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: 300 Mt. Auburn Street

TYPE OF OCCUPANCY: Telecommunications ZONING DISTRICT: C-3

REASON FOR PETITION:

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <input type="checkbox"/> Additions | <input type="checkbox"/> New Structure |
| <input type="checkbox"/> Change in Use/Occupancy | <input type="checkbox"/> Parking |
| <input type="checkbox"/> Conversion to Addi'l Dwelling Unit's | <input type="checkbox"/> Sign |
| <input type="checkbox"/> Dormer | <input type="checkbox"/> Subdivision |
| <input checked="" type="checkbox"/> 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:

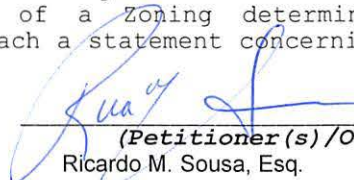
The Applicant proposes to modify its existing Wireless Telecommunications Facility by collocating six (6) new panel antennas on the existing building, together with supporting equipment. The Applicants proposal complies with Section 6409 of the Spectrum Act as the collocation of antennas is not a substantial 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: March 21, 2017

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 Mount Auburn Hospital _____
(OWNER)

Address: 300 Mount Auburn Street, Cambridge, MA _____

State that I/We own the property located at 300 Mount Auburn Street, Cambridge, MA, which is the subject of this zoning application.

The record title of this property is in the name of Mount Auburn Hospital _____

Book 1625, Pg. 140; Book 1642, Pg. 33; Book 1791, Pg. 574; Book 2507, Pg. 287; Book 2505, Pg. 2155; Book 2840, Pg. 24; Book 693, Pg. 3B

*Pursuant to a deed of duly recorded in the date multiple dates, Middlesex South

County Registry of Deeds at Book _____, Page _____; 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 NICK DIIESEO personally appeared before me, this 17 of October, 2016, and made oath that the above statement is true.

Gary Chagny Notary

My commission expires 7/15/22 (Notary Seal).

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

REAL ESTATE TRANSFER TAX - STATEMENT OF TAXPAYER

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

Name of Assessor: _____

Address: _____

State that I am the owner of the property located at _____ which is the subject of this return.

The record title of this property is in the name of _____

County Registry of Deeds at _____

Middlesex Registry of Deeds at _____

Book _____ Page _____

Signature of Assessor: _____

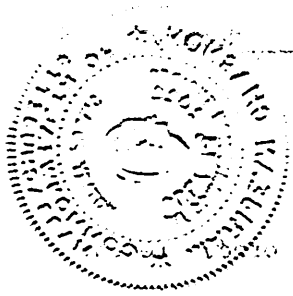
Further evidence of Assessor's standing as registered practitioner may be requested.

Commonwealth of Massachusetts, County of _____

The above information is true and correct to the best of my knowledge.

This is a true and correct copy of the above statement in _____

My commission expires _____



If ownership is not shown in record, please include documentation by county of _____

BZA APPLICATION FORM

DIMENSIONAL INFORMATION

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

LOCATION: 300 Mt. Auburn Street ZONE: C-3

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

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

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

The proposed installation involves a modification of an existing Wireless Telecommunications Facility,

more commonly referred to as a "collocation".

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'.

March 21, 2017

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

Re: Eligible Facilities Request pursuant to Section 6409 of the Spectrum Act and an Application for Special Permit, in the alternative
Property Address: 300 Mount Auburn Street, Cambridge, MA 02238
Assessor's Map 240, Lot 14-E (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 Residence C-3 (C-3) zoning district. To the extent that the Board determines that the requirements of Article 4 Section 4.32G.1 of the City of Cambridge Zoning Ordinance (the "Ordinance") apply, the use of the Property for a wireless telecommunications facility is permitted by special permit from the Board¹. The Applicant's proposal satisfies the requirements for the grant of a special permit pursuant to Section 10-43 of the Ordinance.

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

The Applicant seeks to modify its existing wireless communications facility by collocating six (6) new panel antennas, three (3) Remote Radio Head Units ("RRH") and supporting equipment and cabling (the "Proposed Facility"). Four (4) of the proposed antennas will be installed within new faux flue pipes designed to conceal the antennas. The faux flue pipes will be painted to match the existing HVAC unit behind them. The remaining two (2) antennas will be façade

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

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

mounted to the existing stair head house façade and painted to match. All of the proposed antennas and RRH units will be installed on the roof 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 six (6) new panel antennas, three (3) Remote Radio Head Units (“RRH”) and supporting equipment and cabling. Four (4) of the proposed antennas will be installed within new faux flue pipes designed to conceal the antennas. The faux flue pipes will be painted to match the existing HVAC unit behind them. The remaining two (2) antennas will be façade mounted to the existing stair head house façade and painted to match. All new antennas will be installed to be consistent with the previous decision of the Board for this facility, dated March 14, 2013 (Case No. 10400) (the “Decision”). 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 C-C-3 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 C-3 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-3 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.**

The Applicant proposes to install its facility within the C-3 zoning district. Although this site is located within a residential district, residential uses do not predominate in this area. Specifically, the primary use in this area is the Mount Auburn Hospital, which hosts the proposed and existing facility. The Property consists of a large hospital with multiple associated buildings on a 521,470 sq. ft. lot. The Property is further bounded by a major roadway, Memorial Drive and Fresh Pond Parkway, and the Charles River to its immediate south and Mt. Auburn Street to the north. As such,

we respectfully submit that the Applicants telecommunications facility is not inconsistent with the character that does prevail in the surrounding neighborhood and that nonresidential uses predominate in the vicinity.

The Board has determined, in the Decision and other decisions that a telecommunications facility is not inconsistent with the character that prevails in this neighborhood and that nonresidential uses predominate in the vicinity of this Building.

Furthermore, 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.

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

1. The requirements of the Ordinance can be met:

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

2. 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.

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

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

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

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

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

The Proposed Facility will comply with all federal, state and local safety requirements including the standards established by the FCC, Federal Aviation Administration (FAA), the American Standards Institute (ANSI), and the Massachusetts Department of Public Health (MDPH).

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

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

The Proposed Facility is designed to blend with the existing characteristics of the Property, reducing any visual impacts to the surrounding area. Accordingly, the Proposed Facility's design results in a minimal impact on the underlying and adjacent zoning district and is consistent with the Ordinance's intention to allow for less intrusive wireless telecommunications facilities in all districts (other than Open Space), including the C-3 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:

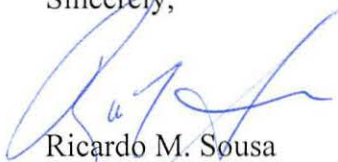
Not Applicable. The Applicant is not proposing to construct a new building or structure.

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.

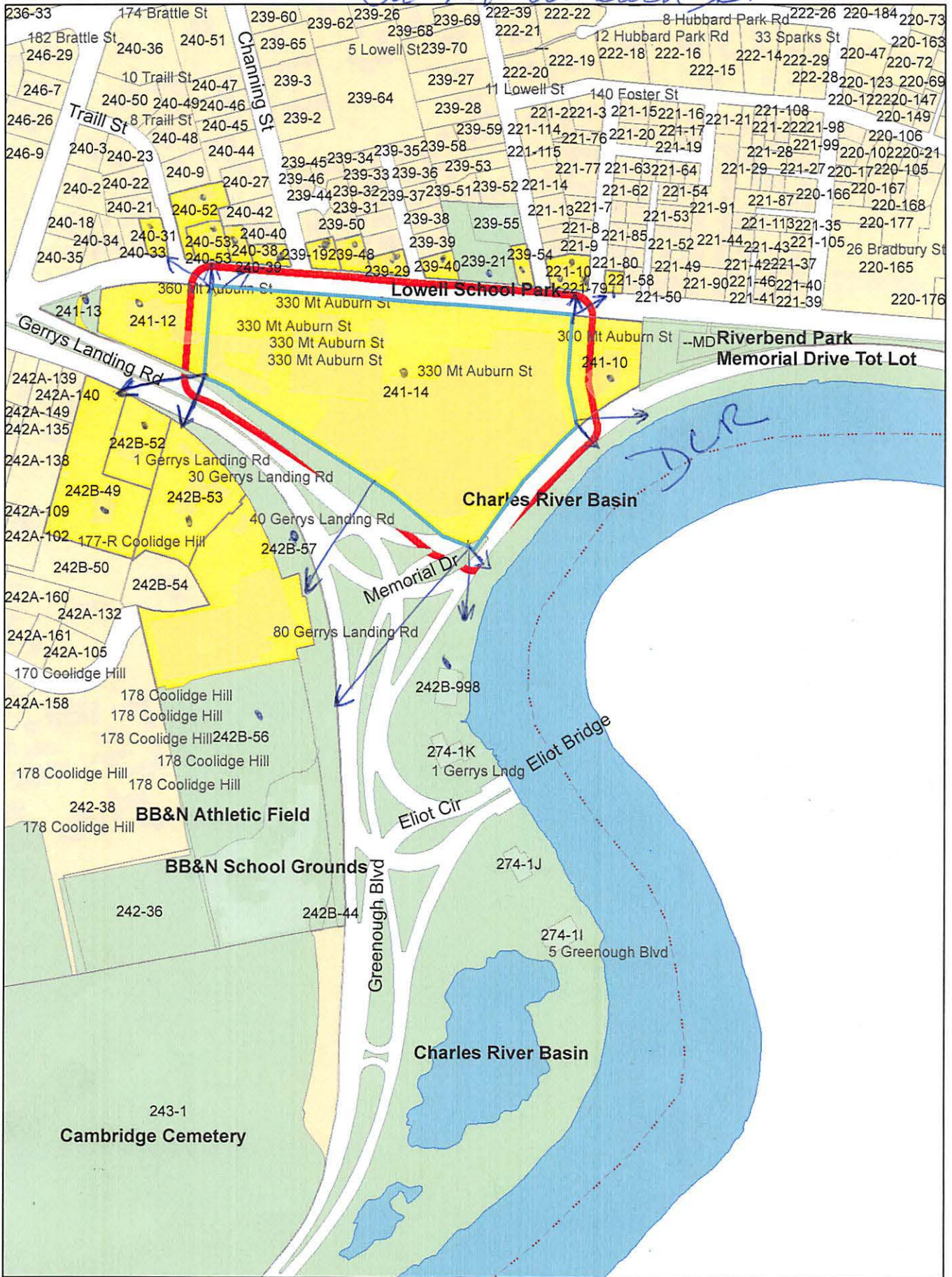
For the foregoing reasons the Applicant respectfully requests that the Board grant the foregoing relief pursuant to Section 6409(a) of the Spectrum Act or, in the alternative, zoning relief in the form of a Special Permit and such other relief as the Board deems necessary to allow the installation and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

Sincerely,



Ricardo M. Sousa
Direct: 617-456-8123
Email: rsousa@princelobel.com

300 Mt. Auburn St.



330 Mt - Auburn St.

Petitioner

239-40
STILES, KATHERINE M.
2 LONGFELLOW RD. UNIT#1
CAMBRIDGE, MA 02138

239-40
CAPELLO, DANIEL A. & KIMBERLY A. CAPELLO
C/O SONG, TAEMINN
4 LONGFELLOW RD.,
CAMBRIDGE, MA 02138

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

242B-52
REIMANN, WILLIAM P. & HELEN S. REIMANN
1 GERRYS LANDING
CAMBRIDGE, MA 02138

242B-53-56
BUCKINGHAM BROWNE & NICHOLS SCHOOL
80 GERRYS LNDG
CAMBRIDGE, MA 02138

240-39
STOHLMAN, THOMAS J. JR. &
KATHARINE M. STOHLMAN
19 CHANNING ST
CAMBRIDGE, MA 02138

240-53
SANBORN, JOSEPH S.,
TRUSTEE THE REX REALTY TRUST
20 TRAILL ST
CAMBRIDGE, MA 02138

240-52
SALTER, MALCOLM & BARBARA SALTER
18 TRAILL ST 1
CAMBRIDGE, MA 02138

240-52
TRAILL BLAZERS, LLC
24 BOGLE ST.
WESTON, MA 02493

242B-57 /241-13
COMMONWEALTH OF MASSACHUSETTS
STATE HOUSE
BOSTON, MA 02133

241-14
MT. AUBURN HOSPITAL
C/O NICHOLAS DILESCO, CHIEF OPER OFFICER
300 MT AUBURN ST
CAMBRIDGE, MA 02138

239-21
CITY OF CAMBRIDGE
C/O LOUIS DePASQUALE
CITY MANAGER

239-21
CITY OF CAMBRIDGE
C/O NANCY GLOWA
CITY SOLICITOR

241-10
1010 MEMORIAL DRIVE TENANTS
CORPORATION
1010 MEMORIAL DRIVE
CAMBRIDGE, MA 02138

241-12
CAMBRIDGE HOME FOR THE AGED PEOPLE
C/O PRESIDENT
360 MT. AUBURN ST
CAMBRIDGE, MA 02138

242B-49
FORBES, J. MALCOLM & ARIADNE H. FORBES
3 GERRYS LANDING RD
CAMBRIDGE, MA 02138

240-38
KALAVREZOU, IOLI
341 MT. AUBURN ST.
CAMBRIDGE, MA 02138

240-31
HOFFMAN, ELIZABETH L.
361 MT. AUBURN ST., #2
CAMBRIDGE, MA 02138

221-10
CATALANO, ADRIAN & ALEJANDRINA CATALANO
TRUSTEES OF THE CATALANO REALTY TRUST
267 GROVE ST.
CAMBRIDGE, MA 02138

221-79
MESERVEY, DIANA & SARAH MESERVEY
57 FRANCIS AVE
CAMBRIDGE, MA 02138

239-19
SAFIZADEH, FEREDOUN & ARLENE DALLALFAR
18 CHANNING STREET
CAMBRIDGE, MA 02138

240-31
MOSELEY, EVA S.
361 MT AUBURN ST #1
CAMBRIDGE, MA 02138

239-29
WANG, HAO & XIAOYU WANG
11 EMPIRE CIRCLE
SINGERLANDS, NY 12159

239-29
HAO WANG & XIAOYU, OLIVIA WANG
1-3 LONGFELLOW RD., UNIT#2
CAMBRIDGE, MA 02138

239-48
SALEHI-ISFAHANI, DJAVAD &
ANDREA L. KAVANAUGH
321 MT AUBURN ST. UNIT#1
CAMBRIDGE, MA 02138

239-48
NOLLMAN, JORDAN & LARISSA BOUTIQUE
321 MT AUBURN ST. UNIT#2
CAMBRIDGE, MA 02138

239-54
BARRY, PAULA
26 ARLENE AVE
WILMINGTON, MA 01887

242B-998
CAMBRIDGE BOAT CLUB
% GAIL CROMWELL
2 GERRY'S LANDING
CAMBRIDGE, MA 02138

DEPARTMENT OF CONSERVATION &
RECREATION
251 CAUSEWAY STREET - SUITE 600
BOSTON, MA 02114-2119



CAMBRIDGE HISTORICAL COMMISSION

831 Massachusetts Avenue, 2nd Floor, Cambridge, Massachusetts 02139

Telephone: 617 349 4683 TTY: 617 349 6112

E-mail: histcomm@cambridgema.gov URL: http://www.cambridgema.gov/Historic

William B. King, *Chair*, Bruce A. Irving, *Vice Chair*, Charles M. Sullivan, *Executive Director*

William G. Barry, Jr., Robert G. Crocker, Chandra Harrington, Jo M. Solet, *Members*

Joseph V. Ferrara, Kyle Sheffield, Susannah Barton Tobin, *Alternates*

Jurisdiction Advice

To the Owner of Property at 300 Mt. Auburn Street

The above-referenced property is subject to the jurisdiction of the Cambridge Historical Commission (CHC) by reason of the status referenced below:

- Old Cambridge Historic District
 - Fort Washington Historic District
(M.G.L. Ch. 40C, City Code §2.78.050)
 - Avon Hill Neighborhood Conservation District
 - Half Crown – Marsh Neighborhood Conservation District
 - Harvard Square Conservation District
 - Mid Cambridge Neighborhood Conservation District
 - Designated Landmark *No changes are proposed to the protected landmark building (Parsons and surgical wing).*
 - Property is being studied for designation: _____
(City Code, Ch. 2.78., Article III, and various City Council Orders)
 - Preservation Restriction or Easement (as recorded)
 - Structure is fifty years or more old and therefore subject to CHC review of any application for a demolition permit, if one is required by ISD. (City Code, Ch. 2.78, Article II). **See the back of this page for definition of demolition.**
 - No jurisdiction: not a designated historic property and the structure is less than fifty years old.
 - No local jurisdiction, but the property is listed on the National Register of Historic Places; CHC staff is available for consultation, upon request.
- Staff comments: _____

The Board of Zoning Appeal advises applicants to complete Historical Commission or Neighborhood Conservation District Commission reviews before appearing before the Board.

If a line indicating possible jurisdiction is checked, the owner needs to consult with the staff of the Historical Commission to determine whether a hearing will be required.

CHC staff initials SLB

Date April 3, 2017

Received by Uploaded to Energov

Date April 3, 2017

Relationship to project BZA 12889-2017

cc: Applicant
Inspectional Services Commissioner

Demolition Delay Ordinance and Application Information

The Demolition Delay Ordinance (Chapter 2.78, Article II of the Cambridge Municipal Code) was adopted by the City Council in 1979 to afford public review of demolition permit applications for potentially significant buildings. When the Historical Commission determines that a building is significant and should be preserved, demolition will be delayed for up to six months so that solutions can be sought to preserve the building indefinitely. The Ordinance covers all buildings over 50 years old, city-wide. The Historical Commission archives provide dates of construction for all properties in the City.

Demolition is defined in the ordinance as "the act of pulling down, destroying, removing or razing a building or commencing the work of total or substantial destruction with the intent of completing the same." The Inspectional Services Commissioner has provided further guidelines to outline what actions require a demolition permit. **In addition to complete demolition of a building, the following actions may require a demolition permit,**

- **removal of a roof,**
- **removal of one side of a building,**
- **gutting of a building's interior to the point where exterior features (windows, etc.) are impacted, and**
- **removal of more than 25% of a structure.**

Please contact the building inspector or a staff member of the Historical Commission if you have questions about whether a demolition permit is required for a particular project.

Demolition permit applications can be obtained from the Inspectional Services Department. The completed application should be submitted to the Historical Commission, where the staff will review the application. If the Executive Director of the Historical Commission makes an initial determination that the building is significant, a public hearing will be scheduled with Historical Commission. If the staff makes an initial determination that the building is not significant, the application is released for further review by the Building Commissioner.

More information about the demolition permit application procedures is available on the Historical Commission's web site or by calling or dropping by the Historical Commission office.

July 2003

Cambridge Historical Commission
831 Massachusetts Ave., 2nd Fl.
Cambridge, MA 02139
Ph: 617/349-4683 or TTY: 617/349-6112
<http://www.cambridgema.gov/Historic>

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

T-Mobile Northeast LLC

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

Applicant

**Property Location:
300 Mount Auburn Street
Cambridge, MA 02238
Map 240, Lot 14-E**

**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**

March 21, 2017

TABLE OF CONTENTS

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

Property located at:

**300 Mount Auburn Street
Cambridge, MA 02238**

Map 240, Lot 14-E

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: 300 Mt. Auburn Street DATE: 3/21/2016

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

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

BLOCK: 240 LOT: 14-E

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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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>
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<u>FOR SUBDIVISION ALSO INCLUDE:</u> 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.
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** Can be submitted after subdivision has been approved.

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

I/We Mount Auburn Hospital
(OWNER)

Address: 300 Mount Auburn Street, Cambridge, MA

State that I/We own the property located at 300 Mount Auburn Street, Cambridge, MA, which is the subject of this zoning application.

The record title of this property is in the name of Mount Auburn Hospital

Book 1625, Pg. 140; Book 1642, Pg. 33; Book 1791, Pg. 574; Book 2507, Pg. 287; Book 2505, Pg. 2105; Book 2846, Pg. 24; Book 693, Pg. 37B

*Pursuant to a deed of duly recorded in the date multiple dates, Middlesex South County Registry of Deeds at Book _____, Page _____; 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 Nick DiZeso personally appeared before me, this 17 of October, 2016, and made oath that the above statement is true.

Garyn Chagny Notary

My commission expires 7/15/22 (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: 300 Mt. Auburn Street ZONE: C-3

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

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

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

The proposed installation involves a modification of an existing Wireless Telecommunications Facility,

more commonly referred to as a "collocation".

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.
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BZA APPLICATION FORM

SUPPORTING STATEMENT FOR A VARIANCE

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

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

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

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

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Please see the attached supporting statement.

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

Please see the attached supporting statement.

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BZA APPLICATION FORM

CHECK LIST

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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

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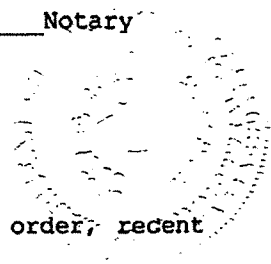
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Dimensional Form - Refer to Cambridge Zoning Ordinance - Scanned & 1 set to Zoning (Subject to further review by Zoning Specialist)	<u>X</u>	<u>X</u>
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Evidence of Separate Utilities **	<u>N/A</u>	<u>N/A</u>
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* 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: 300 Mt. Auburn Street

TYPE OF OCCUPANCY: Telecommunications ZONING DISTRICT: C-3

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 six (6) new panel antennas on the existing building, together with supporting equipment. 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:

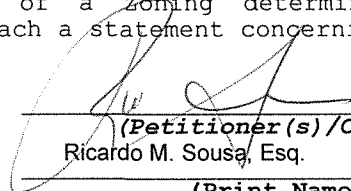
Article 4.00 Section 4.32 (g)(1) Utilities - Telephone Exchange

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: March 21, 2017

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 Mount Auburn Hospital
(OWNER)

Address: 300 Mount Auburn Street, Cambridge, MA

State that I/We own the property located at 300 Mount Auburn Street, Cambridge, MA, which is the subject of this zoning application.

The record title of this property is in the name of Mount Auburn Hospital

*Pursuant to a deed of duly recorded in the date _____, Middlesex South County Registry of Deeds at Book _____, Page _____; or Middlesex Registry District of Land Court, Certificate No. _____ Book _____ Page _____.


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

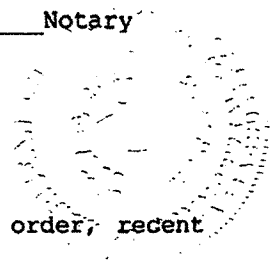
*Written evidence of Agent's standing to represent petitioner may be requested.

Commonwealth of Massachusetts, County of Middlesex

The above-name NICK DIIESEO personally appeared before me, this 17 of October, 2016, and made oath that the above statement is true.

 Notary

My commission expires 7/15/22 (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: 300 Mt. Auburn Street ZONE: C-3

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

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

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

The proposed installation involves a modification of an existing Wireless Telecommunications Facility,

 more commonly referred to as a "collocation".

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'.

BZA APPLICATION FORM

SUPPORTING STATEMENT FOR A VARIANCE

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

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

N/A

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

N/A

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

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

N/A

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

N/A

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

BZA APPLICATION FORM

SUPPORTING STATEMENT FOR A SPECIAL PERMIT

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

Granting the Special Permit requested for 300 Mt. Auburn Street (Location) would not be a detriment to the public interest because:

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

Please see the attached supporting statement.

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

Please see the attached supporting statement.

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

Please see the attached supporting statement.

