MITIMCo
Owner/ Project Proponent

Redgate
Project Management

Elkus Manfredi Architects
Master-Planning Architect

Reed Hilderbrand
Landscape Architect

Goulston & Storrs
Galluccio & Watson
Legal

Graffito SP
Retail and Placemaking

VHB
Transportation Engineering

VHB
Civil Engineering

Atelier Ten
Sustainability Consultant

Buro Happold
M/E/P Engineering

McPhail Associates
Geo-Technical/ Geo-Environmental

Theater Consultants Collaborative
Webb Management
Entertainment Consultant

RWDI Consulting Engineers
Wind Consultant

VHB
Surveyor

Jensen Hughes
Code Consultant

Acentech
Acoustical Engineering

Solomon McCown & Cence
Communications
Volume 1: Narrative

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1. SUBMISSION MATERIALS
June 4, 2021

VIA HAND DELIVERY

City of Cambridge
Office of the Planning Board
City Hall Annex
344 Broadway
Cambridge, Massachusetts 02139

RE: Volpe Exchange Parcel – 55 Broadway
Final Development Plan

Dear Members of the Planning Board:

MIT is pleased to submit to the Planning Board for review and consideration the enclosed Final Development Plan for the Volpe Exchange Parcel. This Final Development Plan submission is a continuation and refinement of the Development Proposal filed on February 4, 2021, with a subsequent hearing before the Planning Board held on April 6, 2021. The Final Development Plan responds to the comments and questions raised, and additional information requested, by the Planning Board at the April 6th hearing, and in its Preliminary Determination dated April 21, 2021.

In response to comments from the Planning Board, we have made several significant modifications that are reflected in our Final Development Plan. Specifically, we have:

- Reduced the size of the C1 footprint and shifted the C1 commercial building to provide for a larger open space at the Third Street Park;
- Increased the size of the Community Center from 20,000 square feet to 25,000 square feet;
- Committed to ensuring that approximately 50% of the participants at the Community Center will pay a reduced fee or will use the Center for free;
- Increased the amount of the Community Center operating endowment from $3.5 million to $10 million;
- Realigned Fifth Street to take the focus off of the electric equipment at the corner of Fifth and Potter Streets; and
- More clearly articulated the potential uses of the open spaces (and we will spend more time on those details at our hearing).

It should be noted that the Final Development Plan supplements the materials submitted by MIT in connection with its pending application for an Article 19 Project Review Special Permit, and should be considered together with that prior submission, as a single, comprehensive application for a PUD Special Permit as well as an Article 19 Project Review Special Permit.
Dear Members of the Planning Board:

MIT is pleased to submit to the Planning Board for review and consideration the enclosed Final Development Plan for the Volpe Exchange Parcel. This Final Development Plan submission is a continuation and refinement of the Development Proposal filed on February 4, 2021, with a subsequent hearing before the Planning Board held on April 6, 2021. The Final Development Plan responds to the comments and questions raised, and additional information requested, by the Planning Board at the April 6th hearing, and in its Preliminary Determination dated April 21, 2021.

In response to comments from the Planning Board, we have made several significant modifications that are reflected in our Final Development Plan. Specifically, we have:

• Reduced the size of the C1 footprint and shifted the C1 commercial building to provide for a larger open space at the Third Street Park;
• Increased the size of the Community Center from 20,000 square feet to 25,000 square feet;
• Committed to ensuring that approximately 50% of the participants at the Community Center will pay a reduced fee or will use the Center for free;
• Increased the amount of the Community Center operating endowment from $3.5 million to $10 million;
• Realigned Fifth Street to take the focus off of the electric equipment at the corner of Fifth and Potter Streets; and
• More clearly articulated the potential uses of the open spaces (and we will spend more time on those details at our hearing).

All of these changes — and additional revisions in response to your suggestions — are outlined in our submission.

It should be noted that the Final Development Plan supplements the materials submitted by MIT in connection with its pending application for an Article 19 Project Review Special Permit, and should be considered together with that prior submission, as a single, comprehensive application for a PUD Special Permit as well as an Article 19 Project Review Special Permit.

MIT appreciates the time and consideration that the Planning Board, the Community Development Department, many other City staff, and the Cambridge community have given to this important project. MIT looks forward to the opportunity to present this exciting Final Development Plan to you in the near future.

Thank you.

Sincerely,

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Seth D. Alexander
Authorized Signatory,
President, MIT Investment Management Company

Enclousures
### List of Assessor Parcels:

- 33 Broadway, Tax ID 44-71
- 2 Potter Street, Tax ID 29-39
- 20 Potter Street, Tax ID 29-49
- 156 Linsky Way, Tax ID 29-48
- Sixth Street (unnumbered), Tax ID 29-45
- 220 Binney Street, Tax ID 28-44
- 60 Sixth Street, Tax ID 28-26
- 182 Binney Street, Tax ID 28-39
1B. Dimensional Form

<table>
<thead>
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<th>Project Address:</th>
<th>Application Date:</th>
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<table>
<thead>
<tr>
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<th>Existing</th>
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<th>Proposed</th>
<th>Permitted</th>
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<tr>
<td>Lot Width (ft)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Total Gross Floor Area (sq ft)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residential Base</td>
<td></td>
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</tr>
<tr>
<td>Non-Residential Base</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Inclusionary Housing Bonus</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Total Floor Area Ratio</td>
<td></td>
<td></td>
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<tr>
<td>Residential Base</td>
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<tr>
<td>Non-Residential Base</td>
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<td></td>
</tr>
<tr>
<td>Inclusionary Housing Bonus</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Total Dwelling Units</td>
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</tr>
<tr>
<td>Base Units</td>
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<tr>
<td>Inclusionary Bonus Units</td>
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<tr>
<td>Base Lot Area / Unit (sq ft)</td>
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<tr>
<td>Total Lot Area / Unit (sq ft)</td>
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<tr>
<td>Building Height(s) (ft)</td>
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<td></td>
</tr>
<tr>
<td>Front Yard Setback (ft)</td>
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<tr>
<td>Side Yard Setback (ft)</td>
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<td>Side Yard Setback (ft)</td>
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<tr>
<td>Rear Yard Setback (ft)</td>
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<td></td>
</tr>
<tr>
<td>Open Space (% of Lot Area)</td>
<td></td>
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</tr>
<tr>
<td>Private Open Space</td>
<td></td>
<td></td>
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<tr>
<td>Permeable Open Space</td>
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<td></td>
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<tr>
<td>Other Open Space (Specify)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Off-Street Parking Spaces</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-Term Bicycle Parking</td>
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</tr>
<tr>
<td>Short-Term Bicycle Parking</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Loading Bays</td>
<td></td>
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</tbody>
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*Please see the project specific Dimensional Form attached behind.*

Use space below and/or attached pages for additional notes:

CITY OF CAMBRIDGE, MA • PLANNING BOARD • SPECIAL PERMIT APPLICATION
<table>
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<th>Existing</th>
<th>Max. Allowed</th>
<th>Required</th>
<th>Proposed</th>
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<td>Lot Width</td>
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<tr>
<td><strong>Gross Floor Area (sf) (2)</strong></td>
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<td>Government Use (3)</td>
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<td>Commercial (Lab/Office)(Max) (4)</td>
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<td>83,663</td>
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<td>Residential (Min) (6)</td>
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<td>1,128,000</td>
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<td>Note (7)</td>
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<td><strong>Total GFA</strong></td>
<td>375,000</td>
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<td>2,820,000</td>
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<td><strong>Exempt Uses (sf)</strong></td>
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<td>Retail/Active Use (7)</td>
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<td>Note (4)</td>
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<td>Innovation Lab/Office (5)</td>
<td>0</td>
<td>83,663</td>
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<td>Community Space (8)</td>
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<td><strong>Total Exempt Uses</strong></td>
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<td>Dwelling Units (approximately)</td>
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<tr>
<td>Front Yard Setback</td>
<td>n/a</td>
<td>n/a</td>
<td>0</td>
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<tr>
<td>Side Yard Setback</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>Rear Yard Setback</td>
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<tr>
<td>Open Space, Publicly Beneficial (9), (10)</td>
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<td>115,815 sf/25%</td>
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<td>87,120 sf</td>
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<td><strong>Vehicular Parking Spaces (11), (12)</strong></td>
<td>570</td>
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<td>1,759</td>
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<td><strong>Bicycle Parking</strong></td>
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<td>Long-Term Spaces</td>
<td>n/a</td>
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<td>1,876</td>
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<td>Short-Term Spaces (13)</td>
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<td>Loading Bays (14)</td>
<td>n/a</td>
<td>n/a</td>
<td>NOTE (14)</td>
</tr>
</tbody>
</table>

[1] Development Parcel does not include 5,890 sf “CRA Triangle Parcel” or 1,618 sf “GSA Triangle Parcel” shown on Figure A1. Survey, one or both of which may be added in the future.

[2] GFA and long-term bicycle parking spaces differ from the TIS program to the extent that the Hotel GFA has been converted to Residential GFA.

[3] Government uses will be relocated to the Government Owned Lot, located in PUD-7, but not part of the Project Development Parcel.

[4] Includes all Office and Laboratory uses listed in Section 4.34 of the Cambridge Zoning Ordinance (“CZO”).

[5] Includes the Innovation Space required per Section 13.96.3 of the CZO, and subject to the GFA exemptions set forth therein. The Innovation Space exemption is calculated per Section 13.93.1[b][3] of the CZO.

[6] Includes all uses listed in Section 4.31 of the CZO, including Multifamily Dwelling of the CZO; presently, MIT does not currently plan to include any hotel use (Section 4.31[b][2]) within the Project, but may add limited hotel use by minor amendment to the development, subject to complying with the requirements of Section 13.93.1[c](2).

[7] Includes all uses listed in Section 4.35 of the CZO, other than subsection[j], includes exemption and will meet frontage requirement specified in Section 13.96.1(b)(1) of the CZO.

[8] Includes Community Space meeting the requirements of Section 13.96.5 and that is exempt in accordance with Section 13.93.1[b][5] of the CZO.

[9] Required Publicly Beneficial Open Space of 115,815 sf reflects the requirement of Section 13.94(a) of the CZO that 25% of the land area of the PUD-7 District, less the Government Owned Parcel, shall be Public Open Space. The 152,460 sf is approximately 33.5% of the Development Parcel and 32.9% of the entire PUD-7 land area, less the Government Owned Parcel.

[10] Approximately 1,608 sf of additional Publicly Beneficial Open Space may be located on a triangle parcel (See Note 1, above).

[11] Includes both off-street (below grade garage) and on-street parking on new private streets.

[12] Existing parking, related to the Government Use, is reduced from 570 spaces to 318 spaces and has been relocated to Federal Parcel in PUD-7.

[13] Assumes the most intensive use of all retail space within the Development Parcel (i.e., restaurant use). The amounts of both required and provided short-term bicycle parking spaces may be adjusted based upon the final programming to be determined during the Design Review Process.

[14] Loading bays will be as provided in the forthcoming Design Review submissions per the provisions of Section 13.95.8.
1C. Ownership Certificate

OWNERSHIP CERTIFICATE

Project Address: TBD  Application Date: TBD

This form is to be completed by the property owner, signed, and submitted with the Special Permit Application:

I hereby authorize the following Applicant:
Massachusetts Institute of Technology

at the following address:
400 Memorial Drive, Suite 2-200, Cambridge, MA 02139

for the redevelopment of the Volpe Exchange Parcel
TBD

United States of America
10 Causeway Street, Boston, MA 02130

by a deed duly recorded in the:
Registry of Deeds of County: Middlesex
OR
Registry District of the Land Court, Certificate No.

Signature of Land Owner (If authorized Trustee, Officer or Agent, so identify)

To be completed by Notary Public:

Commonwealth of Massachusetts, County of Suffolk

The above named John Kelly personally appeared before me,

on the month, day and year October 29, 2020 and made oath that the above statement is true.

Notary: Carol H. Chirico

My Commission expires: 11-2-2023

CITY OF CAMBRIDGE, MA • PLANNING BOARD • SPECIAL PERMIT APPLICATION
1D. Fee Schedule

FEE SCHEDULE

Project Address: Volpe Exchange Parcel - 55 Broadway  Application Date:

The Applicant must provide the full fee (by check or money order) with the Special Permit Application. Depending on the nature of the proposed project and the types of Special Permit being sought, the required fee is the larger of the following amounts:

- If the proposed project includes the creation of new or substantially rehabilitated floor area, or a change of use subject to Section 19.20, the fee is ten cents ($0.10) per square foot of total proposed Gross Floor Area.

- If a Flood Plain Special Permit is being sought as part of the Application, the fee is one thousand dollars ($1,000.00), unless the amount determined above is greater.

- In any case, the minimum fee is one hundred fifty dollars ($150.00).

Fee Calculation

<table>
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<tr>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>New or Substantially Rehabilitated Gross Floor Area (SF):</td>
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<tr>
<td>Flood Plain Special Permit</td>
<td>$1,000.00</td>
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<tr>
<td>Other Special Permit</td>
<td>$150.00</td>
</tr>
<tr>
<td><strong>TOTAL SPECIAL PERMIT FEE</strong></td>
<td><strong>$300,641.30</strong></td>
</tr>
</tbody>
</table>

CITY OF CAMBRIDGE, MA • PLANNING BOARD • SPECIAL PERMIT APPLICATION
1E. Certifications of Receipt of Plans

Attached are completed Certifications of Receipt of Plans from the City of Cambridge Arborist, the City of Cambridge Traffic, Parking and Transportation Department, the City of Cambridge LEED Specialist and the City of Cambridge Water Department. As is their practice, the City of Cambridge Department of Public Works will submit their Certification of Receipt of Plans following submission of this Application.
Subject: Certification of Tree Study for Volpe Site

Hi Liza,

I have reviewed the Tree Study for the project at The Volpe Site and it is complete and meets all the requirements needed for certification by the City Arborist as defined in 8.66.030. The final locations and quantity of Replacement Trees may be adjusted based on recommendations from the Special Permit Process. Any proposed changes to Replacement Trees or the Mitigation amount will be reviewed and approved by Public Works through each subsequent parcel design.

Please let me know if you have any questions.

Thank you,

Andrew Putnam
Superintendent of Urban Forestry & Landscapes
(617)‐349‐4888
November 4, 2020

Selma Mandzo
VHB Inc.
99 High Street, 10th Floor
Boston, MA 02110

Michael Owu
MITIMCo
238 Main Street, Suite 200
Cambridge, MA 02142-1012
Suite 101
Cambridge, MA 02139

RE: MIT Volpe Exchange Parcel, Transportation Impact Study (TIS)

Dear Selma and Michael:

The Cambridge Traffic, Parking, and Transportation Department (TP+T) received the Transportation Impact Study (TIS) on August 13, 2020 for the approximately 3 million square foot MIT Volpe Exchange Parcel Project. Based on staff review, some corrections were needed, and we sent you a non-certification memo dated September 3, 2020. We received your updated TIS on October 22, 2020, and based on staff review, the TIS is certified as accurate and complete.

We look forward to continuing to work with you on this exciting project. Going forward, key items that will need further work include the final number of automobile parking spaces and parking management, final site plans for the internal roadways and sidewalks layout designs, including future ownership or public easements, bicycle facility designs, and transportation mitigation, including timelines for mitigation.

Thank you for working with us on the TIS and please contact Adam Shulman of my staff at 617-349-4745 if you have any questions or to set up a follow-up meeting.

Very truly yours,

Joseph E. Barr
Director
Green Building Requirements

Status: The Community Development Department (CDD) received the final update of the Green Building Report (GBR) for the Special Permit stage of Volpe Planned Urban Development project pursuant to Section 22.25.1 of the Zoning Ordinance on 12/2/2020. The Volpe project, a mixed-use district, would consist of the following (approximately): 1,756,000 sf office/lab; 1,128,000 sf of residential (roughly 1,400 units); 75,000 sf of ground retail; 25,000 sf of entertainment and 20,000 sf Community Center space. The overall master plan would consist of a total gross floor area (GFA) of approximately 2,850,000 square feet on a 10-acre site which also includes a 2.5-acre open space.

CDD staff have reviewed the GBR of the development plan and offer the following Determination, Summary of Compliance and Advisory Comments on the project’s sustainability.

CDD Determination: The documentation provided by the Applicant sufficiently demonstrates compliance with the Green Building Requirements of Section 22.24 at the special permit stage of review. Sustainability Plan for the project will be reviewed and approved in the Final Development Proposal. Separate Green Building Reports for each building will be required during design review of individual buildings.

LEED Rating System: LEED v4 BD+C: Core and Shell for commercial buildings; LEED v4 BD+C: New Construction for residential buildings.

LEED Project Summary: This project is subject to the City’s Green Building Requirements (Section 22.20, Zoning Ordinance). The Project is currently meeting the minimum requirement by targeting LEED Gold under LEED v4 BD+C: New Construction with 67 projected points for the residential building, and also meeting the minimum requirement by targeting LEED v4 BD+C: Core and Shell Development with 73 projected points for the commercial buildings.

Summary of Compliance and Comments

Green Building Professional Affidavit Certification

- David Manfredi of Elkus Manfredi Architects Ltd. has been identified as the Green Building Professional for the project. The affidavit states that this professional has reviewed all relevant documents for this project and confirm to the best of his/her knowledge that those documents indicate that the project is being designed to achieve the requirements of Section 22.24 under Article 22.20 of the Cambridge Zoning Ordinance.
- A copy of the professional’s credential from Green Building Rating Program has been provided.

Rating System Checklist and Narrative

- The project is pursuing Integrative Process credit.
- The project is pursuing Enhanced Commissioning credit that includes commissioning process for various building systems and assemblies for residential buildings.
- The project is pursuing Enhanced Commissioning credit that includes monitoring-based commissioning process for various building systems and assemblies as well as commissioning for the building’s thermal envelope for commercial buildings.
Certifications of Receipt of Plans from the City of Cambridge Water Department

CITY OF CAMBRIDGE, MASSACHUSETTS
PLANNING BOARD
CITY HALL ANNEX, 344 BROADWAY, CAMBRIDGE, MA 02139

CERTIFICATION OF RECEIPT OF PLANS
BY CITY OF CAMBRIDGE WATER DEPARTMENT

City Department/Office: Cambridge Water Department
Project Address: MIT Volpe Exchange Parcel - 55 Broadway (PB368)
Applicant Name: Massachusetts Institute of Technology

For the purpose of fulfilling the requirements of Section 19.20 of the Cambridge Zoning Ordinance, this is to certify that this Department is in receipt of the application documents submitted to the Planning Board for approval of a Project Review Special Permit for the above referenced development project: (a) an application narrative and (b) small format application plans at 11” x 17” or the equivalent. The Department understands that the receipt of these documents does not obligate it to take any action related thereto.

Signature of City Department/Office Representative: __________________________
Date: 12/11/20

CITY OF CAMBRIDGE, MA • PLANNING BOARD • SPECIAL PERMIT APPLICATION
1F. Legal Descriptions

The Development Parcel for which the requested special permits are being sought is comprised of the following two parcels of land:

**Legal Description – Development Parcel 1A**

A certain parcel of land situated northerly of Broadway and westerly of Third Street in the City of Cambridge, in the County of Middlesex and the Commonwealth of Massachusetts bounded and described as follows:

Beginning at a point on the southeasterly corner of the herein described parcel, being monumented by a stone bound; thence

N 60°32'45" W a distance of three hundred seventy four and ninety three hundredths feet (374.93') to a point; thence

S 29°27'14" W a distance of twelve and no hundredths feet (12.00') to a point; thence

N 60°32'45" W a distance of four hundred seventy one and ten hundredths feet (471.10') to a point, the last three (3) courses by Broadway; thence

N 29°28'47" E a distance of four hundred sixty six and three hundredths feet (466.03) by a pedestrian way (Former Sixth Street) to a point; thence

S 60°34'24" E a distance of four hundred forty nine and sixty six hundredths feet (449.66') by that certain parcel of land now or formerly owned by The United States of America (the "Federal Parcel") (former northerly sideline of Potter Street) to a point; thence

N 09°29'35" E a distance of two hundred eighty and thirteen hundredths feet (280.13') by the westerly sideline of Fifth Street to a point; thence

S 80°30'09" E a distance of twenty five and no hundredths feet (25.00') through Fifth Street to a point; thence

S 09°29'35" W a distance of three hundred forty two and thirty nine hundredths feet (342.39') by the centerline of Fifth Street to a point; thence

S 60°33'41" E a distance of three hundred fifty five and sixty five hundredths feet (355.65') by the southerly sideline of Potter Street to a point; thence

S 27°06'16" W a distance of three hundred eighty three and seventy seven hundredths feet (383.77') to a point; thence

Westerly and curving to the right along the arc of a curve having a radius of twenty and no hundredths feet (20.00'), a length of thirty two and twenty four hundredths feet (32.24') to the point of beginning, the last two (2) courses by Third Avenue.

Said parcel contains 383,894 square feet or 8.813 acres more or less.
Legal Description – Development Parcel 1B

A certain parcel of land situated southerly of Binney Street and westerly of Third Street in the City of Cambridge, in the County of Middlesex and the Commonwealth of Massachusetts bounded and described as follows:

Beginning at a point on the southeasterly corner of the herein described parcel, being monumented by a drill hole; thence

N 80°30'09" W a distance of four hundred sixty and sixty eight hundredths feet (460.68') by the northerly sideline of Munroe Street to a point; thence

N 09°29'35" E a distance of one hundred fifty and forty nine hundredths feet (150.49') to a point, the last two (2) courses by the westerly sideline of former Fifth Street; thence

S 80°31'02" E a distance of four hundred seventy and fifty eig ht hundredths feet (470.58') by the southerly sideline of Binney Street to a point; thence

Southeasterly and curving to the right along the arc of a curve having a radius of twenty and no hundredths feet (20.00'), a length of thirty six and no hundredths feet (36.00') to a point; thence

S 22°36'34" W a distance of one hundred twenty nine and forty five hundredths feet (129.45') to a the point of beginning, last two (2) courses by land now or formerly owned by the Cambridge Redevelopment Authority.

Said parcel contains 71,856 square feet or 1.650 acres more or less.

The Development Parcel described above is comprised of portions of land located at 55 Broadway (33 Broadway, Tax ID 44-71; 2 Potter Street, Tax ID 29-39; 20 Potter Street, Tax ID 29-49; 156 Linsky Way, Tax ID 29-48; Sixth Street (unnumbered), Tax ID 29-45; 220 Binney Street, Tax ID 28-44; 160 Sixth Street, Tax ID 28-26; and 182 Binney Street, Tax ID 28-39) in Cambridge, Middlesex County, Commonwealth of Massachusetts, in which fee simple title thereto is vested in The United States of America by virtue of the following:

- Deed dated June 13, 1966, and filed with the Middlesex South District of Land Court as Document No. 433534 on Certificate of Title No. 121141;
- Deed dated June 29, 1966, recorded with the Middlesex South District Registry of Deeds in Book 11177, Page 165 and filed as Document No. 435270 on Certificate of Title No. 121644;
- Deed dated June 29, 1966, recorded with the Middlesex South District Registry of Deeds in Book 11152, Page 461 and filed as Document No. 434243 on Certificate of Title No. 121352;
- Deed dated February 21, 1968, recorded with the Middlesex South District Registry of Deeds in Book 11485, Page 330;
- Deed dated June 27, 1968, recorded with the Middlesex South District Registry of Deeds in Book 11536, Page 430;
- Deed dated January 31, 1969, recorded with the Middlesex South District Registry of Deeds in Book 11663, Page 300;
- Deed dated February 13, 1969, recorded with the Middlesex South District Registry of Deeds in Book 11672, Page 624;
- Deed dated September 23,1969, recorded with the Middlesex South District Registry of Deeds in Book 11743, Page 100;
- Deed dated July 7, 1976, recorded with the Middlesex South District Registry of Deeds in Book 13011, Page 258; and
- Deed dated September 30, 1980, recorded with the Middlesex South District Registry of Deeds in Book 17656, Page 8.
2. PROJECT DESCRIPTION
2. Project Description

A. Introduction

The proposed redevelopment of the majority of the current site of the Volpe National Transportation Systems Center (as further described herein, the “Project”) provides a unique opportunity to strengthen Kendall Square and create a new connection to the surrounding residential neighborhoods. The Project provides a mix of residential, office, lab, retail and cultural uses to promote new opportunities for shared discovery, community and collaboration.

For decades, MIT has worked with City leaders and the community to make Kendall a more diverse mixed-use district. The Project, as an interconnected mixed-use development, is intended to be an inclusive and equitable urban environment that nurtures, inspires and links arts and science, as well as people and events. To meet this intent, the Project is designed to include an array of workplaces, residences, retail, restaurants, arts and entertainment, recreation and active open space where people of all ages, abilities, incomes and backgrounds can live and feel welcome.

