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APPLICATION FOR

ZONING BOARD OF APPEALS

No. 3020

Filed 6/28/2024

Hearing 7/24/2024

Applicant New Cingular Wireless PCS, LLC (AT&T) Address c/o Brown Rudnick LLP, One Financial Center, Boston, MA 02111 Attention Edward D. Pare, Jr.

Phone Number (401) 481-6574 Email Address epare@brownrudnick.com

Owner Casella Waste Management of Massachusetts, Inc. Address 25 Greens Hill Lane, Rutland, VT 05701
(If Not Applicant)

NOTICE: This application must either be typewritten or written in a clear, legible hand. Submit four (4) copies of the application to the City Clerk, along with copies of the plans, specifications, and information called for by the zoning ordinance, together with a copy of any refusal of the building inspector to issue the building permit or certificate of occupancy. Include a filing fee of **$200 for Special Permits & Variances, or for Sign Appeals, payable to the City of Pittsfield**. An additional fee is required in order to post the public notice in a local newspaper. Applications regarding Commercial, Industrial, or Residential projects not including one-family, two-family, or three-family dwellings are responsible for the cost of notices to abutters within 500 feet of the subject property via USPS Certified Mail. These additional fees must be collected before an application can be considered complete.

Special Permit from the requirements of Article 23-4 Section 4.322(D) of the Zoning Ordinance; or

Variance from the requirements of Article 23-4 Section 4.322(M)(c)(2)(ii)(2) of the Zoning Ordinance; or

Exception from the requirements of Article Section _____ of the Sign Ordinance.

X 1. Appeal is hereby made from the decision of the Building Inspector refusing a building or sign permit, the applicant contending that the proposed sign, construction, alteration or use is in conformity with the provisions of the Zoning Ordinance

_____ 2. Appeal is hereby made from the decision of the Building Inspector refusing a Certificate of Occupancy, the applicant contending that the structure or proposed use is in conformity with the provisions of the Zoning Ordinance

NOTICE – Mark with an X in the square opposite one of the above paragraphs under which the applicant proposes to bring the matter to the attention of the Board.

1. The premises affected are situated at 500 Hubbard Avenue

, Pittsfield, Mass. on the North and East side of the street,

distant about 48 feet from the corner formed by the intersection of Berkshire Crossing Drive

and Hubbard Avenue. Assessor's Map # M14 Block Lot 1008.

They are in the I-G Zoning District.

2. A short description of the proposed sign, construction, alteration or use is as follows:

Install a 111' multi-carrier, above ground level monopole-style tower and collocate twelve (12) antennas (four (4) antennas per sector) at the 107' antenna centerline height, together with related remote radio heads, surge arrestors, cables, fiber and other associated equipment connected to AT&T's electronic equipment located in a walk-in cabinet on a concrete pad with a propane fueled backup power generator with propane tank, all within the proposed fenced compound with associated utilities (the "Facility") ae depicted on the plans submitted.

3. The principal points on which the application or appeal is based are as follows:

Special Permit and Variances to install, operate and maintain the Facility pursuant to Article 23-4, Section 4.322(D) Entitled Use Table of the City of Pittsfield Zoning Ordinance (the "Ordinance"); Site Plan Review pursuant to Article 23-4, Section 4.322(M); and, such variances as may be required, including, without limitation, a variance from the terms of Article 23-4, Section 4.322(M)(c)(2)(ii)(2) setbacks to property lines, to the extent applicable, pursuant to Article 23-11, Sections 11.3 and 11.4 of the Ordinance, Chapter 40A of the Massachusetts General Laws and the Telecommunications Act of 1996 (the "TCA"), and such other relief as deemed necessary, all rights reserved.

/s/Edward D. Pare, Jr.

Applicant signs here

Please refer to the Letter of Authorization submitted herewith.

Owner signs here

ATTACHMENTS

1. Application Form
2. Letter of Authorization
3. FCC License(s)
4. Plans and Foundation Design
5. Certified Abutters List
6. Airspace Report
7. Structural Analysis
8. Photo Simulations
9. MPE Study
10. RF Report and Coverage Maps
11. Sound Study
12. Removal Bond with Estimated Removal Cost
13. Statement of Compliance

brownrudnick

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June 25, 2024

City of Pittsfield
Zoning Board of Appeals
c/o Michele M. Benjamin
City Clerk
70 Allen Street
Pittsfield, MA 01201

RE:	Special Permit and Variance – Nonconcealed Wireless Communications Tower (the "Application") – Permanent Replacement Wireless Facility
Applicant:	New Cingular Wireless PCS, LLC d/b/a AT&T ("AT&T")
Site:	500 Hubbard Avenue, Pittsfield, MA (Assessor's Parcel ID: M140001008); Deed Book 3164, Page 39 (the "Site")
Owner:	Casella Waste Management of Massachusetts
Facility:	Install a 111' above ground level (hereafter "AGL") monopole-style tower with a 4' lightning rod for a total AGL height of 115' (the "Monopole") and collocate panel antennas at the 107' AGL antenna centerline height, together with related amplifiers, cables, fiber and other associated antenna equipment, including, without limitation, remote radio heads and surge arrestors connected to AT&T's equipment cabinets and backup power generator all within the proposed fenced compound with associated utilities (the "Facility") all as depicted on the plans (the "Plans") submitted with the Application.
Relief Requested:	Special Use Permit and Variance to install the Facility pursuant to Section 4.322 of the City of Pittsfield Zoning Ordinance (the "Ordinance"); such variances as may be required, including, without limitation, a variance from the terms of Section 4.322(M)(c)(ii)(2) setbacks to property lines pursuant to Sections 11.3 and 11.4 of the Ordinance, Chapter 40A of the Massachusetts General Laws and the Telecommunications Act of 1996 (the "TCA"), and such other relief as deemed necessary, all rights reserved.

Dear Honorable Members of the City of Pittsfield Zoning Board of Appeals:

On behalf of AT&T and while reserving all rights, we are pleased to submit this legal analysis to the City of Pittsfield Zoning Board of Appeals (the "Board") in support of AT&T's Application for the installation of the Monopole at the Site, all in accordance with the TCA and the Ordinance. As will be demonstrated herein and by AT&T at the public hearing(s) before the

Board, AT&T's Facility will comply with the Ordinance to the extent possible. The following provides background information regarding the Facility and addresses each applicable section of the Ordinance.

BACKGROUND

The Site is located within the General Industrial (I-G) zoning district. As you may recall, AT&T had antennas on an existing smokestack on the Site with associated ground equipment located within a fenced area. Due to a major redevelopment of the Site by the Owner, the smokestack was demolished. In order to maintain wireless coverage in the area, AT&T proposed, and the Board approved a temporary facility at the Site while the redevelopment of the Site takes place. AT&T continues to collaborate with the Owner of the Site during redevelopment and reached an agreement for the location of the permanent Facility. In light of the redevelopment plans for the Site, AT&T has separately requested that the Board extend the timeframe for the temporary wireless facility. This Application seeks the Board's approval for the permanent Facility. Of course, upon commencement of operations at the Facility, AT&T will remove the existing temporary wireless facility.

The Facility is shown in detail on the Plans submitted with the Application. The Owner of the Site leases a portion of the Site to AT&T. AT&T operates a nationwide wireless communications system that offers enhanced features such as caller ID, voice mail, e-mail, superior call clarity and high-speed data services. AT&T is authorized to provide wireless services through licenses issued by the Federal Communications Commission (the "FCC"). The Facility is critical to maintaining reliable and cutting-edge wireless communication services in and around the City of Pittsfield but especially in the area around the Site.

As will be demonstrated through the written and oral evidence at the public hearing(s) in connection with the Application, the Facility meets with all applicable requirements of the Ordinance to the extent possible while allowing for redevelopment of the Site. AT&T submits that the Facility will aid in public safety by maintaining wireless communications services to the residents, businesses, commuters, and emergency personnel utilizing wireless communications in the immediate vicinity and along the nearby roads. These services further the public interest of health and safety as they will maintain wireless 911 services to the community and communication services for the public. According to published reports, 80% of all calls received by the 911 centers nationwide annually are made from mobile handheld devices in the United States. Today, wireless infrastructure is required to assist with public safety needs.

As noted in the past, AT&T's existing wireless facility handles the following wireless traffic in 2022:

477,000 voice calls per month;

422 emergency 911 calls over a six-month period through April 2022;

89,000 unique customer devices connections; and,

29.1 terabytes of data per month (equivalent to approximately 27,000 one-hour Zoom calls).

The existing site serves a 1-3.8-mile radius: including Routes 8 and 9, Dalton Avenue, Main Street, Cheshire Road, Merrill Road, Hubbard Avenue, Dalton Division Road, East Street, South Street, Crane Avenue, Grange Hall Road, Benedict Road, Berkshire Crossing, the Allendale Shopping Center, the Dalton Avenue Plaza Shopping Center, schools, businesses, retail stores, restaurants and residences throughout the area. AT&T also provides first responders with the proprietary FirstNet communication network which includes the City of Pittsfield Fire Department.

The Facility will not generate any additional noise, odor, fumes, glare, smoke, or dust or require additional lighting or signage. The Facility will have no negative impact on property values in the area. No increase in traffic or hindrance to pedestrian movements will result from the Facility. On average, only one or two round trip visits per month are required to service and maintain the Facility which is already taking place to service AT&T's existing temporary facility on the Site. This is an unmanned facility and will have no negative effects on the adjoining lots. The Facility will comply with all applicable code requirements. The Facility will comply with the maximum permissible levels using conservative methods and parameters and is calculated to be only 10.25% of the FCC limit. The Facility does not require police or fire protection because the installation has its own monitoring equipment that can detect malfunction and/or tampering. The Facility will be effectively relocated from the existing temporary facility to allow for the uninterrupted redevelopment of the Site. The temporary wireless facility will be removed upon the commencement of operations from the Facility. The property abutting the area where the Monopole will be located significantly drops off in topography, is undeveloped and is commercial/industrial with the river nearby.

SECTION 4.322 OF THE ORDINANCE

A. Purpose. The Zoning Board of Appeals, together with the Community Development Board (hereafter "Board") finds that it is necessary and beneficial for the health, safety and welfare of the community to update the regulations for development of Wireless Communications Facilities ("Facilities") in the City for the purposes articulated in the Siting and Design Guidelines for Wireless Communications Facilities adopted by the Zoning Board of Appeals (the "Guidelines");

AT&T's proposed Facility will be in harmony with the purposes of the Ordinance because the Facility will be a permanent solution in light of the demolition of the smokestack and wireless facility as part of the major redevelopment of the Site. The Site is industrial in nature and the Facility will have little impact on the area. The Facility will allow AT&T to maintain critical wireless services in Pittsfield. The Facility is an

effective relocation of the existing wireless facility on the same Site to allow for ongoing wireless coverage in the area.

B. Wireless Communications Facilities. This Section 4.322, together with the Guidelines, establishes standards and requirements for the locating of Wireless Communications Facilities. All capitalized terms used herein are defined in the Guidelines. Reference to the Guidelines should be made for application processes and development standards.

AT&T acknowledges this provision of the Ordinance.

C. Permit Required; Exemptions.

1. No Wireless Communications Facility shall be altered, added to, installed, constructed, or permitted unless the applicant has shown compliance with all the requirements of this section and the Guidelines. The requirements of Section 4.322 apply to all Wireless Communications Facilities, whether Concealed or not, whether aboveground or underground, including but not limited to existing Towers, proposed Towers, public Towers, Replacement of Towers, Ancillary Structures and equipment, Colocation on existing Towers, Base Stations, temporary Personal Wireless Service Facilities (PWSF), PWSF facilities, Distributed Antenna Systems (DAS) facilities, Small Wireless Facility sites and/or networks, and broadcast Towers, except that the following are exempt and no permit is required:

a. An Amateur Radio Tower less than 70 feet in height that is used exclusively for noncommercial purposes and which may not be used to collocate commercial Wireless Services;

b. A government-owned Wireless Communications Facility erected for a state of emergency officially declared by a federal, state, or local government and where the Mayor or designee has made a written determination of public necessity for the facility, and only during the duration of the state of emergency;

c. A government-owned public safety facility;

d. Over-the-air reception devices (OTARD), including Satellite Earth Stations, so long as the device does not require construction of a Tower or other structure exceeding 12 feet above the home or building and the device is no more than one meter in diameter in a residential zone or two meters in any other zone district.

AT&T proposes a Facility as a replacement of its existing temporary wireless facility which replaced the wireless facility mounted to the smokestack which was removed as a part of the redevelopment of the Site.

2. **Wireless Communication Facilities shall be located in accordance with the Use Table in Section D. One or more of several types of permits may be required for a given facility or group of facilities.**

   To the extent required, all rights reserved, AT&T proposed replacement Facility will require a Special Permit and a variance from the Board, as well as Site Plan Review by the Community Development Board.

D. Use Table

Pursuant to the use Table, a non-concealed new tower in the I-G Zoning District requires a Special Permit from the Zoning Board of Appeals; AT&T hereby respectfully submits this application for a Special Permit.

E. Siting Preferences For New Wireless Communications Facilities.

1. **Siting of new PWSF of any type shall be in accordance with the Siting Preferences below and with the Use Table in Subsection D. Where a lower ranked alterative is proposed, the applicant must demonstrate through relevant information including, but not limited to, an affidavit by a radio frequency engineer demonstrating that despite diligent efforts to adhere to the established hierarchy within the geographic search area, higher ranked options are not technically feasible, practical or justified given the location of the proposed facilities, by clear and convincing evidence. The applicant must provide such evidence in its application in order for the application to be considered complete.**

   The Siting Preferences are, in order:

   a. **Dual Purpose Facility.**

   b. **Replacement of existing Wireless Communications Facility in any zoning district.**

   c. **Concealed antenna(s) on a base station.**

   d. **Concealed Small Wireless Facility site.**

   e. **Distributed Antenna System (DAS) facility. 1) Attached. i. Concealed on City-owned property, right-of-way, or public easement. ii.**

Concealed on other public property. iii. Concealed on nonpublic property. iv. Nonconcealed on City-owned property, right-of-way, or public easement. v. Nonconcealed on other public property. vi. Nonconcealed on non-public property.

2. New Freestanding DAS Facility.

i. Concealed on City-owned property, right-of-way, or public easement.

ii. Concealed on other public property.

iii. Concealed on nonpublic property.

iv. Nonconcealed on City-owned property, right-of-way, or public easement.

v. Nonconcealed on other public property.

vi. Nonconcealed on nonpublic property.

f. Nonconcealed Small Wireless Facility site.

g. Nonconcealed Antenna(s) on a Base Station.

i. On City-owned property in any nonresidential zoning district.

ii. On other public property in any nonresidential zoning district.

iii. On nonpublic property in any Business Zone.

iv. In other zone districts in accordance with the Use Table in Section D.

h. Co-location or combined PWSF.

i. Concealed freestanding towers.

i. On City-owned property in any nonresidential zoning district.

ii. On other public property in any non-residential zoning district.

iii. On nonpublic property in any Business Zone or other zone districts, in accordance with the Use Table in Section D.

j. Preferred concealment type shall be determined by the Community Development Board or Zoning Board of Appeals as applicable and shall be dependent upon the location and geography of each proposed facility, but may include, but is not limited to, a "faux" tree, church steeple, building parapet, bell, clock tower or other existing type of structure which ordinarily has a different purpose or use.

k. Nonconcealed towers

i. On City-owned property in any nonresidential zoning district.

ii. On other public property in any nonresidential zoning district.

iii. On nonpublic property in any Business Zone.

l. Preferred tower type (wherever located).

i. Monopole.

ii. Lattice.

iii. Guyed.

2. Broadcast towers are not subject to the siting preferences; they may be sited in accordance with the Use Table (Section 4.322D) and pursuant to the development standards contained in the Guidelines.

AT&T's proposed replacement Facility qualifies as preference E(1)(K)(iii), nonconcealed towers on nonpublic property.

F. No Interference with Public Safety Communications.

a. Applicants shall, regardless of the type of facility, comply with "Good Engineering Practices" as defined by Federal Communications Commission (FCC) regulations and shall provide a composite analysis of all users of the site to determine that the proposed facilities will not cause radio frequency interference with any governmental public safety communications and shall implement appropriate technical measures to prevent such interference.

b. When the City notifies a wireless service provider that it believes the provider's Antenna(s) or Array(s) are creating such interference, the

provider shall investigate and mitigate the interference, if any, utilizing the procedures set forth in the joint wireless industry-public safety "Enhanced Best Practices Guide," released by the FCC in Appendix D of FCC 04-168 (released August 6, 2004), including the "Good Engineering Practices," as may be amended or revised by the FCC from time to time in any successor regulations.

c. If the provider fails to comply with this Subsection F, including but not limited to by initiating an appropriate response within 24 hours of the City's notification, the provider and the property owner shall be jointly and severally responsible for reimbursing the City for all costs associated with ascertaining and resolving the interference.

AT&T's Facility will not cause interference in accordance with these provisions of this Section of the Ordinance. See attached Statement of Compliance from AT&T.

G. PWSF Specifications and Requirements. Development Standards. Temporary PWSF shall require a zoning permit in those zone districts specified in the Use Table in Section 4.322D where all of the following are met:

Not applicable for this Application. However, AT&T will remove the existing temporary wireless facility on the Site upon commencement of operations of the Facility.

H. Wireless Communications Facility, Co-Location and Combination.

Development Standards. The Board requires co-location and combining of Wireless Communications Facilities on existing Towers, existing Base Stations or existing Dual Purpose Facilities as a highest priority where such co-location is possible. A zoning permit shall be required for co-location of facilities on an existing Tower, existing Base Station or Dual Purpose Facility. Co-location or combination of Wireless Communications Facilities requires a zoning permit, and is subject to the following:

AT&T's Facility is a replacement of its existing temporary wireless facility which was a replacement to the wireless facility on the smokestack at Site. As AT&T's Facility does not entail a new colocation upon an existing structure, this provision of the Ordinance does not apply to this Application.

I. New Base Stations: Concealed and Nonconcealed. Antennas and equipment may be mounted onto a structure which is not primarily constructed for

telecommunications purposes in accordance with the Use Table of Section 4.322D. A site plan review is required for base station antennas and equipment mounted onto such an alternative structure. In residential districts, the following structures shall not be used as Base Stations or to support PWSF or commercial antenna(s): single-family dwelling, two-family dwelling, multifamily dwelling of fewer than three stories in height, group living facility, or day care.

AT&T's Facility will be a replacement of its existing temporary wireless facility which was a replacement to the wireless facility on the smokestack at Site. As AT&T's Facility does not entail a new colocation upon an existing structure, this provision of the Ordinance does not apply to this Application.

J. Antenna Element Replacement or Modification.

Development Standards. A zoning permit is required for any Replacement or modification of existing antenna(s) and associated equipment, and the replacement or modification must comply with the following:

AT&T's Facility will be a replacement of its existing temporary wireless facility which was a replacement to the wireless facility on the smokestack at Site. As AT&T's Facility does not entail a new colocation upon an existing structure, this provision of the Ordinance does not apply to this Application.

K. Tower / Dual Purpose Facility Replacement. A site plan review is required for Replacement of a Tower and Dual -Purpose Facility. Applicant must demonstrate by clear and convincing competent evidence that Replacement will accomplish at least one of the following:

This provision of the Ordinance does not apply to this Application.

L. DAS and Concealed Small Wireless Facilities

This provision of the Ordinance does not apply to this Application.

M. Concealed and Nonconcealed Wireless Communications Towers (not including DAS or Broadcast Tower, which are addressed in other subsections).

a. A special permit and site plan review shall be required for a new Wireless Communications Tower.

AT&T submits this Application pursuant to this provision of the Ordinance. AT&T has also submitted Plans to the Community Development Board for a Site Plan Review.

b. No new Tower shall be permitted unless the applicant demonstrates that no Existing Tower or Dual Purpose Facility can accommodate the applicant's proposed use, or that Co-location on such existing facilities would have the effect of prohibiting personal Wireless Services in the geographic search area to be served by the proposed Tower.

There are no existing towers or dual-purpose facilities which can accommodate AT&T's proposed use. The proposed Monopole is a replacement of the temporary wireless facility which replaced a smokestack supporting AT&T's previous wireless facility.

c. Development Standards.

i. Height.

1. New Concealed Towers shall be limited to 135 feet in height. Height calculations shall be made in accordance with FAA standards and shall include all appurtenances.

2. New Nonconcealed (nonbroadcast) Towers shall be limited to 115 feet in height.

AT&T's Monopole will be 115' AGL in total height which complies with this provision of the Ordinance.

ii. Setbacks. A new Concealed Tower shall be subject to the setbacks described below for breakpoint technology:

1. If the Concealed Tower has been constructed using Breakpoint Design Technology (see Definitions in Guidelines), the minimum setback distance shall be equal to 110% of the distance from the top of the structure to the breakpoint level of the structure, or the minimum side and rear yard requirements, whichever is greater. Certification by a registered professional engineer licensed by the Commonwealth of Massachusetts of the breakpoint design and the design's fall radius must be provided together with the other information required herein from an applicant. [For example, on a 100-foot-tall monopole with a breakpoint at 80

feet, the minimum setback distance would be 22 feet (110% of 20 feet, the distance from the top of the monopole to the breakpoint) plus the minimum side or rear yard setback requirements for that zoning district.]

2. If the concealed tower is not constructed using breakpoint design technology, the minimum setback distance shall be equal to the height of the proposed tower.

AT&T's proposed replacement Monopole will not be a concealed tower and this provision of the Ordinance does not apply to this Application. However, to the extent necessary, all rights reserved, AT&T requests a variance from the provisions of this section of the Ordinance from the setback requirement of 115'. The proposed setback is 5' from the property line but the Monopole is designed in accordance with the building code relating to tower structures and is near land which is not developed.

iii. Equipment Cabinets and Equipment Shelters. Electronic equipment shall be contained in either (a) Equipment Cabinets or (b) Equipment Shelters. Equipment Cabinets shall not be visible from pedestrian and right-of-way views. Equipment Cabinets may be provided within the principal building on the lot, behind a screen on a rooftop, or on the ground within the fenced-in and screened equipment compound.

There will be no little change to AT&T's existing equipment cabinet. The equipment cabinet will be located within a fenced compound area, similar to the existing facility as noted on the Plans.

iv. Fencing. All Equipment Compounds shall be enclosed with an opaque fence or masonry wall in residential zoning districts and in any zoning district when the equipment compound adjoins a public right-of-way. Alternative equivalent screening as described in Subsection v5 below may be approved through the site plan approval process.

AT&T proposes a fence compound similar to the existing fenced compound area.

v. Buffers. The equipment compound shall be landscaped with a minimum ten-foot-wide perimeter buffer containing the following planting standards:

1. **All plants and trees shall be indigenous to western Massachusetts.**

2. **Existing trees and shrubs on the site should be preserved and may be used in lieu of required landscaping as approved by the Building Inspector.**

3. **One row of evergreen trees with a minimum two-inch caliper, twenty-five feet on center.**

4. **Evergreen shrubs capable of creating a continuous hedge and obtaining a height of at least five feet shall be planted, minimum three gallons or 24 inches tall at the time of planting, five feet on center.**

5. **Alternative landscaping plans which provide for the same average canopy and understory trees but propose alternative locating on the entire subject property may be considered and approved by the Building Inspector, provided the proposed alternative maximizes screening as provided above and is otherwise consistent with the requirements of this section.**

There will be little change to the equipment area. Also, there is little room for any landscaping. The equipment is well screen from view and is located within a partially wooded area of the parcel.

vi. Signage. Commercial messages shall not be displayed on any Concealed Tower. Required noncommercial signage shall be subject to the following:

1. **The only signage that is permitted upon a Concealed Tower, Equipment Cabinets, Shelters, or fence shall be informational, and for the purpose of identifying the tower (such as ASR registration number), as well as the party responsible for the operation and maintenance of the facility, and any additional security and/or safety signs as applicable.**

2. **If more than 220 voltage is necessary for the operation of the facility and is present in a ground grid or in the Tower, signs located every 20 feet and attached to the fence or wall shall display in large, bold, high-contrast letters, minimum height of each letter four inches, the following: "HIGH VOLTAGE - DANGER."**

3. Nameplate signage shall be provided, in an easily visible location, including the address and telephone number of the contact to reach in the event of an emergency or equipment malfunction, including property manager signs as applicable.

AT&T's Facility will comply with this provision of the Ordinance.

vii. Lighting. Lighting on Concealed Towers shall not exceed the Federal Aviation Administration (FAA) minimum standards. All other lighting shall be subject to the following.

1. Any lighting required by the FAA must be of the minimum intensity and number of flashes per minute (i.e., the longest duration between flashes) allowable by the FAA. Dual lighting standards are required with strobe during daytime and red flashing lights at night unless prohibited by the FAA.

2. Lights shall be filtered or oriented so as not to project directly onto surrounding property or rights-of-way, consistent with FAA requirements.

AT&T does not propose a concealed tower. However, as evidenced by the attached Federal Airways & Airspace report, notice to the FAA is not required. The total height of the Monopole is 115' AGL, the same height as the existing temporary monopole and the previous smokestack. No additional lighting will be installed as a result of AT&T's Facility.

viii. Equipment Compound. The fenced-in compounds shall not be used for the storage of any excess equipment or hazardous materials. No outdoor storage yards shall be allowed in a tower equipment compound. The compound shall not be used as habitable space.

AT&T will comply with this provision of the Ordinance.

ix. Structural Standards. All new concealed or nonconcealed PWSF towers on public property shall be constructed and maintained to meet ANSI/EIA/TIA Class III, Exposure C structural standards.

AT&T's Monopole will not be located on public property, so this provision does not apply to this Application.

x. Visibility.

1. Concealed:

a) New Concealed Towers shall be designed to match adjacent structures and landscapes with specific design considerations such as architectural designs, height, scale, color, and texture.

b) New Antenna mounts shall be concealed and match the Concealed Tower.

c) In residential zoning districts and in mixed-use zoning districts that include residential uses, new Concealed Towers shall not be permitted on lots where the primary use or principal structure is single family or two-family residential, group living, day care, or a multifamily structure of fewer than three stories. Examples of land uses/structure types in residential areas where the site may include a Concealed Tower are: school, religious assembly, fire station, hospital, or other similar institutional / civic uses/structures.

AT&T does not propose a concealed facility, so this provision of the Ordinance does not apply to this Application.

2. Nonconcealed: New Antenna mounts shall be flush-mounted unless it is demonstrated through RF propagation analysis that flush-mounted Antennas will not meet the network objectives of the desired coverage area.

The Monopole is a replacement of the existing temporary monopole which was a replacement for the smokestack on the Site which was removed as part of a major redevelopment of the property. The design of the Facility with required antenna separation is necessary for AT&T to continue to provide adequate coverage to this area of Pittsfield.

3. Concealed and Nonconcealed:

a) New Concealed and Non-concealed Towers shall be configured and located in a manner that shall minimize adverse effects including visual impacts on the landscape and adjacent properties.

The Monopole will be located in a partially wooded area close to the existing temporary monopole. As the

temporary wireless facility will be removed upon commencement of operation from the Facility, there will be just one 115' structure at that location in the IG zoning district so there will be no material change in the nature of existing and previous visual impacts.

b) **A balloon test shall be required subsequent to the receipt of the photo simulations in order to demonstrate the proposed height and concealment solution of the PWSF. The applicant shall arrange to raise a red or orange colored balloon no less than three feet in diameter at the maximum height of the proposed tower, and within 25 horizontal feet of the center of the proposed tower. The applicant shall meet the following for the balloon test:**

• Applicant must inform the Building Inspector, City Planner, and abutting property owners in writing of the date and times, including alternative date and times, of the test at least 14 days in advance.

• A three-foot-by-five-foot sign with lettering no less than three inches high stating the purpose of the balloon test shall be placed at closest major intersection of proposed site.

• The date, time, and location, including alternative date, time, and location, of the balloon test shall be advertised in a locally distributed paper by the applicant at least seven but no more than 14 days in advance of the test date.

• The balloon shall be flown for at least four consecutive hours during daylight hours on the date chosen. The applicant shall record the weather, including wind speed, during the balloon test.

• Readvertisement will not be required if inclement weather occurs.

AT&T will comply with this provision of the Ordinance as directed by the Board. We note that the existing wireless facility provides a valid representation of the Facility.

AT&T has submitted photographs of photosimulations representative of the visual impact of the Facility which we hope the Board agrees is sufficient for purposes of this provision of the Ordinance and doesn't require another balloon test. However, AT&T will work cooperatively with the Board.

c) **All macro towers shall be constructed structurally to accommodate no fewer than four Antenna**

AT&T's Monopole is a structure that will allow AT&T to continue to provide adequate coverage to this area of Pittsfield. As noted on the elevation, the Monopole will be capable of providing colocation opportunities for four antenna arrays.

d) **Grading shall be minimized and limited only to the area necessary for the new Tower and Equipment Compound.**

AT&T will comply with this provision of the Ordinance.

e) **Sounds. No unusual sound emissions such as alarms, bells, buzzers, or the like are permitted. Emergency generators are allowed. Sound levels shall not exceed 0.65 db as measured at the property boundaries.**

AT&T's Facility will comply with this provision of the Ordinance. Please refer to the Sound Study submitted herewith.

SECTION 13.2 OF THE ORDINANCE

SECTION 13.204

FINDINGS REQUIRED

Before granting a Special Permit for any use requiring such Permit under the provisions of this ordinance, the Special Permit Granting Authority shall find that the proposed use:

A. Is in compliance with all applicable provisions and requirements of the ordinance and in harmony with its general intent and purpose.

AT&T's proposed Facility complies with all applicable provisions and requirements of the Ordinance, except for the relief requested. The Facility is in harmony with the purposes of the Ordinance because the Facility will allow AT&T to continue to provide wireless services in the area around the Site. The temporary wireless facility will be removed upon commencement of operations from the Facility. The Facility is an effective relocation of the previously wireless facility on the Site which will serve the public health and safety by maintaining ongoing wireless communications. The Monopole is the same height but much slimmer than the existing smokestack which previously hosted AT&T's existing wireless facility.

B. Will not be detrimental or can be conditioned so as not to be detrimental to adjacent uses or to the established character of the neighborhood.

AT&T's Monopole will not be detrimental to adjacent uses or the established character of the neighborhood because the Monopole will replace the previous smokestack on the Site. The neighborhood already had a tall and bulky structure supporting wireless communications antennas on this Site. The Facility will be passive in nature and will not generate unreasonable noise, odor, smoke, waste, glare, or traffic. The Site is located in a commercial/industrial area with ongoing operations as a transfer station. The Facility is an effective relocation of the previous wireless facility on the Site to serve the public health and safety by maintaining ongoing wireless communications. The Monopole is the same height but much slimmer than the previous smokestack which hosted AT&T's existing wireless facility.

C. Will not be inconsistent with the overall purpose of the Master Plan as adopted and amended by the Community Development Board, and will consider whether the proposed uses: [Amended 6- 28-2022 by Ord. No. 1250]

(1) Will create undue traffic congestion, or unduly impair pedestrian safety.

There will be no change to the amount of existing traffic on the Site as a result of AT&T's Monopole.

(2) Will overload any public water, drainage or sewer system or any other municipal facility to such an extent that the proposed

use or any other area of the City will be unduly subject to the hazards affecting public health, safety, or general welfare.

AT&T's Facility is unmanned and will not use water or require sewer services. The Facility will continue to operate on standard electric and communication services.

SECTION 11.3 OF THE ORDINANCE

VARIANCES **The Board of Appeals shall be the Permit Granting Authority as the term is defined and employed under Chapter 40A, M.G.L., as amended, and shall have the power to grant upon appeal or upon petition of a variance from the terms of the Zoning Ordinance with respect to particular land or structure or for a use or activity not otherwise permitted in the district in which the land or structure is located, in accordance with Section 10 of Chapter 40A.**

AT&T requests that the Board vary the terms of the Ordinance to allow a setback less that a distance equal to the height of the Monopole. As the Board is aware, the Site is undergoing significant redevelopment by the Owner. Without the Facility, AT&T would be unable to provide adequate coverage to the area around the Site. AT&T agrees to remove the existing temporary wireless facility upon commencement of operations from the Facility.

1. **A literal enforcement of the provision of this Bylaw would involve a substantial hardship, financial or otherwise, to the petitioner or appellant.**

   AT&T's hardship will be significant gaps in wireless coverage without the Facility. The location of the Site relative to AT&T's anticipated gaps in network coverage renders the location uniquely suited for the Facility to fill those anticipated significant gaps in coverage. An approval would allow AT&T to maintain adequate coverage in this area of Pittsfield as authorized under its FCC licenses. Pursuant to case law, if local permit granting authorities prevent a wireless service provider from filling a gap in its network coverage, that authority's decision may "prohibit or have the effect of prohibiting the provision of personal wireless services." Obviously, the Site is an ideal, unique candidate because it can meet AT&T's anticipated significant gap in coverage. The use of the Site for the Facility at the proposed height of 115' (the same height as the previous smokestack and the maximum height

allowed pursuant to the Ordinance) will enable AT&T to continue to provide enhanced wireless communications services in the area surrounding the Site. Radio frequency coverage maps and a Radio Frequency Report, provided by AT&T, confirm that a communications facility located at the Site is required to remedy the anticipated gap in AT&T's network coverage in the area. The location on the Site also provides for the use of the Site as a transfer station providing safe access for those operations.

2. **The hardship is owing to circumstances relating to the soil conditions, shape and/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.**

The hardship is owing to the shape and topography of the land and the Site's unique location in AT&T's wireless communications services network. The location of the Site relative to AT&T's gap in network coverage renders the proposed location uniquely suited for the Facility to fill the anticipated significant gaps in coverage. Pursuant to case law, a gap in coverage is a recognized hardship for variance relief under Massachusetts state law. As noted above, if local permit granting authorities prevent a wireless service provider from filling a gap in its network coverage, that authority's decision may "prohibit or have the effect of prohibiting the provision of personal wireless services." The Site is an ideal, unique candidate because it can address AT&T's anticipated significant gaps in coverage. The topography of the land drops significantly and the adjacent land is undeveloped, and not likely to be developed due to the grade and proximity to the river.

3. **Desirable relief may be granted without substantial detriment to the public good and without nullifying or substantially derogating from the intent or purpose of this Bylaw.**

AT&T's Facility will not be a substantial detriment to the public good and will not nullify or substantially derogate from the intent or purpose of the Ordinance because it will include a and slim monopole-style tower in a partially wooded area of the Site. Potential visual impacts are minimized, and the aesthetic interests of the City of Pittsfield are preserved. The Facility benefits the public interest and welfare. The Facility will benefit those living and working in and traveling through the area by maintaining

enhanced wireless communication services. The Facility will not adversely impact adjacent properties and neighborhoods and is in a commercial/industrial area. The installation of the Facility will not be a threat to public health, safety, and welfare. In fact, AT&T submits that the proposed Facility will aid in public safety by providing and improving wireless communications services to the residents, businesses, commuters, and emergency personnel utilizing wireless communications in the immediate vicinity and along the nearby roads. AT&T also operates the FirstNet network for first responders, and we note that the Pittsfield Fire Department is a FirstNet customer. The Facility will not generate any additional or objectionable noise, odor, fumes, glare, smoke, or dust or require additional lighting or signage. The Facility will have no negative impact on property values in the area. No increase in traffic or hindrance to pedestrian movements will result from the Facility. On average, only one or two round trip visits per month are required to service and maintain the Facility which is already taking place to service the existing facility on the Site. This is an unmanned facility and will have no negative effects on the adjoining lots. This Facility does not require police or fire protection because the installation has its own monitoring equipment that can detect malfunction and/or tampering.

Without the variance relief requested, AT&T would be unable to fill its anticipated significant gaps in coverage thereby creating a hardship recognized by federal and state courts interpreting the TCA. The Site is located within the limited geographic area whereby AT&T's radio frequency engineers determined that a wireless facility is required, and existing customers would be negatively impacted if the Facility is not installed for the period of redevelopment of the Site. AT&T has demonstrated a need for coverage in an area immediately surrounding the Site in light of the demolition of the smokestack. Based on the photographs and photo simulations submitted with the Application, the Monopole lessens the visible impact of the wireless facility. Due to the existing facility at the Site, the installation of the Facility proposed by AT&T is the only feasible means reasonably available to AT&T to fill its anticipated gap in coverage. The need to close this significant gap in coverage constitutes another unique circumstance which is relevant to the grant of the requested variances.

THE TELECOMMUNICATIONS ACT OF 1996

The Federal TCA provides that: no laws or actions by any local government or planning or zoning board may prohibit, or have the effect of prohibiting, the placement, construction, or modification of communications towers, antennas, or other wireless facilities in any particular geographic area, see 47 U.S.C. §332(c)(7)(B)(i); local government or planning or zoning boards may not unreasonably discriminate among providers of functionally equivalent services, see 47 U.S.C. §332(c)(7)(B)(i); health concerns may not be considered so long as the emissions comply with the applicable standards of the FCC, see 47 U.S.C. §332(c)(7)(B)(iv); and, decisions must be rendered within a reasonable period of time, see 47 U.S.C. §332(c)(7)(B)(ii). We also note that the FCC Order redefined "effective prohibition" to mean that state and local governments cannot impose requirements that materially limit or inhibit a provider's ability to engage in activities related to the provision of service. This standard applies to efforts to introduce new or enhance coverage, capacity or service capabilities and notes that regulations that cause a financial burden or competitive disparity can be an effective prohibition.

CONCLUSION

As evidenced by the materials submitted with the Application, and as will be further demonstrated by AT&T through evidence submitted to the Board at the public hearing(s) in connection herewith, in light of the TCA, the Facility satisfies the intent and objectives of the Ordinance. AT&T respectfully requests that the Board grant all necessary relief to install, operate and maintain the Facility.

We look forward to presenting our Application to the Board at an upcoming public hearing.

Sincerely,

BROWN RUDNICK LLP

/s/Edward D. Pare, Jr.
Edward D. Pare, Jr.

Cc: Amber Spring, Community Development

2

Pittsfield Transfer Station - Casella Waste Management of Massachusetts, Inc.
500 Hubbard Avenue• Pittsfield, MA 01201

LETTER OF AUTHORIZATION

RE: AT&T Tower - 500 Hubbard Avenue, Pittsfield, MA Pittsfield

PARCEL ID: M140001008

Casella Waste Management of Massachusetts, Inc., owner of the above-described property, authorizes New Cingular Wireless PCS, LLC ("AT&T") and/or their agents, to act as our nonexclusive agent for the sole purpose of filing and consummating any land use, zoning, Conservation Commission or building permit application(s) necessary to obtain approval of the applicable jurisdiction for AT&T's proposed wireless communications facility at the above-described property.

We understand that this application may be denied, modified, or approved with conditions, and that any such conditions of approval or modifications will be the sole responsibility of AT&T.

Tracy Markham — June 7, 2024

Casella Waste Management of Massachusetts, Inc. — *Date*

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ULS License

700 MHz Lower Band (Blocks C, D) License - WPWV375 - AT&T Mobility Spectrum, LLC

This license has pending applications: 0010538588

Call Sign	WPWV375	Radio Service	WZ - 700 MHz Lower Band (Blocks C, D)
Status	Active	Auth Type	Regular

Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

Reserved Spectrum

Reserved Spectrum

Market

Market	CMA213 - Pittsfield, MA	Channel Block	C
Submarket	0	Associated Frequencies (MHz)	000710.00000000-000716.00000000 000740.00000000-000746.00000000
3.7 GHz License Type		3.7 GHz Linked License	

Dates

Grant	07/23/2019	Expiration	06/13/2029
Effective	01/18/2023	Cancellation	

Buildout Deadlines

1st	06/13/2019	2nd	

Discontinuance Dates

1st		2nd	

Notification Dates

1st	04/03/2018	2nd	04/03/2018

Licensee

FRN	0014980726	Type	Limited Liability Company

Licensee

AT&T Mobility Spectrum, LLC
208 S. Akard St. 20F
Dallas, TX 75202
ATTN FCC Group

P:(855)699-7073
F:(214)746-6410
E:FCCMW@att.com

Contact

AT&T Services, Inc.
Cecil J Mathew
208 S. Akard St. 20F
Dallas, TX 75202

P:(855)699-7073
F:(214)746-6410
E:FCCMW@att.com

Ownership and Qualifications

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	No

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

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

Tribal Land Bidding Credits
This license did not have tribal land bidding credits.