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

Please see the attached supporting statement.

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

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March 21, 2017

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

Re: Eligible Facilities Request pursuant to Section 6409 of the Spectrum Act and an Application for Special Permit, in the alternative
Property Address: 300 Mount Auburn Street, Cambridge, MA 02238
Assessor's Map 240, Lot 14-E (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 Residence C-3 (C-3) zoning district. To the extent that the Board determines that the requirements of Article 4 Section 4.32G.1 of the City of Cambridge Zoning Ordinance (the "Ordinance") apply, the use of the Property for a wireless telecommunications facility is permitted by special permit from the Board¹. The Applicant's proposal satisfies the requirements for the grant of a special permit pursuant to Section 10-43 of the Ordinance.

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

The Applicant seeks to modify its existing wireless communications facility by collocating six (6) new panel antennas, three (3) Remote Radio Head Units ("RRH") and supporting equipment and cabling (the "Proposed Facility"). Four (4) of the proposed antennas will be installed within new faux flue pipes designed to conceal the antennas. The faux flue pipes will be painted to match the existing HVAC unit behind them. The remaining two (2) antennas will be façade

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

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

mounted to the existing stair head house façade and painted to match. All of the proposed antennas and RRH units will be installed on the roof 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 six (6) new panel antennas, three (3) Remote Radio Head Units (“RRH”) and supporting equipment and cabling. Four (4) of the proposed antennas will be installed within new faux flue pipes designed to conceal the antennas. The faux flue pipes will be painted to match the existing HVAC unit behind them. The remaining two (2) antennas will be façade mounted to the existing stair head house façade and painted to match. All new antennas will be installed to be consistent with the previous decision of the Board for this facility, dated March 14, 2013 (Case No. 10400) (the “Decision”). 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 C-C-3 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 C-3 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-3 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.**

The Applicant proposes to install its facility within the C-3 zoning district. Although this site is located within a residential district, residential uses do not predominate in this area. Specifically, the primary use in this area is the Mount Auburn Hospital, which hosts the proposed and existing facility. The Property consists of a large hospital with multiple associated buildings on a 521,470 sq. ft. lot. The Property is further bounded by a major roadway, Memorial Drive and Fresh Pond Parkway, and the Charles River to its immediate south and Mt. Auburn Street to the north. As such,

we respectfully submit that the Applicants telecommunications facility is not inconsistent with the character that does prevail in the surrounding neighborhood and that nonresidential uses predominate in the vicinity.

The Board has determined, in the Decision and other decisions that a telecommunications facility is not inconsistent with the character that prevails in this neighborhood and that nonresidential uses predominate in the vicinity of this Building.

Furthermore, 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.

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

1. The requirements of the Ordinance can be met:

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

2. 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.

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

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

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

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

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

The Proposed Facility will comply with all federal, state and local safety requirements including the standards established by the FCC, Federal Aviation Administration (FAA), the American Standards Institute (ANSI), and the Massachusetts Department of Public Health (MDPH).

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

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

The Proposed Facility is designed to blend with the existing characteristics of the Property, reducing any visual impacts to the surrounding area. Accordingly, the Proposed Facility's design results in a minimal impact on the underlying and adjacent zoning district and is consistent with the Ordinance's intention to allow for less intrusive wireless telecommunications facilities in all districts (other than Open Space), including the C-3 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:

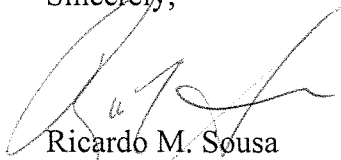
Not Applicable. The Applicant is not proposing to construct a new building or structure.

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

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MOUNT AUBURN HOSPITAL

300 MOUNT AUBURN STREET
CAMBRIDGE, MA 02238

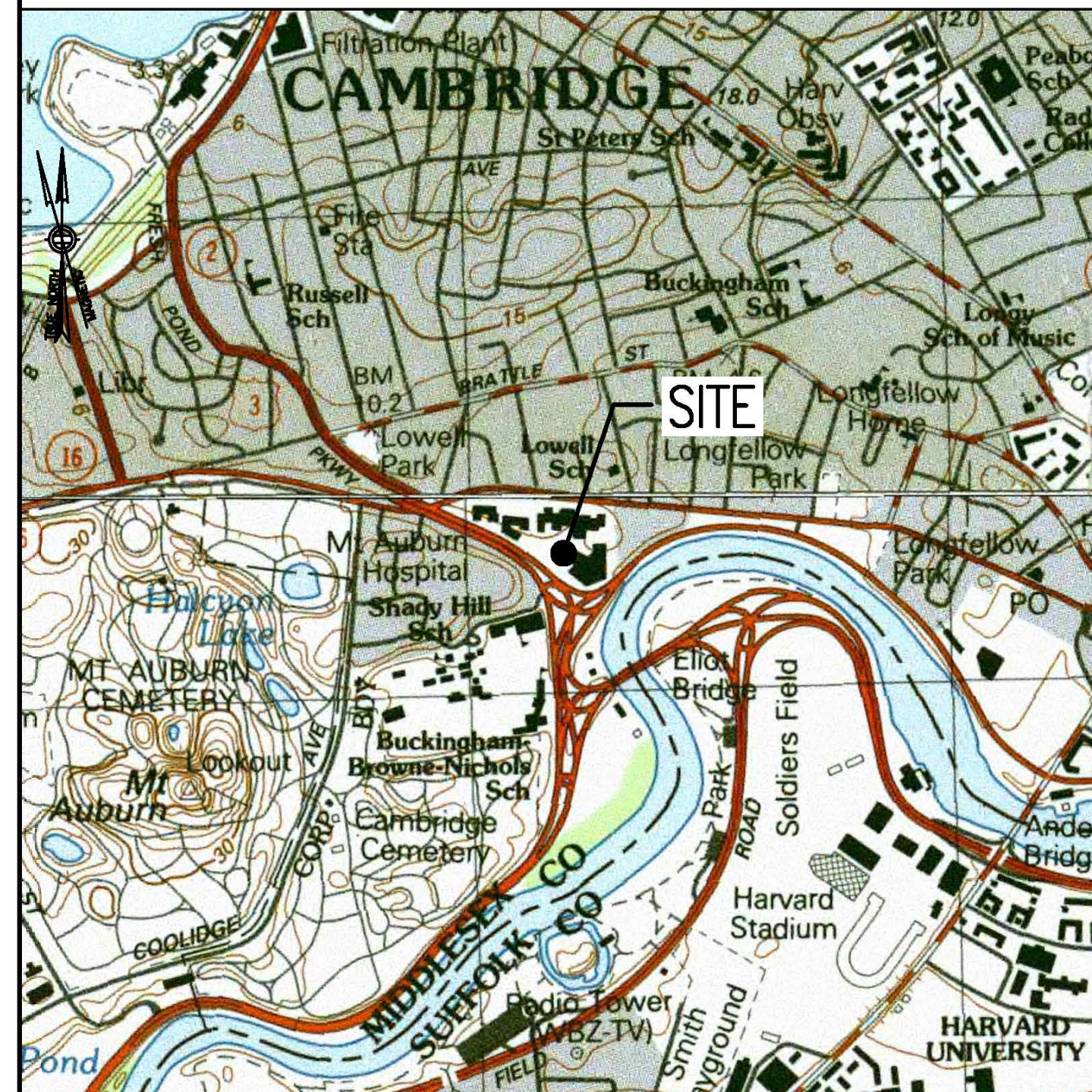
SITE NO.: 4BN0355A

SITE TYPE: UPGRADE L700 - 702Cu

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 (CB): 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

SHT. NO.	DESCRIPTION	VER.
T-1	TITLE SHEET	2
GN-1	GENERAL NOTES	2
C-1	PROPERTY PLAN	2
A-1	ROOF PLAN	2
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PROJECT SUMMARY

SITE NUMBER:	4BN0355A
SITE NAME:	MOUNT AUBURN HOSPITAL
SITE ADDRESS:	300 MOUNT AUBURN STREET CAMBRIDGE, MA 02238
ASSESSOR'S PARCEL NO.:	MAP 240 LOT 14-E
ZONING DISTRICT:	C-3 (RESIDENCE)
CONSTRUCTION TYPE:	UPGRADE L700
LAND OWNER:	MOUNT AUBURN HOSPITAL 300 MOUNT AUBURN STREET CAMBRIDGE, MA 02138
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

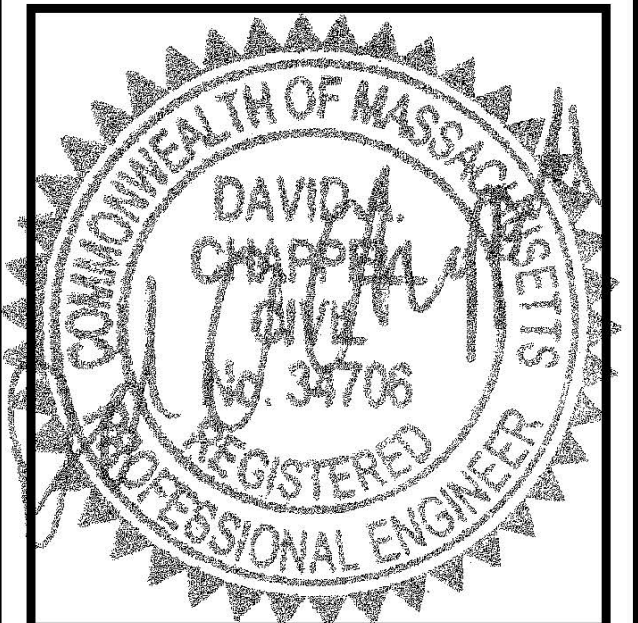
Mobile

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CHAPPELL
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ASSOCIATES, LLC

Civil - Structural - Land Surveying

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APPROVALS

STRUCTURE OWNER _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
A/E _____

PROJECT NO: 4BN0355A

DRAWN BY: CMC

CHECKED BY: JMT

VERSION

NO.	DATE	DESCRIPTION
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4BN0355A
MOUNT AUBURN
HOSPITAL

300 MOUNT AUBURN STREET
CAMBRIDGE, MA 02238

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 LARGER2 IN.
#5 AND SMALLER & WWF1½ IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL¾ IN.
BEAMS AND COLUMNS1½ 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:

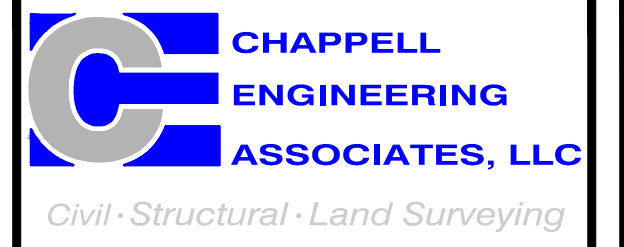
- FIELD VERIFICATION:
SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, T–MOBILE ANTENNA PLATFORM LOCATION AND UTILITY TRENCHWORK.
- COORDINATION OF WORK:
SUBCONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.
- CABLE LADDER RACK:
SUBCONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK,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

ELECTRICAL INSTALLATION NOTES:

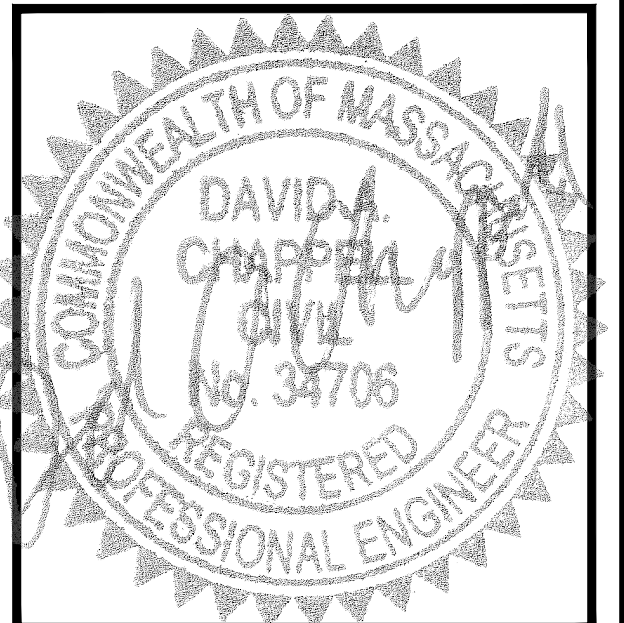
- WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
- SUBCONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLEING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR 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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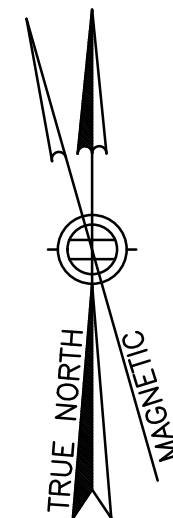
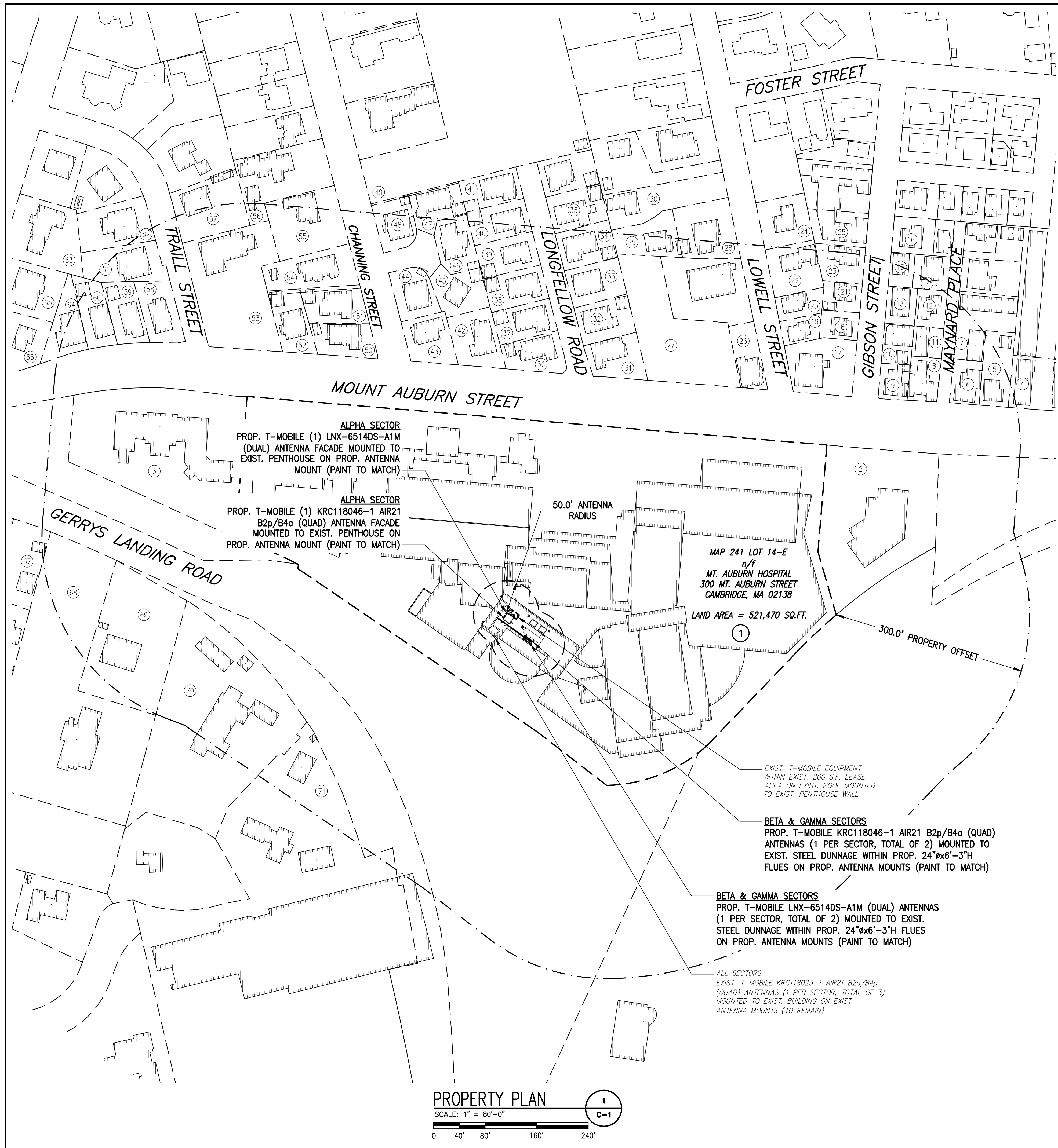
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HOSPITAL
300 MOUNT AUBURN STREET
CAMBRIDGE, MA 02238

SHEET TITLE
GENERAL NOTES

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ABUTTERS LIST

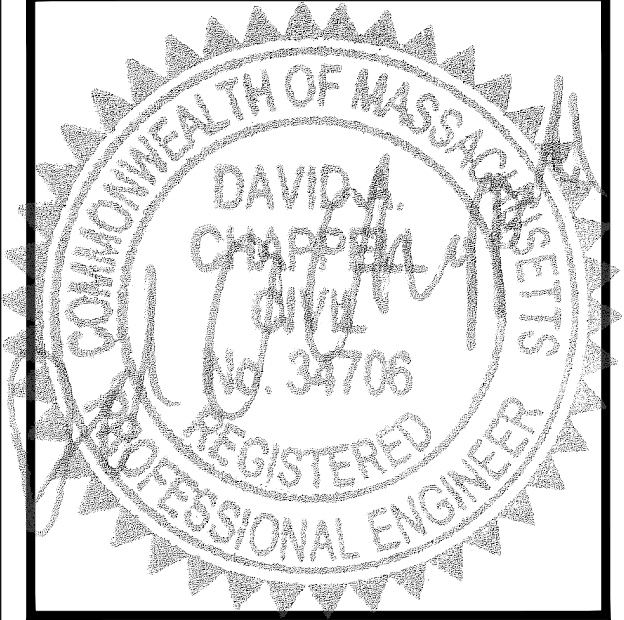
#	MAP	LOT	OWNER (n/i)
1	241	14	MOUNT AUBURN HOSPITAL
2	241	10	1010 MEMORIAL DRIVE TENANTS CORPORATION
3	241	12	CAMBRIDGE HOME FOR THE AGED PEOPLE
4	221	90	PRESIDENT & FELLOWS OF HARVARD COLLEGE
5	221	49	PIEPER, CHARLES & CAROLE J. PIEPER
6	221	50	TROLLEY CAMBRIDGE LIMITED PARTNERSHIP
7	221	52	1010 MEMORIAL DRIVE TENANTS
8	221	58	CARLEX LIMITED PARTNERSHIP, C/O GLENN HEROSIAN
9	221	79	MESERVEY, ROBERT H. & EVELYN M. MESERVEY
10	221	80	KINNEEN, WALTER R. & KATHLEEN P. KINNEEN
11	221	57	MORAN, DEBORAH
12	221	85	SZPORLUCK, ROMAN
13	221	94	NANCY L. W. HEMENWAY & ELLEN J. LANGER
14	221	96	BRENDA S. STAR
15	221	95	EDWARD FRANZ SEKLER
16	221	62	SCOTT HAAS & LAURA GOLDMAN
17	221	10	ADRIAN & ALEJANDRINA CATALANO
18	221	9	MARY K. & MARK M. CANNER
19	221	11	PHILIP A. & ALLISON WALTON
20	221	12	FRANCIS H. DUEHAY & JANE K. LEWIS
21	221	8	GERALD MICHAEL & PAMELA KOGUT
22	221	13	JOHN D. CONSTABLE & ESTHER YOUNG
23	221	7	SPIROS JAMAS & DEBIE BANG JAMAS
24	221	14	DENNIS B. WOLKOFF & SUSAN COOLIDGE
25	221	77	COUNIHAN FAMILY TRUST
26	239	54	FRANCESCO P. FIORE
27	239	21	CITY OF CAMBRIDGE
28	239	52	ANNE W. ELLSWORTH
29	239	51	PHILLIPPE A. MICHELON
30	239	53	MOUNGI G. BAWENDI & AMY L. ROSS
31	239	40	DAVID B. O'CONNOR
32	239	39	GORDON D. KAUFMAN
33	239	38	WELDON D. PRIES & REBECCA E. PRIES
34	239	37	CARLOS A. & JUDITH B. NEU
35	239	36	ELIZABETH AHN TOUPIN
36	239	29	IHOR SEVCENKO
37	239	30	MARY T. HESTER
38	239	31	JANET S. DILLON & THOMAS F. SCHAUB
39	239	32	JOHN L. & JOCELYN F. GIUNTA, TRS.
40	239	33	PHILIP ALTEKRUSE
41	239	34	CHARLES W. & ELAINE DUNN
42	239	48	KERRY REINERTSEN
43	239	19	FEREYDOUN SAFIZADEH
44	239	49	RODERICK STEWART, C/O ALBERTO FELIPE
45	239	50	MUIREANN GLENMULLEN
46	239	44	GARDINER G. BROWN
47	239	45	ANTHONY D. MARTIN TR. OF CHANNING
48	239	46	LORING LOW STEVENS
49	239	64	FIRST NATIONAL BANK OF BOSTON, TR.
50	240	39	THOMAS J. STOHLMAN JR.
51	239	40	JOHN C. MARSHALL
52	240	38	IOLU KALAVREZOU
53	240	43	RUTH GESSNER SHOCKEN
54	240	42	LUCINDA JEWELL
55	240	27	JOHN J. ALAM & SYLVIE L. GREGOIRE
56	240	44	DIANE SZABO-IMREY
57	240	9	FREDERIC E. WITMANN & CHRISTINE KONDOLEON
58	240	31	EVA S. MOSELEY
59	240	32	NATALIE E. WARD
60	240	33	ARTHUR H. BROOKS JR.
61	240	21	WILLIS H. SAWYER & ROSALIE HORNBLOWER
62	240	22	LAWRENCE D. BOBO & MARCYLIENA H. MORGAN
63	240	2	MARIKO M. KAMIO
64	240	34	BRIDGET ANN MURNANE
65	240	18	MAHZARIN BANAJI & RAMAMOORTHY BHASKA
66	240	35	MARY ELLEN BIGELOW TR.
67	242A	140	ELENA KOUNDOURAKIS
68	242B	49	MALCOLM J. & ARIADNE H. FORBES
69	242B	52	WILLIAM P. REIMANN
70	242B	53	CAROL A. PECHET
71	242B	56	BUCKINGHAM BROWNE & NICHOLS SCHOOL