The Project’s proposed layout of walkable streets, active ground floors and four new vibrant parks creates a pedestrian-oriented experience that fosters face-to-face interaction. These amenities are designed to increase the frequency of interactions, build connections and bridge cultural differences.

Diverse housing options, consumer services, recreational amenities and multicultural programming are intended to draw a broad range of residents to the Project. This engagement of varying demographic groups will also provide opportunities for institutions and businesses to reach new audiences.

At least 40% of the non-exempt GFA included in the Project is devoted to residential use. This equates to approximately 1,400 units of new housing located throughout the four residential buildings. Twenty percent (20%) of the net residential unit square footage of each building will be designated as affordable. The Project also includes 20 middle-income units that will be affordable to eligible renters with incomes of 80% to 120% of the Area Median Income. The Project will include three-bedroom units to encourage families to live in the district. In addition, 5% of the net square footage of the net residential unit square footage is devoted to Innovation Units, defined as 350 to 450 SF, to further assist with affordability and diversity of housing on the Site. MIT will work with the City’s Housing Division to determine the distribution of inclusionary housing, middle-income, and Innovation Units.
The ground floors of the Project, including retail, restaurant, arts and entertainment and recreational uses, will provide the infrastructure needed to make Kendall Square a vibrant and unique destination for all of Cambridge and the Greater Boston area. To support its objectives of inclusivity and equity, MIT is creating an intentional outreach and input process to continue partnering with existing and future retailers to prioritize local concepts and expand minority leasing opportunities.

A significant feature of the Project is the proposed Community Center, which MIT has committed to build and endow in order to create an opportunity to bring residents of adjacent neighborhoods together with the Kendall community. MIT’s recent equity and inclusion workshop series reinforced community interest in both recreation and employment resources at the Volpe site. Since the Volpe Zoning process, the community has recognized the potential of these on site offerings in bringing diverse populations together. The Community Center can create relationships among youth, seniors, and families — with a particular focus on residents from adjacent neighborhoods — as well as new economy workers. Whether friendships are built on the basketball court or at the Job Connector, the Community Center will be a key unifier. The Job Connector was established in 2019 in The Port neighborhood so that its brand and work will be well under way when the Community Center opens. This career and job preparedness center will bridge recreation and employment in the new Volpe Community Center.

The Project includes a number of other uses, including retail, restaurant and entertainment uses, that are intended to promote interaction between local residents, employees and visitors to the Project and surrounding area. A state-of-the-art Entertainment Venue will anchor Loughrey Walkway side of the Project and enable visitors to experience events that are supported by the latest in sound and lighting technology. Broad Canal Way is a critical active connection linking the increasingly vibrant Third Street corridor and water connection through the Site to the Entertainment Venue and accompanying open spaces. Broad Canal Way will be pedestrian focused and activated with food offerings, retail and exhibit opportunities. It will serve as a central connection within the Volpe site for festivals, music and community events.

The Project will build upon recent developments in Kendall Square, including the relocated MIT Museum (which will offer free admittance to all Cambridge residents), that are intentionally designed to put innovation on display for all to experience. This visibility will increase access to ideas and concepts to those who do not work with them every day. In turn, this access will facilitate participation by a broader segment of the public in
the creation of future technological breakthroughs.

The desired interactions and access to the innovative nature of Kendall Square will be realized primarily through the design and programming of the lower floors. As envisioned, the Project will include up to 167,326 SF of Innovation Space that may be used for small business incubators and entrepreneurs. Final building programming will create opportunities to make this innovative work visible and amplify creative cross-disciplinary interfaces.

The Project will include an innovative blackwater treatment facility, the first of this scale in New England, that will support the recycling of 240,000 - 250,000 gallons of water per day. The Project is designed to maximize energy efficiency and support a path for a net-zero carbon future. The four residential buildings will be all-electric, and commercial buildings will be designed with a path to electrification that will integrate with the long-term vision for a low-carbon New England power grid. In addition, MIT has made a commitment to offset all remaining embodied carbon from construction of the development, as a step towards a carbon-neutral investment portfolio. This commitment is described in a recently released MIT report entitled Fast Forward: MIT’s Climate Action Plan for the Decade. The Project is also designed to adapt to future innovations in transportation technologies that are currently unforeseen.

This Master Plan provides a framework of site organization, massing, programming and impacts of the Project. Specific building and park designs will be presented to the Planning Board as part of the Design Review process. Programming for open space, retail and the Community Center will be informed by advisory committees which will include participants from the extensive community engagement process.

MIT is planning the Project in a holistic way to ensure strong connectivity and vibrancy with a focus on inclusion. The project team hosted a series of seven community workshops in 2020 and 2021 on the Community Center, open space, retail, housing and employment to gather input on how best to create a truly equitable and inclusive environment. Over 450 unique attendees engaged in the workshops which resulted in a robust inventory of ideas and suggestions, most of which are in the process of being incorporated into the plan.

### B. Existing Conditions and Site Context

The existing Volpe National Transportation Systems Center is located on an approximately 14-acre site in East Cambridge (the “Site”). The Site is generally bounded by Broadway to the south, Third Street to the east, Binney Street to the north and the Sixth Street/Loughrey Walkway (“Loughrey Walkway”) / Kittie Knox Bike Path to the west. The
existing property currently contains 6 buildings totaling approximately 375,000 gross square feet. The existing facility also contains 2 large surface parking lots with 570 parking spaces and some landscaping. As a federal government facility, the existing Site is fenced off from the surrounding area and unauthorized access is prohibited.

In 2014, the United States General Services Administration (the "GSA") solicited proposals for redevelopment of approximately 10 acres of the Site (as further described herein, such 10-acre +/- parcel, the "Development Parcel") in exchange for the construction of a new federal facility on the remaining approximately four acres of the Site (the "Government Owned Lot"). The GSA selected MIT as the developer in late 2016.

The Project is designed to support and promote the ongoing transition of Kendall Square from primarily office and lab space with limited ground floor use to a vibrant and active district that features a mix of residential, retail, office and lab space, all within close proximity to local research institutions that are part of the MIT community. In recent years, MIT has completed or is constructing approximately 100,000 SF of ground floor retail and active use space along Main Street, Broadway and Broad Canal Way, including the first grocery store in Kendall Square, Brother’s Marketplace, at One Broadway. MIT also built academic admissions space and approximately 450 graduate student units immediately adjacent to the MBTA Kendall Square Red Line station and will deliver 300 multifamily housing units (including 54 affordable units, 9 middle-income units and 36 Innovation Units) at 165 Main Street in mid-2022. Kendall Center, the Foundry, the proposed arts center at the Canal District, and the relocated MIT Museum currently under construction in the heart of Kendall will continue the process of connecting the Project’s active ground floor spaces to the larger community.

In recognition of the ongoing transformation in Kendall Square, the City of Cambridge (the "City") initiated a planning process to explore how the Site could become more accessible, user-friendly and tax-paying. The City and the community, including MIT, worked in collaboration to develop and build upon the 2013 Kendall Square (K2) Planning Study and Design Guidelines. In 2015, the Planning Board submitted two separate zoning amendments to the existing PUD-KS Overlay District to the City Council in June and December, respectively, but the Council chose not to ordain them. In 2016, the City appointed the Volpe Working Group which developed planning and urban design principles for the Site. This work culminated in the 2017 establishment of the PUD-7 Overlay District, the Volpe Working Group Planning and Design Principles and Volpe Site Design Guidelines, all of which guide this development proposal.

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1 For the purposes of this Application, the Development Parcel is the land area depicted on the plan entitled "Development Plan" and as indicated on the Dimensional Table measures 455,750 square feet. The Applicant, in filing this Application, would like to reserve the right to increase the size of the Development Parcel by adding either one or both of the abutting GSA Triangle Parcel, which is depicted on the Development Plan, and contains 1,618 square feet, and the CRA parcel abutting the northeast corner of the Development Parcel, measuring approximately 5,890 square feet, by delivery of notice to the Planning Board at any time prior to or following the granting of a PUD Final Development Plan Special Permit for the Project.
C. Status of Government Use

In 2017, MIT entered into an agreement to purchase the Development Parcel, which is currently tax-exempt, from the federal government for $750 million. Under the terms of the agreement, MIT is obligated to construct a new state-of-the-art, secure and consolidated building to replace the existing Volpe National Transportation Systems Center (the “US DOT Volpe Exchange Project”), prior to MIT acquiring and developing the Development Parcel.

The US DOT Volpe Exchange Project includes a new 400,000 SF office building located on an approximately four-acre parcel (the “Government Owned Lot”) situated at the corner of Loughrey Walkway and Binney Street. The new facility consolidates the operation of six existing buildings and surface parking lots into a single, efficient structure with underground parking and over 100 bicycle parking spaces. The new facility is designed to be approximately 217 feet in height and incorporates an enclosed, architecturally-integrated mechanical penthouse to minimize visual and noise pollution. It is designed to meet LEED Gold v.4 standards, with a prioritization on sustainability, and is oriented to maximize energy efficiency. The landscape plan for the area surrounding the new facility features over 100 new diverse native species trees at grade with a 40% increase in caliper inches, and an art piece designed by Maya Lin integrated into the landscape on the east side of the Government Owned Lot. The federal government currently contemplates that this landscape will be an art lawn that is open to the public.


D. Statement of Development Concept/Project Overview

a. MIT Volpe Values

The Project will be developed with the following priorities in design:

- Equity and Inclusion
- Diverse Housing Opportunities
- Innovative Science and Research Space
- Publicly Beneficial Open Space
- Retail and Active Uses on the Ground Floors
- Sustainability and Resiliency
As MIT plans the Project, it understands that it is doing so in a time of heightened awareness to racial injustice and inequity. As an institution of higher learning and thought leadership, MIT is listening to the community to learn and understand, evaluate opportunities, and apply new insights to all that MIT undertakes. The work to engage the community around issues of race, equity and inclusion will be intentional and ongoing.

Since its inception in 2016, the Project’s planning efforts have been informed not only by learning from prior experiences, but also a sharpened focus on diversity, equity and inclusion. While the Project reflects this focus, MIT is continuing to look for opportunities to more fully integrate these values into affordable housing, the Community Center, retail, employment opportunities and open space. Alongside the Cambridge community, MIT will closely examine the role and mission of the Community Center, including the Job Connector (now fully operational in The Port), and its connection to sustainability, open space, innovation and commercial activities. The Project’s housing will be carefully designed and managed to increase racial equity and inclusion.

MIT committed to building a Community Center on the Development Parcel and as an integral part of the Project. MIT’s hope is that the Community Center and Job Connector will draw in a diverse community and, along with the Project’s proposed housing and retail, ensure an inclusive and welcoming project for all.

As part of the zoning for the Volpe Project, MIT committed to fund up to $22 million towards design and construction costs and $3.5 million as an endowment for the initial operations of the Community Center.

MIT is committed to a Project that locates the Community Center in the base of the R1 residential building along Potter Street near the intersection with Fifth Street. The size of the Community Center will total approximately 25,000 square feet. There is flexibility in the programming of the spaces within the facility. MIT believes that special and unique interactions happen in gyms and during recreational activities and anticipates that recreational programming will be a key component to the plan.

With respect to membership, MIT envisions that the Volpe Community Center is first and foremost a Community Center for the Cambridge Community. MIT’s vision is that it will be a place for diverse groups of people to gather, recreate, and interact. Although all will be welcome, MIT’s focus for membership is on the East Cambridge, Wellington Harrington, and The Port neighborhoods as well as Kendall Square users and the Volpe community. The equity and inclusion workshops that were held in December 2020 through February 2021...
further solidified MIT’s vision of prioritizing diverse membership at the Center.

MIT committed to forming an advisory committee made up of a diverse group of representatives from the City government, residents in adjacent neighborhoods, and MIT to review and make recommendations concerning the design, programming, and fundraising for the community space. MIT will most likely hire a professional management company to operate the facility. MIT will ensure that the goals and the principles that the community came up with during the equity workshops are tied to whoever operates it.

Although MIT is still in the process of developing the complete operational and membership plan for the Community Center, it is committed to ensuring that approximately 50% of the participants will pay a reduced fee or will use the Center for free. MIT will seek input and advice from the advisory committee to determine who will be able to participate free or at a reduced rate.

As stated above, MIT’s commitment in the zoning is to fund an endowment for the Community Center in the amount of $3.5 million. MIT’s research and input from the equity and inclusion workshops demonstrated that this amount may be insufficient to achieve the diversity and equity goals MIT has for the membership. Therefore, MIT will commit to increase the amount of the initial operating endowment to $10 million.

b. Community Engagement

During the PUD-7 zoning process, MIT held dozens of meetings with neighborhood groups, residents, abutters, City Councillors, business groups, and other interested parties. In developing an initial vision for the Project, MIT worked with the community, City staff, the Volpe Working Group, and the Co-Chairs of the City Council Ordinance Committee to develop planning principles, design principles, and design guidelines. That process – which defined what is most important about this development – resulted in four redevelopment options. Each option included four research/office buildings and four residential buildings as well as a Community Center and 2.5 acres of Publicly-Beneficial Open Space.

MIT intends to build on its experiences with the Kendall Square Initiative to identify and implement uses that create and promote a sense of community among residents and employees of the Project and surrounding area, to provide a welcoming and inviting environment to all, and to include amenities and programming that catalyze synergies and collaboration at the Project and beyond. To accomplish these outcomes and the Project’s goals of belonging, inclusion and activation, MIT will encourage and promote community member involvement in meaningful ways to hear their thoughts, concerns, aspirations and ideas and then work to convert that input into executable outcomes for the Project.
Prior to the February 3, 2021 filing of the Development Proposal for this Project, MIT held a well-attended community meeting on October 21, 2020, met with the East Cambridge Planning Team ("ECPT") on October 28, 2020, provided notice to the Cambridge City Council on November 2, 2020, met with the Cambridge Redevelopment Authority ("CRA") on October 23, 2020 and presented to a Joint Meeting of the Bicycle, Pedestrian and Transit Committees on November 18, 2020.

Immediately following the public meeting presenting the Volpe Master Plan, MIT met with several of the condominium owners at 303 Third Street to hear their thoughts and concerns related to the Master Plan. Their concerns with the Master Plan focused primarily on the location and height of the R1 residential building, the location of the open space proposed at Third Street and Broadway, and the location and height of the Community Center, all relating to the impact on their individual units across Potter Street. Additionally, MIT met with Equity Residential, the owner of the 303 and 385 Third Street rental apartment units, to hear their opinions and concerns with the Master Plan.

After these discussions, MIT met again with the 303 Third Street owners to confirm that many of their concerns could be substantially addressed. The owners unanimously expressed interest in the proposal to reduce upper floors, relocate residential GFA from R-1, and locate the community center within R-1. While some owners had lingering questions, it was clear this plan should be forwarded to the Planning Board to replace the original proposal.

On April 6, 2021, MIT presented the revised Project to the Planning Board which approved the Planned Unit Development Proposal and issued a Preliminary Determination. Since that time, MIT has continued to meet with neighbors and City agencies and has adjusted the plan as a result of these conversations and input received from the Planning Board.

In addition to its typical comprehensive community process, MIT ran an unprecedented equity and inclusion engagement process. The process ultimately engaged over 450 individuals from diverse demographic backgrounds on key topics areas. Equity and inclusion consultant Roosevelt Smith was hired to bring objective and critical thinking to the process. The workshops included:

- **Housing Equity**: Housing experts and inclusionary housing tenants made specific recommendations to overcome barriers to inclusionary housing including unreasonable credit requirements. Feedback was also offered regarding equitable management practices and the treatment of inclusionary tenants, including access to services.
• **Retail Equity:** Local and minority retailers gave specific feedback on breaking down barriers to entry in large developments. This included cost, technical assistance, and establishing a direct relationship with the landlord. In addition to including minority and women-owned businesses as part of its existing local and independent requirements, MIT agreed to create an active database, and help address cost and technical support.

• **Creating an Equitable Community Center:** A vibrant workshop on the Community Center focused on dynamic programming that would engage a diverse set of users. Flexible space and career and employment services were stressed, and a general theme of nimbleness, inclusivity and demographic diversity came through. A second workshop with local non-profit leaders addressed potential synergies with other programs and the importance of avoiding duplication of service.

• **Employment Equity:** Bridging the economic divide was the major theme of this workshop. The Job Connector was recognized as critical infrastructure in terms of connecting under-employed residents to jobs of all kinds. Mentoring, job preparedness, training, and partnerships with companies were all highlighted.

• **Equitable and Inclusive Open Spaces:** This workshop resulted in reinforced themes similar to the Community Center input such as providing diverse open spaces that can serve a variety of demographics. Music, flexibility, coordination with retail, some active some passive, were all themes. In general, there was confidence in MIT’s ability to use proposed spaces to program diverse inclusive open spaces.

• **Youth Engagement:** MIT hosted a separate and integrated youth engagement process to support its equity and inclusion efforts. A large diverse group of young people from adjacent neighborhoods participated in the Community Center and open space workshops, and independently in a workshop dedicated for youth. As a result, youth voices were incorporated into all of our recommendations.

c. **Changes to the Project Proposal**

As a result of continued community workshops, input from the Planning Board and conversations with City staff, the proposed Project has continued to evolve between the time of the initial Special Permit Application and this Final Development Plan. Significant changes include:
1. **Increased size of Third Street Park:** As a result of feedback from the Planning Board members, the Building C1 footprint has been reduced in size and has been shifted west. This results in an overall shift by 20 feet and an increase in the size of Third Street Park to approximately one acre as shown in Volume 2, Figure A8: Site Development Plan - Open Space.

2. **Realigned Fifth Street:** In response to concerns about the visual presence of 303 Third Street’s electrical equipment at the corner of Fifth Street and Potter Street, MIT has shifted Fifth Street between Potter Street and Broadway 13 feet west which creates better alignment with Fifth Street north of Potter Street and less focus on 303 Third Street’s electrical equipment as shown in Volume 2, Figure A6: Adjustment to Fifth Street.

3. **Community Center Relocation:** In response to CDD’s suggestions that the Community Center have a more prominent presence on Third Street Park, and general interest in enhanced open space, MIT relocated the Community Center to the base of residential building R1. This move gives the Community Center significant prominence along and visibility from both the Third Street Park and a new Community Center Park as shown in Volume 2, Figure A8: Site Development Plan - Open Space. This location is at the heart of the project which will enhance its role as a place for mixing and gathering.

4. **Community Center Park:** Locating the Community Center into the base of Building R1 allows for the expansion of Community Center Park to more than half an acre, as shown in Volume 2, Figure E6: Third Street Park, Community Center Park, and Broad Canal Way Conceptual Programming. This expansion will enable a wider range of community centered activity and programming in the Park.

5. **Height Variety Along Broadway:** The increase in the area of Third Street Park is a result of reducing the footprint size of C1. This square footage will be recovered in either C2 or C3 by increasing their height up to 280 feet, provided that the GFA on the floors above 250 feet (excluding space for mechanicals and other areas that are not counted in GFA for zoning purposes) do not exceed 15,000 square feet. This strategy will contribute to a more differentiated massing along Broadway as shown in Volume 2, Figure B2: Broadway Massing Variations.

6. **R1 Massing:** The massing of Building R1 has been reduced by approximately 25% to create a narrow tower in the north south direction,
preserving views for the permanent residents of 303 Third Street who are located at the southwest and southeast corners of 303 Third Street as shown in Volume 2, Figure B5: Conceptual Project Heights and Figure B6: Context Building Heights.

7. Height Variety of Residential Buildings: The Planning Board has advocated for at least one residential building with a prominent height at the site. The massing modifications at Building R1 has resulted in a decrease in square footage at R1 that will be recaptured in R2 and R3. This results in residential buildings that are up to 250’, 300’ and 456’ as shown in Volume 2, Figure B5: Conceptual Project Heights and Figure B6: Context Building Heights.

8. Vehicular Parking Space Reduction: MIT has worked with the City to reduce the number of total vehicular parking spaces on the site by 6% (117 spaces) to 1,759 parking spaces.

9. Reduced Street Parking: MIT has significantly reduced the number of potential short term, on street parking/active curb/loading spaces with the proposed plan showing potential locations for only 27 such spaces, a large decrease from the 75 spaces originally proposed. Although some of this live parking is necessary to support Community Center drop off, handicapped accessible parking and food pick/up deliveries, MIT has removed it completely from the south side of Broad Canal Way adjacent to Third Street Park (in Volume 2, Figure D12: Vehicular Plan - Curb Utilization).

10. Cycle Tracks: MIT has worked with the City to identify locations for and commit to cycle tracks on Potter Street and Fifth Street as shown in Volume 2, Figures D13, D14 and D19. Cycle track improvements to the east side of Fifth Street are subject to construction and permanent easements, as necessary, between MIT and, with regard to portions of Fifth Street that immediately abuts 303 Third Street, the owners of the 303 Third Street Condominium.²

11. Advanced Park Design: During the public process the community, Planning Board and City staff have expressed an interest in better understanding MIT’s vision for the design, programming and activation of the parks. MIT has advanced park design and conceptual programming, including the differences in character between the parks, as shown in Volume 2, Section E.

12. Commitment to Embedded Carbon: In addition to committing to offset the entirety of the Volpe development’s remaining operational carbon emissions annually, MIT has made a commitment to offset all remaining embodied carbon from construction of the development.

² While MIT intends to construct one-way cycle tracks on each side of Fifth Street, its ability to do so in the segment between Potter Street and Munroe Street will depend on being to obtain rights from the owners of 303 Third Street as 303 Third Street owns to the centerline of Fifth Street in this location. MIT will undertake commercially reasonable efforts to obtain such rights, but if it is unsuccessful in obtaining such rights, MIT will coordinate modifications to the cycle tracks on Fifth Street with Cambridge DPW and will file the modified plan agreed to by MIT and DPW with the Planning Board as an update to the Final Development Plan, which modification shall be deemed part of the Final Development Plan without the need for any action by the Planning Board with regard to the same.
The mixed-use project will include eight buildings with uses as follows:

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</tr>
<tr>
<td>Total SF</td>
<td>1,128,000</td>
<td>1,756,913</td>
<td>125,000</td>
<td>3,009,913</td>
</tr>
</tbody>
</table>

Exempt Innovation (83,663)

Exempt Retail/Active (81,250)

Exempt Community (25,000)

Total GFA 1,128,000 1,673,250 18,750 2,820,000
Connectivity and Active Streets

The Project is designed to replace the existing layout of the Government Owned Lot, which isolates the Development Parcel, with a layout that will reconnect it to the surrounding neighborhoods. By reconnecting to the East Cambridge community, the Project has the potential to become a unique cultural district centered around arts, innovation, and community. Important to this effort is the establishment of new streets and pedestrian corridors that will knit Kendall Square to the surrounding neighborhoods as follows:

- **Fifth Street (Extension)** will reestablish a neighborhood connection between Binney Street and Broadway and provide additional connection to Kendall Center and the Kendall Square MBTA Red Line headhouses. Fifth Street will be characterized by the Art Lawn being constructed by the Federal Government, the new Community Center Park proposed by the Volpe project and active ground floor uses including restaurants and retail. The plan includes separated one-way cycle tracks on each side of Fifth Street between Binney Street and Broadway.

- **Broad Canal Way (Extension):** MIT has continued to work with staff to frame the importance of Broad Canal Way as a driver to the western edge of the site plan by using the Entertainment Venue and retail as magnets. Recognizing the importance of a highly visible Entertainment Venue at the west end of Broad Canal Way, staff have suggested ways to provide better architectural articulation of the venue while enhancing the pedestrian and bicycle connection to Loughrey Way. These will be incorporated into the Design Guidelines and addressed during the Design Review process. Broad Canal Way will be a pedestrian-scaled street at the center of the Project that serves to connect to and bring the existing activity along Broad Canal Way located east of Third Street into and through the Project Site to connect to the Loughrey Walkway and Kittie Knox Bike path to the west. Broad Canal Way is envisioned to be a curbless street that utilizes high quality streetscape materials, textures and signage to guide pedestrians, bicycles and limited vehicles along the way. It is a street akin to what we might find in classic European communities where pedestrians and bicycles are given priority, easily able to cross from side to side as they make their way to local retailers lining each side. This is a welcoming, social street, full of vibrancy and bustling with activity. An Entertainment Venue will be prominently located at the west end of the street, a visual anchor that acts as a magnet to draw people from all directions.
• **Kendall Way:** Kendall Way will be a shared street that prioritizes cyclist and pedestrian activity and allows for managed building service access, without looking like a conventional street. It will be designed to ensure bicyclist and pedestrian safety at all times, but this space is imagined to be a curbless, continuously paved space that can be closed to vehicle traffic and enlivened by programmed events related to the Entertainment Venue or other active uses. Special lighting and temporary staging would make this space very engaging for evening activities. Kendall Way allows for pedestrian and bicycle connection between Potter Street and Broadway, which service vehicles can only access from Broadway (to access Buildings C2 and C3) or from Potter Street (to access Buildings R2 and R3) (without a through connection).