Demographics

Race

Ethnicity

Gender

ULS License

AWS (1710-1755 MHz and 2110-2155 MHz) License - WQGD502 - AT&T Mobility Spectrum, LLC

Call Sign	WQGD502	Radio Service	AW - AWS (1710-1755 MHz and 2110-2155 MHz)
Status	Active	Auth Type	Regular

Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

Reserved Spectrum

Reserved Spectrum

Market

Market	CMA213 - Pittsfield, MA	Channel Block	A
Submarket	0	Associated Frequencies (MHz)	001710.00000000-001720.00000000 002110.00000000-002120.00000000
3.7 GHz License Type		3.7 GHz Linked License	

Dates

Grant	12/22/2021	Expiration	12/18/2036
Effective	01/18/2023	Cancellation	

Buildout Deadlines

1st	2nd

Discontinuance Dates

1st	2nd

Notification Dates

1st	2nd	05/27/2021

Licensee

FRN	0014980726	Type	Limited Liability Company

Licensee

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Ownership and Qualifications

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

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

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

Tribal Land Bidding Credits
This license did not have tribal land bidding credits.

Demographics

Race	
Ethnicity	Gender

ULS License

AWS-3 (1695-1710 MHz, 1755-1780 MHz, and 2155-2180 MHz) License - WQVN685 - AT&T Wireless Services 3 LLC

This license has pending applications: 0010704697

Call Sign	WQVN685	Radio Service	AT - AWS-3 (1695-1710 MHz, 1755-1780 MHz, and 2155-2180 MHz)
Status	Active	Auth Type	Regular

Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

Reserved Spectrum

Reserved Spectrum

Market

Market	BEA010 - New York-North New Jersey-Long Island, NY-NJ-CT-PA-MA-VT	Channel Block	J
Submarket	0	Associated Frequencies (MHz)	001770.00000000-001780.00000000 002170.00000000-002180.00000000
3.7 GHz License Type		3.7 GHz Linked License	

Dates

Grant	04/08/2015	Expiration	04/08/2027
Effective	01/12/2023	Cancellation	

Buildout Deadlines

1st	04/08/2021	2nd	04/08/2027

Discontinuance Dates

1st		2nd	

Notification Dates

1st	12/09/2020	2nd	12/09/2020

Licensee

FRN	0023910920	Type	Limited Liability Company

Licensee

AT&T Wireless Services 3 LLC
208 S. Akard St. 20F
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P:(855)699-7073
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ATTN Michael P. Goggin

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F:(214)746-6410
E:FCCMW@att.com

Ownership and Qualifications

Radio Service Type	Mobile		
Regulatory Status	Common Carrier, Non-Common Carrier	Interconnected	Yes

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

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

Tribal Land Bidding Credits
This license did not have tribal land bidding credits.

Demographics

Race

Ethnicity

Gender

ULS License

Cellular License - KNKA666 - AT&T Mobility Spectrum, LLC

This license has pending applications: 0010538588

Call Sign	KNKA666	Radio Service	CL - Cellular
Status	Active	Auth Type	Regular

Market

Market	CMA213 - Pittsfield, MA	Channel Block	B
Submarket	0	Phase	2

Dates

Grant	09/05/2018	Expiration	10/01/2028
Effective	01/18/2023	Cancellation	

Five Year Buildout Date

01/19/1994

Control Points

1	100 LOWDER BROOK DRIVE,, WESTWOOD,, MA P: (617)462-7094

Licensee

FRN	0014980726	Type	Limited Liability Company

Licensee

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E:FCCMW@ATT.COM

Ownership and Qualifications

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

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

Demographics

Race

Ethnicity

Gender

ULS License

PCS Broadband License - KNLF216 - New Cingular Wireless PCS, LLC

Call Sign	KNLF216	Radio Service	CW - PCS Broadband
Status	Active	Auth Type	Regular

Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

Reserved Spectrum

Reserved Spectrum

Market

Market	MTA008 - Boston-Providence	Channel Block	A
Submarket	27	Associated Frequencies (MHz)	001850.00000000-001865.00000000 001930.00000000-001945.00000000
3.7 GHz License Type		3.7 GHz Linked License	

Dates

Grant	06/02/2015	Expiration	06/23/2025
Effective	01/14/2023	Cancellation	

Buildout Deadlines

1st	06/23/2000	2nd	06/23/2005

Discontinuance Dates

1st		2nd	

Notification Dates

1st	06/28/2000	2nd	03/08/2005

Licensee

FRN	0003291192	Type	Limited Liability Company

Licensee

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Ownership and Qualifications

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

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

Tribal Land Bidding Credits
This license did not have tribal land bidding credits.

Demographics

Race

Ethnicity

Gender

ULS License

700 MHz Lower Band (Blocks C, D) License - WPZA235 - New Cingular Wireless PCS, LLC

This license has pending applications: 0010704784

Call Sign	WPZA235	Radio Service	WZ - 700 MHz Lower Band (Blocks C, D)
Status	Active	Auth Type	Regular

Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

Reserved Spectrum

Reserved Spectrum

Market

Market	EAG701 - Northeast	Channel Block	D
Submarket	0	Associated Frequencies (MHz)	000716.00000000-000722.00000000
3.7 GHz License Type		3.7 GHz Linked License	

Dates

Grant	11/05/2019	Expiration	06/13/2029
Effective	01/14/2023	Cancellation	

Buildout Deadlines

1st	06/13/2019	2nd	

Discontinuance Dates

1st		2nd	

Notification Dates

1st	06/10/2019	2nd	06/10/2019

Licensee

FRN	0003291192	Type	Limited Liability Company

Licensee

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Ownership and Qualifications

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

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

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

Tribal Land Bidding Credits
This license did not have tribal land bidding credits.

Demographics

Race	
Ethnicity	Gender

ULS License

700 MHz Lower Band (Blocks A, B & E) License - WQIZ617 - New Cingular Wireless PCS, LLC

This license has pending applications: 0010704784

Call Sign	WQIZ617	Radio Service	WY - 700 MHz Lower Band (Blocks A, B & E)
Status	Active	Auth Type	Regular

Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

Reserved Spectrum

Reserved Spectrum

Market

Market	BEA010 - New York-North New Jersey-Long Island, NY-NJ-CT-PA-MA-VT	Channel Block	E
Submarket	0	Associated Frequencies (MHz)	000722.00000000-000728.00000000
3.7 GHz License Type		3.7 GHz Linked License	

Dates

Grant	02/09/2021	Expiration	03/07/2031
Effective	01/14/2023	Cancellation	

Buildout Deadlines

1st	03/07/2017	2nd	03/07/2021

Discontinuance Dates

1st		2nd	

Notification Dates

1st	03/15/2017	2nd	06/16/2020

Licensee

FRN	0003291192	Type	Limited Liability Company

Licensee

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ATTN Cecil J Mathew

Ownership and Qualifications

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

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

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

Tribal Land Bidding Credits
This license did not have tribal land bidding credits.

Demographics

Race	
Ethnicity	Gender

ULS License

700 MHz Lower Band (Blocks A, B & E) License - WQJU663 - AT&T Mobility Spectrum, LLC

This license has pending applications: 0010538588

Call Sign	WQJU663	Radio Service	WY - 700 MHz Lower Band (Blocks A, B & E)
Status	Active	Auth Type	Regular

Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP) bidding credit?

Reserved Spectrum

Reserved Spectrum

Market

Market	CMA213 - Pittsfield, MA	Channel Block	B
Submarket	0	Associated Frequencies (MHz)	000704.00000000-000710.00000000 000734.00000000-000740.00000000
3.7 GHz License Type		3.7 GHz Linked License	

Dates

Grant	07/24/2019	Expiration	06/13/2029
Effective	01/18/2023	Cancellation	

Buildout Deadlines

1st	12/13/2016	2nd	06/13/2019

Discontinuance Dates

1st		2nd	

Notification Dates

1st	11/29/2016	2nd	11/29/2016

Licensee

FRN	0014980726	Type	Limited Liability Company

Licensee

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E:FCCMW@att.com

Ownership and Qualifications

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

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

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

Tribal Land Bidding Credits
This license did not have tribal land bidding credits.

Demographics

Race	
Ethnicity	Gender

4

PROJECT INFORMATION

SCOPE OF WORK:	TELECOMMUNICATIONS FACILITY (NSB): A PROPOSED 111'–0" A.G.L. TALL MONOPOLE. PROPOSED WALK–IN CABINET, AND GENERATOR WILL BE INSTALLED AT GRADE INSIDE A PROPOSED FENCED–IN COMPOUND. PROPOSED TWELVE PANEL ANTENNAS AND ASSOCIATED EQUIPMENT WILL BE INSTALLED AT A HEIGHT OF 107'–0" A.G.L.
SITE ADDRESS:	500 HUBBARD AVENUE PITTSFIELD, MA 01201
APPLICANT:	AT&T MOBILITY 492 OLD CONNECTICUT PATH SUITE #210 FRAMINGHAM, MA 01701
SITE OWNER:	CASELLA WASTE MANAGEMENT OF MASSACHUSETTS INC 25 GREEN HILLS LANE RUTLAND, VT 05701
LATITUDE:	42.468878 N, 42° 28' 07.96" N
LONGITUDE:	73.194814 W, 73° 11' 41.33" W
TYPE OF SITE:	MONOPOLE/ WALK–IN CABINET
OVERALL HEIGHT:	115'–0"±
RAD CENTER:	107'–0"±

AT&T

SITE NUMBER: MA2974

SITE NAME: PITTSFIELD HUBBARD AVE

FA CODE:10072072

PACE ID: MRCTB066573

PROJECT: NSB

APPROVALS

_____
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DRAWING INDEX

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C–2	PLOT PLAN	7
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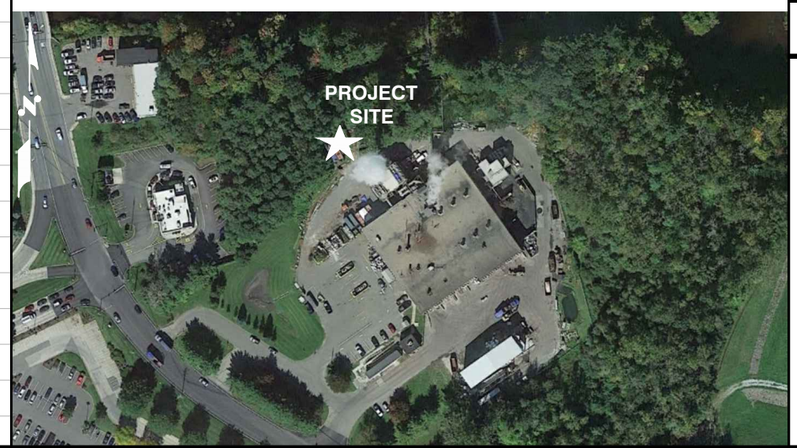
VICINITY MAP

DIRECTIONS TO SITE:

HEAD SOUTHWEST. TURN RIGHT TOWARD LEGGATT MCCALL CONN. TURN LEFT ONTO LEGGATT MCCALL CONN. CONTINUE ONTO BURR ST. TURN LEFT ONTO COCHITUATE RD. USE THE RIGHT LANE TO MERGE ONTO I–90 W VIA THE RAMP TO SPRINGFIELD. MERGE ONTO I–90 W. TURN RIGHT ONTO BONNY RIGG HILL RD. CONTINUE ONTO MA–8 N. TURN LEFT ONTO MCNERNEY RD. CONTINUE TO FOLLOW WASHINGTON MOUNTAIN RD. TURN RIGHT ONTO DALTON DIVISION RD. CONTINUE ONTO HUBBARD AVE. TURN RIGHT. DESTINATION WILL BE ON THE LEFT



GENERAL NOTES

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T MOBILITY REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
4. CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

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COMMONWEALTH OF MASSACHUSETTS
DANIEL P. HAMM
CIVIL
No. 40720
REGISTERED PROFESSIONAL ENGINEER

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45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845
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SAI
12 INDUSTRIAL WAY
SALEM, NH 03079

SITE NUMBER: MA2974
SITE NAME: PITTSFIELD HUBBARD AVE

500 HUBBARD AVENUE
PITTSFIELD, MA 01201
BERKSHIRE COUNTY

AT&T
492 OLD CONNECTICUT PATH SUITE #210
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
7	08/16/24	ISSUED FOR PERMITTING	CJ	JC	DPH
6	05/16/24	ISSUED FOR PERMITTING	CC	JC	DPH
5	04/25/24	ISSUED FOR REVIEW	CJ	JC	DPH
4	02/16/24	ISSUED FOR REVIEW	CC	JC	DPH
3	01/05/24	ISSUED FOR REVIEW	CC	JC	DPH

SCALE: AS SHOWN | DESIGNED BY: JC | DRAWN BY: CC

AT&T MOBILITY

TITLE SHEET
(NSB)

SITE NUMBER	DRAWING NUMBER	REV
MA2974	T–1	7

GROUNDING NOTES

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.

2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81 STANDARDS) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.

5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS AND #2 AWG STRANDED COPPER FOR OUTDOOR BTS.

6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.

9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.

10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

   CONTRACTOR – SAI
   SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
   OWNER – AT&T MOBILITY

2. 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.

3. 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 JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.

5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.

7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.

9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, 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.

10. 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 OWNER.

11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.

13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.

15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCH UP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.

16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."

17. 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.

18. THE EXISTING CELL SITE IS 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.

19. SINCE THE 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 ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

20. **APPLICABLE BUILDING CODES:**
    SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

    BUILDING CODE: IBC 2015 & MA STATE BUILDING CODE 780 CMR 9TH EDITION
    ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE (NFPA 70-2017)

    SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

    AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

    AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;

    TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARDS FOR STEEL

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
BTCW	BARE TINNED SOLID COPPER WIRE	MGB	MASTER GROUND BAR	TBR	TO BE REMOVED
BGR	BURIED GROUND RING	MIN	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
BTS	BASE TRANSCEIVER STATION	P	PROPOSED	TYP	TYPICAL
E	EXISTING	NTS	NOT TO SCALE	UG	UNDER GROUND
EGB	EQUIPMENT GROUND BAR	RAD	RADIATION CENTER LINE (ANTENNA)	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		

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12 INDUSTRIAL WAY
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SITE NUMBER: MA2974
SITE NAME: PITTSFIELD HUBBARD AVE

500 HUBBARD AVENUE
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BERKSHIRE COUNTY

AT&T
492 OLD CONNECTICUT PATH SUITE #210
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
7	08/16/24	ISSUED FOR PERMITTING	CJ	JC	DJH
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3	01/05/24	ISSUED FOR REVIEW	CC	JC	DJH

SCALE: AS SHOWN | DESIGNED BY: JC | DRAWN BY: CC

COMMONWEALTH OF MASSACHUSETTS
DANIEL P. HAMM
CIVIL
No. 40720
REGISTERED PROFESSIONAL ENGINEER

AT&T MOBILITY

GENERAL NOTES
(NSB)

SITE NUMBER	DRAWING NUMBER	REV
MA2974	GN-1	7

STRUCTURAL NOTES:

1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-H STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
3. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
5. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
6. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UON.
7. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
8. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
9. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
10. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND DI.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL". 14TH EDITION.
11. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
12. UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
13. EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS. AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-270 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
14. EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
15. LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
16. WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
17. ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
18. NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
19. SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

MASSACHUSETTS AMENDMENTS TO THE IBC (REFERENCE 780 CMR):

107.6 CONSTRUCTION CONTROL.
107.6.1 GENERAL. THIS SECTION SHALL APPLY TO THE CONSTRUCTION CONTROLS, PROFESSIONAL SERVICES AND CONTRACTOR SERVICES REQUIRED FOR BUILDINGS AND STRUCTURES NEEDING REGISTERED DESIGN PROFESSIONAL SERVICES.

107.6.1.1 SPECIALIZED STRUCTURES. TELECOMMUNICATION TOWERS, WIND TURBINE TOWERS, AND SIMILAR STRUCTURES ARE ENGINEERED STRUCTURES AND SHALL BE SUBJECT TO THE REQUIREMENTS OF SECTION 107.6.

107.6.2.2 CONSTRUCTION. THE REGISTERED DESIGN PROFESSIONALS WHO ARE RESPONSIBLE FOR THE DESIGN, PLANS, CALCULATIONS, AND SPECIFICATIONS, THEIR DESIGNEE OR THE REGISTERED DESIGN PROFESSIONALS WHO HAVE BEEN RETAINED FOR CONSTRUCTION PHASE SERVICES, SHALL PERFORM THE FOLLOWING TASKS:

1. REVIEW, FOR CONFORMANCE TO 780 CMR AND THE DESIGN CONCEPT, SHOP DRAWINGS, SAMPLES AND OTHER SUBMITTALS BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.
2. PERFORM THE DUTIES FOR REGISTERED DESIGN PROFESSIONALS IN 780 CMR 17.00 SPECIAL INSPECTIONS AND TESTS.
3. BE PRESENT AT INTERVALS APPROPRIATE TO THE STAGE OF CONSTRUCTION TO BECOME GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF THE WORK AND TO DETERMINE IF THE WORK IS BEING PERFORMED IN A MANNER CONSISTENT WITH THE CONSTRUCTION DOCUMENTS AND 780 CMR.

THE PERMIT APPLICATION SHALL NOT BE DEEMED COMPLETED UNTIL ALL OF THE CONSTRUCTION DOCUMENTS REQUIRED BY 780 CMR HAVE BEEN SUBMITTED. DOCUMENTATION INDICATING THAT WORK COMPLIES WITH THE PLANS AND SPECIFICATIONS SHALL BE PROVIDED AT THE COMPLETION OF EACH PHASE WHEN REQUIRED BY THE BUILDING OFFICIAL. UPON COMPLETION OF THE WORK, THE REGISTERED DESIGN PROFESSIONAL SHALL FILE A FINAL DOCUMENT TO THE BUILDING OFFICIAL INDICATING THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THW APPROVED PLANS AND 780 CMR. FORMS FOR CONSTRUCTION CONTROL WHEN REQUIRED BY THE BUILDING OFFICIAL SHALL BE THOSE FOUND AT http://www.mass.gov/ocabr/government/oca-agencies/dpl-lp/opsi/.

107.6.2.3 SPECIAL INSPECTIONS AND TESTS. SPECIAL INSPECTIONS AND TESTS SHALL BE PROVIDED IN ACCORDANCE WITH 780 CMR 17.00 SPECIAL INSPECTIONS AND TESTS.

170.6.2.4 NON STRUCTURAL SYSTEM TEST AND INSPECTION. TESTS AND INSPECTIONS OF NON-STRUCTURAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE ENGINEERING PRACTICE STANDARDS, REFERENCED STANDARDS LISTED IN 780 CMR 35.00: REFERENCED STANDARDS, OR AS OTHERWISE SPECIFIED IN 780 CMR.

107.6.3 CONSTRUCTION CONTRACTOR SERVICES. THE ACTUAL CONSTRUCTION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AS IDENTIFIED ON THE APPROVED PERMIT AND SHALL INVOLVE THE FOLLOWING:

1. EXECUTION OF ALL WORK IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
2. EXECUTION AND CONTROL OF ALL METHODS OF CONSTRUCTION IN A SAFE AND SATISFACTORY MANNER IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL STATUTES AND REGULATIONS.
3. UPON COMPLETION OF THE CONSTRUCTION, CERTIFICATION IN WRITING TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE THAT, TO THE BEST OF THE CONTRACTOR'S KNOWLEDGE AND BELIEF, CONSTRUCTION HAS BEEN DONE IN SUBSTANTIAL ACCORD WITH SECTION 107.6 AND WITH ALL PERTINENT DEVIATIONS SPECIFICALLY NOTED. THE BUILDING OFFICIAL MAY REQUIRE A COPY OF THIS CERTIFICATION.

107.6.4 PROJECT REPRESENTATION. A PROJECT REPRESENTATIVE MAY BE REQUIRED BY THE BUILDING OFFICIAL. THIS REPRESENTATIVE SHALL KEEP DAILY RECORDS AND SUBMIT REPORTS AS MAY BE REQUIRED BY THE BUILDING OFFICIAL. THIS PROJECT REPRESENTATION REQUIREMENT SHALL BE DETERMINED PRIOR TO THE ISSUANCE OF THE PERMIT AND MAY BE A PREREQUISITE FOR PERMIT ISSUANCE. REFUSAL BY THE APPLICANT TO PROVIDE SUCH SERVICE IF REQUIRED BY THE BUILDING OFFICIAL SHALL RESULT IN THE DENIAL OF THE PERMIT. ALL FEES AND COSTS RELATED TO THE PERFORMANCE OF PROJECT REPRESENTATION SHALL BE BORNE BY THE OWNER. WHEN APPLICATIONS FOR UNUSUAL DESIGNS OR MAGNITUDE OF CONSTRUCTION ARE FILED, OR WHERE REFERENCE STANDARDS REQUIRE SPECIAL ARCHITECTURAL OR ENGINEERING INSPECTIONS, THE BUILDING OFFICIAL MAY REQUIRE THAT THE PROJECT REPRESENTATIVE BE A REGISTERED DESIGN PROFESSIONAL IN ADDITION TO THOSE REGISTERED DESIGN PROFESSIONALS REQUIRED ELSEWHERE IN ACCORDANCE WITH SECTION 107.6.

107.6.5 BUILDING OFFICIAL RESPONSIBILITY. NOTHING CONTAINED IN SECTION 107.6 SHALL HAVE THE EFFECT OF WAIVING OR LIMITING THE BUILDING OFFICIAL'S AUTHORITY TO ENFORCE 780 CMR WITH RESPECT TO EXAMINATION OF THE CONTRACT DOCUMENTS, INCLUDING PLANS, COMPUTATIONS AND SPECIFICATIONS, AND FIELD INSPECTIONS.

SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):

GENERAL: WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.

THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

REQUIRED INSPECTIONS AND SITE REVIEW DOCUMENT AS A CONDITION OF THE BUILDING PERMIT THE FOLLOWING INSPECTIONS AND SITE REVIEWS IDENTIFIED BY THE BUILDING OFFICIAL ARE REQUIRED FOR WORK PER THE 9TH EDITION OF THE MASSACHUSETTS STATE BUILDING CODE, 780 CMR, SECTION 110 AND CHAPTER 17

REQUIRED SITE REVIEW AND DOCUMENTATION FOR PORTIONS OR PHASES CONSTRUCTION [1,6,7]
(TO BE PERFORMED BY THE APPROPRIATE REGISTERED DESIGN PROFESSIONAL OR HIS/HER DESIGNEE OR M.G.L.C 112 §81R CONTRACTOR)

SITE REVIEW AND DOCUMENTATION	X	SITE REVIEW AND DOCUMENTATION	X
SOIL CONDITION/ANALYSIS/REPORT		ENERGY EFFICIENCY REQUIREMENTS	
FOOTING AND FOUNDATION (INCLUDING REINFORCEMENT AND FOUNDATION ATTACHMENT)		FIRE ALARM INSTALLATION[2]	
CONCRETE FLOOR AND UNDER FLOOR		FIRE SUPPRESSION INSTALLATION[3]	
LOWEST FLOOR FLOOD ELEVATION		FIELD REPORTS[5]	
STRUCTURAL FRAME – WALL/FLOOR/ROOF	X	CARBON MONOXIDE DETECTION SYSTEM[4]	
LATH AND PLASTER/GYPSUM		SEISMIC REINFORCEMENT	
FIRE RESISTANT WALL/PARTITIONS FRAMING		SMOKE CONTROL SYSTEMS	
FIRE RESISTANT WALL/PARTITIONS FINISH ATTACHMENTS		SMOKE AND HEAT VENTS	
ABOVE CEILING INSPECTION		ACCESSIBILITY (521 CMR)	
FIRE BLOCKING/STOPPING SYSTEM		OTHER:	
EMERGENCY LIGHTING/EXIT SIGNAGE			
MEANS OF EGRESS COMPONENTS		SPECIAL INSPECTIONS (SECTION 1704):	X
ROOFING, COPING/SYSTEM			
VENTING SYSTEMS (KITCHEN, CHEMICAL, FUME)			
MECHANICAL SYSTEMS			

NOTES:

1. ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4"ø A325-X BOLTS, UNLESS OTHERWISE NOTIFIED.
2. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL.
3. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION.
4. VERIFICATION OF EXISTING ROOF CONSTRUCTION IS REQUIRED PRIOR TO THE INSTALLATION OF THE ROOF PLATFORM. ENGINEER OF RECORD IS TO APPROVE EXISTING CONDITIONS IN ORDER TO MOVE FORWARD.
5. CENTERLINE OF PROPOSED STEEL PLATFORM SUPPORT COLUMNS TO BE CENTRALLY LOCATED OVER THE EXISTING BUILDING COLUMNS.
6. EXISTING BRICK MASONRY COLUMNS/BEARING TO BE REPAIRED/REPLACED AT ALL PROPOSED PLATFORM SUPPORT POINTS. ENGINEER OF RECORD TO REVIEW AND APPROVE.

NOTES:

1. REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL.
2. PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL.
3. PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS.
4. HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C,D 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE.
5. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.8.2.4.
6. AS REQUIRED; FOR ANY FIELD CHANGES TO THE ITEMS IN THIS TABLE.

SPECIAL INSPECTION CHECKLIST

BEFORE CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
N/A	ENGINEER OF RECORD APPROVED SHOP DRAWINGS [1]
N/A	MATERIAL SPECIFICATIONS REPORT [2]
N/A	FABRICATOR NDE INSPECTION
N/A	PACKING SLIPS [3]
ADDITIONAL TESTING AND INSPECTIONS:	
DURING CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS [4]
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION [5]
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
ADDITIONAL TESTING AND INSPECTIONS:	
AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS [6]
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

1. IT IS THE RESPONSIBILITY OF THE PERMIT APPLICANT TO NOTIFY THE BUILDING OFFICIAL OF REQUIRED INSPECTIONS (X). INSPECTION OF 780 CMR FIRE PROTECTION SYSTEMS MAY BE WITNESSED BY THE FIRE OFFICIAL AND INSTALLATION PERMITS ARE REQUIRED FROM THE FIRE DEPARTMENT PER 527 CMR.
2. INCLUDE NFPA 72 TEST AND ACCEPTANCE DOCUMENTATION
3. INCLUDE APPLICABLE NFPA 13, 13R, 13D, 14, 15, 17, 20, 241, ETC. – TEST AND ACCEPTANCE DOCUMENTATION
4. INCLUDE NFPA 720 RECORD OF COMPLETION AND INSPECTION AND TEST FORM
5. INCLUDE FIELD REPORTS AND RELATED DOCUMENTATION
6. WORK SHALL NOT PROCEED, OR BE CONCEALED, UNTIL THE REQUIRED INSPECTION HAS BEEN APPROVED BY THE BUILDING OFFICIAL, AND NOTHING WITHIN CONSTRUCTION CONTROL SHALL HAVE THE EFFECT OF WAIVING OR LIMITING THE BUILDING OFFICIAL'S AUTHORITY TO ENFORCE THIS CODE WITH RESPECT TO EXAMINATION OF THE CONTRACT DOCUMENTS, INCLUDING PLANS, COMPUTATIONS AND SPECIFICATIONS, AND FIELD INSPECTIONS.
7. ROUGH AND/OR FINISH INSPECTIONS OF ELECTRICAL, PLUMBING, OR SHEET METAL SHALL BE INSPECTED PRIOR TO ROUGH AND FINISH INSPECTIONS BY THE BUILDING OFFICIAL.

TEP NORTHEAST
TEP OPCO, LLC.
45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845
TEL: (978) 557-5553

SAI
12 INDUSTRIAL WAY
SALEM, NH 03079

SITE NUMBER: MA2974
SITE NAME: PITTSFIELD HUBBARD AVE

500 HUBBARD AVENUE
PITTSFIELD, MA 01201
BERKSHIRE COUNTY

AT&T
492 OLD CONNECTICUT PATH SUITE #210
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
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5	04/25/24	ISSUED FOR REVIEW	CJ	JC	DJH
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3	01/05/24	ISSUED FOR REVIEW	CC	JC	DJH

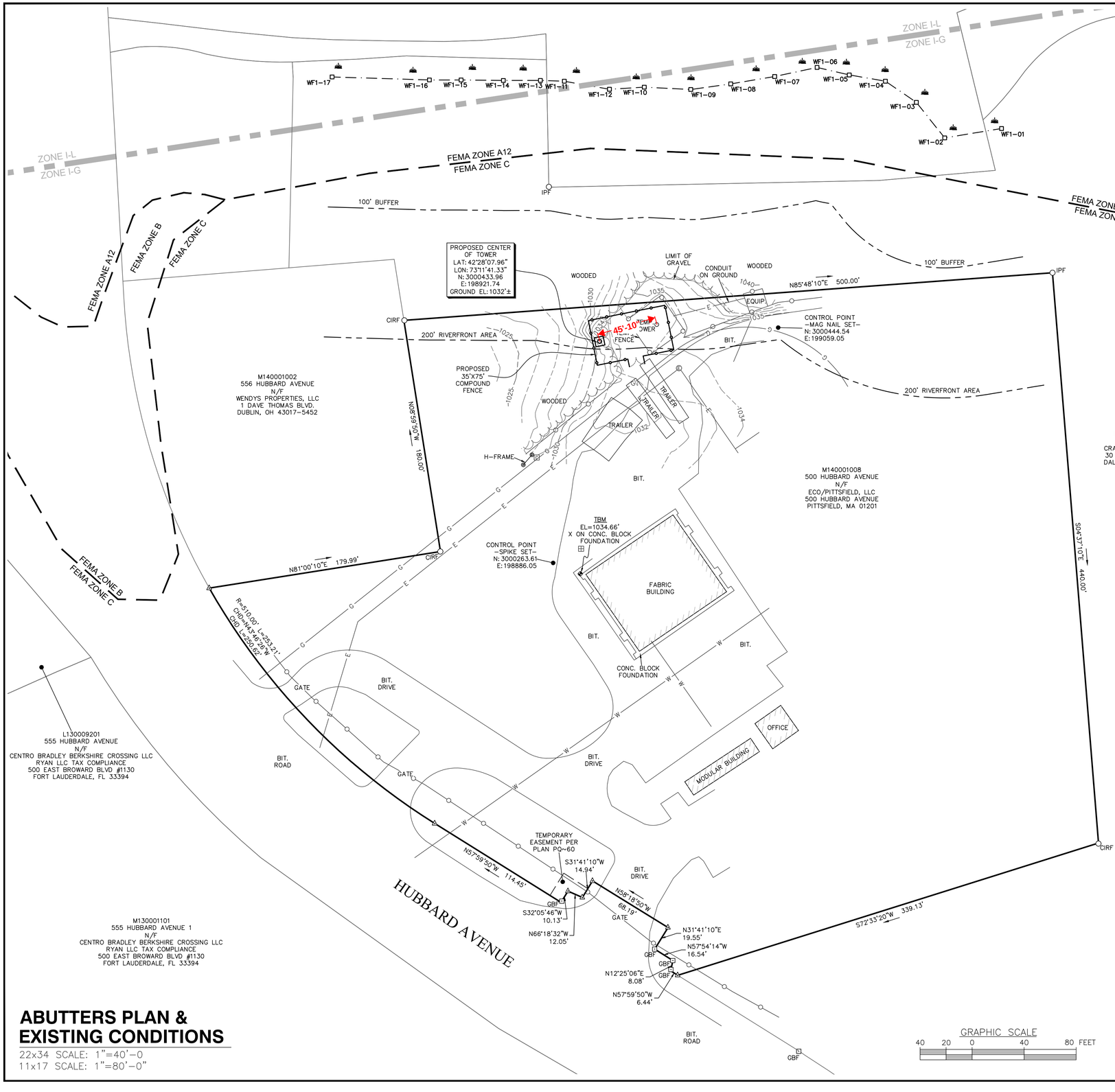
SCALE: AS SHOWN | DESIGNED BY: JC | DRAWN BY: CC

COMMONWEALTH OF MASSACHUSETTS
DANIEL P. HAMM
CIVIL
No. 40720
REGISTERED PROFESSIONAL ENGINEER

AT&T MOBILITY

SPECIAL INSPECTION NOTES (NSB)

SITE NUMBER	DRAWING NUMBER	REV
MA2974	SN-1	7



ABUTTERS PLAN & EXISTING CONDITIONS

22x34 SCALE: 1"=40'-0
11x17 SCALE: 1"=80'-0"

LEGEND

- PROPERTY LINE – SUBJECT PARCEL
- ABUTTERS PROPERTY LINE
- EASEMENT LINE
- CONTOUR LINE
- E — BURIED ELECTRIC LINE
- G — BURIED GAS LINE
- W — BURIED WATER LINE
- TREELINE
- FEMA FLOOD ZONE LINE
- WETLAND DELINEATION
- ZONING LINE
- CHAIN LINK FENCE
- CALCULATED POINT
- GRANITE BOUND FOUND
- IRON PIPE FOUND
- CAPPED IRON ROD FOUND
- TOWER CONTROL POINT
- TEMPORARY BENCHMARK (TBM)
- ELECTRIC MANHOLE
- TELECOM. BOX
- POST
- WETLAND FLAG
- CATCH BASIN

SITE SPECIFIC NOTES:

1. FIELD SURVEY DATE: 9-21-2023 & 10-17-2023
2. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83)
3. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
4. OWNER: ECO/PITTSFIELD, LLC
   500 HUBBARD AVENUE
   PITTSFIELD, MA 01201
5. SITE NAME: PITTSFIELD HUBBARD AVE
6. SITE ADDRESS 500 HUBBARD AVENUE
   PITTSFIELD, MA 01201
7. APPLICANT: AT&T
   550 COCHITUATE ROAD
   FRAMINGHAM, MA 01701
8. ZONING DISTRICT: I-G
9. JURISDICTION: CITY OF PITTSFIELD
   BERKSHIRE COUNTY
10. TAX ID: M140001008
11. DEED REFERENCE: DEED BOOK 3164 PAGE 39
12. PLAN REFERENCE: PLAN DRAWER C NO. 12
    PLAT FILE Q NO. 60
13. THE HORIZONTAL DATUM AND VERTICAL DATUM WERE DERIVED FROM AN RTK GPS SURVEY.
14. ALL UNDERGROUND UTILITY INFORMATION PRESENTED HEREON WAS DETERMINED FROM SURFACE EVIDENCE ONLY. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED IN THE FIELD PRIOR TO COMMENCEMENT OF ALL SITE WORK. CALL DIGSAFE 1-800-322-4844 A MINIMUM OF 72 HOURS PRIOR TO PLANNED ACTIVITY.
15. ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE LOCUS PARCEL IS LOCATED IN AREAS DESIGNATED AS ZONE C (AREAS OF MINIMAL FLOODING). COMMUNITY PANEL NO. 2500370010C
    EFFECTIVE DATE: 2/19/1982.
16. FIELD SURVEY BY EDM TOTAL STATION AND RTK GPS.
17. THIS IS NOT A BOUNDARY SURVEY.
18. ALL PROPERTY LINES SHOWN ARE FROM FIELD EVIDENCE, DEEDS & PLANS OF RECORD AND GIS DATA AND ARE APPROXIMATE ONLY.
19. WETLANDS SHOWN HEREON WERE DELINEATED BY ALL-POINTS TECHNOLOGY CORPORATION.