T-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: 4BN0355A

DRAWN BY: CMC

CHECKED BY: JMT

VERSION

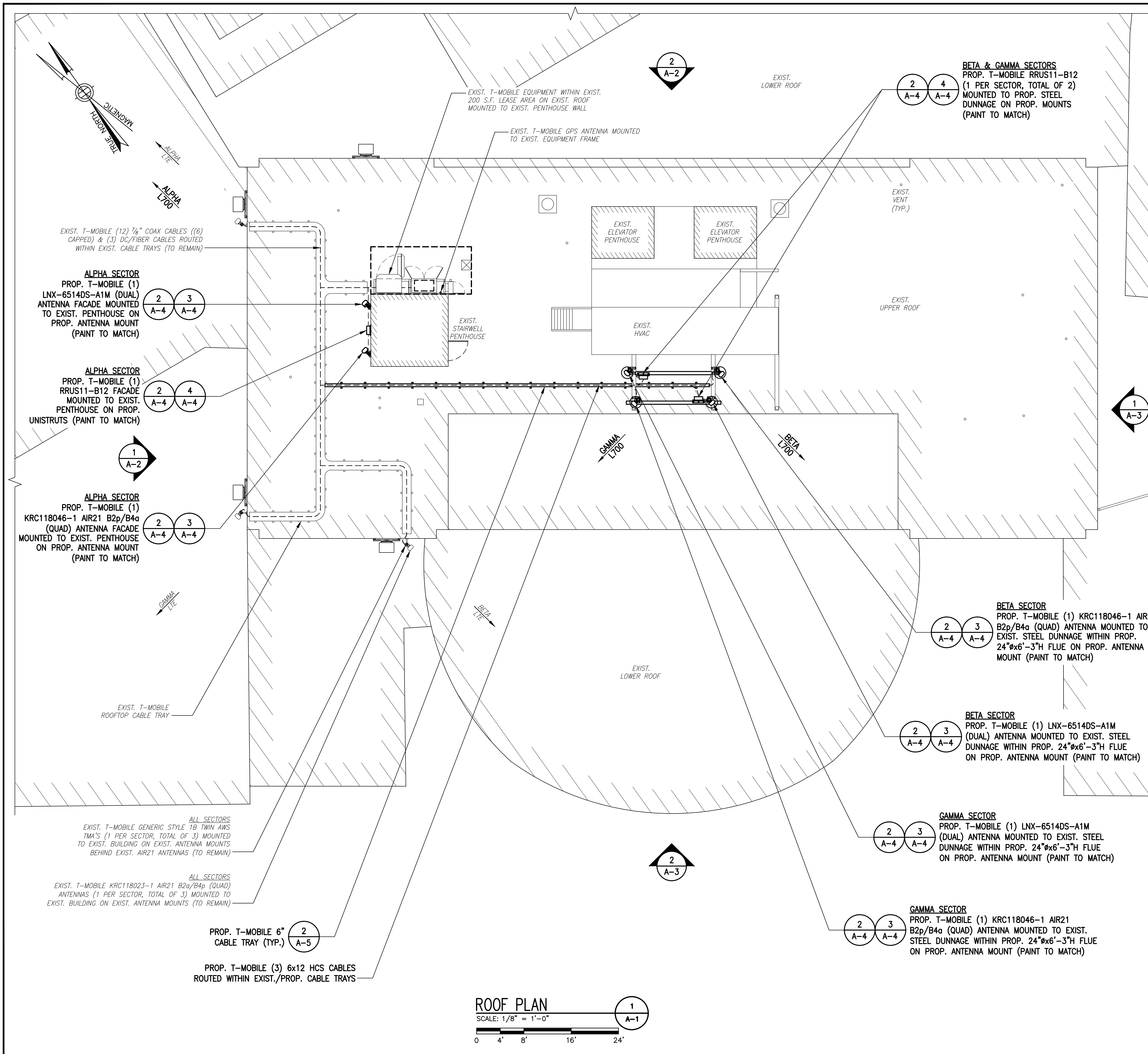
NO.	DATE	DESCRIPTION
2	02/23/17	CONSTRUCTION FINAL
1	01/09/17	CONSTRUCTION
0	10/04/16	CONSTRUCTION REVIEW

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4BN0355A
MOUNT AUBURN HOSPITAL
300 MOUNT AUBURN STREET
CAMBRIDGE, MA 02238

SHEET TITLE
PROPERTY PLAN

SHEET NUMBER
C-1



EQUIPMENT SCHEDULE

CURRENT EQUIPMENT

- THREE (3) ERICSSON KRC118023-1 AIR21 B2a/B4p (QUAD) ANTENNAS
- THREE (3) GENERIC STYLE 1B TWIN AWS TMA'S
- TWELVE (12) 7/8" COAX CABLES ((6) CAPPED)
- THREE (3) DC/FIBER CABLES
- ONE (1) GPS ANTENNA AND ASSOCIATED 1/2" COAX CABLE
- ONE (1) ERICSSON RBS 3106 EQUIPMENT CABINET
- ONE (1) ERICSSON RBS 6102 EQUIPMENT CABINET
- ONE (1) NORTHERN TECHNOLOGIES PPC CABINET
- ONE (1) 50KVA NEMA 3R TRANSFORMER

EQUIPMENT TO BE REMOVED

- NONE

EQUIPMENT TO BE ADDED

- THREE (3) ERICSSON KRC118046-1 AIR21 B2p/B4a (QUAD) ANTENNAS
- THREE (3) COMMSCOPE LN-6514DS-A1M (DUAL) ANTENNAS
- THREE (3) RRUS11-B12
- THREE (3) 6x12 HCS CABLES

FINAL EQUIPMENT CONFIGURATION

- THREE (3) ERICSSON KRC118023-1 AIR21 B2a/B4p (QUAD) ANTENNAS
- THREE (3) ERICSSON KRC118046-1 AIR21 B2p/B4a (QUAD) ANTENNAS
- THREE (3) COMMSCOPE LN-6514DS-A1M (DUAL) ANTENNAS
- THREE (3) GENERIC STYLE 1B TWIN AWS TMA'S
- THREE (3) RRUS11-B12
- TWELVE (12) 7/8" COAX CABLES ((6) CAPPED)
- THREE (3) DC/FIBER CABLES
- THREE (3) 6x12 HCS CABLES
- ONE (1) GPS ANTENNA AND ASSOCIATED 1/2" COAX CABLE
- ONE (1) ERICSSON RBS 3106 EQUIPMENT CABINET
- ONE (1) ERICSSON RBS 6102 EQUIPMENT CABINET
- ONE (1) NORTHERN TECHNOLOGIES PPC CABINET
- ONE (1) 50KVA NEMA 3R TRANSFORMER

EXISTING EQUIPMENT SPACE REQUIREMENTS WILL NOT CHANGE

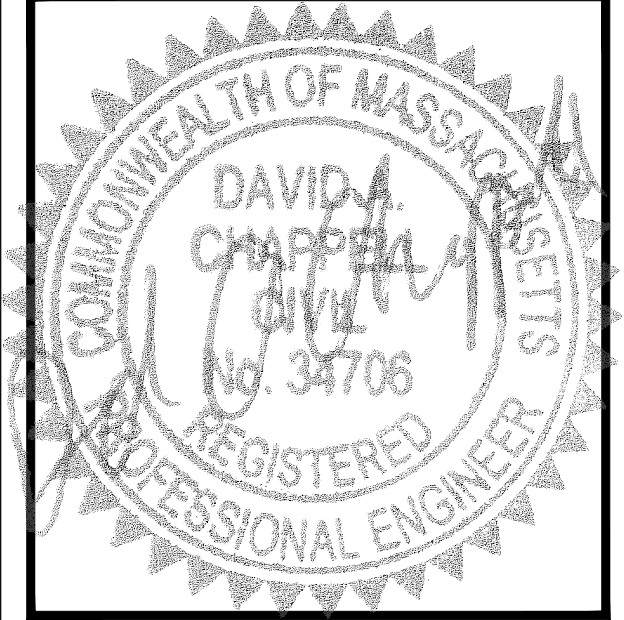
RF CONFIGURATION
702Cu

T-Mobile

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

CHAPPELL ENGINEERING ASSOCIATES, LLC
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APPROVALS

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LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A/E _____

PROJECT NO: 4BN0355A

DRAWN BY: CMC

CHECKED BY: JMT

VERSION

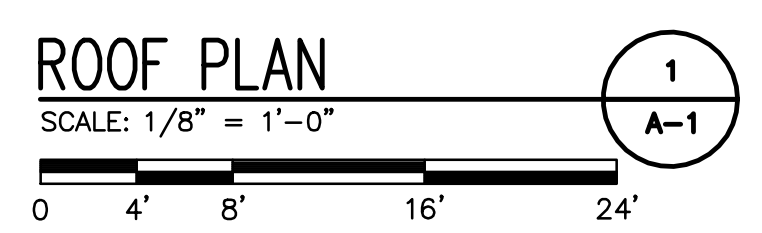
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0	10/04/16	CONSTRUCTION REVIEW

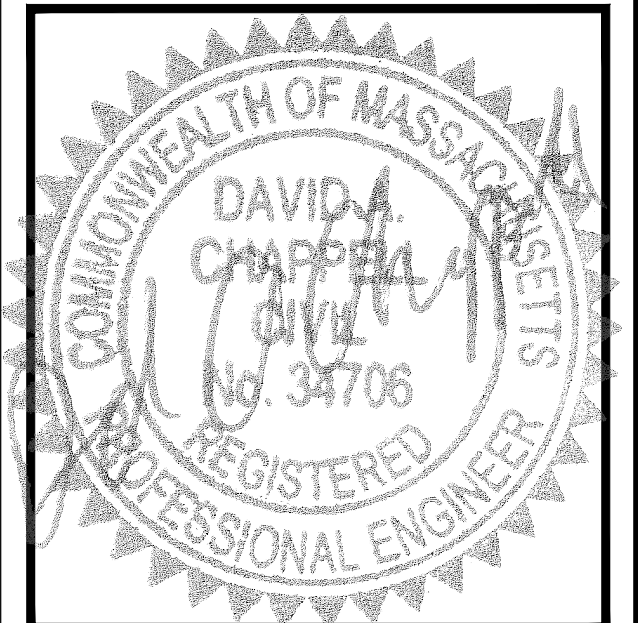
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4BN0355A
 MOUNT AUBURN HOSPITAL
 300 MOUNT AUBURN STREET
 CAMBRIDGE, MA 02238

SHEET TITLE
 ROOF PLAN

SHEET NUMBER
 A-1





APPROVALS

STRUCTURE OWNER _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
A/E _____

PROJECT NO: 4BN0355A

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VERSION

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4BN0355A
MOUNT AUBURN
HOSPITAL

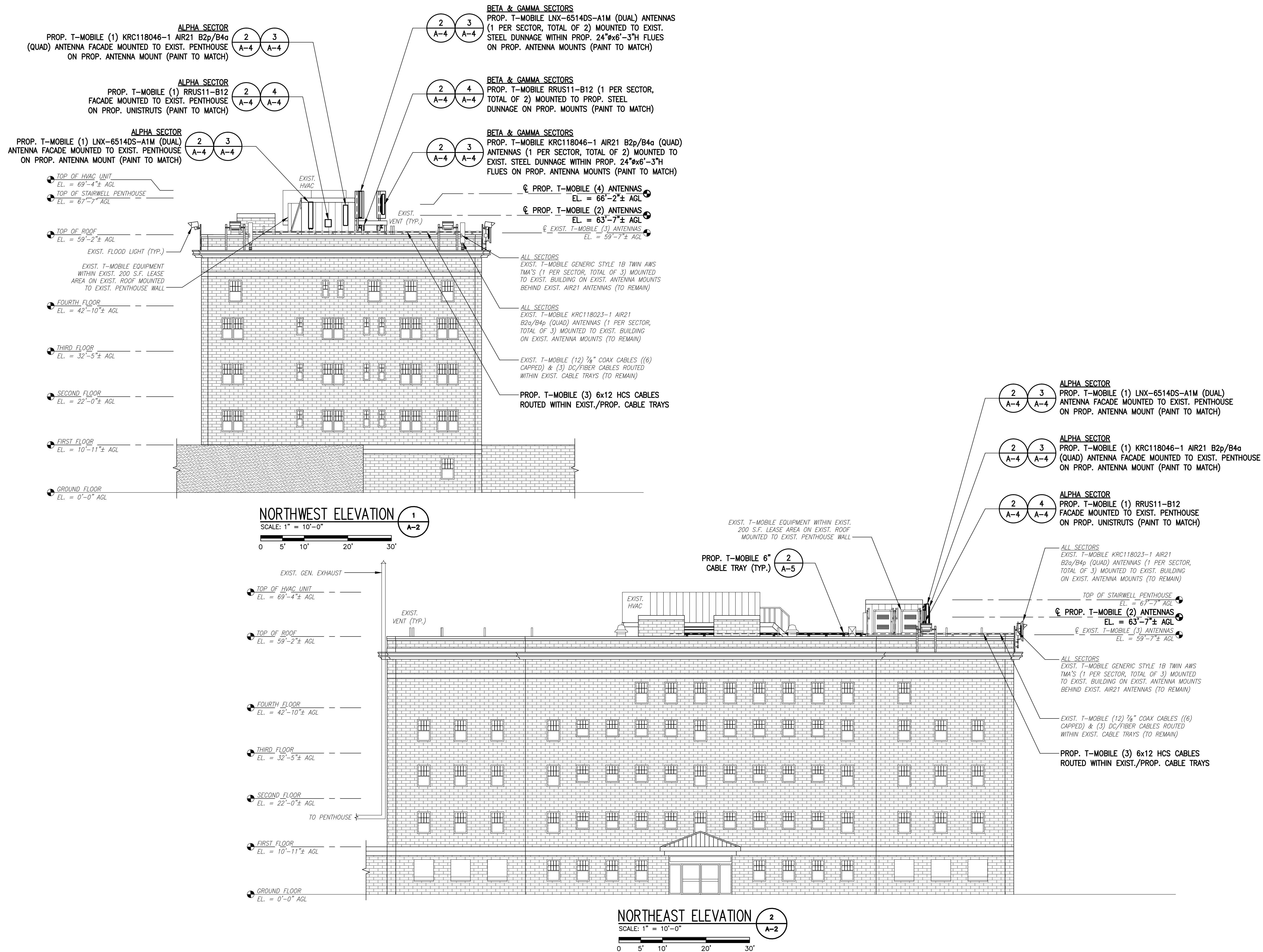
300 MOUNT AUBURN STREET
CAMBRIDGE, MA 02238

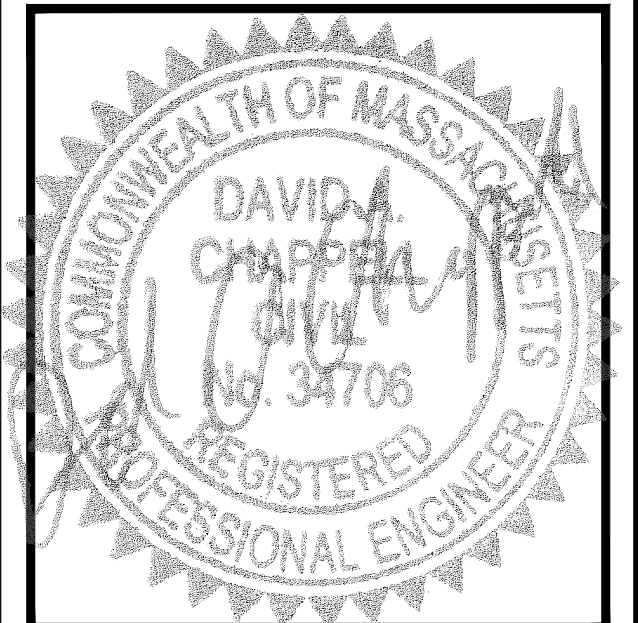
SHEET TITLE

NORTH ELEVATIONS

SHEET NUMBER

A-2





APPROVALS

STRUCTURE OWNER _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A/E _____

PROJECT NO: 4BN0355A

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VERSION

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0	10/04/16	CONSTRUCTION REVIEW

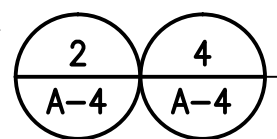
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MOUNT AUBURN
HOSPITAL
300 MOUNT AUBURN STREET
CAMBRIDGE, MA 02238

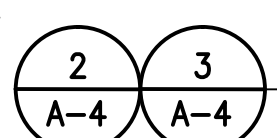
SHEET TITLE
SOUTH ELEVATIONS

SHEET NUMBER
A-3

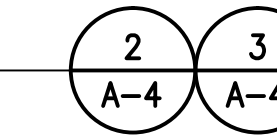
BETA & GAMMA SECTORS
PROP. T-MOBILE RRUS11-B12 (1 PER SECTOR, TOTAL OF 2) MOUNTED TO PROP. STEEL DUNNAGE ON PROP. ANTENNA MOUNTS (PAINT TO MATCH)



BETA & GAMMA SECTORS
PROP. T-MOBILE LNX-6514DS-A1M (DUAL) ANTENNAS (1 PER SECTOR, TOTAL OF 2) MOUNTED TO EXIST. STEEL DUNNAGE WITHIN PROP. 24"Øx6'-3"H FLUES ON PROP. ANTENNA MOUNTS (PAINT TO MATCH)



BETA & GAMMA SECTORS
PROP. T-MOBILE KRC118046-1 AIR21 B2p/B4a (QUAD) ANTENNAS (1 PER SECTOR, TOTAL OF 2) MOUNTED TO EXIST. STEEL DUNNAGE WITHIN PROP. 24"Øx6'-3"H FLUES ON PROP. ANTENNA MOUNTS (PAINT TO MATCH)



- PROP. T-MOBILE (4) ANTENNAS
EL. = 66'-2"± AGL
- PROP. T-MOBILE (2) ANTENNAS
EL. = 63'-7"± AGL
- EXIST. T-MOBILE (3) ANTENNAS
EL. = 59'-7"± AGL

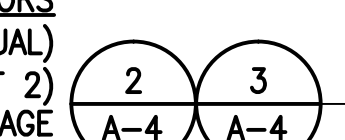
ALL SECTORS
EXIST. T-MOBILE KRC118023-1 AIR21 B2a/B4p (QUAD) ANTENNAS (1 PER SECTOR, TOTAL OF 3) MOUNTED TO EXIST. BUILDING ON EXIST. ANTENNA MOUNTS (TO REMAIN)

ALL SECTORS
EXIST. T-MOBILE GENERIC STYLE 1B TWIN AWS TMA'S (1 PER SECTOR, TOTAL OF 3) MOUNTED TO EXIST. BUILDING ON EXIST. ANTENNA MOUNTS BEHIND EXIST. AIR21 ANTENNAS (TO REMAIN)

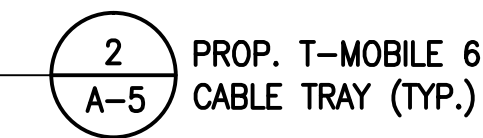
EXIST. T-MOBILE (12) 7/8" COAX CABLES ((6) CAPPED) & (3) DC/FIBER CABLES ROUTED WITHIN EXIST. CABLE TRAYS (TO REMAIN)

PROP. T-MOBILE (3) 6x12 HCS CABLES ROUTED WITHIN EXIST./PROP. CABLE TRAYS

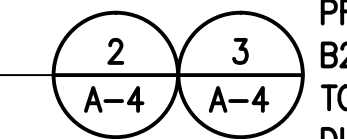
BETA & GAMMA SECTORS
PROP. T-MOBILE LNX-6514DS-A1M (DUAL) ANTENNAS (1 PER SECTOR, TOTAL OF 2) MOUNTED TO EXIST. STEEL DUNNAGE WITHIN PROP. 24"Øx6'-3"H FLUES ON PROP. ANTENNA MOUNTS (PAINT TO MATCH)



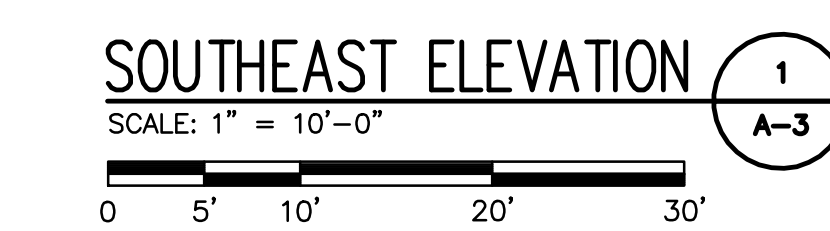
EXIST. T-MOBILE EQUIPMENT WITHIN EXIST. 200 S.F. LEASE AREA ON EXIST. ROOF MOUNTED TO EXIST. PENTHOUSE WALL



BETA & GAMMA SECTORS
PROP. T-MOBILE KRC118046-1 AIR21 B2p/B4a (QUAD) ANTENNAS (1 PER SECTOR, TOTAL OF 2) MOUNTED TO EXIST. STEEL DUNNAGE WITHIN PROP. 24"Øx6'-3"H FLUES ON PROP. ANTENNA MOUNTS (PAINT TO MATCH)



PROP. T-MOBILE (4) ANTENNAS
EL. = 66'-2"± AGL



EXIST. GEN. EXHAUST

TOP OF HVAC UNIT
EL. = 69'-4"± AGL

TOP OF ROOF
EL. = 59'-2"± AGL

FOURTH FLOOR
EL. = 42'-10"± AGL

THIRD FLOOR
EL. = 32'-5"± AGL

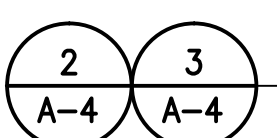
SECOND FLOOR
EL. = 22'-0"± AGL

FIRST FLOOR
EL. = 10'-11"± AGL

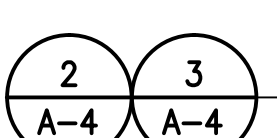
GROUND FLOOR
EL. = 0'-0"± AGL

TO PENTHOUSE

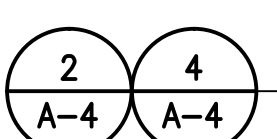
ALPHA SECTOR
PROP. T-MOBILE (1) LNX-6514DS-A1M (DUAL) ANTENNA FACADE MOUNTED TO EXIST. PENTHOUSE ON PROP. ANTENNA MOUNT (PAINT TO MATCH)



ALPHA SECTOR
PROP. T-MOBILE (1) KRC118046-1 AIR21 B2p/B4a (QUAD) ANTENNA FACADE MOUNTED TO EXIST. PENTHOUSE ON PROP. ANTENNA MOUNT (PAINT TO MATCH)



ALPHA SECTOR
PROP. T-MOBILE (1) RRUS11-B12 FACADE MOUNTED TO EXIST. PENTHOUSE ON PROP. UNISTRUTS (PAINT TO MATCH)



ALL SECTORS
EXIST. T-MOBILE KRC118023-1 AIR21 B2a/B4p (QUAD) ANTENNAS (1 PER SECTOR, TOTAL OF 3) MOUNTED TO EXIST. BUILDING ON EXIST. ANTENNA MOUNTS (TO REMAIN)

TOP OF STAIRWELL PENTHOUSE
EL. = 67'-7"± AGL

PROP. T-MOBILE (2) ANTENNAS
EL. = 63'-7"± AGL

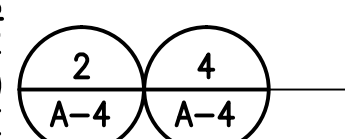
EXIST. T-MOBILE (3) ANTENNAS
EL. = 59'-7"± AGL

ALL SECTORS
EXIST. T-MOBILE GENERIC STYLE 1B TWIN AWS TMA'S (1 PER SECTOR, TOTAL OF 3) MOUNTED TO EXIST. BUILDING ON EXIST. ANTENNA MOUNTS BEHIND EXIST. AIR21 ANTENNAS (TO REMAIN)

EXIST. T-MOBILE (12) 7/8" COAX CABLES ((6) CAPPED) & (3) DC/FIBER CABLES ROUTED WITHIN EXIST. CABLE TRAYS (TO REMAIN)

