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T-Mobile Northeast LLC, a subsidiary of T-Mobile USA, Inc.

Connecticut Market

August 14, 2023

Honorable Robert Stein, Chairman,  
and members of the Council  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

Re: T-MOBILE Northeast LLC notice of intent to install a temporary cellular telephone facility located at 81 Central Ave., New Haven, Connecticut

Dear Chairman Stein and Members of the Council:

Centerline is pleased to submit this Notice of Exempt Modification on behalf of T-MOBILE Northeast LLC

T-MOBILE Northeast LLC hereby notifies the Connecticut Siting Council of its intent for the temporary use of telecommunications equipment by placing a Cell On Light Truck (COLT) on the grounds of the Yale Bowl located at 81 Central Ave., New Haven, Connecticut. Please accept this Notice to the Connecticut Siting Council, Pursuant to RSCA Section 16-50j-73, of construction that constitutes an exempt modification under RSCA Section 16-50j-72 (d). In compliance with RSCA Section 16-50j-73, copies of this Notice of Exempt Modification are being sent to the Mayor of New Haven and Yale University, which owns the Yale Bowl.

The proposed temporary cell site meets the criteria set forth in RSCA 16-50j-72(d) for temporary cellular service for events of statewide significance. The site is necessary to provide additional system capacity to accommodate the increased communication needs during the Yale/Harvard football game.

The Yale/Harvard football game is November 18, 2023 but T-Mobile will need to do testing beforehand to make sure the site is up and running before the game.

### **Proposed Temporary Facility**

The temporary site will be located at 81 Central Ave. in New Haven, Connecticut on the property known as the Yale Bowl owned by Yale University. (See attached location map) Coordinates for the location are N 41.314216, W72.961929. A 15 kw diesel generator will be used for power and the proposed temporary cell site will not increase the noise level by six decibels or more.

Equipment installation will start on November 10, 2023 and the site will be on-air until November 20, 2023. The COLT will be removed on November 20, 2021, the Monday after the game.

T-Mobile's temporary cell site will consist of a "Cell On Light Truck" ("COLT") (See attached photo) which needs a 30' x 25' footprint, contains three indoor RBS6201's and PBC6200 with battery backup, a backup generator, dual masts and can support 5 sector multibeam antennas.

### **Power Density Calculations**

T-Mobile's temporary cell site will not result in a total radio frequency electromagnetic radiation power density, measured at ground level at the COLT location, at or above State or Federal standards. The following table shows the power density at the site from the proposed temporary cellular transmissions from the COLT:

T-Mobile Sect	Power Density Value (%)
Sector A:	12.45%
T-Mobile Maxim MPE % (Sector A):	12.45%
Site Total:	12.45%
Site Compliance Status:	<b>COMPLIANT</b>

See attached full report

**Conclusion**

For the reasons above, we respectfully request the Council acknowledge T-Mobile's Notice of Exempt Modification for the temporary cell site to be operated during the Yale/Harvard football game pursuant to RCSA Section 16-50j-72(d).

Please call me with any questions concerning this Notice at 203-417-4446. Thank you.

Respectfully,

A handwritten signature in blue ink, appearing to read 'Thomas White', with a long horizontal flourish extending to the right.

Thomas White  
Agent of T-Mobile

Cc: New Haven Mayor Justin Elicker  
Aicha Woods, City Planning and Zoning  
Yale University

## COMMUNICATIONS LICENSE AGREEMENT

**THIS COMMUNICATIONS LICENSE AGREEMENT** (this "License") is made by and between **YALE UNIVERSITY** ("Licensor"), a corporation specially chartered by the General Assembly of the Colony and State of Connecticut, whose address is Attn: Yale Athletics Business Office, 20 Tower Parkway, New Haven, CT 06511, and **T-MOBILE NORTHEAST LLC** ("Licensee"), a Delaware limited liability company, whose address is 12920 S.E 38<sup>th</sup> Street, Bellevue, WA 98006.

**WHEREAS**, Licensor is the owner of the Premises (as defined herein) which is located within certain real property owned by Licensor located at 81 Central Avenue, New Haven, CT 06515 (the "Property");

**WHEREAS**, Licensee desires to license the Premises from Licensor to set up, operate and maintain that certain mobile wireless communications temporary facility identified on Schedule 1 attached hereto in order to provide certain wireless communications services to the Property (the "Services"); and

**NOW, THEREFORE**, in consideration of the mutual covenants contained in this License and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereby agree as follows:

1. **Use.** Licensor grants to Licensee the right to set up, operate and maintain the temporary facility for the Term (as defined herein) on that certain portion of the Property identified on Schedule 2 attached hereto, together with all necessary and temporary space and easements for access and utilities (collectively, the "Premises"), and to operate certain communications equipment on the Premises including radio frequency transmitting, utility lines, transmission lines, radio frequency transmitting and receiving antennas and supporting structures and other similar or related equipment (collectively, the "Antenna Facilities"), to be used by Licensee for the transmission and reception of radio communication signals associated with the Services.

a) Licensee shall have the right to use whatever measures it deems commercially reasonably appropriate to install the Antenna Facilities on the Premises, provided that it is in compliance with all applicable laws and regulations.

b) Subject to Section 1(c) hereof, Licensee shall have the right, at Licensee's sole cost and expense, to run transmission lines from the equipment area located on the Premises to the antenna locations on the Premises and to run power and telephone service from the main feed to the communications equipment, provided that each are located on the Premises.

c) Notwithstanding anything in this License to the contrary, the placement of any utility lines, transmission lines or any other lines or cables associated with the operation of the Antenna Facilities must first be approved by Licensor in its sole discretion. In the event any such line or cable is improperly placed, and after Licensor has notified Licensee in writing of such improper placement, Licensee will take all commercially reasonable steps necessary to immediately remove such line or cable.

2. **Term.** Unless earlier terminated pursuant to the terms hereof, this License term (the "Term") shall commence on November 13, 2023 (the "Commencement Date") and shall expire on November 20, 2023. Neither Licensee nor Licensor shall have any right to extend this License.

3. **Condition of Premises.**

a) **Installation and Removal of the Antenna Facilities.** Licensee shall set up the Antenna Facilities on the Premises and remove the Antenna Facilities from the Premises at its sole cost and expense. Licensee will promptly remove the Antenna Facilities from the Premises at the end the Term. The Antenna Facilities, whether attached to or otherwise brought onto the Premises, shall at all times remain personal property of Licensee and shall not be considered fixtures, and subject to Section 3(c) hereof, may be removed by Licensee at any time during the Term.