• **Potter Street:** The Project will extend Potter Street from Fifth Street to the Loughrey Walkway/Kittie Knox Bike Way. City staff has expressed the importance of this connection in pedestrian and bicycle networks of East Cambridge and the applicant has worked with the City to propose a cycle track along this street.

**Public Parks**

The Project will provide four new parks designed with a range of seating conditions and amenities to encourage people to gather with friends and colleagues, in both large and small groups, with both sun and shade alternatives. It will be a place for daily uses such as hanging out and eating as well as for larger festivals and celebrations. The Project will include over 3.5 acres (approximately 152,460 square feet) of Publicly-Beneficial Open Space, an approximately 32% increase over the 2.66 acres required by zoning, where the community can gather, relax and recreate.

In response to comments from the Planning Board, MIT has expanded the footprint of the Third Street Park and has advanced concepts for activation for all four parks as described in Volume II of this filing:

• **Third Street Park:** The Project’s largest and most visible addition to the public realm is located at the corner of Third Street and Broadway—which, along with its connection to Main Street, makes it one of the City’s most important confluences. It is directly related to the existing Kendall Square plaza and also incorporates the extension of Broad Canal Way, already a successful pedestrian-centric street to the east of Third Street. There is a strong focus on the connection from the corner...
towards the proposed Community Center Park and then on to Fifth Street. Overall, this approximately one-acre space offers the best opportunity for Kendall Square to have a sizable civic space. This space offers an opportunity for public events of significant size, including markets, festivals, celebrations, and other community activities that can be enjoyed by all Cambridge residents and visitors.

Third Street Park will contain large lawns, paved gathering spaces, and comfortable shaded areas beneath existing mature trees and newly planted species. Retail pavilions for local, active and innovative food and beverage will be located along Broad Canal Way. Because the new park is framed in part by existing public streets already heavily used by commuters and neighbors, it will be welcoming and inclusive for all. These qualities put the heart of the “Square” in Kendall Square and creates a grand entrance into the balance of the Site.

- **Sixth Street Park:** In its existing condition, the Loughrey Walkway and the Kittie Knox Bike Path provide a vital connection from East Cambridge to the Charles River and for those commuting by foot or bicycle for the so-called “last mile” stretch between home and public transit. Although the applicable zoning regulations require a ten-foot offset from the easterly property line of the Loughrey Walkway as a protective measure for the existing mature oak trees, the proposed Sixth Street Park substantially expands the tree protection offset from the existing walkway. A variety of community recreation spaces and active areas may be included in the expanded tree protection offset area. While details for this space will be finalized as part of the Design Review Process, this open space could support a dog park, 3-on-3 basketball court, playground, exercise space, and outdoor dining related to the proposed Entertainment Venue. The park connects with Broad Canal Way to the east via a wide pedestrian and bicycle passage adjacent to the Entertainment Venue.

- **Community Center Park:** This park will be adjacent to the Community Center and will provide space for related activities including recreation for seniors, outdoor classroom activities, and flexible space for entertainments and games. Its location diagonally across Broad Canal Way from the Third Street Park will enable the two spaces to work together for larger community events. Since the Special Permit Application, this park has grown to approximately one-half acre due to the relocation of the Community Center into the base of residential building R1, enabling it...
to take on a much more significant role in the open space network and activation associated with the Community Center.

- **Binney Street Pocket Park:** Located between Binney Street and Munroe Street, this park will host shared community amenities and a protected tot lot for families and neighbors, as well as short-term bicycle parking facilities.

**Community Center**

The approximately 25,000 SF Community Center will be located in residential building R1 and will be an inclusive and welcoming space for all employees and residents of the Project as well as the surrounding community. The Community Center’s proposed location and conceptual design were chosen to encourage these different groups to interact, play, exercise, learn and come together in one place. It is MIT’s hope that this environment will create a cohesive community by fostering chance encounters and collaboration across user groups. Programming for the Community Center will include both indoor and outdoor activities.

The new location of the Community Center responds to City staff interest in enhancing the Center’s presence along Third Street Park. MIT has held two workshops focused specifically on the Community Center as described above. MIT will continue to engage the local community and the City on details for the design and programming to ensure that the Community Center includes flexible spaces that not only meets the needs of the community, but also enhance the City and the neighborhood in a meaningful way that promotes a more integrated and equitable community.

**Retail and Ground Floor Activation**

Leveraging Kendall Square’s identity as the global gold-standard “innovation district” to attract both local independent and global retailers, the ground floor activation plan will integrate the best of Cambridge with the best of the wider world. The retail and ground floor activation plan also includes the installation of neighborhood amenities to expand on the grocery store (i.e. Brothers Market) and pharmacy (i.e. CVS) provided through MIT’s Kendall Square Initiative, with the following principles and strategies in mind.

- Ground-floor uses will reflect elements that celebrate the historic themes of Kendall Square and MIT: Innovation, open sourcing, dynamism and evolution.
- Uses will include amenities that support the East Cambridge residential community and are missing or underrepresented today.
- The retail strategy will build upon MIT’s track record of partnering with local, independent retail and restaurant operators by lowering
the economic barriers to entry to create a place of belonging and equity. The community workshops described above have been beneficial to MIT in identifying tactics to inform this strategy.

- Ground floor spaces will be deliberately marketed using strategies that attract and cultivate cutting-edge retail and food and beverage establishments that embrace the newest technologies and invent new concepts.

- Retail and ground floor spaces will all be built with second and third generation uses in mind, weaved into merchandizing plans for short- and long-term lease/license terms that encourage experimentation and innovation.

**Entertainment**

The Project will be a place where innovation and the arts are integrated with live music, art installations, and participatory performance.

- An Entertainment Venue located at the west end of Broad Canal Way and along Loughrey Walkway will anchor the Project and be a magnet from Third Street (along Broad Canal Way) and Broadway and Binney Streets (along the Loughrey Walkway). It will include approximately 600 seats or 1,200 people (if standing room only.) The facility will be designed to include advanced lighting and technology in order to support traditional, cutting-edge and experimental live music performances as well as community events and private events.

- Space for tech-based entertainment/retail hybrids could be accommodated along Broad Canal Way where smaller events, exhibits and installations that highlight or are supported by advances in technology can be showcased and experienced. These may include collaborations with the MIT Media Lab, virtual reality/augmented reality games and activities, a maker gallery, technology-based events and lectures, and pop-up exhibits.

**Living Lab for Future Transportation Technology**

MIT is a leader in transportation technology and innovation and will use the Project to showcase the future of mobility and transportation. The Project plans to accommodate the latest and future innovations in mobility and transportation, including without limitations:

- Bicycle and automobile smart parking technology;
- Digital transit information screens and wayfinding;
- Vehicle electrification;
• Last-Mile Transportation (autonomous deliveries, autonomous shuttles, drones, bike share, and on-demand mobility); and

• Innovations in infrastructure (digital curbs, dynamic crosswalks and enhanced crosswalks).

Transportation technology and innovation is at the forefront of reducing reliance on personal vehicles, encouraging the use of public transportation, and enhancing the pedestrian and bicyclist experience. Anticipating a decline in privately-owned personal vehicle use in the future, the Project’s garages will be designed with flat floors and structural column grids that allow for conversion to other uses.

Leader in Sustainability

Sustainability is a foundational component of the Project. MIT intends for the Project’s design to be an example of how to successfully implement sustainability principles.

There are several key strategies that establish the Project as an exemplar of sustainable Master Plan design. First, as currently designed, the Project includes a large urban district-scale blackwater treatment plant to reuse all eligible building water on-site. Additionally, MIT intends for the residential buildings (40% of the Project’s GFA and approximately 1,400 units) to be all-electric, and therefore, will have zero on-site emissions to support a net-zero carbon future. The Project also establishes a pathway for getting to all-electric commercial buildings and will evaluate each building against this pathway as it approaches the Design Review phase.

Alongside on-site renewables such as PV, MIT is committed to transition to a carbon-neutral investment portfolio and will offset the entirety of the Volpe development’s remaining operational carbon emissions annually. In addition, MIT will offset all remaining embodied carbon from construction of the development.

Among other sustainability design elements, all buildings will be LEED Gold certified. In addition to sustainability design elements, the Project includes resiliency design elements such as raising the finished grade of the entire 10-acre Site to the 2070 100-year flood elevation.

Together, these exemplary strategies distinguish the Project from regional peers and build upon sustainable commitments for site, transit, resiliency and healthy building design.

Mixed-Income Residential Community of Approximately 1,400 Units

At least 40% of the GFA included in the Project, roughly 1.1 MSF, is devoted to residential use. This equates to approximately 1,400 units of new housing located throughout the four residential
buildings. Twenty percent (20%) of the net residential unit square footage of each building will be designated as affordable. The Project also includes 20 middle-income units that will be affordable to eligible renters with incomes of 80% to 120% of the Area Median Income. The Project will include three-bedroom units to encourage families to live in the District. In addition, 5% of the net residential unit square footage is devoted to Innovation Units, defined as 350 to 450 SF, to further assist with affordability and the diversity of housing options on the Site. MIT will work with the City’s Housing Division to determine the distribution of inclusionary housing, middle-income, and Innovation Units.

MIT is committed to the creation of a residential community that is diverse in many ways. The Project’s design and programing of the open space, retail and the Community Center are intended to appeal to a people of all ages, races, genders, and family structures that reflects Cambridge’s wide diversity.

E. Public Benefits and Project Commitments

In addition to the Project-related benefits of new pedestrian, bicycle and vehicular connections, over 3.5 acres of Publicly-Beneficial Open Space, approximately 1,400 units of housing and the Community Center that are outlined above, MIT will make the following financial commitments through the life of the Project pursuant to the requirements of the CZO:

- Approximately $36 million to the Affordable Housing Trust for commercial linkage payments;
- Approximately $8.5 million for transit improvements to reduce vehicular traffic;
- Approximately $8.5 million to the Community Fund to be distributed to Cambridge non-profit organizations; and
- In addition, the Project is anticipated to generate approximately $23 million in new taxes annually once the Project is fully built out.

At the time of the adoption of PUD-7, MIT made significant commitments to improving transportation, housing and equity in Cambridge. MIT has advanced many of these commitments and is including the following as part of the Project:

- Grand Junction Multiuse Path: On November 6, 2017, shortly following the passage of PUD-7 zoning, MIT contributed $500,000 toward the development of design of the Grand Junction Path. The City (through CDD) commenced design work on the path in January 2019, has advanced through the concept design phase
and at the end of December 2020 released 25% design drawings for review. MIT has been working with the City and the City’s design consultant on comments to the 25% design drawings. MIT prepared a draft easement agreement to preserve public access permanently to the portions of the pathway located on MIT’s land. In September 2019, MIT submitted this draft easement agreement to the City Solicitor for review and is awaiting review and comment. Within thirty (30) days of the completion of the design of the Grand Junction Path and the City’s receipt of all rights, consents and/or approvals necessary to construct the Grand Junction Path, MIT will, at MIT’s option, either (i) deliver to the City $8.0 million for the design and construction of the Grand Junction Path, or (ii) commence construction of the portion of the Grand Junction Path located on the MIT Property and diligently pursue such construction to completion.

- **Community Space:** This Project includes a proposal for a Community Center. MIT will form a Community Space Advisory Committee to review and make recommendations to MIT concerning the design and programming of the Community Space. Per the zoning commitment, MIT deposited $500,000 into escrow in October 2018. MIT will pay additional amounts, as needed from time-to-time, totaling up to $500,000 in the aggregate for planning and design costs, and MIT will provide an amount equal to $22,000,000, less the cost of any planning and design costs paid in connection with the community space, on or before the date that MIT (or its nominee) acquires title to the majority of the PUD-7 District.

- **Graduate Student Housing:** MIT has completed the construction of Building 4 of MIT’s South of Main Project in Kendall Square containing over 450 furnished studio, one-bedroom, and two-bedroom units (253 net new apartments) and MIT graduate students began living in the building in November 2020. MIT is in the midst of a Project Review Special Permit process with the Planning Board to create approximately 690 graduate student housing beds on the West Campus. In addition, MIT converted 150 beds to graduate student use, the majority being in the housing at 70 Amherst Street.

- **Job Connector:** In April 2019, MIT opened the Job Connector at 792 Main Street in The Port neighborhood. The Job Connector is a free workforce development hub that connects Cambridge residents with job readiness and training programs that promote access to the City’s innovation economy. The Job Connector has hosted six programs, organized two job
fairs, and participated in over 350 interactions with 275 clients since its inception. Through collaborations with local partners, the Job Connector hosted an apprenticeship training program with Building Pathways, an IT skills training course with Just-A-Start, organized a three-part unemployment webinar with the City of Cambridge’s Department of Human Service Programs, and ran career programs for Homeowners’ Rehab Inc. and the Margaret Fuller Neighborhood House. A five-week career pathways program for 18-26-year old residents was organized for two different cohorts in partnership with My Brother’s Keeper, and several other initiatives are in planning. MIT has provided funding well in excess of the $125,000 required annually.

- **Middle Income:** The Project includes 20 middle-income units restricted to eligible households earning between 80% and 120% of Area Median Income.

- **Innovation Housing:** The Project includes a provision that 5% of the net floor area of the minimum required housing will be Residential Innovation Housing Units, which will be 350 to 450 SF in size and will include a covenant that the tenants of 30 of these units will not apply for a Cambridge Resident Parking Permit.

- **Open Space and Retail Advisory Committee:** MIT will establish an advisory committee to provide input on the programming of activities in the open spaces and the types of retailers for the retail spaces in PUD-7. This advisory committee is not required to be formed until six months prior to substantial completion of the first building. However, MIT intends to officially form the Committee during the design of the first building or open space. Prior to forming the Committee officially, MIT will seek input from a wide cross-section of community members through its public process associated with the Final Development Plan Special Permit.

- **Community Event Programming:** In 2017, MIT began hosting the Volpe Block Party as a fun, annual community engagement event. The event has successfully brought together more than 1,000 people to listen to live music, engage in family-friendly activities and enjoy food from local Cambridge restaurants—all for free. In 2020, due to public health concerns, the Volpe Block Party pivoted to a primarily virtual event, however the tradition of handing out free ice cream to all attendees continued in a COVID-safe way at various Cambridge parks and community centers. The Volpe Block Party will continue on an annual basis as a fun way for MIT to engage with the community. It has and will continue to include
local and minority vendors and is on track to spend in excess of the $300,000 required in the Commitment Letter before MIT acquires the Development Parcel.

• **Real Estate Taxes:** Except for the portion of R1 containing the Community Center, it is anticipated that all of the buildings proposed in the Project will be taxable, resulting in approximately $23 million in new annual tax revenue for the City.

• **Innovation Arts Program:** MIT will establish an arts program that includes outdoor exhibits and recognizes innovation and entrepreneurship in the Kendall Square area. This arts program will be established within 30 days after the first Permanent Certificate of Occupancy is issued for a commercial building in the PUD-7 District. In the meantime, MIT will seek to incorporate the arts program into its planning of open and public spaces.

In addition to the above commitments and those embedded into the Project design, MIT has also committed to many transportation mitigation items as described in Volume 2, Section 1J. Transportation Plan of this Final Development Plan.

F. **Development Schedule and Phasing**

MIT expects to construct the Project over a 10- to 20-year period. The Final Development Plan is divided into the following three (3) phases:

• **Phase 1:** Phase 1 consists of Buildings C1, C2 and R1 (including the square footage of the Community Center).

• **Phase 2:** Phase 2 shall be comprised of Buildings C3, and R3.

• **Phase 3:** Phase 3 shall be comprised of Buildings C4, R4 and R2.

No building permit may be issued for building construction in either of Phases 2 or 3 until all building and associated facilities are under construction in Phase 1, and the commencement of substantial construction activity for R1 in Phase 1 shall be deemed to be a significant portion of the required residential GFA within the Final Development Plan. No Occupancy Permit may be issued for any building in either of Phases 2 or 3 until an Occupancy Permit for shell and core has been issued for all buildings in Phase 1 and all associated improvements in Phase 1 have been completed, except as provided below.

Phases 2 and 3 may be completed at any time after all buildings and associated facilities are under construction in Phase 1, including simultaneously, provided, however, that MIT shall not be entitled...
to obtain a Certificate of Occupancy for the last non-residential building (not including stand-alone retail kiosks) until it has commenced construction of any and all residential square footages required under 13.93.1(c)(1) of the Cambridge Zoning Ordinance.

Each Phase shall consist of the buildings, Publicly Beneficial Open Space (including, without limitation, any Permanently Guaranteed Open Space situated therein), streets, utilities, and other physical improvements set forth in the Final Development Plan (as the same may be amended, and in the Design Review process) as being located on or immediately adjacent to and serving the Building Site upon which the particular Phase is being constructed. The issuance of a Certificate of Occupancy for a specific Building shall be subject to the completion of the Publicly Beneficial Open Space (including, without limitation, any Permanently Guaranteed Open Space), public improvements and mitigation associated with such Building, as specifically set forth in the Planning Board Decision on this Final Development Plan, with the exception that the delivery of improvements that may be disrupted during the construction of a future Phase of the development may be delayed until the completion of that future Phase of the Project, subject to written approval of the proposed interim condition by CDD and any other applicable City Department.

Construction of accessory parking facilities may precede the establishment of the uses that are served by such parking facilities, provided, however, that at no point in time shall the number of available accessory parking spaces exceed the maximum number authorized by the uses completed and occupied at that time. Wherever parking spaces have been constructed in excess of the number of spaces allowed for the authorized uses occupied at that time, such excess spaces shall be made physically inaccessible to users in a manner approved by TP&T.

The Project was conceived in a manner such that the build-out of one phase can limit interdependencies on other phases, and will satisfy all parking, infrastructure, stormwater management, and blackwater removal requirements on a phase-by-phase basis. MIT will work in a transparent manner to mitigate any possible impacts from necessary temporary conditions that arise given the scale and complexity of the interconnected systems. The phasing of all buildings will comply with Section 13.93.1(c)(3) of the Cambridge Zoning Ordinance to ensure delivery of housing units prior to the completion of the commercial buildings.

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3 For the purposes of this Application, unless otherwise specified herein, the term “Section” shall be deemed to refer to a specific section of the City of Cambridge Zoning Ordinance (the “CZO”).
6. Future Ownership and Financing Plan

Present and Future Ownership and Leasing

As referenced above, the GSA currently owns the Site, and MIT has the right to acquire the Development Parcel pursuant to an Exchange Agreement between the parties. Once acquired, MIT intends to develop the Project and hold ownership interest of the same for the long term, whether directly or through affiliates and subsidiaries and with or without the use of long-term ground leases, while leasing (whether by ground lease or space lease) significant portions of the space to third-party users and occupants.

Financing Plan

To date, MIT has funded all predevelopment costs. Predevelopment costs include the entitlement process, Master Planning, architectural, engineering, marketing and administrative expenditures.

MIT plans to develop the Project in phases according to market conditions and may fund project construction through a combination of equity, debt, construction financing, infrastructure financing, and joint venture capital. MIT intends to fund the construction costs on a phase-by-phase basis.

MIT may place construction and/or permanent financing on each building as necessary.

The total project costs, including predevelopment and construction, is estimated to be $3.6 billion.
Figure 1: Locus
Figure 2: Historical Image of Site - 1960s Construction of Volpe National Transportation Systems Center
Figure 3: Third Street Park

Visualization by Design Distill
Figure 4: Sixth Street Park
Figure 5: Community Center
Figure 6: Broad Canal Way
Figure 7: Entertainment Venue
Figure 8: Fifth Street
Figure 9: Potter Street

Visualization by Interface Multimedia
Figure 10: Broadway
Figure 11: Binney Street
3. CONSISTENCY WITH SPECIFIC SPECIAL PERMIT ZONING CRITERIA
A. Compliance with General Special Permit Criteria (Section 10.43)

Special permits will normally be granted where specific provisions of the CZO are met, except when particulars of the location or use, not generally true of the district or of the uses permitted in it, would cause granting of such permit to be to the detriment of the public interest because:

(a) It appears that requirements of this Ordinance cannot or will not be met, or

The Project described in this Final Development Plan and for which the Special Permit is sought is designed to meet all the requirements of the CZO. This Section demonstrates compliance with the CZO, particularly with respect to Section 10.43 General Special Permit Criteria, Section 12.35.3 General PUD Development Proposal Criteria, Section 13.91.4 PUD-7 Special Permit Criteria and Section 19.25 Article 19 Project Review Special Permit Criteria.

(b) Traffic generated or patterns of access or egress would cause congestion, hazard, or substantial change in established neighborhood character, or

MIT has prepared, and the City has certified, a detailed Transportation Impact Study ("TIS") that addresses issues of traffic generation and patterns. Generally, the trip generation and traffic patterns associated with the Project are consistent with those assumed as part of the planning and rezoning for the Kendall Square area, and they will not cause additional congestion, hazard or substantial change in the established neighborhood character.

(c) The continued operation of or the development of adjacent uses as permitted in the Zoning Ordinance would be adversely affected by the nature of the proposed use, or

The continued operation of or future development of adjacent uses as permitted in the CZO will not be adversely impacted by the nature of the proposed uses included as part of the Project.

The Project’s proposed mix of residential, commercial, retail, active and entertainment uses is consistent with the existing and planned uses in the Kendall Square area and the Project proposes to add vitality to the neighborhood and streetscape and improve connections to and between these uses.

In an effort to be consistent with the existing and planned uses in Kendall Square and improve connectivity, certain uses included in the Project are located immediately adjacent to similar existing uses. For example, the adjacent uses to the east include two residential buildings at 303 Third Street and 350 Third Street. The Project
has located residential uses nearest to these two buildings in order to strengthen the area as a residential district. Immediately to the west and south is the “MXD District”, which is characterized by high-density commercial buildings. To integrate with the existing built environment and development patterns, Building R1 is located along the existing commercial corridor of Third Street that includes buildings of varying heights, including some that are very tall. Third Street Park will be located at the corner of Third Street and Broadway and will be a significant new public open space for the residents of 303 Third Street and 350 Third Street, as well as residents from the neighborhoods of Cambridge, to enjoy. The Project has located its high-density commercial buildings along Broadway as an extension of the existing uses in the MXD District. To the north is existing commercial development along Binney Street with the East Cambridge residential neighborhood beyond. Along Binney Street, the Project locates one mixed-use commercial building, of size and scale consistent with others along the corridor, and one residential building to reflect the transitional nature of this street.

The Project also includes a significant street and open space network that is designed to support and enhance the operation of adjacent uses by providing improved pedestrian and vehicle access. The Project is designed to replace the existing layout of the Volpe National Transportation Systems Center, which isolates the Site from the surrounding neighborhoods, with a layout that will reconnect it to the surrounding areas. By reconnecting with the East Cambridge community, the Project has the potential to become a unique cultural district centered around arts, innovation, and community.

The Project’s proposed streetway, pedestrian, and open space networks will build new connections and enhance existing connections among the neighborhoods of East Cambridge, Wellington-Harrington, The Port, MIT and Kendall Square. These networks also maximize the integration of pedestrians, cyclists, workers, residents and neighbors within these neighborhoods, and will create a more understandable and accessible district for visitors.

(d) Nuisance or hazard would be created to the detriment of the health, safety and/or welfare of the occupant of the proposed use or the citizens of the City, or

The Project will not create a nuisance or hazard to the detriment of the health, safety and/or welfare of the occupants of the proposed uses within the Project or the citizens of the City. Rather, the Project will enhance the experience of all. The Project will feature a Community Center at its heart that will be a location for recreation
and other types of programming and activities for Cambridge residents. Also, the additional residents, employees, workers and visitors to the Project will activate the retail and commercial uses in both the Project as well as existing retail in Kendall Square and along Third Street.

The open space located throughout the Project will provide gathering spaces for users of the Project as well as the community at-large. The retail spaces, restaurants, Entertainment Venue and other publicly-accessible spaces located on the first floors of the new buildings will be an amenity to the users of the Project and members of the community and will further activate the open space.

(e) For other reasons, the proposed use would impair the integrity of the district or adjoining district, or otherwise derogate from the intent and purpose of this Ordinance, and

The Project will not impair the integrity of the district or any adjoining district, or otherwise derogate from the intent of the CZO.