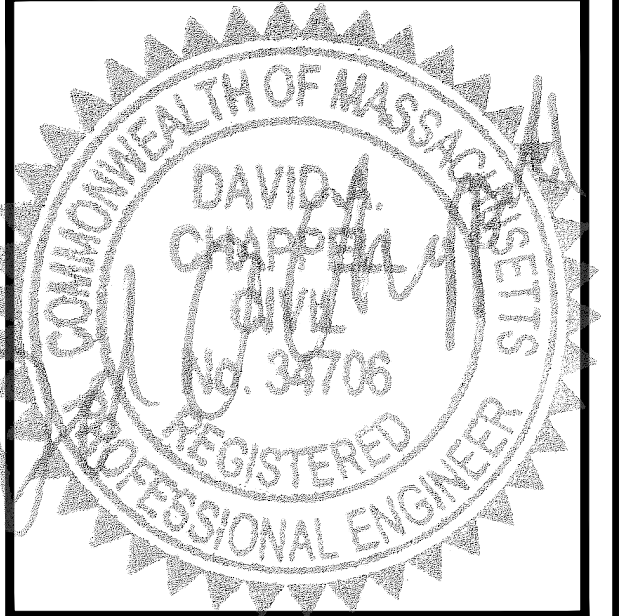
PROP. T-MOBILE (3) 6x12 HCS CABLES ROUTED WITHIN EXIST./PROP. CABLE TRAYS

BETA & GAMMA SECTORS
PROP. T-MOBILE RRUS11-B12 (1 PER SECTOR, TOTAL OF 2) MOUNTED TO PROP. STEEL DUNNAGE ON PROP. MOUNTS (PAINT TO MATCH)



SOUTHWEST ELEVATION

SCALE: 1" = 10'-0"



APPROVALS

STRUCTURE OWNER _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
A/E _____

PROJECT NO: 4BN0355A

DRAWN BY: CMC

CHECKED BY: JMT

VERSION

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4BN0355A
MOUNT AUBURN
HOSPITAL

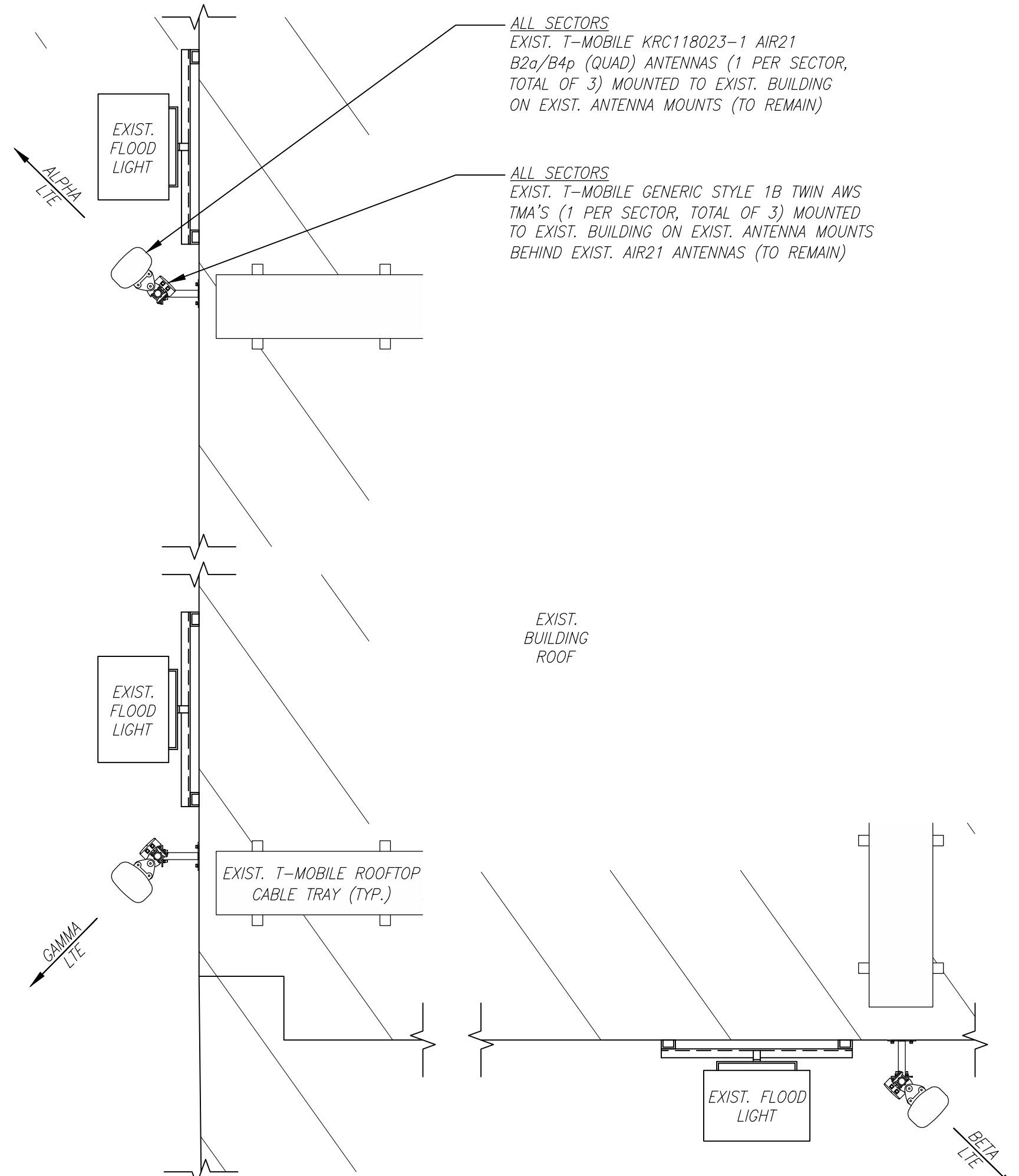
300 MOUNT AUBURN STREET
CAMBRIDGE, MA 02238

SHEET TITLE

ANTENNA DETAILS

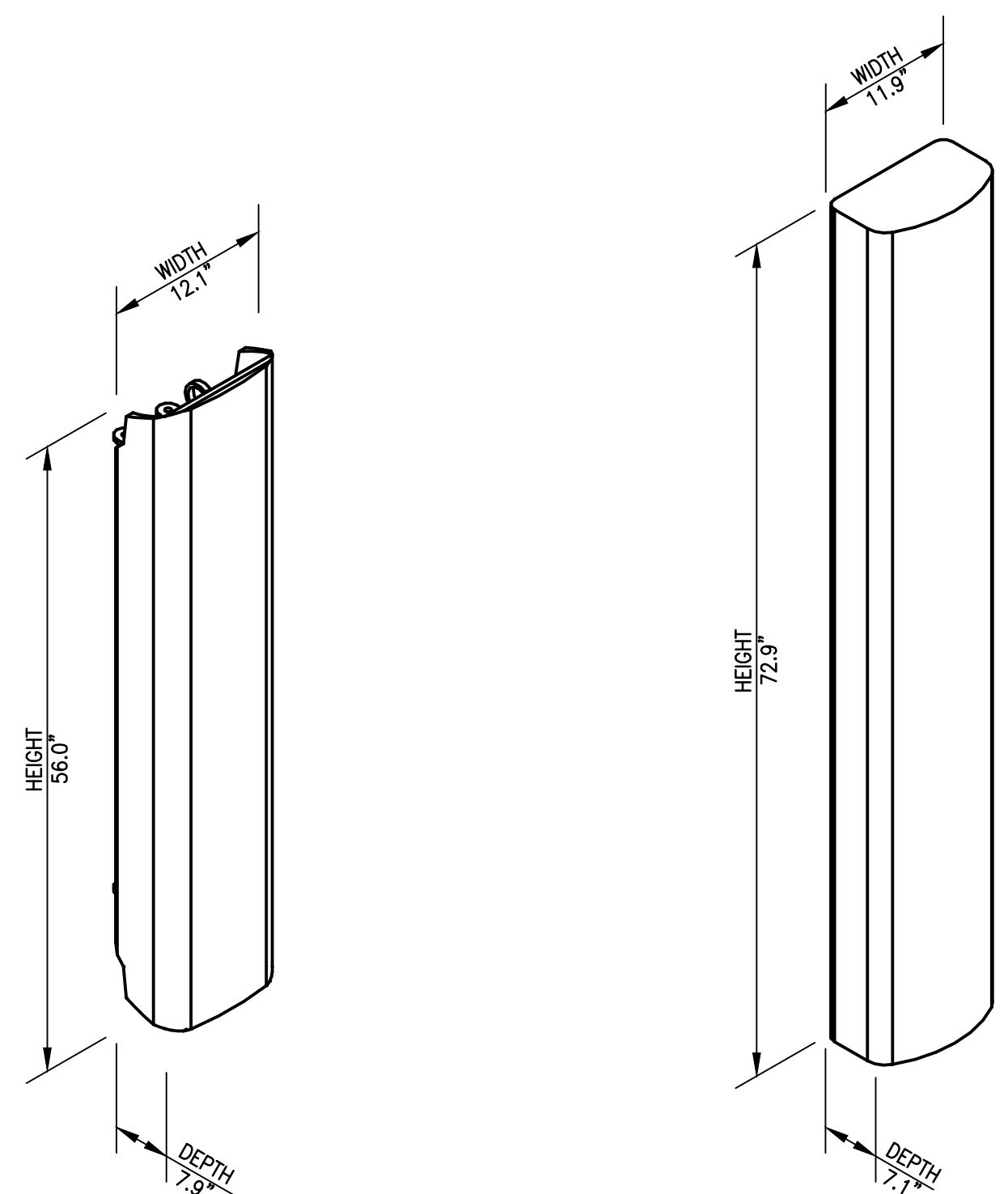
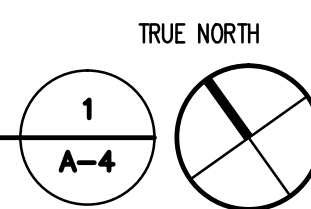
SHEET NUMBER

A-4



EXIST. ANTENNA PLAN

SCALE: 3/8" = 1'-0"

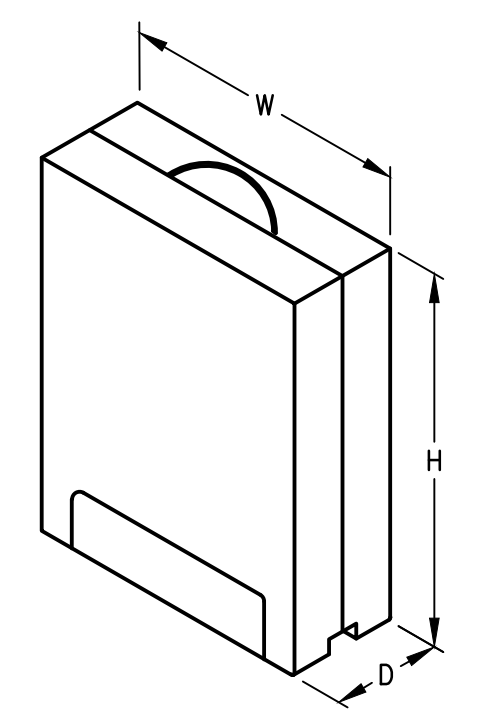
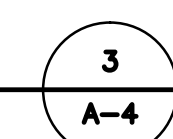


ERICSSON KRC118046-1 AIR21 B2P/B4A (QUAD) ANTENNA
DIMENSIONS: 56.0"H x 12.1"W x 7.9"D
WEIGHT: 70.0 LBS
1 PER SECTOR, TOTAL OF 3

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

ANTENNA DETAILS

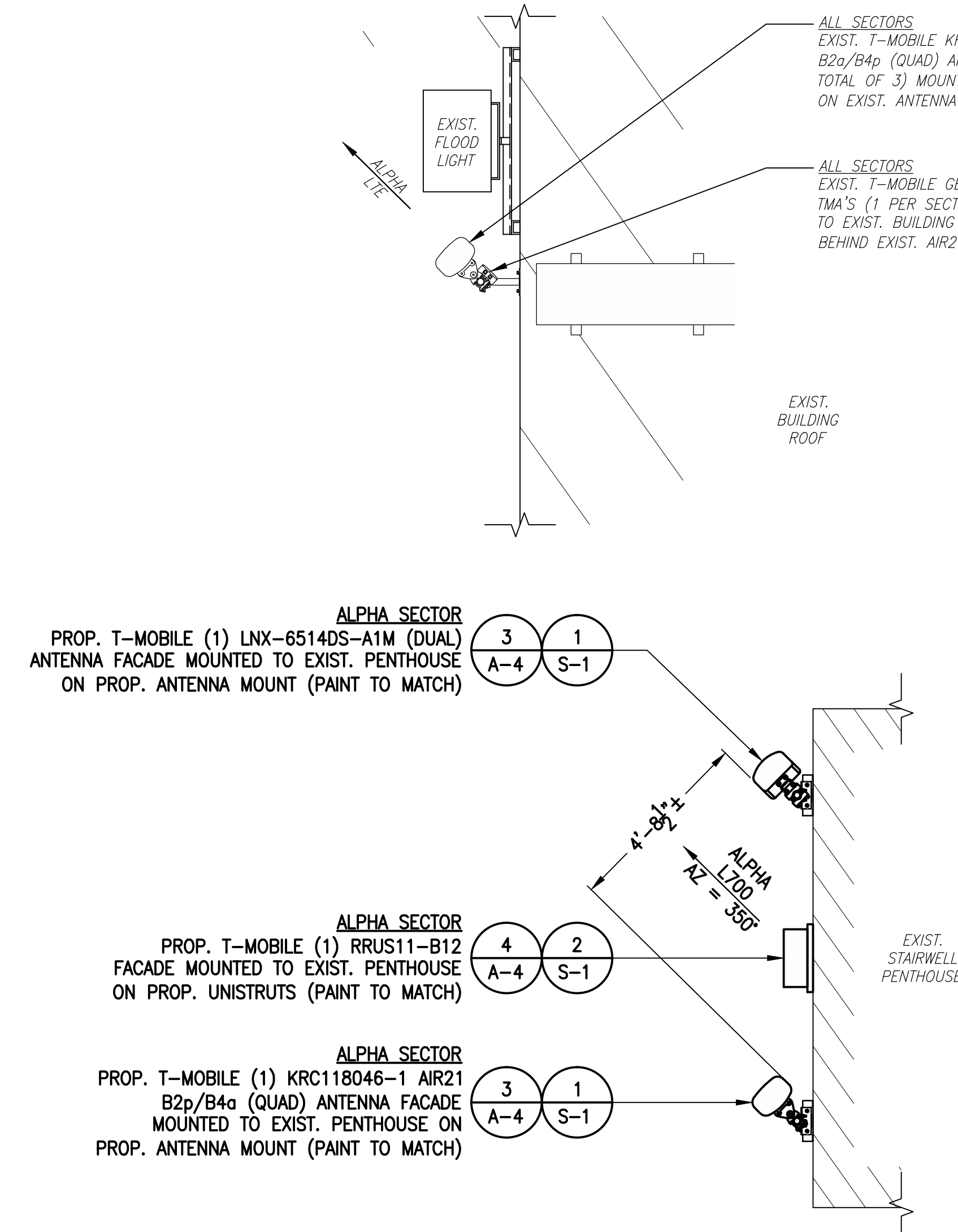
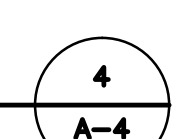
SCALE: N.T.S.