- b) **Repairs.** During the Term, Licensee will maintain the non-structural portions of the Premises in good condition, reasonable wear and tear excepted, and shall repair any damage to the structural portion of the Premises caused by it.
  - c) **Alteration Restoration.** No alterations, including, without limitation, structural alterations, may be made by Licensee to the Premises without the prior written consent of Licensor. In addition, Licensee may only install trade fixtures, furnishings and items of a decorative nature with Licensor's prior written consent. At the time, and if Licensor's consent is given, Licensor shall notify Licensee if any alteration must be removed, and the affected area of the Premises shall be restored at Licensee's sole cost and expense.
  - d) **Surrender.** On or before the expiration of the Term, Licensee shall remove the Antenna Facilities and all electronic equipment, computers and other personal property and furnishings from the Premises which are owned or leased by Licensee but shall leave in place all electronic equipment, computers and other personal property and furnishings which are owned or leased by Licensor in substantially similar condition as of the Commencement Date (subject to reasonable wear and tear). Further, Licensee shall vacate and surrender full and complete possession of the Premises to Licensor, vacant and in its "as is" condition and state of repair except as otherwise allowed pursuant to Section 3(c) hereof and subject to reasonable wear and tear. Except as expressly required by applicable law or as provided in this Section, Licensee shall not be required to restore, alter or improve the Premises.
4. **License Fee.** In consideration for permitting Licensee to utilize the Premises during the Term, Licensee shall pay to Licensor at the address specified herein upon full execution of this License, a one-time license fee of Three Thousand and no/100 dollars (**\$3,000.00**) (the "License Fee"). Licensor, its successors, assigns and/or designee, if any, will submit to Licensee any documents required by Licensee in connection with the payment of the License Fee, including, without limitation, an IRS Form W-9.
5. **Utilities.** Solely as it relates to the Licensee's use of the Antenna Facilities at the Premises, Licensee shall have the right, at its sole cost and expense, to use a diesel generator.
6. **Insurance.** Licensee, at its sole cost and expense, shall provide and maintain, during the Term, commercial general liability insurance with combined single limit coverage of Five Million Dollars (\$5,000,000.00) per occurrence, including, without limitation, coverage for bodily injury and property damage (which limit may be satisfied with the combination of primary and excess liability insurance policies). Licensee agrees that it will include the Licensor as an additional insured on such insurance policy.
- Licensee and Licensor release each other from any claims for damage to the Property (including, without limitation, the Premises), the Antenna Facilities to the extent covered and provided for in their own respective insurance policies which are in full force at the time of such claim and contain a clause to the effect that such release does not affect the policy or the insured's right to recovery thereunder. Each party shall instruct their respective insurance companies to waive any and all right of recovery by way of subrogation against the other party in connection with any damage covered by said insurance policies.
7. **Interference.** Licensee shall not use the Premises in any way which interferes with the use of the Property by Licensor, or lessees, licensees or customers of Licensor with rights in the Property. Similarly, Licensor shall not use any portion of the Property in any way which interferes with the operations of Licensee and/or the Antenna Facilities. For the avoidance of doubt, Licensee agrees to install the Antenna Facilities and their related equipment so that they will not cause interference which is measurable in accordance with then-existing industry standards to Licensor's, its tenants', contractor', lessees' or licensees' systems. In the event the Antenna Facilities or any of Licensee's other equipment causes such interference, and after Licensor has notified Licensee in writing of such interference, Licensee will take all commercially reasonable steps necessary to immediately correct and eliminate the interference.
8. **Access.** Subject at all times to Licensor's security policies and procedures (collectively, the "Procedures"), Licensee shall have 24-hours-a-day, 7-days-a-week access to the Premises ("Access"), without charge to Licensee, Licensee's employees or any subcontractors or agents, which Access shall remain unimpeded during the Term.

9. **Notices.** Unless otherwise provided herein, any notice or demand required to be given herein shall be given by certified or registered mail, return receipt requested or reliable overnight courier to the Licensor and Licensee at the addresses set forth above. Licensee and Licensor may designate a change of notice address by giving written notice to the other party.

10. **Termination.** Either party may immediately terminate this License, with or without cause, upon written notification to the other party, without any penalty or further liability.

11. **Indemnification.** Except to the extent caused by the gross negligence or willful misconduct of the other party, each of the parties (each, an "Indemnifying Party") agree to indemnify and hold harmless the other party, and its directors, officers, employees, agents, contractors and representatives (each, an "Indemnified Party"), from and against any and all claims, damages, cost and expenses, including reasonable attorney fees, to the extent caused by or arising out of (a) the negligent acts or omissions or willful misconduct in the operations or activities on the Property (including, without limitation, the Premises) by the Indemnifying Party, including, without limitation, any injury to or death of any person, or damage to or loss of property, or any other thing occurring on or about any part of the Property (including, without limitation, the Premises), or in any manner growing out of, resulting from or connected with the use, condition or occupancy of, the Property (including, without limitation, the Premises) if caused by any negligent or wrongful act or omission of a Indemnifying Party, or (b) a breach of any obligation of the Indemnifying Party under this License. Except for claims covered by this Section 11, neither party shall be responsible to the other for any indirect, special, incidental or consequential damages, including, without limitation, loss of profits, income or business opportunities claimed by or through such other party. The Indemnifying Party's obligations under this Section are contingent upon (i) its receiving prompt written notice of any event giving rise to an obligation to indemnifying the other party, and (ii) the Indemnified Party's granting it the right to control the defense of the same. Notwithstanding anything to the contrary in this License, the parties hereby confirm that the provisions of this Section shall survive the expiration or termination of this License.

12. **Quiet Enjoyment and Authority.** Licensor covenants and warrants to Licensee that (i) Licensor has good and unencumbered title to the Premises and the full right, power and authority to execute this License; and (ii) at all times during the Term. Tenant's quiet enjoyment of the Premises or any part thereof shall not be disturbed as long as Licensee is not in default beyond any applicable cure period.

13. **Warranties.** EXCEPT AS SET FORTH IN THIS LICENSE, LICENSOR DOES NOT MAKE ANY WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THIS AGREEMENT, THE PROPERTY (INCLUDING, WITHOUT LIMITATION, THE PREMISES), OR ANY INTERESTS IN AND TO THE PROPERTY (INCLUDING, WITHOUT LIMITATION, ANY INTEREST IN AND TO THE PREMISES), INCLUDING THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

14. **Environmental Laws.** Licensor represents that it has no actual knowledge of any substance, chemical or waste (collectively, "Hazardous Substance") on the Property that is identified as hazardous, toxic or dangerous in any applicable federal, state or local law or regulation. Each Indemnifying Party agrees to defend, indemnify and hold harmless each Indemnified Party from and against any and all administrative and judicial actions and rulings, claims, causes of action, demands and liability (collectively, "Claims"), including, but not limited to, damages, costs, expenses, assessments, penalties, fines, losses, judgments and reasonable attorney fees that the Indemnified Party may suffer or incur due to the existence or discovery of any Hazardous Substances on the Property or the migration of any Hazardous Substance to other properties or the release of any Hazardous Substance into the environment, that relate to or arise from the Indemnifying Parties' activities on the Property; except to the extent such Claim is caused by the gross negligence or willful misconduct of the Indemnified Party.