The Project is located within the PUD-7 Overlay District. Its proposed mix of residential, commercial, retail, active and entertainment uses is consistent with the existing and planned uses in the district and adjoining districts. Immediate adjacent uses to the east include two residential buildings at 303 Third Street and 350 Third Street. The Project has located residential uses nearest to these two buildings in order to strengthen the area as a residential district. Immediately to the west and south is the “MXD District”, which is characterized by high-density commercial buildings. Building R1 is located along the commercial corridor of Third Street that includes buildings of varying heights including some that are very tall. The Project has located its high-density commercial buildings along Broadway as an extension of the existing uses in the MXD District. To the north is existing commercial development along Binney Street with the East Cambridge residential neighborhood beyond. Along Binney Street, the Project locates one mixed-use commercial building, of size and scale consistent with others along the corridor, and one residential building to reflect the transitional nature of this street.

(f) The new use or building construction is inconsistent with the Urban Design Objectives set forth in Section 19.30.

The Project is consistent with the Urban Design Objectives set forth in Section 19.30 as described in Volume I, Section 3[D] of this filing.

In addition, it should be noted that the Final Development Plan satisfies the requirements of Section 19.25 of the Ordinance, as well, as further addressed below in Subsection D.
B. Compliance with General PUD Development Proposal Criteria (12.35.3)

Approval of a Development Proposal shall be granted only upon determination of the Planning Board that the Development Proposal satisfies the criteria set forth in Section 12.35.3 of the CZO. As detailed below, the Project’s PUD-7 Development Proposal submitted herewith in Volume II complies with all such required criteria. The Project’s PUD-7 Development Proposal:

(a) Conforms with the General Development Controls set forth in Section 12.50, and the development controls set forth for the specific PUD district in which the project is located:

The Project complies with the General Development Controls set forth in Section 12.50, including minimum development parcel size. All new roadways, utilities/public works and open areas will be designed and constructed consistent with applicable laws and criteria established by the City, and all uses will conform to applicable federal, state and local laws and regulations regarding the environment.

(b) Conforms with adopted policy plans or development guidelines for the portion of the city in which the PUD district is located:

As described in detail in Volume I, Section 3 (C) of this filing, the Project will be generally consistent with the policy objectives set forth in the PUD-7 Guidelines and Principles.

(c) Provides benefits to the city which outweigh its adverse effects; in making this determination the Planning Board shall consider the following:

1. Quality of site design, including integration of a variety of land uses, building types, and densities; preservation of natural features; compatibility with adjacent land uses; provision and type of open space; provision of other amenities designed to benefit the general public:

The Project includes a significant street and open space network that is designed to support and enhance the operation of adjacent uses by providing improved pedestrian, cyclist and vehicle access. The Project is designed to replace the existing layout of the Volpe National Transportation Systems Center, which isolates the Site from the surrounding neighborhoods, with a layout that will reconnect it to the surrounding areas. By reconnecting with the East Cambridge community, the Project has the potential to become a unique cultural district centered around arts, innovation, and community.

The Project will include four new public parks. The Sixth Street Park will extend the pedestrian and bicyclist functions of the Loughrey Walkway/Kittie...
Knox Bike Path by creating a new linear park lined with recreational uses. Third Street Park will be located at the corner of Third Street and Broadway and will be a significant new public open space for the neighborhoods of Cambridge. The Community Center Park at the corner of Broad Canal Way and Fifth Street will extend the open space and extend the activities of the Community Center, a centrally located community benefit. The Binney Street Pocket Park will host shared community amenities and a protected tot lot for families and neighbors, as well as short-term bicycle parking.

The Project’s proposed mix of residential, commercial, retail, active and entertainment uses is consistent with the existing and planned uses in the Kendall Square area and the Project proposes to improve connections to and between these uses.

Consistent with the existing and planned uses in Kendall Square and in an effort to improve connectivity, certain uses included in the Project are located immediately adjacent to similar existing uses. For example, immediate adjacent uses to the east include two residential buildings at 303 Third Street and 350 Third Street. The Project has located residential uses nearest to these two buildings in order to strengthen the area as a residential district. Immediately to the west and south is the “MXD District”, which is characterized by high-density commercial buildings. Building R1 is located along the commercial corridor of Third Street that includes buildings of varying heights including some that are very tall. To the north is existing commercial development along Binney Street with the East Cambridge residential neighborhood beyond. Along Binney Street, the Project locates one mixed-use commercial building, of size and scale consistent with others along the corridor, and one residential building to reflect the transitional nature of this street. The Project has located its high-density commercial buildings along Broadway as an extension of the existing uses in the MXD District.

The Project’s proposed streetway, pedestrian, and open space networks will build new connections and enhance existing connections among the neighborhoods of East Cambridge, Wellington-Harrington, The Port, MIT and Kendall Square. These networks also maximize the integration of pedestrians, cyclists, workers, residents and neighbors within these neighborhoods, and will create a more understandable and accessible district for visitors.

2. Traffic flow and safety;

The proponent submitted a Traffic Impact Study ("TIS") to the City of Cambridge on October 22, 2020, that addresses issues of traffic flow and safety. The City of Cambridge certified the TIS on November 5, 2020. In addition, see Subsection D, below, which further addresses the Project’s impacts on traffic flow and safety.
3. Adequacy of utilities and other public works;
As detailed in Volume II, Section O, Infrastructure Plan, City utilities are generally adequate to support the Project. The Project will include sustainable measures, including district blackwater systems, which will reduce impact to the City’s water and sewer systems. Specific infrastructure improvements and services may be required to be undertaken by the Project in coordination with the City.

4. Impact on existing public facilities within the city; and
The Project will not have a significant impact on existing public facilities within the City. The proposed buildings will be constructed from newer materials and will meet the life/safety codes in effect at the time of building construction, including sprinkler systems and other life/safety enhancements as appropriate. There will be approximately 1,400 residential units which, consistent with City planning, will include a diversity of unit types and sizes. However, it is not anticipated that there will be a significant impact on the Cambridge Public Schools. As discussed further below, the Project will have a significant net positive fiscal impact that will be available to improve public facilities within the City, and the Project includes significant financial and other mitigation commitments that will have a net positive impact on existing public facilities within the City.

5. Potential fiscal impact
The Project is expected to have a significant positive fiscal impact on the City. The Project will create new, productive uses in Kendall Square/East Cambridge and will substantially increase the value of the commercial properties, thereby substantially increasing the taxable value of the properties to the City and the addition of approximately $23 million in net new tax revenue paid to the City annually. It is expected that construction of the Project will create approximately 8,000 construction jobs over its duration and approximately 4,500 new, permanent jobs in the City of Cambridge. Additionally, the new residential and commercial buildings and the uses therein will attract new workers and residents to Cambridge.

C. Compliance with PUD-7 Zoning and Special Permit Criteria (13.90 et seq.)
An approved Final Development Plan for a Master Plan area must satisfy the criteria set forth in Section 13.91.4 and must also otherwise comply with the requirements and limitations set forth in the PUD-7 Zoning. As detailed below, the Project complies with all such required Special Permit criteria as well as the PUD-7 Zoning.

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4 For the purposes hereof, references to the “PUD-7 Zoning” shall be a reference to Section 13.90 et seq.
Compliance with Special Permit Criteria (13.91.4)

As more specifically detailed below, the Project satisfies the Special Permit criteria set forth in Section 13.91.4:

1. Providing a mix of commercial, including research and technology, and residential uses, with particular emphasis on ground-floor retail along portions of Third Street and Broadway, to encourage activity throughout the day and evening.

Where the Site is currently an isolated parcel that is not open to public use or access, the Project will include a diverse mix of uses, including residential, lab and office, retail and community. While there will be a particular effort to activate Third Street and Broadway, the introduction of active ground floor uses, including retail, entertainment and Innovation Space, on multiple sides of each new building will energize each block and connect the Project to the surrounding neighborhood.

2. For residential uses, incorporating a diversity of dwelling unit sizes that are appealing and accessible to a variety of users, including families with children and households from a variety of socioeconomic backgrounds.

Housing will be a significant component of this Project. Pursuant to Section 13.93.1[b][i], forty percent (40%) of the total permitted GFA, or approximately 1 MSF, included in the Project will be devoted to residential use. This equates to approximately 1,400 units of new housing located throughout the four residential buildings. Twenty percent (20%) of the net residential unit square footage of each building will be designated as affordable. The Project also includes 20 middle-income units that will be affordable to eligible renters with incomes of 80% to 120% of the Area Median Income. The Project will include three-bedroom units to encourage families to live in the district. In addition, 5% of the net square footage of the net residential unit square footage is devoted to Innovation Units, defined as 350 to 450 SF, to further assist with affordability and diversity of housing on the Site. MIT will work with the City’s Housing Division to determine the distribution of inclusionary housing, middle-income, and Innovation Units.

MIT is committed to the creation of a residential community that is diverse in many ways. MIT will endeavor to design and program its open space, retail and Community Center to support the residential units’ appeal to people of all ages, races, genders, and family structures that is reflective of Cambridge’s diversity.
3. Breaking up large blocks to increase permeability and create a fine-grained network of connections that seamlessly integrates the PUD-7 District with the surrounding urban fabric of Kendall Square and the East Cambridge, Wellington-Harrington and Port neighborhoods.

The overarching goal of the Project is to establish a vibrant, diverse, inclusive, mixed-use district that creates a welcoming environment, provides opportunities for shared discovery, community and collaboration, and connects the Project to the surrounding neighborhoods. The Project provides a mix of residential, office, lab, retail and cultural uses that are intended to help achieve the Project’s overarching goals.

The Project is designed to replace the existing layout of the Volpe National Transportation Systems Center, which isolates the Site from the surrounding neighborhoods, with a layout that will reconnect it to the surrounding areas. By reconnecting with the East Cambridge community, the Project has the potential to become a unique cultural district centered around arts, innovation, and community.

The Project builds or completes connections among the neighborhoods of East Cambridge, Wellington-Harrington, The Port, MIT and Kendall Square. It maximizes permeability for pedestrians, cyclists, workers, residents and neighbors, and will create a more understandable and accessible district for regional visitors.

Key to weaving the Project into the fabric of Cambridge is a diverse, connected network of open spaces, strategically located to draw the public into and through what will be a new swatch of that fabric. This is combined with a set of proposed streets that break down the scale of the block by restoring east-west and north-south connections through the Site.

4. Sensitively interfacing with adjacent land uses with respect to use, scale, density, setback, bulk, height, landscaping and screening, while providing integrated pedestrian circulation systems with particularly strong linkages to the Broad Canal, riverfront, Grand Junction Corridor, other public spaces within Kendall Square, and the East Cambridge, Wellington-Harrington and Port neighborhoods.

In an effort to be consistent with the existing and planned uses in Kendall Square and improve connectivity, certain uses included in the Project are located immediately adjacent to similar existing uses. For example, the adjacent uses to the east include two residential buildings at 303 Third Street and 350 Third Street. The Project has located residential uses nearest to these two...
buildings in order to strengthen the area as a residential district. Immediately to the west and south is the “MXD District”, which is characterized by high-density commercial buildings. To integrate with the existing built environment and development patterns, Building R1 is located along the existing commercial corridor of Third Street that includes buildings of varying heights, including some that are very tall. The Project has located Community Center Park adjacent to 303 Third Street to extend the planned open space and create a centrally located community benefit. Third Street Park will be located at the corner of Third Street and Broadway and will be a significant new public open space for the residents of 303 Third Street and 350 Third Street, as well as residents from the neighborhoods of Cambridge, to enjoy. The Project has located its high-density commercial buildings along Broadway as an extension of the existing uses in the MXD District. To the north is existing commercial development along Binney Street with the East Cambridge residential neighborhood beyond. Along Binney Street, the Project locates one mixed-use commercial building, of size and scale consistent with others along the corridor, and one residential building to reflect the transitional nature of this street.

The Project builds or completes pedestrian, bicycle and vehicular connections among the neighborhoods of East Cambridge, Wellington-Harrington, The Port, MIT and Kendall Square. It maximizes permeability and enhances access to transit for pedestrians, cyclists, workers, residents and neighbors.

The basic site organization of the Project completes connections between the East Cambridge community to the north with Kendall Square and the Charles River to the south and enhances the connections between The Port and Central Square to the west with the amenities and recreation along the Broad Canal. Most of the Project’s immediate surroundings are characterized by small blocks and permeability. This remedies the existing condition of the property on which the Volpe National Transportation Systems Center is located, which is a large block with little or no public access and acts as a barrier to pedestrian movement.

The Project will create a Fifth Street connection that provides access to pedestrians from Binney Street through to the public access point at the Marriott Hotel to Kendall Square and the MBTA Red Line. The Project also extends the existing Broad Canal Way across Third Street to the Sixth Street Park and through the MXD property to Ames Street and beyond. Broad Canal Way is designed as a shared street with low vehicular volume to benefit the pedestrian experience of the adjacent ground floor active use and open space activities. Vehicular access ends at Kendall Way, providing a transition to a pedestrian and bicycle passage
to the Sixth Street Park. An important pedestrian connection is also made between Fifth Street past the Community Center Park and the Third Street Park to the corner of Broadway and Third Street. The Project is anticipated to increase pedestrian volume along Broadway as residents access the open spaces, amenities and the Community Center from The Port and Central Square. A generous Sixth Street Park, Kendall Way and Fifth Street all provide new points of permeability for pedestrians and cyclists from the west.

5. Sufficiently managing the height and bulk of new buildings to a) reduce the impact of shadows, excessive wind, and obstruction of light and views, with specific consideration given to residential buildings and public spaces; b) reduce detrimental environmental impacts such as excessive ground coverage, diminution of open space, and monotonous development; c) provide an appropriate scale at interfaces with adjoining lower scale uses, such as proposed and existing buildings and open spaces in the vicinity; d) not otherwise diminish the health and safety of the area around the development parcel; and e) establish a defined urban character at a “streetwall” height that is distinct from taller “tower” elements of buildings, in accordance with the goals set forth in the PUD-7 Guidelines and Principles.

The Project will break what is currently an impermeable superblock into an urban grid that continues the streets of Kendall Square and with connection points to adjacent developments and uses. This street grid will maximize permeability for pedestrians and cyclists, while providing limited, managed vehicular access for cars. The new street grid will create blocks conducive for urban development at this scale. The Project also creates two significant new open spaces. Buildings will be held nearly 50 feet from the westerly property line in order to create the linear Sixth Street Park adjacent to the Loughrey Walkway/Kittie Knox Bike Path. The most valuable development location on the corner of Third and Broadway will be dedicated to a new public Third Street Park. These two public spaces will be complemented with the Community Center Park at the corner of Fifth Street and Broad Canal Way to provide an open space network that will reduce and manage the negative impacts of wind, shadow, obstruction of lights and views both on the public open spaces and to adjacent residential buildings. The buildings will be designed to relate to the existing streetwalls and proposed open spaces and streets.

6. Creating an integrated network of high-quality streets and open spaces, including significant space for public gatherings and
recreation, that serves the surrounding communities as well as the development on the site by encouraging and fostering a sense of community, civic engagement, social interaction, economic development, and environmental sustainability.

Key to weaving the Project into the fabric of Cambridge is a diverse, connected network of open spaces, strategically located to draw the public into and through what will be a new swatch of that fabric. This is combined with a set of proposed streets that break down the scale of the block by restoring east-west and north-south connections through the Site.

The streets are designed to enhance public life in Kendall Square by providing a continuous and welcoming public realm that is shaded, comfortable, safe, and lively—during the day and into the night. The streets, courts, and squares will support a wide range of outdoor uses, and they will be enlivened by pedestrian-oriented retail and active uses located in the ground floors of the surrounding buildings. These spaces will create a varied, yet continuous public realm that gives the district permeability, porosity, strong view corridors, and a palpable and unique identity for Kendall Square. All streets are designed to support high-performance street tree installation in order to ensure the presence of a long-term urban canopy such that as the Project is built out and matures, MIT will be able to attain or exceed the City’s goals for a continuous tree canopy on its streets and within its open spaces. The Project’s streets, squares, and parks will be designed for public use and will take on public character.

The Project will create four significant new publicly-accessible parks as well as streetscapes that are flexible and extend the vibrancy of the open spaces through the Site and into the adjacent neighborhoods. The layout of the new parks will be finalized during this Special Permit process and design details will be developed in conjunction with the community through community workshops. Each of the new parks will reviewed by the City through subsequent Design Review.

The Project will include over 3.5 acres of new Publicly-Beneficial Open Space including two acres of open space permanently guaranteed for public use by means of a recorded covenant, easement, conservation restriction or similar legal instrument as required by Section 13.94 (d).

7. Integrating development with open space physically and functionally by means of building orientation, active frontages, location of building entrances, pedestrian linkages between major activity centers, and similar techniques in accordance with the objectives set forth in the PUD-7 Guidelines and Principles.
With ground floor activation along multiple sides of each building, the retail will complement the parks, sidewalks and streets to create a range of gathering spaces that foster community and allow for new and enhanced social and economic opportunities. This activation also provides the necessary flexibility to site complementary uses next to each other to create synergies and to support the zoning framework to foster diverse retail.

The Community Center, Entertainment Venue, and other arts and cultural uses will help to create a fully-integrated place with a range of experiences that naturally bring together diverse audiences. The Community Center and its adjacent open space will be designed as a place for friends and neighbors to come together for recreation, relaxation and recharging. The immediately surrounding retail could have complementary uses, such as an ice cream shop, bakery, smoothie bar, pizza shop and the like, in effect creating a mini neighborhood hub right in the middle of the Project. The Entertainment Venue will be an active anchor that is visible from Third Street and Broadway, drawing people into the site from both the east and the west. Kendall Way will provide a forespace for spill out activities associated with the venue.

These spaces are designed to accommodate a variety of programs - from daily, passive activities like eating lunch or playing a game of chess on a weekday afternoon, to a weekend farmers’ and/or artisans’ market that takes advantage of the variety of the open spaces, to a full-scale festival that incorporates the retailers, parks and ability to close down streets.

The retail mix of the future will be inventive and familiar, accessible and interesting. It will offer a variety of price points and experiences while blending the innovative and the every day. This Project is an incredible opportunity to build upon MIT’s values of diversity, equity and inclusion and strategies for achievement will be developed in concert with the community during community workshops.

8. Providing a strong street edge on major public streets, including Broadway and Third Street as well as new street connections through the district, to create a memorable “main street” experience.

The Project will be designed to create a memorable “main street” experience along the existing and new major streets. The streets created and improved as part of the Project will be maintained as private ways and will be integrated with the City’s existing roadway network. A plan showing the proposed ownership of existing and proposed streets in and around the Project is included as Volume 2, Figure A3: Street Ownership Plan. Of note, MIT does not and will not own some significant portions
MIT intends to work with the City to execute an easement, covenant or other agreement that would allow portions of the new roadway segments to be used by the public for pedestrian, bicycle and, in certain locations, vehicular traffic, all as shown on Volume 2, Figure D9: Connections to Vehicular Routes. From time to time, MIT plans to close and use portions of the private streets for community festivals, street fairs and other similar gatherings and events. Changes in the surrounding public streets (Binney, Third and Broadway) that result from a CRA/City-led process will be considered as part of the overall mitigation for the Project. If applicable, the design and construction of streets will comply with City ordinances and standards and shall be subject to receipt of all required consents, permits and approvals.

There is significant opportunity to improve the public experience on Broadway by including active retail on much of its north side length. Building floor plates will be raised in response to the City’s flood risk guidelines, resulting in the opportunity for the Broadway buildings to have elevated porches that provide compelling retail premises, particularly for food and beverage uses, with heightened sight lines, robust outdoor seating and display areas. These porches, raised approximately 18 inches above sidewalk level, will help define clear zones for diners and pedestrians without creating a barrier between the two. Third Street frontage will include one residential building with retail on the ground floor to extend the vibrant Third Street retail corridor before opening up to a new “public square” at the proposed Third Street Park.

The Project will build upon the success of Broad Canal Way in recent years in activating the district and providing access to the Charles River. The Project will extend the ground floor retail and other active uses to the west from the Canal District to the nearby MXD District with a focus on vibrant storefronts and diverse offerings for food and beverage.

Locating residential entries along Potter Street will transform it into a two sided residential street which will be an attractive connection to the Community Center Park, Fifth Street, the Sixth Street Park and the Loughrey Walkway for pedestrians and bicyclists.

9. Providing active ground floors that animate streets and open spaces, and add to the vitality of Kendall Square.

The Project is designed to enhance the public pedestrian usage of the sidewalks and create a sense of continuity by providing an interesting and active presence at street level. Over the last 20 years, Kendall Square has transformed from an industrial area to one with successful ground floor...
amenity and service retail along Third Street, Main Street and Binney Street, as well as along One Broadway, Broad Canal Way and Kendall Street east of Third Street. In addition, there are a number of planned cultural facilities in the area, including the Foundry and the MIT Museum, that will add additional texture to the resident and visitor experiences. The ground floor and public realm at the Project is an opportunity to further advance this vision. MIT will build upon this activation by creating a ground floor environment that is inclusive, innovative, extends hours of operation and supports local and independent concepts to create a destination that resonates with the Cambridge community.

The Community Center, Entertainment Venue, and cultural and art uses together will allow for a fully integrated place with a range of experiences. The Community Center and its adjacent open space and park will be designed as a place for friends and neighbors to come together for recreation, relaxation and recharging. The Entertainment Venue is envisioned as a place for live music of all genres that appeals to all ages managed by a for profit operator similar to the Sinclair in Harvard Square. The flexible design of the space will allow for indoor/outdoor musical activation that can spill out into the adjacent spaces including Sixth Street Park, the passageway and the plaza at the nexus of Kendall Way and Broad Canal Way.

MIT envisions Broad Canal Way, Third Street and Broadway as the having the potential of becoming most prominent and successful retail corridors in the City and region. Areas along particular nodes of activity, such as near the Community Center and Third Street Park, will be secondary retail locations with uses that complement their adjacencies. For example, food and beverage concepts in the base of C1 could include large windows that open to the outside and outdoor dining that overlooks Third Street Park, or an ice cream shop being located near the Community Center.

10. Fostering a spirit of inclusiveness and diversity particularly in the planning and programming of Open Space, Active Space, Innovation Space, and Community Space (in accordance with the requirements set forth below) to draw users and visitors from across the city.

The Project’s planning efforts have been informed not only by learning from prior experiences, but also a sharpened focus on equity and diversity. While the Project reflects this focus, MIT is continuing to look for opportunities to more fully integrate these values into affordable housing, the Community Center, retail, employment opportunities and open space. Alongside the Cambridge community, MIT will closely examine the role and mission of the Community Center, including the Job Connector, and its connection to sustainability, open space,
innovation and commercial activities. The Project’s housing will be carefully programmed to increase racial equity and inclusion.

MIT is planning the Project in a holistic way to ensure strong connectivity and vibrancy with a focus on inclusion. The project team hosted a series of community workshops in late 2020 into 2021 regarding the community center, open space, retail, housing and employment to gather input on how best to create a truly equitable and inclusive environment. The workshops and their outcomes are described in detail in Volume I, Section D.

11. **Enhancing the architectural diversity and aesthetic qualities of the PUD-7 District to harness the spirit of innovation and creativity in Kendall Square and reinforces a Cambridge sense of place.**

The Project will be designed to human scale by means of building envelope, material selection, public accessibility at lower levels, massing step backs, fenestration patterns and construction details. They will also be specific to context, climate and orientation.

For each use, the Project will include a range of different building types, with differing styles, colors and materials. The buildings have also been situated and designed to enhance the community and public spaces. For example, active ground floor uses, including retail, entertainment and Innovation Space, will be located on multiple sides of the proposed new buildings. This will enhance the diversity of spaces within each of the buildings, as well as the relationship between each of the buildings, the public realm, and the surrounding neighborhood.

This Master Plan provides a framework for site organization, massing, programming and impacts of the Project. MIT will continue to work with the community on open space design, Community Center programming, inclusivity, housing equity and employment readiness training.

The architectural character will support these objectives by:

- providing diversity and variety within a community of buildings designed for a mix of uses;
- relating to human scale and address scale at the pedestrian, building and district level; and
- responding to surrounding context off site.

Additional details demonstrating the Project’s architectural diversity and aesthetic qualities will be established in the Project’s Design Guidelines to be approved in connection with the Special Permit process.

12. **Promoting best practices for environmental sustainability in district-wide planning**
and in establishing design objectives for individual buildings and sites, in accordance with the City’s ongoing planning efforts, including the Net Zero Action Plan, and Climate Change Preparedness and Resiliency Plan.

Environmental sustainability is a foundational component of the Project and MIT will be a leader in sustainability in this Project. There are several key strategies that establish the Project as an exemplar of sustainable Master Plan design. As mentioned previously, the Project will include a large urban district-scale blackwater treatment plant to reuse all eligible building water on-site. Additionally, MIT intends for the residential buildings (40% of the development, approximately 1,400 units) to be all-electric, and therefore, will have zero on-site emissions to support a net-zero carbon future. The Project also establishes a pathway for getting to all-electric commercial buildings and will evaluate each building against this pathway as it approaches the Design Review phase.