RRUS11 BAND 12
DIMENSIONS: 20.0"H x 17"W x 7"D
WEIGHT: 50.7 LBS
1 PER SECTOR, TOTAL OF 3

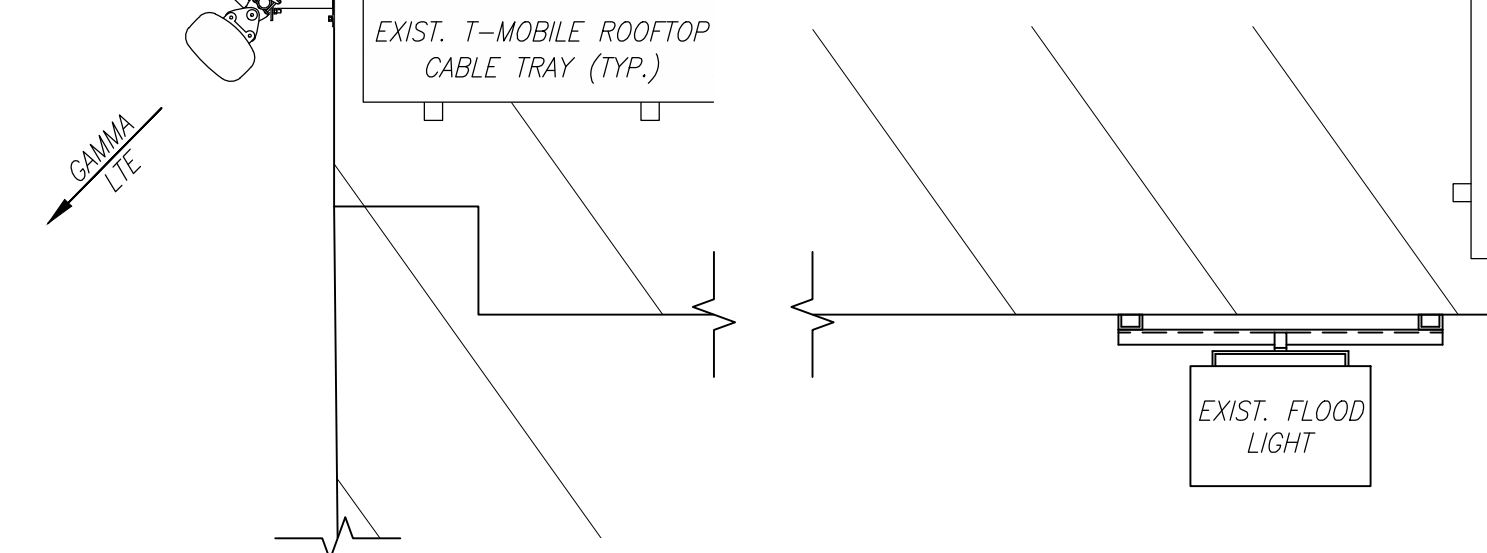
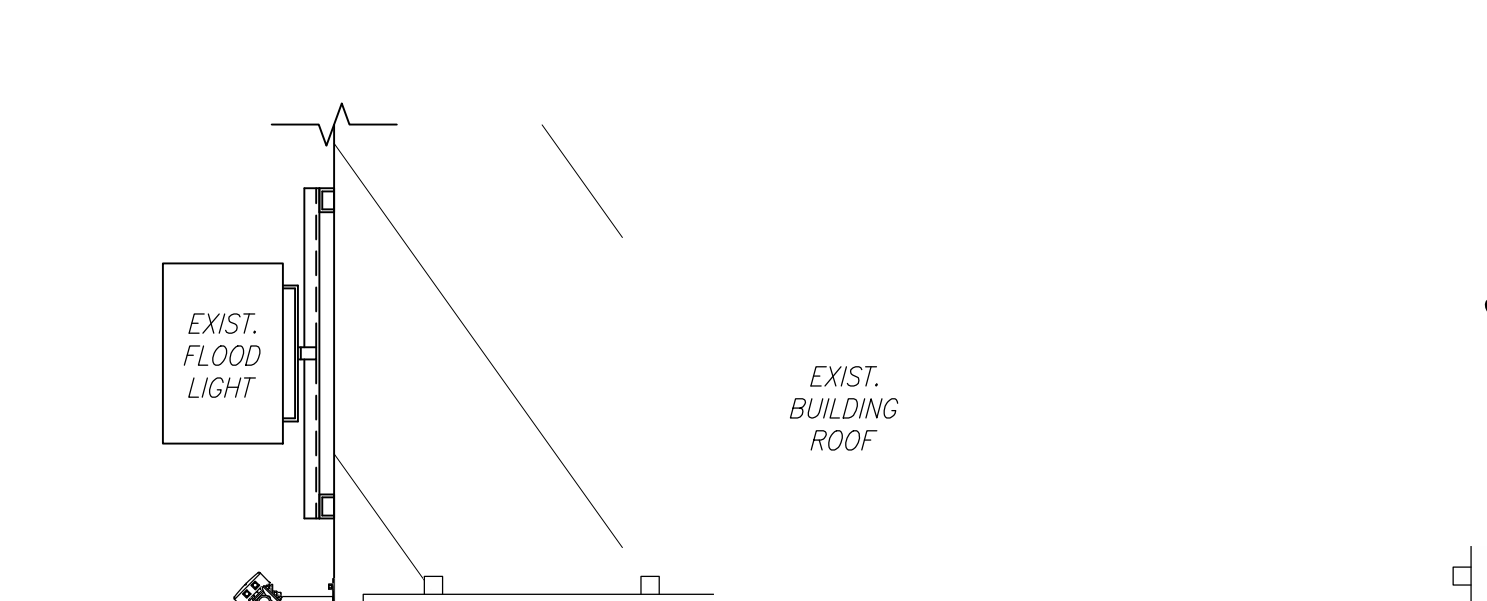
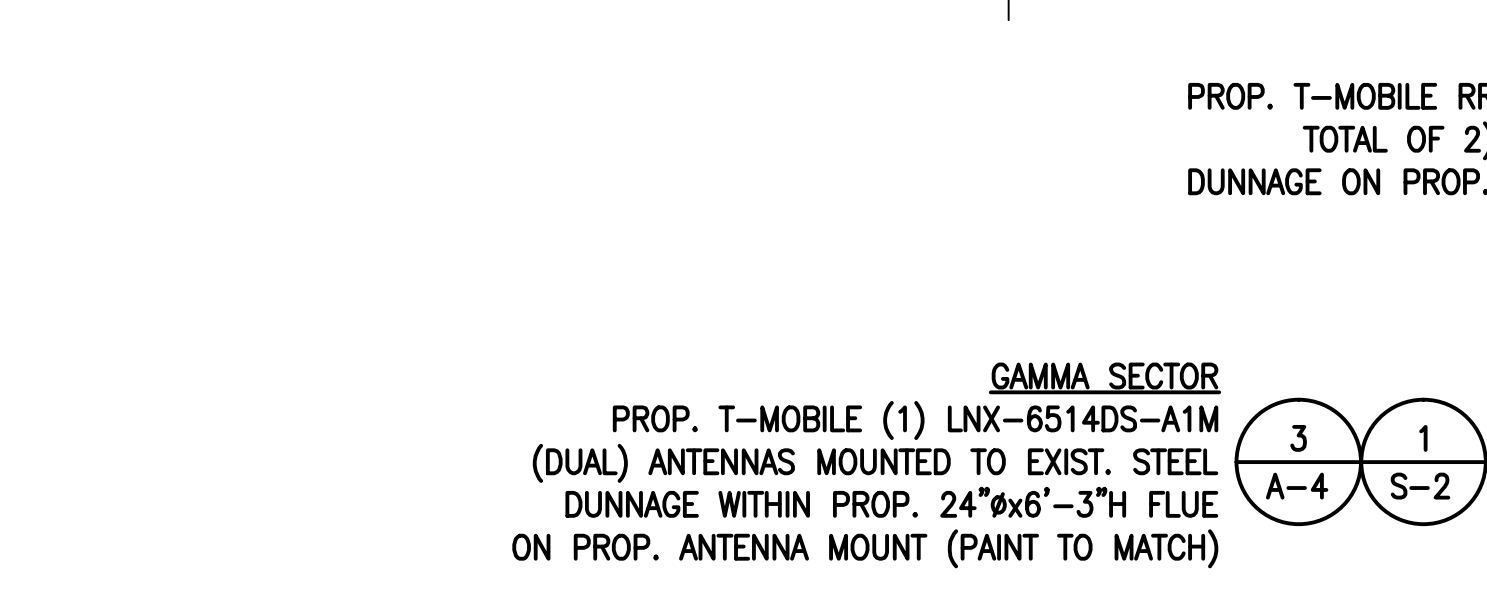
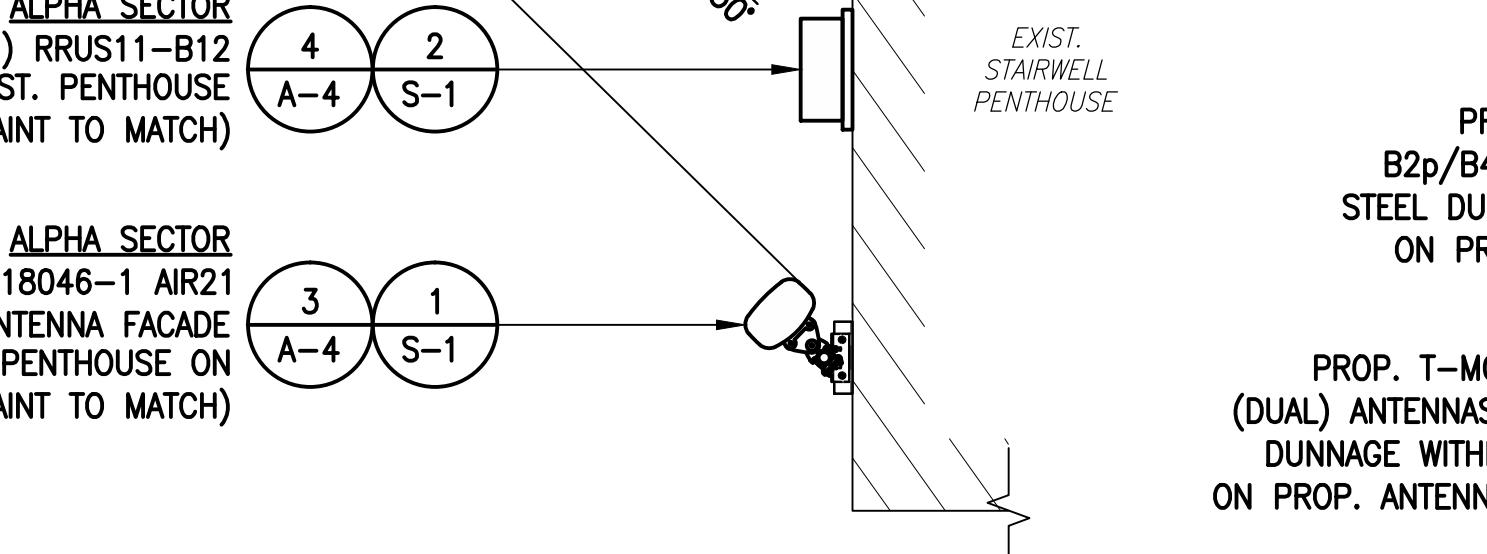
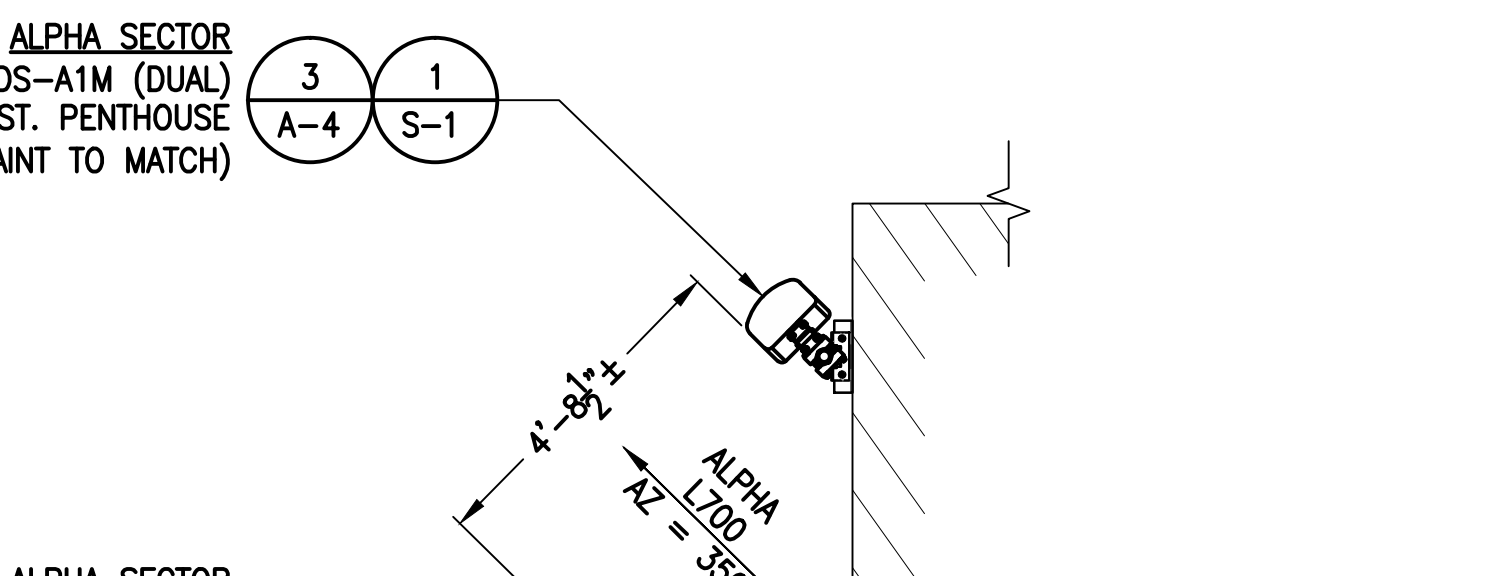
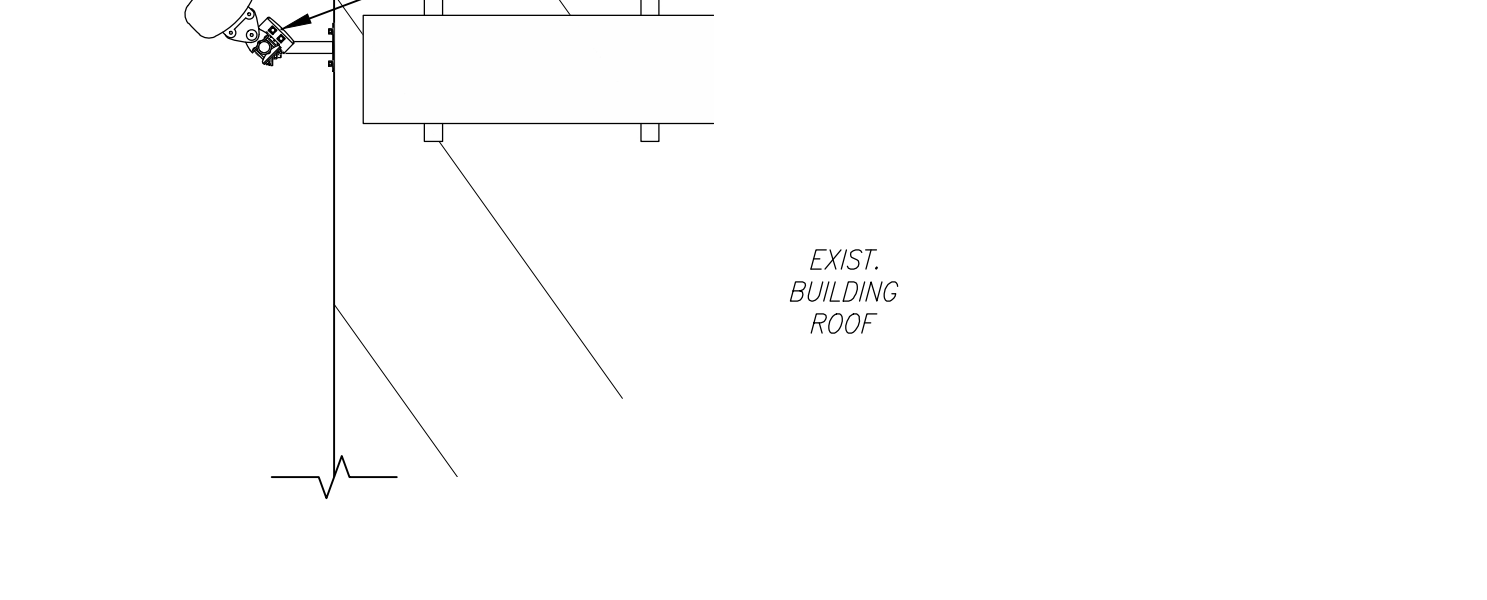
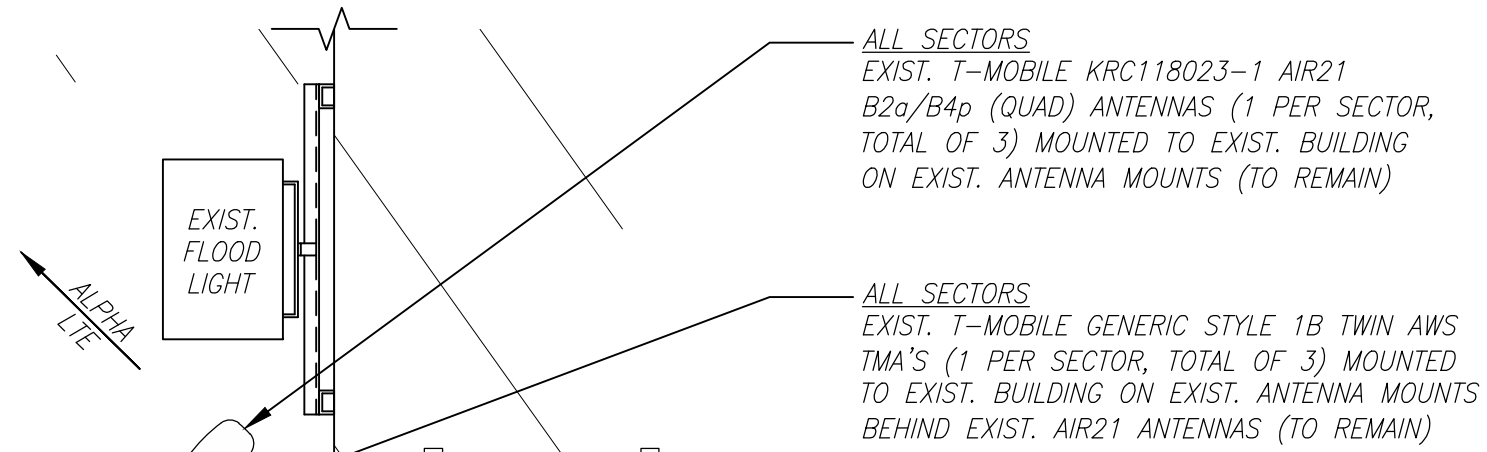
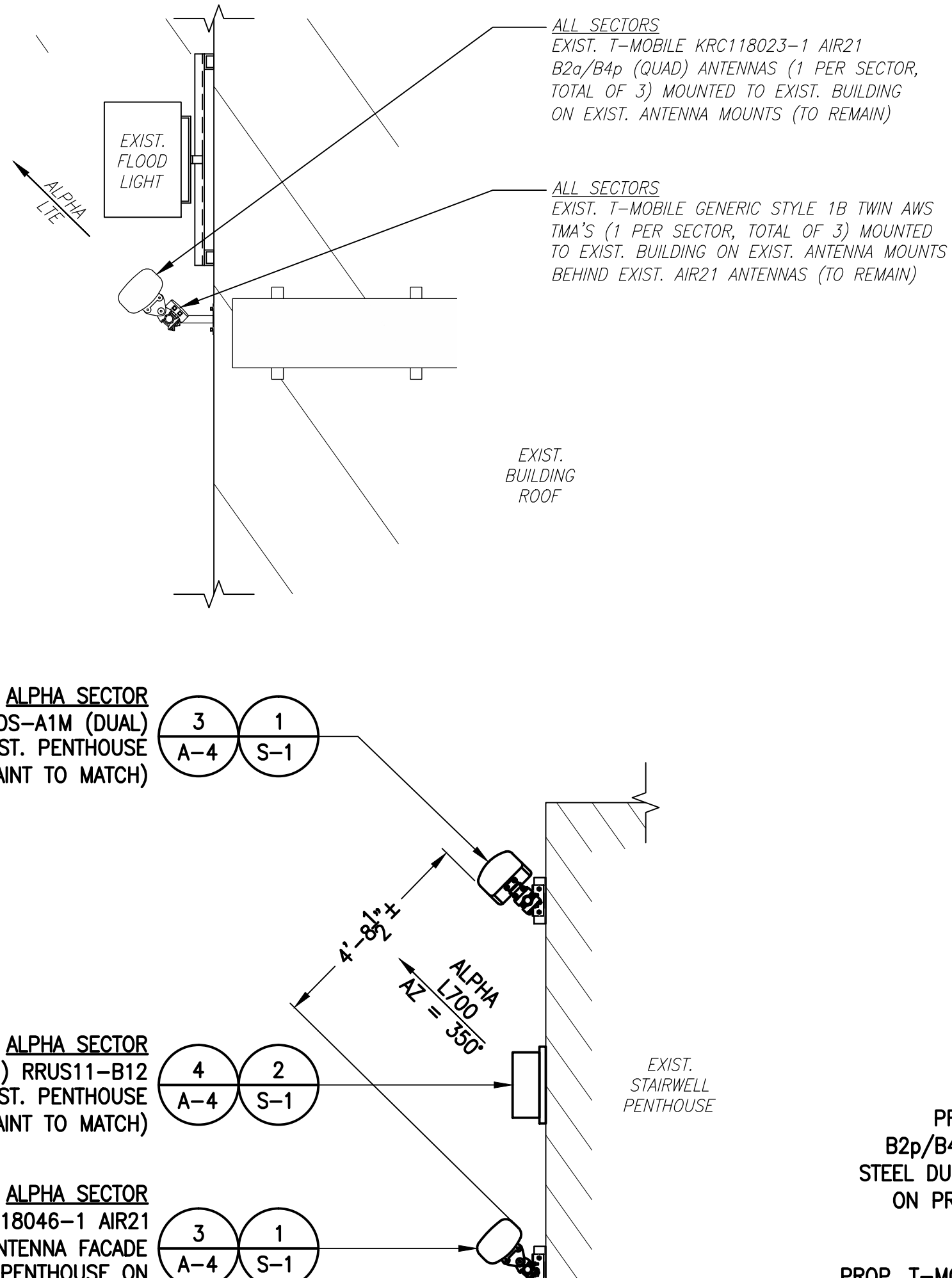
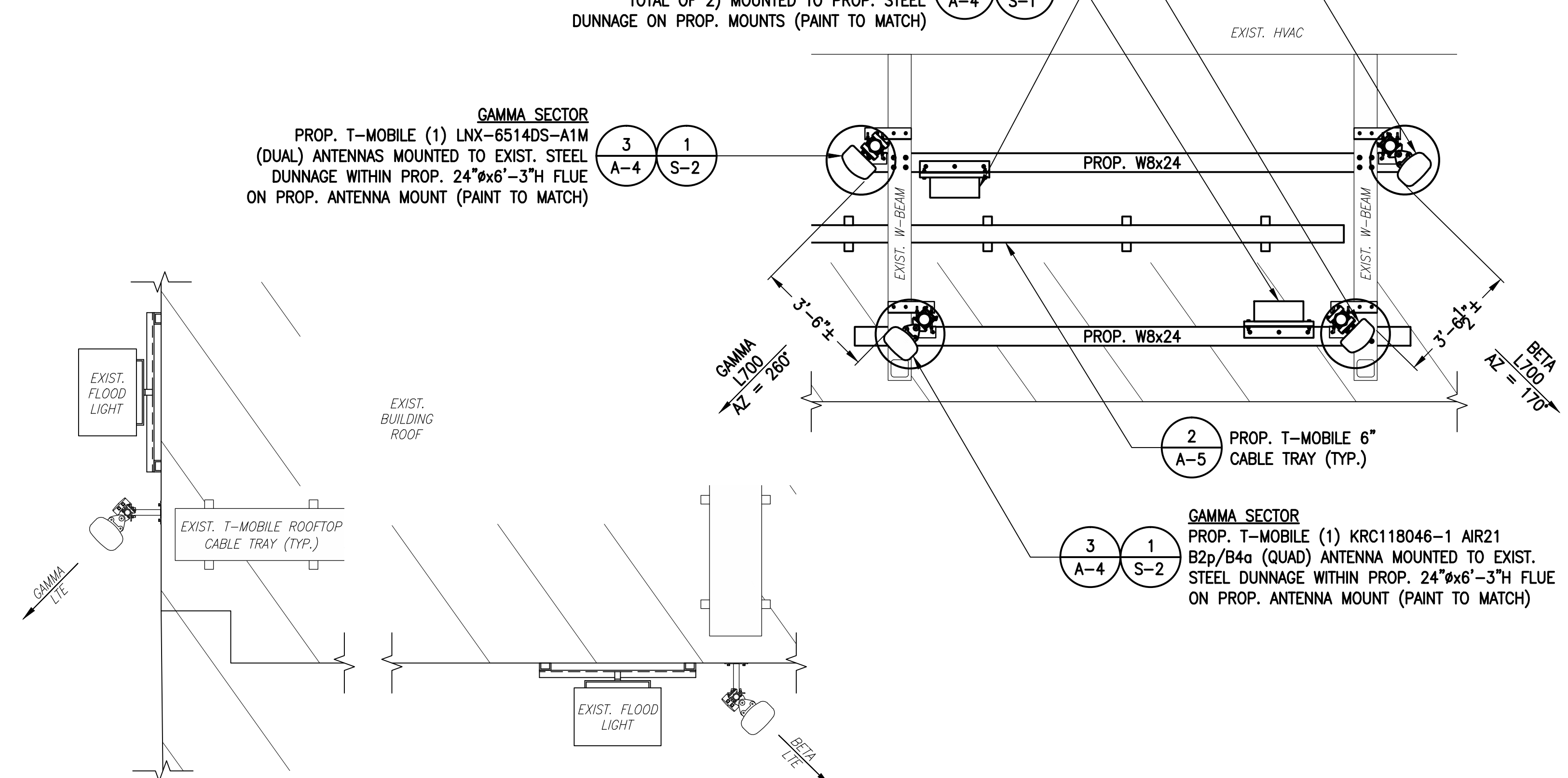
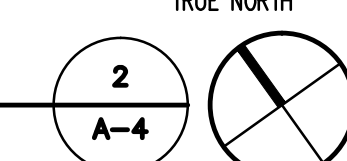
RRU DETAIL

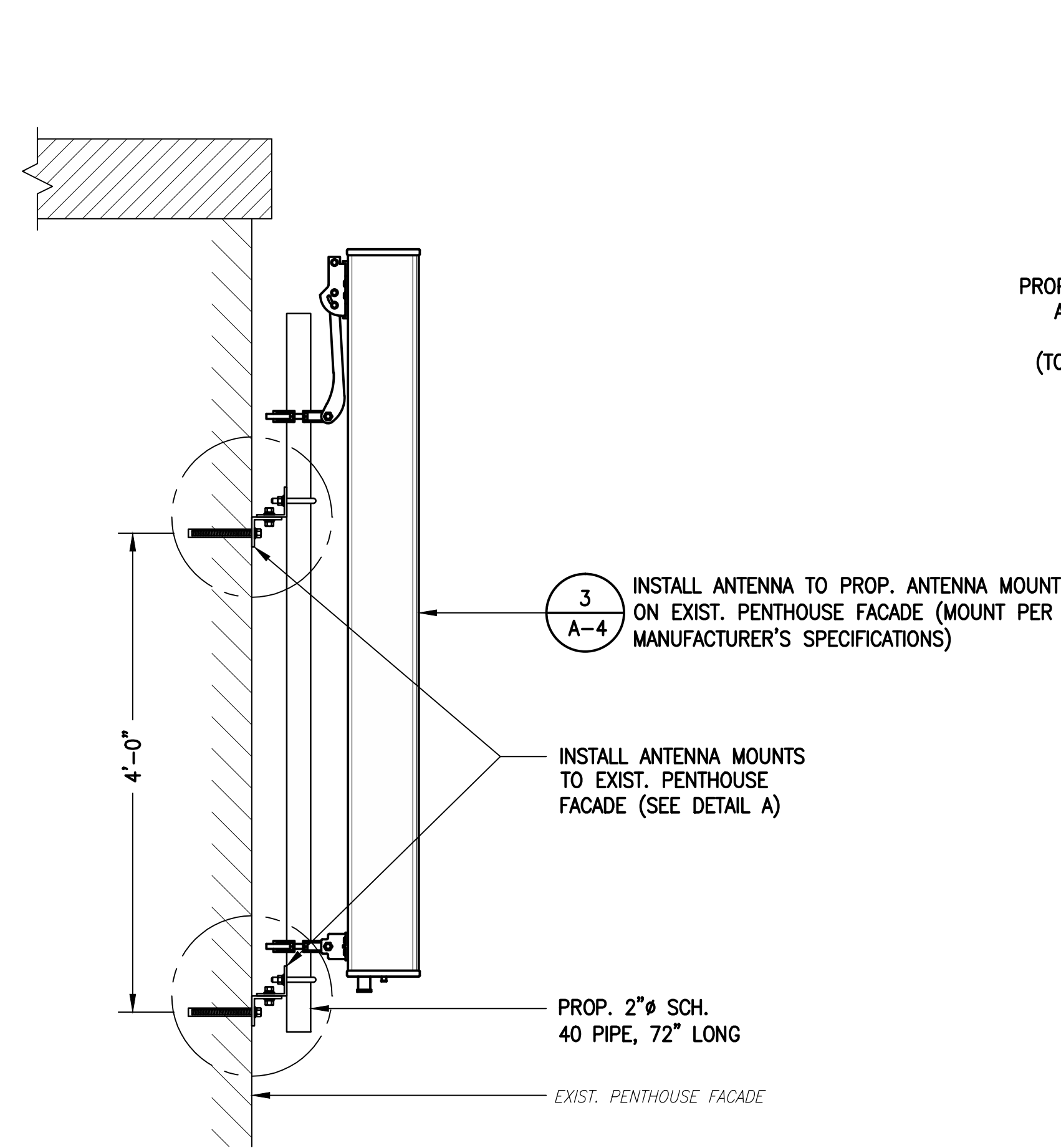
SCALE: N.T.S.