15. **Waiver of Lien.** Licensor hereby waives any and all lien rights it may have, statutory or otherwise, concerning the Antenna Facilities or any portion thereof, which shall be deemed personal property for the purposes of this License, whether or not the same is deemed real or personal property under applicable laws.

16. **Entire Agreement/Future Agreements.** This License constitutes the entire agreement and understanding of the parties, and supersedes all offers, negotiations and other agreements. There are no representations or understandings of any kind other than as set forth herein. Any amendments to this License

must be in writing and executed by both parties. Any future agreement between the parties with respect to the use of the Premises for the purposes set forth in Section 1 above shall supersede the terms of this License.

17. **Subordination.** This License and the license granted herein are subject and subordinate to all ground and underlying leases affecting the Property (including, without limitation, the Premises), and to all mortgages which may now or hereafter affect such leases or the Property (including, without limitation, the Premises).

18. **Miscellaneous License Provisions.**

- a) This License shall be governed by the laws of the state in which the Property is located.
- b) This License, constituting the entire agreement and understanding between the parties, shall be binding on and inure to the benefit of the successors, transferees in title, and permitted assignees of the respective parties.
- c) Consent or approval of Licensor, where required, shall not be unreasonably withheld, delayed or denied.
- d) Neither party shall be responsible for delays in the performance of its obligations caused by events beyond the party's reasonable control, including, but not limited to, acts of God.
- e) If any provision of this Agreement is deemed invalid or unenforceable, the remainder of this Agreement shall remain in force to the fullest extent permitted by law.
- f) Each of the parties represent and warrant that they have the right, power, legal capacity and authority to enter into and perform their respective obligations under this License.
- g) This License may not be assigned by the Licensee without the prior written consent of the Licensor and shall be binding upon the parties' successors, legal representatives and permitted assigns. No right or obligation of Licensee shall be delegated to any subcontractor of the Licensee without the express written consent of Licensor. The parties expressly agree that this License and all rights and obligations hereunder may be transferred or assigned by Licensor to any successor entity at any time without the prior consent of Licensee.

[Signature Page Follows]

IN WITNESS WHEREOF, the parties execute and make effective this License as of the date last signed by a party hereto.

**LICENSOR: YALE UNIVERSITY**

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: Gina Digitally signed by Gina Costa

Date: Costa Date: 2023.07.25 15:21:58 -04'00'

**LICENSEE: T-MOBILE NORTHEAST LLC**

Name: Kristen Fienberg

Title: Manager, NSG

Signature: Kristen Fienberg

Date: 7/25/2023







1  
LE-1

# COLT LOCATION MAP

SCALE: 1" = 400'

## NOTES:

1. ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY T-MOBILE NORTHEAST, LLC STRUCTURAL & RF ENGINEERS. LOCATIONS OF POWER & TELEPHONE FACILITIES ARE SUBJECT TO APPROVAL BY UTILITY COMPANIES.

**ADVANCED**  
ENGINEERING GROUP, P.C.  
Civil Engineering • Site Development • Surveying • Telecommunications  
500 NORTH BROADWAY  
EAST PROVIDENCE, RI 02914  
TEL: (401) 354-2403  
FAX: (401) 633-8354

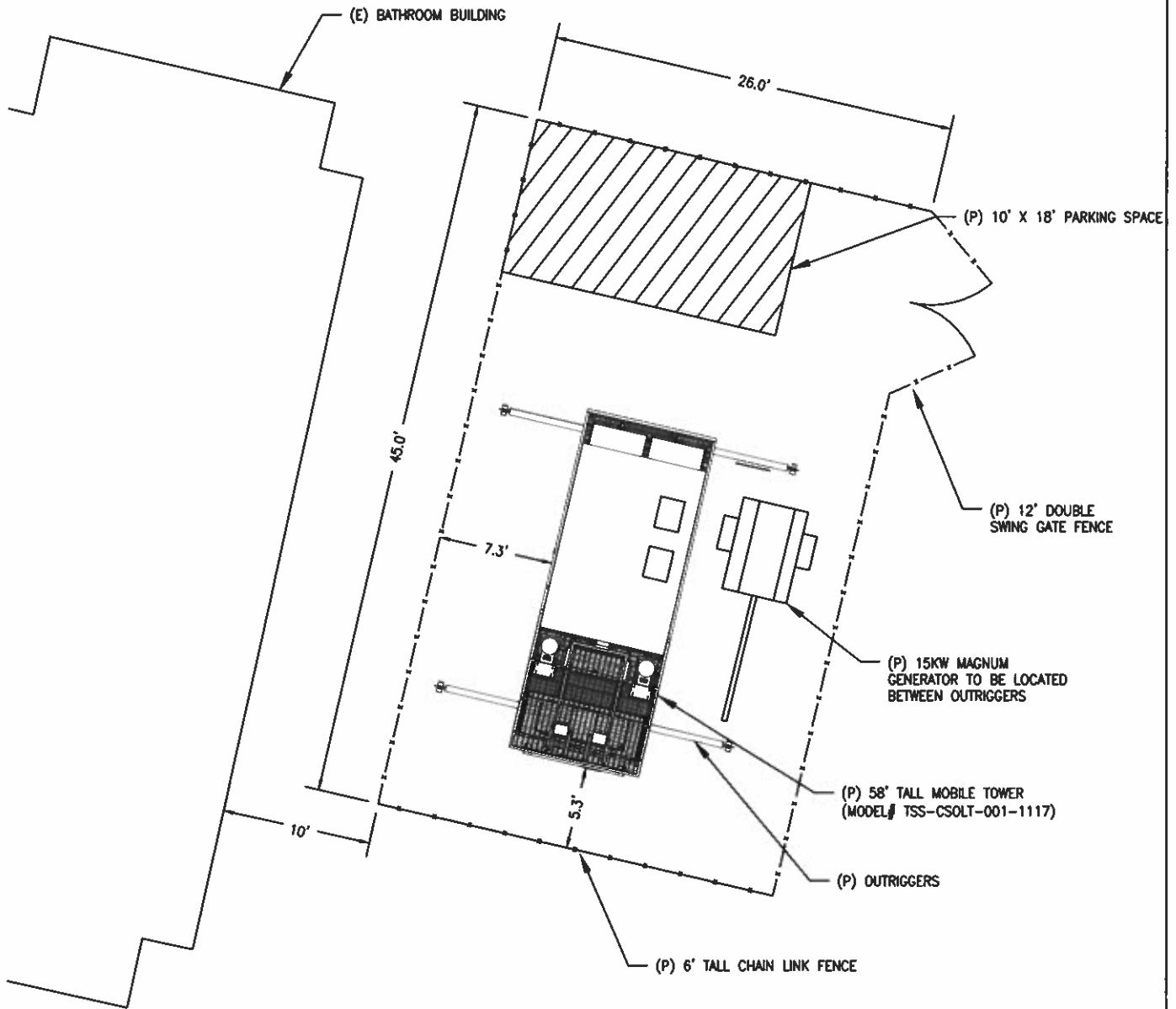
T-MOBILE NORTHEAST LLC  
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766  
OFFICE: (508) 286-2700  
FAX: (508) 286-2893