ZONING INFORMATION

JURISDICTION:	CITY OF PITTSFIELD	
ZONING DISTRICT TYPE:	I-G	
DIMENSION REQUIREMENTS:	REQUIRED	PROPOSED
MINIMUM LOT AREA:	7,500 S.F.	–
MINIMUM FRONTAGE:	N/R	–
MIN. FRONT YARD SETBACK:	N/R	–
MIN. SIDE YARD SETBACK:	N/R	–
MIN. REAR YARD SETBACK:	N/R	–
MAXIMUM BUILDING HEIGHT:	125'	–

TEP NORTHEAST
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45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845
TEL: (978) 557-5553

NORTHEAST SURVEY CONSULTANTS
3 Ferry Street
Studio 1 East
Easthampton, MA 01027
(413) 203-5144
northeastsurvey.com

COMMONWEALTH OF MASSACHUSETTS
DANIEL F. STASZ
No.47160
REGISTERED PROFESSIONAL LAND SURVEYOR

DANIEL F. STASZ PLS #47160

CHECKED BY: BCF

APPROVED BY: DFS

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	4/25/24	MOVE PROPOSED FENCE	BCF
0	4/12/24	ISSUED FOR REVIEW	JDG

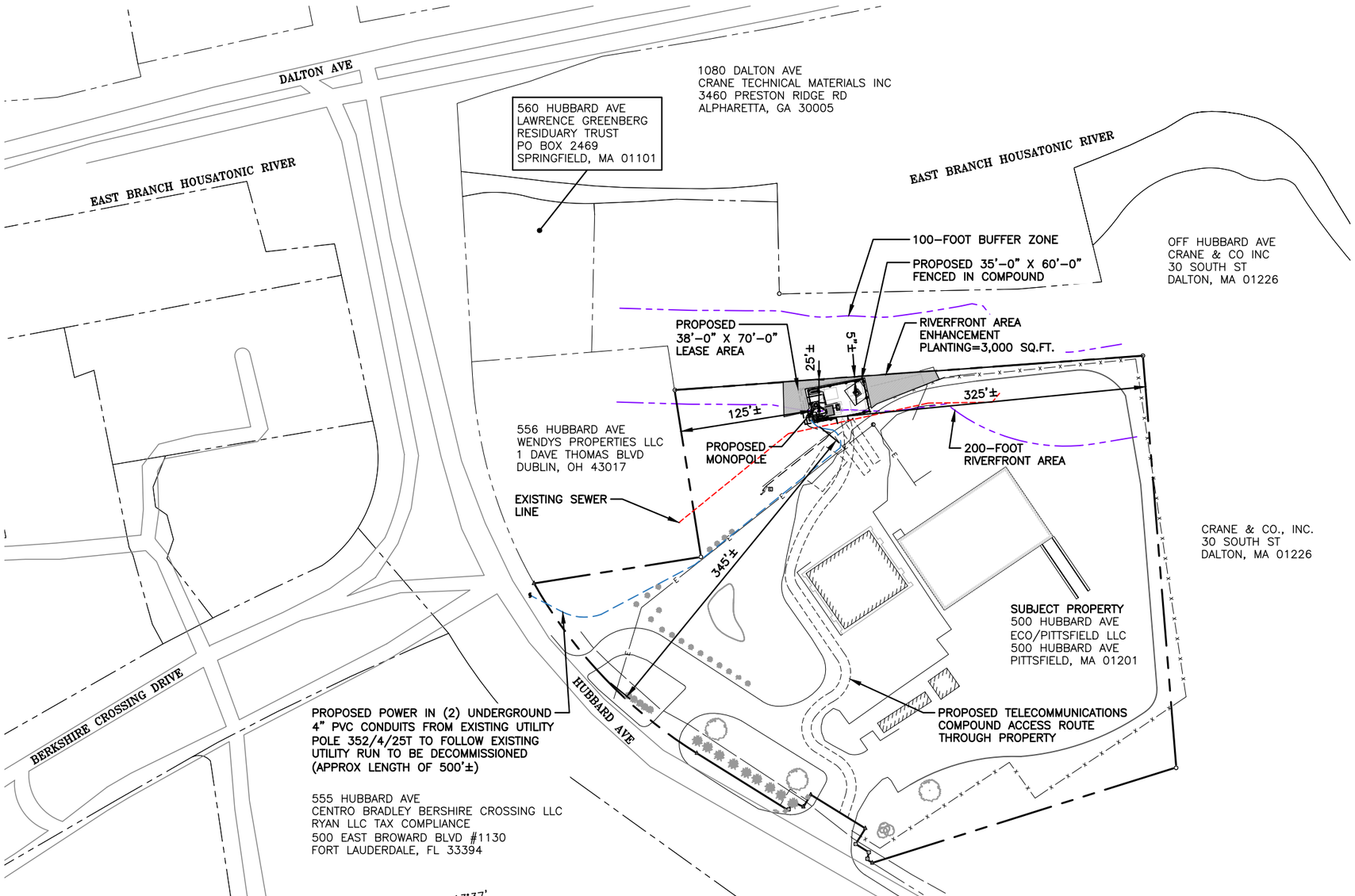
SITE NUMBER:
MA2974

SITE NAME:
PITTSFIELD HUBBARD AVE

SITE ADDRESS:
500 HUBBARD AVENUE
PITTSFIELD, MA 01201

SHEET TITLE
ABUTTERS PLAN & EXISTING CONDITIONS

SHEET NUMBER
C-1



PLOT PLAN (1 / C-2)
22x34 SCALE: 1/64"=1'-0"
11x17 SCALE: 1/128"=1'-0"

TOWER COORDINATES:

42.468878 N,	42° 28' 07.96" N
73.194814 W,	73° 11' 41.33" W

INFORMATION TAKEN FROM MASSACHUSETTS STATE GIS. PLAN ENTITLED ABUTTERS PLAN AND EXISTING CONDITIONS, BY NORTHEAST SURVEY CONSULTANTS, DATED 1/4/2024

APPROVALS

ZONING INFORMATION

ZONING DISTRICT:	I-G: GENERAL INDUSTRIAL	
DIMENSIONS REQUIREMENTS:	REQUIRED	PROPOSED
ANTENNA SETBACKS		
FRONT YARD SETBACK:	N/R	345'±
SIDE YARD SETBACK:	N/R	125'± & 325'±
REAR YARD SETBACK:	N/R	5'±
TOTAL LOT AREA: 5.61 ACRES		

(ALL MEASUREMENTS ARE IN FEET ± UNLESS OTHERWISE NOTED)
(SETBACK TO EXISTING EQUIPMENT SHELTER UNLESS OTHERWISE NOTED)

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4	02/16/24	ISSUED FOR REVIEW	CC	JC	DPH
3	01/05/24	ISSUED FOR REVIEW	CC	JC	DPH

SCALE: AS SHOWN | DESIGNED BY: JC | DRAWN BY: CC

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REGISTERED PROFESSIONAL ENGINEER

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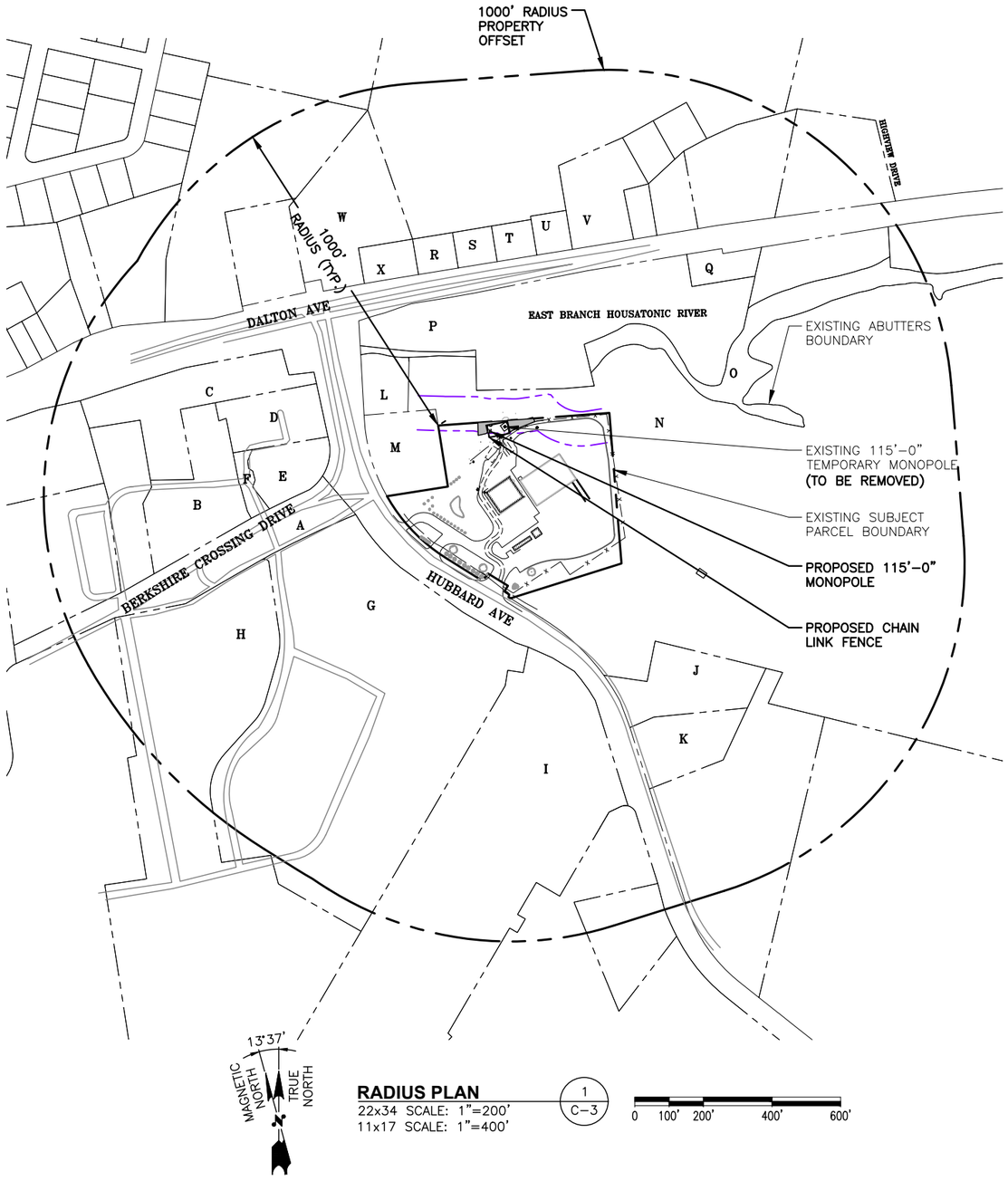
PLOT PLAN
(NSB)

SITE NUMBER	DRAWING NUMBER	REV.
MA2974	C-2	7



RADIUS PLAN (1 / C-3)
22x34 SCALE: 1"=200'
11x17 SCALE: 1"=400'

ABUTTERS LIST

	ADDRESS	ID	OWNER	OWNER'S ADDRESS
A	555 HUBBARD AVE PITTSFIELD, MA 01201	L130009201	CENTRO BRADLEY BERKSHIRE CROSSING LLC	500 EAST BROWARD BLVD #1130 FORT LAUDERDALE, FL 33394
B	555 HUBBARD AVE PITTSFIELD, MA 01201	L140003107	FCPT HOLDINGS LLC	591 REDWOOD HIGHWAY #3215 MILL VALLEY, CA 94941
C	555 HUBBARD AVE PITTSFIELD, MA 01201	L140003108	CENTRO BRADLEY BERKSHIRE CROSSING LLC	500 EAST BROWARD BLVD #1130 FORT LAUDERDALE, FL 33394
D	555 HUBBARD AVE PITTSFIELD, MA 01201	L140003109	CENTRO BRADLEY BERKSHIRE CROSSING LLC	500 EAST BROWARD BLVD #1130 FORT LAUDERDALE, FL 33394
E	555 HUBBARD AVE PITTSFIELD, MA 01201	L140003110	CENTRO BRADLEY BERKSHIRE CROSSING LLC	500 EAST BROWARD BLVD #1130 FORT LAUDERDALE, FL 33394
F	555 HUBBARD AVE PITTSFIELD, MA 01201	L140003111	CENTRO BRADLEY BERKSHIRE CROSSING LLC	500 EAST BROWARD BLVD #1130 FORT LAUDERDALE, FL 33394
G	555 HUBBARD AVE PITTSFIELD, MA 01201	M130001101	CENTRO BRADLEY BERKSHIRE CROSSING LLC	500 EAST BROWARD BLVD #1130 FORT LAUDERDALE, FL 33394
H	555 HUBBARD AVE PITTSFIELD, MA 01201	M130001102	AGREE STORES LLC	PO BOX 460389 DEPT 125 HOUSTON, TX 77056
I	495 HUBBARD AVE PITTSFIELD, MA 01201	M130001211	AGREE EASTERN LLC	PO BOX 5230 WESTBOROUGH, MA 01581
J	HUBBARD AVE PITTSFIELD, MA 01201	M130002001	CRANE & CO INC	30 SOUTH ST DALTON, MA 01226
K	454 HUBBARD AVE PITTSFIELD, MA 01201	M130002002	RUSCETTA BRYAN	454 HUBBARD AVE PITTSFIELD, MA 01201
L	560 HUBBARD AVE PITTSFIELD, MA 01201	M140001001	LAWRENCE GREENBERG RESIDUARY TRUST	PO BOX 4269 SPRINGFIELD, MA 01101
M	556 HUBBARD AVE PITTSFIELD, MA 01201	M140001002	WENDYS PROPERTIES LLC	1 DAVE THOMAS BLVD DUBLIN, OH 43017
N	HUBBARD AVE PITTSFIELD, MA 01201	M140001003	CRANE & CO INC	30 SOUTH ST DALTON, MA 01226
O	HUBBARD AVE PITTSFIELD, MA 01201	M140001009	CRANE AND CO INC	30 SOUTH ST DALTON, MA 01226
P	1080 DALTON AVE PITTSFIELD, MA 01201	M140002001	CRANE TECHNICAL MATERIALS LLC	3460 PRESTON RIDGE RD ALPHARETTA, GA 30005
Q	1112 DALTON AVE PITTSFIELD, MA 01201	M140002002	WILCOX KAREN LYNN	1114 DALTON AVE PITTSFIELD, MA 01201
R	1051 DALTON AVE PITTSFIELD, MA 01201	M140003002	VINCENT KEVIN M	1051 DALTON AVE PITTSFIELD, MA 01201
S	1061 DALTON AVE PITTSFIELD, MA 01201	M140003003	LEE RONALD W	1061 DALTON AVE PITTSFIELD, MA 01201
T	1073 DALTON AVE PITTSFIELD, MA 01201	M140003004	GREEN DIANE K E/O	21 THIRD ST PITTSFIELD, MA 01201
U	1079 DALTON AVE PITTSFIELD, MA 01201	M140003005	VANDEUSEN RICHARD H & LINDA M	1079 DALTON AVE PITTSFIELD, MA 01201
V	DALTON AVE PITTSFIELD, MA 01201	M140003016	BERKSHIRE NATURAL	20 BANK ROW PITTSFIELD, MA 01201
W	DALTON AVE PITTSFIELD, MA 01201	M140003112	BERKSHIRE NATURAL	20 BANK ROW PITTSFIELD, MA 01201
X	DALTON AVE PITTSFIELD, MA 01201	M140003113	CRANE TECHNICAL MATERIALS INC	3460 PRESTON RIDGE RD ALPHARETTA, GA 30005

APPROVALS

INFORMATION TAKEN FROM MASSACUSETTS STATE GIS

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45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845
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SCALE: AS SHOWN | DESIGNED BY: JC | DRAWN BY: CC

COMMONWEALTH OF MASSACHUSETTS
DANIEL P. HAMM
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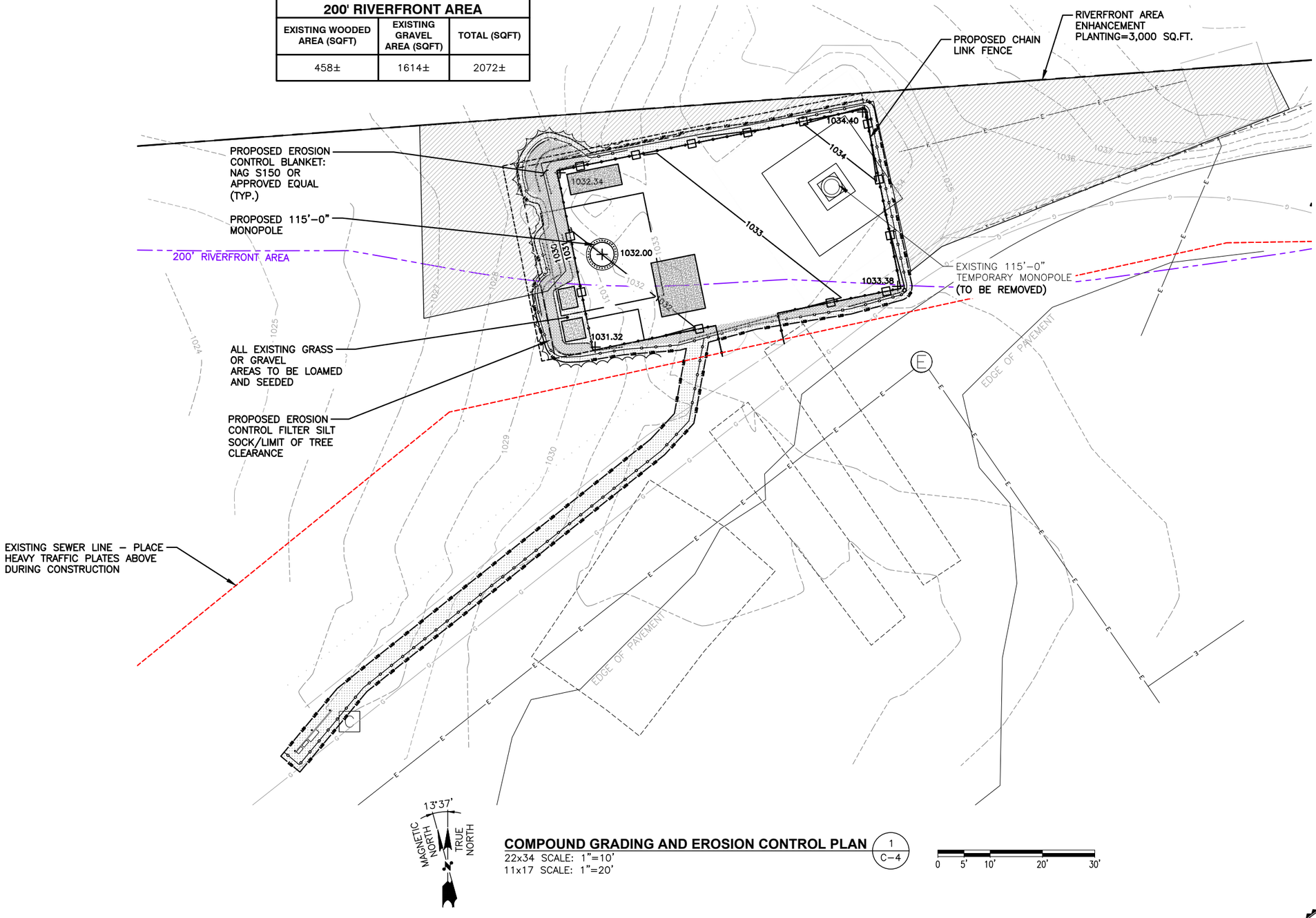
AT&T MOBILITY

RADIUS PLAN
(NSB)

SITE NUMBER	DRAWING NUMBER	REV
MA2974	C-3	7

LIMIT OF DISTURBANCE WITHIN 200' RIVERFRONT AREA		
EXISTING WOODED AREA (SQFT)	EXISTING GRAVEL AREA (SQFT)	TOTAL (SQFT)
458±	1614±	2072±



COMPOUND GRADING AND EROSION CONTROL PLAN (1 / C–4)
22x34 SCALE: 1"=10'
11x17 SCALE: 1"=20'

0 5' 10' 20' 30'

APPROVALS

INFORMATION TAKEN FROM MASSACUSETTS STATE GIS

LEGEND

- PROPERTY LINE – SUBJECT PARCEL
- ABUTTERS PROPERTY LINE
- EXISTING CONTOUR LINE
- EXISTING TREE LINE
- BARBED WIRE FENCE REMAINS
- OHW — OVERHEAD WIRE (TRANSMISSION LINE)
- EXISTING CHAIN LINK FENCE
- S — EXISTING UNDERGROUND SEWER LINE
- A–1 / A–2 — DELINEATED WETLAND LINE
- EXISTING BUILDING
- PROPOSED EQUIPMENT CONCRETE PAD
- CB — CATCH BASIN
- CONIFEROUS TREE
- DECIDUOUS TREE
- G — EXISTING GROUND WELL
- S — EXISTING SEWER MANHOLE
- STONEWALL
- W — WELL
- UTILITY POLE
- PROPOSED UTILITY POLE
- PROPOSED LIMIT OF TREE CLEARANCE
- 1086 — PROPOSED CONTOUR LINE
- PROPOSED CONSTRUCTION SILT SOCK
- LOD — LOD — LIMIT OF DISTURBANCE
- PROPOSED TOWER

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SCALE: AS SHOWN | DESIGNED BY: JC | DRAWN BY: CC

COMMONWEALTH OF MASSACHUSETTS
DANIEL P. HAMM
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REGISTERED PROFESSIONAL ENGINEER

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COMPOUND GRADING & EROSION CONTROL PLAN (NSB)

SITE NUMBER	DRAWING NUMBER	REV
MA2974	C–4	7

LEGEND

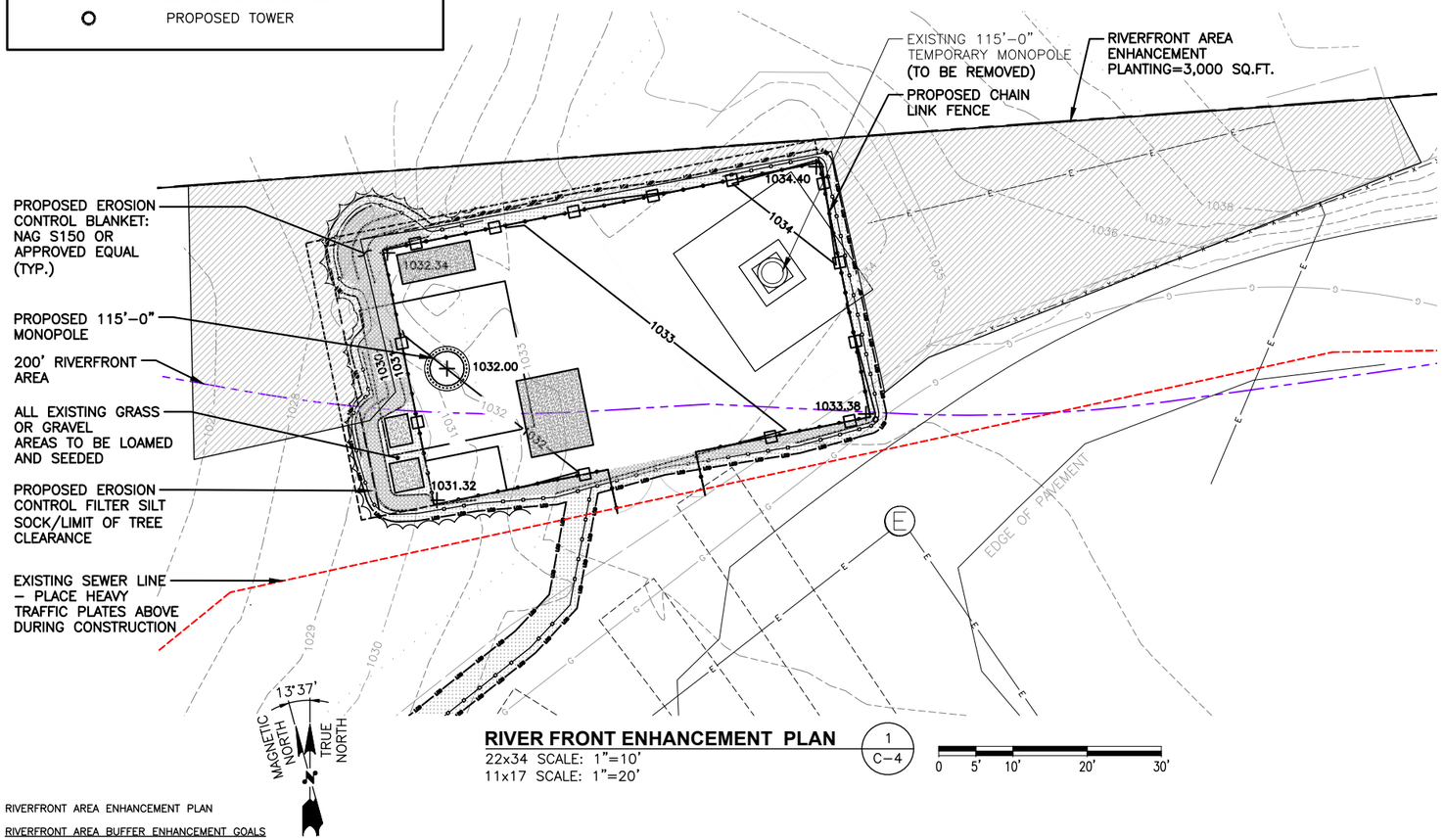
- PROPERTY LINE – SUBJECT PARCEL
- ABUTTERS PROPERTY LINE
- EXISTING CONTOUR LINE
- EXISTING TREE LINE
- BARBED WIRE FENCE REMAINS
- OHW — OVERHEAD WIRE (TRANSMISSION LINE)
- EXISTING CHAIN LINK FENCE
- S — EXISTING UNDERGROUND SEWER LINE
- PROPOSED EQUIPMENT CONCRETE PAD
- 1086 — PROPOSED CONTOUR LINE
- PROPOSED CONSTRUCTION SILT SOCK
- LOD — LOD — LIMIT OF DISTURBANCE
- PROPOSED TOWER

RIVERFRONT AREA ENHANCEMENT MITIGATION PLANTING SCHEDULE

QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING[3]
30	ARONIA MELANOCARPA	BLACK CHOKEBERRY	3-4'	20' ON CENTER
15	*BETULA LENTA*	BLACK BIRCH	4-6'	10' ON CENTER
30	*CORNUS RACEMOSA*	GRAY DOGWOOD	3-4'	5-10' ON CENTER
15	*PRUNUS VIRGINIANA*	CHOKECHERRY	4-6'	10' ON CENTER
30	*VIBURNUM LENTAGO*	NANNYBERRY	3-4'	20' ON CENTER

NOTES:

1. THE RIVERFRONT AREA ENHANCEMENT MITIGATION AREA WILL CONSIST OF REMOVAL OF NON-NATIVE INVASIVE SHRUB SPECIES AND REPLANTING WITH SELECT NATIVETREES AND SHRUBS.
2. SOIL EXPOSED AS A RESULT OF RESTORATION OF THIS EXISTING DEGRADED RIVERFRONT AREA WILL BE UNDER SOWN WITH THE NEW ENGLAND SEMI-SHADE GRASS AND FORBS MIX (NEW ENGLAND WETLAND PLANTS, INC., AMHERST, MA (413) 548-8000, OR APPROVED EQUIVALENT). THIS SEED MIX IS APPROPRIATE FOR A FOREST UNDERSTORY BY PROVIDING A PERMANENT COVER OF GRASSES AND FORBS TO PROVIDE BOTH GOOD EROSION CONTROL AND WILDLIFE HABITAT VALUE.
3. TREE AND SHRUB SPACING PROVIDED IS FOR GENERAL PURPOSES ONLY WITH ACTUAL LOCATIONS OF PLANTS TO BE ADJUSTED IN THE FIELD BY THE SUPERVISING WETLAND SCIENTIST WHO WILL ASSIST IN SELECTING PLANTING LOCATIONS AND SPACING TO SIMULATE NATURAL GROWTH PATTERNS.



RIVER FRONT ENHANCEMENT PLAN (1 / C-4)
22x34 SCALE: 1"=10'
11x17 SCALE: 1"=20'
0 5' 10' 20' 30'

RIVERFRONT AREA ENHANCEMENT PLAN

RIVERFRONT AREA BUFFER ENHANCEMENT GOALS

1) COMPENSATE FOR ACTIVITIES IN THE 200-FOOT RIVERFRONT AREA BY ENHANCING THE RIVERFRONT AREA (THE "MITIGATION PLAN" OR "MITIGATION AREA") THROUGH THE RESTORATION OF AN EXISTING DEGREDATED RIVERFRONT AREA BY PLANTING WITH NATIVE SPECIES TO IMPROVE FUNCTIONS, PARTICULARLY WILDLIFE HABITAT.

2) PLANT A ±3,000 SF AREA OF NATIVE TREES, SHRUBS, AND HERBACEOUS PLANTS THAT WILL CREATE A DIVERSITY OF NATIVE VEGETATIVE STRUCTURE TO SUPPORT A VARIETY OF FUNCTIONS AND VALUES INCLUDING IMPROVING WILDLIFE HABITAT WITHIN THE RIVERFRONT AREA.

GENERAL MITIGATION NOTES

1) THE PROJECT WETLAND SCIENTIST WITH EXPERTISE IN WETLAND MITIGATION AND REMOVAL OF INVASIVE PLANTS WILL SUPERVISE ALL ELEMENTS OF THE MITIGATION PLAN. DEAN GUSTAFSON, SENIOR WETLAND SCIENTIST, WITH ALL-POINTS TECHNOLOGY CORPORATION, P.C. WILL SERVE AS THE PROJECT WETLAND SCIENTIST; (860) 552-2033, DGUSTAFSON@ALLPOINTSTECH.COM.

1) ANY FOREIGN DEBRIS AND LITTER LOCATED WITHIN THE MITIGATION AREA SHALL BE REMOVED AND PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

2) PLASTIC MESH SLEEVES AND DEER REPELLANTS WILL BE USED AS NECESSARY TO PROTECT PLANTED SHRUBS FROM EXCESSIVE DEER DAMAGE. PLANTS WITH EXCESSIVE DAMAGE WILL BE REPLACED.

3) ANY EXPOSED SOILS RESULTING FROM THESE ACTIVITIES WILL BE MULCHED AND SEEDED PER THE RIVERFRONT AREA PLANTING SCHEDULE.

4) THE USE OF FERTILIZER AND PESTICIDES IN THE MITIGATION AREA SHOULD BE AVOIDED. ANY APPLICATIONS OF FERTILIZER AND PESTICIDES SHOULD FOLLOW INTEGRATED PEST MANAGEMENT PRINCIPALS TO LIMIT AND FOCUS APPLICATIONS. HERBICIDE USAGE WILL ONLY OCCUR AS NECESSARY FOR THE CONTROL OF INVASIVE SPECIES AS DETAILED IN THE FOLLOWING SECTION.

5) A PRE-CONSTRUCTION MEETING WILL BE HELD ON SITE BETWEEN THE PROJECT WETLAND SCIENTIST AND CONTRACTOR(S) PERFORMING ALL ASPECTS OF THE MITIGATION PLAN. THE PRIMARY INTENT OF THE PRE-CONSTRUCTION MEETING IS TO DISCUSS THE GOALS OF THE MITIGATION PLAN AND IMPLEMENTATION OF REQUIRED ELEMENTS NECESSARY TO ACHIEVE THESE GOALS AND SEQUENCE OF ELEMENTS. THE CITY OF PITTSFIELD CONSERVATION COMMISSION WILL BE PROVIDED NOTICE OF THIS MEETING A MINIMUM OF 3 BUSINESS DAYS PRIOR TO THE MEETING WITH AN INVITATION TO ATTEND.

6) THE CITY OF PITTSFIELD CONSERVATION COMMISSION WILL BE NOTIFIED IN ADVANCE OF ALL PHASES OF THE MITIGATION PROJECT.

INVASIVE SPECIES CONTROL AND PLANTING PLAN

1) TARGET INVASIVE WOODY SHRUB SPECIES PRESENT WITHIN OR ADJACENT TO THE CURRENTLY DEGRADED RIVERFRONT AREA, INCLUDING BUSH HONEYSUCKLE (LONICER SP.), MULTIFLORA ROSE (ROSE MULTIFLORA), JAPANESE BARBERRY (BERBERIS THUNBERGII), AND ASIATIC BITTERSWEET (CELASTRUS ORBICULATUS) SHALL BE REMOVED BY HAND CUTTING DOWN TO THE STEM BASE. CUT STEMS WILL BE TREATED WITH HERBICIDE AS SPECIFIED IN THE HERBICIDE USE NOTES. HERBICIDE APPLICATIONS WILL BE CONDUCTED BY A STATE-LICENSED INDIVIDUAL. THE CONTRACTOR IS RESPONSIBLE FOR SECURING NECESSARY LOCAL, STATE AND/OR FEDERAL PERMITS. REFER TO THE MASSACHUSETTS INVASIVE PLANT ADVISORY GROUP (MIPAG) INVASIVE PLANT MANAGEMENT GUIDE OR MOST RECENT GUIDANCE FOR FURTHER DETAILS AND GUIDANCE ON INVASIVE PLANT CONTROL AND REMOVAL RECOMMENDATIONS (HTTP://WWW.MASSNRC.ORG/MIPAG/).

2) THE PROJECT WETLAND SCIENTIST RESPONSIBLE FOR THIS MITIGATION PLAN DESIGN SHALL BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF SEVEN (7) BUSINESS DAYS PRIOR TO ANY PHASE OF THE MITIGATION PROJECT INCLUDING REMOVAL OF INVASIVE PLANTS AND PLANTING OF NATIVE SHRUBS TO MONITOR AND OVERSEE IMPLEMENTATION OF THE MITIGATION PLAN. PLEASE CONTACT DEAN GUSTAFSON, SENIOR WETLAND SCIENTIST, ALL-POINTS TECHNOLOGY CORP., P.C. AT (860) 552-2033 OR DGUSTAFSON@ALLPOINTSTECH.COM.

3) SOIL EXPOSED AS A RESULT OF INVASIVE SPECIES REMOVAL OR NATIVE SPECIES PLANTING ACTIVITIES WILL BE UNDER SOWN WITH NEW ENGLAND SEMI SHADE GRASS WITH FORB MIX (NEWP, OR APPROVED EQUIVALENT). THIS SEED MIX PROVIDES A PERMANENT CORE OF GRASSES, FORBS, WILDFLOWERS, LEGUMES, AND GRASSES TO PROVIDE BOTH GOOD EROSION CONTROL AND WILDLIFE HABITAT VALUE.

4) ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CAREFUL INSTALLATION, MAINTENANCE (INCLUDING WATERING), AND ESTABLISHMENT OF NATIVE SHRUB PLANT MATERIAL IN THE MITIGATION AREA. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR TO REMAIN ALI AND HEALTHY FOR A FULL TWELVE (12) MONTH PERIOD.

5) THE SPECIES, SIZE, AND QUANTITY OF THE PLANTINGS WILL FOLLOW THE RIVERFRONT AREA PLANTING SCHEDULE. THE PROJECT WETLAND SCIENTIST WILL INSPECT PLANT MATERIALS DELIVERED TO THE SITE TO ENSURE THAT THE SPECIMENS ARE HEALTHY, FREE FROM PESTS, AND SUITABLE FOR USE WITHIN THE WETLAND MITIGATION AREA. UNSUITABLE SPECIMENS WILL BE REJECTED AND REPLACED WITH SUITABLE SPECIMENS. THE PROJECT WETLAND SCIENTIST MUST APPROVE ANY PLANTING SUBSTITUTIONS. ALL WOODY PLANT STOCK WILL BE CONTAINER-GROWN OR BURLAP BALLED. PLANTING WITHIN THE MITIGATION AREA WILL CONFORM TO THE PLANS OR WILL BE COMPLETED IN ACCORDANCE WITH DIRECTIONS PROVIDED IN THE FIELD BY THE PROJECT WETLAND SCIENTIST. ONLY PLANT MATERIALS NATIVE TO THE REGION, INCLUDING CULTIVARS OF NATIVE SPECIES, WILL BE USED.

6) ALL PLANTINGS TO BE SPACED IN A RANDOM PATTERN WITH ASSISTANCE FROM THE PROJECT WETLAND SCIENTIST TO SIMULATE NATURAL GROWTH PATTERNS. PLANT QUANTITIES MAY BE ADJUSTED IN THE FIELD DEPENDING UPON AVAILABLE PLANTING SPACE PROVIDED FOLLOWING WOODY INVASIVE PLANT REMOVAL ACTIVITIES. THE PLANT QUANTITIES NOTED REPRESENT THE MINIMUM QUANTITIES REQUIRED.

7) UPON COMPLETION OF PLANTING, SHRUBS SHALL BE MULCHED ONE FOOT FROM THE BASE WITH A 2 TO 3-INCH THICK LAYER OF NATURAL MULCH MATERIAL OR OTHER NATURAL ORGANIC MATERIAL FREE OF WEED SEEDS, INVASIVE SPECIES AND ARTIFICIAL COLORING. THE SURROUNDING SEEDED AREAS SHALL RECEIVE A LIGHT APPLICATION OF ONE INCH OF WEED FREE STRAW.

HERBICIDE USE NOTES

8) ALL FEDERAL, STATE AND LOCAL REGULATIONS REGARDING HERBICIDE USE, APPLICATOR PERMIT AND POSTING REQUIREMENTS SHALL BE FOLLOWED.

9) ALL HERBICIDE APPLICATIONS SHALL BE PERFORMED BY A STATE LICENSED INDIVIDUAL UNDER THE SUPERVISION OF THE PROJECT WETLAND PROFESSIONAL.

10) CERTIFICATIONS, LICENSES AND PERMITS SHALL BE PRODUCED BY THE LICENSED APPLICATOR PRIOR TO THE START OF WORK.

11) ALL HERBICIDES SHALL BE MIXED WITH A DYE APPROVED BY U.S. EPA FOR USE AS AN HERBICIDE ADJUVANTS, SUCH AS TURFMARK DYE OR EQUIVALENT.

12) ONLY NONIONIC SURFACTANTS SHALL BE ADDED TO THE SPECIFIED HERBICIDES.

13) WOODY INVASIVE SHRUBS WITHIN THE MITIGATION AREA SHALL BE TREATED WITH A CUT-STUMP TREATMENT METHOD. SHRUBS SHALL BE CUT NEAR THE STUMP LEVEL AND STUMPS SHALL RECEIVE AN APPLICATION OF TRICLOPYR HERBICIDE (GARLON, ACCESS, OR APPROVED EQUIVALENT) USING A LOW-FLOW SPRAY OR HAND APPLICATOR METHOD (PAINT BRUSH, SPONGE, OR EQUIVALENT) WITHIN ONE HOUR OF CUTTING. HERBICIDE APPLICATIONS SHOULD AVOID OVERSPRAY IMPACTING THE ADJACENT FOLLY BROOK.

SUCCESS STANDARDS AND REPORTING

14) THE MITIGATION PLAN WILL BE ASSESSED USING THREE SUCCESS STANDARDS. EACH STANDARD IS DESCRIBED BELOW. SUCCESS STANDARD 1: AT LEAST 75% OF THE SURFACE AREA OF THE MITIGATION AREA SHOULD BE REESTABLISHED WITH NATIVE SPECIES. 2: VEGETATION SHOULD BE CHECKED TO ENSURE THAT NO MORE THAN 20% OF THE SURFACE AREA IS OCCUPIED BY TARGET INVASIVE WOODY SHRUB SPECIES. SUCCESS STANDARD 3: SOILS WITHIN THE MITIGATION AREA DISTURBED DURING IMPLEMENTATION OF THIS PLAN ARE PERMANENTLY STABILIZED WITH VEGETATION.

15) A REPORT WILL BE PREPARED DOCUMENTING IMPLEMENTATION OF THE MITIGATION PLAN, INCLUDING WOODY INVASIVE SHRUB TREATMENTS AND PLANTING OF NATIVE SPECIES.

16) MONITORING OF THE MITIGATION AREA WILL BE PERFORMED FOR A PERIOD OF TWO YEARS STARTING THE FIRST FULL GROWING FOLLOWING COMPLETION OF THE INVASIVE PLANT TREATMENT AND NATIVE PLANTING ACTIVITIES. MONITORING WILL OCCUR TWICE EACH GROWING SEASON, ONCE IN THE SPRING AND AGAIN IN THE LATE SUMMER/EARLY FALL. AN ANNUAL MONITORING REPORT WILL PROVIDE AN ASSESSMENT OF CONDITIONS OF THE MITIGATION AREA, MEASURING SUCCESS AGAINST THE THREE SUCCESS STANDARDS. THE MONITORING REPORT WILL INCLUDE REPRESENTATIVE PHOTOGAPHS, THE PERCENT SURVIVAL OF PLANTED TREES, SHRUBS, AND HERBACEOUS PLANTS, AND WILL ALSO INCLUDE OBSERVATIONS OF VEGETATION HEALTH AND DEVELOPMENT ALONG WITH ANY WILDLIFE OBSERVATIONS. THE REPORT WILL ALSO DOCUMENT CORRECTIVE ACTIONS TAKEN TO ADDRESS NON-COMPLIANCE WITH THE SUCCESS STANDARDS. IF FOLLOWING COMPLETION OF THIS MONITORING PERIOD NOT ALL OF THE SUCCESS STANDARDS ARE SATISFIED, RECOMMENDATIONS FOR ADDITIONAL MONITORING/CORRECTIVE ACTIONS WILL BE INCLUDED IN THE FINAL REPORT.