PROP. ANTENNA PLAN

SCALE: 3/8" = 1'-0"



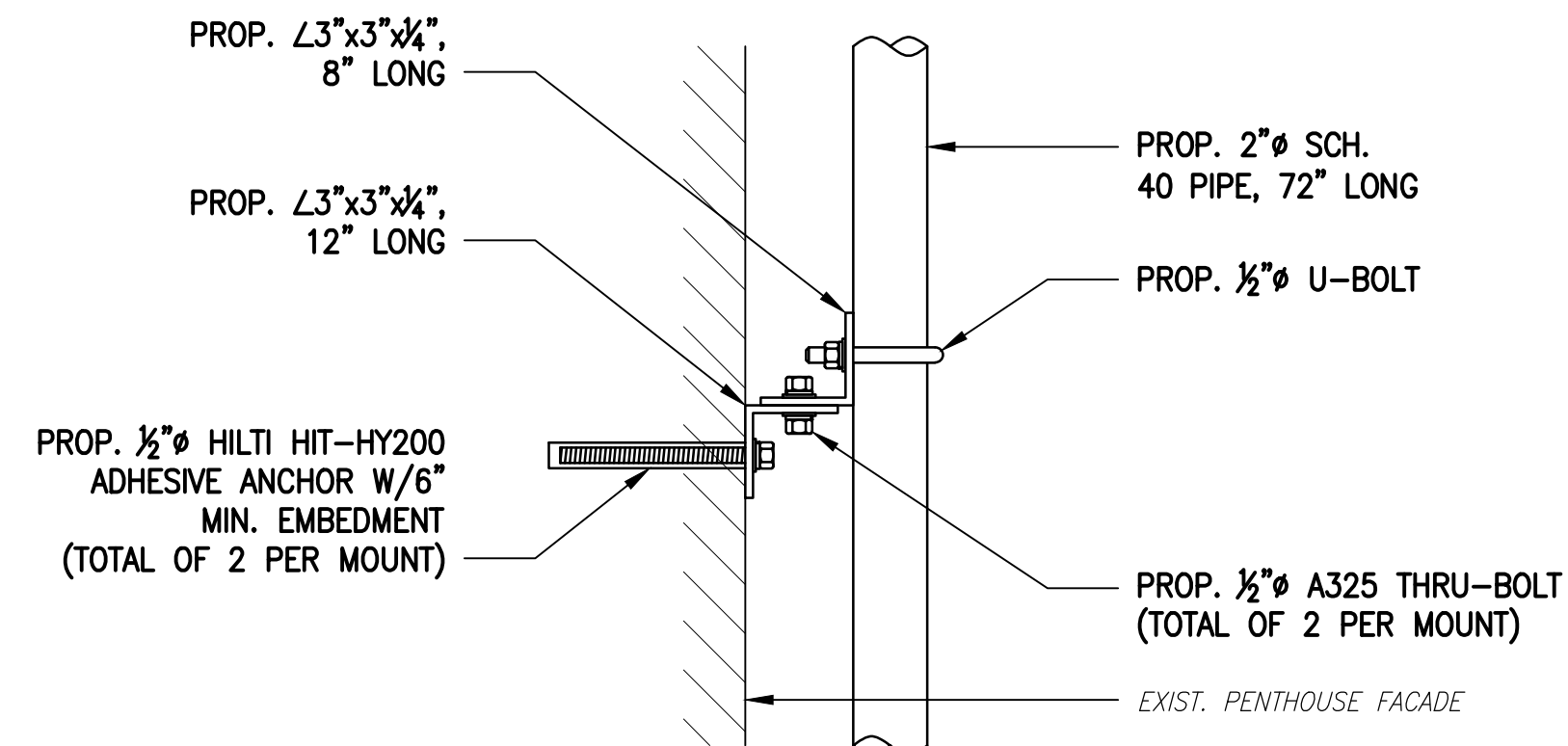


ALPHA SECTOR

ANTENNA MOUNTING DETAIL

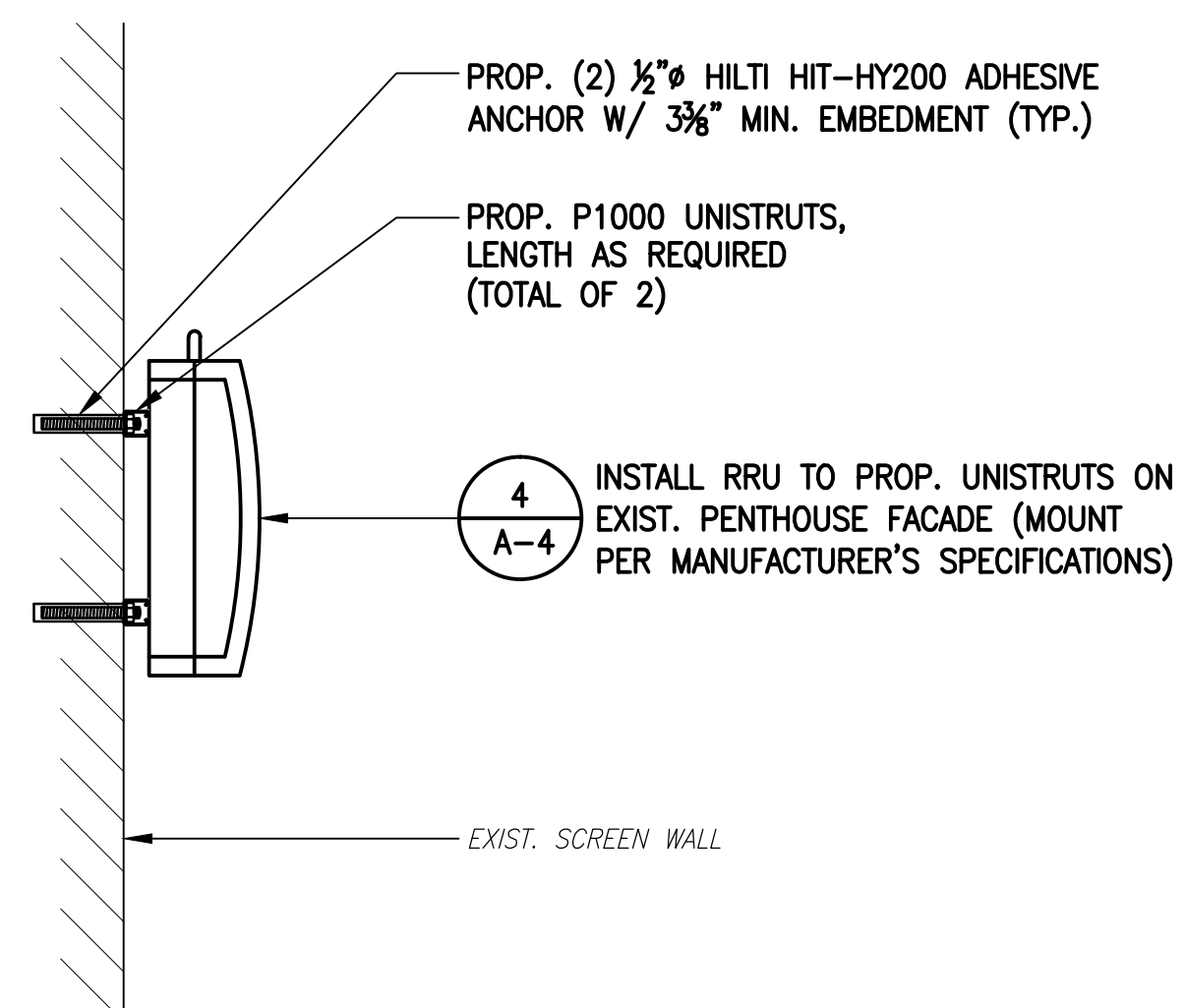
N.T.S.

1
S-1



NOTE:
ALL ANTENNAS, PIPES &
HARDWARE TO BE PAINTED TO
MATCH EXISTING BUILDING FACADE.

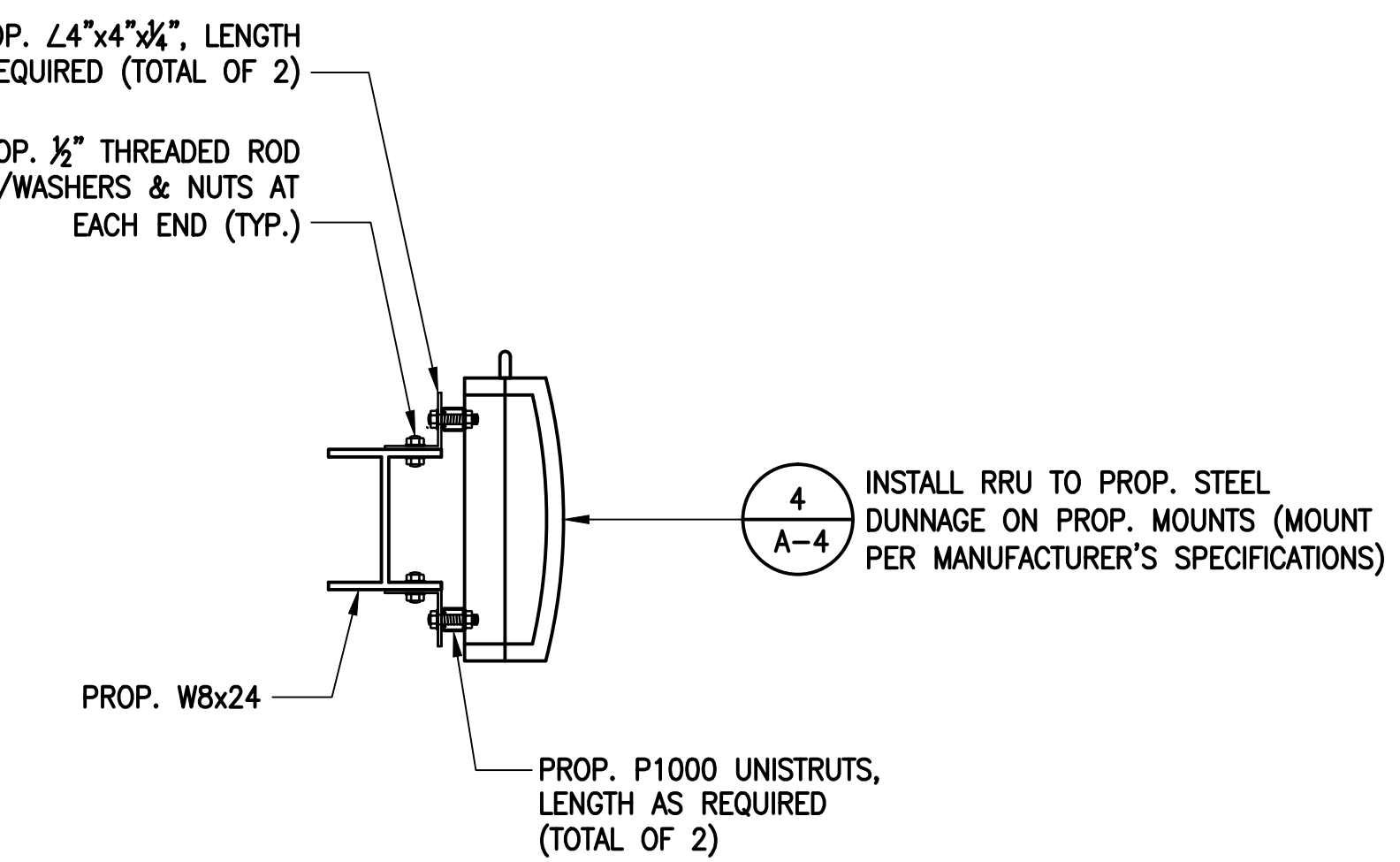
DETAIL A



ALPHA SECTOR

RRU MOUNTING DETAILS

SCALE: N.T.S.



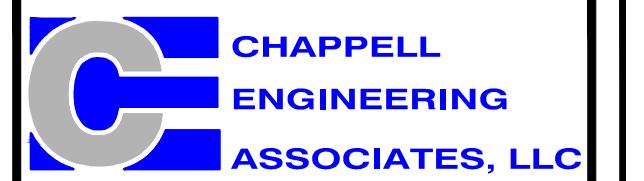
BETA & GAMMA SECTORS

NOTES:

1. WEATHER SEAL AROUND EXTERIOR WALL ATTACHMENT ANGLES WITH SILICONE SEALANT.
2. PAINT ALL ANTENNAS, MOUNTS AND ASSOCIATED EQUIPMENT TO MATCH BUILDING FACADE.
3. ALL COAX IS TO BE NEATLY BUNDLED AND PAINTED TO MATCH THE BUILDING FACADE.
4. VERIFY WITH ANTENNA BRACKET PRIOR TO CONSTRUCTION.
5. TOP HEIGHT OF PROPOSED ANTENNAS TO MATCH TOP HEIGHT OF EXISTING ANTENNAS.

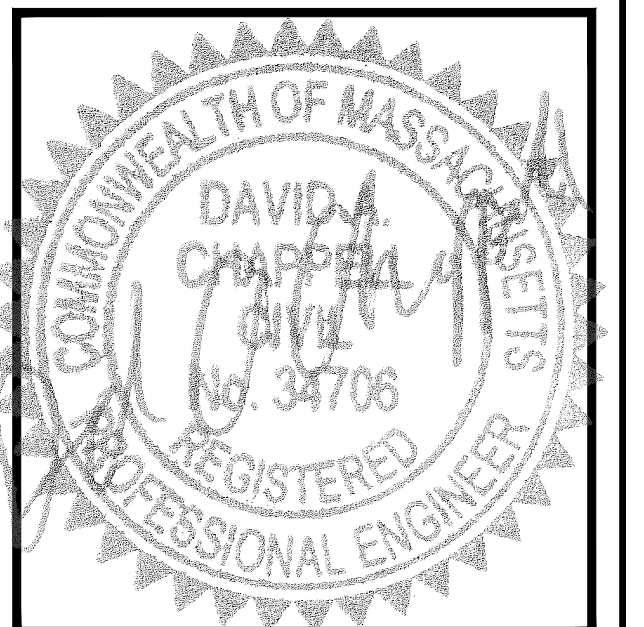


T-MOBILE NORTHEAST LLC
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
OFFICE: (508) 286-2700



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: 4BN0355A

DRAWN BY: CMC

CHECKED BY: JMT

VERSION

NO.	DATE	DESCRIPTION
2	02/23/17	CONSTRUCTION FINAL
1	01/09/17	CONSTRUCTION
0	10/04/16	CONSTRUCTION REVIEW

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4BN0355A
MOUNT AUBURN
HOSPITAL

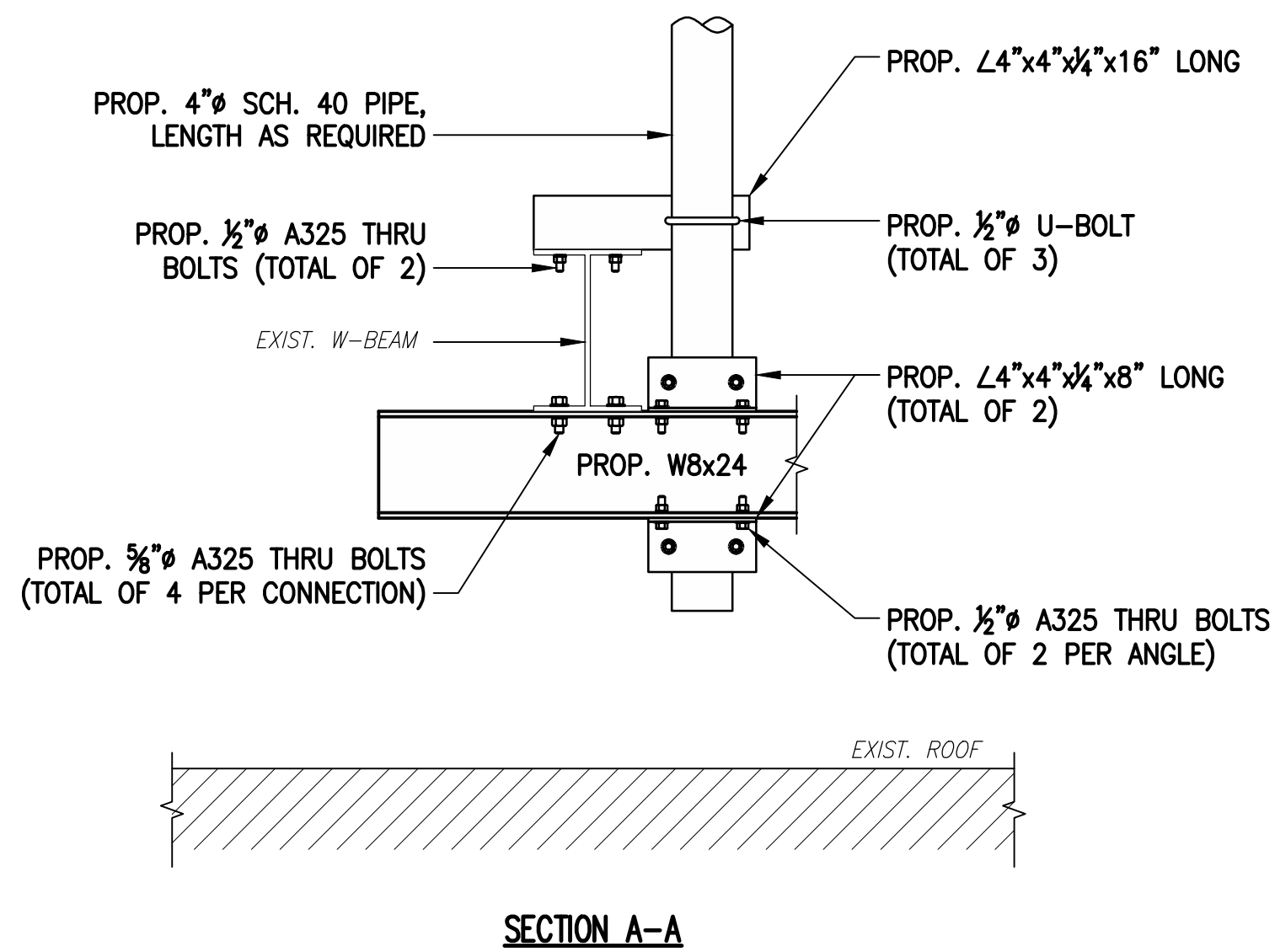
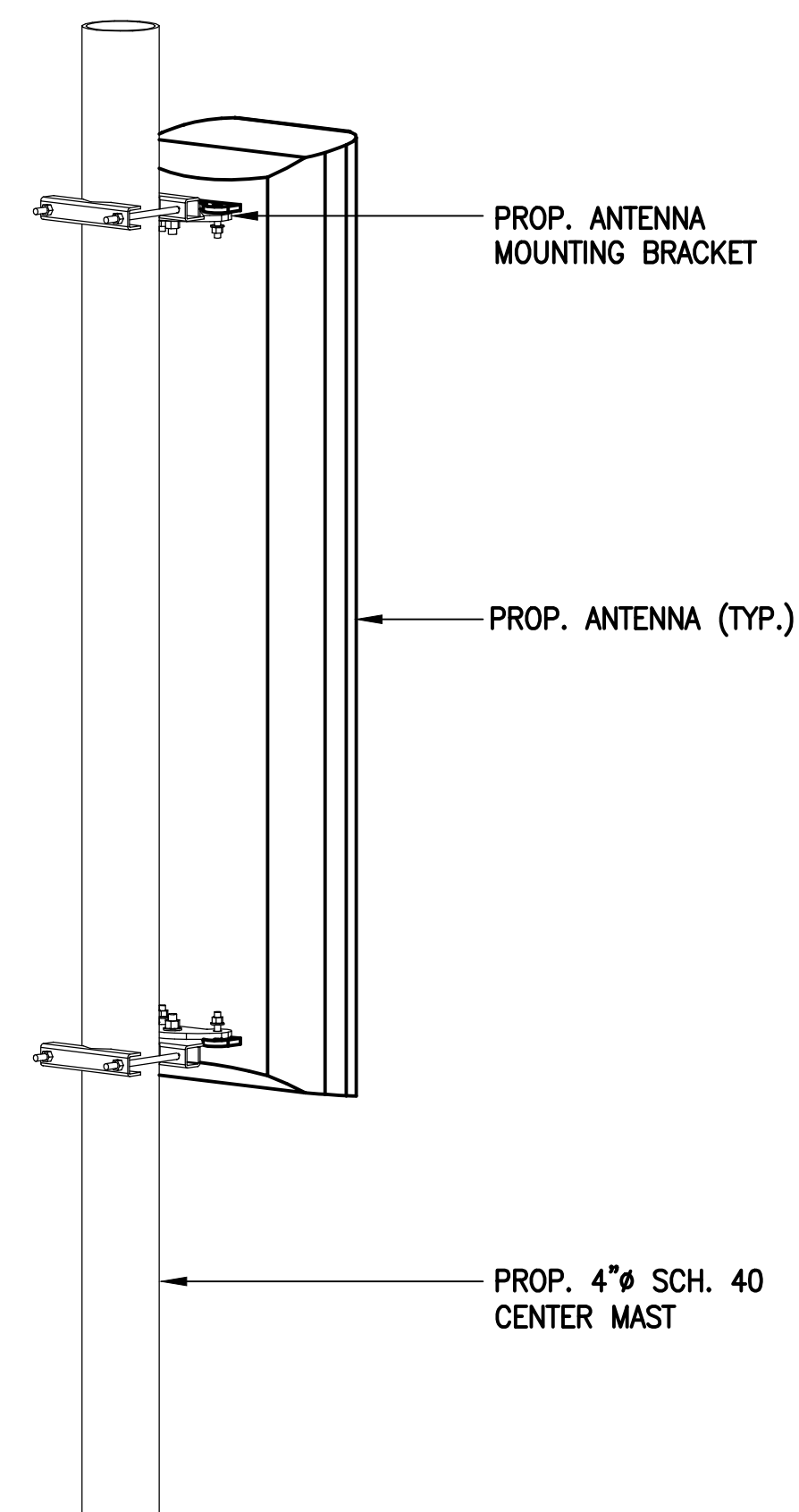
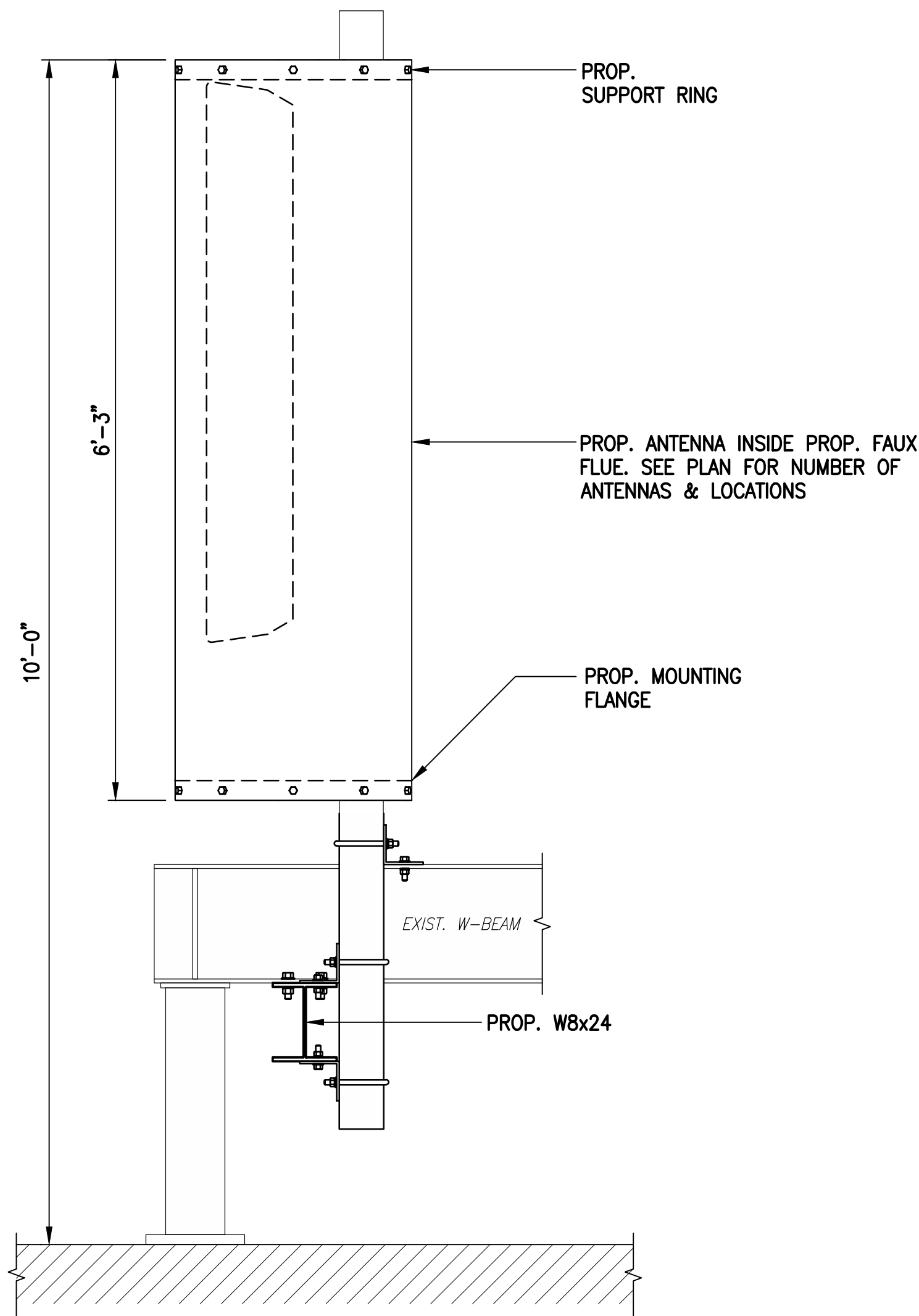
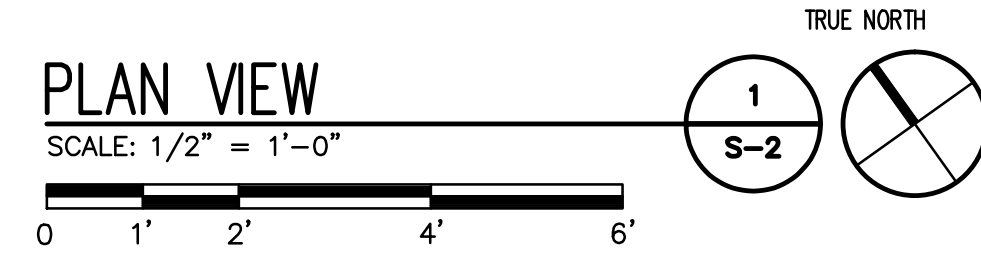
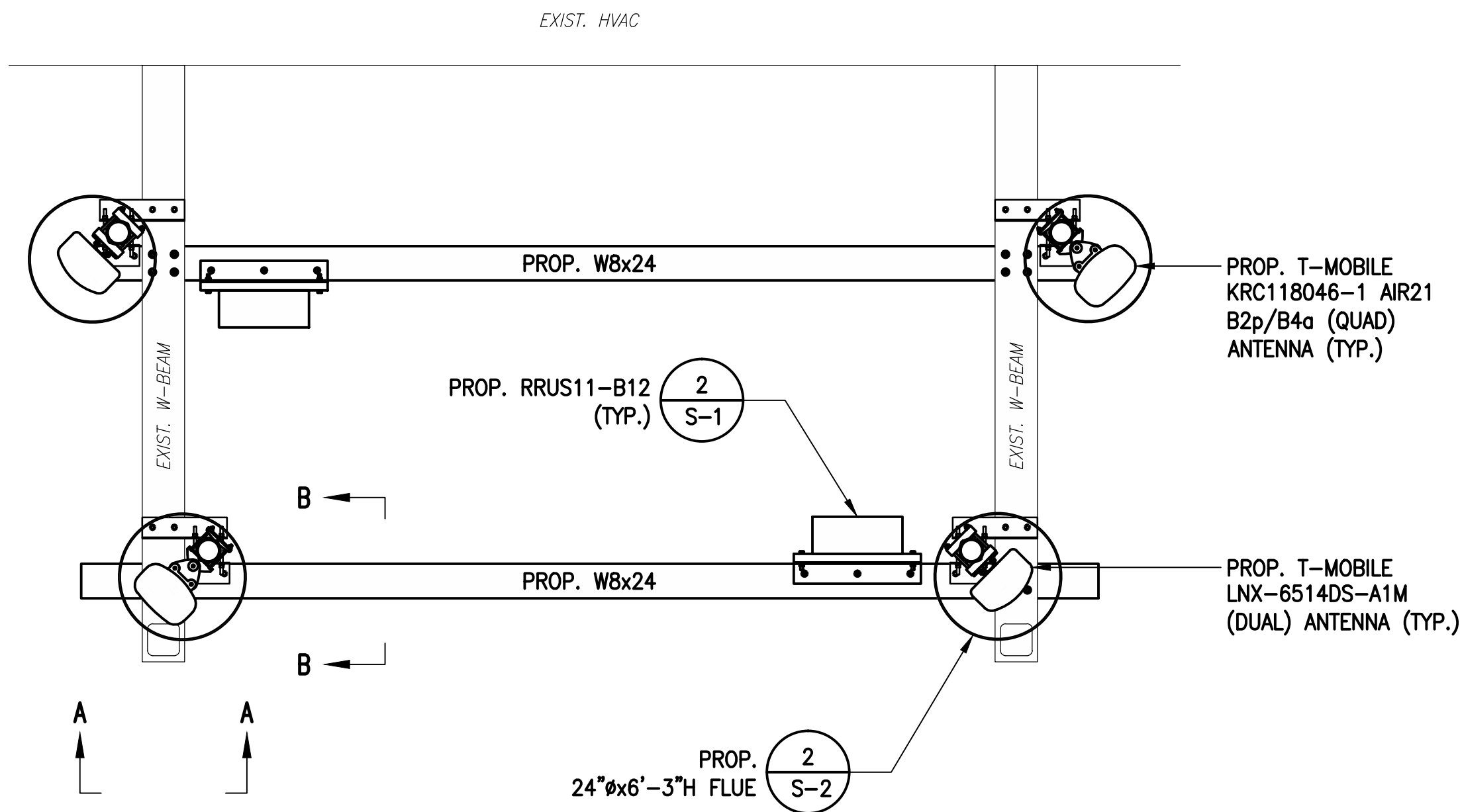
300 MOUNT AUBURN STREET
CAMBRIDGE, MA 02238