TITLE: LEASE EXHIBIT  
SITE NO: CTCLT01A  
SITE NAME: YALE BOWL  
ADDRESS: 81 CENTRAL AVE  
NEWHAVEN, CT 06515

DATE:	7/26/21
DRAWN BY:	JWH
REVISION:	2
SCALE:	NOTED
SHEET:	LE-1

**NOTE:**

ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND  
ARE SUBJECT TO APPROVAL BY T-MOBILE NORTHEAST,  
LLC STRUCTURAL & RF ENGINEERS.



**COMPOUND PLAN VIEW**

SCALE: 1"=10'

**ADVANCED**  
ENGINEERING GROUP, P.C.  
Civil Engineering • Site Development • Surveying • Telecommunications  
500 NORTH BROADWAY  
EAST PROVIDENCE, RI 02914  
TEL: (401) 354-2403  
FAX: (401) 833-8354

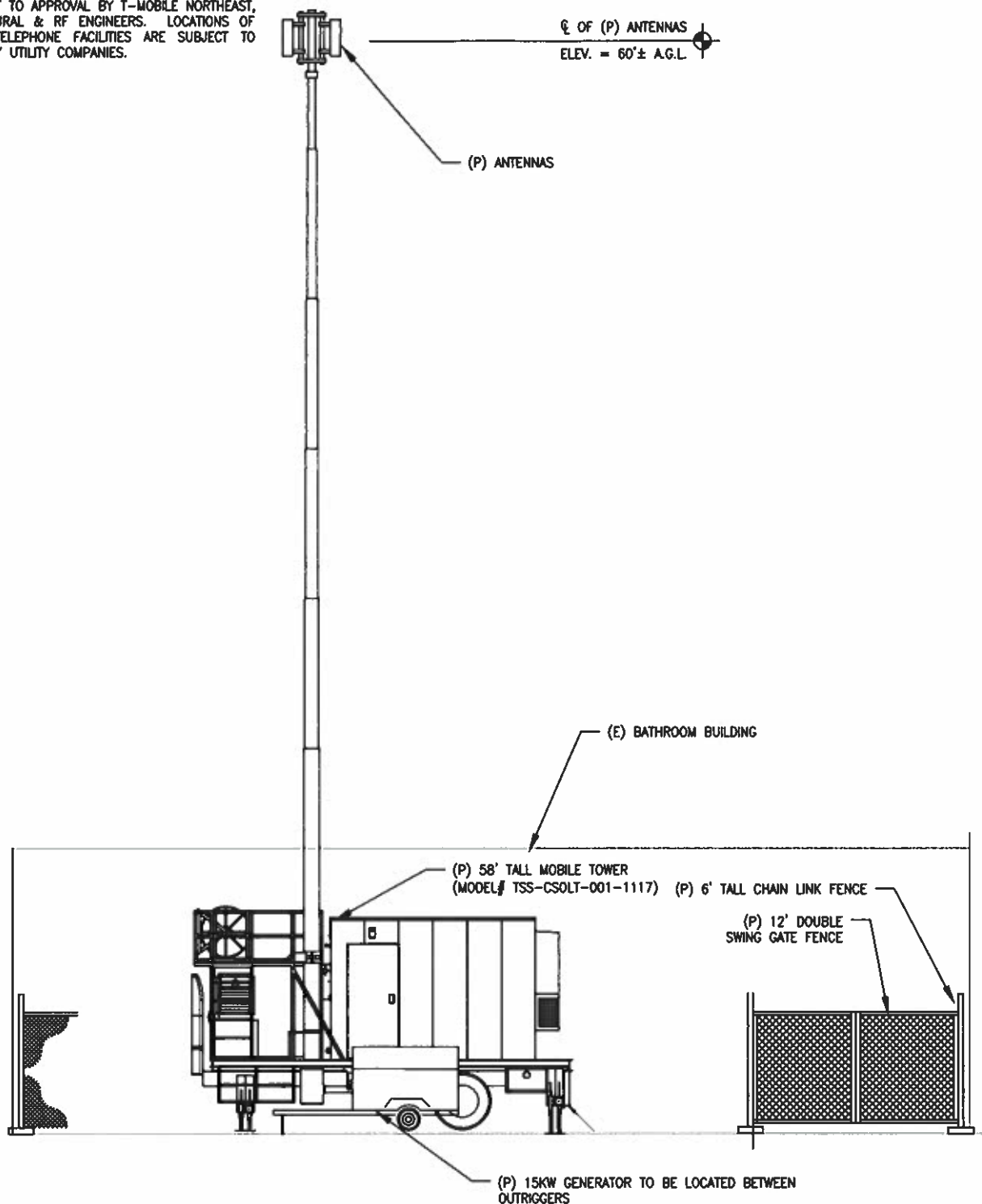
T-MOBILE NORTHEAST LLC  
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766  
OFFICE: (508) 286-2700  
FAX: (508) 286-2893

TITLE: LEASE EXHIBIT  
SITE NO: CTCLT01A  
SITE NAME: YALE BOWL  
ADDRESS: 81 CENTRAL AVE  
NEWHAVEN, CT 06515

DATE:	7/26/21
DRAWN BY:	JWH
REVISION:	2
SCALE:	NOTED
SHEET:	LE-2

**NOTE:**

ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY T-MOBILE NORTHEAST, LLC STRUCTURAL & RF ENGINEERS. LOCATIONS OF POWER & TELEPHONE FACILITIES ARE SUBJECT TO APPROVAL BY UTILITY COMPANIES.