Among other sustainability design elements, all buildings will be LEED Gold certified. In addition to sustainability design elements, the Project includes resiliency design elements such as raising the finished grade of the entire Development Parcel to the 2070 100-year flood elevation.

Collectively, these exemplary strategies distinguish the Project from regional peers and build on sustainable commitments for site, transit, resiliency, and healthy building design. As described in MIT’s Green Building Report for this Project (Volume 3, Appendix C), the Project has been informed by the City’s Net Zero Action Plan and Climate Change Preparedness and Resiliency Plan.

13. Demonstrating a commitment to implementing a Transportation Demand Management and Mitigation Program consistent with the reduced parking mandated in this PUD zoning and the capacity limitations of the transportation network that serves the Kendall Square area, including roadways and public transportation systems. In approving a Final Development Plan, the Planning Board shall refer to Article 18.000 and Section 19.20 of this Zoning Ordinance, applicable PUD-7 Guidelines and Principles, and other City transportation planning efforts (including the Kendall Square Mobility Task Force) and may require measures to be linked to milestones, thresholds or performance standards connected to the scale and pace of development within the PUD.

MIT will support a program of transportation demand management (TDM) actions to reduce automobile trips generated by the Project. The
goal of the Project’s TDM plan is to reduce the use of SOVs by encouraging carpooling and vanpooling, bicycling, walking, and increased use of the area’s public transportation system by employees and visitors. MIT submitted a draft TDM plan to the City on January 20, 2021. The plan has been reviewed by the City’s PTDM officer, and MIT is in the process of making revisions in response to the input that was provided. MIT will work with tenants of the new buildings to join the Charles River Transportation Management Association and implement effective TDM strategies that will be incorporated in a PTDM Plan to be approved by the City’s PTDM Officer.

In 2019, the Kendall Square Association in partnership with the City of Cambridge and the Cambridge Redevelopment Authority released the Transport Kendall Report: Actions to Transform Mobility. This report builds on the work of the Kendall Square Mobility Task Force (KSMTF) and outlines priority transportation projects for the Kendall Square area. The focus areas include the Grand Junction, MBTA Red Line, and Bus Service. As part of the PUD-7 Zoning, MIT has committed to $8.5 million transportation improvements in Kendall Square, which may be used for KSMTF priorities at the City’s discretion, and another $8.5 million for design and construction of the Grand Junction Path.

Improvements in the surrounding public streets (Binney, Third and Broadway) that result from a CRA/City-led process are included as part of the overall mitigation for the Project.

Below is a summary of MIT’s TDM measures (details for each are included in the approved PTDM Plan):

1. Designation of employee transportation coordinator/s
2. Marketing and Promotion of TDM programs
3. Coordination with the Cambridge Office of Workforce Development and availability of Job Connector
4. Membership in the Charles River TMA with access to the following services:
   a. EZ Ride Shuttle Service
   b. Ride matching
   c. Emergency Ride Home
   d. Carsharing Program
5. Office/R&D employees will have access to a range of subsidy options, including up to 100% for transit, 50% for vanpool, $90 monthly payment, Gold Level Bluebike membership – depending on how much the tenant companies decided to charge their employees for parking.
Parking charge has to be a minimum of 50% market rate, with no free parking allowed.

6. Pre-Tax funds

7. Retail/Restaurant, Entertainment, Community Center Patron TDM Measures

8. Bicycle and Pedestrian Programs
   a. Bicycle and walking options information
   b. Short-term and long-term bicycle parking
   c. Access to showers and changing rooms
   d. Contribution of $138,150 towards the purchase and installation of two 27-dock Bluebike stations
   e. Bluebike valet area
   f. Air/bike repair stand
   g. Electrical outlets in bike rooms

8. Flexible work schedules

9. Parking supply management
   a. Shared parking
   b. Carpool/vanpool dedicated preferential spaces
   c. Dedicated Electric Vehicle charging stations

MIT, in coordination with TP&T, has developed a robust transportation mitigation plan that aims to offset the Project’s impacts on transportation systems. The proposed mitigation accounts for the proposed scale and phasing of development and the limitations on system capacity to accommodate new vehicle, transit, and other trips. Highlights of the mitigation plan are noted below:

1. Two 27-dock Bluebike stations
2. Space for a Bluebike valet
3. Bike fixit stations in bike room and near clusters of short-term bike parking
4. Complete 100% design plans and reconstruction of both sides of Binney Street between 6th St and Third St
5. Design and construct Binney St / Fifth St. intersection with turn lanes, crossings and signalization (if warranted)
6. Design and construct separated bike lanes on Fifth St. between Binney St and Broadway
7. Design and construct ped/bike connection from Potter St to Kittie Knox Path/Sixth Street walkway
8. Share the cost of completing 100% design plans and reconstruction of Broadway (including both sides of Broadway between Ames St and Third St)

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*Subject to the receipt of any necessary rights from the owners of 303 Third Street.*

10. Design and construct left turn lane from Broadway to Fifth St. (include signalization if warranted).

11. Design and construct crossing for improved connection to Kendall Sq T Station; Signalize with RRFB.

12. Upgrade traffic signal equipment at Binney St./Third St. intersection to accommodate cycle tracks.

13. Reconstruct Munroe St. between Fifth St. and Third St.

14. Share the cost (with BioMed) of completing 100% design plans and reconstructing Third St. between Binney St. and Broadway.

15. Design and construct a two way cycle track on Potter Street between Third St and Volpe GSA driveway.

16. Install a new traffic signal at Potter St/Third St intersection, including dedicated northbound left lane on Third St and crosswalks at approaches.

17. Install crosswalks and signage at intersection of Third St at Broad Canal Way.

18. Upgrade traffic signal equipment at Broadway/Third Street intersection to accommodate cycle tracks.

In addition to these mitigation measures, MIT will contribute approximately $8.5 million towards transit improvements (Section 13.96.6(a)(1) of the CZO) and make an $8.5 million contribution towards Grand Junction Path design and construction (Section A of the PUD-7 Commitment Letter).

In addition to satisfying the special permit criteria of Section 13.91.4, the Project also otherwise complies with the limitations and requirements of the PUD-7 zoning, as more particularly set forth below:

### 13.92 Uses Allowed in the PUD-7 District

The Project will contain the uses that are compliant with the uses permitted in Section 13.92 of the CZO. Specifically, the uses in Buildings R1, R2, R3 and R4 will contain multi-family residential use consistent with the uses listed in Section 4.31.g, and, potentially, a limited amount of hotel use consistent with the uses listed in Section 4.31.i.2. Buildings C1, C2, C3 and C4 will contain office and laboratory uses consistent with the uses set forth in Section 4.34. All of the proposed buildings will contain first floor active uses including retail and/or restaurant uses consistent with the provisions of the Section 4.35 of the CZO. Finally, the Community...
Center will contain uses that are consistent with the uses set forth in Section 4.33.e.2.

13.93 District Dimensional Regulations

The new buildings, once constructed, will not cause the GFA in PUD-7 to exceed 2,820,000 SF (which excludes the GFA of the US DOT Volpe Exchange Project).

As set forth more particularly on the Dimensional Form, the proposed buildings will contain a total of 3,004,900 SF of aggregate GFA (before application of specifically permitted exemptions):

- Building C1 will contain approximately 437,700 SF of GFA;
- Building C2 will contain approximately 521,700 SF of GFA;
- Building C3 will contain approximately 474,113 SF of GFA;
- Building C4 will contain approximately 370,400 SF of GFA;
- Building R1 will contain approximately 197,700 SF of GFA;
- Building R2 will contain approximately 302,600 SF of GFA;
- Building R3 will contain approximately 450,200 SF of GFA;
- Building R4 will contain approximately 227,000 SF of GFA;
- Community Center (in R1) will contain approximately 25,000 SF of GFA; and
- Pavilions will contain approximately 3,500 SF of GFA.

The above total floor area of the Project is subject to a number of exemptions as specified below, including approximately 83,663 SF of Innovation Lab/Office Space, approximately 81,250 SF of Active Space, and 25,000 SF of Community Space. With these exclusions, the adjusted total proposed GFA for the Project will measure approximately 2,820,000 SF.

- Retail/Active Use Exemption. The Dimensional Table indicates that the Project will contain up to 100,000 SF of GFA associated with retail and active use space. MIT has made the conservative assumption that approximately 82% of that retail and active use space will be exempt from GFA as those spaces will meet the space limitations set forth in Section 13.96.1. This exemption assumes the 25,000 SF Entertainment Venue situated adjacent to Broad Canal Way and the Sixth Street Park is consistent with the purposes and objectives of the PUD-7 Zoning and the PUD-7 Guidelines and Principles and, therefore, is also subject
to the exemption. The total exemption that MIT has applied to the Project for retail and active use space measures 81,250 SF. This exemption is well below the maximum exemption that MIT could apply to retail and active uses of 161,000 SF (i.e., 5% of the total 3,220,000 SF GFA) allowed in the PUD-7 District.

- **Innovation Office Space Exemption.** Pursuant to Section 13.93.1(b)(3), the Project exempts 83,663 SF of Innovation Office Space. As indicated in the Dimensional Table, the Project is proposed with up to 167,326 SF of Innovation Office Space (totaling 10% of the office and laboratory GFA of the Project). The above-referenced Section allows for an exemption of up to 50% of the planned Innovation Office Space up to a maximum of 5% of the non-residential GFA permitted within the PUD-7 District. As the non-residential and non-exempt GFA of the Project totals 1,692,000 SF, the total allowable exemption would total 84,600 SF. As a result, the exemption of 83,663 SF complies with the provisions of the PUD-7 Zoning. If less than 167,326 SF of Innovation Lab/Office Space is actually constructed, the calculation above will change and this exemption will be reduced.

- **Community Space Exemption.** Pursuant to Section 13.93.1(b)(5), the Community Center satisfies the requirements of Section 13.96.5 for Community Space (as indicated more specifically in this Section) and, as a result, the 25,000 SF attributable to the Community Center is exempt from the overall GFA limitation.

**13.93.1(c) Required Residential Development**

As indicated above, the GFA of the Project after the application of permissible exemptions totals 2,820,000 SF. The Project contains multi-family GFA totaling 1,128,000 SF, which equals 40% of the total non-exempt GFA contained in the development, thereby satisfying the requirements of Section 13.93.1(c). Presently, MIT does not plan to include any hotel use within the Project, but MIT does desire to maintain the flexibility to include limited hotel use in the future by minor amendment to the development, subject to complying with the requirements of Section 13.93.1(c)(2).

As indicated elsewhere in the filing, the Project will contain Affordable Units equal to 20% of all of the Net Dwelling Unit Area of the Project consistent with the requirements of Section 13.93.1(c)(4) and Section 11.203.

Finally, as otherwise set forth in this Application and in the Development Plan, MIT will develop the residential uses on a schedule that meets the objectives of the PUD-7 Zoning and will otherwise
meet the phasing requirements and limitations of Section 13.93.1(c)(3).

13.93.2 Minimum Development Parcel Size

As indicated in Volume 2, Figure A2: Development Parcel and on the Dimensional Table, the Project contains a single Development Parcel containing 455,750 SF in two non-contiguous parcels of real estate, which is permitted by Section 13.93.2(b). This lot area exceeds the minimum 25,000 SF lot size required for Development Parcels in the PUD-7.

13.93.4 Maximum Building Height

As indicated in Volume 2, Figure B5: Conceptual Project Heights, the heights of the buildings in the Project comply with the maximum building height limitations set forth in Section 13.93.4(a)-(c). Specifically, Buildings R1, C1, C2 and C3 have proposed heights of 250 feet, consistent with the provisions and limitations of Section 13.93.4(a). Additionally, Building C4, which is situated on the northern portion of the Site, is limited to 170 feet in height, consistent with the commercial building height limitation for that portion of the PUD-7 District set forth in Section 13.93.4(b). Building R4, which is a mixed-use residential building, has a height of 250 feet, which is permitted under Section 13.93.4(b) and the floor plates meet the 15,000 SF limitation for the portions of said building exceeding 170 feet in height. Finally, Building R2 has a proposed height of 300 feet, and Building R3 has a proposed height of 456 feet. As a residential building situated south of Potter Street, Building R3 may exceed 300 feet in height, and measure up to 500 feet in height, pursuant to Section 13.93.4(c)(1) and (3). Buildings R2 and R3 have also been planned so that the floor plates above 250 feet do not exceed 15,000 SF in size in full compliance with Section 13.93.4(c)(2). In addition, during the Design Review process, one or both of Buildings C2 and C3 may be increased above 250 feet in height and the floors above 250 feet may include a mixture of GFA and areas exempt from the calculation of GFA, provided that no more than 15,000 sf of GFA may be included within any individual floor plate in accordance with Section 13.93.4(c)(2) of the Ordinance. Additional variation in heights of the commercial buildings on Broadway is desirable and will be explored further through the Design Review process, as noted above.

13.93.5 Other Dimensional Requirements

As indicated throughout this Application and in Volume 2, Figure E9: Sixth Street Park Conceptual Programming, Buildings C3 and R3 are set back approximately 50 feet from the existing Loughrey Walkway, which is in excess of the 10 feet required in Section 13.93.5.
13.94 Open Space

As noted on the Dimensional Table and in Volume 2, Figure E4: Open Space Plan - Publicly Beneficial Open Space, the Project contains over 3.5 acres of Publicly-Beneficial Open Space. Section 13.94(a) requires that the Project contain a minimum of 2.66 acres (115,815 SF) of Publicly Beneficial Open Space, which equals 25% of the total land area in PUD-7 (463,258 SF) which includes the CRA Parcel (5,889 SF) and the GSA Triangle Parcel (1,618 SF). In addition, as indicated in Volume 2, Figure E5: Open Space Plan – Permanently Guaranteed for Public Use, the Project will contain two acres of Permanently Guaranteed Open Space as required by Section 13.94(d). All of the Permanently Guaranteed Open Space will be privately owned and maintained but will be permanently guaranteed for public use by means of a recorded covenant, easement, conservation restriction or similar legal instrument.

13.95 Parking and Loading Requirements

As indicated in the TIS and this Application, the Project will comply fully with the Parking Requirements of the PUD-7. The total parking for the Project, based on a shared parking arrangement, will contain 1,759 parking spaces, which is based on the use breakdown described in the Dimensional Table. Based on the mix of uses proposed for the Project, the Project could contain up to 2,484 accessory parking spaces. As a result, the Project complies with the maximum parking limitations of Section 13.95.4.

Limited short-term on-street loading/active curb/parking spaces will be allowed to support retailers and provide access to those who, due to age or ability, may be unable to walk or bike to the Project. The proposed plan can potentially accommodate up to 27 on-street spaces for short-term vehicle parking or active curb uses (not including Binney Street, Third Street or Broadway). MIT will make final adjustments at the Design Review phase for each building/open space. The combined number of vehicle parking spaces, including the Project’s short-term on-street parking and below-grade garages, will not exceed the proposed 1,759.

Based on the above and the shared parking arrangement, MIT requests the Planning Board’s approval for the Project of a waiver of the minimum parking requirements of the CZO and the shared parking arrangement as permitted pursuant to Section 13.95.3.

In addition, consistent with the requirements of Section 13.96.5(a), most of the Project’s parking will be located in two underground garages: one situated north of Munroe Street containing approximately 360 spaces and one situated south of Potter Street containing approximately 1,399 spaces, as indicated in Volume 2, Figures C3-C5.
Parking Facilities Plan. The Project is designed to accommodate short-term parking or active curb spaces on the surface, distributed throughout the Site, to service retail and other ground-floor uses. Short-term street parking spaces provided will be subtracted from the amount provided in the below grade garages.

13.95.8 Loading
The Final Development Plan will specify the loading facilities serving each building within the Project as required by Section 13.95.8.

13.95.9 Bicycle Parking
The Project will provide long-term and short-term bicycle parking both in amount and in location as is required by Section 6.100. Volume 2, Figure C1: Vehicular and Bicycle Parking Access Plan indicates that there will be 1,876 long-term bicycle parking spaces and 338 short-term bicycle spaces. As indicated below, based on the distribution of the uses in the Project, the amount of bicycle parking provided in the Project satisfies the minimum parking requirements set forth in Section 6.100.

13.96 Special Requirements, Conditions and Standards Applicable to Certain Development Authorized by the Planning Board in the PUD-7 District

13.96.1 Active Uses and Pedestrian Activity
As indicated in Volume 2, Figure F2 Ground Floor Activation – Proposed and Figures F3 and F4 Conceptual Activation Plan, the Project will contain significant retail and active use space on the first floors of the buildings for uses set forth in Sections 13.92.4 and 13.96.1. All of the Active Space will be accessible by one or more entrance(s) providing direct access from sidewalks or open space and will not require passage through any non-Active Space. As indicated on the above-referenced plans, the building frontages directly abutting Broadway, Third Street and Binney Street will contain Active Space totaling more than 65% of the building frontage for each building and have a depth in each instance in excess of 20 feet, consistent with the requirements for minimum Active Space contained in Section 13.96.1(b). Additionally, the retail spaces are designed so as to ensure that the Project will provide at least 25% of the Required Active Use, as defined in Section 13.96.1(b)(1), for Independent Retail Operators that occupy no more than 3,000 SF of floor area as required by Section 13.96.1(b)(2) (provided grocery, market or pharmacy uses of up to 10,000 SF may be included).
Finally, as required by Section 13.96.1(d), MIT has retained an employee on staff that has substantial retail experience in urban markets and has been instrumental in attracting retailers to Kendall Square in connection with the build-out and lease up of the Kendall Square Initiative. MIT has also hired Graffito SP as a retail consultant as indicated by the tenanting and programming recommendation letter submitted with this Application. Based on the above, MIT has fully complied with the requirements of Section 13.96.1(d).

13.96.2 Rooftop Mechanical Equipment Noise Mitigation

The buildings and the rooftop mechanical equipment used in connection with the use and operation of the buildings will be sized, installed and operated utilizing best available and feasible practices. MIT will comply with the requirements of Section 13.96.2(a) and (b) at the times required for such filings to be submitted to the City during the development. Prior to obtaining a certificate of occupancy for each new commercial building, MIT will submit an acoustical report prepared by a professional acoustical engineer to confirm that the noise or vibration emanating from the equipment situated on the rooftops of such buildings will comply with the requirements of both the MassDEP noise policy (310 CMR 7.10) and the City’s Noise Control Ordinance (Chapter 8.16 of the Cambridge, Massachusetts Municipal Code).

In addition, prior to obtaining a building permit to add any new equipment having a capacity greater than five horsepower to the rooftop of any building, MIT will submit a narrative report with appropriate field measurements, prepared by a professional acoustical engineer in order to demonstrate that there will be continued compliance with all applicable noise requirements.

13.96.3 Innovation Space

The Project complies with the requirements of Section 13.96.3(a)(1) as it will contain up to 167,326 SF of Innovation Office Space, which totals 10% of the non-exempt office and laboratory GFA of the Project. MIT will ensure that the Innovation Office Space satisfies the requirements of Sections 13.96.3(a)(2) and 13.96.3(b)(1)-(4) as it develops and leases up the same. The Innovation Space will be located in at least two (2) of the commercial buildings. Innovation Space in any one building shall measure at least 20,000 square feet. MIT shall have the right at any time, and from time to time, to modify the location of all or any of the proposed Innovation Space among the buildings situated on the Development Parcel and/or, as provided in 13.96.3(a)(3), in buildings situated, or the be constructed, within one and one-half miles of the Development Parcel, which relocation MIT shall notify the Planning Board of during the Design Review process for any individual building.
13.96.4 Sustainability
As indicated in the Sustainability narrative included with this Application and as stated elsewhere herein, MIT has designed the buildings to comply with the provisions of Section 22.20. The Project employs a comprehensive approach to achieve sustainability that involves international best practices in establishing a new benchmark in urban sustainable development, community, and innovative solutions to local and regional environmental design issues. MIT is committed to adopting the next generation of sustainable building benchmarking.

As required by Section 13.96.4(a), MIT will design the buildings in the Project to incorporate an integrated design approach and incorporate best practices for meeting sustainability in the following areas: Energy and Emissions, Steam; Urban Site and Landscaping; Water Management; Cool Roofs; and Monitoring.

13.96.5 Community Space
The Project’s 25,000 SF Community Center satisfies the requirements of Section 13.96.5. This important space will be programmed for public recreation, social services and educational programs and will serve the residents of the neighborhoods of East Cambridge, Wellington-Harrington and The Port as well as the broader Cambridge community. The Community Center will complement other public and community services available (or that will be available) at the Foundry, East End House and others.

13.96.6 Funding Contributions
In compliance with the provisions of 13.96.6(a), MIT will contribute funds to the Kendall Square Fund prior to the issuance of Certificates of Occupancy for each building containing non-exempt non-residential GFA at a rate equal to $10.00 per square foot of such non-exempt non-residential GFA contained in such building. Any amounts paid to the City pursuant to Section 13.96.6(a), shall be allocated equally by the City between transportation improvements and services that benefit the Kendall Square neighborhood and residents in adjacent neighborhoods and for the Community Benefits Fund.

In addition, MIT will pay such amounts as are required under Section 11.202 for any building or portion thereof within the Project that qualifies as an Incentive Project, as required by Section 13.96.6(b).

13.98 Letter of Commitment
As more specifically set forth in Section 2.E of this Application, MIT has complied with all of the requirements of the Letter of Commitment dated October 23, 2017.
D. Compliance with Article 19
Project Review Special Permit Criteria (Section 19.25)

Section 19.25 provides that the Planning Board must make certain findings in order to grant a Project Review Special Permit under Section 19.20, which findings ensure that new construction or changes of use in existing buildings are consistent with the City’s urban design objectives and do not impose substantial adverse impacts on City traffic. As shown by the following analysis, the Project is consistent with the City’s urban design objectives and does not impose substantial adverse impacts on City traffic. In granting a special permit under Article 19.20, the Planning Board shall make the following findings:

19.25.1 – Traffic Impact Findings. Where a Traffic Study is required as set forth in Section 19.24(3) above the Planning Board shall grant the special permit only if it finds that the project will have no substantial adverse impact on City traffic within the study area as analyzed in the Traffic Study. Substantial adverse impact on City traffic shall be measured by reference to the traffic impact indicators set forth in Section 19.25.11 below. In areas where the Planning Board determines that area-specific traffic guidelines have been established in the Ordinance, the Board recognizes written agreements between project proponents and the City dealing with transportation mitigation strategies.

Based on the TIS analysis, the Project has been evaluated within the context of the Planning Board Criteria to determine if the Project has any adverse transportation impacts. Exceeding one or more the Criteria is indicative of a potentially adverse impact on the City’s transportation network. However, the Planning Board may consider mitigation efforts, their anticipated effectiveness, and other information that identifies a reduction in adverse transportation impacts.

The Planning Board Criteria consider the Project’s vehicular trip generation, impact to intersection level of service and queuing, as well as increase of volume on residential streets. In addition, pedestrian and bicycle conditions are considered. A discussion of the Criteria set forth by the Planning Board is presented in the final section of the TIS, and the Planning Board Criteria Performance Summary is presented below.

The Project has an estimated 113 exceedances out of 653 data entries. The top three groups of exceedances pertain to trip generation, pedestrian impacts, and vehicular level of service impacts. A summary of the proposed mitigation is provided in Section 16 of the TIS.

19.25.11 - Traffic Impact Indicators. In determining whether a proposal has substantial
adverse impacts on City traffic, the Planning Board shall apply the following indicators. When one or more of the indicators is exceeded, it will be indicative of potentially substantial adverse impact on City traffic. In making its findings, however, the Planning Board shall consider the mitigation efforts proposed, their anticipated effectiveness, and other supplemental information that identifies circumstances or actions that will result in a reduction in adverse traffic impacts. Such efforts and actions may include, but are not limited to, transportation demand management plans; roadway, bicycle and pedestrian facilities improvements; measures to reduce traffic on residential streets; and measures undertaken to improve safety for pedestrians and vehicles, particularly at intersections identified in the Traffic Study as having a history of high crash rates. The indicators are: (1) Project vehicle trip generation weekdays and weekends for a 24-hour period and A.M. and P.M. peak vehicle trips generated; (2) Change in level of service at identified signalized intersections; (3) Increased volume of trips on residential streets; (4) Increase of length of vehicle queues at identified signalized intersections; and (5) Lack of sufficient pedestrian and bicycle facilities. The precise numerical values that will be deemed to indicate potentially substantial adverse impact for each of these indicators shall be adopted from time to time by the Planning Board in consultation with the TPTD, published and made available to all applicants.