SHEET TITLE

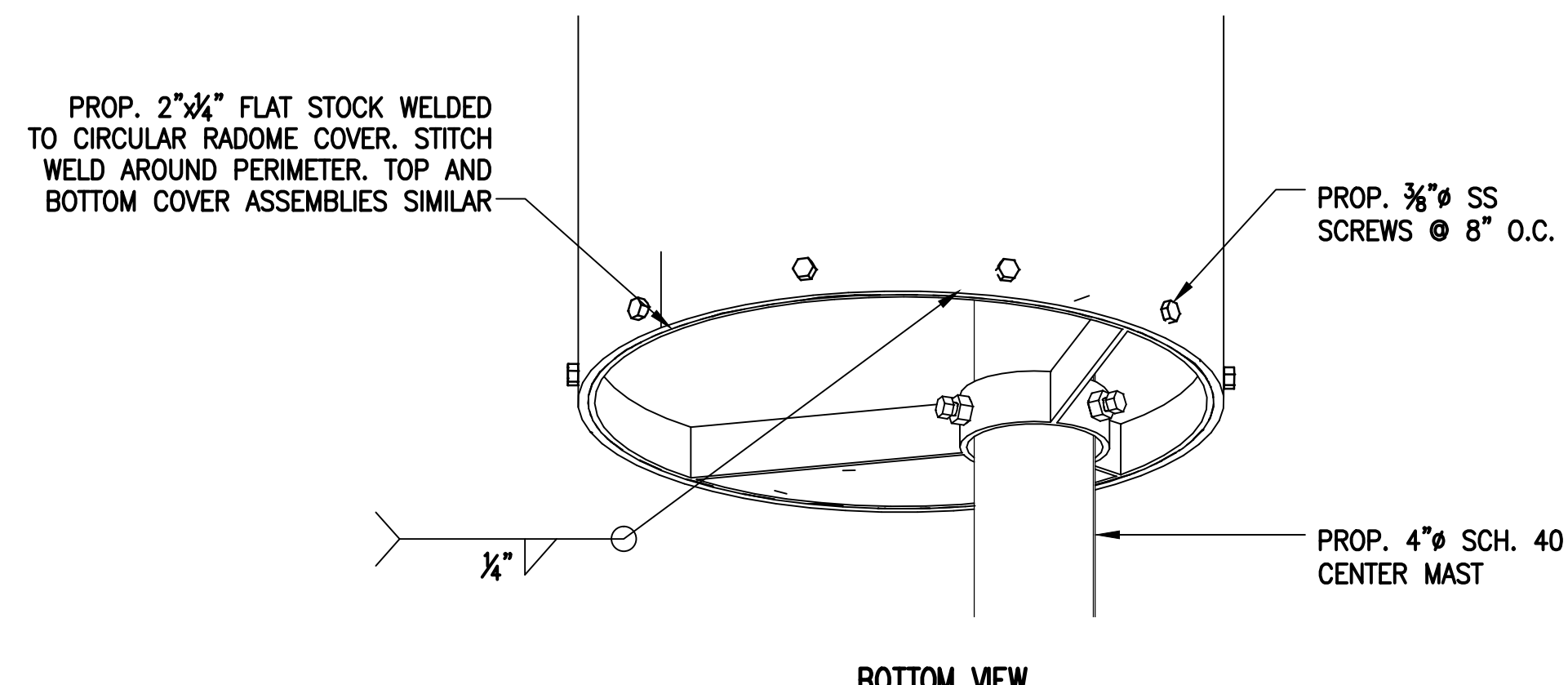
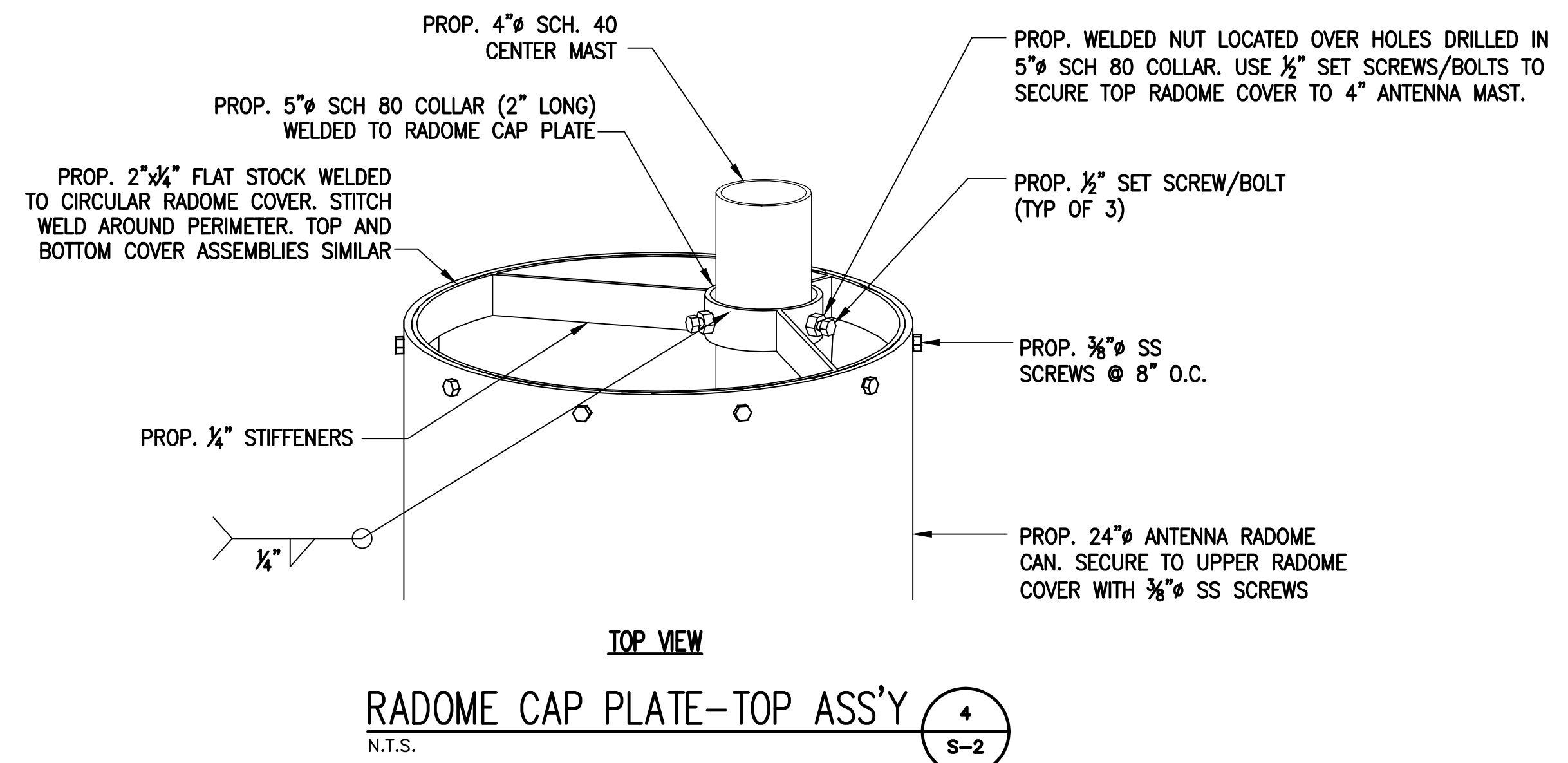
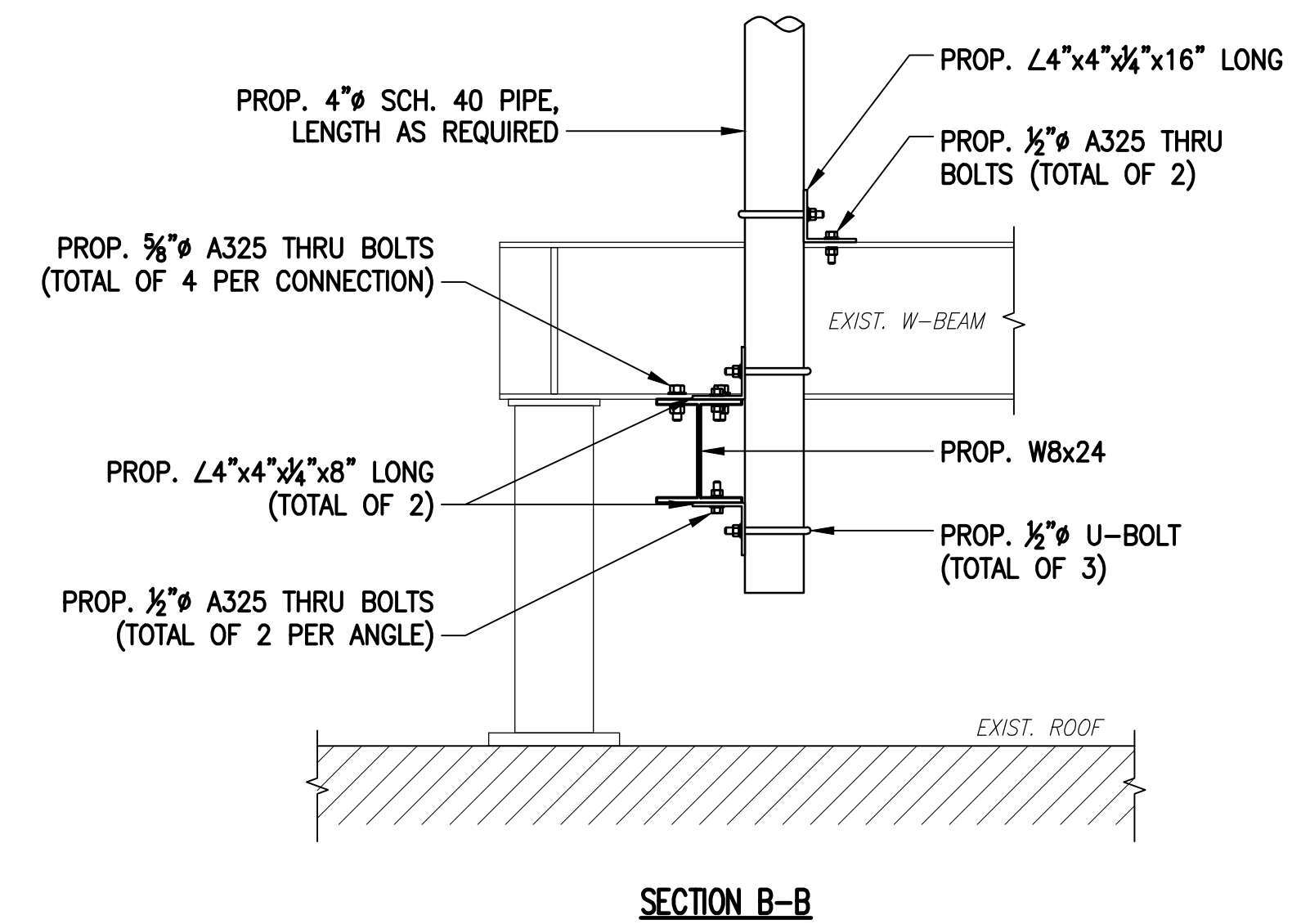
STRUCTURAL DETAILS
ALPHA SECTOR & RRUS

SHEET NUMBER

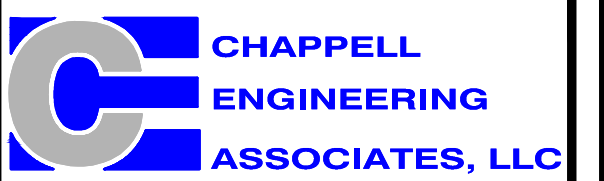
S-1



BILL OF MATERIALS				
ITEM	DESCRIPTION	SIZE	QTY.	NOTES
1	MOUNTING FLANGE	24" O.D.	1 EA	SEE DETAIL THIS SHEET FOR FABRICATION
2	SUPPORT RING	24" O.D.	1 EA	SEE DETAIL THIS SHEET FOR FABRICATION
3	FIBERGLASS RADOME ASSEMBLY	6'-3"x6'24"± DIA	1 EA	PAINTED TO MATCH

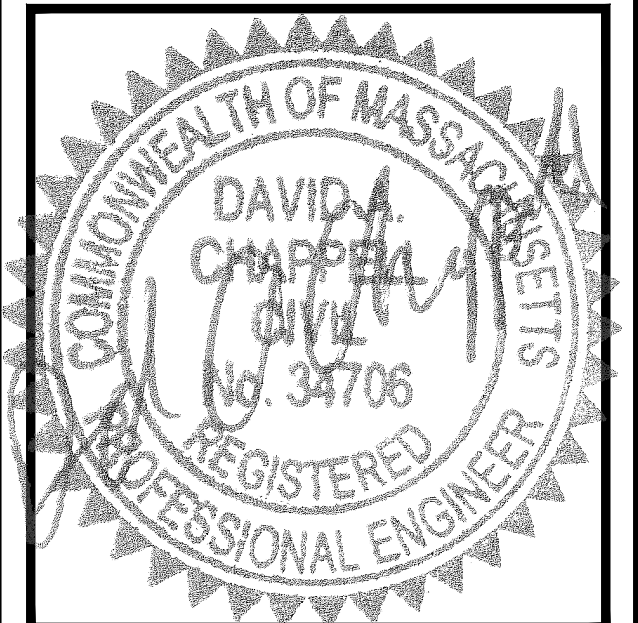


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www.chappellengineering.com



APPROVALS

STRUCTURE OWNER _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
A/E _____

PROJECT NO: 4BN0355A

DRAWN BY: CMC

CHECKED BY: JMT

VERSION

NO.	DATE	DESCRIPTION
2	02/23/17	CONSTRUCTION FINAL
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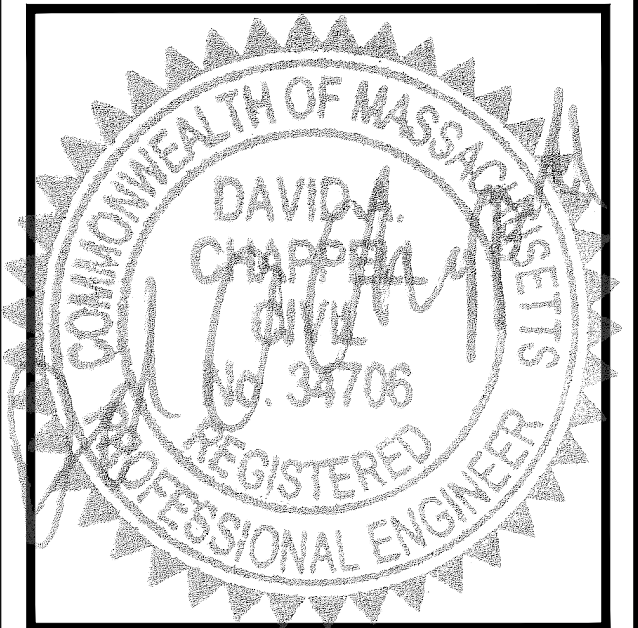
4BN0355A
MOUNT AUBURN
HOSPITAL
300 MOUNT AUBURN STREET
CAMBRIDGE, MA 02238

SHEET TITLE

STRUCTURAL DETAILS
BETA & GAMMA SECTORS

SHEET NUMBER

S-2



APPROVALS	
STRUCTURE OWNER	_____
LEASING	_____
R.F.	_____
ZONING	_____
CONSTRUCTION	_____
A/E	_____

PROJECT NO: 4BN0355A

DRAWN BY: CMC

CHECKED BY: JMT

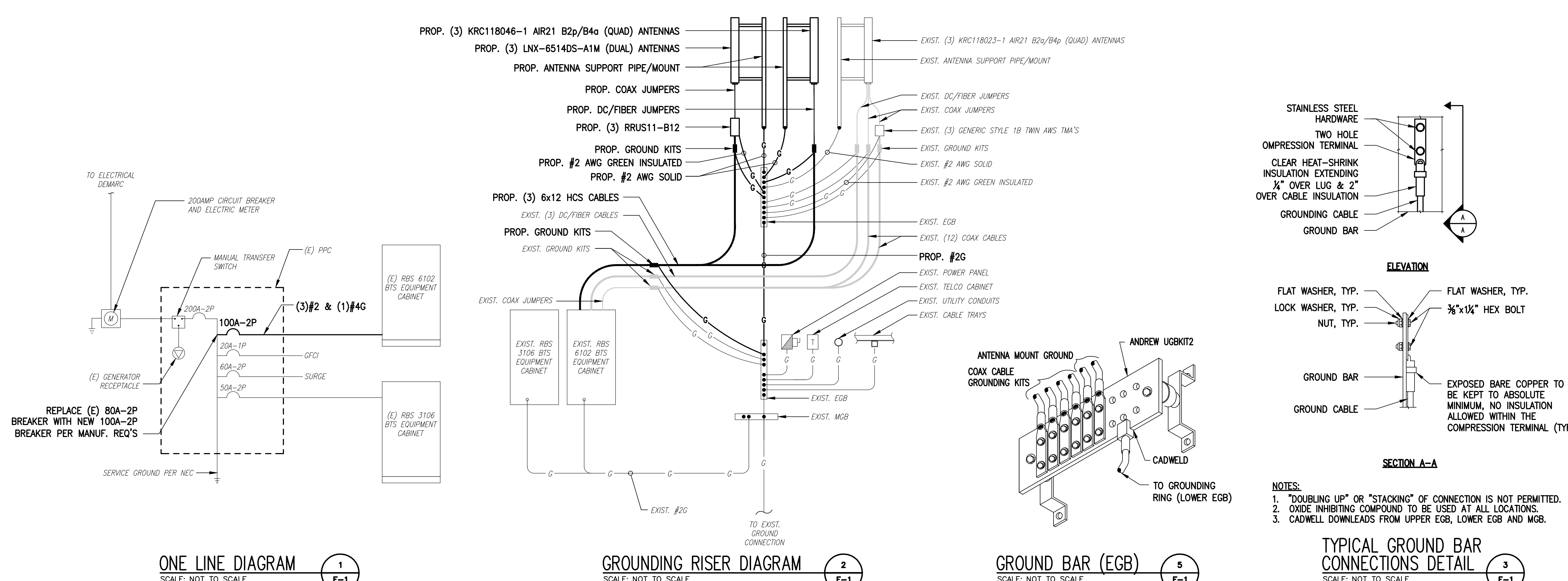
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4BN0355A
MOUNT AUBURN
HOSPITAL
300 MOUNT AUBURN STREET
CAMBRIDGE, MA 02238