1  
LE-3

**ELEVATION PLAN**

SCALE: 1/4"=1'-0"

**ADVANCED**  
ENGINEERING GROUP, P.C.  
Civil Engineering • Site Development • Surveying • Telecommunications  
300 NORTH BROADWAY  
EAST PROVIDENCE, RI 02914  
TEL: (401) 354-2403  
FAX: (401) 633-6354

T-MOBILE NORTHEAST LLC  
15 COMMERCE WAY, SUITE 8  
NORTON, MA 02766  
OFFICE: (508) 286-2700  
FAX: (508) 286-2893

TITLE: LEASE EXHIBIT  
SITE NO: CTCLT01A  
SITE NAME: YALE BOWL  
ADDRESS: 81 CENTRAL AVE  
NEWHAVEN, CT 06515

DATE: 7/26/21  
DRAWN BY: JWH  
REVISION: 2  
SCALE: NOTED  
SHEET: LE-3



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

T-Mobile Existing Facility

Site ID: CTCLT01A

Yale Bowl  
81 Central Avenue  
New Haven, Connecticut 06515

**July 26, 2023**

**EBI Project Number: 6223002864**

Site Compliance Summary	
Compliance Status:	<b>COMPLIANT</b>
Site total MPE% of FCC general population allowable limit:	<b>12.45%</b>



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July 26, 2023

T-Mobile

Attn: Jason Overbey, RF Manager

35 Griffin Road South

Bloomfield, Connecticut 06002

Emissions Analysis for Site: CTCLT01AYale Bowl

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **81 Central Avenue in New Haven, Connecticut** for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The number of  $\mu\text{W}/\text{cm}^2$  calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits; therefore, it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately  $400 \mu\text{W}/\text{cm}^2$  and  $467 \mu\text{W}/\text{cm}^2$ , respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is  $1000 \mu\text{W}/\text{cm}^2$ . Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.





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Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

## CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at 81 Central Avenue in New Haven, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower. **All calculations were performed using Far Field Analysis.**

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

- 1) 2 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a total transmit power of 120 Watts per Channel.
- 2) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a total transmit power of 120 Watts per Channel.
- 3) 1 LTE Traffic channel (LTE IC and 2C BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 45 Watts.
- 4) 1 LTE Broadcast channel (LTE IC and 2C BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 15 Watts.
- 5) 1 NR Traffic channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 90 Watts.
- 6) 1 NR Broadcast channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 30 Watts.



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- 7) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 8) For the following far field calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 9) The antennas used in this modeling are the COMMSCOPE SON\_5NPX1006F Beam I 06DT 1900 for the 1900 MHz / 2100 MHz channel(s), the ERICSSON SON\_AIR6449 2500 LTE TB for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s) in Sector A. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 10) The antenna mounting height centerline of the proposed antennas is 60 feet above ground level (AGL).
- 11) Emissions from additional carriers were not included because there are no other carriers on this site.
- 12) All calculations were done with respect to uncontrolled / general population threshold limits.



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## T-Mobile Site Inventory and Power Data

Sector:	A
Antenna #:	1
Make / Model:	COMMSCOPE SON_5NPX1006F Beam 1 06DT 1900
Frequency Bands:	1900 MHz / 1900 MHz / 1900 MHz / 1900 MHz / 1900 MHz / 1900 MHz / 2100 MHz / 2100 MHz / 2100 MHz / 2100 MHz
Gain:	18.45 dBd / 19.94 dBd / 20.4 dBd / 19.93 dBd / 18.51 dBd / 18.73 dBd / 20.33 dBd / 20.43 dBd / 20.19 dBd / 19.02 dBd
Height (AGL):	60 feet
Channel Count:	20
Total TX Power (W):	480.00 Watts
ERP (W):	26,212.40
Antenna A1 MPE %:	32.32%
Antenna #:	2
Make / Model:	ERICSSON SON_AIR6449 2500 LTE TB
Frequency Bands:	2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz
Gain:	22.35 dBd / 22.35 dBd / 17.3 dBd / 17.3 dBd
Height (AGL):	60 feet
Channel Count:	4
Total TX Power (W):	180.00 Watts
ERP (W):	25,608.41
Antenna A2 MPE %:	31.57%





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Site Composite MPE %	
Carrier	MPE %
T-Mobile (Max at Sector A):	12.45%
no additional carriers	N/A
Site Total MPE % :	12.45%

T-Mobile Sector A Total:	12.45%
Site Total MPE % :	12.45%

T-Mobile Maximum MPE Power Values (Sector A)							
T-Mobile Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ( $\mu\text{W}/\text{cm}^2$ )	Frequency (MHz)	Allowable MPE ( $\mu\text{W}/\text{cm}^2$ )	Calculated % MPE
T-Mobile 1900 MHz LTE	2	991.7706269	60	24.45514596	1900 MHz LTE	1000.0	2.45%
T-Mobile 1900 MHz LTE	2	1397.691235	60	34.46436326	1900 MHz LTE	1000.0	3.45%
T-Mobile 1900 MHz LTE	2	1553.857691	60	38.3151261	1900 MHz LTE	1000.0	3.83%
T-Mobile 1900 MHz LTE	2	1394.476634	60	34.38509743	1900 MHz LTE	1000.0	3.44%
T-Mobile 1900 MHz LTE	2	1005.567531	60	24.79535093	1900 MHz LTE	1000.0	2.48%
T-Mobile 2100 MHz LTE	2	1057.818704	60	26.08376382	2100 MHz LTE	1000.0	2.61%
T-Mobile 2100 MHz LTE	2	1529.013225	60	37.7025096	2100 MHz LTE	1000.0	3.77%
T-Mobile 2100 MHz LTE	2	1564.628518	60	38.58071387	2100 MHz LTE	1000.0	3.86%
T-Mobile 2100 MHz LTE	2	1480.509647	60	36.50650517	2100 MHz LTE	1000.0	3.65%
T-Mobile 2100 MHz LTE	2	1130.866247	60	27.88497498	2100 MHz LTE	1000.0	2.79%
T-Mobile 2500 MHz LTE	1	7730.587742	60	95.31067288	2500 MHz LTE	1000.0	9.53%
T-Mobile 2500 MHz NR	1	15461.17548	60	190.6213458	2500 MHz NR	1000.0	19.06%
T-Mobile 2500 MHz LTE	1	805.5476946	60	9.931624265	2500 MHz LTE	1000.0	0.99%
T-Mobile 2500 MHz NR	1	1611.095389	60	19.86324853	2500 MHz NR	1000.0	1.99%
						<b>Total:</b>	<b>12.45%</b>

• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.