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SAI
12 INDUSTRIAL WAY
SALEM, NH 03079

SITE NUMBER: MA2974
SITE NAME: PITTSFIELD HUBBARD AVE

500 HUBBARD AVENUE
PITTSFIELD, MA 01201
BERKSHIRE COUNTY

AT&T
492 OLD CONNECTICUT PATH SUITE #210
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
7	08/16/24	ISSUED FOR PERMITTING	CJ	JC	DTH
6	05/16/24	ISSUED FOR PERMITTING	CC	JC	DTH
5	04/25/24	ISSUED FOR REVIEW	CJ	JC	DTH
4	02/16/24	ISSUED FOR REVIEW	CC	JC	DTH
3	01/05/24	ISSUED FOR REVIEW	CC	JC	DTH

SCALE: AS SHOWN | DESIGNED BY: JC | DRAWN BY: CC

COMMONWEALTH OF MASSACHUSETTS — DANIEL P. HAMM — CIVIL — No. 40720 — REGISTERED PROFESSIONAL ENGINEER

AT&T MOBILITY

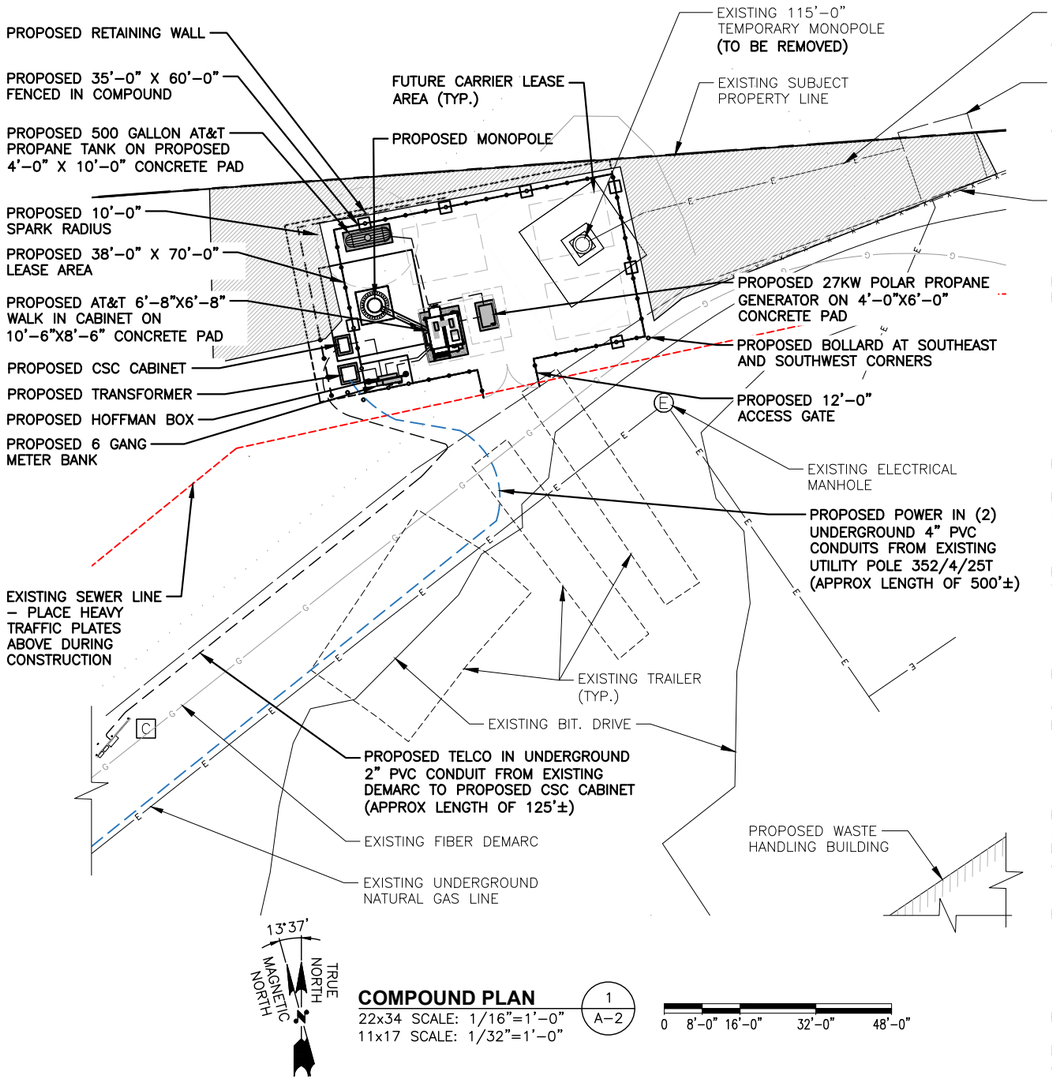
RIVERFRONT AREA ENHANCEMENT PLAN (NSB)

SITE NUMBER	DRAWING NUMBER	REV
MA2974	C-5	7

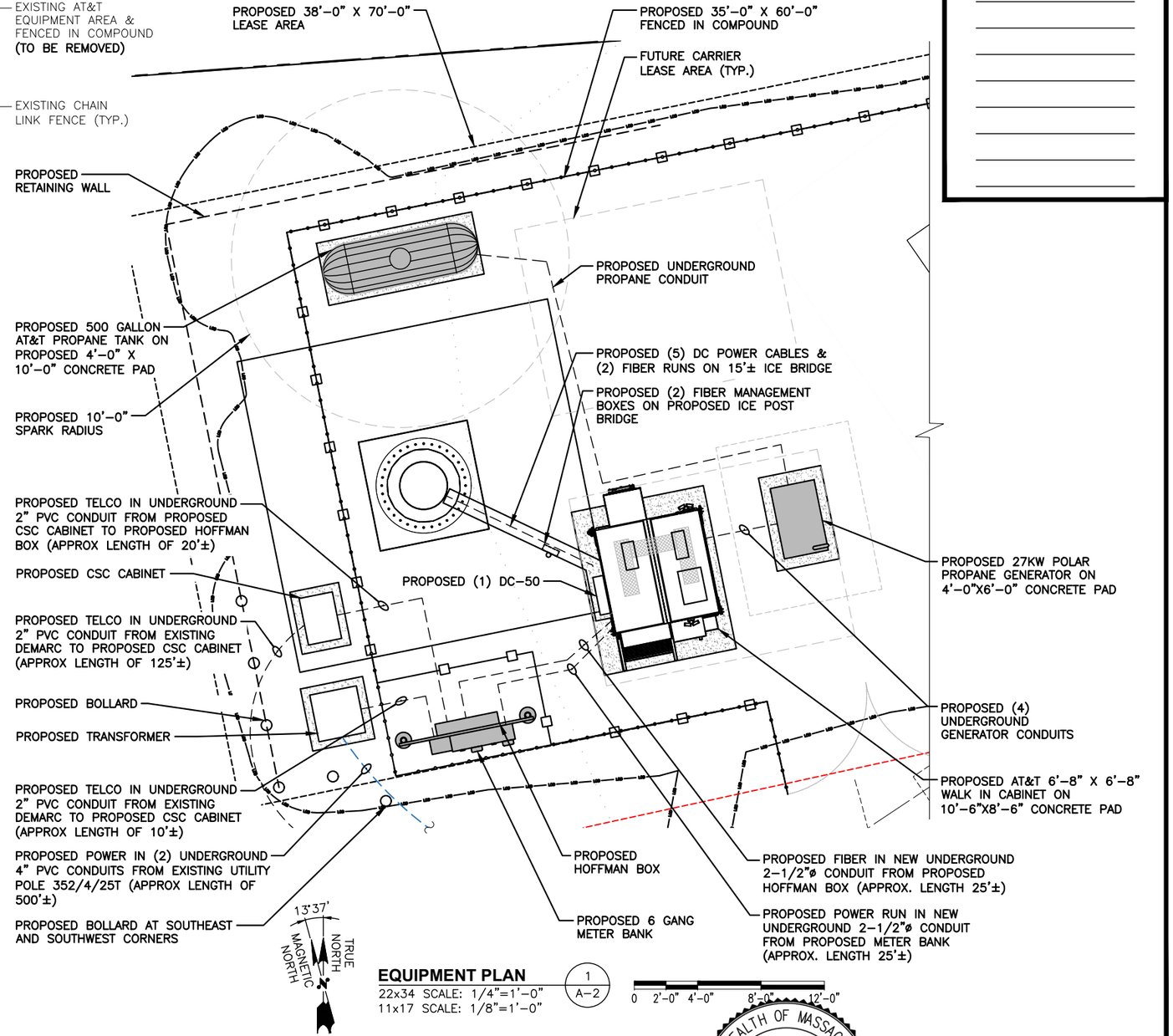
NOTE:

REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

APPROVALS



COMPOUND PLAN 1 A–2
22x34 SCALE: 1/16"=1'–0"
11x17 SCALE: 1/32"=1'–0"



EQUIPMENT PLAN 1 A–2
22x34 SCALE: 1/4"=1'–0"
11x17 SCALE: 1/8"=1'–0"

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FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
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6	05/16/24	ISSUED FOR PERMITTING	CC	JC	DJH
5	04/25/24	ISSUED FOR REVIEW	CJ	JC	DJH
4	02/16/24	ISSUED FOR REVIEW	CC	JC	DJH
3	01/05/24	ISSUED FOR REVIEW	CC	JC	DJH

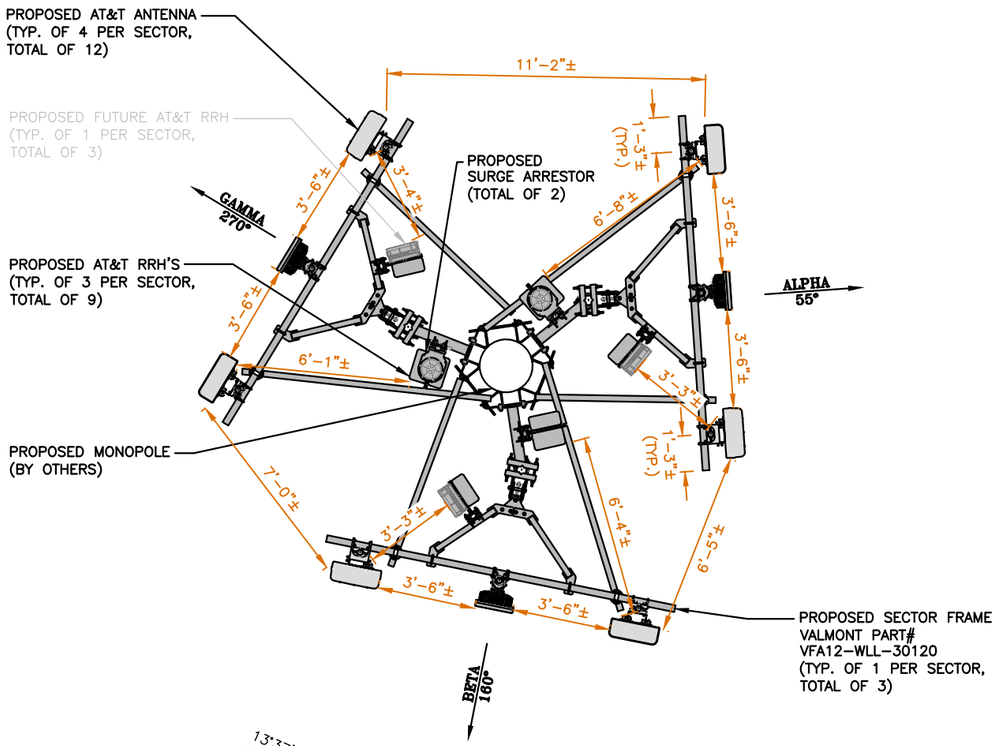
SCALE: AS SHOWN | DESIGNED BY: JC | DRAWN BY: CC

COMMONWEALTH OF MASSACHUSETTS
DANIEL P. HAMM
CIVIL
No. 40720
REGISTERED PROFESSIONAL ENGINEER

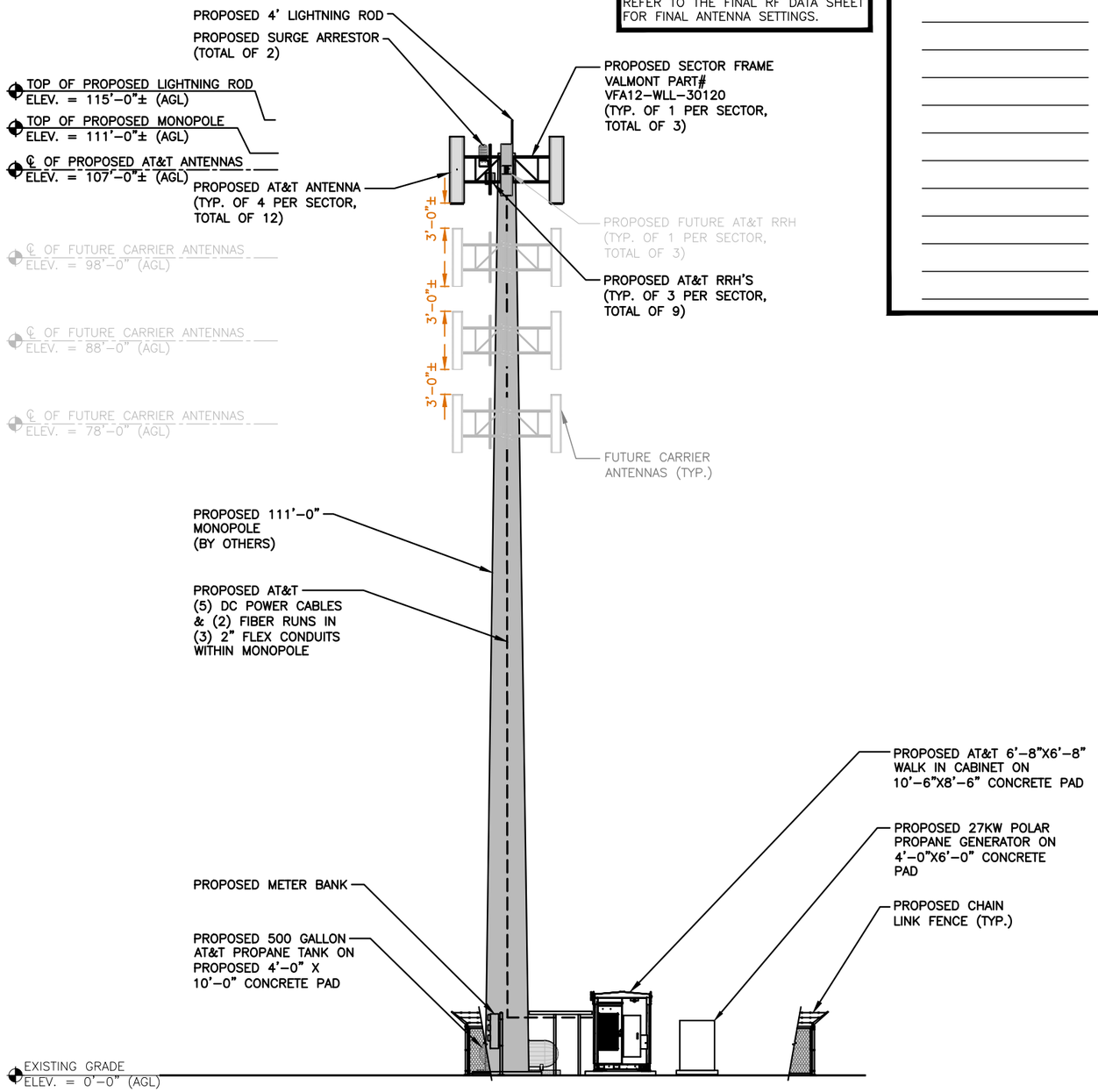
AT&T MOBILITY

COMPOUND & EQUIPMENT PLAN (NSB)

SITE NUMBER	DRAWING NUMBER	REV
MA2974	A–1	7



PROPOSED ANTENNA LAYOUT (1 / A-3)
SCALE: N.T.S



ELEVATION (2 / A-3)
22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

0 4'-0" 8'-0" 16'-0" 24'-0"

NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

APPROVALS

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AT&T MOBILITY

ANTENNA LAYOUT & ELEVATION
(NSB)

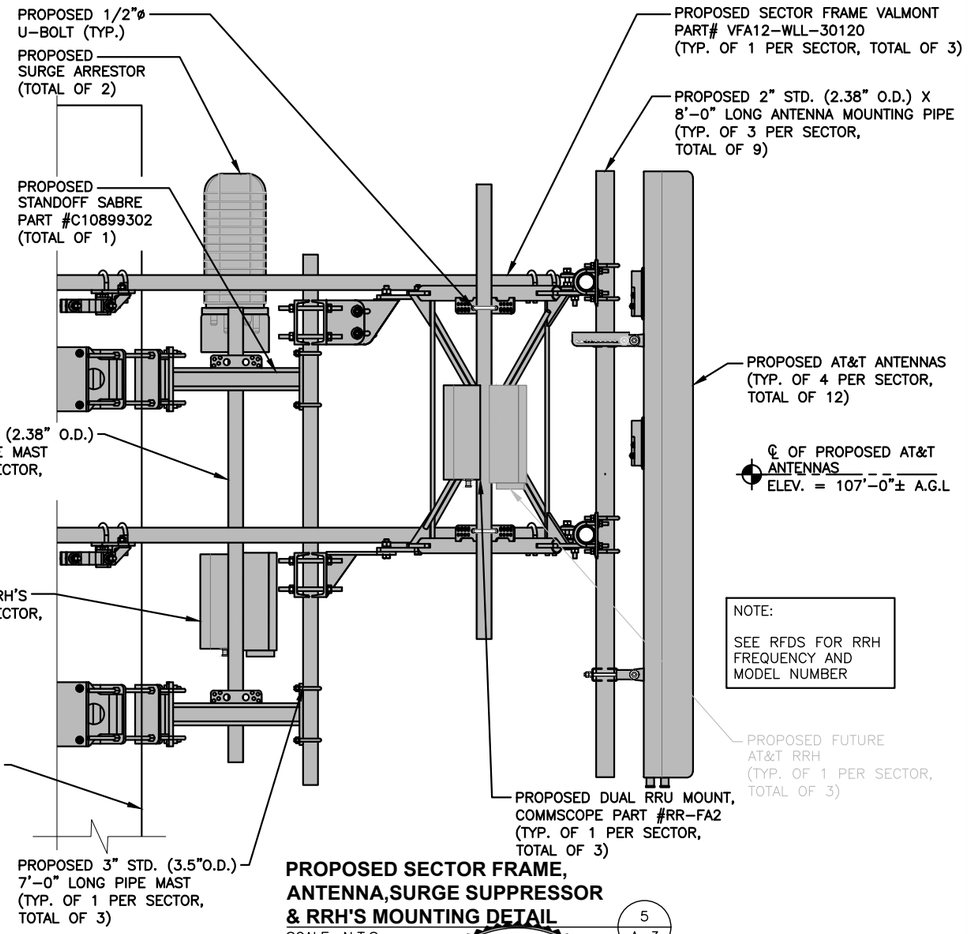
SITE NUMBER	DRAWING NUMBER	REV
MA2974	A-2	7

ANTENNA SCHEDULE

SECTOR	EXISTING/ PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA ℄ HEIGHT	AZIMUTH	TMA/ DIPLEXER	RRU	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	PROPOSED	LTE B14/PCS/AWS	TPA65R-BU8DA-K	96.0X21X7.8	107'-0"	55°	–	(P) (1) 4478 B14 (P) (1) 4890 B26/B66	18.1X13.4X8.3 15.1X17.5X6.9	(P) (5) DC POWER CABLES & (2) FIBER RUNS	(P) (2) DC9-48-60-24-8C-EV
A2	PROPOSED	–	AIR 6419 B77D AIR 6449 B77G	30.4X15.9X8.1 28X15.7X6.7	107'-0"	55°	–	–	–		
A3	PROPOSED	LTE 700 BC/850/WCS	OPA65R-BU8DA	96.0X21X7.8	107'-0"	55°	–	(P) (1) 4490 B5/B12 (P) (F) (1) 4415 B30	15.1X17.5X6.8 16.5X13.4X5.9		
B1	PROPOSED	LTE B14/PCS/AWS	TPA65R-BU8DA-K	96.0X21X7.8	107'-0"	160°	–	(P) (1) 4478 B14 (P) (1) 4890 B26/B66	18.1X13.4X8.3 15.1X17.5X6.9		
B2	PROPOSED	–	AIR 6419 B77D AIR 6449 B77G	30.4X15.9X8.1 28X15.7X6.7	107'-0"	160°	–	–	–		
B3	PROPOSED	LTE 700 BC/850/WCS	OPA65R-BU8DA	96.0X21X7.8	107'-0"	160°	–	(P) (1) 4490 B5/B12 (P) (F) (1) 4415 B30	15.1X17.5X6.8 16.5X13.4X5.9		
C1	PROPOSED	LTE B14/PCS/AWS	TPA65R-BU8DA-K	96.0X21X7.8	107'-0"	270°	–	(P) (1) 4478 B14 (P) (1) 4890 B26/B66	18.1X13.4X8.3 15.1X17.5X6.9		
C2	PROPOSED	–	AIR 6419 B77D AIR 6449 B77G	30.4X15.9X8.1 28X15.7X6.7	107'-0"	270°	–	–	–		
C3	PROPOSED	LTE 700 BC/850/WCS	OPA65R-BU8DA	96.0X21X7.8	107'-0"	270°	–	(P) (1) 4490 B5/B12 (P) (F) (1) 4415 B30	15.1X17.5X6.8 16.5X13.4X5.9		

FINAL ANTENNA SCHEDULE (1 / A-3)
SCALE: N.T.S

APPROVALS



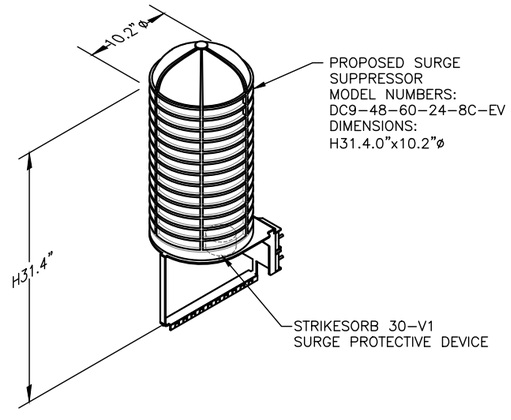
PROPOSED SECTOR FRAME, ANTENNA,SURGE SUPPRESSOR & RRH'S MOUNTING DETAIL (5 / A-3)
SCALE: N.T.S

NOTE:
SEE RFDS FOR RRH FREQUENCY AND MODEL NUMBER

PROPOSED RRU REFER TO THE FINAL RFDS AND CHART FOR QUANTITY, MODEL AND DIMENSIONS

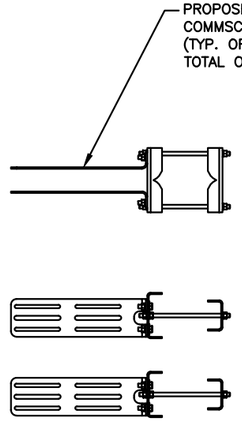
NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

PROPOSED RRUS DETAIL (2 / A-3)
SCALE: N.T.S



NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

DC SURGE SUPPRESSOR DETAIL (3 / A-3)
SCALE: N.T.S



BACK TO BACK RRU MOUNT DETAIL (4 / A-3)
SCALE: N.T.S

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SCALE: AS SHOWN | DESIGNED BY: JC | DRAWN BY: CC

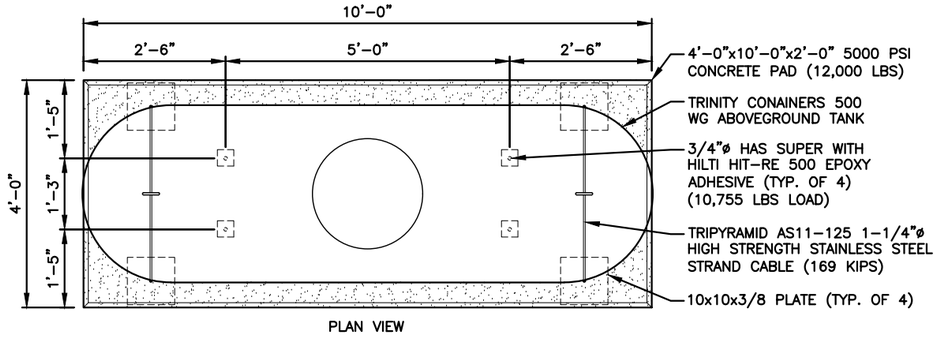
COMMONWEALTH OF MASSACHUSETTS
DANIEL P. HAMM
CIVIL
No. 40720
REGISTERED PROFESSIONAL ENGINEER

AT&T MOBILITY

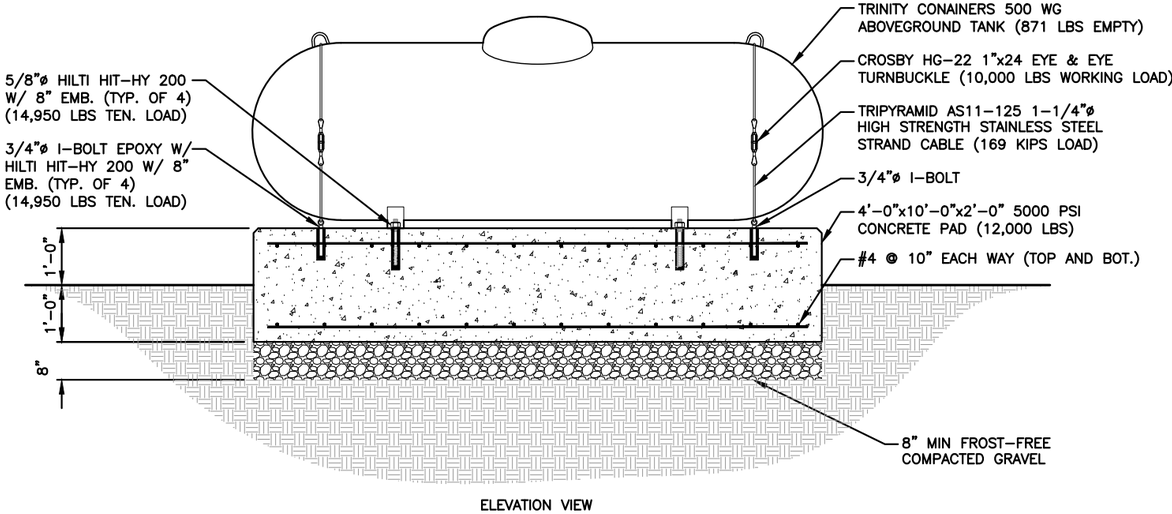
DETAILS
(NSB)

SITE NUMBER	DRAWING NUMBER	REV
MA2974	A-3	7

APPROVALS

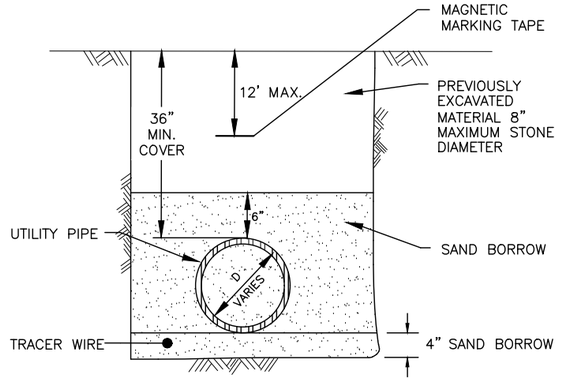


PLAN VIEW



ELEVATION VIEW

PROPANE TANK MOUNTING (1 / A-4)
22x34 SCALE: N.T.S



NOTES: 1 COMPACT ALL BACKFILL MATERIAL WITH VIBRATORY PLATE EQUIPMENT (MINIMUM TWO PASSES) TO A MINIMUM DENSITY OF 95 PERCENT OF THE STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D698. 2 PLACE BACKFILL MATERIALS IN MAXIMUM ONE FOOT LIFTS.

GAS PIPING TRENCH SECTION (2 / A-4)
SCALE: N.T.S

PROPOSED 27KW POLAR PROPANE GENERATOR (3 / A-4)
SCALE: N.T.S

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TEP OPCO, LLC
45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845
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492 OLD CONNECTICUT PATH SUITE #210
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
7	08/16/24	ISSUED FOR PERMITTING	CJ	JC	DJH
6	05/16/24	ISSUED FOR PERMITTING	CC	JC	DJH
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4	02/16/24	ISSUED FOR REVIEW	CC	JC	DJH
3	01/05/24	ISSUED FOR REVIEW	CC	JC	DJH

SCALE: AS SHOWN | DESIGNED BY: JC | DRAWN BY: CC

COMMONWEALTH OF MASSACHUSETTS
DANIEL P. HAMM
CIVIL
No. 40720
REGISTERED PROFESSIONAL ENGINEER

AT&T MOBILITY

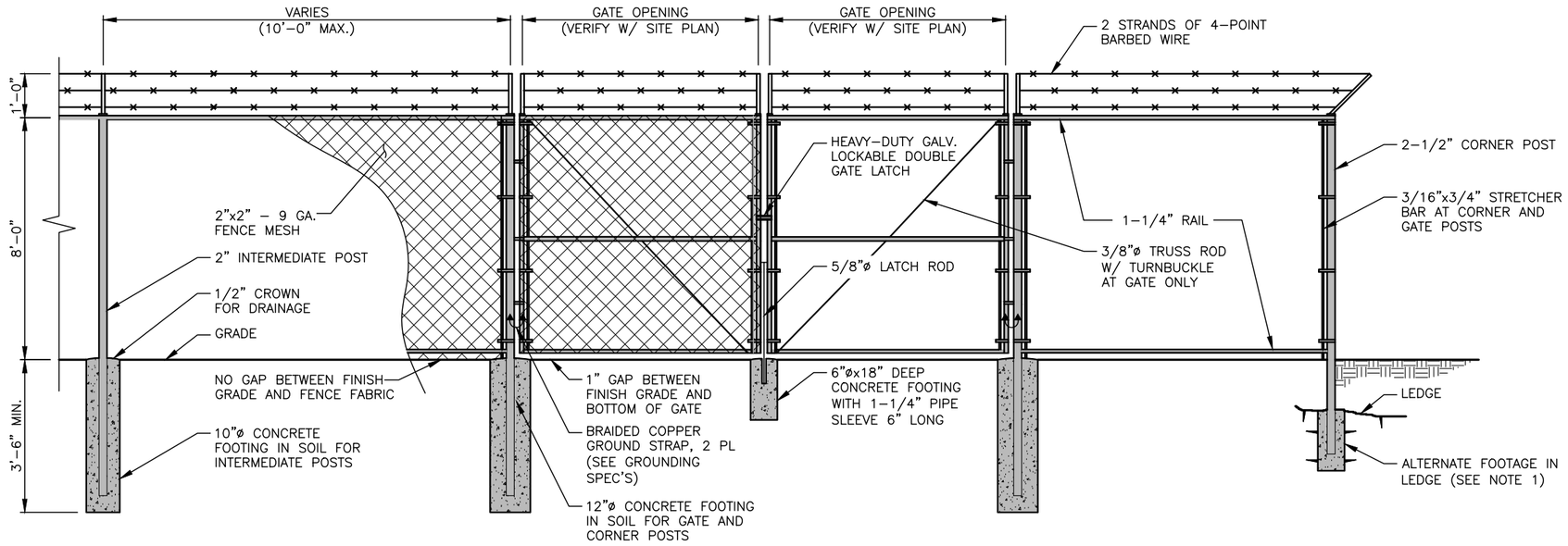
PROPANE TANK DETAILS
(NSB)

SITE NUMBER	DRAWING NUMBER	REV
MA2974	A-4	7

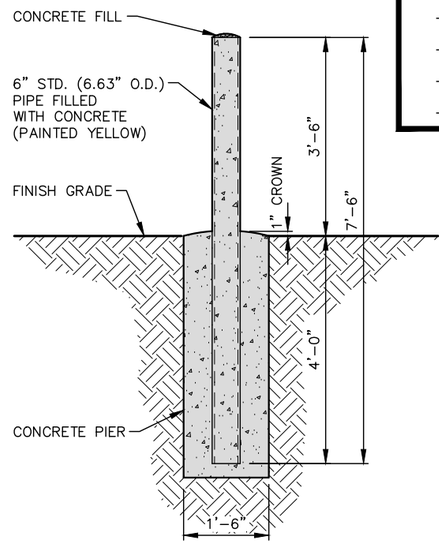
FENCE NOTES

1. ALTERNATE FOOTINGS FOR ALL FENCE POSTS IN LEDGE: IF LEDGE IS ENCOUNTERED AT GRADE, OR AT A DEPTH SHALLOWER THAN 3'–6", CORE DRILL AN 8" DIA HOLE 18" INTO THE LEDGE. CENTER POST IN THE HOLE AND FILL WITH CONCRETE OR GROUT. IF LEDGE IS BELOW FINISH GRADE, COAT BACKFILLED SECTION OF POST WITH COAL TAR, AND BACKFILL WITH WELL–DRAINING GRAVEL.

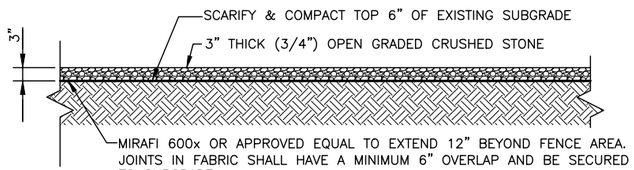
2. ATTACH EACH GATE WITH 1–1/2 PAIR OF NON–LIFT–OFF TYPE, MALLEABLE IRON OR FORGING, PIN–TYPE HINGES. ASSEMBLIES SHALL ALLOW FOR 180° OF GATE TRAVEL.



CHAINLINK FENCE DETAIL 1 / A–5
SCALE: N.T.S



CONCRETE FILLED BOLLARD 2 / A–5
22x34 SCALE: N.T.S



COMPOUND SURFACE DETAIL 3 / A–5
22x34 SCALE: 1"=1'–0"
11x17 SCALE: 1/2"=1'–0"

APPROVALS

TEP NORTHEAST
TEP OPCO, LLC
45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845
TEL: (978) 557-5553

SAI
12 INDUSTRIAL WAY
SALEM, NH 03079

SITE NUMBER: MA2974
SITE NAME: PITTSFIELD HUBBARD AVE

500 HUBBARD AVENUE
PITTSFIELD, MA 01201
BERKSHIRE COUNTY

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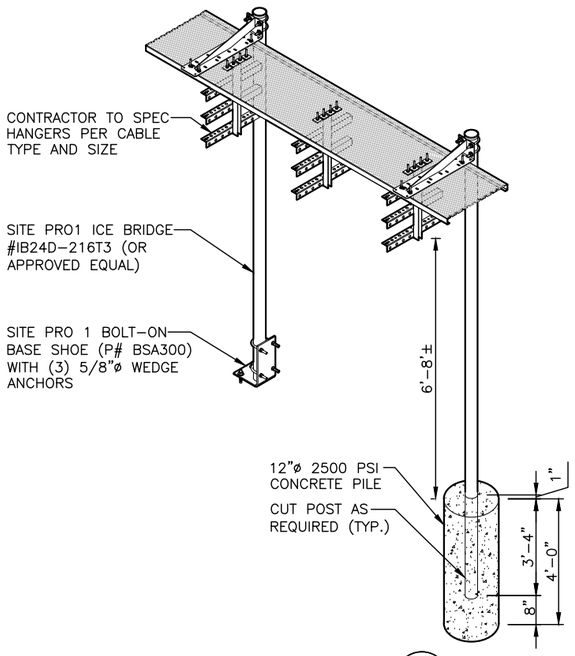
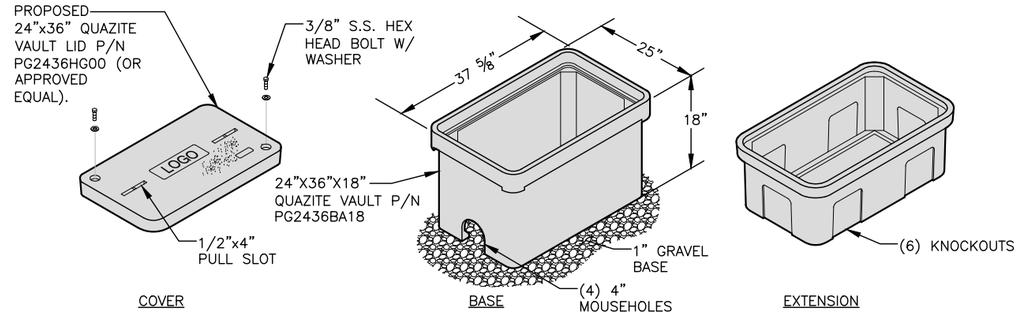


CABLE BRIDGE DETAIL 1 / A-6
22x34 SCALE: N.T.S



NOTE:
1. THIS INFORMATION MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION. APPROPRIATE MODIFICATION MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC APPLICATION. SEE SPECIFICATION PROVIDED BY ELECTRICAL DESIGNER FOR FURTHER DETAIL AND INSTALLATION.
2. PROVIDE STANDARD HANDHOLE. COVER COLOR SHALL BE AS SPECIFIED BY THE NIH.
3. PROVIDE 25mm (1") X 10mm (3/8") BELL PULL SLOT FOR EACH HANDHOLE.
4. COVER, RING AND BOX SHALL BE MADE OF SAME MATERIAL.
5. PROVIDE IMPRINTED LOGO TO MATCH.

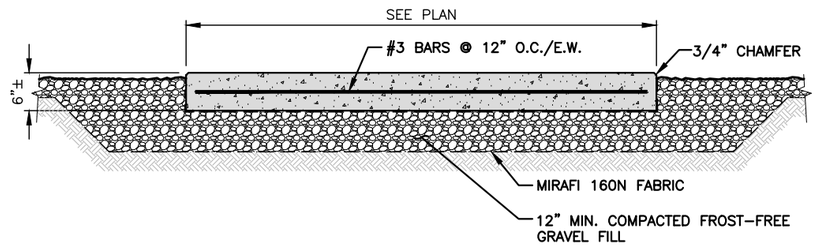
FOR TELCO & POWER (IF NEEDED)

HANDHOLE DETAIL 2 / A-6
SCALE: N.T.S

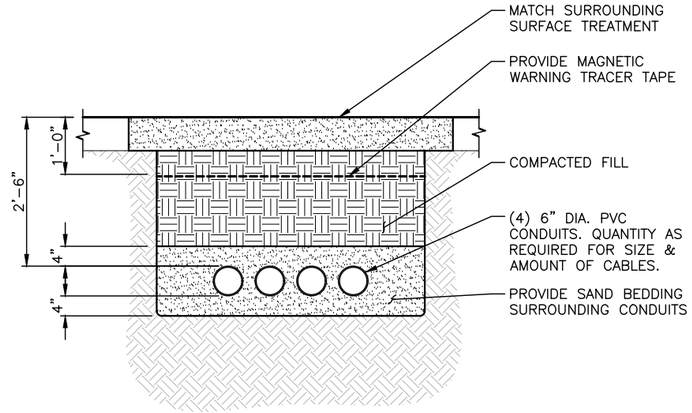
APPROVALS

FOUNDATION NOTES & CONCRETE SPECIFICATIONS:

1. FOUNDATION AREA SHALL BE EXCAVATED TO THE DEPTH AND DIMENSIONS SHOWN ON THE PLANS. EXISTING LEDGE AND ALL OTHER EXISTING UNSUITABLE MATERIAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE. THE SUBGRADE SHALL BE ROLLED WITH A 1-TON, VIBRATORY, WALK-BEHIND ROLLER AT A SPEED OF LESS THAN 2 FPS, 6 PASSES MINIMUM, TO PROVIDE UNYIELDING SURFACE.
2. UNDERCUT SOFT OR "WEAVING" AREAS A MINIMUM OF 12 INCHES DEEP. BACKFILL UNDERCUT AREA WITH FILL MEETING THE SPECIFICATIONS OF STRUCTURAL FILL.
3. CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c)=4000 psi. CONCRETE TO BE AIR ENTRAINED, DESIRED AIR CONTENT TO BE 6% (PLUS OR MINUS 2%)
4. REINFORCING BAR TO BE ASTM A615 GRADE 60.
5. WELDED WIRE FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A185. WIRES FOR FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A82.
6. COORDINATE WITH MANUFACTURER OF PREFABRICATED SHELTER FOR LOCATION OF ATTACHMENTS TO BASE SLAB.
7. ALL REINFORCING TO HAVE MINIMUM CONCRETE COVER PER ACI SPECIFICATIONS.
8. ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO LATEST EDITION OF ACI 318 AND APPLICABLE STATE BUILDING CODE.



CONCRETE PAD DETAIL 3 / A-6
22x34 SCALE: N.T.S



BURIED CONDUIT DETAIL 4 / A-6
SCALE: N.T.S

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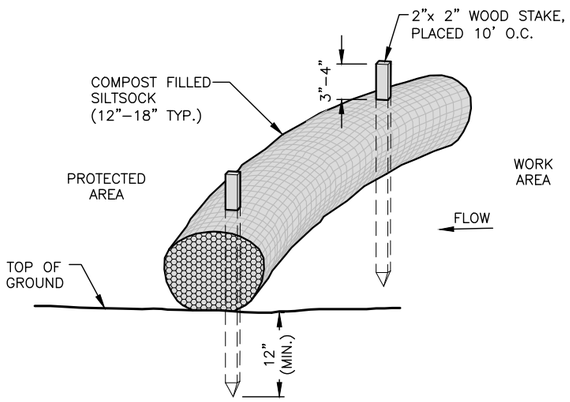
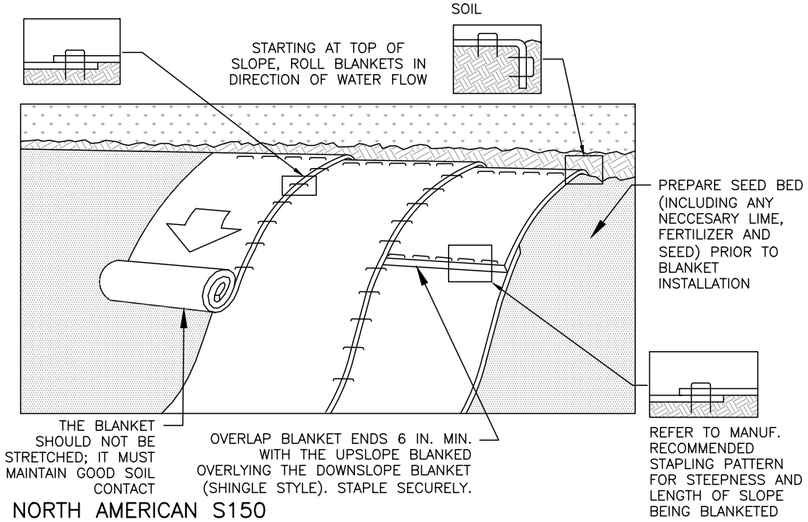
COMPOUND DETAILS
(NSB)

SITE NUMBER	DRAWING NUMBER	REV
MA2974	A-6	7



NOTES:
1. SILTSOCK SHALL BE FILTREXX SILTSOXX, OR APPROVED EQUAL.
2. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
3. SILTSOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
4. SEE SPECIFICATIONS FOR SOCK SIZE, AND COMPOST FILL, REQUIREMENTS.

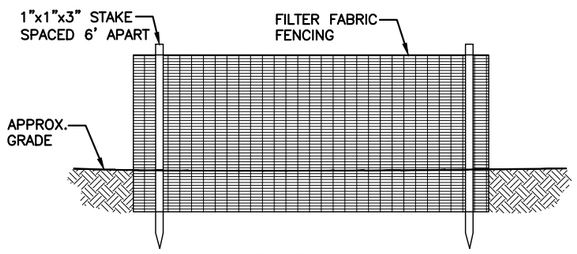
SILT SOCK DETAIL (1 / A-7)
SCALE: N.T.S



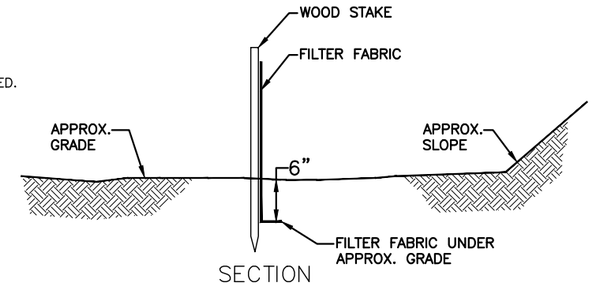
EROSION CONTROL BLANKET (3 / A-7)
SCALE: N.T.S

LANDSCAPE NOTES:

1. TREE SPECIES NAME: THUJA PLICATA "GREEN GIANT"
2. LANDSCAPE TREES SHALL BE A MINIMUM OF 6'-0" IN HEIGHT WHEN PLANTED.
3. TREE SPACING SHALL BE A MINIMUM OF 4' CENTER TO CENTER.