MIT submitted a Transportation Demand Management (TDM) Plan to the City’s PTDM officer on January 20, 2021. The plan has been reviewed by the City’s PTDM officer, and MIT is in the process of making revisions in response to the input that was provided. MIT will support a TDM program to reduce automobile trips generated by the Project. The goal of the Project’s TDM plan is to reduce the use of single-occupancy vehicles by encouraging carpooling and vanpooling, bicycling, walking, and increased use of the area’s public transportation system by employees and visitors.

MIT will work with tenants of the new buildings to join the Charles River Transportation Management Association and implement effective TDM. The PTDM plan has been developed to satisfy the requirements of the City’s Parking and Transportation Demand Management (PTDM) ordinance.

Employee-related TDM programs will be available to all employees of commercial tenants regardless of land use. Several TDM programs and alternative mode accommodations will also be utilized by patrons of the retail tenants. The requirement for tenants to offer the PTDM programs to their employees and visitors, as well as participate in
monitoring requirements will be incorporated into the tenant lease language.

Below is a summary of MIT’s TDM measures [details for each are included in the approved PTDM Plan):

1. Designation of employee transportation coordinator/s
2. Marketing and Promotion of TDM programs
3. Coordination with the Cambridge Office of Workforce Development and availability of Job Connector
4. Membership in the Charles River TMA with access to the following services:
   a. EZ Ride Shuttle Service
   b. Ride matching
   c. Emergency Ride Home
   d. Carsharing Program
5. Office/R&D employees will have access to a range of subsidy options, including up to 100% for transit, 50% for vanpool, $90 monthly payment, Gold Level Bluebike membership – depending on how much the tenant companies decided to charge their employees for parking. Parking charge has to be a minimum of 50% market rate, with no free parking allowed.

6. Pre-Tax funds
7. Retail/Restaurant, Entertainment, Community Center Patron TDM Measures
8. Bicycle and Pedestrian Programs
   a. Bicycle and walking options information
   b. Short-term and long-term bicycle parking
   c. Access to showers and changing rooms
   d. Contribution of $138,150 towards the purchase and installation of two 27-dock Bluebike stations
   e. Bluebike valet area
   f. Air/bike repair stand
   g. Electrical outlets in bike rooms
9. Flexible work schedules
10. Parking supply management
    a. Shared parking
    b. Carpool/vanpool dedicated preferential spaces
    c. Dedicated Electric Vehicle charging stations
MIT, in coordination with TP&T, has developed a robust transportation mitigation plan that aims to offset the Project’s impacts on transportation systems. The proposed mitigation accounts for the proposed scale and phasing of development and the limitations on system capacity to accommodate new vehicle, transit, and other trips. Highlights of the mitigation plan are noted below:

1. Two 27-dock Bluebike stations
2. Space for a Bluebike valet
3. Bike fixit stations in bike room and near clusters of short-term bike parking
4. Complete 100% design plans and reconstruction of both sides of Binney Street between 6th St and Third St
5. Design and construct Binney St / Fifth St. intersection with turn lanes, crossings and signalization (if warranted)
6. Design and construct separated bike lanes on Fifth St. between Binney St and Broadway
7. Design and construct ped/bike connection from Potter St to Kittie Knox Path/Sixth Street walkway
8. Share the cost of completing 100% design plans and reconstruction of Broadway (including both sides of Broadway between Ames St and Third St)
9. Design and construct a pedestrian crossing near the intersection of Broadway / Kendall Way / Green Garage Signalize with a Rectangular Rapid Flash Beacon (RRFB)
10. Design and construct left turn lane from Broadway to Fifth St. (include signalization if warranted)
11. Design and construct crossing for improved connection to Kendall Sq T Station; Signalize with RRFB
12. Upgrade traffic signal equipment at Binney St./Third St. intersection to accommodate cycle tracks
13. Reconstruct Munroe St. between Fifth St. and Third St.
14. Share the cost (with BioMed) of completing 100% design plans and reconstructing Third St. between Binney St. and Broadway
15. Design and construct a two way cycle track on Potter Street between Third St and Volpe GSA driveway
16. Install a new traffic signal at Potter St/Third St intersection, including dedicated northbound left lane on Third St and crosswalks at approaches

* Subject to the receipt of any necessary rights from the owners of 303 Third Street.
17. Install crosswalks and signage at intersection of Third St at Broad Canal Way

18. Upgrade traffic signal equipment at Broadway/Third Street intersection to accommodate cycle tracks

In addition to these mitigation measures, MIT will contribute approximately $8.5 million dollars contribution towards transit improvements (Section 13.96.6(a)(1) of the CZO) and make an $8.5 million dollar contribution towards Grand Junction Path design and construction (Section A of the PUD-7 Commitment Letter).

19.25.2 Urban Design Findings. The Planning Board shall grant the special permit only if it finds that the project is consistent with the urban design objectives of the city as set forth in Section 19.30. In making that determination the Board may be guided by or make reference to urban design guidelines or planning reports that may have been developed for specific areas of the city and shall apply the standards herein contained in a reasonable manner to nonprofit religious and educational organizations in light of the special circumstances applicable to nonprofit religious and educational activities.

a. 19.31 – New projects should be responsive to the existing or anticipated pattern of development.

The overarching goal of the Project is to create a welcoming, connected innovation environment, establishing a vibrant, diverse, inclusive, mixed-use district that provides opportunities for shared discovery, community and collaboration.

The Project is conceived as an interconnected whole made up of streets, parks, urban plazas and passageways which together constitute the civic framework of the site and connect the site to the surrounding neighborhoods. Integral to weaving the Project into the fabric of Cambridge is a diverse, connected network of open spaces, strategically located to draw the public into and through what will be a new swatch of that fabric. Where there is currently an isolated parcel, there will be an extension of the existing fabric, in which the edges between existing neighborhoods and new development are intentionally blurred.

Key to establishing connectivity to both the existing network of streets and to the scale of the surrounding neighborhood is the idea of breaking up the larger block of the existing Site. By introducing Fifth Street to connect Broadway to Binney Street, the plan re-establishes both a pedestrian scale and an urban pathway that has not existed for 50 years. By extending Broad Canal Way deeply into the Site as a multi-modal, pedestrian-focused street, the Project gives emphasis to the Broad Canal and increases the sense of connectivity to the Charles River.
The interaction between the building architecture and the roadway and pedestrian pathway networks provide opportunities to support local businesses through retail frontage and spillover, while creating spaces for relaxation and gathering, weaving the urban circulation network through the fabric of the City.

In an effort to be consistent with the existing and planned uses in Kendall Square and improve connectivity, certain uses included in the Project are located immediately adjacent to similar existing uses. For example, the adjacent uses to the east include two residential buildings at 303 Third Street and 350 Third Street. The Project has located residential uses nearest to these two buildings in order to strengthen the area as a residential district. Immediately to the west and south is the “MXD District”, which is characterized by high-density commercial buildings. To integrate with the existing built environment and development patterns, Building R1 is located along the existing commercial corridor of Third Street that includes buildings of varying heights, including some that are very tall. The Project has located Community Center Park adjacent to 303 Third Street to extend the planned open space and create a centrally located community benefit. Third Street Park will be located at the corner of Third Street and Broadway and will be a significant new public open space for the residents of 303 Third Street and 350 Third Street, as well as residents from the neighborhoods of Cambridge, to enjoy. The Project has located its high-density commercial buildings along Broadway as an extension of the existing uses in the MXD District. To the north is existing commercial development along Binney Street with the East Cambridge residential neighborhood beyond. Along Binney Street, the Project locates one mixed-use commercial building, of size and scale consistent with others along the corridor, and one residential building to reflect the transitional nature of this street.

b. 19.32 – Development should be pedestrian and bicycle friendly, with a positive relationship to its surroundings.

The Project will embrace the unique opportunity to knit the City together by providing north-south connections from the East Cambridge neighborhood to Kendall Square, and east-west connections to the Charles River. Sidewalks will be provided along the entire Site with safe pedestrian crossings at all internal and adjacent intersections.

The Project proposes to locate primary building entries along major streets (Broadway, Binney and Potter Streets) with service access provided from secondary streets. Largely transparent, active places will be located at the ground floor (including retail, restaurants, and other active uses), infusing significant street-level activity throughout the
Site. This active ground floor will contribute to the vibrancy of the district and foster a sense of security throughout the day and into the night.

Pedestrian circulation paths will follow sidewalks and crosswalks and lead to general entry locations for the proposed buildings. Significant planned pedestrian connections include those crossing Binney Street to the adjacent neighborhood, multiple connections across Third Street to the existing retail and commercial buildings, and connections to the south, crossing Broadway to Main Street. MIT’s South of Main campus the four existing Kendall/MIT MBTA Red Line headhouses. The pedestrian link through the Marriott hotel will remain and at-grade connections to it strengthened. On the west side of the Project, the Loughrey Walkway will remain an important pedestrian pathway along the edge of the Site.

Bicycle pathways through and around the Site will connect to the East Cambridge bike network and will establish connections to public transit lines and to Boston and Somerville. A combination of current and planned bike facilities – including bike lanes, cycle tracks and multi-use paths – will facilitate these connections. The project will add cycle tracks to Potter and Fifth Streets while Broad Canal Way and Kendall Way will be shared streets with limited vehicular traffic. Buildings will house indoor bicycle storage in compliance with City requirements and short-term outdoor bike parking areas will be located throughout the Project. The placement of outdoor bike racks will meet zoning requirements regarding distance from entries and offsets from other racks. Existing BlueBike Stations will be supplemented by two additional, new BlueBike docking stations and BlueBike valet, preliminarily proposed to be located along Broadway at the new Third Street Park and near the Community Center.

The Project is planned to include two underground garages: a north garage between Binney and Munroe Streets and a south garage between Potter Street and Broadway. Parking entrances are limited to four points within the Project (excluding the U.S. DOT Volpe Exchange Project), helping to reduce cross-circulation between pedestrians and vehicles. One garage entrance on Munroe Street is planned for the north garage and two garage entrances on Potter Street, and one garage entrance on Fifth Street are proposed for the south garage. Limited active curbs and on-street parking are anticipated along the proposed new streets, the specific locations of which will be finalized as part of the Design Review process. On-street parking currently exists as either public (Munroe Street) or private (Fifth Street and Potter Street). The Project does not propose to eliminate any of the existing on-street spaces on the north side of Potter Street. Private on-street spaces on the south side of Potter Street and the east side of Fifth
Street are proposed to be replaced by separated bike facilities.

c. 19.33 - The building and site design should mitigate adverse environmental impacts of a development upon its neighbors.

Overarching Project goals include the desire to increase connectivity between the Site and the surrounding City and to improve the quality, vibrancy, diversity and inclusiveness of the public realm through a network of open space. At the same time, future development must minimize adverse impacts on environmental comfort. The following describes strategies to minimize or mitigate any potentially adverse impacts of the Project.

MIT reduced the massing of Building R1 by approximately 25% from what was originally proposed to create a narrow tower in the north south direction, preserving views for the permanent residents of 303 Third Street who are located at the southwest and southeast corners of 303 Third Street. MIT relocated the Community Center in the base of R1 to free up the corner of Broad Canal Way and Fifth Street as open space (Community Center Park) alongside 303 Third Street.

Project buildings will be designed to meet the requirements of the City Noise Control Ordinance (General Ordinance No. 8.16). Primary elements that contribute to sound generation within an urban development project include mechanical equipment noise, building service and loading activities, and construction activities.

The future design of individual buildings will locate major mechanical equipment within enclosed roof-top mechanical penthouses and lower level mechanical service rooms, and appropriate sound attenuation measures will be incorporated to minimize the acoustic impact of this equipment.

Loading and service areas will be located off-street, at ground-level, internal to building footprints. Loading bays will not impinge upon adjacent sidewalk and roadway rights-of-way and service traffic will be managed to avoid adverse impact on local traffic circulation.

Construction activities associated with the individual buildings and site infrastructure (underground utilities, roadways, and public realm landscape and hardscape features) will temporarily create an increase in noise levels emanating from the Project. Those activities that are likely to generate the highest levels of construction noise include demolition, excavation and foundations. Primary noise-generating construction activities will be limited to daytime hours. The various construction projects (both building- and infrastructure-related) will develop a series of mitigation measures in collaboration with City officials.
The shadow study evaluates shadow impacts at the specific annual markers of 9:00 am, 12:00 pm and 3:00 pm on the Spring / Fall Equinox and on the Summer Solstice. The net new shadow falls on both public realm ground plane and on rooftops. Based on the shadow studies, the Project will create a degree of net new shadow consistent with an urban development project of this magnitude. The integration of the Community Center into R1 and the reduction of massing on R1 have reduced the impact compared to the original massing in the Development Proposal. Significantly, the shadow study supports the placement of a major civic park at the corner of Third Street and Broadway. In addition to being the most public corner of the Development Parcel, existing urban form and solar orientation combine to maximize the hours of direct sunlight on a public park at this location.

Urban street, sidewalk, pathway and landscape site lighting is critical to providing a sense of comfort, safety and security. A consistent, cohesive approach to illumination and fixture selection will contribute to the connectivity of the open space network within the public realm. Similarly, the interior illumination of active retail, dining and entertainment venues will increase transparency into those public uses, blur the edge between indoor and outdoor space, and heighten the sense of security and community identity well into the evening. Future building and site design must address these positive attributes while also mitigating light spill, avoiding light pollution, and conforming to applicable night-sky ordinances.

A quantitative pedestrian-level wind study of the Project build-out was conducted by RWDI utilizing wind-tunnel analysis. The assessment focused on critical pedestrian areas, including building entrances and public sidewalks. Wind tunnel analysis of the proposed building massing and landscaping indicated that wind conditions at grade-level on and around the Site are generally predicted to be similar to the existing wind conditions and suitable for the intended uses. The analysis included approximately 150 receptor locations. On an annual basis, no dangerous mean wind speeds were detected at any location and wind speeds rated comfortable for sitting, standing or walking are expected at all locations with the exception of a few building corners. Wind speeds at most building entrances are expected to be comfortable for sitting or standing on an annual basis, which is suitable for the intended use. Wind speeds near the entrance of Building C3 are expected to be uncomfortable, which is considered higher than desired for the intended use. This issue can be mitigated through design strategies including canopies or structures or by locating entrances further from the building corners or recessing them into building façades. These details will be addressed during the Design Review process for Building C3.
Wind speeds are predicted to meet the effective gust criterion on an annual basis, with the exception of the southwest corner of the US DOT Volpe Exchange Project near the service area. Seasonal exceedance of effective gust criteria is predicted at a few building corners during the winter. Minor revisions to the massing of the building corners can mitigate this effect, which revisions will be addressed as part of the Design Review process.

Urban heat island effects are to be mitigated with a hybrid approach. All new buildings will employ high albedo, green roof, blue roof, bio-solar, or solar panels, as applicable, to reflect heat and mitigate urban heat island effects in accordance with PUD-7 Zoning. During the building design phases, renewable energy systems for rooftops will be studied in line with Cambridge’s amendment to Article 22.30 Green Roofs to include for 80% of non-mechanical or non-occupied roof area, green roof or solar energy systems. During the building design process, MIT will determine if green roof or solar rooftop PV would be a preferred application. Site hardscape materials will be chosen for high SR/SRI values and permeability attributes. Outdoor spaces with vegetation such as canopy trees, pergolas, trellises, green walls, and other measures will be considered as means to reduce urban heat gain.

A Final Development Plan of the scale envisioned by the Project will inevitably have an impact on the existing urban tree inventory. While extensive measures will be taken to ensure the integration and preservation of healthy, mature existing trees (particularly within the new Third Street Park and the existing Loughrey Walkway), the planned streets, open spaces and buildings will require the removal of 117 private trees on the Volpe property and 11 street trees adjacent to the Site. To mitigate this tree loss, the Project proposes a robust planting plan that will add back approximately 221 new trees on the property and immediate surroundings for a net increase of 93 trees. The future tree canopy will be diverse and resilient and will provide long-term advantages in terms of greater carbon sequestration, stormwater management and air quality.

To respond to climate change and prepare for projected increases in precipitation, the Project embraces resilient design strategies including elevating mission-critical equipment, residential units, and all building ground floors above the projected 2070 100-year flood elevation; incorporating stormwater mitigation strategies; and providing standby power for mission critical equipment.

d. 19.34 – Projects should not overburden the City infrastructure services, including neighborhood roads, city water supply system, and sewer system.
An integrative sustainable design process will be utilized in future building design to ensure that best practices are employed in the design of exterior envelopes, building energy- and water-use systems, site planting, and site stormwater management systems.

As required under the PUD-7 Zoning, all proposed buildings within the Project must achieve at least LEED Gold certification. Construction practices and materials, interior and exterior lighting design, and daylight maximization will all contribute to the achievement of LEED Gold certification.

The Project has been Master Planned to maximize energy efficiency and support a path for a net-zero carbon future. The focus throughout the design process for individual buildings will be to drive down projected emissions, both in the manufacture of construction elements and in the long-term operation of the buildings. Residential buildings (40% of the development) will be all-electric, generating zero on-site emissions from fossil fuel, and commercial buildings will be designed with a path to electrification that would integrate with the long-term vision for a low-carbon power grid. Load sharing between complementary building programs will be explored to maximize heat exchange and optimize energy performance across the greater development site. Furthermore, the proposed on-site rooftop photovoltaic (PV) arrays, supplemented by procurement of off-site renewable energy, can offset the Project’s electricity use.

The Project will include one of only three blackwater treatment systems in New England, enabling 100% of all eligible building water to be treated and re-used on site, thereby reducing water demands and removing 240,000 - 250,000 gallons per day from the City’s sanitary sewer system. The collection, treatment, and reuse of all available greywater and blackwater in three phased district blackwater treatment plants will minimize potable water consumption, improve self-sufficiency of the district, and mitigate the impact of the Project on regional sewer systems.

To respond to the changing climate and prepare for projected increases in precipitation, the Project will embrace resilient design strategies including elevating mission-critical equipment, residential units, and all building ground floors above the projected 2070 100-year flood elevation; incorporating stormwater mitigation strategies; and providing standby power for mission critical equipment. To minimize risks associated with projected temperature increases, the Project will aim to reduce urban heat island effect through high-albedo roofing and paving and minimize cooling loads by insulating and shading building facades.
e. 19.35 – New construction should reinforce and enhance the complex urban aspects of Cambridge as it has developed historically.

The introduction of active ground floor uses on multiple sides of the proposed new buildings, such as retail, entertainment and maker spaces, will energize each block, engage with the surrounding neighborhood and be specific to Kendall Square and East Cambridge. By planning for a diverse mix of residential, lab and office, retail and community uses, the Project will become an integral part of the community.

The Project is consistent with the Special Requirements of Section 13.96.3 which requires an area equal to at least 5% of the office space contained within major new office buildings as Innovation Space, either within the development or in the vicinity, and subject to the area and lease duration limitations set forth in the PUD-7 Zoning. MIT has committed to the inclusion of substantial innovation space dedicated to small business incubators and entrepreneurs, which will encourage local residents to participate in the local innovation economy and foster the cross-disciplinary interaction that has made Kendall Square famous. The Innovation Space will be located in at least two (2) of the commercial buildings. Innovation Space in any one building shall measure at least 20,000 square feet.

The inclusion of up to 100,000 SF of largely transparent, active places of public accommodation, located at ground level (including retail, restaurants, and other active uses) will infuse significant street-level activity throughout the Site and serve to blur the boundary between inside and outside, thereby energizing both. Ground floor retail and active uses are an integral component of the Project. They will contribute to the vibrancy and inclusiveness of the district, will foster a sense of security throughout the day and into the night, and will provide venues for both planned and serendipitous social and intellectual interaction to occur. By focusing on small, local, independent retail businesses, the sense of community and of connectivity to greater Cambridge will be amplified.

f. 19.36 – Expansion of the inventory of housing in the city is encouraged.

Consistent with the PUD-7 Zoning, at least 40% of the GFA included in the Project is devoted to residential use. This equates to approximately 1,400 units of new housing located throughout the four residential buildings. Twenty percent (20%) of the net residential unit square footage of each building will be designated as affordable. The Project also includes 20 middle-income units that will be affordable to eligible renters with incomes of 80% to 120% of the Area Median Income. The Project will include three-bedroom units to encourage
families to live in the district. In addition, 5% of the net square footage of the net residential unit square footage is devoted to Innovation Units, defined as 350 to 450 SF, to further assist with affordability and diversity of housing on the Site. MIT will work with the City’s Housing Division to determine the distribution of inclusionary housing, middle-income, and Innovation Units.

The location of residential parcels between Potter Street and Broad Canal Way and at the corner of Binney and Third Streets will establish relationships of use and scale to neighboring residential buildings, most importantly the 303 Third Street residences.

In terms of scale, urban presence and adjacency to proposed green space, housing will have a major impact within the Project. The inclusion of affordable and middle-income housing will ensure that the residential nature of the Project will relate to an appropriately broad cross-section of the Cambridge population.

g. 19.37 – Enhancement and expansion of open space amenities in the city should be incorporated into new development in the city.

The Project’s highly interconnected and differentiated network of public realm spaces—its streets, squares, parks, and courts—constitute the Project’s fundamental organizing principle. It maximizes permeability for pedestrians, cyclists, workers, residents and neighbors. It emphasizes both solar exposure and the development of a long-term urban tree canopy throughout.

In direct response to community input, the Third Street Park, a major urban park, will be located at the most public corner of the Project—with streets on three sides, thereby underlining its public accessibility and its location at the southeast corner to maximize its solar exposure. Linear open spaces at the Sixth Street Park and Volpe Art Lawn (proposed as part of the US DOT Volpe Exchange Project) will connect Binney Street to Broadway and East Cambridge to Kendall Square. This series of significant open spaces establishes a network that permeates the Site while being intentionally open along the perimeter – at Third Street Park, at Sixth Street Park and at Volpe Art Lawn – thereby creating urban green space that is openly shared with neighboring buildings and streets.

The streets, courts, and squares will support a wide range of outdoor uses, and they will be enlivened by pedestrian-oriented functions located in the ground floors of the surrounding buildings. For example:

- **Third Street Park** will promote communal gathering and individual respite from the activity of the surrounding City. The space is

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10 The federal government has proposed that the Volpe Art Lawn will be open to the public. However, although MIT is planning to complement this space, it is important to note that MIT will not control the Volpe Art Lawn or any other space within the Government Owned Land.
to be designed for flexibility and resiliency, adaptable to the changing needs of future generations while promoting environmental stewardship. Flexible in nature, the space will accommodate large gatherings while still feeling comfortable for smaller groups.

- **Sixth Street Park** is to expand the tree-lined allée of the Loughrey Walkway to create an enhanced park that will host a varied set of recreation and casual leisure spaces that serve the nearby neighborhoods and broader community. It will be designed for programmed activities to serve the needs of the community, such as children’s play spaces, a dog run, 3-on-3 basketball, or passive respite.

- **Community Center Park** will be adjacent to the Community Center and will provide space for related activities including recreation for residents, families, seniors, outdoor classroom activities, and flexible space for entertainments and games. Its location diagonally across Broad Canal Way from the Third Street Park will enable the two spaces to work together for larger community events.

- **Binney Street Pocket Park** is located between Binney Street and Munroe Street and will host shared community amenities and a protected tot lot for families and neighbors, as well as short-term bicycle parking.

- The **Broad Canal Way** extension will create a vibrant, pedestrian-oriented destination. Canopy trees and catenary lighting will provide a ceiling for the street, bringing the scale down to pedestrian life. The multi-modal nature of Broad Canal Way will be integral to Third Street Park. As a paved, pedestrian-focused zone immediately south of the retail frontage of Building R1, it will act as both terrace and promenade, blurring the edge between inside and outside.

These spaces will create a varied yet continuous public realm that gives the Project permeability, porosity, strong view corridors, and a palpable and unique place identity. The Project’s streets, squares, and parks will be wholly public in use and character.
4. CONSISTENCY WITH PLANNING DOCUMENTS
4. Consistency with Planning Documents

In the Introductory paragraph to Section 13.91 of the PUD-7 Zoning, the CZO states that:

“Development should be generally consistent with the policy objectives set forth in the then current Kendall Square (“K2”) Planning Study and Design Guidelines (2013), The Planning and Design Principles established by the City’s Volpe Working Group (2017) and Volpe Site Design Guidelines (2017), collectively, the “PUD-7 Guidelines and Principles.”

This Section documents the consistency between the Project, as described in this Application and the related graphics, and those documents the PUD-7 Guidelines and Principles. The consistency of the Project with each constituent document comprising the PUD-7 Guidelines is taken, in turn, below.