# EBI Consulting

environmental | engineering | due diligence

## Summary

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

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

T-Mobile Sector	Power Density Value (%)
Sector A:	12.45%
T-Mobile Maximum MPE % (Sector A):	12.45%
Site Total:	12.45%
Site Compliance Status:	<b>COMPLIANT</b>

The anticipated composite MPE value for this site assuming all carriers present is **12.45%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

**150 YALE AV****Location** 150 YALE AV**Mblu** 377/ 1079/ 00120/ /**Acct#****Owner** YALE UNIVERSITY**Assessment** \$61,491,080**Appraisal** \$87,844,400**PID** 23838**Building Count** 2**Current Value**

Appraisal			
Valuation Year	Improvements	Land	Total
2016	\$85,708,100	\$2,136,300	\$87,844,400
Assessment			
Valuation Year	Improvements	Land	Total
2016	\$59,995,670	\$1,495,410	\$61,491,080

**Owner of Record**

**Owner** YALE UNIVERSITY  
**Co-Owner**  
**Address** YALE U CONTROLLER FRA  
 PO BOX 208372  
 NEW HAVEN, CT 06520-8372

**Sale Price** \$0  
**Certificate**  
**Book & Page**  
**Sale Date**

**Ownership History**

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
YALE UNIVERSITY	\$0			

**Building Information****Building 1 : Section 1**

**Year Built:** 1913  
**Living Area:** 302,262  
**Replacement Cost:** \$136,704,035  
**Building Percent** 60  
**Good:**  
**Replacement Cost**  
**Less Depreciation:** \$82,022,400

**Building Photo**

Building Attributes	
Field	Description
STYLE	Stadium
MODEL	Ind/Lg Com

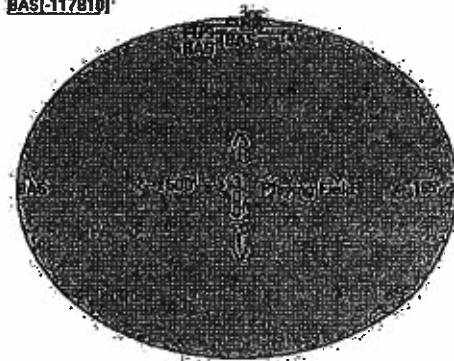
Grade	Average
Stories:	1
Occupancy	1
Exterior Wall 1	Reinforc Concr
Exterior Wall 2	Drivit
Roof Structure	Reinforc Concr
Roof Cover	Metal/Tin
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Dirt/None
Interior Floor 2	Concr-Finished
Heating Fuel	None
Heating Type	None
AC Type	None
Bldg Use	STADIUMS
Total Rooms	
Total Bedrms	00
Total Baths	0
NBHD Code	
1st Floor Use:	3650
Heat/AC	NONE
Frame Type	REINF. CONCR
Baths/Plumbing	LIGHT
Ceiling/Wall	NONE
Rooms/Prtns	ABOVE AVERAGE
Wall Height	48
% Conn Wall	



(<http://images.vgsi.com/photos/NewHavenCTPhotos/\00\04\91\80.JPG>)

#### Building Layout

CAN-117810  
BAS-117810



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	297,689	297,689
FUS	Finished Upper Story	4,814	4,573
CAN	Canopy	0	0
		302,503	302,262

#### Building 2 : Section 1

Year Built: 2010  
 Living Area: 6,239  
 Replacement Cost: \$3,074,255  
 Building Percent: 96  
 Good:  
 Replacement Cost  
 Less Depreciation: \$2,951,300

Building Attributes : Bldg 2 of 2	
Field	Description
STYLE	Stadium
MODEL	Commercial
Grade	Average
Stories:	3.5
Occupancy	1

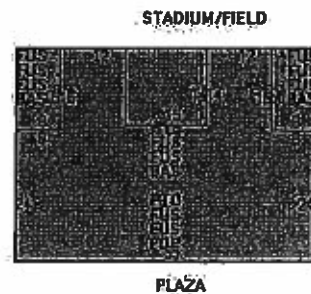
#### Building Photo

☒ Building Photo

(<http://images.vgsi.com/photos/NewHavenCTPhotos/default.i>)

Exterior Wall 1	Stucco
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Custom
Interior Wall 1	Drywall/Plaste
Interior Wall 2	Minim/Masonry
Interior Floor 1	Ceram Clay Til
Interior Floor 2	Vnyl/Asphalt
Heating Fuel	Gas/Oil
Heating Type	FA/HW/ST
AC Type	Central
Bldg Use	PVT COLL MDL-96
Total Rooms	
Total Bedrms	
Total Baths	
NBHD Code	
1st Floor Use:	
Heat/AC	HEAT/AC PKGS
Frame Type	STEEL
Baths/Plumbing	ABOVE AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	ABOVE AVERAGE
Wall Height	14
% Corn Wall	

## Building Layout



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
FUS	Finished Upper Story	4,530	4,304
BAS	First Floor	1,935	1,935
FOP	Open Porch	210	0
PTO	Patio	1,905	0
		8,580	6,239

## Extra Features

Extra Features				Legend
Code	Description	Size	Value	Bldg #
ELV2	PASS ELEV	4 STOPS	\$119,000	2

## Land

## Land Use

**Use Code** 904L  
**Description** PVT COLL MDL-96  
**Zone** RM1  
**Neighborhood** N  
**Alt Land Appr** No  
**Category**

## Land Line Valuation

**Size (Acres)** 10.4  
**Frontage** 0  
**Depth** 0  
**Assessed Value** \$1,495,410  
**Appraised Value** \$2,136,300

## Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
OTH	OTHER			70000 S.F.	\$367,500	1