SILT FENCE DETAIL (2 / A-7)
SCALE: N.T.S



SEQUENCE OF CONSTRUCTION

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPS), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPS IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECPS EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPS WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL AND FOLD THE REMAINING 12" PORTION OF RECPS BACK OVER THE SEED AND COMPACTED SOIL. SECURE RECPS OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECPS.
3. ROLL THE RECPS DOWN HORIZONTALLY ACROSS THE SLOPE. RECPS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL RECPS MUST BE STAPLED WITH APPROXIMATELY 2" - 5" OVERLAP DEPENDING ON THE RECPS TYPE.
5. CONSECUTIVE RECPS SPLICED DOWN THE SLOPE MUST BE END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECPS WIDTH.

NOTES:

1. PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
2. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.
3. BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
4. THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

CONSTRUCTION SPECIFICATION - SILT FENCE:

1. THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
2. THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
3. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
4. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION AND BOTTOM.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED.
6. FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
7. MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

MAINTENANCE - SILT FENCE

1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACHED APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.
5. REMOVE ALL SEDIMENTATION CONTROLS AFTER SOIL IS STABILIZED.

EROSION CONTROL MEASURES:

1. DISTURBED AREAS SHALL BE KEPT TO THE MINIMUM AREA NECESSARY TO CONSTRUCT THE ROADWAYS AND ASSOCIATED DRAINAGE FACILITIES.
2. SILT AND SEDIMENT TRAPS SHALL BE INSTALLED AS REQUIRED. BARRIERS AND TRAPS ARE TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE A HEALTHY STAND OF GRASS.
3. MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE FROM NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY. NO SALT HAY SHALL BE USED.
4. FILL MATERIAL SHALL BE FREE FROM STUMPS, WOOD, ROOTS, ETC.
5. STOCKPILED MATERIALS SHALL BE PLACED ONLY IN AREAS SHOWN ON THE PLANS. STOCKPILES SHALL BE PROTECTED BY SILTATION FENCE AND SEEDED TO PREVENT EROSION. THESE MEASURES SHALL REMAIN UNTIL ALL MATERIAL HAS BEEN PLACED OR DISPOSED OFF SITE.
6. ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED. A MINIMUM OF 4 INCHES OF LOAM SHALL BE INSTALLED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA.
7. APPLICATION OF GRASS SEED, FERTILIZERS AND MULCH SHALL BE ACCOMPLISHED BY BROADCAST SEEDING OR HYDROSEEDING AT THE RATES OUTLINED BELOW:

LIMESTONE:	75-100 LBS./1,000 SQ FT	
FERTILIZER:	RATE RECOMMENDED BY MANUFACTURER	
MULCH:	HAY MULCH APPROXIMATELY 3 TON/ACRE UNLESS EROSION CONTROL MATTING IS USED	
SEED MIX:	(SLOPES LESS THAN 4:1)	LBS./ACRE
	CREEPING RED FESCUE	20
	TALL FESCUE	20
	REDTOP	2
		42
	(SLOPES GREATER THAN 4:1)	LBS./ACRE
	CREEPING RED FESCUE	20
	TALL FESCUE	20
	BIRDSFOOT TREEFOIL	8
		48

8. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED.
9. ALL CATCH BASIN INLETS WILL BE PROTECTED WITH LOW POINT SEDIMENTATION BARRIER.
10. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AND CLEANED AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
11. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA.
12. NO DISCHARGE SHALL BE DIRECTED TOWARDS ANY PROPOSED DITCHES, SWALES, OR PONDS UNTIL THEY HAVE BEEN PROPERLY STABILIZED.

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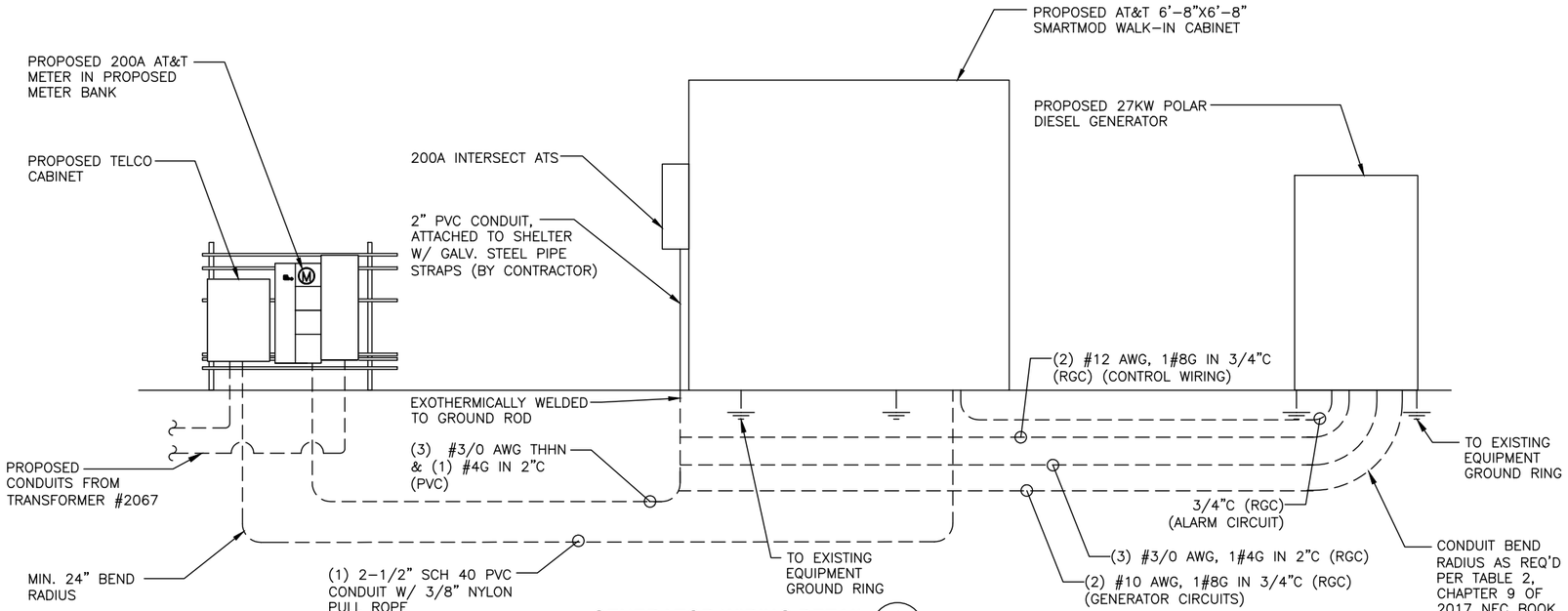
SILT SOCK DETAILS (NSB)

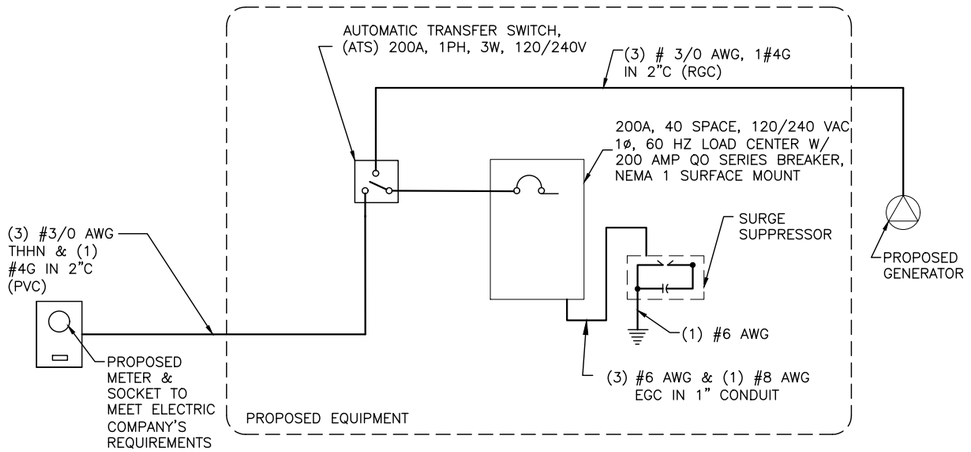
SITE NUMBER	DRAWING NUMBER	REV
MA2974	A-7	7

NOTES:

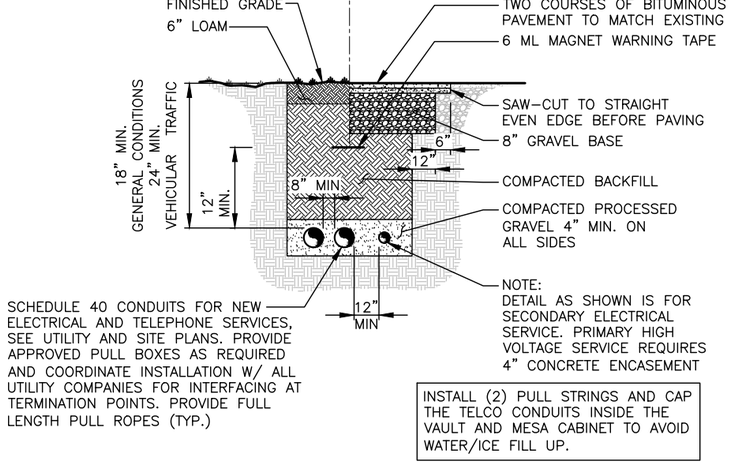
1. GROUND [ATS] TO EXISTING GROUND BAR
2. GROUND GENERATOR TO EXISTING GROUND RING WITH (2) #2 AWG GROUND WIRES.



GENERATOR WIRING DETAIL 1 / E-1
SCALE: N.T.S



TYPICAL ONE-LINE DIAGRAM 2 / E-1
SCALE: N.T.S



BURIED CONDUIT DETAIL 3 / E-1
SCALE: N.T.S

ELECTRICAL LEGEND & ABBREVIATIONS

	NEW PANEL BOARD, SURFACE MOUNTED
	EXISTING PANEL BOARD, SURFACE MOUNTED
T	DRY TYPE TRANSFORMER
M	METER
	CIRCUIT BREAKER
	NON-FUSIBLE DISCONNECT SWITCH, MOUNTED 54" A.F.F.
F	FUSIBLE DISCONNECT SWITCH, MOUNTED 54"A.F.F.
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR WITH BUILT-IN FUSES, SURFACE MOUNTED
	DUPLEX OUTLET, SURFACE MOUNTED, 20 AMPS, 125 VOLTS, SINGLE PHASE
J	JUNCTION BOX, SURFACE MOUNTED 18" A.F.F.
	EXPOSED WIRING
	HOME RUNS, MINIMUM 2#10 + 1#8G IN 3/4" CONDUIT U.O.N.
A.F.F.	ABOVE FINISHED FLOOR
U.O.N.	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
GFI	GROUND FAULT INTERRUPTER
A	AMPERE
V	VOLT
KWH	KILOWATT - HOUR
C	CONDUIT
PVC	POLYVINYL CHLORIDE
HZ	HERTZ
PH, ø	PHASE
W	WATTS
NEC	NATIONAL ELECTRIC CODE
PPC	POWER PROTECTION CABINET
UL	UNDERWRITER LABORATORIES
PTS	POWER TRANSFER SWITCH
QO	QUICK OPEN
GRC	GALVANIZED RIGID CONDUIT
G	GROUND
	GROUND
MGB	MASTER GROUND BAR — ○ MECHANICAL CONNECTION ● CADWELD CONNECTION
EGB	EQUIPMENT GROUND BAR
G	GROUND COPPER WIRE, SIZE AS NOTED
	EXPOSED WIRING
	COAXIAL CABLE
	5/8"x8" COPPER CLAD STAINLESS STEEL GROUND ROD
	● EXOTHERMIC (CAD WELD) OR ○ MECHANICAL (COMPRESSION TYPE) CONNECTION
PF	POWER FACTOR

ELECTRICAL AND GROUNDING NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
3. THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
5. 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.
6. BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
7. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THININSULATION.
8. 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.
9. 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.
10. 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.
11. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
12. PPC SUPPLIED BY PROJECT OWNER.
13. GROUNDING SHALL COMPLY WITH NEC ART. 250.
14. GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
15. USE #6 AWG COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 AWG SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
16. 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.
17. 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 AWG 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.
18. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
19. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
20. BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, AND ALNA TO EGB PLACED NEAR THE ANTENNA LOCATION.
21. BOND ANTENNA EGB'S AND MGB TO GROUND RING.
22. CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MAXIMUM RESISTANCE REQUIRED.
23. CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE-TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.
24. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2" OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL, MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50.

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SITE NUMBER: MA2974
SITE NAME: PITTSFIELD HUBBARD AVE

500 HUBBARD AVENUE
PITTSFIELD, MA 01201
BERKSHIRE COUNTY

AT&T
492 OLD CONNECTICUT PATH SUITE #210
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
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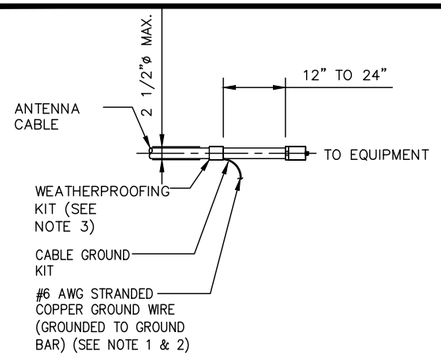
SCALE: AS SHOWN | DESIGNED BY: JC | DRAWN BY: CC

COMMONWEALTH OF MASSACHUSETTS
DANIEL P. HAMM
CIVIL
No. 40720
REGISTERED PROFESSIONAL ENGINEER

AT&T MOBILITY

ELECTRICAL NOTES & ONE-LINE DIAGRAM (NSB)

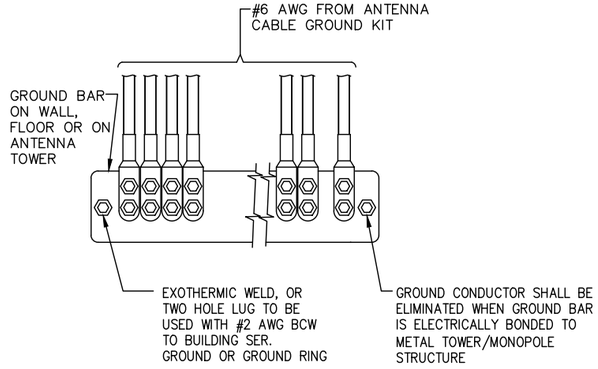
SITE NUMBER	DRAWING NUMBER	REV
MA2974	E-1	7



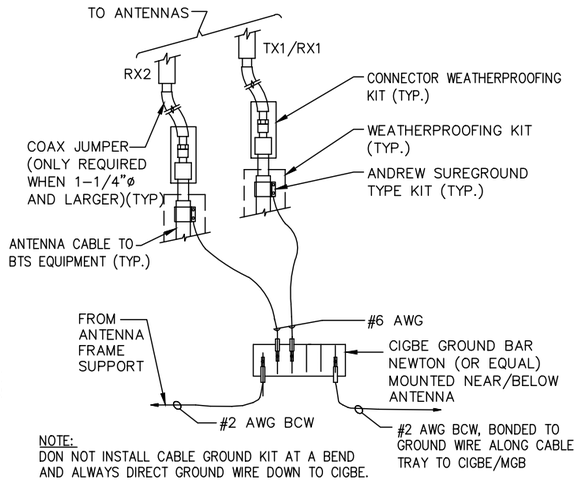
NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE SUPPLIED WITH KIT. COLD SHRINK SHALL NOT BE USED.

CONNECTION OF CABLE GROUND KIT TO ANTENNA CABLE (1 / G-1)
SCALE: N.T.S



INSTALLATION OF GROUND WIRE TO GROUND BAR (2 / G-1)
SCALE: N.T.S



NOTE:
DON NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

INSTALLATION OF GROUND WIRE TO GROUNDING BAR TOWER (3 / G-1)
SCALE: N.T.S

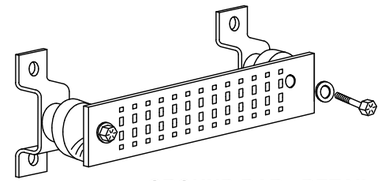
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" – SURGE PRODUCERS

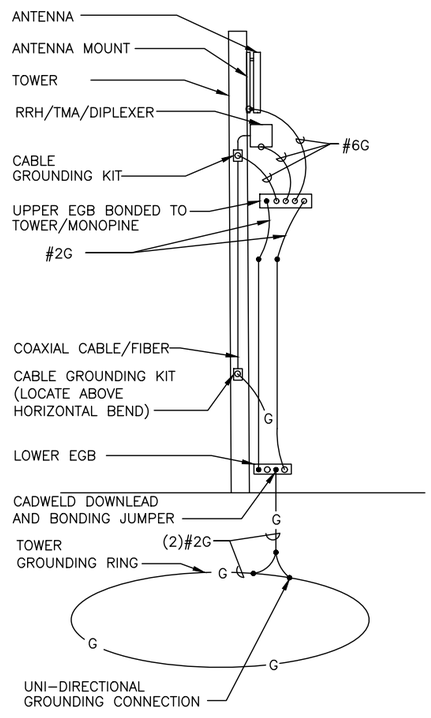
CABLE ENTRY PORTS (HATCH PLATES) (#2 AWG)
GENERATOR FRAMEWORK (IF AVAILABLE) (#2 AWG)
TELCO GROUND BAR
COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2 AWG)
+24V POWER SUPPLY RETURN BAR (#2 AWG)
–48V POWER SUPPLY RETURN BAR (#2 AWG)
RECTIFIER FRAMES.

SECTION "A" – SURGE ABSORBERS

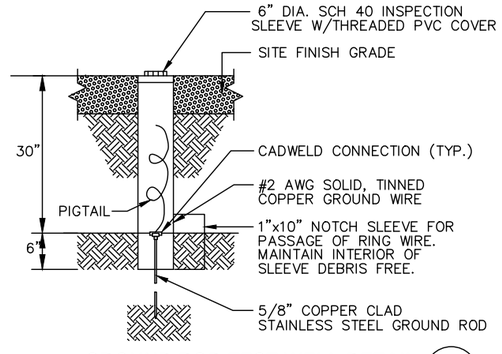
INTERIOR GROUND RING (#2 AWG)
EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2 AWG)
METALLIC COLD WATER PIPE (IF AVAILABLE) (#2 AWG)
BUILDING STEEL (IF AVAILABLE) (#2 AWG)



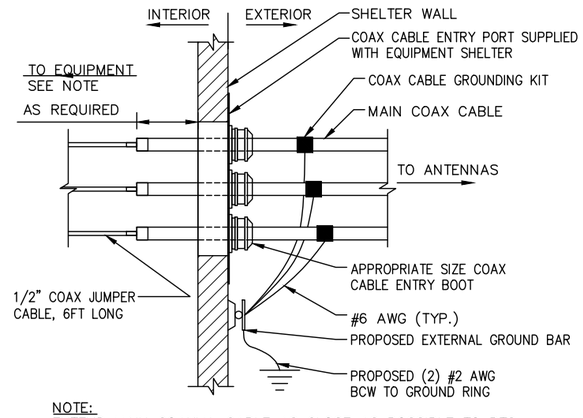
GROUND BAR - DETAIL (4 / G-1)
SCALE: N.T.S



GROUNDING ONE-LINE DIAGRAM (5 / G-1)
SCALE: N.T.S



GROUND ROD TEST WELL DETAIL (6 / G-1)
SCALE: N.T.S



NOTE:
EXTEND MAIN COAXIAL CABLE AS CLOSE AS POSSIBLE TO BTS EQUIPMENT. MAX LENGTH OF BTS JUMPER IS 6 FT.

INSTALLATION OF GROUND WIRE TO GROUND BAR (7)
SCALE: N.T.S

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COMMONWEALTH OF MASSACHUSETTS
DANIEL P. HAMM
CIVIL
No. 40720
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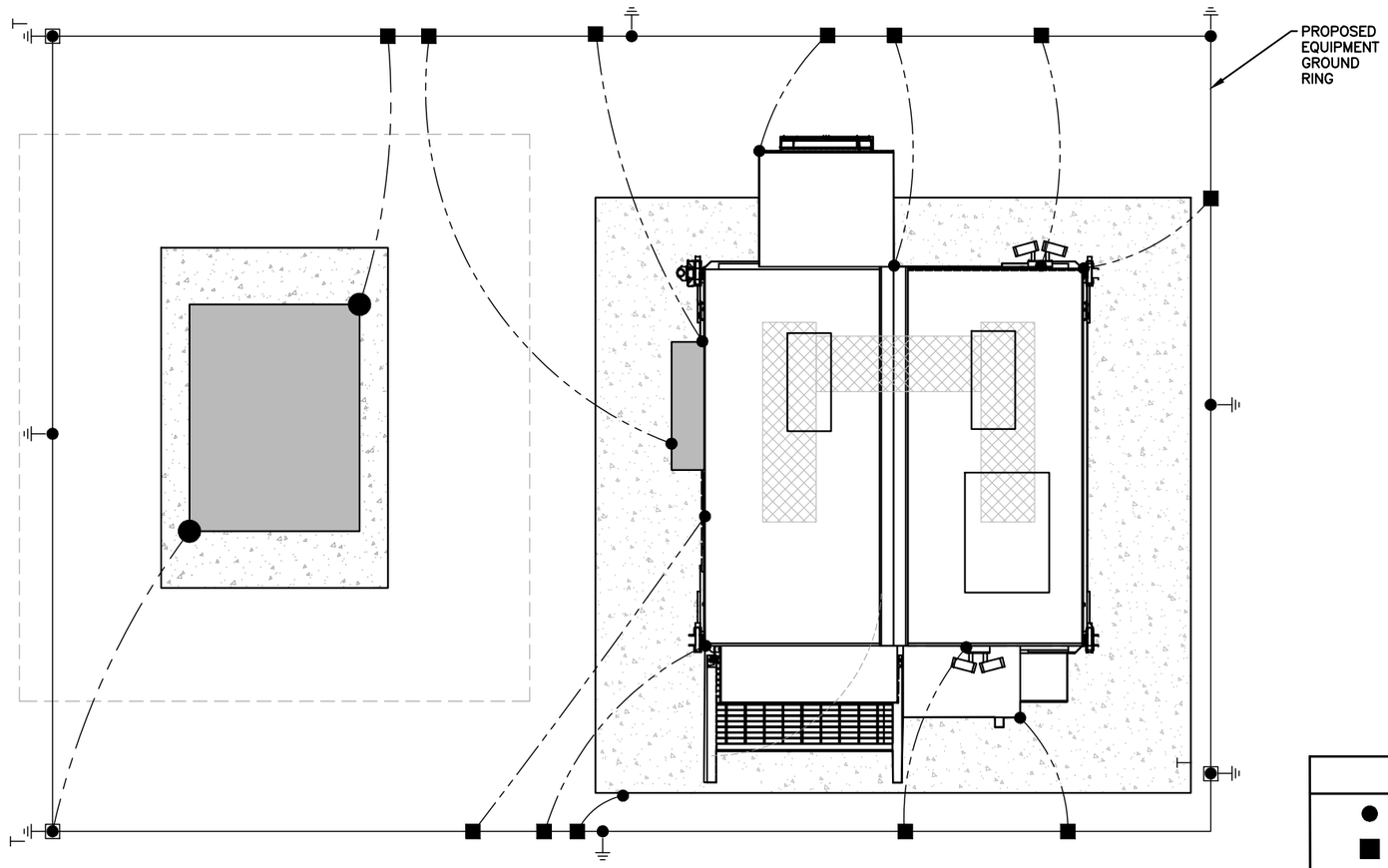
AT&T MOBILITY

GROUNDING DETAILS
(NSB)

SITE NUMBER	DRAWING NUMBER	REV
MA2974	G-1	7

GROUNDING NOTES

1. ALL GROUND WIRE SHALL BE BARE COPPER #2 AWG UNLESS OTHERWISE NOTED.
2. ALL GROUND WIRES SHALL PROVIDE A STRAIGHT, DOWNWARD PATH TO GROUND WITH GRADUAL BENDS AS REQUIRED. GROUND WIRES SHALL NOT BE LOOPED OR SHARPLY BENT.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF GROUND RODS AND GROUND RING WITH FOUNDATION AND UNDERGROUND CONDUIT.
4. EACH EQUIPMENT CABINET SHALL BE CONNECTED TO THE MASTER ISOLATION GROUND BAR (MIGB) WITH #2 AWG INSULATED STRANDED COPPER WIRE. EQUIPMENT CABINETS SHALL EACH HAVE (2) CONNECTIONS.
5. PROVIDE DEDICATED #2 AWG COPPER GROUND WIRE FROM EACH ANTENNA MOUNTING PIPE TO ASSOCIATED CIGBE (TYPICAL FOR FOUR MOUNTING PIPES PER SECTOR).
6. ANTENNA GROUND KITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
7. COORDINATE NEW LICENSEE GROUND SYSTEM WITH EXISTING SITE GROUND SYSTEM.
8. EACH SECTION OF CABLE TRAY, ICE BRIDGE AND ICE SHIELD SHALL BE CONNECTED IN A FASHION TO PROVIDE A CONTINUOUS GROUND.
9. AT ALL TERMINATIONS AT EQUIPMENT ENCLOSURES, PANELS AND FRAMES OF EQUIPMENT, AND WHERE EXPOSED FOR GROUNDING, CONDUCTOR TERMINATION SHALL BE PERFORMED UTILIZING TWO HOLE BOLTED TONGUE COMPRESSION TYPE WITH STAINLESS STEEL SELF–TAPPING SCREWS.
10. ALL CLAMPS AND SUPPORTS USED TO SUPPORT THE GROUNDING SYSTEM CONDUCTORS AND PVC CONDUITS SHALL BE PVC TYPE (NON CONDUCTIVE). DO NOT USE METAL BRACKETS OR SUPPORTS WHICH WOULD FORM A COMPLETE RING AROUND ANY GROUNDING CONDUCTOR.
11. ALL GROUNDING CONNECTIONS SHALL BE COATED WITH A COPPER SHIELD ANTI–CORROSIVE AGENT SUCH AS T&B KOPR SHIELD. VERIFY PRODUCT WITH LICENSEE PROJECT MANAGER.
12. ALL BOLTS, WASHERS, AND NUTS USED ON GROUNDING CONNECTIONS SHALL BE STAINLESS STEEL.
13. INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUS IN THE PANELBOARD.
14. GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 AWG GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
15. GROUND COAXIAL SHIELD AT BOTH ENDS USING MANUFACTURER'S GUIDELINES.
16. REINFORCEMENT IN EQUIPMENT SLAB TO BE WELDED AND REINFORCEMENT TO BE BONDED TO GROUNDING RING.
17. CONCRETE–ENCASED ELECTRODES GREATER THAN 20 S.F. OF SURFACE AREA & 1/2" OR GREATER REINFORCING STEEL MUST BE BONDED TO THE GROUNDING RING PER NEC 250.50.
18. ALL GROUND BARS SHALL BE GALVANIZED WITH ANTI–THEFT HARDWARE.



EQUIPMENT GROUNDING PLAN (1 / G–2)
22x34 SCALE: N.T.S

GROUNDING LEGEND

- COMPRESSION TYPE CONNECTION
- EXOTHERMIC
- CHEMICAL ELECTROLYTIC GROUNDING SYSTEM
- 5/8" X 10'–0" COPPER CLAD GROUND ROD
- TEST 5/8" X 10'–0" COPPER CLAD GROUND ROD WITH INSPECTION SLEEVE
- EXOTHERMIC WITH INSPECTION SLEEVE
- #2 SOLID TINNED COPPER WIRE UNLESS OTHERWISE NOTED GROUNDING CONDUCTOR
- GROUNDING BAR
- PIGTAIL GROUND CONDUCTOR

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EQUIPMENT GROUNDING PLAN
(NSB)

SITE NUMBER	DRAWING NUMBER	REV
MA2974	G–2	7

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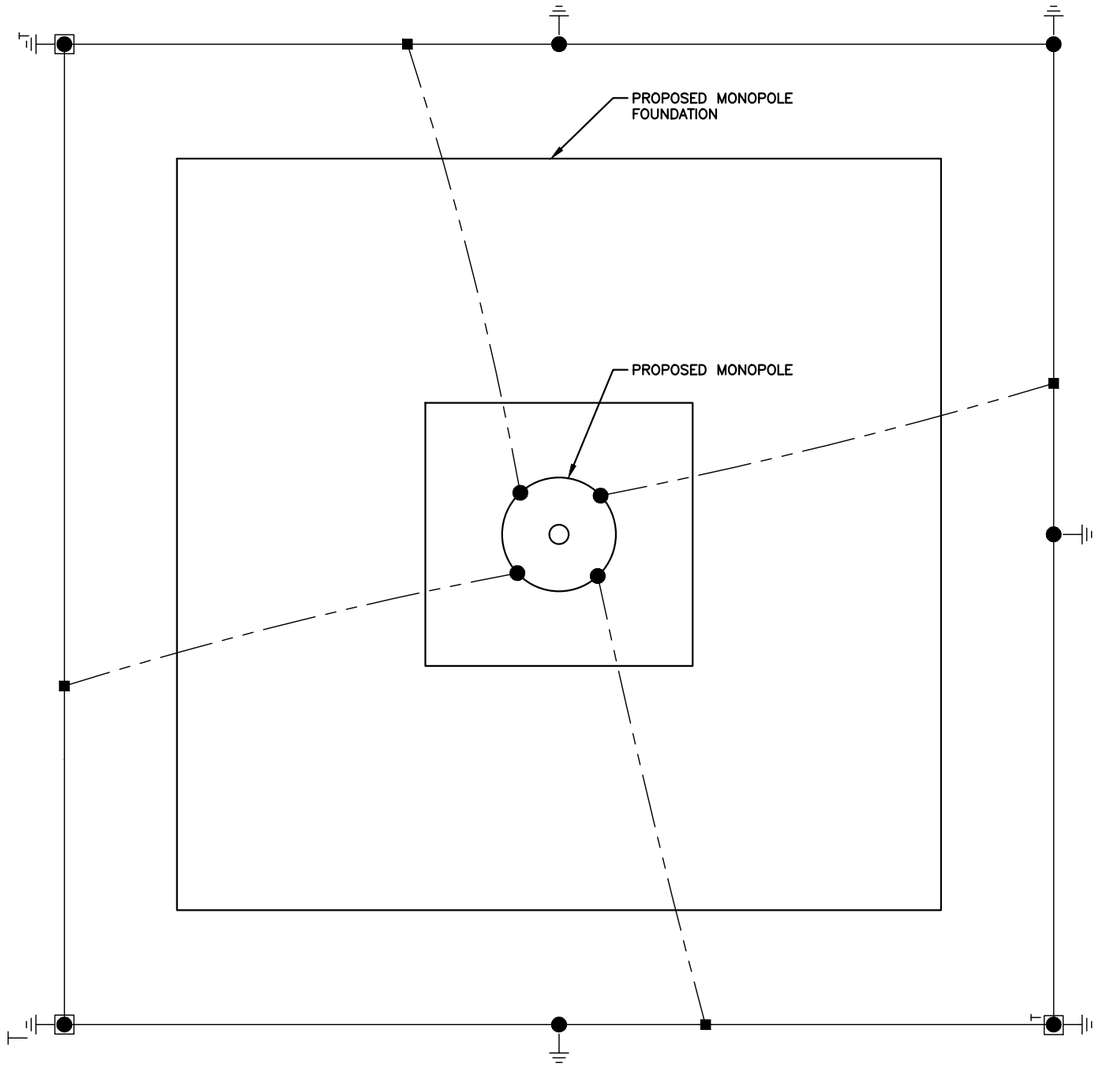

TOWER GROUNDING PLAN (1 / G–3)
22x34 SCALE: N.T.S

GROUNDING LEGEND

- COMPRESSION TYPE CONNECTION
- EXOTHERMIC
- CHEMICAL ELECTROLYTIC GROUNDING SYSTEM
- 5/8" X 10'–0" COPPER CLAD GROUND ROD
- TEST 5/8" X 10'–0" COPPER CLAD GROUND ROD WITH INSPECTION SLEEVE
- EXOTHERMIC WITH INSPECTION SLEEVE
- #2 SOLID TINNED COPPER WIRE UNLESS OTHERWISE NOTED GROUNDING CONDUCTOR
- GROUNDING BAR
- PIGTAIL GROUND CONDUCTOR

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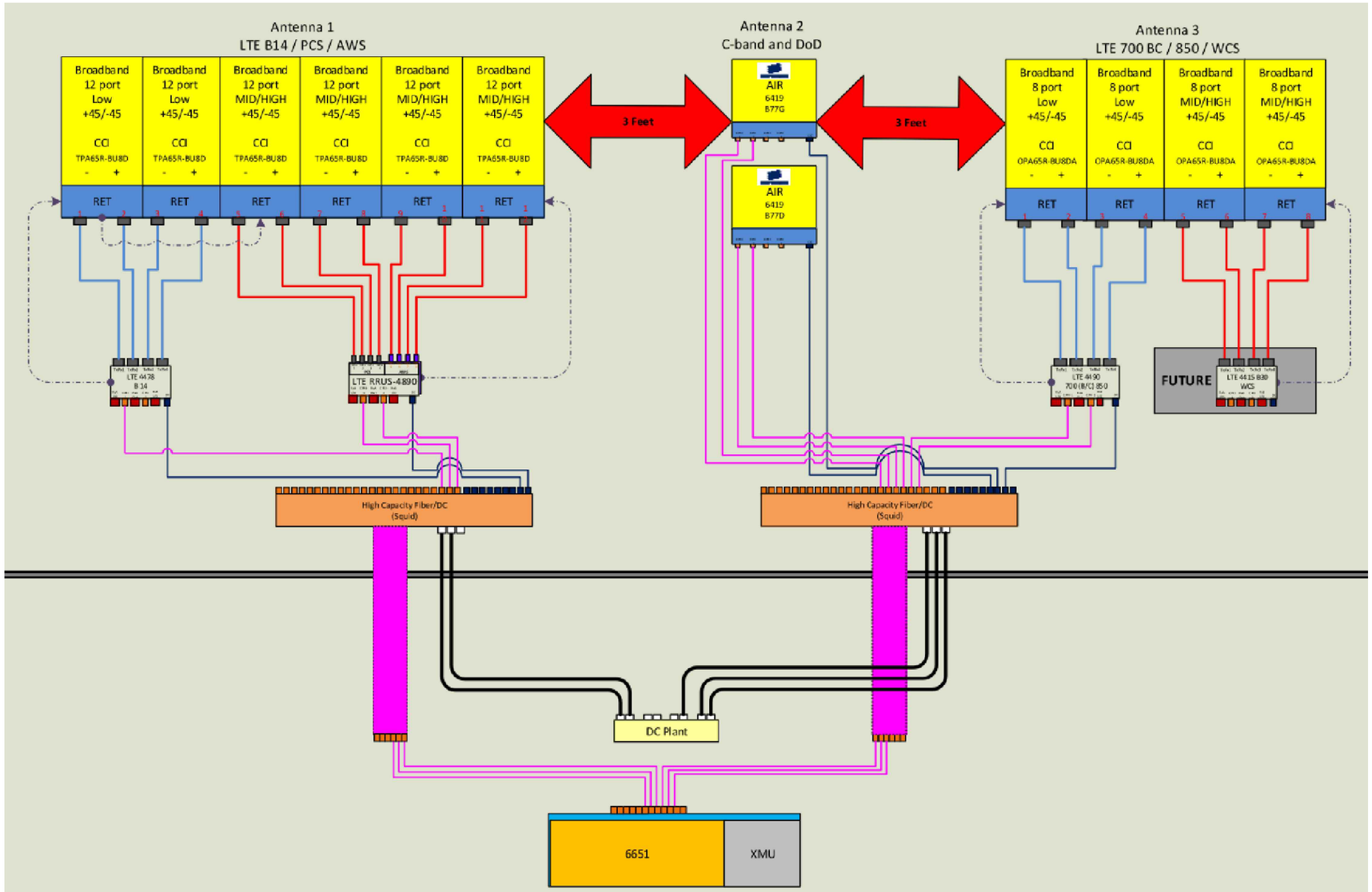
TOWER GROUNDING PLAN
(NSB)

SITE NUMBER	DRAWING NUMBER	REV
MA2974	G–3	7

APPROVALS



RF PLUMBING DIAGRAM (1 / RF–1)
SCALE: N.T.S

NOTE:
1. CONTRACTOR TO CONFIRM ALL PARTS.
2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS

NOTE:

REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

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AT&T MOBILITY

RF PLUMBING DIAGRAM
(NSB)

SITE NUMBER	DRAWING NUMBER	REV
MA2974	RF–1	7

5

LIST OF ABUTTERS

JUNE 20, 2024

APPLICANT: KEVIN MASON

OWNERS: CASELLA WASTE MANAGEMENT OF MASSACHUSETTS INC

LOCATION: 500 HUBBARD AVE (M14-0001-008)

LIST OF ABUTTERS: I CERTIFY THAT THE ATTACHED LIST CONTAINS THE NAMES AND ADDRESSES OF THE ABUTTERS AND THE OWNERS OF LAND NEXT TO AND ADJOINING THE LAND OF THE ABUTTERS TO THE PROPERTY COVERED BY THIS APPLICATION.

MEMBER – BOARD OF ASSESSORS Karen

Addre	Address Street	ID	Owner 1	Owner 2	Owner Address	Owner City	Owne	Zip
555	HUBBARD AVE	L130009201	CENTRO BRADLEY BERKSHIRE CROSSING LLC	%RYAN LLC TAX COMPLIANCE	500 EAST BROWARD BLVD #1130	FORT LAUDERDALE	FL	33394
555	HUBBARD AVE	L140003107	FCPT HOLDINGS LLC	%FOUR CORNERS PROPERTY TRUST	591 REDWOOD HIGHWAY #3215	MILL VALLEY	CA	94941
555	HUBBARD AVE	L140003108	CENTRO BRADLEY BERKSHIRE CROSSING LLC	% RYAN LLC TAX COMPLIANCE	500 EAST BROWARD BLVD #1130	FORT LAUDERDALE	FL	33394
555	HUBBARD AVE	L140003109	CENTRO BRADLEY BERKSHIRE CROSSING LLC	%RYAN LLC TAX COMPLIANCE	500 EAST BROWARD BLVD #1130	FORT LAUDERDALE	FL	33394
555	HUBBARD AVE	L140003110	CENTRO BRADLEY BERKSHIRE CROSSING LLC	% RYAN LLC TAX COMPLIANCE	500 EAST BROWARD BLVD #1130	FORT LAUDERDALE	FL	33394
555	HUBBARD AVE	L140003111	CENTRO BRADLEY BERKSHIRE CROSSING LLC	% RYAN LLC TAX COMPLIANCE	500 EAST BROWARD BLVD #1130	FORT LAUDERDALE	FL	33394
555	HUBBARD AVE	M130001101	CENTRO BRADLEY BERKSHIRE CROSSING LLC	% RYAN LLC TAX COMPLIANCE	500 EAST BROWARD BLVD #1130	FORT LAUDERDALE	FL	33394
555	HUBBARD AVE	M130001102	AGREE STORES LLC	% AGREE DEVELOPMENT LLC	PO BOX 460389 DEPT 125	HOUSTON	TX	77056
495	HUBBARD AVE	M130001211	AGREE EASTERN LLC	%BJS WHOLESALE CLUB INC	PO BOX 9157	MARLBOROUGH	MA	01752
	HUBBARD AVE	M130002001	CRANE & CO INC		30 SOUTH ST	DALTON	MA	01226
454	HUBBARD AVE	M130002002	RUSCETTA BRYAN		454 HUBBARD AVE	PITTSFIELD	MA	01201
560	HUBBARD AVE	M140001001	LAWRENCE GREENBERG RESIDUARY TRUST	DANIEL & PETER & CYNTHIA GREENBE	PO BOX 2469	SPRINGFIELD	MA	01101
556	HUBBARD AVE	M140001002	WENDYS PROPERTIES LLC	ATTN:PROPERTY TAX	1 DAVE THOMAS BLVD	DUBLIN	OH	43017
	HUBBARD AVE	M140001003	CRANE & CO INC		30 SOUTH ST	DALTON	MA	01226
	HUBBARD AVE	M140001009	CRANE AND CO INC		30 SOUTH ST	DALTON	MA	01226
1080	DALTON AVE	M140002001	CRANE TECHNICAL MATERIALS INC	% NEENAH PAPER INC	100 KIMBALL PLACE SUITE 600	ALPHARETTA	GA	30009
1112	DALTON AVE	M140002002	WILCOX KAREN LYNN		1114 DALTON AVE	PITTSFIELD	MA	01201
1051	DALTON AVE	M140003002	VINCENT KEVIN M		1051 DALTON AVE	PITTSFIELD	MA	01201
1061	DALTON AVE	M140003003	LEE RONALD W	LEE MARILYNNE L E/O	1061 DALTON AVE	PITTSFIELD	MA	01201
1073	DALTON AVE	M140003004	LEWIS PAUL R		1073 DALTON AVE	PITTSFIELD	MA	01201
1079	DALTON AVE	M140003005	VANDEUSEN RICHARD H & LINDA M	HOYT BARBARA J & VANDEUSEN JASO	1079 DALTON AVE	PITTSFIELD	MA	01201
	DALTON AVE	M140003016	BERKSHIRE NATURAL	RESOURCES COUNCIL INC	309 PITTSFIELD RD STE B	LENOX	MA	01240
	DALTON AVE	M140003112	BERKSHIRE NATURAL	RESOURCES COUNCIL INC	309 PITTSFIELD RD STE B	LENOX	MA	01240
	DALTON AVE	M140003113	CRANE TECHNICAL MATERIALS INC	% NEENAH PAPER INC.	3460 PRESTON RIDGE RD STE 600	ALPHARETTA	GA	30005

6

****
* Federal Airways & Airspace *
* Summary Report: New Construction *
* Antenna Structure *
****

Airspace User: Not Identified

File: 15440579

Location: LANESBOROUGH, MA

Latitude: 42°-28'-8.0" Longitude: 73°-11'-41.07"

SITE ELEVATION AMSL.....1036 ft.
STRUCTURE HEIGHT.....115 ft.
OVERALL HEIGHT AMSL.....1151 ft.