As set forth in the Kendall Square Final Report (2013), the vision of the Kendall Square Planning Study was to create “[a] dynamic public realm connecting diverse choices for living, working, learning, and playing to inspire continued success of Cambridge’s sustainable, globally-significant innovation community.” The Final Report indicated that in order to realize that vision, developments in Kendall Square should further the following four goals:

Goal 1: Nurture Kendall’s Innovation Culture;
Goal 2: Create Great Places;
Goal 3: Promote Environmental Sustainability; and
Goal 4: Mix Living, Working, Learning and Playing.

The Project will continue the successful implementation of these goals in the PUD-7 District by creating a destination for shared discovery, community, and collaboration. The Project promises a diverse, inclusive, and equitable urban environment that connects arts and science, that nurtures and inspires, and that connects people and events.

In addition, the Kendall Square Final Report provided specific recommendations for zoning, transportation and infrastructure. The specific ways in which the Project will implement measures to reach the stated goals and address the above recommendations are set forth below.

A. Nurture Kendall’s innovation culture

Find ways to expand opportunities for Kendall Square’s knowledge economy to continue to grow by fostering the existing creative interaction and through creating a livable, sustainable, mixed-use environment.

The Project’s proposed mix of uses, including retail and restaurant, community space, lab, office and residential, the network of open spaces and the
continuity of the local street pattern will all serve to increase connectivity within Kendall Square and East Cambridge.

Recognize that all aspects of the vision for Kendall Square need to work together if the innovation culture is to realize its full potential.

Multiple components of the Project will work in concert to foster the success and growth of the innovation ecosystem of Kendall Square. Among these are the urban permeability of the street and block network as it connects to the fabric of nearby neighborhoods; and the mix of research, office, residential, retail, and community uses that will enliven the district at all hours and encourage connectivity outside of the immediate site. Perhaps most importantly, the inclusion of meaningful community space and the Job Connector will provide opportunities for diverse demographic groups to mix and have access to the jobs created by the innovation economy in Kendall Square. By creating a living, integrated, mixed use community, the Project is integral to both sustaining and advancing the innovation culture that is so central to the experience of Kendall Square and Cambridge as a whole.

Retain and expand incubator spaces for entrepreneurs.

The proposal is consistent with the PUD-7 Zoning requirements contained in of Section 13.96.3, which require a minimum area of Innovation Space equal to at least 5% of the aggregate office and laboratory space contained within new buildings, either within the Project or within 1.5 miles of the Site, and subject to the area and lease duration limitations set forth in Section 13.96.3(b). MIT has committed to the inclusion of substantial Innovation Space dedicated to small business incubators and entrepreneurs, which will encourage the cross-disciplinary interaction that has made Kendall Square famous.

B. Create great places

Improve [the] existing public realm of the Square and create new open spaces and recreational facilities in tandem with future developments to create [a] comprehensive public realm.

The varied size, scale, and type of open spaces distributed throughout the Project and described in detail in this Master Plan submission will provide an intentional mix of civic experiences - from busy urban streets, to wide tree-lined streets, to the dense tree canopy of a linear urban passageway, to the perimeter landscape of the US DOT Volpe Exchange Project, to public parks. The variety of these urban space types will contribute to the permeability and urbanity of East Cambridge. They will encourage residents, neighbors, and visitors to linger, relax, recreate, and to simply enjoy walking through an urban setting.
Engage buildings and streets to create lively public places.

The Project relies on two fundamental tenets to enliven its streets and public places. First, buildings will largely be built to the urban build-to line, establishing a continuous streetwall that connects the Site to the surrounding neighborhood. Second, the inclusion of up to 100,000 SF of largely transparent, active places of public accommodation, mostly located at street-level (including retail, restaurants, and other active uses) will serve to blur the boundary between inside and outside, thereby energizing both.

Enhance connections to the Charles River, especially at Broad Canal.

The Project breaks up the existing unwelcoming and inaccessible block, creating pedestrian, cyclist, and vehicular passage through the Site. The extension of Fifth Street from Broadway to Binney Street links the East Cambridge neighborhoods to the north and west through the Site and to the open space south of Main Street and through to the River. The extension of Broad Canal Way to Loughrey Walkway and Kittie Knox Bike Path links pedestrians and bicycles east to the Charles River, one of the most important visual and recreational assets in the City.

Reintegrate Kendall/MIT station entries more effectively into their urban context.

The two primary Kendall/MIT MBTA Station entrances will be extensively renovated in connection with Boston Properties’ MXD development (the north entry) and by MIT (the south entry) in order to update the entrance to the station immediately adjacent to the open space recently opened by MIT as part its Kendall Square Initiative, both of which are outside of the scope of this Project.

Develop wayfinding strategy to help orient people to the Square and its surroundings.

While specific graphic wayfinding strategies are typically developed much later in the design of a project of this scope, the street and open space network has been very carefully calibrated to connect to existing, understood street patterns and to provide frequent views to recognizable local streets, landmarks, and urban nodes in order to contribute positively to a sense of place and a sense of location.

Support open space needs of a growing district.

The Project’s highly interconnected and differentiated public realm is designed to support a wide range of outdoor uses. Enlivened by the ground floor of the buildings, and enhanced by inclusive public programming, the open space shall be wholly welcoming in use and character.
C. Promote environmental sustainability

Acknowledge and build upon Kendall Square’s potential as a compact, transit-oriented development in order to create [an] environmentally-sustainable district.

As a mixed-use project, the Project promotes sustainability in the urban context to support a thriving community of workers, residents, and visitors. By providing connections with Cambridge neighborhoods and varied amenities on-site, the development transforms the Kendall area into a destination that serves as an educational and regional model of how sustainable master plans can integrate into existing urban contexts and promote collaboration, engagement, and diversity.

The proximity of the Project to the Kendall/MIT MBTA Red Line headhouses supported by new proposed permeability and pedestrian connections through the Site will naturally promote transit-oriented development. The Project includes new cycle tracks, bicycle parking spaces and BlueBike stations to promote alternative transportation. The project also contains fewer parking spaces than the maximum that would be allowed under the already low ratios allowed in the CZO. The amount of green open space proposed will contribute significantly to environmental considerations such as shade and storm water management. The Project will achieve leadership in sustainability through a number of strategies including zero on-site emissions from fossil fuels in the residential buildings. The development will include the largest urban district-scale blackwater treatment plant in the northeast to reuse all building water on-site.

Social equity has been a fundamental driver of the Volpe development design. MIT is exploring equity metrics to benchmark success of an inclusive design process, construction process, and ultimately, a diverse, welcoming neighborhood. Some of these may align with LEED Innovation credits or other equity benchmarking systems.

Incorporate significant sustainability elements through land use planning approach.

The inherent density of the Project and its close proximity to the Kendall/MIT MBTA Station jointly establish an intelligent, sustainable land use planning approach. The amount of landscaped open space proposed within the Project will move it past smart land use planning to effective environmental stewardship.

Continue to require green design for buildings and site design.

All buildings within the Project will achieve a minimum of LEED Gold certification. An integrative sustainable design process will be utilized to ensure that best practices will be employed in the design
of exterior envelopes, building energy- and water-use systems, site planting, and site storm water management systems. Construction practices and materials, interior and exterior lighting design, and daylight maximization will all contribute to the achievement of LEED Gold certification. In terms of water conservation strategies, the Project will include one of only three blackwater treatment systems in New England, enabling 100% of all eligible building water to be treated and re-used on site – thereby preventing approximately 240,000 - 250,000 gallons of wastewater per day from flowing into the City’s sanitary sewer system.

**Go beyond existing approaches to more sustainable design.**

There are several key strategies that establish the Project as an exemplar of sustainable design. First, the Project includes a significant urban district-scale blackwater treatment plant to reuse all eligible building water on site. Second, the construction of all-electric residential buildings (approximately 40% of the development GFA) will have zero on-site emissions from fossil fuels to support a net-zero carbon future. Third, the Project also establishes a pathway for getting to all-electric commercial buildings and will evaluate each building against this pathway as it approaches the Design Review phase.

In addition, the Project design strives to enhance community engagement by activating the street-level with community services and publicly-accessible open space. In addition to sustainability design elements, the Project includes resiliency design elements such as raising the finished grade of the entire Development Parcel to the 2070 100-year flood elevation.

In addition to committing to offset the entirety of the Volpe development’s remaining operational carbon emissions annually, MIT has made a commitment to offset all remaining embodied carbon from construction of the development.

Collectively, these exemplary strategies distinguish the Project from regional peers and build upon sustainable commitments for site, transit, resiliency, and healthy building design.

**Create K2 EcoDistrict through public-private partnership**

MIT remains engaged in the Kendall Square Association EcoDistrict Committee which was initiated in 2016 to continue the work of the City’s prior EcoDistrict research. The committee is a learning community which provides a forum to collaborate and enhance knowledge and skills in the sustainability realm. Committee work to date includes programming on various sustainability subjects and collaboration with City staff in workshops such as BEUDO and energy rebate programs. MIT’s sustainability awareness and
engagement are informed by participation in this learning community as well as ongoing external/community education efforts on the collective benefits of sustainability.

D. Mix living, working, learning playing

*Focus density and intensity around transit to continue the positive mix of uses in Kendall Square, while minimizing development pressures on nearby neighborhoods.*

A diverse mix of retail, residential, commercial, community, and recreational use will extend the activity, security, and urban vibrancy of both the immediate Site and the broader community throughout the day, week, and year.

**Encourage a significant presence of housing integrated with other uses.**

Consistent with PUD-7 Zoning, 40% of the proposed non-exempt GFA will be for residential use, providing approximately 1,400 new residential units, of which 20% of the net residential unit square footage will be affordable dwelling units and 5% will be Innovation Housing units. Twenty of the residential units will be middle-income units that will be affordable to eligible renters with incomes of 80% to 120% of the Area Median Income. The Project will include three-bedroom units to encourage families to live in the district. In terms of scale, urban presence, and adjacency to proposed green space, housing will have a major impact within the overall development. The Inclusionary Housing provisions will ensure that the residential nature of the Project will relate to an appropriately broad cross-section of the Cambridge population.

**Create room for research and technology businesses to locate and grow.**

The Project accommodates commercial buildings that will meet the needs of current and future laboratory research and technology-focused businesses. In addition to furthering the innovative ethos of Kendall Square, the inclusion of substantial innovation space dedicated to small business incubators and entrepreneurs will encourage the cross-disciplinary interaction that has made Kendall Square famous. The Project will enhance Kendall Square as a thriving, transit oriented district with proximity to the MBTA Kendall Square transit stop, four new parks and active street life, all of which are elements attractive to business making location decisions.

**Add retail to create active ground floors and animate the streetscape.**

Ground floor retail and active uses are an integral component of the Project. They will contribute to the inclusivity and vibrancy of the district, foster a sense of security across many hours of the day and into the night, and provide venues
for both planned and serendipitous social and intellectual interaction to occur. By focusing on small, local, independent retail businesses, the sense of community and of connectivity to greater Cambridge will be intensified. The commitment to provide up to 100,000 SF of active places of public accommodation at ground level will infuse significant street-level activity throughout the Project and attract a broad range of users to the district.

E. Recommendations for Zoning

As more specifically set forth in Section 3 of this Application, the Project conforms to PUD-7 Zoning. The PUD-7 Zoning was adopted in 2017, following the adoption of the Kendall Square Final Report and, as noted above, requires general consistency with the general objectives of the Kendall Square Final Report.

Building Design Standards

As more specifically indicated in Section 3 of this Application, the Project conforms to the specific PUD-7 Zoning requirements and the general zoning recommendations contained in the Kendall Square Final Report, including:

• The incorporation of active ground floors;
• Ground floor retail activation, in particular along Broadway, Third Street and Broad Canal Way;
• Building heights of up to approximately 250 feet for commercial buildings (with the potential for increased height in accordance with Section 13.93.4(c)(2)) on the southern area of the Site and 170 feet on the northern area of the Site;
• Building heights of up to approximately 250 feet for residential buildings, with residential height increases to greater than 350 feet but less than 500 feet at a maximum of one building up to 500 feet within the southern area of the Project, all as further defined within Section 13.93.4; and
• Zoning envelope stepbacks and upper floorplate size limitations that are generally consistent with the Volpe Design Guidelines, adopted in 2017 and discussed below.

Project Review and Design Guidelines

This Application presents the Project at the Master Plan level in conformance with PUD-7 Zoning. The buildings and open spaces will be subject to further Design Review. The buildings and open spaces will be designed in conformance with the Design Guidelines that will be approved as part of the Final Development Plan Special Permit.

Parking

MIT is committed in supporting the City’s goal of lowering single occupant vehicle (SOV) trips to/
from the Cambridge area by not overbuilding parking and by taking advantage of exceptional transit and walking/biking options around the Project. As requested in the City’s Traffic, Parking and Transportation Department (TPTD) Scoping Determination for the TIS, three different methodologies for parking supply/demand analysis were explored: parking supply per PUD-7 Zoning, parking demand by employee density, and a shared parking demand analysis.

The concept of shared parking recognizes that peaking for different land uses occurs at different times. Instead of building parking to support each individual land use’s peak demand, the Project supplies enough parking to support the entire Site’s peak parking demand, assuming that each land use will draw from a common parking supply.

Taking into consideration the shared parking approach for the Project, MIT is projecting a parking demand of up to 1,759 parking spaces, where up to 2,484 spaces would be permitted in support of the uses planned for the Project based on the parking maximums set forth in Section 13.95.4, which maximums are consistent with the maximums set forth in the Kendall Square Final Report.

The full parking analysis can be found in the Project’s Transportation Impact Study (TIS) certified by the City and included here in Volume 4.

**Sustainability**

Consistent with City zoning and sustainability initiatives, the Project is designed in accordance with Section 13.96.4 and will satisfy the requirements of Article 22.000.

As required under the PUD-7 Zoning, the buildings shall achieve a minimum of LEED Gold certification. As a part of the Project’s Master Planning process, MIT is exploring district energy heating and cooling systems as well as individual building and site-level energy conservation measures. The district system analysis includes the evaluation of potential on-site energy generation within the PUD-7 District.

In addition, MIT continues to enthusiastically engage in the City’s numerous ongoing sustainability initiatives such as the City’s Net Zero Action Plan. The Project’s approach to energy is consistent with the goals and objectives of the City.

As an active and engaged member in City committees and initiatives, MIT is committed to exceeding local energy standards by incorporating a whole system, integrated approach and to continually revise and reevaluate design strategies to stay at the forefront of technical developments and improve environmental performance. Energy efficiency and resource conservation are at the heart of the sustainability framework developed
for the Project and will remain a focus for MIT moving forward.

Housing

At least 40% of the GFA included in the Project is devoted to residential use. This equates to approximately 1,400 units of new housing located throughout the four residential buildings. Twenty percent (20%) of the net residential unit square footage of each building will be designated as affordable. The Project also includes 20 middle-income units that will be affordable to eligible renters with incomes of 80% to 120% of the Area Median Income. The Project will include three-bedroom units to encourage families to live in the district. In addition, 5% of the net square footage of the net residential unit square footage is devoted to Innovation Units, defined as 350 to 450 SF, to further assist with affordability and diversity of housing on the Site. MIT will work with the City’s Housing Division to determine the distribution of inclusionary housing, middle-income, and Innovation Units.

Community Investments

In addition to the Project-related benefits of new road connections, over 3.5 acres of Publicly-Beneficial Open Space, approximately 1,400 units of housing and the Community Center, MIT has made the following financial commitments:

- Approximately $36 million to the Affordable Housing Trust for commercial linkage payments;
- Approximately $8.5 million for transit improvements to reduce vehicular traffic;
- Approximately $8.5 million to the Community Fund to be distributed to Cambridge non-profits; and
- Approximately $23 million in new taxes annually once the project is built out.

At the time of the adoption of PUD-7 Zoning, MIT also made significant additional commitments to improving transportation, housing and equity in Cambridge.

Startup Innovation Space

The Project is planned to include up to 167,326 SF of Innovation Lab/Office Space, which will total 10% of the non-exempt office and laboratory GFA of the Project. MIT will ensure that the Innovation Office Space satisfies the requirements of Sections 13.96.3(a)(2) and 13.96.3(b)(1)-(4) as it develops and leases up the same.

F. Recommendations for Transportation

MIT is committing to the following transportation mitigation measures to support the Project:
• Two 27-dock BlueBike stations
• Space for a BlueBike valet
• Bike fixit stations in bike room and near clusters of short-term bike parking
• Complete 100% design plans and reconstruction of both sides of Binney Street between 6th St and Third St
• Design and construct Binney Street / Fifth Street intersection with turn lanes, crossings and signalization (if warranted)
• Design and construct separated bike lanes on Fifth St between Binney Street and Broadway
• Design and construct ped/bike connection from Potter St to Kittie Knox Path/Loughrey Walkway
• Share the cost of completing 100% design plans and reconstruction of Broadway (including both sides of Broadway between Ames Street and Third Street)
• Design and construct a pedestrian crossing near the intersection of Broadway / Kendall Way / Green Garage Signalize with RRFB
• Design and construct left turn lane from Broadway to Fifth Street (include signalization if warranted)
• Design and construct crossing for improved connection to Kendall Sq T Station; Signalize with RRFB
• Upgrade traffic signal equipment at Binney St./Third Street intersection to accommodate cycle tracks
• Reconstruct Munroe Street between Fifth Street and Third Street
• Share the cost [with BioMed] of completing 100% design plans and reconstructing Third Street between Binney Street and Broadway
• Design and reconstruct separated bike lanes on Potter Street between Third Street and Volpe GSA driveway
• Install a new traffic signal at Potter Street/Third Street intersection, including dedicated northbound left lane on Third Street and crosswalks at approaches
• Install crosswalks and signage at intersection of Third Street at Broad Canal Way
• Upgrade traffic signal equipment at Broadway/Third Street intersection to accommodate cycle tracks
• Development of a Parking and Transportation Demand Management (PTDM) Plan.

11 Subject to the receipt of any necessary rights from the owners of 303 Third Street.
Enhanced TDM: Priority Recommendations for Reducing Drive-Alone Rates

MIT will support a program of transportation demand management (TDM) actions to reduce automobile trips generated by the Project. The goal of the Project’s TDM plan is to reduce the use of SOVs by encouraging carpooling and vanpooling, bicycling, walking, and increased use of the area’s public transportation system by employees and visitors. MIT TDM plan, submitted to the City on January 20, 2021, has been reviewed by the City’s PTDM officer, and MIT is in the process of making revisions in response to the input that was provided.

MIT will work with tenants of the new buildings to join the Charles River Transportation Management Association and implement effective TDM strategies described below.

Parking Strategies

Due to the long buildout time of the Project, no detailed parking management system can be proposed at this time; however, the intent is to manage both garages with state-of-the-art access technology.

Tenants of the office/R&D and retail/active uses will be provided with a fixed number of passes. If the garage reaches capacity for either user group, the gate system will alert the driver that they are not permitted to park in the garage. Market parking rates will be charged for users and determined at a later date. Residential parking will be leased separately from each residential unit.

It is anticipated that a very limited number of short-term on-street parking spaces will be made available as part of the construction of Fifth Street between Potter Street and Broadway. Additionally, flexible curb space is being proposed on Broadway between Ames Street and Third Street, Fifth Street between Potter Street and Broadway, and on Broad Canal Way between Kendall Way and Third Street in order to provide space for transportation network companies ("TNCs") to drop off/pick up passengers and for short-term loading. The exact location of such zones and appropriate signage will be coordinated with TP&T at a later date.

In addition, MIT is currently working with the owners of the existing parking garage situated below the residential condominium buildings at 285 and 303 Third Street (the “303 Third Parking Garage”) to enter into a lease, license or other occupancy agreement to allow up to 250 parking spaces within the 303 Third Parking Garage to be utilized by the Project. In the event that MIT enters into such an arrangement with regard to the 303 Third Parking Garage, the approved number of parking spaces to be constructed for the Final Development Plan will be reduced by the number of parking spaces that are the subject of such an agreement without the need for further review or
Better Vehicular Traffic Management

MIT is committing to the transportation mitigation measures to support the Project as described in Section F above:

Enhance Pedestrian and Bicycle Pathway Network

The Project aims to provide a once in a lifetime opportunity to bring the community together by providing north-south connections from nearby neighborhoods to the Kendall/MIT MBTA Station, and east-west connections to the Charles River. Sidewalks will be provided throughout the Site with safe pedestrian crossings at all internal and adjacent intersections.

The Project will include cycle tracks on Fifth Street and Potter Street, and MIT is coordinating with the City on additional facilities on adjacent streets.

Enhancing Transit Options

As stated in the October 23, 2017 Commitment Letter that accompanied the ordination of the PUD-7 Zoning, MIT will provide $8.5 million for the design and construction of the Grand Junction multi-use path as well as conveyance of access rights along MIT property to enable its construction.

Additionally, as stated in PUD-7 Zoning, 50% of any Kendall Square Fund contribution (approximately $8.5 million) shall be allocated for transit improvements and services to benefit the Kendall Square district and residents in adjacent neighborhoods not already required by the City’s PTDM Ordinance.


The Volpe Working Group adopted overarching principles for the purposes of furthering the goals of creating:

- A unique place that is memorable, delightful, comfortable, inviting, and sociable;
- A center of gravity, the heart of Kendall Square, an “exclamation point” for Cambridge, and a home for community events and gatherings; and
- A place that is organized and given identity by the form and activity of its civic spaces – its streets, squares, and parks.

The Project will create a destination for shared discovery, community, and collaboration. The mixed-use development promises a diverse, inclusive, and equitable urban environment that connects arts and science, that nurtures and inspires, and that connects people and events. In its planning, MIT has embraced the Volpe
Working Group’s Planning and Design Principles as indicated more specifically below.

A. Planning Principles

A successful urban development plan equally celebrates buildings and urban open space. Buildings in which people live, work, and play should be graceful, elegant, and welcoming in themselves, and should contribute to the grace, elegance, and welcome of the streets, squares, plazas, and parks whose edges they define.

Civic Life

Create beautiful, legible, varied, and welcoming public places that support and symbolize community, bring together a diverse range of demographic groups, as well as attract community members and visitors to share in the unique experience of Kendall Square.

The varied size, scale, and type of open spaces distributed throughout the Project will provide an intentional mix of civic experiences - from busy urban streets, to wide tree-lined streets, to the dense tree canopy of a linear urban passageway, to the perimeter landscape of the US DOT Volpe Exchange Project, to public parks. The variety of these urban spaces will contribute to the permeability and urbanity of East Cambridge. They will encourage residents, neighbors, and visitors to linger, relax, recreate, and to simply enjoy walking through an urban setting.

Connectivity & Permeability

Make the Volpe Site an integral part of the urban fabric of Cambridge and an interconnected piece of the existing network of public spaces, buildings, and neighborhoods.

By establishing a block size and street pattern that is responsive to the existing street grid, the Project will weave seamlessly into the urban fabric of Cambridge. Street widths, open spaces, building scale and the mix of residential and commercial uses will all serve to connect future development to the communities of East Cambridge, Wellington-Harrington, The Port, and MIT to the Kendall Square MBTA Station, public amenities, the Broad Canal, open space, and the waterfront.

Through this Project, MIT is committed to identifying and removing barriers to participation so that everyone can exercise the right to fair and respectful access to economic, social, and cultural opportunities, paving the way for equitable outcomes. In addition to its typical comprehensive community process, MIT ran an unprecedented equity and inclusion engagement process. The process ultimately engaged over 450 individuals from diverse demographic backgrounds on key topics areas. MIT hired equity and inclusion consultant Roosevelt Smith to bring objective and critical thinking to the process. The seven workshops focused on Housing Equity, Retail
Equity, Equitable Community Center, Retail Equity, Employment Equity, Open Space Equity and Youth Engagement. The feedback received in these workshops informed the evolution of the Project as described in this Development Plan and will continue to be considered and enhanced as the Project progresses.

Activation

*Provide a mix of commercial, residential, retail, recreational and other uses that are engaging and flexible, supporting an active public realm throughout the day, week, and year.*

The proposed extent and location of over 3.5 acres of Publicly-Beneficial Open Space, combined with significant retail and active use areas targeted toward small, local businesses and the combination of commercial and residential buildings will all serve to activate the Site by providing enjoyment, recreation, and security to residents, neighbors, and visitors throughout the day, week and year. Various venues for gathering, the arts, entertainment, recreation, and innovation will create a place that fosters community and creates new social and economic opportunities. A range of open spaces will offer places for year-round gathering, play, socializing, and respite in inclusive, diverse, and attractive settings.