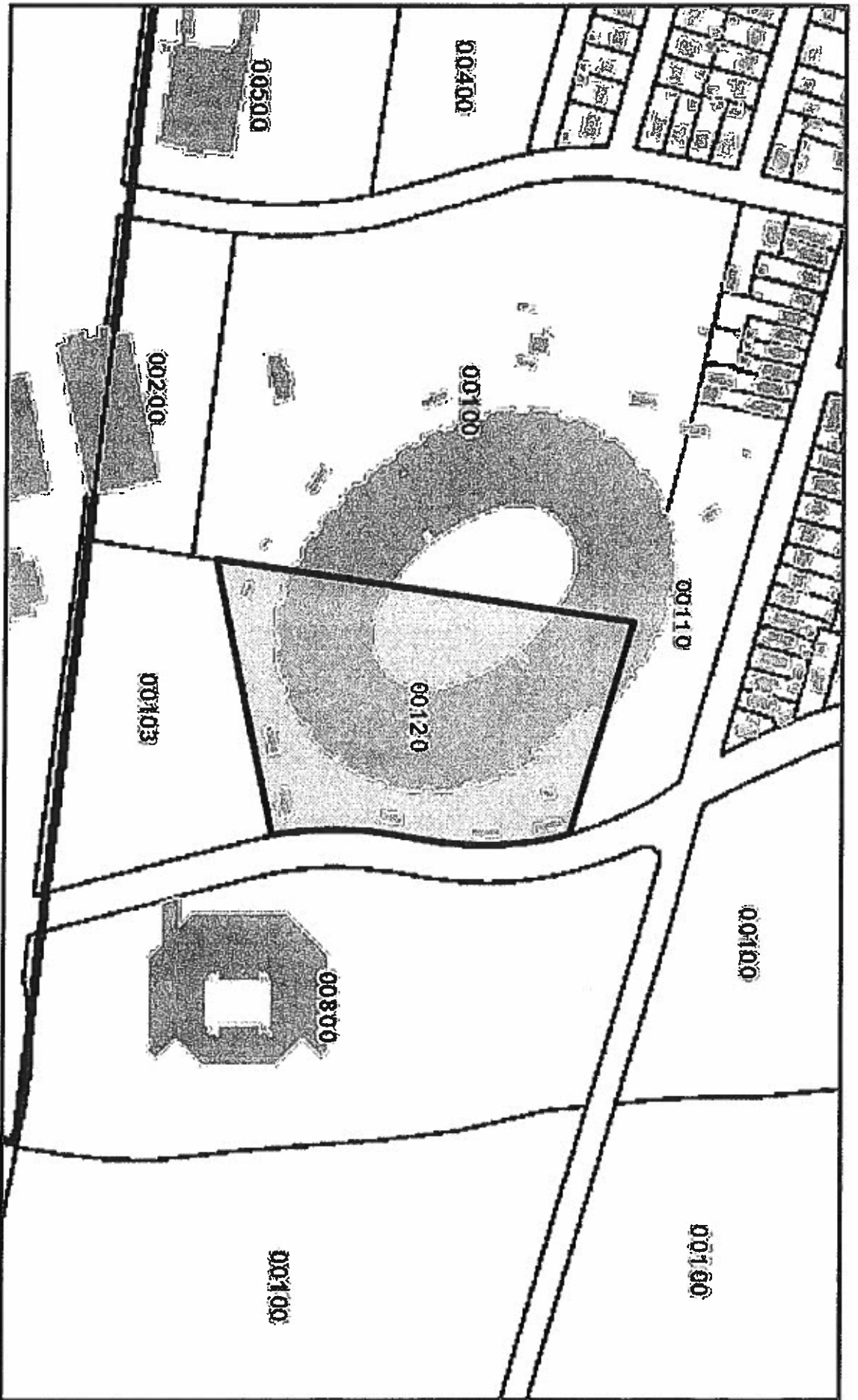
SHP2	WORK SHOP GOOD			1544 S.F.	\$19,300	1
BHS1	OIL STGE BBL			5120 S.F.	\$199,700	1
FGR1	GARAGE-AVE			1200 S.F.	\$21,000	1
FN3	FENCE-6' CHAIN			1260 L.F.	\$7,900	1

**Valuation History**

Appraisal			
Valuation Year	Improvements	Land	Total
2016	\$85,708,100	\$2,136,300	\$87,844,400
2015	\$80,126,300	\$2,084,200	\$82,210,500
2014	\$80,126,300	\$2,084,200	\$82,210,500

Assessment			
Valuation Year	Improvements	Land	Total
2016	\$59,995,670	\$1,495,410	\$61,491,080
2015	\$56,088,410	\$1,458,940	\$57,547,350
2014	\$56,088,410	\$1,458,940	\$57,547,350

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8/14/2017



# 150 YALE AV NEW HAVEN, CT

1 inch = 444 feet

**165 CENTRAL AV**

**Location** 165 CENTRAL AV      **Mblu** 377/ 1079/ 00100/ /  
**Acct#**      **Owner** YALE UNIVERSITY  
**Assessment** \$5,307,960      **Appraisal** \$7,582,800  
**PID** 23836      **Building Count** 1

**Current Value**

Appraisal			
Valuation Year	Improvements	Land	Total
2016	\$4,984,400	\$2,598,400	\$7,582,800
Assessment			
Valuation Year	Improvements	Land	Total
2016	\$3,489,080	\$1,818,880	\$5,307,960

**Owner of Record**

**Owner** YALE UNIVERSITY      **Sale Price** \$0  
**Co-Owner**      **Certificate**  
**Address** YALE U CONTROLLER FRA      **Book & Page**  
          PO BOX 208372      **Sale Date**  
          NEW HAVEN, CT 06520-8372

**Ownership History**

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
YALE UNIVERSITY	\$0			

**Building Information****Building 1 : Section 1**

**Year Built:** 2010  
**Living Area:** 5,688  
**Replacement Cost:** \$4,872,270  
**Building Percent** 96  
**Good:**  
**Replacement Cost**  
**Less Depreciation:** \$4,677,400

**Building Photo**

Building Attributes	
Field	Description
STYLE	Stadium
MODEL	Ind/Lg Com

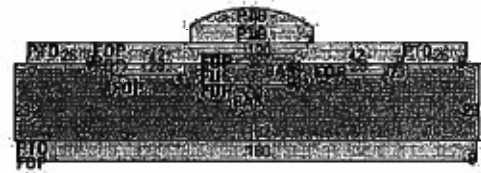


Grade	Very Good
Stories:	2
Occupancy	1
Exterior Wall 1	Stucco
Exterior Wall 2	
Roof Structure	Shed
Roof Cover	Custom
Interior Wall 1	Drywall/Plaste
Interior Wall 2	Minim/Masonry
Interior Floor 1	Ceram Clay Til
Interior Floor 2	
Heating Fuel	Gas/Oil
Heating Type	FA/HW/ST
AC Type	Central
Bldg Use	PVT COLL MDL-96
Total Rooms	
Total Bedrms	
Total Baths	
NBHD Code	
1st Floor Use:	
Heat/AC	HEAT/AC PKGS
Frame Type	STEEL
Baths/Plumbing	AVERAGE
Celling/Wall	TYPICAL
Rooms/Prtns	AVERAGE
Wall Height	20
% Conn Wall	



(<http://images.vgsi.com/photos/NewHavenCTPhotos/\00\04\91\78.JPG>)

#### Building Layout



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	5,278	5,278
FUS	Finished Upper Story	432	410
FOP	Open Porch	3,872	0
PTO	Patio	2,420	0
		12,002	5,688

#### Extra Features

Extra Features				Legend
Code	Description	Size	Value	Bldg #
ELV2	PASS ELEV	2 STOPS	\$59,500	1