NOTICE CRITERIA
FAR 77.9(a): NNR (DNE 200 ft AGL)
FAR 77.9(b): NNR (DNE Notice Slope)
FAR 77.9(c): NNR (Not a Traverse Way)
FAR 77.9: NNR FAR 77.9 IFR Notice for PSF
FAR 77.9: NNR (No Expected TERPS® impact with AQW)
FAR 77.9(d): NNR (Off Airport Construction)

NR = Notice Required
NNR = Notice Not Required
PNR = Possible Notice Required (depends upon actual IFR procedure)
For new construction review Air Navigation Facilities at bottom of this report.

Notice to the FAA is not required at the analyzed location and height for slope, height or Straight-In procedures. Please review the 'Air Navigation' section for notice requirements for offset IFR procedures and EMI.

OBSTRUCTION STANDARDS
FAR 77.17(a)(1): DNE 499 ft AGL
FAR 77.17(a)(2): DNE - Airport Surface
FAR 77.19(a): DNE - Horizontal Surface
FAR 77.19(b): DNE - Conical Surface
FAR 77.19(c): DNE - Primary Surface
FAR 77.19(d): DNE - Approach Surface
FAR 77.19(e): DNE - Approach Transitional Surface
FAR 77.19(e): DNE - Abeam Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: PSF: PITTSFIELD MUNI
Type: A RD: 26962.61 RE: 1132.1
FAR 77.17(a)(1): DNE
FAR 77.17(a)(2): DNE - Height No Greater Than 200 feet AGL.
VFR Horizontal Surface: DNE

VFR Conical Surface: DNE
VFR Primary Surface: DNE
VFR Approach Surface: DNE
VFR Transitional Surface: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: AQW: HARRIMAN-AND-WEST
Type: A RD: 83068.27 RE: 653.8
FAR 77.17(a)(1): DNE
FAR 77.17(a)(2): DNE - Greater Than 5.99 NM.
VFR Horizontal Surface: DNE
VFR Conical Surface: DNE
VFR Primary Surface: DNE
VFR Approach Surface: DNE
VFR Transitional Surface: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4)
FAR 77.17(a)(3) Departure Surface Criteria (40:1)
DNE Departure Surface

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)
FAR 77.17(a)(4) MOCA Altitude Enroute Criteria
The Maximum Height Permitted is 2600 ft AMSL

PRIVATE LANDING FACILITIES
No Private Landing Facilities Are Within 6 NM

AIR NAVIGATION ELECTRONIC FACILITIES

FAC IDNT	TYPE	ST AT	FREQ	VECTOR	DIST (ft)	DELTA ELEVA	ST	LOCATION	GRND ANGLE	APCH BEAR
QHA	RADAR ARSR	Y	1320.	87.93	61229	-1002	MA	West Cummington	-.94	
Alert. Object Does Not Require Notice to the FAA based upon EMI. Maximum Not To Exceed Notice Height is: 2477 ft AMSL										
CTR	VOR/DME	R	115.1	134.39	92646	-449	MA	CHESTER	-.28	
BAF	VORTAC	R	113.0	130.99	171074	+884	MA	BARNES	.30	
ALB	VORTAC	R	115.3	301.98	192677	+878	NY	ALBANY	.26	
ALB	RADAR ASR	I		300.75	195555	+716	NY	ALBANY INT'L	.21	
CAM	VOR/DME	I	115.0	348.22	195635	-339	NY	CAMBRIDGE	-.1	
CEF	TACAN	R	114.0	118.91	206031	+911	MA	WESTOVER	.25	
BDL	RADAR ASR	I		144.49	237943	+915	CT	BRADLEY INTL	.22	
KENX	RADAR WXL	Y		280.66	238215	-785	NY	ALBANY	-.19	

5G AIRPORT SAFETY AREA
No Identified 5G conflict.

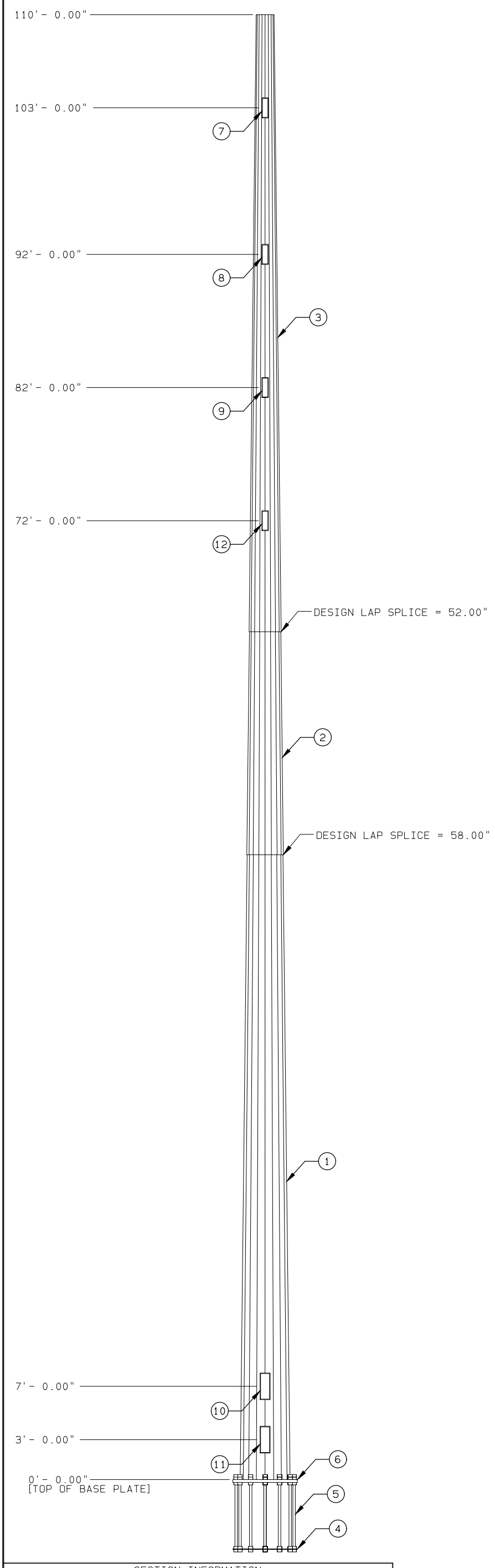
CFR Title 47, §1.30000-§1.30004
AM STUDY NOT REQUIRED: Structure is not near a FCC licensed AM station.
Movement Method Proof as specified in §73.151(c) is not required.
Please review 'AM Station Report' for details.

Nearest AM Station: WBRK @ 2665 meters.

Airspace® Summary Version 23.11.692

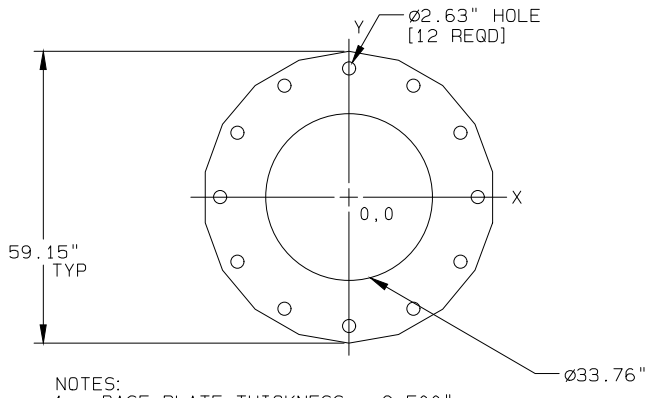
12-19-2023
11:55:14

7



ITEM ID	NO. REQD	FEATURES	UNIT WEIGHT (LBS)	WEIGHT (LBS)
1	1	SECTION A VALMONT S-22 0.375" THK (A572 GR65)	7,845	7,845
2	1	SECTION B VALMONT S-22 0.313" THK (A572 GR65)	2,103	2,103
3	1	SECTION C VALMONT S-22 0.250" THK (A572 GR65)	2,772	2,772
4	1	BOTTOM CAGE PLATE	105	105
5	12	2.25" ANCHOR BOLT, LENGTH=5.50' A615 GR75	103	1,228
6	1	BASE PLATE VALMONT S-56 2.500" THK (A572 GR50)	1,229	1,229
	1	TOP CAGE PLATE (REMOVE BEFORE SETTING POLE)	138	138
	1	SAFETY CLIMBING CABLE (LENGTH = 100.00')	86	86
	3	GROUNDING LUG	2	6
		GALVANIZING	277	277
	195	STEP AND CLIP (VALMONT STANDARD)	1	98
7	3	HAND HOLE STD (6" x 18")	18	54
8	3	HAND HOLE STD (6" x 18")	18	54
9	3	HAND HOLE STD (6" x 18")	18	54
10	2	HAND HOLE HVY (9" x 24")	52	104
11	2	HAND HOLE HVY (9" x 24")	52	104
12	3	HAND HOLE STD (6" x 18")	18	54
	1	POLE CAP	15	15

HOLE COORDS [INCHES]	
X-COORD	Y-COORD
26.13	0.00
22.62	13.06
13.06	22.62
0.00	26.13



NOTES:
1. BASE PLATE THICKNESS = 2.500"
2. BASE PLATE ALLOWABLE STRESS [KSI] = 50
3. ANGLES ARE MEASURED CLOCKWISE FROM 0 DEGREES
4. BOLT CIRCLE DIAMETER = 52.25"
5. CAGE TEMPLATE DIAMETER = 55.75"

BASE PLATE / ANCHORAGE CHARACTERISTICS

NOTES:

1. FACTORED REACTIONS FOR FOUNDATION DESIGN
   MOMENT = 40,639 IN-KIPS
   SHEAR = 38,198 #
   VERTICAL = 36,392 #
2. GALVANIZED PER ASTM A-123.
3. DESIGN CRITERIA: TIA-222-G ADDENDUM 2
4. THIS STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING LOADING:
   EXPOSURE CATEGORY = C
   TOPOGRAPHY CATEGORY = 1
   STRUCTURE CLASSIFICATION = 2
   EARTHQUAKE SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS SS = 0.17
   EARTHQUAKE SPECTRAL RESPONSE ACCELERATION AT ONE SECOND S1 = 0.06
   EARTHQUAKE SITE CLASS = D
   WIND LOAD CASES ARE BASED ON 3 SECOND GUST AND 50 YEAR WIND RETURN PERIOD
   A. CASE 1: WIND = 90 MPH WIND SPEED
   B. CASE 2: WIND = 40 MPH ICE AND WIND SPEED
      DESIGN ICE THICKNESS = 0.75 IN
   C. CASE 3: WIND = 60 MPH WIND SPEED
   D. CASE 4: SEISMIC
   E. EQUIPMENT

DESCRIPTION	ABP MTG HT. (FT)	ABP CENTROID HT. (FT)	WITHOUT ICE EPA (FT**2)	WITHOUT ICE WT (LBS)	WITH ICE EPA (FT**2)	WITH ICE WT (LBS)
3-CCI TPA65R-BU8DA-K (W/PM)	106.00	106.00	48.84	337	52.70	970
6-AIR6419 B77D+AIR6419 B77G (W	106.00	106.00	54.98	968	62.84	1879
3-CCI OPA65R-BU8DA-K (W/PM)	106.00	106.00	48.84	319	52.70	952
3-4490 B5/B12 RRH	106.00	106.00	5.32	213	6.40	282
3-4890 B25/B66 RRH (W/PM)	106.00	106.00	11.00	415	15.90	706
1-VFA12-M3-WLL	106.00	106.00	28.37	2999	55.36	4134
1-175 SQ FT EPA	95.00	95.00	175.00	3500	262.50	5250
1-175 SQ FT EPA	85.00	85.00	175.00	3500	262.50	5250
1-175 SQ FT EPA	75.00	75.00	175.00	3500	262.50	5250
1-1/2" X 4' LIGHTNING RODS	110.00	112.00	0.20	14	1.19	34
2-RAYCAP DC9-48-60-0-8C-EV AMP	106.00	106.00	2.81	52	3.75	326
3-ERICSSON RRU 4478 AMPS	106.00	106.00	5.47	177	7.02	381
3-ERICSSON RRUS 4415 B30 AMPS	106.00	106.00	4.97	138	6.45	302

5. POLE DESIGNED TO ULTIMATE WIND SPEED OF 116 MPH PER ASCE 7-16
6. FEEDLINES ARE PLACED INTERIOR TO THE POLE SHAFT (UNLESS NOTED OTHERWISE)
7. TOTAL POLE HEIGHT IS 111 FT AGL
8. ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE (APPROX. 1 FT AGL)
9. 18 SIDED SHAFT
10. EPA ASSUMED FOR CARRIERS 2, 3, AND 4
11. ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES. BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES, VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USER'S MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING. THE VALMONT WARRANTY SPECIFICALLY EXCLUDES FATIGUE FAILURE OR SIMILAR PHENOMENA RESULTING FROM INDUCED VIBRATION, HARMONIC OSCILLATION OR RESONANCE ASSOCIATED WITH MOVEMENT OF AIR CURRENTS AROUND THE PRODUCT.
12. PRELIMINARY - NOT FOR CONSTRUCTION

SECTION INFORMATION					
ITEM ID	LENGTH	BASE OD	TOP OD	THK	MATL
1	51'- 9.00"	45.00"	30.95"	0.375"	A572 65 KSI
2	21'- 1.00"	32.88"	27.16"	0.313"	A572 65 KSI
3	46'- 4.00"	28.83"	16.25"	0.250"	A572 65 KSI

REV ID	DATE	REV BY	DESCRIPTION
1	01-19-2024	VC72	Structure height and RAD elevations modified

ORDER	PROJECT	FILE ID	SCALE	DATE	ENGR
	605608	605608-01RevA	NONE	01/19/24	VC72

DESCRIPTION
QUALTEK WIRELESS 110.0' POLE, SITE: RAWLAND TOWER, PITTSFIELD, MA

valmont

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Photographic Simulation Package

Proposed Replacement and Upgrade to Existing Telecommunications Facility:

MA2974 Pittsfield Hubbard Ave
500 Hubbard Avenue
Pittsfield, MA 01201

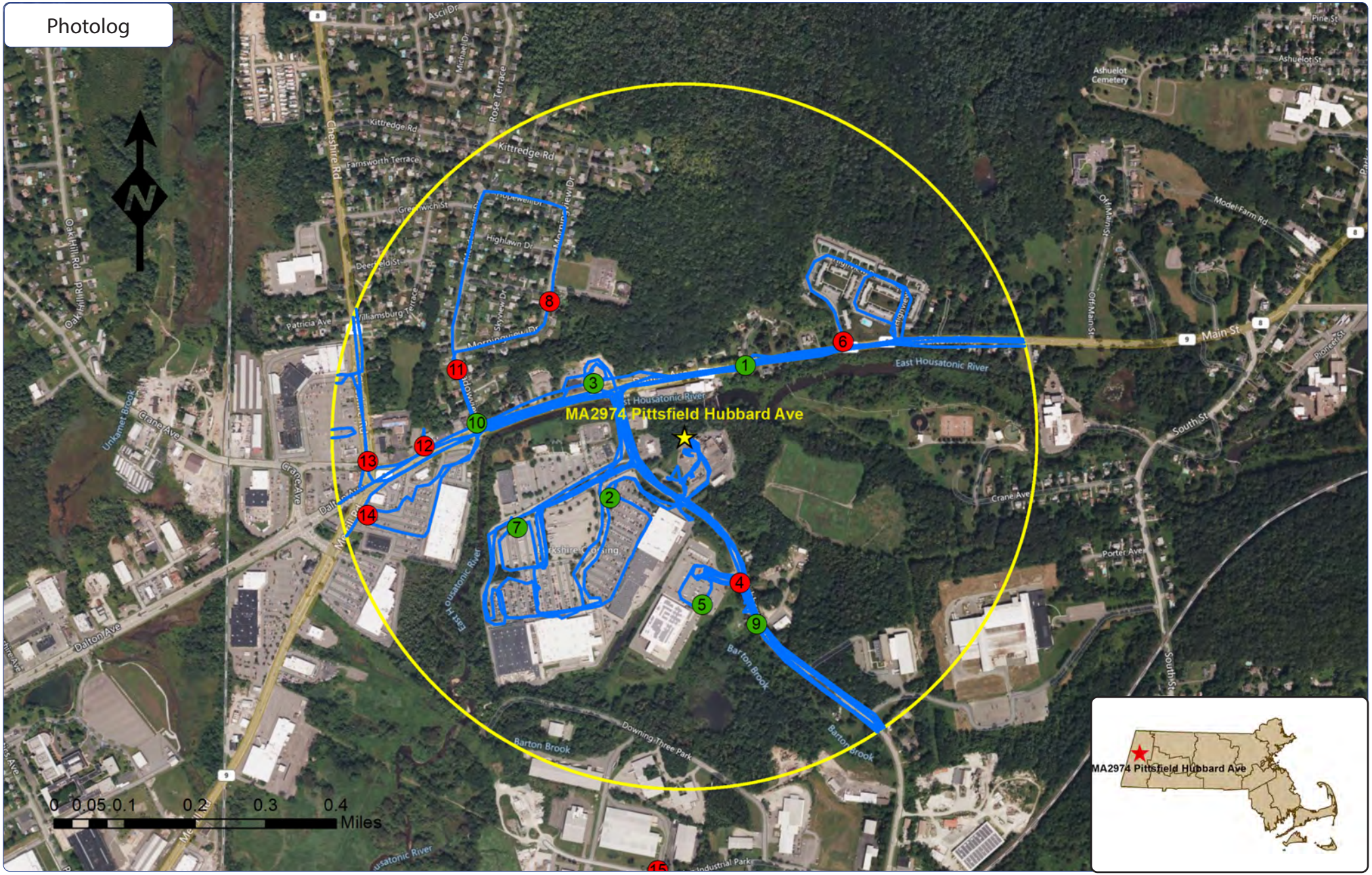
- Revised tower height 111 ft AGL
- Added 4 ft whip antenna
- Maximum structure height 115 ft AGL

Package prepared by:

Virtual Site Simulations, LLC
24 Salt Pond Road
Suite C3
South Kingstown, Rhode Island 02879

www.VirtualSiteSimulations.com
www.ThinkVSSFirst.com

Photolog



Wireless Telecommunications Facility:

MA2974 Pittsfield Hubbard Ave

500 Hubbard Avenue

Pittsfield, MA 01201

Legend:

Facility Location

2640 Ft Radius

Photo location - Year Round Visibility

Photo location- Obscured Visibility

Photo location - NOT visible

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

VSS
Your Visual Data Partner

SAI

at&t

Existing

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
1	Dalton Ave	42.47036	-73.19308	0.13 Miles	North-East	220	Year Round

Site: MA2974 Pittsfield Hubbard Ave

VSS

SAI

at&t

Simulation

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
1	Dalton Ave	42.47036	-73.19308	0.13 Miles	North-East	220	Year Round

Site: MA2974 Pittsfield Hubbard Ave

VSS

SAI

at&t

Existing

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
2	Hubbard Ave	42.46762	-73.19682	0.14 Miles	South-West	50	Year Round

Site: MA2974 Pittsfield Hubbard Ave

VSS

SAI

at&t

Simulation

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
2	Hubbard Ave	42.46762	-73.19682	0.14 Miles	South-West	50	Year Round

Site: MA2974 Pittsfield Hubbard Ave

VSS

SAI

at&t

Existing

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
3	Dalton Ave	42.46998	-73.19729	0.15 Miles	North-West	121	Year Round

Site: MA2974 Pittsfield Hubbard Ave

VSS

SAI

at&t

Simulation

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
3	Dalton Ave	42.46998	-73.19729	0.15 Miles	North-West	121	Year Round

Site: MA2974 Pittsfield Hubbard Ave

VSS

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at&t

Existing

Balloon not visible from this location

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
4	Hubbard Ave	42.4659	-73.1932	0.22 Miles	South	339	Not Visible

Site: MA2974 Pittsfield Hubbard Ave

VSS

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Existing

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
5	Hubbard Ave	42.46544	-73.19424	0.24 Miles	South	354	Year Round

Site: MA2974 Pittsfield Hubbard Ave

VSS

SAI

at&t

Simulation

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
5	Hubbard Ave	42.46544	-73.19424	0.24 Miles	South	354	Year Round

Site: MA2974 Pittsfield Hubbard Ave

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

VSS

SAI

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Existing

Balloon not visible from this location

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
6	Highview Dr	42.47086	-73.19037	0.26 Miles	North-East	239	Not Visible

Site: MA2974 Pittsfield Hubbard Ave

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

VSS

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Existing

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
7	Hubbard Ave	42.467	-73.1994	0.27 Miles	South-West	61	Year Round

Site: MA2974 Pittsfield Hubbard Ave

VSS

SAI

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Simulation

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
7	Hubbard Ave	42.467	-73.1994	0.27 Miles	South-West	61	Year Round

Site: MA2974 Pittsfield Hubbard Ave

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

VSS

SAI

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Existing

Balloon not visible from this location

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
8	Morningview Dr	42.47165	-73.19853	0.27 Miles	North-West	135	Not Visible

Site: MA2974 Pittsfield Hubbard Ave

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

VSS

SAI

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Existing

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
9	Hubbard Ave	42.46505	-73.19273	0.28 Miles	South	339	Year Round

Site: MA2974 Pittsfield Hubbard Ave

VSS

SAI

at&t

Simulation

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
9	Hubbard Ave	42.46505	-73.19273	0.28 Miles	South	339	Year Round

Site: MA2974 Pittsfield Hubbard Ave

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VSS

SAI

at&t

Existing

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
10	Dalton Ave	42.46915	-73.20053	0.29 Miles	West	94	Year Round

Site: MA2974 Pittsfield Hubbard Ave

VSS

SAI

at&t

Simulation

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
10	Dalton Ave	42.46915	-73.20053	0.29 Miles	West	94	Year Round

Site: MA2974 Pittsfield Hubbard Ave

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

VSS

SAI

at&t

Existing

Balloon not visible from this location

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
11	Meadowview Dr	42.47024	-73.20109	0.34 Miles	West	106	Not Visible

Site: MA2974 Pittsfield Hubbard Ave

VSS

SAI

at&t

Existing

Balloon not visible from this location

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
12	Dalton Ave	42.46867	-73.20199	0.37 Miles	West	88	Not Visible

Site: MA2974 Pittsfield Hubbard Ave

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

VSS

SAI

at&t

Existing

Balloon not visible from this location

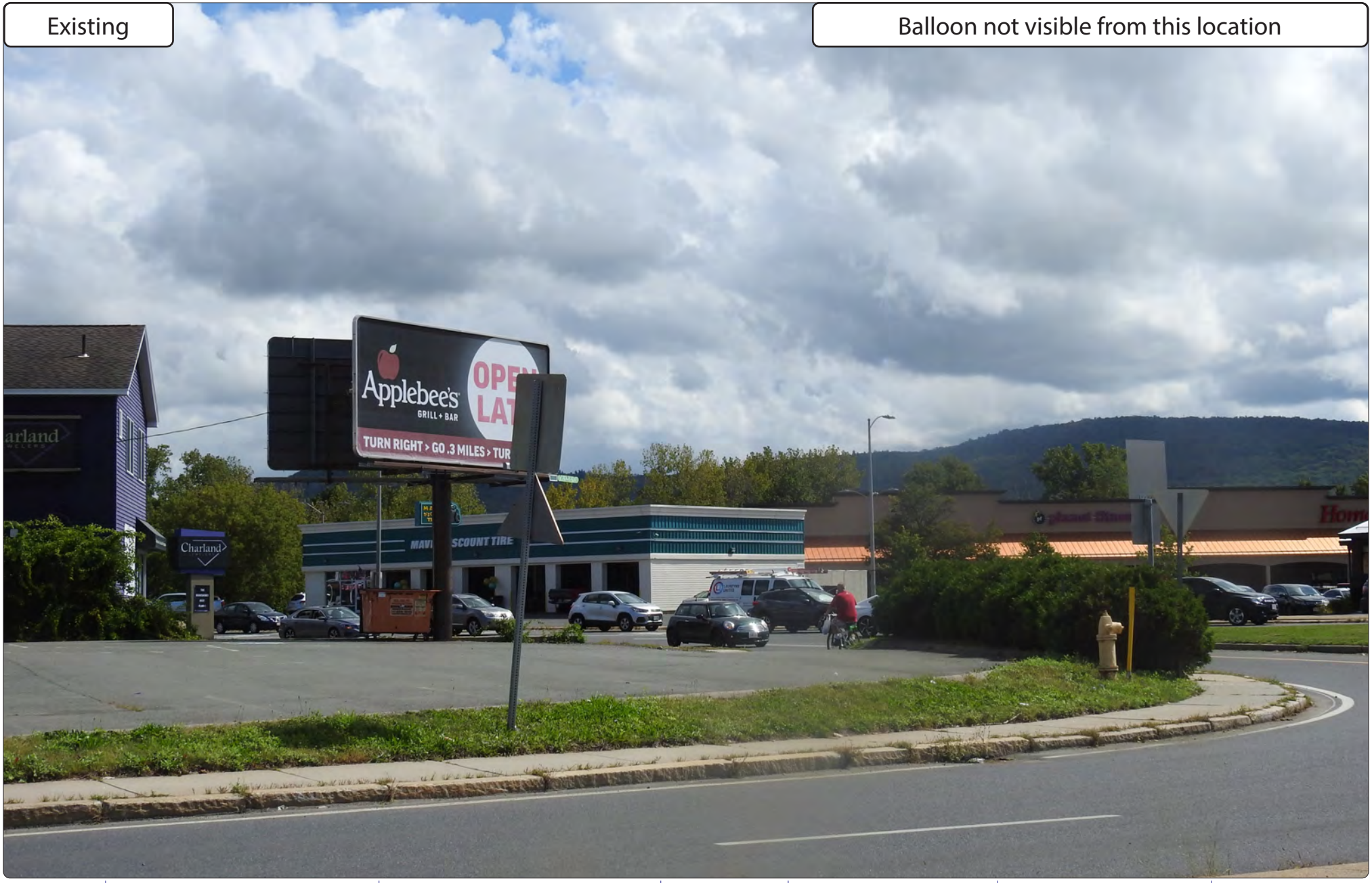

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
13	Cheshire Rd	42.46835	-73.20355	0.45 Miles	West	85	Not Visible

Site: MA2974 Pittsfield Hubbard Ave

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

VSS

SAI

at&t

Existing

Balloon not visible from this location

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
14	Dalton Ave	42.46724	-73.20355	0.46 Miles	West	76	Not Visible

Site: MA2974 Pittsfield Hubbard Ave

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

VSS

SAI

at&t

Existing

Balloon not visible from this location

Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
15	Industrial Park	42.45999	-73.19545	0.62 Miles	South	3	Not Visible

Site: MA2974 Pittsfield Hubbard Ave

VSS

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at&t

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C Squared Systems, LLC
65 Dartmouth Drive
Auburn, NH 03032
(603) 644-2800
support@csquaredsystems.com

Calculated Radio Frequency Emissions Report

MA2974

500 Hubbard Avenue, Pittsfield, MA 01201

January 19, 2024

Table of Contents

List of Figures

List of Tables

1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed installation of AT&T Mobility antenna arrays to be mounted at 107' AGL on a proposed monopole tower located at 500 Hubbard Avenue in Pittsfield, MA. The coordinates of the tower are 42-28-08 N, 73-11-41.07 W. Based on available information there are no collocated operators at this site.

AT&T Mobility is proposing to:

1) Install twelve (12) multi-band antennas (four per sector) to support the AT&T LTE network and the FirstNet National Public Safety Broadband Network ("NPSBN").

This report considers the antenna configuration[1] for AT&T's proposed installation to calculate the resulting % Maximum Permissible Exposure (MPE).

2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include Maximum Permissible Exposure (MPE) limits for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based upon those recommended by the National Council on Radiation Protection and Measurements (NCRP), developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

The FCC general population/uncontrolled limits set the maximum exposure to which most people may be subjected. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm^2). The general population exposure limits for the various frequency ranges are defined in the attached "FCC Limits for Maximum Permissible Exposure (MPE)" in Attachment C of this report.

Higher exposure limits are permitted under the occupational/controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure, and they must be able to exercise control over their exposure. General population/uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals. Attachment C contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit.

Finally, it should be noted that the MPE limits adopted by the FCC for both general population/uncontrolled exposure and for occupational/controlled exposure incorporate a substantial margin of safety and have been established to be well below levels generally accepted as having the potential to cause adverse health effects.

[1] As referenced to AT&T's Radio Frequency Design Sheet dated 01/17/2024.

3. RF Exposure Prediction Methods

The emission field calculation results displayed in the following figures were generated using the following formula as outlined in FCC bulletin OET 65:

$$\text{PowerDensity} = \left(\frac{EIRP}{\pi \times R^2} \right) \times \text{Off BeamLoss}$$

Where:

EIRP = Effective Isotropic Radiated Power

R = Radial Distance = $\sqrt{\left(H^2 + V^2\right)}$

H = Horizontal Distance from antenna in meters

V = Vertical Distance from radiation center of antenna in meters

Off Beam Loss is determined by the selected antenna patterns

Ground reflection factor of 2.0

These calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. Obstructions (trees, buildings, etc.) that would normally attenuate the signal are not taken into account. The calculations assume even terrain in the area of study and do not take into account actual terrain elevations which could attenuate the signal. As a result, the predicted signal levels reported below are much higher than the actual signal levels will be from the final installations.

4. Antenna Inventory

Table 1 below outlines AT&T Mobility's proposed antenna configuration for the site. The associated data sheets and antenna patterns for these specific antenna models are included in Attachments C.

Operator	Sector / Call Sign	TX Freq (MHz)	Power at Antenna (Watts)	Ant Gain (dBi)	Power EIRP (Watts)	Antenna Model	Beam Width	Mech. Tilt	Length (ft)	Antenna Centerline Height (ft)
AT&T	Alpha / 55°	700	160	15.6	5809	TPA65R-BU8D	73	0	8.0	107
		1900	240	18.1	15496		66			
		2100	240	18.3	16226		66			
		700	160	15.7	5945	OPA65R-BU8D	75	0	8.0	107
		850	160	16.6	7313		63			
		2300	100	18.3	6761		54			
		3500	54.22	25.65	19914	AIR 6419	11	0	2.35	107
		3700	86.75	25.65	31862	AIR 6419	11	0	2.35	107
	Beta / 160°	700	160	15.6	5809	TPA65R-BU8D	73	0	8.0	107
		1900	240	18.1	15496		66			
		2100	240	18.3	16226		66			
		700	160	15.7	5945	OPA65R-BU8D	75	0	8.0	107
		850	160	16.6	7313		63			
		2300	100	18.3	6761		54			
		3500	54.22	25.65	19914	AIR 6419	11	0	2.35	107
		3700	86.75	25.65	31862	AIR 6419	11	0	2.35	107
	Gamma / 270°	700	160	15.6	5809	TPA65R-BU8D	73	0	8.0	107
		1900	240	18.1	15496		66			
		2100	240	18.3	16226		66			
		700	160	15.7	5945	OPA65R-BU8D	75	0	8.0	107
		850	160	16.6	7313		63			
		2300	100	18.3	6761		54			
		3500	54.22	25.65	19914	AIR 6419	11	0	2.35	107
		3700	86.75	25.65	31862	AIR 6419	11	0	2.35	107

Table 1: Proposed Antenna Inventory[2][3]

[2] Antenna heights are in referenced to AT&T's Radio Frequency Design Sheet dated 01/18/2024.

[3] Transmit power assumes 0 dB of cable loss.

5. Calculation Results

The calculated power density results are shown in Figure 1 below. For completeness, the calculations for this analysis range from 0 feet horizontal distance (directly below the antennas) to a value of 2,000 feet horizontal distance from the site. In addition to the other worst-case scenario considerations that were previously mentioned, the power density calculations to each horizontal distance point away from the antennas was completed using a local maximum off beam antenna gain (within ± 5 degrees of the true mathematical angle) to incorporate a realistic worst-case scenario.

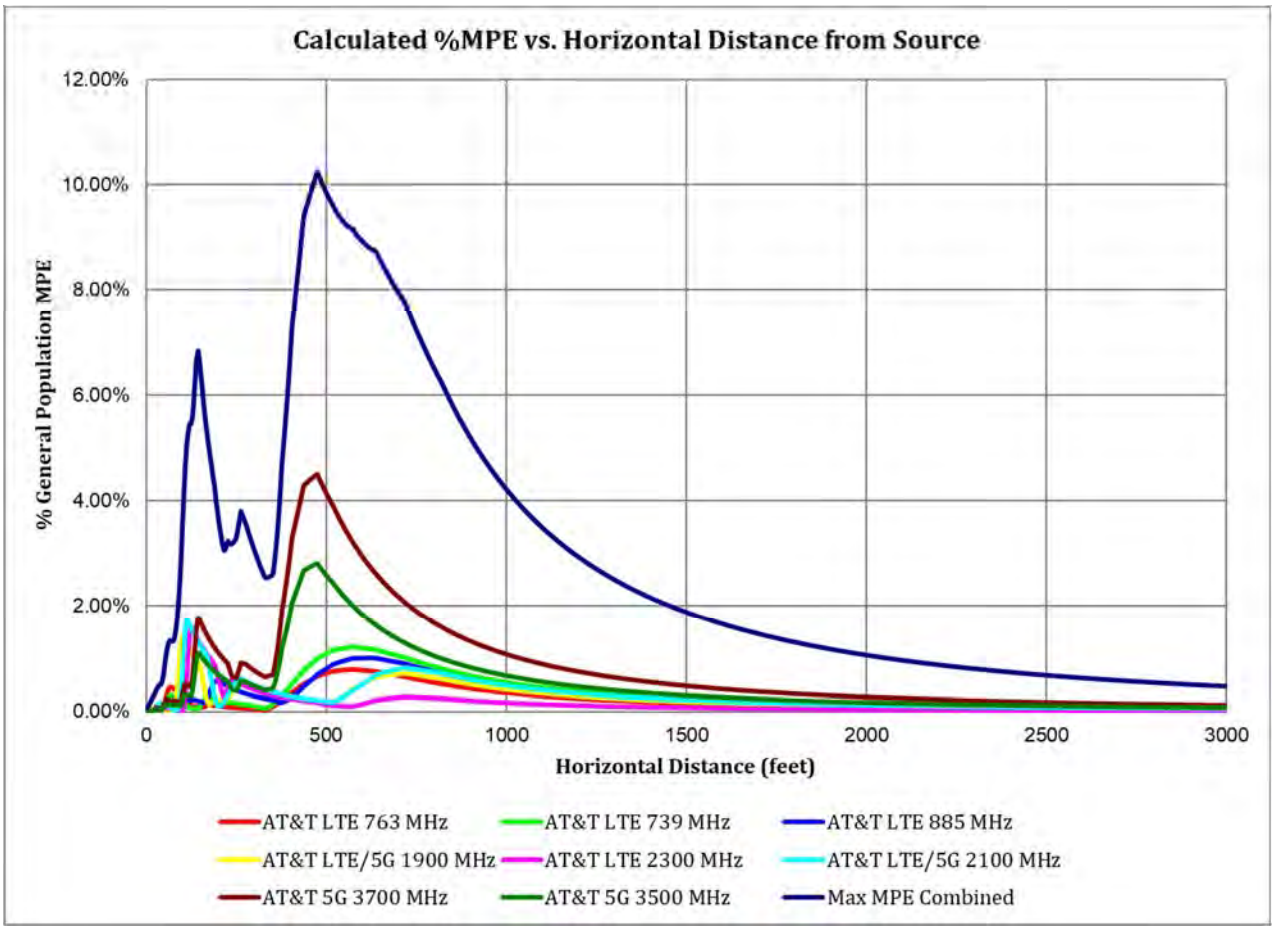


Figure 1: Graph of General Population % MPE vs. Distance

The highest percent of MPE (10.25% of the General Population limit) is calculated to occur at a horizontal distance of 475 feet from antennas. Please note that the percent of MPE calculations close to the site take into account off beam loss, which is determined from the vertical pattern of the antennas used. Therefore, RF power density levels may increase as the distance from the site increases. At distances of approximately 1000 feet and beyond, one would now be in the main beam of the antenna pattern and off beam loss is no longer considered. Beyond this point, RF levels become calculated solely on distance from the site and the percent of MPE decreases significantly as distance from the site increases.

Table 2 below lists percent of MPE values as well as the associated parameters that were included in the calculations. The highest percent of MPE value was calculated to occur at a horizontal distance of 475 feet from the site (reference Figure 1).

As stated in Section 3, all calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. Obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. In addition, a six foot height offset was considered in this analysis to account for average human height. As a result, the predicted signal levels are significantly higher than the actual signal levels will be from the final configuration. The results presented in Figure 1 and Table 2 assume level ground elevation from the base of the tower out to the horizontal distances calculated.

Carrier	Number of Transmitters	Power out of Base Station Per Transmitter (Watts)	Antenna Height (Feet)	Distance to the Base of Antennas (Feet)	Power Density (mW/cm^2)	Limit (mW/cm^2)	% MPE
AT&T 5G 3500 MHz	1	54.2	107.0	475	0.028120	1.000	2.81%
AT&T 5G 3700 MHz	1	86.8	107.0	475	0.044991	1.000	4.50%
AT&T LTE 2300 MHz	1	100.0	107.0	475	0.001743	1.000	0.17%
AT&T LTE 739 MHz	1	240.0	107.0	475	0.004917	0.493	1.00%
AT&T LTE 763 MHz	1	160.0	107.0	475	0.003355	0.509	0.66%
AT&T LTE 885 MHz	1	240.0	107.0	475	0.004097	0.590	0.69%
AT&T LTE/5G 1900 MHz	1	240.0	107.0	475	0.001997	1.000	0.20%
AT&T LTE/5G 2100 MHz	1	240.0	107.0	475	0.002091	1.000	0.21%
						Total	**10.25%**

Table 2: Maximum Percent of General Population Exposure Values[4] [5]

[4] Frequencies listed are representative of the operating band and are not the specific operating frequency.

[5] The total % MPE listed is a summation of each unrounded contribution. Therefore, summing each rounded value may not reflect the total value listed in the table.

6. Conclusion

The above analysis verifies that RF exposure levels from the site with AT&T's proposed antenna configuration will be well below the maximum permissible levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Using the conservative calculation methods and parameters detailed above, the maximum cumulative percent of MPE in consideration of all transmitters is calculated to be **10.25% of the FCC limit (General Population/Uncontrolled)**. This maximum cumulative percent of MPE value is calculated to occur 475 feet away from the site.

7. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The calculations follow guidelines set forth in ANSI/IEEE Std. C95.3, ANSI/IEEE Std. C95.1 and FCC OET Bulletin 65 Edition 97-01.