SHEET TITLE
ELECTRIC & GROUNDING
DETAILS

SHEET NUMBER
E-1



ELECTRICAL AND GROUNDING NOTES

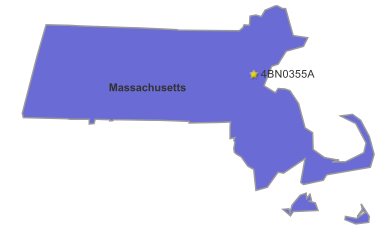
- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED 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 THINSULATION.
- 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

Photographic Simulation Package

Proposed Upgrade to Existing Wireless Telecommunications Facility:

4BN0355A Mount Auburn Hospital
300 Mount Auburn Street
Cambridge, MA 02138



- proposed changes to existing Rooftop Mount Antenna Structure - Revised per CD's V3 3/23/17
- documentation photographs taken 10/19/16

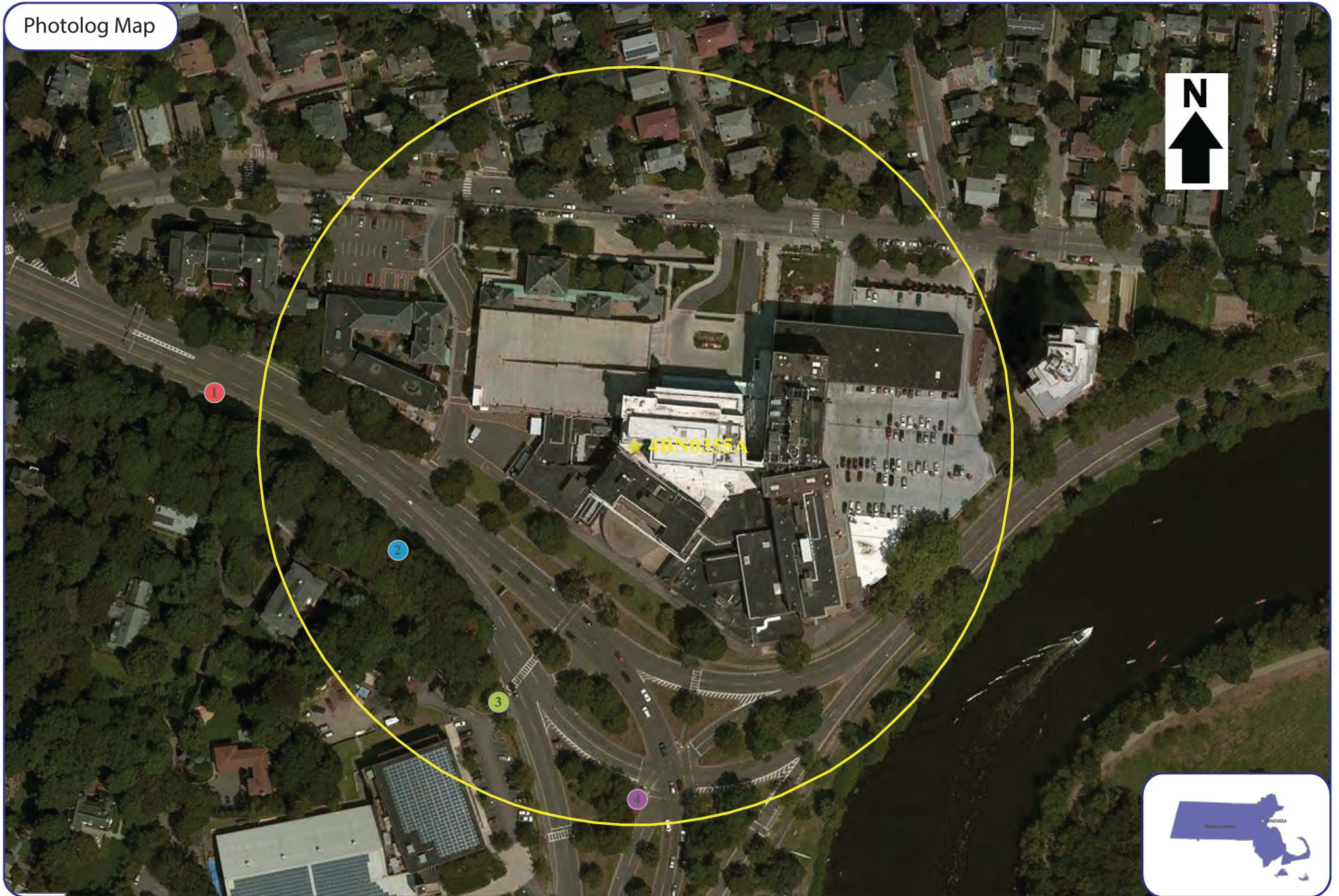
Simulation package prepared by:

Virtual Site Simulations, LLC
28 Caswell Street
Suite 100
Narragansett, Rhode Island 02882

www.VirtualSiteSimulations.com

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





Proposed Upgrade to Existing Wireless Telecommunications Facility:

4BN0355A Mount Auburn Hospital
300 Mount Auburn Street
Cambridge, MA 02238

Legend:




-  Facility Location
-  Photo Documentation location
-  500 Ft Radius

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



Existing



Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
1	Gerrys Landing Rd west	42.37428 -71.13666	+/- 0.11 Miles	East	95.48	Year Round

Site: 4BN0355A Mount Auburn Hospital

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



Simulation



Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
1	Gerrys Landing Rd west	42.37428 -71.13666	+/- 0.11 Miles	East	95.48	Year Round

Site: 4BN0355A Mount Auburn Hospital

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Existing



Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
2	Gerrys Landing Rd Center	42.37371 -71.13576	+/- 0.06 Miles	South East	64.24	Year Round

Site: 4BN0355A Mount Auburn Hospital

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Simulation



Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
2	Gerrys Landing Rd Center	42.37371 -71.13576	+/- 0.06 Miles	South East	64.24	Year Round

Site: 4BN0355A Mount Auburn Hospital

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



Existing



Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
3	Gerrys Landing Rd East	42.37316 -71.13527	+/- 0.07 Miles	South East	30.64	Year Round

Site: 4BN0355A Mount Auburn Hospital

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Simulation



Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
3	Gerrys Landing Rd East	42.37316 -71.13527	+/- 0.07 Miles	South East	30.64	Year Round

Site: 4BN0355A Mount Auburn Hospital

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



Existing



Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
4	Gerrys Landing Rd & Memorial Dr	42.37281 -71.13459	+/- 0.09 Miles	South	350.56	Year Round

Site: 4BN0355A Mount Auburn Hospital

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



Simulation



Photo #	Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
4	Gerrys Landing Rd & Memorial Dr	42.37281 -71.13459	+/- 0.09 Miles	South	350.56	Year Round

Site: 4BN0355A Mount Auburn Hospital

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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

2013 00095568
Bk: 61736 Pg: 286 Doc: DECIS
Page: 1 of 4 05/03/2013 12:16 PM

APR 12 11 11 AM
CITY CLERK
CAMBRIDGE, MASSACHUSETTS

CASE NO: 10400

LOCATION: *OWNER: MT AUBURN HOSPITAL*
300 Mt. Auburn Street Residence C-3 Zone
Cambridge, MA

PETITIONER: T-Mobile Northeast, LLC
C/o Jackie Slaga, Agent for T-Mobile

PETITION: Special Permit: To replace existing 3 antennas with new antennas; addition of 3 additional antennas, 1 per sector adjacent to existing antennas at each location; and replacement of 1 existing cabinet with smaller cabinet mounted to penthouse. 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 & Sec. 4.10 (Footnote 49) (Telecommunication Facility). Art. 10.000, Sec. 10.40 (Special Permit).

DATE OF PUBLIC NOTICE: February 28 & March 7, 2013

6973-373

DATE OF PUBLIC HEARING: March 14, 2013

MEMBERS OF THE BOARD:

CONSTANTINE ALEXANDER – CHAIR
TIMOTHY HUGHES – VICE-CHAIR
BRENDAN SULLIVAN
THOMAS SCOTT
JANET O. GREEN

ASSOCIATE MEMBERS:

MAHMOOD R. FIROUZBAKHT
DOUGLAS MYERS
SLATER W. ANDERSON
LINDSEY T. THORNE-BINGHAM
ANDREA A. HICKEY
KEVIN C. McAVEY

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. 10400
Location: 300 Mount Auburn Street
Petitioner: T-Mobile Northeast, LLC c/o Jackie Slaga

On March 14, 2013, Petitioner's attorney Ricardo Sousa appeared before the Board of Zoning Appeal requesting a special permit in order to replace three existing antennas with new antennas and to add three additional antennas, one per sector adjacent to existing antennas at each location, where all antennas are to be mounted in the same location and painted to match the façade of building, and to replace an existing cabinet with a smaller cabinet mounted to the penthouse. The Petitioner requested relief from Article 4, Sec. 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 three new antennas would simply swap in for three existing antennas and be painted to match the façade of building. He stated that he was withdrawing the request to add three additional antennas. He stated that the site was in a residential zone, but that the neighborhood largely consisted of institutional uses.

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

After discussion, the Chair moved that the Board grant the special permit for relief in order to replace three existing antennas with new antennas mounted in the same location and painted to match the façade of building, and to replace an existing cabinet with a smaller cabinet mounted to the penthouse based on the finding that the site was in a residential district, but that nonresidential uses predominated in the vicinity of the proposed facility's location. The Chair moved that the Board find that the telecommunication facility was not inconsistent with the character that did prevail in the surrounding neighborhood. The Chair moved that the Board find that the Board made the same finding in the previous special permit for the existing installation and that the neighborhood had not changed in any material respect since. The Chair moved that the Board find that although there were residences in one part of the neighborhood, the other part of the neighborhood consisted of the hospital and allied structures or highways. The Chair moved that the Board find that what was proposed would not cause congestion, hazard, or substantial change in the established neighborhood character. The Chair moved that the Board find that the request was simply to replace antenna mounted on the roof of the hospital. The Chair moved that the Board find that the continued operation or development of adjacent uses would not be adversely affected by the nature of the proposed use. The Chair moved that the Board find that no nuisance

or hazard would be created to the detriment of the health, safety, and welfare of the occupant of the proposed use, and that the proposed use would not impair the integrity of the district or adjoining district or otherwise derogate from the intent and purpose of the Ordinance. The Chair moved that the Board find that there were existing antennas mounted on the roof of the structure and that they served a social purpose in terms of facilitating telecommunications. The Chair moved that the Board grant the special permit on the following conditions:

1. that the special permit extend for only 24 months from the date it becomes effective and that upon the 24 months expiration, if the special permit is not renewed or granted in a different form, the work that is being done under this special permit be promptly removed and the structure be restored to its current state, minus the antennas, to the maximum extent possible,
2. that the work proceed in accordance with photo simulations and plans, entitled T1, C1, A2 and S1, submitted by the Petitioner, dated February 27, 2013, the first page of initialed by the Chair,
3. that the new work be maintained to minimize the visual impact to the extent that the wear and tear or weather conditions cause some deterioration in the appearance of these items,
4. that in the event that the antennas are abandoned or not used for a period of six months they be promptly removed and the structure be restored to its original state to the maximum extent possible.

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

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

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

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



Constantine Alexander, Chair

Attest: A true and correct copy of decision filed with the offices of the City Clerk and Planning Board on 4-12-13 by Maria 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: May 3, 2013 Donna P. Lopez INTERIM City Clerk.

7

March 21, 2017

VIA HAND DELIVERY

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

Re: Eligible Facilities Request to Modify Transmission Equipment at an Existing Base Station located at **300 Mount Auburn Street, Cambridge, MA 02238.**

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 300 Mount Auburn Street, Cambridge, MA 02238.

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

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

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

B. Why this Eligible Facilities Request Must Be Granted

This Eligible Facilities Request involves an effort to collocate, remove, modify, or replace Transmission Equipment at an existing Base Station operated by an FCC licensed wireless carrier. The FCC has defined Base Station as “the equipment and non-tower supporting structure at a fixed location that enable Commission-licensed or authorized wireless communications between user equipment and a communications network . . . the term includes equipment associated with wireless communications service including, but not limited to, radio transceivers, antennas, coaxial or fiber-optic cable, regular and backup power supply, and comparable equipment.” The term existing base station also includes a structure that currently houses or supports an antenna, transceiver or other associated equipment that constitutes part of a Base Station at the time the application is filed even if the structure was not built solely or primarily to provide such support. The existing Base Station in this application is approximately sixty two feet (62’) 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 sixty two feet (62’) high. The proposed collocation of six (6) new panel antennas will not increase the height of the Base Station by more than ten feet (10’).
2. *The modifications to the Transmission Equipment do not protrude from the edge of the support structure by more than six (6) feet.*
 - a. The six (6) proposed antennas will not protrude from the edge of the building and therefore will not exceed the six (6) foot limitation.

3. *The modifications to the Transmission Equipment do not involve the installation of more than the standard number of equipment cabinets for the technology involved, not to exceed four.*
 - a. The Applicant does not propose to install any additional equipment cabinets.
4. *The modifications to the Transmission Equipment do not entail any excavation or deployment outside of the Base Station site.*
 - a. There will be no excavation or deployment outside of the Base Station site.
5. *The modifications to the Transmission Equipment do not defeat any existing concealed or stealth-design.*
 - a. Pursuant to the original decision by the Zoning Board of Appeal for the City of Cambridge (the “Board”) for this Facility, dated March 14, 2013 (Case No. 10400) (the “Decision”), attached hereto, the existing antennas are located in the preferred location on the building and comply with the required conditions for a stealth design. The upgrade of this facility with the collocation of six (6) new panel antennas will not defeat the existing stealth design. Four (4) of the new antennas will be concealed within new stealth flue which will be painted to match the existing HVAC behind it and will not be visible to the public. Two (2) additional antennas will be mounted to the façade of the existing stairwell penthouse, on low-profile mounts and will be painted to match the existing penthouse. All proposed antennas and equipment will be integrated into the existing building to the extent possible. As such, the proposed modification will not defeat any existing concealed or stealth design.
6. *The modifications to the Transmission Equipment comply with prior conditions of approval of the Base Station, unless the non-compliance is due to an increase in height, increase in width, addition of equipment cabinets, or new excavation that does not exceed the corresponding “substantial change” thresholds in numbers 1-4.*
 - a. Based on the foregoing, the proposed modifications to the Base Station fully conform to Section 6409(a) of the Spectrum Act and comply with the prior conditions of approval of the Base Station.

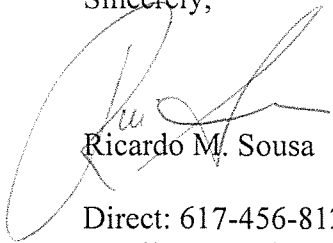
There is a certification attached to the accompanying Eligible Facilities Request that identifies how each of the six review criteria identified by the FCC is met. The modifications to the Transmission Equipment at the Base Station located at 300 Mount Auburn Street, Cambridge, MA 02238 contained in this Eligible Facilities Request fully conform to Section 6409(a) as enacted by Congress and as interpreted by the FCC. Accordingly, this Eligible Facilities Request must be approved within 60 days, as required by federal law and FCC implementing regulations.

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

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

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

Sincerely,



Ricardo M. Sousa

Direct: 617-456-8123

Email: rsousa@princelobel.com

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

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

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

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

Site Address: 300 Mount Auburn Street

Existing Facilities

The Existing Facility is comprised of three (3) 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: 62' (feet)

Height above ground level of the tallest point of the existing base station after the installation of the *proposed* equipment: 69'(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)

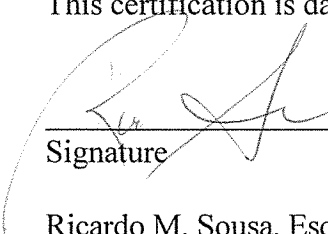
Comment: Pursuant to the original decision by the Zoning Board of Appeal for the City of Cambridge (the “Board”) for this Facility, dated March 14, 2013 (Case No. 10400) (the “Decision”), attached hereto, the existing antennas are located in the preferred location on the building and comply with the required conditions for a stealth design. The upgrade of this facility with the collocation of six (6) new panel antennas will not defeat the existing stealth design. Four (4) of the new antennas will be concealed within new stealth flue which will be painted to match the existing HVAC behind it and will not be visible to the public. Two (2) additional antennas will be mounted to the façade of the existing stairwell penthouse, on low-profile mounts and will be painted to match the existing penthouse. All proposed antennas and equipment will be integrated into the existing building to the extent possible. As such, the proposed modification will not defeat any existing concealed or stealth design.

Question No. 6 (c)

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

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

This certification is dated this 21st day of March, 2017.



Signature

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

Eligible Facilities Request (EFR) Application Form

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

Date of Submittal: _____

Submitted by:

Name: _____

Title: _____

Contact information: _____

Name of Jurisdiction: _____

Address of Jurisdiction: _____

Contact Name for Jurisdiction: _____

Name of Local Government Permit Application: _____

Local Government File #: _____

Street Address of Site: _____

Tax Parcel # of Site: _____

Latitude/Longitude of Site: _____

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

List Each Piece of Transmission Equipment that will be Removed:

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

List Cabinets that will be Removed at the Site:

Permit Application Deposit Amount: _____

Municipal Consultant Review Fee Deposit (if applicable): _____



INSPECTIONAL SERVICES DEPARTMENT

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

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

Ranjit Singanayagam - Commissioner

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

Building Address	300 Mount Auburn Street, Cambridge, MA		
Building Owner	Mount Auburn Hospital	Phone #	617-499-5558
Owner Address	330 Mount Auburn Street, Cambridge, MA 02138		
Contractor	HPC Wireless Services	Phone #	401-301-3396
Contractor Address	6 Avenue E., Hopkinton, MA 01748		
Architect/Engineer	Chappell Engineering Associates, LLC	Phone #	508-481-7400
Address	201 Boston Post Road West, Suite 201, Marlborough, MA 01752		

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

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

Current Use Wireless Communication Proposed Use No Change
 For Residential Use: Current number of dwelling units N/A Proposed number of dwelling units N/A
 Building Construction type:
 Non-Combustible (Type I/II) Masonry/Wood (III) Wood (IV,V)
 Building Equipped with : Sprinkler System: Yes / No Fire Alarm: Yes / No Smoke Detection: Yes / No
 Provide a description of the building: Hospital building with wireless equipment on rooftop

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).
 Install (3) antennas and (3) remote radio units on rooftop

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

ESTIMATED COST OF CONSTRUCTION:

Building	\$45,000	HVAC	
Electric		Sprinklers	
Plumbing/Gas		Fire Detection	
Gas Fitting		Fire Suppression	

Total Estimated Cost of Construction \$45,000

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

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

Current Use Wireless Proposed Use No Change Zone Res. C-3 BZA/PB Case # 10400

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

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

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

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

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

The proposed project is subject to Stretch Code and/or IECC provisions and documentation indicating compliance has been included with this application.

The proposed work involves changes to the building lighting system and a Lighting Power Density Report has been included with this application.

The proposed work does not access or affect the building energy envelop.

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

Fire Protection:

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

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

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

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

Noise Ordinance Affidavit

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

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

Name Nona Crevier Title Project Mgr

Signature [Signature] Registration/License # 1081527

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

CONSTRUCTION SERVICES (REQUIRED)

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

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

Name David A. Chappell Phone # 508-481-7400
Firm Chappell Engineering Associates, LLC Cell Phone# 617-803-2387
Address 201 Boston Post Road West, Suite 101, Marlborough, MA 01752
MA Registration Number 34706 Email Address: dchappell@chappellengineering.com


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

Structural Peer Review (MSBC 780 CMR 105.9 Amended):

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

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

Licensed Construction Supervisor

Name Nova Crevier Phone # 401-301-3396
Address 6 Avenue E., Hopkinton, MA 01748 Cell Phone # 401-301-3396
License Number CS-107527 Expiration Date 6/9/2017 Class CS
Signature  Date 10/19/16
Email Address ncrevier@hpcwireless.com

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

Name N/A Phone # _____
Address _____ Cell Phone # _____
Registration Number _____ Expiration Date _____
Signature _____ Date _____

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

Name Mount Auburn Hospital Phone # 617-499-5558
Address 330 Mount Auburn Street, Cambridge, MA 02138
Signature See Letter of Authorization Date _____
Email Address mletzeis@mah.harvard.edu

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 ___ 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 N/A No debris created

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

Signature [Signature] Date 10/19/10

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 the 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-088260**
Construction Supervisor

JOHN J KEAVENEY
6 CALAVERDI COURT
SIMPSONVILLE SC 29681




Commissioner

Expiration:
01/15/2018

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The Commonwealth of Massachusetts
 Department of Industrial Accidents
 1 Congress Street, Suite 100
 Boston, MA 02114-2017
 www.mass.gov/dia

Workers' Compensation Insurance Affidavit: General Businesses.
 TO BE FILED WITH THE PERMITTING AUTHORITY.

Applicant Information

Please Print Legibly

Business/Organization Name: HPC Wireless Services, LLC

Address: 22 Shelter Rock Lane, Building C

City/State/Zip: Danbury, CT, 06810 Phone #: 203-797-1112

Are you an employer? Check the appropriate box:

- 1. I am an employer with 55 employees (full and/ or part-time).*
- 2. I am a sole proprietor or partnership and have no employees working for me in any capacity. [No workers' comp. insurance required]
- 3. We are a corporation and its officers have exercised their right of exemption per c. 152, §1(4), and we have no employees. [No workers' comp. insurance required]**
- 4. We are a non-profit organization, staffed by volunteers, with no employees. [No workers' comp. insurance req.]

Business Type (required):

- 5. Retail
- 6. Restaurant/Bar/Eating Establishment
- 7. Office and/or Sales (incl. real estate, auto, etc.)
- 8. Non-profit
- 9. Entertainment
- 10. Manufacturing
- 11. Health Care
- 12. Other Telecommunications

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

**If the corporate officers have exempted themselves, but the corporation has other employees, a workers' compensation policy is required and such an organization should check box #1.

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

Insurance Company Name: Zurich American Insurance Company

Insurer's Address: 3 Executive Park Drive, Suite 300

City/State/Zip: Bedford, NH, 03110

Policy # or Self-ins. Lic. # 552553804 Expiration Date: 7/6/2017

Attach a copy of the workers' compensation policy declaration page (showing the policy number and expiration date).

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

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

Signature: *Joe Larnach* Date: 7/6/2016

Phone #: 203-797-1112

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

City or Town: _____ Permit/License # _____

Issuing Authority (circle one):

1. Board of Health 2. Building Department 3. City/Town Clerk 4. Licensing Board 5. Selectmen's Office

6. Other _____

Contact Person: _____ Phone #: _____