#### Land

##### Land Use

**Use Code** 904L  
**Description** PVT COLL MDL-96  
**Zone** RM1/RS2  
**Neighborhood** N  
**Alt Land Appr** No

##### Land Line Valuation

**Size (Acres)** 12.65  
**Frontage** 0  
**Depth** 0  
**Assessed Value** \$1,818,880  
**Appraised Value** \$2,598,400

**Category****Outbuildings**

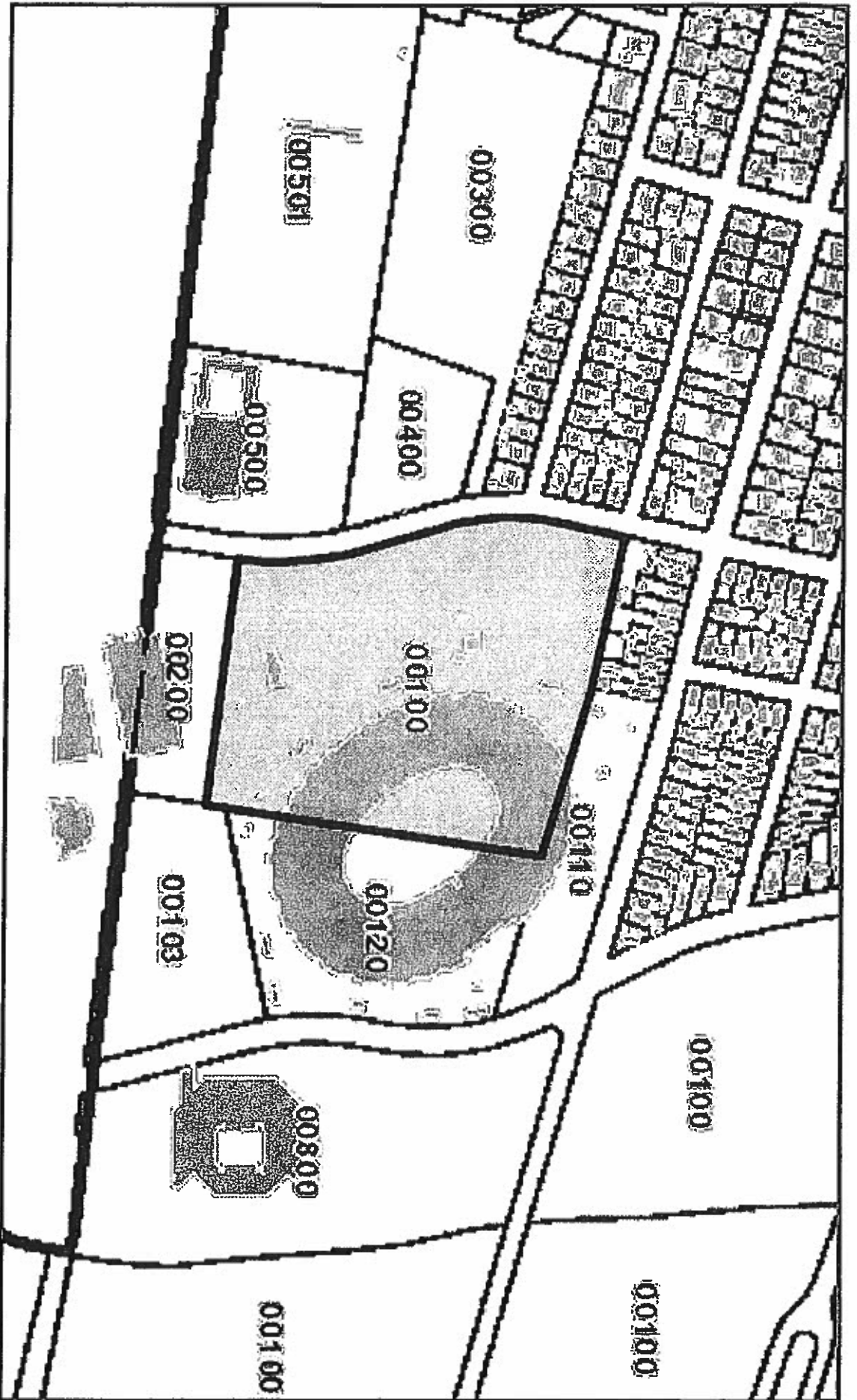
Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
ASTR	ASTRO TURF			105300 S.F.	\$247,500	1

**Valuation History**

Appraisal			
Valuation Year	Improvements	Land	Total
2016	\$4,984,400	\$2,598,400	\$7,582,800
2015	\$4,844,300	\$2,535,100	\$7,379,400
2014	\$4,844,300	\$2,535,100	\$7,379,400

Assessment			
Valuation Year	Improvements	Land	Total
2016	\$3,489,080	\$1,818,880	\$5,307,960
2015	\$3,391,010	\$1,774,570	\$5,165,580
2014	\$3,391,010	\$1,774,570	\$5,165,580

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## 165 CENTRAL AV NEW HAVEN, CT

1 inch = 744 feet

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8/14/2017





WEST BRIDGEWATER  
78 N MAIN ST  
WEST BRIDGEWATER, MA 02379-9998  
(800)275-8777

08/14/2023 10:18 AM

Product	Qty	Unit Price	Price
---------	-----	------------	-------

Priority Mail®	1		\$9.65
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Flat Rate Env

New Haven, CT 06510

Flat Rate

Expected Delivery Date

Wed 08/16/2023

Tracking #:

9505 5129 6292 3226 3600 43

Insurance

\$0.00

Up to \$100.00 included

Total			\$9.65
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Priority Mail®	1		\$9.65
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Flat Rate Env

New Haven, CT 06511

Flat Rate

Expected Delivery Date

Wed 08/16/2023

Tracking #:

9505 5129 6292 3226 3600 67

Insurance

\$0.00

Up to \$100.00 included

Total			\$9.65
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Grand Total:			\$19.30
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Debit Card Remit			\$19.30
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Card Name: VISA

Account #: XXXXXXXXXXXX6625

Approval #: 091754

Transaction #: 560

Receipt #: 021996

Debit Card Purchase: \$19.30

AID: A0000000980840

Chip

AL: US DEBIT

PIN: Verified

Text your tracking number to 28777 (2USPS) to get the latest status. Standard Message and Data rates may apply. You may also visit [www.usps.com](http://www.usps.com) USPS Tracking or call 1-800-222-1811.

Save this receipt as evidence of insurance. For information on filing an insurance claim go to <https://www.usps.com/help/claims.htm> or call 1-800-222-1811

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All sales final on stamps and postage.  
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