Report Prepared By: Ram Acharya
RF Engineer
C Squared Systems, LLC

January 18, 2024
Date

Reviewed/Approved By: Martin J. Lavin
Senior RF Engineer
C Squared Systems, LLC

January 19, 2024
Date

Attachment A: References

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

IEEE C95.1-2005, IEEE Standard Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz IEEE-SA Standards Board

IEEE C95.3-2002 (R2008), IEEE Recommended Practice for Measurements and Computations of Radio Frequency Electromagnetic Fields With Respect to Human Exposure to Such Fields, 100 kHz-300 GHz IEEE-SA Standards Board

Attachment B: FCC Limits for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure[6]

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	($900/f^2$)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6

(B) Limits for General Population/Uncontrolled Exposure[7]

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz * Plane-wave equivalent power density

Table 3: FCC Limits for Maximum Permissible Exposure

[6] Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

[7] General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

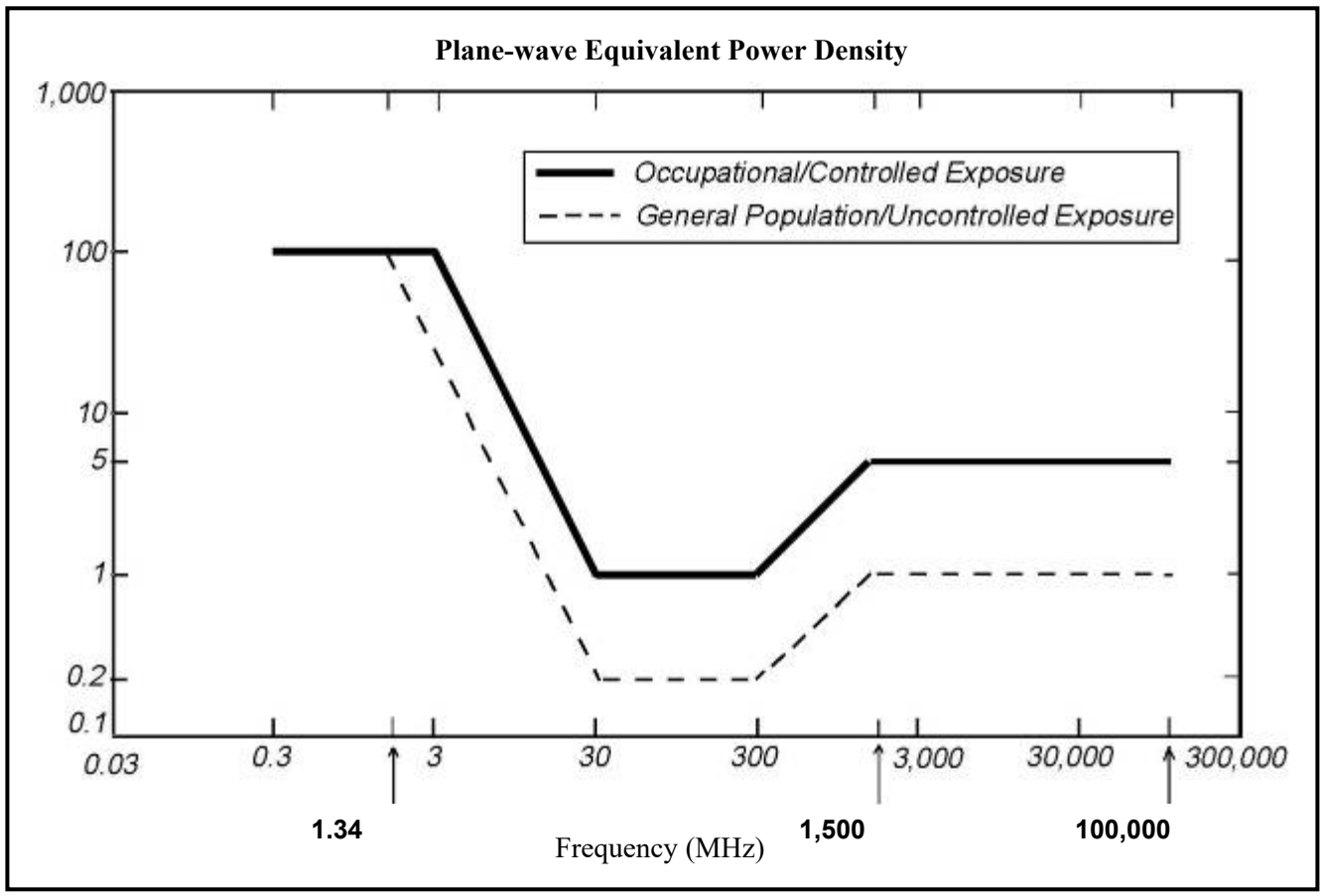
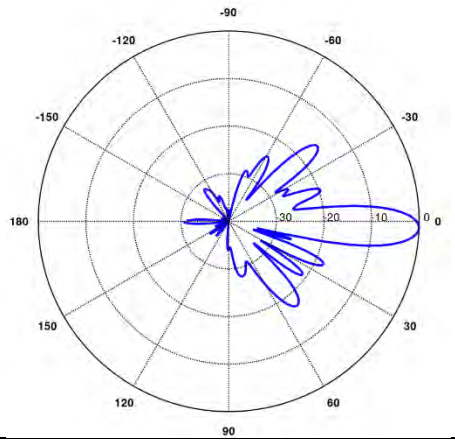


Figure 2: Graph of FCC Limits for Maximum Permissible Exposure (MPE)

Attachment C: AT&T Mobility Antenna Model Data Sheets and Electrical Patterns

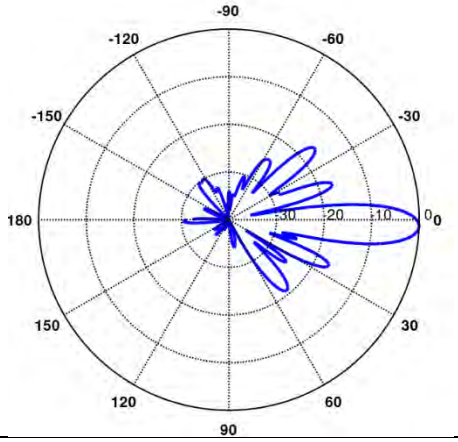
763 MHz

Manufacturer:	CCI
Model #:	TPA65R-BU8DA
Frequency Band:	698-806 MHz
Gain:	15.6 dBi
Vertical Beamwidth:	9.5°
Horizontal Beamwidth:	73°
Polarization:	Dual Linear 45°
Dimensions (L x W x D):	96” x 21.0” x 7.8”



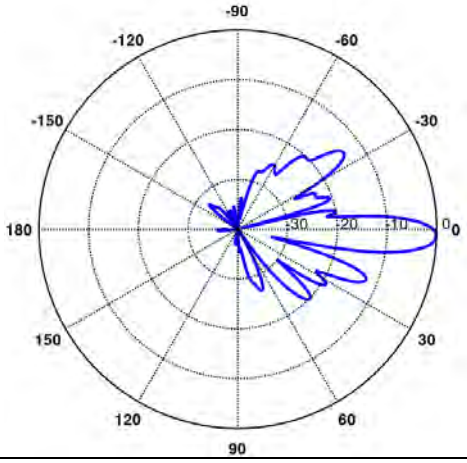
739 MHz

Manufacturer:	CCI
Model #:	OPA65R-BU8D
Frequency Band:	698-806 MHz
Gain:	15.7 dBi
Vertical Beamwidth:	9.5°
Horizontal Beamwidth:	75°
Polarization:	Dual Linear 45°
Dimensions (L x W x D):	96” x 20.7” x 7.7”



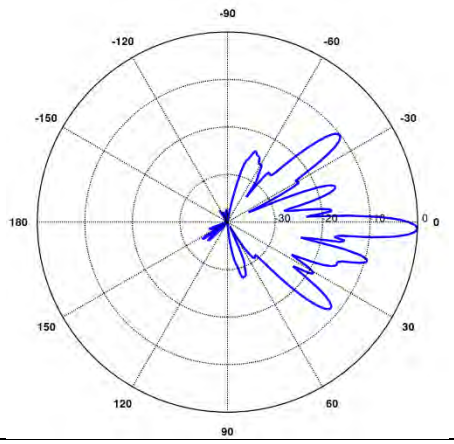
850 MHz

Manufacturer:	CCI
Model #:	OPA65R-BU8D
Frequency Band:	824-896 MHz
Gain:	16.6 dBi
Vertical Beamwidth:	8.0°
Horizontal Beamwidth:	63°
Polarization:	Dual Linear 45°
Dimensions (L x W x D):	96” x 20.7” x 7.7”



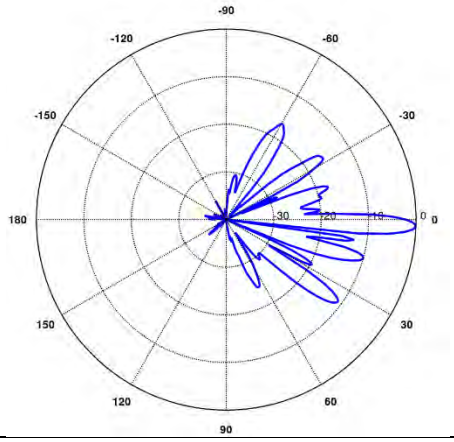
1900 MHz

Manufacturer:	CCI
Model #:	TPA65R-BU8DA
Frequency Band:	1850-1990 MHz
Gain:	18.1 dBi
Vertical Beamwidth:	5.1°
Horizontal Beamwidth:	66°
Polarization:	Dual Linear 45°
Dimensions (L x W x D):	96” x 21.0” x 7.8”



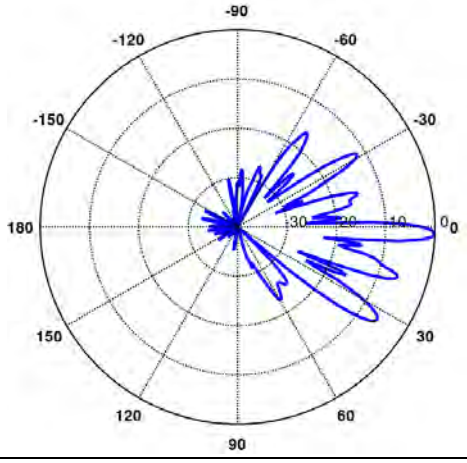
2100 MHz

Manufacturer:	CCI
Model #:	TPA65R-BU8DA
Frequency Band:	1920-2180 MHz
Gain:	18.3 dBi
Vertical Beamwidth:	4.8°
Horizontal Beamwidth:	66°
Polarization:	Dual Linear 45°
Dimensions (L x W x D):	96” x 21.0” x 7.8”



2300 MHz

Manufacturer:	CCI
Model #:	OPA65R-BU8D
Frequency Band:	2300-2400 MHz
Gain:	18.3 dBi
Vertical Beamwidth:	4.1°
Horizontal Beamwidth:	54°
Polarization:	Dual Linear 45°
Dimensions (L x W x D):	96” x 20.7” x 7.7”



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Radio Frequency Analysis Report

MA2974

500 Hubbard Avenue, Pittsfield, MA

January 19, 2024

TABLE OF CONTENTS

LIST OF TABLES

ATTACHMENTS

1. Overview

This RF Report has been prepared on behalf of New Cingular Wireless PCS, LLC ("AT&T") in support of the pending application for a proposed wireless telecommunications facility at 500 Hubbard Avenue in the City of Pittsfield, Massachusetts. The proposed facility is needed to fill a coverage gap that will be created in AT&T's network within the City of Pittsfield upon the removal of AT&T's temporary wireless facility at 500 Hubbard Avenue. The proposed facility will also provide prioritized, preemptive wireless services for first responders.

AT&T proposes to install a wireless facility on a proposed 111' monopole tower at 500 Hubbard Avenue at centerline elevation of 107 feet above ground level ("AGL"). The proposed location has been selected to address a substantial gap in 4G LTE coverage for AT&T's network in the area when the temporary facility is decommissioned.

This report concludes that the proposed site will serve as an adequate replacement to the coverage and capacity that will be lost in Pittsfield when AT&T's temporary facility located at 500 Hubbard Avenue is decommissioned. The areas at risk of becoming gaps in service include Route 9, Hubbard Avenue, Highview Drive, Berkshire Crossing Retail Center and the surrounding areas in the proximity of the existing and temporary replacement site.

Included as Attachments in this report are coverage maps detailing the temporary network and expected coverage from the proposed facility, pertinent site information, a terrain map, and a network layout map.

2. Introduction

AT&T is licensed by the FCC to provide wireless communications services throughout the Northeast Region including Berkshire County and the City of Pittsfield, MA. AT&T provides digital voice and data services using 4th Generation (4G) LTE technology in the 700 MHz, 850 MHz (Cellular), 1900 MHz (PCS), 2100 MHz (AWS), and 2300 MHz (WCS) bands, as allocated by the FCC, and is deploying advanced 5th Generation (5G NR) services in the 700 MHz, 850 MHz, 1900 MHz, 2100 MHz, 2300 MHz and C-band, 3500 MHz, The 4G LTE network builds on the previous 3G data services that utilized UMTS technology. These data networks are used by mobile devices for fast web browsing, media streaming, and other applications that require broadband connections. As part of AT&T's network expansion and enhancement in Massachusetts and elsewhere in the United States, AT&T is filling in existing coverage gaps and addressing capacity, interference, and high-speed broadband issues. The mobile devices that benefit from these advanced data networks are not limited to basic handheld phones, but also include devices such as smartphones, tablets, and laptop air-cards. With the evolving rollout of 5G NR services and devices, AT&T customers will have even faster connections to people, information, and entertainment.

AT&T's network requires the strategic deployment of antenna structures throughout the area to be covered, which are connected to receivers and transmitters that operate in a limited geographic area known as a "cell". Mobile subscriber handsets and wireless devices operate by transmitting and receiving low power radio frequency signals to and from these cell sites. The signals are transferred through ground telephone lines (or other means of backhaul transport) and routed to their destinations by sophisticated electronic equipment. The size of the area served by each cell site is dependent on several factors including the number of antennas used, the height at which the antennas are deployed, the topography of the surrounding land, vegetative cover, and natural or man-made obstructions in the area. As customers move throughout the service area, the transmission from the portable device is automatically transferred to the AT&T facility with the best reception, without interruption in service, provided that there is overlapping coverage between the cells.

In order for AT&T's network to function effectively, there must be adequate overlapping coverage between the "serving cell" and "adjoining cells". This not only allows access to the network, but once connected allows for the transfer or "hand-off' of calls from one cell to another and prevents involuntary disconnections or "dropped calls." AT&T's antennas also must be located high enough above ground level to allow transmission (a.k.a. propagation) of the radio frequency signals above trees, buildings and other natural or man-made structures that may obstruct or diminish the signals. Areas without adequate radio frequency coverage have substandard service characterized by poor voice quality, dropped and blocked calls, slow data connections and transmissions, or no wireless service at all. These areas are commonly referred to as "coverage gaps."

We have concluded that by utilizing the proposed facility at an antenna centerline height of 107 feet AGL, AT&T will be able to provide adequate replacement coverage and capacity to the residents, businesses, and traffic corridors within Pittsfield that would otherwise be located within gaps in service of AT&T's network after its temporary facility at 500 Hubbard Avenue is taken out of service.

3. Coverage Objectives

As mentioned above, AT&T's proposed facility will replace the coverage and capacity that will be lost in Pittsfield when the temporary facilities at 500 Hubbard Avenue is taken out of service. The proposed facility is intended to maintain or improve the quality of service currently provided to this area of the city.

AT&T currently operates wireless facilities like the proposed facility within Pittsfield and the surrounding cities/towns. Due in large part to the distances between the surrounding sites, the intervening topography, and volume of user traffic in the area, these facilities would not provide adequate service to this area of Pittsfield. Specifically, AT&T determined that Pittsfield will be without reliable service after the "MA5079" site at 500 Hubbard Avenue is removed from service in the following areas and city roads, including but not limited to:

- Route 9
- Hubbard Avenue
- Highview Drive
- Berkshire Crossing Retail Center
- The surrounding residential neighborhoods and businesses, which are currently within this coverage gap of AT&T's network.

By installing the proposed wireless communication facility on the proposed monopole at 500 Hubbard Avenue, AT&T will be able to provide significant coverage improvement and improved network quality and reliability for AT&T subscribers and first responders located in these areas of Pittsfield.

4. Pertinent Site Data

Table 2 below details the site-specific information used to perform the coverage analysis and generate the coverage plots provided herein.

Site Name	Address	City/State	Location		Antenna Height (ft. AGL)	Structure Type	Status
			Latitude	Longitude			
MA5020	258 NORTH STREET	DALTON	42.4791	-73.1529	115	Stealth Pole	On-Air
MA5051	65 OLD CHESHIRE ROAD	LANESBOROUGH	42.5208	-73.2165	178.1	Lattice Tower	On-Air
MA5054	TAMARACK ROAD	PITTSFIELD	42.4125	-73.2852	134	Lattice Tower	On-Air
MA5079	500 HUBBARD AVENUE	PITTSFIELD	42.4690	-73.1945	112	Monopole	On Air/Decomm
MA5085	165 TOR COURT	PITTSFIELD	42.4581	-73.2811	78	Rooftop	On-Air
MA5185	OFF PARTRIDGE ROAD	LANESBORO	42.4919	-73.2183	138	Monopole	On-Air
MA5199	450 MICHAELS ROAD	HINSDALE	42.4218	-73.1160	150	Monopole	On-Air
MA5215	1 WEST STREET	PITTSFIELD	42.4479	-73.2553	161	Rooftop	On-Air
MA4429	39 LAKEWOOD DRIVE	PITTSFIELD	42.4754	-73.2680	200	Guyed Tower	On-Air
MA2952	55 GRAND AVENUE	PITTSFIELD	42.4500	-73.2139	170	Guyed Tower	On-Air
MA2974	**500 HUBBARD AVENUE**	**PITTSFIELD**	**42.4690**	**-73.1945**	**107**	**Monopole**	**Proposed**

Table 1: AT&T Site Information Used in Coverage Analysis[1]

[1] Some sites listed in this table are outside the plot view but are included for completeness of information.

5. Coverage Analysis and Propagation Plots

The radio frequency coverage plots provided in this report were produced using deciBel Planner™, a Windows-based RF propagation computer modeling program and network planning tool. The software considers the topographical features of an area, land cover, antenna models, antenna heights, RF transmitting power and receiver thresholds to predict coverage and other related RF parameters used in site design and wireless network expansion.

While AT&T holds licenses in the 700 MHz, 850 MHz (Cellular), 1900 MHz (PCS), 2100 MHz (AWS), and 2300 MHz (WCS) bands and 5G NR, this report focuses on the 700 MHz layer, which is representative of the 4G LTE service most readily available to AT&T subscribers in the area, and are the spectrum layers that are essential to AT&T's ability to address the coverage needs for their 4G LTE service offerings. It is relevant to note that the 700 MHz coverage layer, which serves as the "base" layer for the LTE service, has a substantially larger coverage footprint due to the propagation characteristics of the frequency band. The 1900 MHz, 2100 MHz, and 2300 MHz overlay layers will have incrementally smaller footprints and are used by AT&T to manage capacity.

The plots included as attachments show coverage based on the minimum required signal strength needed to support reliable 4G LTE service in this area. All other areas (depicted in white) fall within coverage areas characterized by poor voice and data quality, slow data speeds, high latency , and the substantial likelihood of unreliable service.

Attachments 1-8 below describe AT&T's network in and around the targeted area of Pittsfield and the need for the proposed facility.

- Attachment 1 titled: "MA2974 - Neighbor Sites & Radial Distances" provides an overview of AT&T's network of sites in the area, with distances shown from the proposed site to AT&T sites in the surrounding area.

- Attachment 2 titled: " MA2974 — Area Terrain Map " details the terrain features around the targeted area of deficient service intended to be served by the proposed site in Pittsfield. These terrain features play a key role in determining site designs and dictating the unique coverage achieved from a given location. This map is included to provide a visual representation of the topography that must be considered when siting a wireless facility. The blue and green shades correspond to lower ground elevations, whereas the yellow, red, and grey shades indicate higher ground elevations.

- Attachment 3 titled: "MA2974 – Existing 700 MHz LTE Coverage" depicts the 700 MHz LTE coverage provided from existing sites listed in Table 1. The coverage shown is where the signal strengths are: > -83 dBm (minimum required for reliable, high quality service and performance at 700 MHz) and, > -93 dBm (minimum required for adequate level of service at 700 MHz). In an effort to provide the required levels of coverage to these areas, AT&T is proposing to install a wireless facility on the proposed monopole located at 500 Hubbard Avenue in Pittsfield, at centerline elevation of 107 feet AGL.

- Attachment 4: titled: " MA2974 - Existing 700 MHz LTE Coverage without MA5079" shows the surrounding coverage without the "MA5079" temporary facility after it is removed from service. As shown in this plot, decommissioning the temporary site without a replacement would open coverage gaps in Pittsfield along State Highway 109, Hubbard Avenue, Highview Drive and the surrounding area as follows:
    - ~ 1.4 miles along State Hwy 9;
    - ~ 0.6 mile along Hubbard Avenue;
    - ~ 0.4 mile along Highview Drive
- Attachment 5 titled: " MA2974 – Existing 700 MHz LTE Coverage with Proposed Site" shows how this proposed site would help fill in the coverage gaps created when the "MA5079" site is taken out of service and improve AT&T's 700 MHz LTE network within the targeted areas. As shown by the additional areas of coverage in comparison with Attachment 3, the proposed facility will provide coverage to:
    - ~ 2.0 miles along Route 9;
    - ~ 0.7 miles along Hubbard Avenue;
    - ~ 0.4 mile along Highview Drive;
    - ~ 150 additional residents and ~ 170 additional employees within the surrounding area at -93 dBm for the 700 MHz frequency;
    - The surrounding roads, neighborhoods, and major business areas within the proximity of the proposed site;

6. Summary

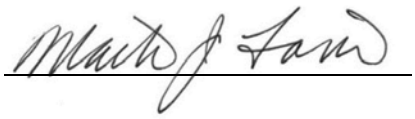
AT&T's temporary facility will be decommissioned, and a permanent facility is needed to maintain reliable service throughout areas of Pittsfield, MA. Collocating at 500 Hubbard Avenue with an antenna centerline of 107 feet AGL will replace coverage and capacity needed in the targeted areas including key roadways such as Route 9, Hubbard Avenue, Highview Drive, major businesses and the surrounding neighborhoods in Pittsfield.

As discussed in this report and depicted in the attached plots, the proposed AT&T site will address the public need for service in this area, by providing an appropriate coverage footprint for the Pittsfield community along with effective proposed connectivity to the rest of AT&T existing network.

Without a permanent site in this area, at the height requested, significant gaps in service will exist within the City of Pittsfield, and the identified public need for reliable wireless services in this area will not be met; therefore, AT&T respectfully request that the City of Pittsfield act favorably upon the proposed facility.

7. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate.



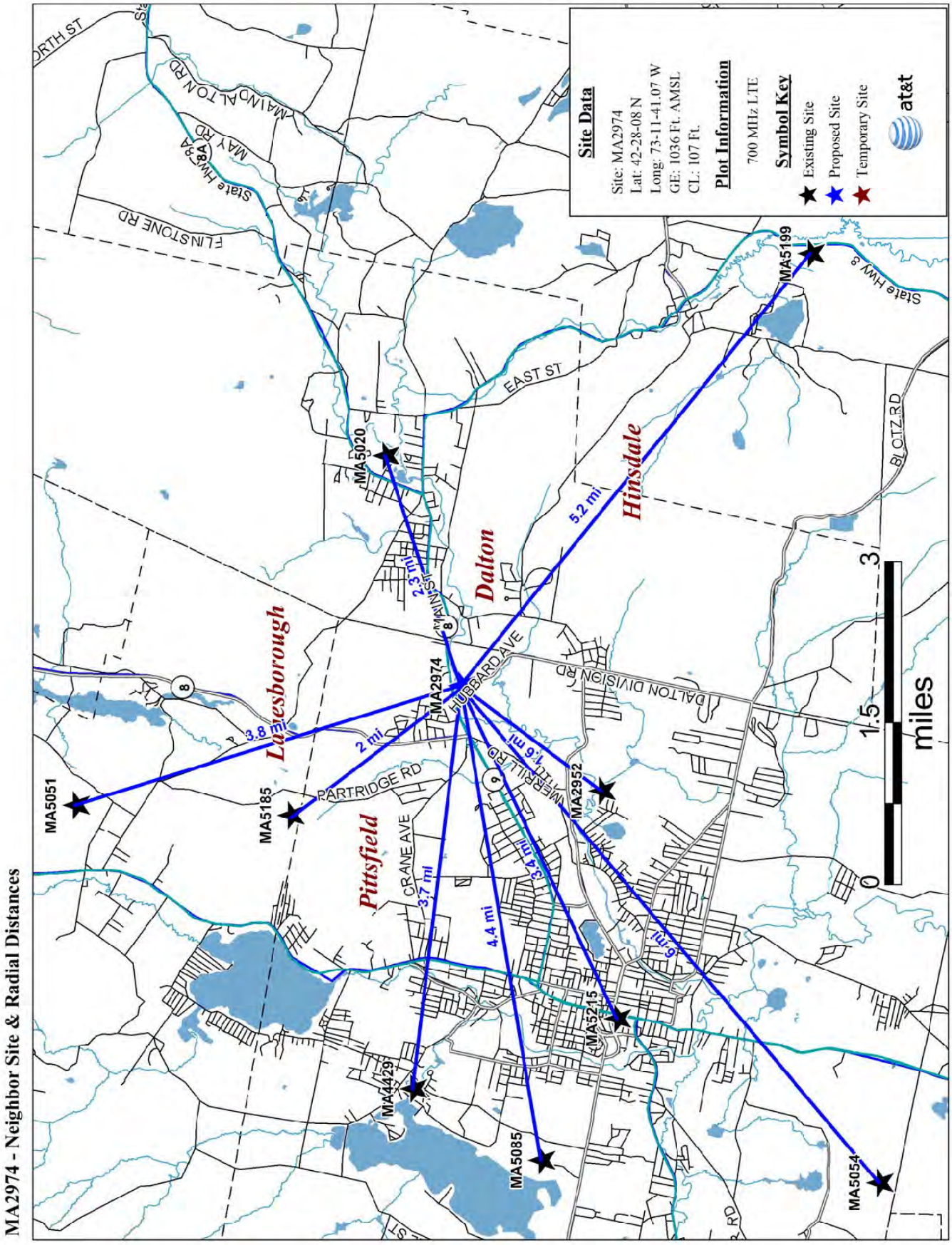
January 19, 2024

Martin J. Lavin
C Squared Systems, LLC

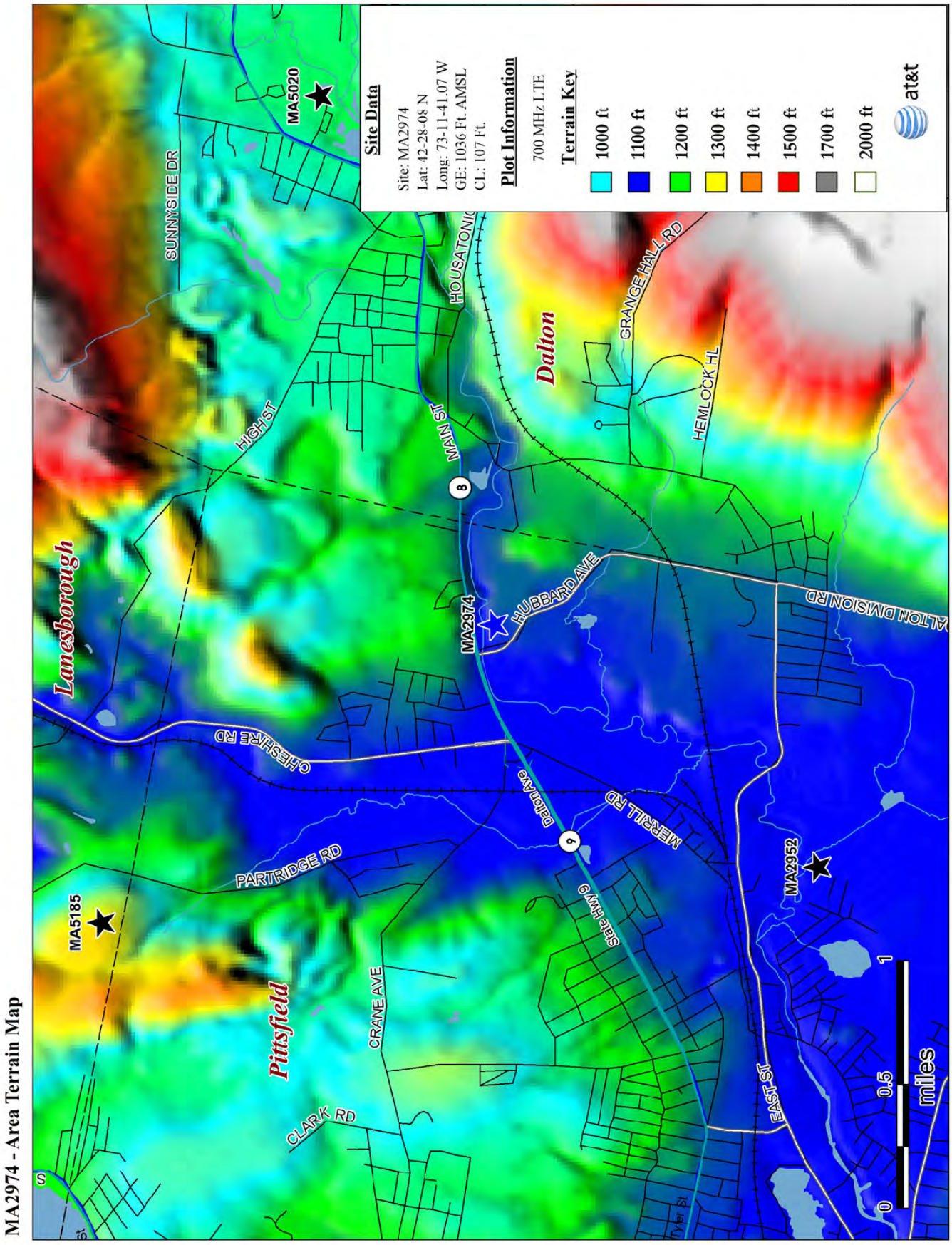
Date

8. Attachments

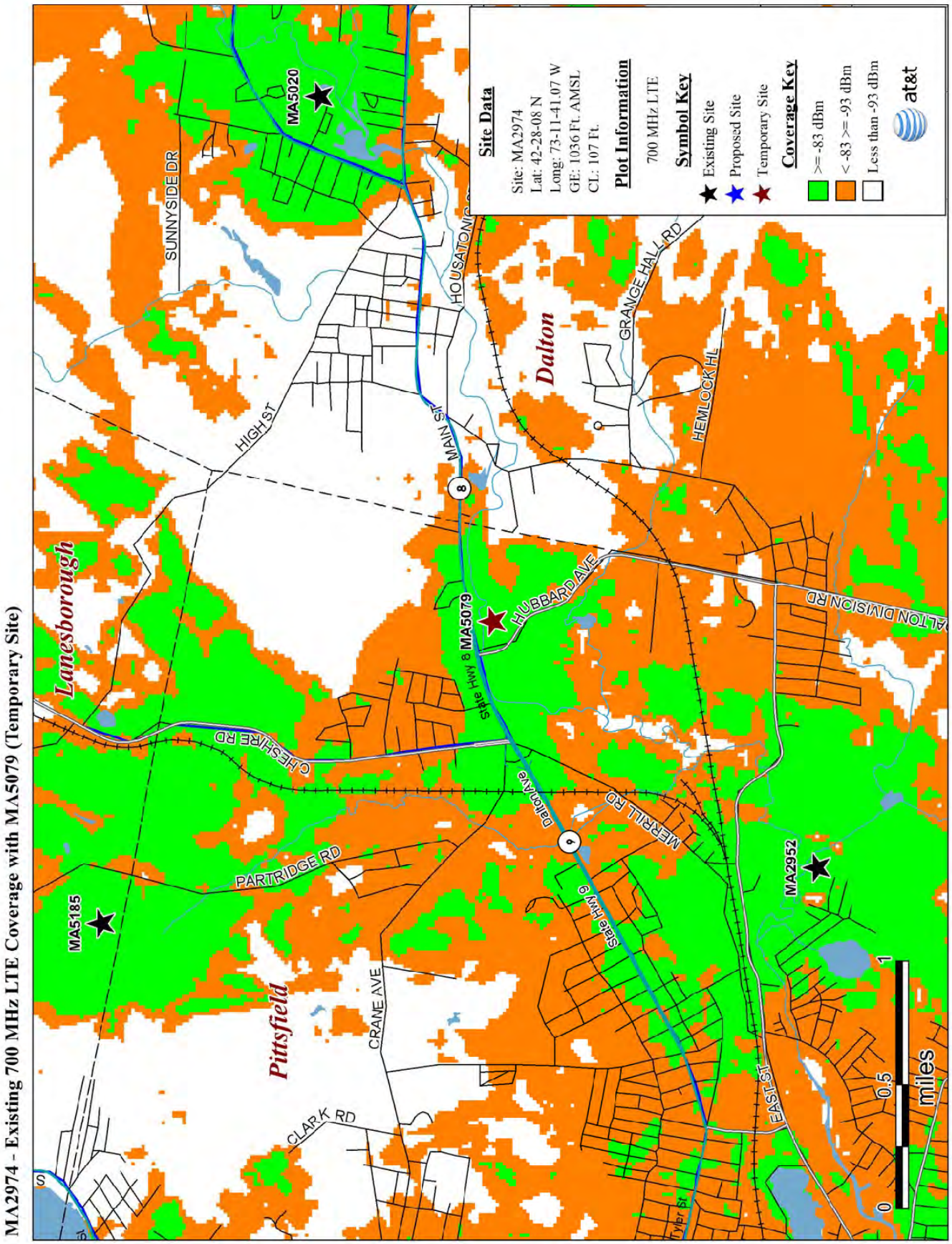
Attachment 1: MA2974 - Neighbor Sites & Radial Distances



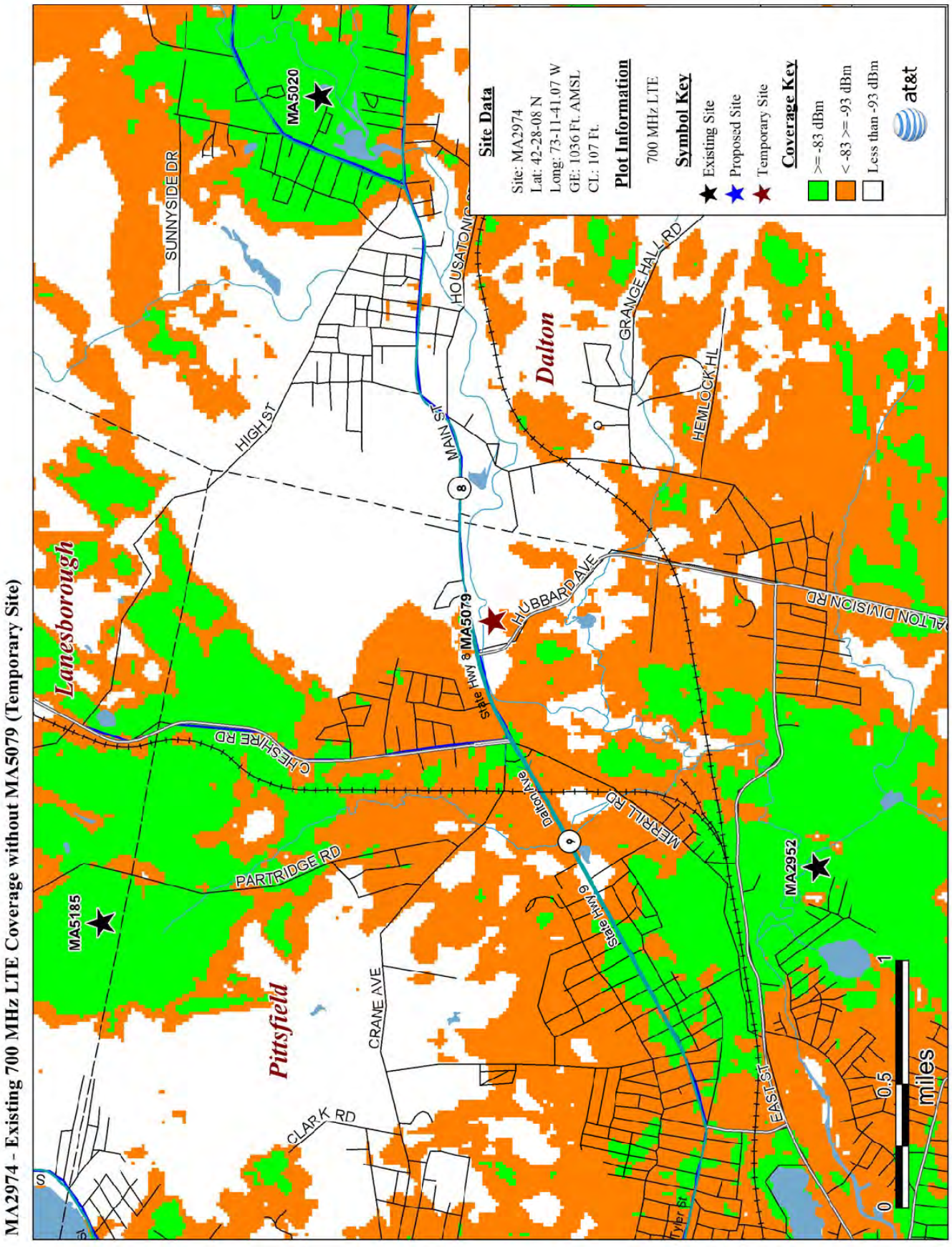
Attachment 2: MA2974 – Area Terrain Map



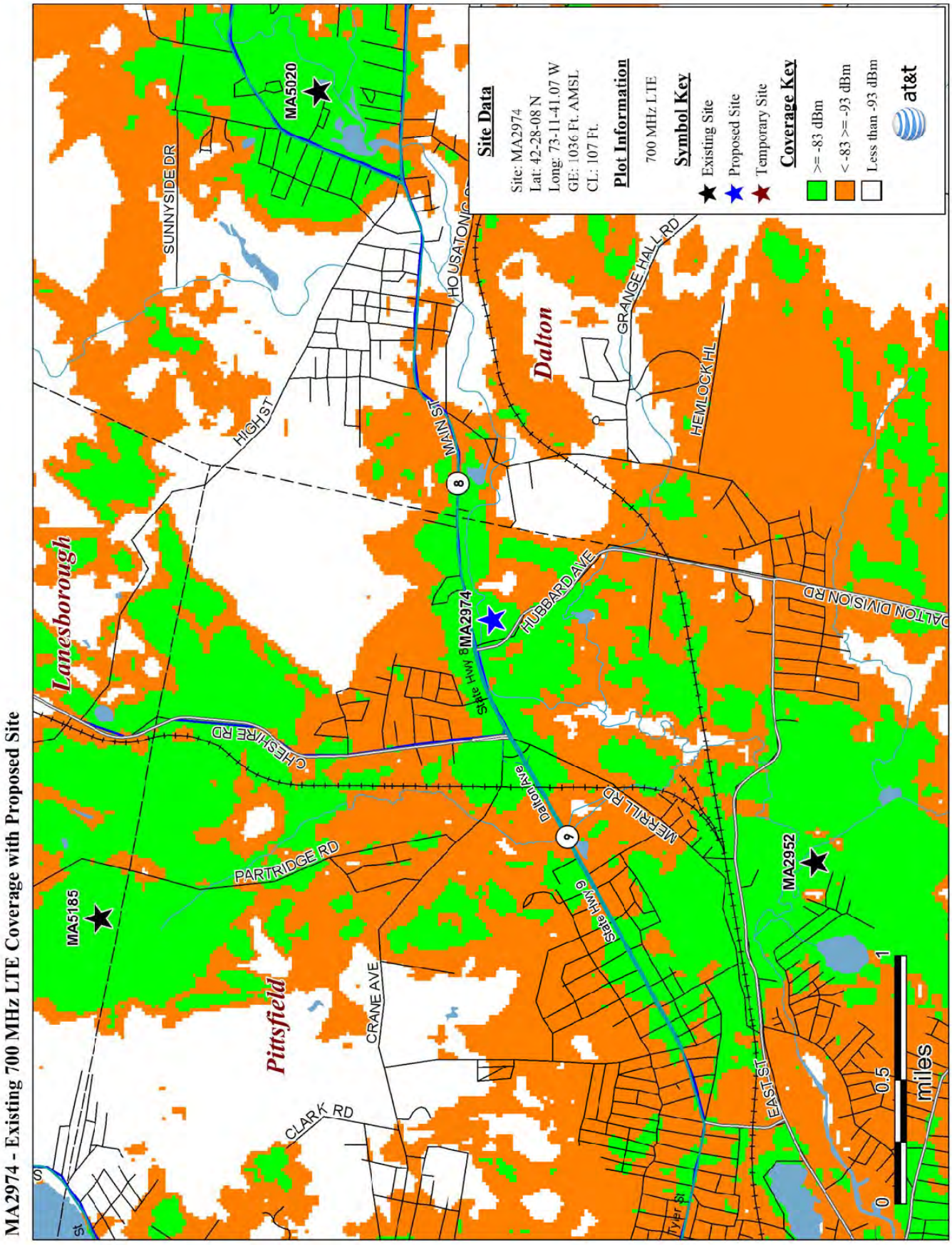
Attachment 3: MA2974 – Existing 700 MHz LTE Coverage with MA5079



Attachment 4: MA2974 - Existing 700 MHz LTE Coverage without MA5079

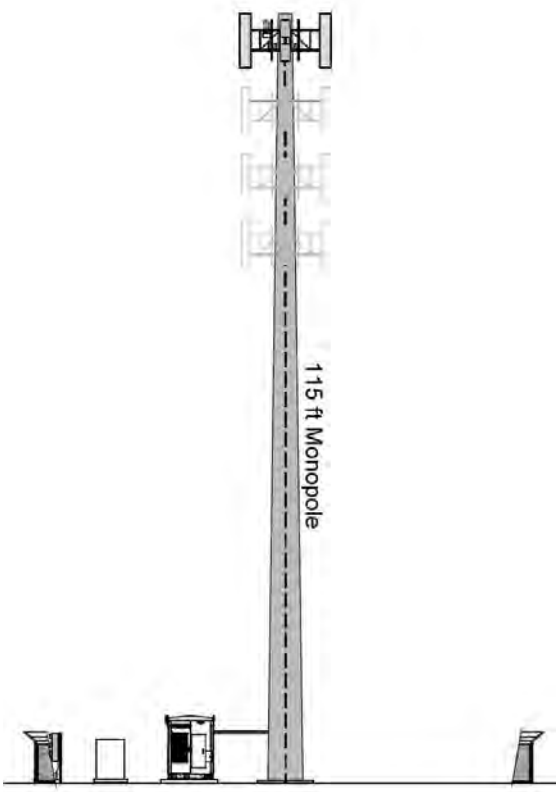


Attachment 5: MA2974 – Existing 700 MHz LTE Coverage with Proposed Site



11

Environmental Sound Assessment



Permanent
Wireless Communications Tower

500 Hubbard Avenue
Pittsfield, Massachusetts 02368

January 8, 2024

Prepared For:

AT&T
550 Cochituate Road
Suites 13 & 14
Framingham, MA 01701

Prepared By:

Modeling Specialties
30 Maple Road
Westford, MA 01886

ENVIRONMENTAL SOUND ASSESSMENT

AT&T has long operated a Wireless Telecommunications Facility at 500 Hubbard Avenue, Pittsfield, MA to support wireless communications in the area. The installation formerly included smokestack-mounted antennas with various utilities and electronics cabinets in a fenced compound in the rear of the existing industrial facility. Due to the unrelated removal of the smokestack, the facility is currently supported by a temporary tower near where the electronics compound was located.

The current project represents a permanent compound planned for replacement of the temporary facility. AT&T plans to build a permanent 115 ft cell tower to support the facility antennas along with new supporting equipment and electronics within a fenced compound at the foot of the tower. The permanent facility is designed to accommodate AT&T equipment along with three additional carriers. Neither the former, existing or future antennas have any potential to emit environmental sound. In fact, most of the facility equipment emits no sound, such the antennas, cable trays, utilities, power pedestal and infrastructure. These features are shown in the graphics but not analyzed in detail in this study. The purpose of this study is to identify the equipment that has the potential to emit sound and analyze it with respect to the standards provided in the Pittsfield Zoning Code. This study is based on the Project Drawings issued by the TEP Northeast dated December 15, 2023.

Overview of Area Sources and Measurements

The project is located at an industrial facility along the East Branch Housatonic River. Modeling Specialties evaluated the ambient sound field from the former AT&T equipment and the existing temporary facility in January 2023. Those observations are used in this study as the baseline sound levels were dominated by sources that have not changed since the survey. Sound level measurements were made using a Rion NA-28 sound level meter. This meter was fitted with a factory recommended three-inch foam windscreen and placed on a tripod approximately 5-feet above the ground. The standardized meter meets the requirements of ANSI S1.4 for Type 1 - Precision sound level meters. It was field calibrated before and after the survey using a Larsen Davis Cal-200 Acoustic Calibrator. Field calibration showed that the meter did not drift during the study. Meteorological conditions during the early morning survey included overcast clouds, a temperature of 16º F with a light breeze from the north. Weather conditions were measured at the beginning of the survey. Similar conditions were observed during the nighttime survey with calm air. Figure 1 is an overlay on an aerial view of the host property showing the proposed compound as well as the former and current features.

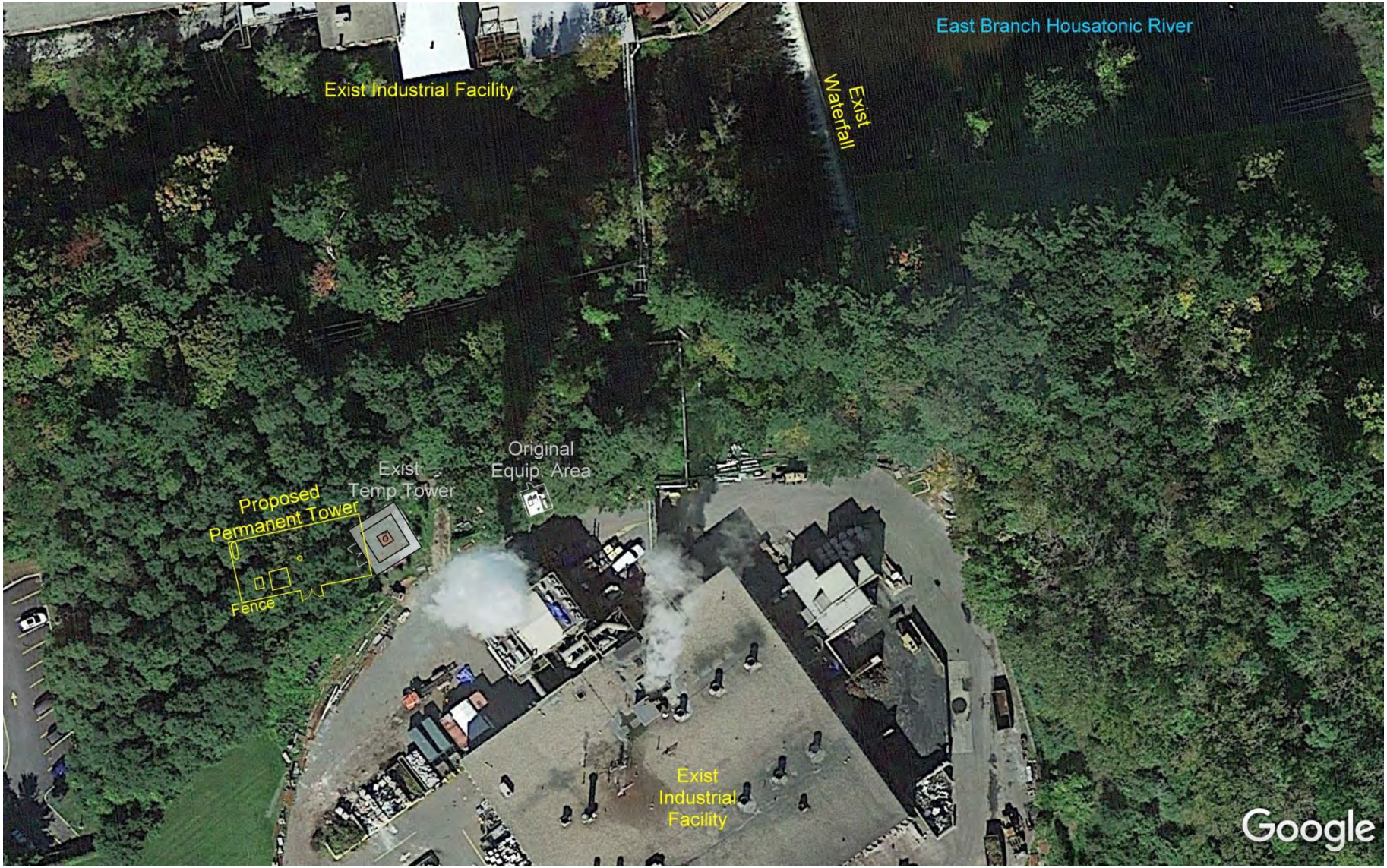


Figure 1: Aerial View of the Existing Industrial Facility Showing the Existing and Proposed Tower Locations.

Applicable Sound Standards

Pittsfield Regulations Chapter 23 Zoning regulates environmental performance standards at *Section 4.315 Performance Standards*.

Subsection D.1 addresses Noise (in general):

A. Maximum Permitted Sound Pressure Levels:

Octave Band Center Freq Of Measurement (Hz)	Level in Decibels
31.5	79
63	78
125	73
250	68
500	62
1000	56
2000	51
4000	47
8000	44

NOTES:
1. Acoustical Terminology is that most recently approved by the American National Standards Institute (ANSI).
2. Reference pressure shall be 0.0002 microbars.
3. Hz is the abbreviation for Hertz, which means cycles per second.
4. For preliminary survey and monitoring only, the approximate single number, 65 dB(A) may be used.
5. dB(A) shall mean A-weighted sound pressure level in decibels as measured on a general-purpose sound level meter complying with the provisions of American Standard for General Purpose Sound Level Meters (S1.4 – 1971), ANSI, properly calibrated and operated on "A weighting network.

Pittsfield Chapter 23 Zoning also contains at Section 4.322 specific performance standards for Wireless Communication Facilities (added 1-8-2019). Section J.c. addresses wireless facilities for Antenna Element Replacement or Modification.

Section c. Sounds states: No unusual sound emissions such as alarms, bells, buzzers, or the like are permitted. Emergency generators are allowed. Sound levels shall not exceed 0.65 dB as measured at the property boundaries for the facility.

_____

Based on the ANSI standards cited in the regulation, the nomenclature used in Section c. (0.65 dB) is less than clear. However, it has some similarity to the single number standard of 65 dBA that is provided in Note 4. This study is based on that goal of 65 dBA at the property line. The layout of the existing fenced equipment area is provided in Figure 2. An elevation sketch of the proposed temporary monopole is provided in Figure 3.

Modeling Specialties has surveyed the sound at the subject facility and at similar equipment cabinets at many sites. No unusual sounds listed in subsection J.c were observed under any operating condition.

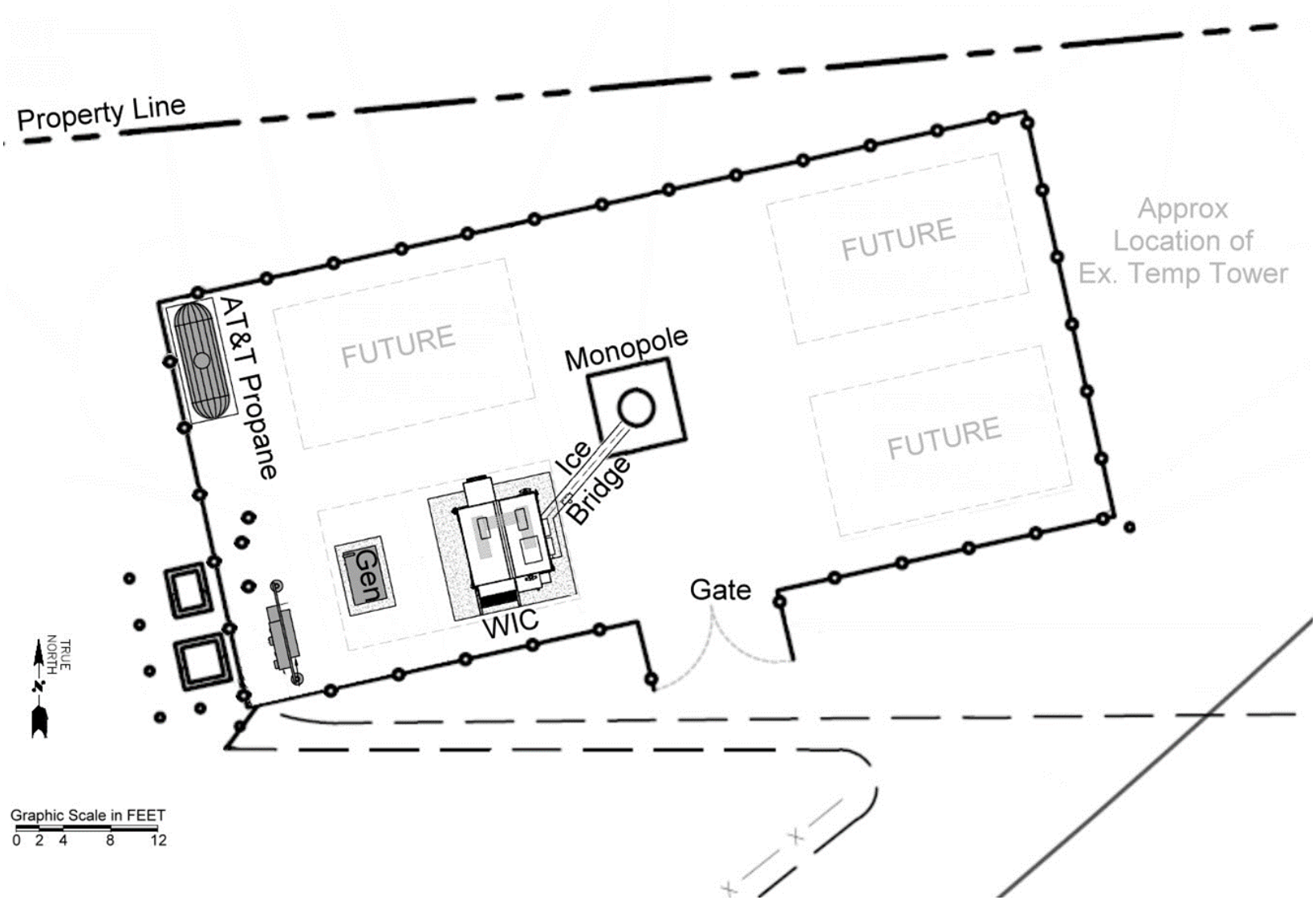


Figure 2: Layout of the Proposed Permanent Tower (showing location of the Temporary Tower).

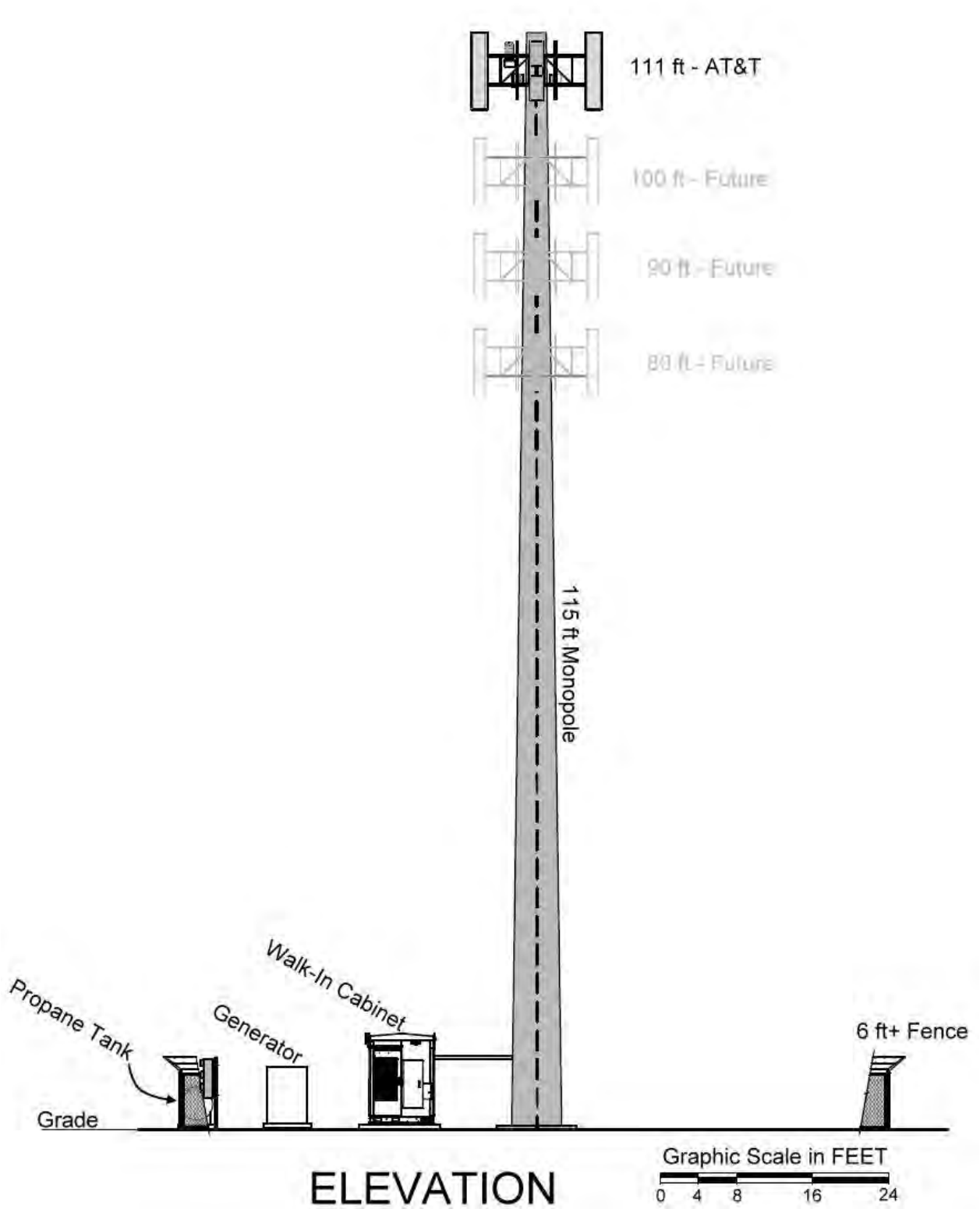


Figure 3: Elevation Plan for the Proposed Facility

Ambient Sound Field

A field survey of the wireless facility was scheduled at 6:00 am on January 11, 2023. At that time, the former equipment compound was supporting the AT&T antennas on the soon-to-be-removed stack. The purpose of the survey was to establish the ***wireless equipment sound level*** at the host property line according to the Pittsfield Zoning Regulations. According to ANSI standards, the sound from the subject source should be measured in a sound field that is well below the sound from the equipment. In this case, it was possible to exclude (most of) the host facility sound by scheduling the survey outside of the host industrial facility's hours of operation, which start about 7:00 am. The survey served to establish the equipment sound at that time, but also to establish the ambient levels from existing sound sources in the area.

In general, it is difficult to evaluate one source of sound in the presence of unrelated dominating source(s) of sound. The daytime sound field is dominated by the industrial use of the site. The nighttime sound field is dominated by traffic on Route 8 and the sound of a nearby waterfall. For those reasons, it will be difficult to measure the project sounds once the project is operational. On the other hand, since the sound from the equipment is below the other existing sources, there is little risk of project sound affecting the use of any adjacent land uses.

Routine Sound Emissions

The Walk-In Cabinet (WIC) does have the potential to emit modest sounds. The only routine sound emissions planned for the AT&T WIC is from the electronics cabinet fan. There is an air inlet in the front door that draws ambient air through the unit, exhausted through a louver on the back wall. This basic cooling is called Direct Air Ventilation (DAV) and has a smooth broadband character that produces less than 50 dBA at 3 feet from the unit. The fan will operate continuously, so there is no variation from moment to moment or cycling from equipment startup. The fan is mounted on the inside of the cabinet door so it is subtle from the outside of the cabinet (which will always remain closed). In these ways, the cabinet configuration is designed for minimal effect on the surrounding area. The field image to the right shows the DAV exhaust louver and a supplemental cooling unit on the rear of the cabinet. The supplemental cooler is not routinely used to for cooling the cabinet.

Non-Routine Sound Emissions

The electronics equipment in the cabinet is temperature sensitive. When the DAV cooled cabinet still exceeds a safe temperature (usually above 90°F), the supplemental cooler (shown on previous page) will provide protective cooling for the equipment. Because of these settings, use of the supplemental cooler is only expected when the ambient temperature is very high. Under maximum cooling the supplemental cooler produces about 50 dBA at a distance of 23 feet from the unit. This rare cooler operation represents the worst-case sound level from the cabinet.

The installation will include an emergency generator installed inside of an acoustic enclosure (shown to the right). For about one half-hour every week during daytime hours, the engine will be remotely tested to assure availability. The propane gas fired Polar Power DC Generator will have a rating of 27 kW and a specified sound emission of 66 dBA at a distance of 23 feet under full load. But since it will have no load during the routine tests, the unit is expected to emit several dB less sound. The tests are a maintenance function that assures its availability of in case of a power outage. The generator tests will only occur at daytime hours when the sound from industry and traffic along the Route 8 is also expected.

Field Measurement of Similar Sources at another Facility

The vendor data are provided at standardized distances, usually 7 meters (23 feet). The vendor data represents the worst-case sound emission – while the unit is under full load. The following data are provided here to illustrate equipment operating in a quiet environment. (There is no technically defensible way to quantify the equipment sound at a site like Pittsfield Hubbard Avenue where the ambient sound is as high or higher than the daytime use of the equipment.) The sound from similar equipment was measured by Modeling Specialties at another Massachusetts installation. Table 2A and 2B show the observed sound from the equipment operating at the much quieter site.

Table 2A: Measured Sound Levels from Proposed Routine Sources

Normal Operation Sources	Reference Distance	Mfr. Specified Level	Observed Sound Level
DAV (fans high)	23 ft	about 50 dBA	49 dBA
DAV (fans med)	23 ft	about 50 dBA	46 dBA
Transformer	23 ft	Not Modeled	Below Ambient

Several sources are provided as backup to provide safe facility operation in exceptional situations. A DC generator was available at the test site to support the AT&T equipment during an extended loss of utility power. The test generator was fired by diesel but the proposed Pittsfield generator is fired by propane gas. Another exceptional source is a supplementary cooling system for the AT&T Walk-In Cabinet under exceptionally high temperatures.

Table 2B: Measured Sound Levels from Proposed Non-Routine Sources

Exceptional Source(s)	Reference Distance	Mfr. Specified Level	Observed Sound Level
Walk-In Cabinet Supp. Cooling Unit	23 ft	about 50 dBA	51 dBA
Diesel Generator With Site Load	23 ft	67 dBA	64 dBA
Diesel Generator (No Load Test)	23 ft	Less than 67 dBA	62 dBA

Note: The worst-case sound modeling is based on the highest emissions expected, WIC cooler 51 dBA @ 23 ft and propane-fired generator vendor specification of 66 dBA

Modeling of the Project Sound

A computer model was developed to estimate the project sounds based on conservative sound propagation principles. This analysis represents the most likely sound levels to be expected as a result of the operation of the facility. The routine operation includes only the Direct Air Ventilation fans on the cabinet. The non-routine (worst-case) condition includes the cabinet cooling unit and the enclosed standby generator which is tested for one half hour each week.

Modeling Details

Noise prediction modeling was performed using CADNA software under downwind weather conditions as assumed in the standard ISO 9613-2. Table 3 summarizes the modeling input parameters.

Table 3: Modeling Input Parameters

Item	Modeling Input and Description
Terrain	Flat Terrain assumed
Temperature	10°C
Relative Humidity	70%
Weather Condition	6.5 mph, directly from facility to receptor*
Ground Attenuation	0.4, soft ground (0.5 = soft ground, 0.0 = pure reflection)
Atmospheric Inversion	CONCAWE – Category F**
# of Sound Reflections	2
Receptor Height	1.5 meter above ground level

** Propagation calculations incorporate the adverse effects of certain atmospheric and meteorological conditions on sound propagation, such as gentle breeze of 1 to 5 m/s (ISO 1996-2: 1987) from source to receiver.*

***CONCAWE – Category F is a stable atmosphere that promotes sound propagation.*

Results of Sound Level Modeling

The facility was modeled under two separate scenarios. One model represents the facility under routine operation. Under this condition, the Walk-In Cabinet is cooled by the DAV system, which will be used except for the few hottest weeks of the summer. The results of the modeling are summarized in Table 4. The same results are shown graphically in Figure 4.

Table 4: Predicted Project Sound Levels under Routine Operation

Receptor Location	Distance from Equipment (ft)	Early Morn./Night Exist. Sound (dBA L_{eq})	Worst Case Project (dBA)	Pittsfield Prop. Line Criterion (dBA)
Property Line North	34	56/50	31	65
Property Line West	140	56/50	21	65

Note: It is customary to conduct all calculations using precise values, but to round the result to whole dBA. All results are rounded to units (dBA).

These worst-case results for the proposed equipment sound at area receptors is tabulated in Table 5. A sound contour map of the project area was used to illustrate sound from the project sources in Figure 5. The figure shows both the property line locations and sound contour details that are expected during the rare cases of worst-case operation.

Table 5: Predicted Project Sound Levels under Non-Routine (Worst Case) Operation

Receptor Location	Distance from Equipment (ft)	Early Morn./Night Exist. Sound (dBA L_{eq})	Worst Case Project (dBA)	Pittsfield Prop. Line Criterion (dBA)
Property Line North	32	56/50	59	65
Property Line West	130	56/50	50	65

Noise Mitigation Assumptions

There are several mitigation measures in place to achieve the low sound levels shown above. As noted, the walk-in cabinet configuration reduces the sound emissions even compared a highly-mitigated shelters. The DAV system not only dramatically reduces routine energy use, but it also reduces the routine sound from the cabinet. The DAV also produces sound of a more consistent character that was made by legacy equipment shelter coolers. The proposed generator is an inverter direct current (DC) design which is inherently quieter than an equivalent alternating current (AC) genset. Further, the generator is internally silenced and fully shielded by an acoustical enclosure, making it quiet for its size and capacity. Finally, gas-fired (natural gas or propane) generators are significantly quieter than diesel units.

5. Conclusions

The potential sounds from the proposed installation were evaluated using field data and numerical modeling estimates of the equipment sources. Ambient sound levels were established by direct field measurements, using equipment that is standardized to the current ANSI standards. Equipment operating sound levels were quantified by using vendor estimates and confirmed by representative field measurements at other installations. The sound is minimized by AT&T's selection of equipment that emits less sound than other equipment options. Most of the time, under routine operation, the proposed equipment will produce no sound that can be heard off site (well below ambient). During the hottest days of summer, the electronics cabinet will require the operation of the supplemental cooler. It will still produce sound levels below the Pittsfield 65 dBA limit at property line locations.

The facility operation will also include a test of the emergency generator about once-each-week during daytime hours. During this worst-case daytime scenario, the sound level is assumed to include the combined sound from the cabinet cooler and the generator. Modeling indicates that the combined sound is expected to meet the Pittsfield 65 dBA criteria at the nearest property line receptors. The sound levels decrease with distance, so equipment sound levels at more distant property line locations are expected to be less than modeled here. In this way, the facility is expected to operate within the criteria provided by the Pittsfield at all times.

Figure 4: Graphical Summary of the Sound Modeling Results for the Proposed "Routine Operation".

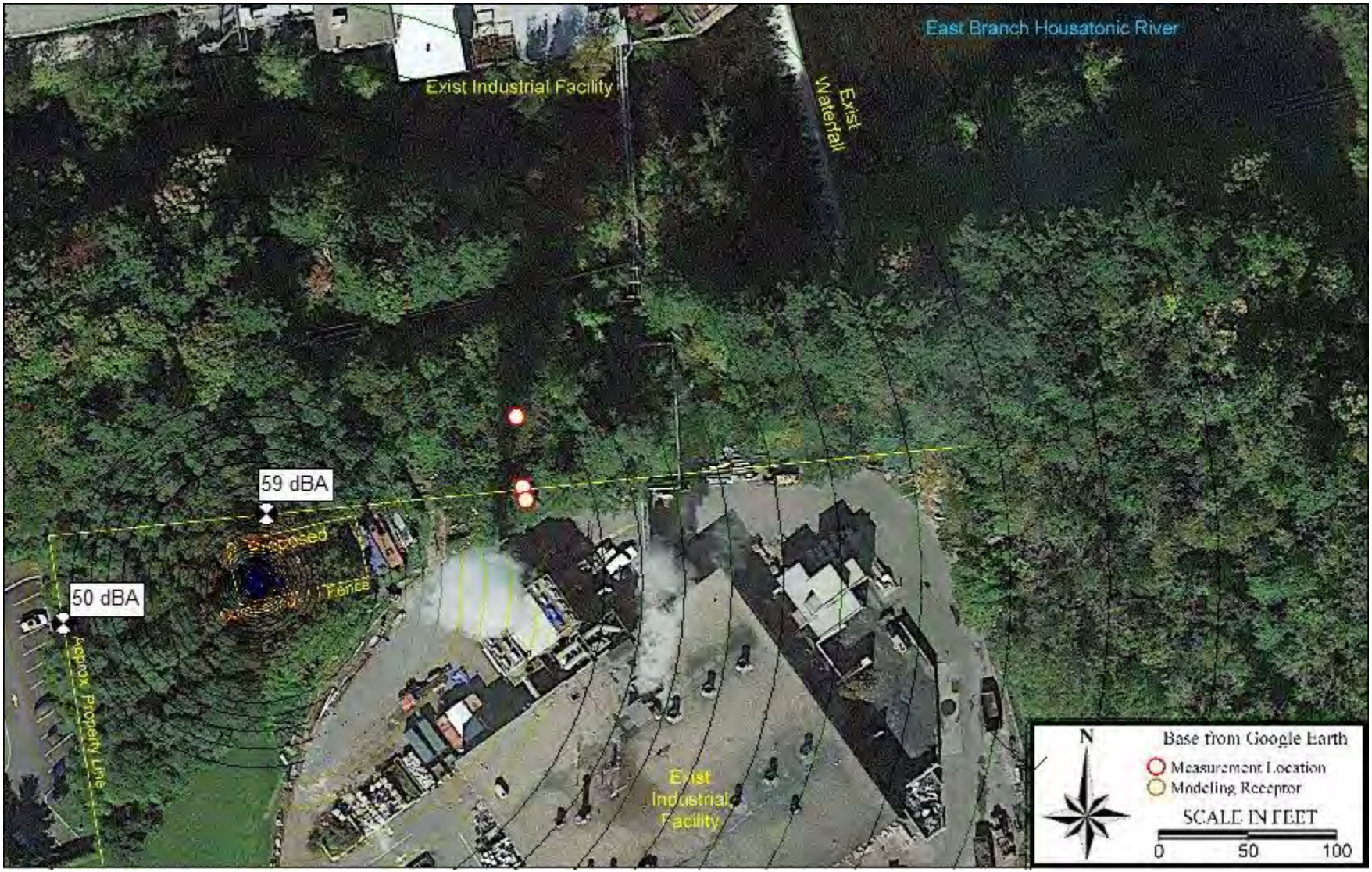


Figure 5: Graphical Summary of the Sound Modeling Results for the Proposed "Worst Case Operation".
(Includes the Generator and Supplemental Cabinet Cooler)

12

TOWER / STRUCTURE / EQUIPMENT REMOVAL BOND

Location of tower/structure/equipment:
500 Hubbard Avenue
Pittsfield, MA 01201
Site ID: MA2974
FA #: 15440579
Bond Number: 800171487

KNOW ALL MEN BY THESE PRESENTS:

THAT NEW CINGULAR WIRELESS PCS, LLC as Principal, and ATLANTIC SPECIALTY INSURANCE COMPANY , a corporation duly organized under the laws of the State of New York as Surety, are held and firmly bound unto the CITY OF PITTSFIELD, as Obligee, in the penal sum of One Hundred Forty Thousand and No/100 Dollars -------- ($140,000.00 ----------) for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a written agreement with the property owner for the placement of a tower, structure or equipment furnishing telephone, television or other electronic media service, which agreement sets forth the terms and conditions which govern the use of such towers, structures or equipment and which agreement is hereby specifically referred to and made part hereof, and

WHEREAS, the CITY OF PITTSFIELD ordinance and/or the property owner, requires the submission of a bond guaranteeing the maintenance, replacement, removal or relocation of said tower.

NOW THEREFORE, the condition of this obligation is such, that if the above bounden Principal shall perform in accordance with the aforesaid ordinance and/or agreement, and indemnify the Obligee against all loss caused by Principal's breach of any ordinance or agreement relating to the maintenance, replacement, removal or relocation of a tower, structure or equipment then this obligation shall be void, otherwise to remain in full force and effect.

PROVIDED HOWEVER, that this bond is executed subject to the following express provisions and conditions:

1. No claim, action, suit or proceeding shall be instituted against this bond unless same be brought or instituted and process served within one year after termination or cancellation of this bond.

2. No right of action shall accrue on this bond for the use of any person, corporation or entity other than the Obligee named herein or the heirs, executors, administrators or successors of the Obligee.

3. The aggregate liability of the surety is limited to the penal sum stated herein regardless of the number of years this bond remains in force or the amount or number of claims brought against this bond.

4. If any conflict or inconsistency exists between the Surety's obligations as described in this bond and as may be described in any underlying agreement, permit, document or contract to which this bond is related, then the terms of this bond shall prevail in all aspects.

5. It is expressly understood and agreed that this bond does not cover or guarantee rent or lease payments of any kind.

This bond shall become effective on 11th Day of January, 2024.

SIGNED this 11th day of January, 2024.

Principal: NEW CINGULAR WIRELESS PCS, LLC
by AT&T Mobility Corporation, its Manager

By: Stacy Roth Digitally signed by Stacy Roth Date: 2024.01.11 13:58:43 -05'00'
Stacy Roth, Assistant Treasurer

CORPORATE SEAL CORPORATE SEAL

Surety: ATLANTIC SPECIALTY INSURANCE COMPANY

By: Elizabeth P Cervini Digitally signed by Elizabeth P Cervini Date: 2024.01.11 13:58:10 -05'00'
Elizabeth P. Cervini, Attorney-in-Fact

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

N/A
Producer Name
(Required in Arizona Only)

[intact INSURANCE]

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Austin E. Trimbur, David A. Johnson, David C. Rosenberg, Denise M. Brune, Elizabeth B. Pendleton, Elizabeth P. Cervini, Harry C. Rosenberg, James M. DiSciullo, John E. Rosenberg, John M. Wescott, Jonathan F. Black, Julia R. Burnet, Matthew J. Rosenberg, Melissa J. Hinde, Stephanie S. Helmig**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this first day of January, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1988 NEW YORK

By: _____
Sarah A. Kolar, Vice President and General Counsel

STATE OF MINNESOTA
HENNEPIN COUNTY

On this first day of January, 2023, before me personally came Sarah A. Kolar, Vice President and General Counsel of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and she acknowledged the execution of the same, and being by me duly sworn, that she is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

ALISON DWAN NASH-TROUT
NOTARY PUBLIC - MINNESOTA
My Commission Expires
January 31, 2025

_____
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 11th day of January, 2024

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1988 NEW YORK

_____
Kara L.B. Barrow, Secretary

This Power of Attorney expires:
January 31, 2025

Please direct bond verifications to surety@intactinsurance.com

intact specialty solutions

Atlantic Specialty Insurance Company

Period Ended 12/31/2022

Dollars displayed in thousands

Admitted Assets	
Investments:	
Bonds	$ 2,216,281
Preferred Stocks	-
Common Stocks	783,897
Mortgage Loans	-
Real Estate	-
Contract Loans	-
Derivatives	-
Cash, Cash Equivalents & Short Term Investments	306,486
Other Investments	39,995
Total Cash & Investments	3,296,071
Premiums and Considerations Due	332,718
Reinsurance Receivable	38,231
Receivable from Parent, Subsidiary or Affiliates	8,250
All Other Admitted Assets	79,777
Total Admitted Assets	3,755,047

Liabilities and Surplus	
Liabilities	
Loss Reserves	$ 1,093,968
Loss Adjustment Expense Reserves	347,884
Total Loss & LAE Reserves	1,441,852
Unearned Premium Reserve	736,613
Total Reinsurance Liabilities	48,760
Commissions, Other Expenses, and Taxes due	66,767
Derivatives	-
Payable to Parent, Subs or Affiliates	-
All Other Liabilities	103,700
Total Liabilities	2,921,725
Capital and Surplus	
Common Capital Stock	5,001
Preferred Capital Stock	-
Surplus Notes	-
Unassigned Surplus	174,508
Other Including Gross Contributed	844,763
Capital & Surplus	833,322
Total Liabilities and C&S	3,755,047

State of Minnesota
County of Hennepin

I, Kara L.B. Barrow, Secretary of Atlantic Specialty Insurance Company do hereby certify that the foregoing statement is a correct exhibit of the assets and liabilities of the said Company, on the 31st day of December, 2022, according to the best of my information, knowledge and belief.

Kara B Barrow
Secretary

Subscribed and sworn to, before me, a Notary Public of the State of Minnesota on this 16th day of March, 2023.

Kerri Riechers
Notary Public

KERRI RIECHERS
Notary Public
Minnesota
My Commission Expires January 31, 2025

January 8, 2024

Re: AT&T Mobility MA2974
500 Hubbard Avenue
Pittsfield, MA 01201

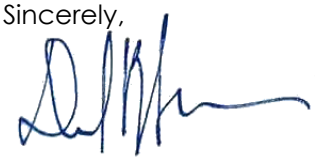
To Whom It May Concern:

The following estimate has been prepared to summarize the take down and removal costs that would be associated with the proposed AT&T Mobility telecommunication site at the above-referenced location. These costs are based on data compiled in the 2023 Building Construction Cost Data, published by RS Means and from industry-specific data.

RS Means Ref	Description	Unit	QTY	Unit Cost	Total Cost
15419.5	2 Cranes	Day	2	$10,500.00	$21,000.00
15419.5	Bucket Truck	Day	2	$1,500.00	$3,000.00
13113.2	Field Personnel (General Purpose Laborer)	Week	3	$1,600.00	$4,800.00
24113.6	Fence Removal	LF	220	$3.06	$673.20
24116.17	Tower Foundation	LF	400	$12.82	$5,128.00
24116.17	Concrete Pads	LF	135	$1.14	$153.90
24116.17	Concrete Removal	CY	90	$14.30	$1,287.00
260505.1	Electrical Demolition	LF	800	$8.70	$6,960.00
N/A	Remove Antenna Cable, Antenna Mounts and Tower	EA	2	$12,675.00	$25,350.00
N/A	Mobilization and Demobilization	EA	5	$7,800.00	$39,000.00
N/A	Final Clean-up	EA	1	$7,400.00	$7,400.00
N/A	Haul and Dispose Materials	EA	1	$4,100.00	$4,100.00
	Subtotal				$118,852.10
	Contingency			10%	$11,885.21
	Regional Adjustment			6.50%	$7,725.39
	Total				$138,462.70

Based on the cost estimate provided in this report, it is my professional opinion that an appropriate surety amount to secure the removal of the facility would not exceed $140,000.

Sincerely,



Daniel P. Hamm, P.E.
TEP Northeast – TEP OPCO, LLC

13

June 25, 2024

VIA EMAIL

City of Pittsfield
Zoning Board of Appeals
c/o Department of Community Development
Amber Spring
Permitting Coordinator
70 Allen Street
Pittsfield, MA 01201

RE: **Statement of Compliance – Application for a Wireless Communications Facility**

Applicant: New Cingular Wireless PCS, LLC ("AT&T")

Site: 500 Hubbard Avenue, Pittsfield, MA (Assessor's Parcel ID: M140001008)

AT&T confirms the following statements:

1. AT&T's proposed wireless facility will comply with all applicable Federal Communication Commission ("FCC") rules and regulations, including those rules regarding interference to public safety radio services as referenced in Subsection F of Section 4.322 of the Pittsfield Zoning Ordinance. AT&T's proposed wireless facility will likewise comply with "Good Engineering Practices" as defined by the FCC, will not cause radio frequency interference with any governmental public safety communications and AT&T will implement appropriate technical measures to prevent such interference.

2. AT&T's proposed wireless facility will comply with all applicable building code requirements.

3. AT&T is not adding additional spectrum to the proposed wireless facility.

Sincerely,
New Cingular Wireless PCS, LLC

Rachelle Bidon-Lewis

Rachelle Bidon-Lewis
AT&T Mobility
Associate Director, Network Engineering
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Meriden, CT 06450