Inclusiveness

*Optimize the built environment to make the site attractive and welcoming to people of all ages and backgrounds, with a particular focus on families with children and nearby residents who are at risk of being excluded from the innovation economy.*

Diverse housing options, consumer services, recreational amenities, multicultural programming, and engagement among different demographic groups will draw a broad range of community members and provide opportunities for companies and others in the innovation economy to reach out and provide benefits to the broader public.

Multiple aspects of the Project contribute to the principle of inclusiveness. These include the construction of approximately 1,400 new residential units (including approximately 20% affordable housing units, 20 middle-income units, and approximately 5% Innovation Housing units); the provision of significant ground floor retail space targeted at small, local, and minority-owned businesses; and the introduction of a street grid that, by virtue of its block size and alignment with nearby neighborhood streets, will be woven into the City fabric. In addition, MIT’s Jobs Connector program is already creating pathways for local residents to participate in Kendall Square’s innovation economy.
Comfort

Make spaces that feel friendly and inviting at the pedestrian scale so that residents, employees, and visitors will feel welcome.

Comfort comes in many forms: the safety of walking through a community lit up by retail shops and restaurants, the extended day created by a mix of commercial and residential occupants, a park bench in the sun, to a shady street to walk along. The mix of uses and variety of landscaped spaces and street types proposed will all extend a sense of welcome to residents, neighbors, and visitors.

Public pathways, recreational spaces, and gathering areas will range in scale from intimate to grand, offering niches for individuals, small groups, and large gatherings. In addition to outdoor open spaces, covered interior spaces will contribute to the quality and liveliness of the public realm, and will connect to adjoining open spaces.

Multiple design elements will contribute to environmental comfort. The Project mitigates the urban heat island effect by eliminating hundreds of surface parking spaces and locating the majority of the new parking below-grade. Building massing and landscape planting will create comfortable wind conditions at street level. More than 200 new trees will be planted; the canopy from these trees will further temper the pedestrian environment.

Sustainability

Develop the site to be an example of how the city will evolve and sustain itself into the future, particularly by mitigating and adapting to climate change.

MIT commits to designing all Project buildings to achieve LEED Gold certification. An integrative sustainable design process will be utilized to ensure that best practices will be employed in the design of exterior envelopes, building energy- and water-use systems, plantings, and storm water management systems. Construction practices and materials, interior and exterior lighting design, and daylight maximization will all contribute to the achievement of LEED Gold certification.

Resource conservation, stormwater management, and designing for future climate impacts drive planning level sustainability strategies. Collection, treatment, and reuse of all available greywater and blackwater in a phased district blackwater treatment plant will minimize potable water consumption, improve self-sufficiency of the Project, and mitigate the impact of the development on municipal sewer systems. To respond to the changing climate and prepare for projected increases in precipitation, the Project will embrace resilient design strategies including elevating mission-critical equipment, residential units, and all building ground floors above the projected 2070 100-year flood elevation. The project incorporates
stormwater mitigation strategies and will provide standby power for mission critical equipment. To minimize risks associated with projected temperature increases, the Project will aim to reduce urban heat island effect through high-albedo roofing and paving, and minimize cooling loads by insulating and shading building facades.

B. Design Principles

Buildings and urban open space jointly define the quality and character of the public realm of cities. They are the specific built manifestation of the planning principles articulated above. The public realm of a City becomes inviting and welcoming when its buildings and open spaces exist in equilibrium, each contributing equally to the definition and charm of the other.

Site Design

The site’s buildings should frame the spaces of the public realm. The spaces and connections established by the site’s civic structure are reinforced by the facades, massing, and design of the buildings that frame them.

The Project’s open spaces are all located and planned to engage the greater Kendall Square and East Cambridge community. Significant green spaces will lead people into and through the Site, taking advantage of both sun and shade. Building locations and orientations and a human, walkable block size will all frame the open spaces and extend the invitation to the public to enjoy the green space network.

The Conceptual Activation Plans for South of Potter Street and North of Potter Street illustrate this simple planning principle: primary pedestrian building entrances address major east/west streets – Broadway (for commercial entrances) and Potter Street (for residential entrances) and Binney Street (for both commercial and residential) and for seven of the eight major building footprints, service access is located on a perpendicular street or opposite street – Kendall Way, Fifth Street or Munroe Street. The only exception is Building R1 where the pedestrian entrance and service access are both located on Potter Street. This strategy will minimize truck activity on Broad Canal Way, which will have numerous entrances for retail establishments and other Active Uses.

Open Space Types

The open spaces that constitute the site’s public realm should invite a variety of people and activities to the site by offering a wide variety of possibilities for use and enjoyment.

Varied in size and character, the Project’s parks, squares, and plazas provide opportunities for active and passive use for a diverse population. A new one-acre park at the northwest corner of
Third Street and Broadway provides for the flexible use for large gatherings while its periphery is supported by active retail and food and beverage. Sixth Street Park and Community Center Park will provide spaces for active and programmed uses, as well as informal use. Binney Street Pocket Park will be a more intimate space that may include a play space for children. These varied open spaces are distributed throughout the Site, located to take advantage of adjacencies and create a highly-connected network that draws people into and through the Site.

The Project’s open spaces will be mixing zones for diverse social activity. Importantly, all of the open spaces are adjacent to publicly accessible pedestrian sidewalks and streets, making them open and accessible to all. Research on successful urban spaces reveals several consistent characteristics of welcoming, inclusive places:

- **Accessibility** – The Project’s primary open spaces – Third Street Park, Community Center Park, and Sixth Street Park – are connected to adjacent networks of open space and pedestrian connectors. They are visible from public ways and private ways open to the public and have immediate access to public transit. The Project also features active edges of retail and restaurants at Third Street Park and innovation spaces at Sixth Street Park;

- **Comfort** – The Project’s open space will create comfortable places to sit, together or alone, to eat, work or play;

- **Sociability** – The Project has multiple open and free venues that will invite the public to meet, dwell, and interact with friends, colleagues and strangers;

- **Usability** – The Project’s open spaces will provide venues for activity, such as play areas adjacent to the Community Center, dining adjacent to Building C1 and the pavilions, collaboration adjacent to Building C3 at Sixth Street Park.

**Landscape Design**

*The landscape design of the site’s open spaces should create an inviting, active, comfortable, safe, and useful public realm.*

The Project’s public realm is entirely open and accessible to all. Paved plazas, terraces and courts define places of greater social activity, while planted areas of lawns, groundcovers and trees create quieter areas of respite. The Third Street Park retains existing mature oak trees, optimizes solar exposure, and connects to the active street edges. The Sixth Street Park takes advantage of the active pedestrian corridor of Loughrey Walkway, while providing opportunities for active and passive play for the community.
**Volpe Transportation Center**

The new Volpe Building and its site should be designed as integral parts of the district. The building’s site design is to be as continuous as possible with adjoining public open space while maintaining required security for the Volpe Building.

The US DOT Volpe Exchange Project is now under construction on the abutting Government Owned Parcel. The US DOT Volpe Exchange Project is oriented to the geometry of Binney Street and, as such, relates to the orientation of proposed buildings in the Project that also front on Binney Street. Its façade articulation addresses zones of pedestrian frontage, streetwall, tower, and top, and its perimeter landscape zone contributes open space to the greater whole of the Site while meeting GSA security requirements.

While the US DOT Volpe Exchange Project and its service areas and parking are highly protected from vehicle intrusions, the Fifth Street sidewalk and the anticipated Volpe Art Walk create welcoming environment for pedestrian passage.

**Built Form**

Human-scaled, well-defined streets and public spaces should contribute to the district’s overall sense of place.

The primary design goal of the Project is to create human-scaled streets and open spaces and a district where the built form contributes to an overall sense of place by simple, shared urban design principles. The building design objective is outstanding architecture – both innovative and sustainable and tangibly part of the City. The massing envelopes of each of the eight high-rise buildings proposed are conceived with four horizontal zones:

- Pedestrian frontage
- Streetwall
- Tower
- Building top

All proposed building forms have a stepback between streetwall and tower at an approximate height of 85 feet, and another stepback between tower and building top as required by the Volpe Design Guidelines. Typical stepback dimensions will be at least 10 feet and will exist at a minimum of 50% of the building perimeter. Penthouses will step back an additional five feet. Additional stepback dimensions are provided adjacent to 303 Third Street, Loughrey Walkway, and the new Third Street Park. Vertical changes in plane are provided at all streetwalls that are more than 100 feet uninterrupted in plan.
Building Heights & Scale

Building scale, massing, and heights should respond to the open spaces of the site and its context. 12

Residential buildings R1, and R4 are proposed at heights of approximately 250 feet and building R2 is proposed at a height of up to 300 feet. Located furthest from the proposed Third Street Park, Building R3 is proposed to be the tallest, at up to 456 feet. Massing configurations for each of the residential buildings differ from each other, but all are compliant with the dimensional requirements of the PUD-7 Zoning. The building volumes have been conceived to provide strong definition of streets and urban edges to primary open spaces at Third and Broadway and at Loughrey Walkway.

The buildings observe the vertical definitions of pedestrian zone, streetwall, tower, and top, with stepbacks and vertical separations as required.

Commercial buildings C1, C2, and C3 are each proposed to be approximately 250 feet tall (excluding mechanical penthouses), with stepbacks that are compliant and resulting towers that become increasingly slender and broken down in scale 13. In addition, the bulk of these larger commercial buildings is broken down by separate, vertically oriented components.

The massing diagrams shown are diagrams that illustrate the literal allowable massing for each building. 250 feet is the maximum base height for C1, C2, and C3. The maximum height for C4 is 170 feet. The zoning allows for increased height above base on these buildings with reduced floorplates. MIT will endeavor to vary the heights within the zoning limits during the design process and present these for approval during the Design Review for each building.

All buildings comply with minimum and maximum streetwall heights. The upper boundary of streetwall is illustrated in all buildings with stepbacks of at least 10 feet, which will minimize wind impacts on streets and public spaces.

Building Types

Residential, community, laboratory, and other building types should reflect their individual uses while contributing to the urban character of the site as a whole.

Primary uses of buildings include laboratory/office, residential, community, and possibly hotel. All buildings will have active ground floors with particular emphasis on street-level frontages that face major streets and open spaces. The individual building architecture reflects these specific uses in building metrics like floor-to-floor height, structural bay spacing, and in fenestration patterns and material selection.

12 As the Project is a phased project that will take place over a period of years, MIT acknowledges that certain aspects of the development may change from time to time based on a number of key considerations, including the market demands, which could impact the height and massing of the buildings. In order to maintain flexibility in the overall Development Plan, MIT proposes to allow for increases in GFA and height of a building by up to 10% by the Planning Board [and a corresponding decrease in size and massing to other buildings] during the individual building Design Review process and that changes that increase a building’s height and/or GFA by more than 10% shall be permitted by a minor amendment granted by the Planning Board.

13 During the Design Review process, one or both of Buildings C2 and C3 may be increased above 250 feet in height and the floors above 250 feet may include a mixture of GFA and areas exempt from the calculation of GFA, provided that no more than 15,000 sf of GFA may be included within any individual floor plate in accordance with Section 13.93.4(c)(2) of the Ordinance.

14 As set forth more specifically in Volume II, an increase in height above 250 feet to either Buildings C2 and C3 shall be permitted through Design Review without the need for a Minor Amendment, in order to permit the use of commercial GFA that was removed from C1 to provide for greater open space and activation opportunities around Building C1.
Residential Buildings

At least 40% of the GFA included in the Project will be devoted to residential use. This equates to approximately 1,400 units of new housing located throughout the four residential buildings.

Residential building architecture will reflect the more private nature of individual units and residential spaces, emphasizing a lower window-to-wall ratio and a diversity of fenestration patterns.

Laboratory/Office Buildings

Lab buildings have specific metrics that distinguish them as a building type:

- Floor to floor heights of 14’-6” or taller;
- Structural module of 33’-0” on center;
- Minimum floorplates of 25,000 SF; and
- Uniform fenestration patterns reflecting the ever-changing layout of research space within.

These buildings are about innovation and discovery and are designed to accommodate almost continual change. As envisioned, they will all have active ground floor uses; massing that respects the four divisions of the urban street wall; and footprints that conform to “build-to” requirements. Building materials will connect to the character of Kendall Square and East Cambridge but will also be modern in their use of these materials. Building envelopes will respond to solar orientation with different solar control strategies, solid to void envelope ratios and glazing configurations.

Community Center

The Community Center will be located in the base of the R1 residential building with edges facing both Third Street Park and Community Center Park to invite and encourage use by the community. The architecture, in its size, configuration, and transparency, will reinforce this welcoming approach.

While recreational sports activities like basketball are often enclosed in opaque boxes, the design intent to make the Community Center welcoming will be achieved by visibility into the activity of the space, openness and “open-ability” of the building envelope, exuberance of the building architecture, connection to the surrounding landscape, and occupiable outdoor spaces on upper levels. The goal is to design a building that attracts a broad and diverse group of users by the openness of its architecture, the visibility of people and activity, and the sociability of spaces and activities at the building perimeter.
Architectural Character

Projects should relate to human dimensions and provide a sense of intimacy in all aspects of design from building concept development to construction details. Buildings should be warm and inviting, particularly at the lower levels experienced closely by pedestrians.

Projects should relate to human dimensions and provide a sense of intimacy in all aspects of design from building concept development to construction details. Buildings should be warm and inviting, particularly at the lower levels experienced closely by pedestrians.

The Project’s buildings will relate to human scale by means of building envelope, material selection, public accessibility at lower levels, massing stepbacks, fenestration patterns and construction details and articulation. They will also be specific to context, climate, and to the orientation of their specific location within the Site. Buildings will be designed to complement Kendall Square’s existing architecture, with design that is innovative and contributory to Kendall Square’s history and tradition.

The architectural character will:

- Provide diversity and variety within a community of buildings;
- Contribute to the definition and beauty of the public realm;
- Relate to human scale and address urban scale at the pedestrian, building, and district levels; and
- Respond to the surrounding context of Kendall Square and East Cambridge.


The Volpe Site Design Guidelines have the stated goal of creating “a functionally diverse and animated downtown development: handsome buildings that focus on and enrich the public street and open space system, enlivened by variety and liveliness that articulates the urban pattern.” Consistent with the above goal, this Project will equally celebrate buildings and urban open space. Buildings in which people live, work, and play should be graceful, elegant, and welcoming, and should contribute to the grace, elegance, and welcome of the streets, squares, plazas, and parks whose edges they define. As indicated below, the Project is generally consistent with the stated objectives contained in the Volpe Site Design Guidelines that will be developed as part of this Special Permit process.
A. Open Space and Site Design

The open spaces of the Project – its streets, squares, and parks – have been located and planned to engage the greater Kendall Square and East Cambridge community. Significant green spaces will lead people into and through the Site, taking advantage of both sun and shade. Building locations and orientations and a human, walkable block size will all frame the open spaces and extend the invitation to the public to enjoy the green space network and adjacent active uses.

General

The network of the site’s streets, pathways, squares, parks, and other open spaces should organize the site’s buildings and circulation and connect the site to the surrounding districts. The combination and interconnection of these different kinds of public spaces will enrich the experience of the site’s residents, users, and visitors.

The site’s open spaces should be legible, beautiful, and memorable places, visually and programmatically substantive, and usable and occupiable by the public. In effect, they should be public rooms at the scale of the City.

The site’s open spaces should be welcoming and engaging places for public and private use and connection. Landscape and streetscape design, building facades, and the programming of building ground floors should create a beautiful and programmatically rich and continuous pedestrian experience, and emphasize the public nature of the site’s open spaces.

The Project’s open space network represents a highly-connected network that links to nearby neighborhoods. The extension of Fifth Street and Broad Canal Way create a more human-scaled block that complements the adjacent neighborhood block structure. The series of squares, parks and courts complete this network and expand Site porosity, bringing together researchers, residents, students, neighbors and visitors.

Parks

The site should include at least one significant park that will offer a connection to nature and provide opportunities for a range of activities, such as quiet enjoyment, recreation, outdoor dining or picnicking, temporary markets, organized public events, and public gatherings.

Parks should provide environmental benefits.

The Sixth Street Park expands the corridor of the Loughrey Walkway and creates an enhanced park that hosts a varied set of recreation and casual leisure spaces that serve the broader community. Loughrey Walkway’s existing trees, combined with new tree canopy and other plantings and lawns, offer an attractive public greenspace and a connection to natural systems.
Building an interconnected open space network in the heart of Kendall Square will produce major environmental benefits for the City’s diverse residents and workers. Chief among these is the space to breathe—parks are the lungs of any City, and they literally help clean the air and provide space for healthy outdoor urban life. They improve physical and psychological health by encouraging active lifestyles and fitness, especially in the proposed Sixth Street Park. They help in activation, attracting visitors from other parts of the City and beyond. They produce greater resiliency in their ability to absorb and manage storm runoff and mitigate flooding. Third Street Park will play an active role in storm water treatment and recharge for most of the Site. The significant tree cover proposed in both parks, along with the adjoining street tree network, perform important ecosystem services for the City: the urban tree canopy helps capture and filter rainfall, shades and cools the neighborhood, takes up pollutants, helps prevent soil erosion or compaction, and sequesters significant amounts of carbon. These parks are working landscapes.

Squares and Plazas

The site’s squares and plazas should be foci of community life: they should be predominantly pedestrian, enlivened by outdoor dining, temporary markets, outdoor events and performances, and by the retail and community functions in the ground floors of the buildings that frame them.

The Third Street Park is the Project’s largest and most highly visible public realm component. In direct response to community feedback, this park is located at the northwest corner of Third Street and Broadway. The Third Street Park is civic space that creates a welcoming entry into the Project framed by retail and active food and beverage. Flexible in function and programming, Third Street Park contains large lawns, paved gathering spaces and plenty of shade to support gatherings and events of all types. The park connects diagonally across Broad Canal Way to the Community Center Park and beyond to open space located on the US DOT Volpe Exchange Project, completing an open space network that draws people into and through the Site.

Streets

The site’s streets should be integral parts of the City’s street network. They should create an integrated pedestrian circulation system with particularly strong connections to the public way, and between adjacent districts and residential neighborhoods.

Subdividing the existing superblock through the extension of Broad Canal Way, Potter Street, and Fifth Street establishes a block size and street pattern that is responsive to the existing street grid. These new streets form a highly integrated
network of circulation connecting to the adjacent districts and neighborhoods. The vehicular streets provide comfortable pedestrian accommodation and are designed to enhance public life in Kendall Square by constituting a continuous and welcoming public realm that is shaded, comfortable, safe, and lively—during the day and into the night, all year long.

**Universal Access**

_The design of buildings and outdoor spaces (public and private) in and around the site should place special emphasis on universal access._

The entirety of the public realm is designed to provide universal access to all users. Through the use of pedestrian-oriented curbless streets, the Project prioritizes free mobility throughout the Site. Entrances to buildings are at-grade in most locations, while the elevated porches on Broadway are designed with direct and convenient ramps that provide efficient access for all users.

**Building Service, Vehicular Access, and Parking**

*Design and locate loading/servicing areas and parking to support the quality of the pedestrian experience.*

The Project proposes to locate primary building entries along major streets (Broadway, Binney Street and Potter Street) with service access provided from secondary streets. Parking entrances are limited to four points within the eight-building Project, helping to further reduce cross-circulation between pedestrians and vehicles.

No service entrances or parking garage ramps will be located on Broad Canal Way so that the walkability and flexibility of that street is not compromised. Service for Buildings C2, C3, R2 and R3 is located on Kendall Way with loading areas directly opposite each other. The urban design vision for Kendall Way is that of a more multi-purpose street, with primary retail and active spaces at building corners, that transforms at night to a more active music/entertainment alley, a kind of “found” alley of activity.

The loading for Building C1 is located on Fifth Street due to the park frontage on the east, Broad Canal Way on the north and the traffic movements on Broadway to the south. Similarly, the service for Building R1 is located on Potter Street across from the loading at 303 Third Street. Loading for Buildings R4 and C4 is located on Munroe Street.

No loading is located on Broadway, Third Street or Binney Street to avoid conflicts with vehicular traffic as well as bicycle and pedestrian movement on those streets.

**The New Volpe Building’s Site**

_The landscape design of the new Volpe Building’s site should be as seamlessly continuous with the_
landscape design of the rest of the site as possible while providing required security for the building.

The Fifth Street sidewalk and the anticipated Volpe Art Walk with an art installation by Maya Lin will provide a welcoming environment for pedestrian passage.

**Environmental Comfort**

Open spaces, and the buildings that frame them, should be designed to minimize undesirable environmental impacts.

MIT commits to designing all Project buildings to achieve LEED Gold certification. An integrative sustainable design process will be utilized to ensure that best practices will be employed in the design of exterior envelopes, building energy- and water-use systems, plantings, and storm water management systems. Construction practices and materials, interior and exterior lighting design, and daylight maximization will all contribute to the achievement of LEED Gold certification.

The Project’s open spaces have been located and planned to engage the greater Kendall Square and East Cambridge community. Significant green spaces will lead people into and through the Site, taking advantage of both sun and shade. The network of planted areas will contribute highly to storm water management and mitigate the urban heat island effect. Building locations and orientations and a human, walkable block size will all frame the open spaces and extend the invitation to the public to enjoy the open space network.

Multiple design elements will contribute to environmental comfort. The Project mitigates the urban heat island effect by eliminating hundreds of surface parking spaces and locating the majority of the new parking below-grade. Building massing and landscape planting will create comfortable wind conditions for walking and dining at street level. More than 200 new trees will be planted; the canopy from these trees will further temper the pedestrian environment.

### B.

**Built Form**

Buildings and urban open space jointly define the quality and character of the public realm of cities. They are the specific built manifestation of urban design principles. The public realm of a City becomes inviting and welcoming when its buildings and open spaces exist in equilibrium, each contributing equally to the definition and charm of the other. The framework established by this Project for the massing and articulation of its buildings will reinforce the successful weaving of the Project’s buildings and spaces into the fabric of Kendall Square and East Cambridge.

**General**

Architectural form should define urban space.
It should enhance the quality and amenity of the public realm and sense of place, create legible and meaningful public places, and reinforce Kendall Square’s existing and proposed street and open space patterns.

The site’s buildings should reinforce the site’s varied urban conditions.

The site’s buildings should respond to a wide range of scales: intimate pedestrian, intermediate streetscape, and long-distance skyline views, and to the scale and use of existing neighboring buildings.

By establishing a block size and street pattern that is responsive to the existing street grid, the Project will weave seamlessly into the urban fabric of Cambridge. Street widths, open spaces, building scale and the mix of residential and commercial uses will all serve to connect future development to the communities of East Cambridge, Wellington-Harrington, The Port, and MIT to the Kendall Square MBTA Station, neighborhood amenities, the Broad Canal, open space, and the waterfront.

**Pedestrian Frontage Zone**

Create a welcoming pedestrian environment by maximizing retail and community functions to directly engage pedestrians, and by minimizing detrimental impacts on the pedestrian experience.

Provide shelter and visual interest at the pedestrian scale, and emphasize the horizontal continuity of the public realm.

Reduce the distinction between exterior and interior space at the ground level to extend the effective public realm indoors and to reveal indoor activity to the street.

The Project relies on two fundamental tenets to enliven its streets and public places. First, buildings will largely be built to the urban build-to line, establishing a continuous streetwall that connects the Project to the surrounding neighborhood. Second, the inclusion of up to 100,000 SF of largely transparent, active places of public accommodation, mostly located at street-level (including retail, restaurants, cultural and other active uses) will serve to blur the boundary between inside and outside, thereby energizing both. In addition to canopies that may occur on individual buildings, the passageway will act as not only a connector but will also be a location for shelter from sun and rain as visitors to the site meet and gather.

Ground floor retail and active uses are an integral component of the Project. They will contribute to the inclusivity and vitality of the district, foster a sense of security across many hours of the day and into the night, and provide venues for both planned and serendipitous social and intellectual interaction to occur. By focusing on small, local, independent...
retail businesses, the sense of community and of connectivity to greater Cambridge will be amplified.

**Streetwall Zone**

*Building streetwalls should create beautiful and memorable room-like urban places by spatially defining the width and perceptual height of streets and other open spaces.*

Each of the Project’s buildings will be built to the build-to line for at least 80% of the length of its façade, defining the urban streetwall up to a height of approximately 85 feet above grade. Floors within this zone may utilize less overall transparency than the retail and entry elements of the pedestrian frontage zone, as they serve to reflect the specific functional use of the overall building and define the urban scale of streets and open spaces. The buildings will define and integrate with public spaces including all four parks and Broad Canal Way.

**Building Towers**

*Building towers should enhance the quality and amenity of the public realm and a sense of a cohesive place by their form and external appearance. They should be designed to minimize their sense of bulk, and to maintain vertical emphasis and continuity.*

The Project complies with PUD-7 Zoning, which requires building towers to be stepped back from the streetwall zone by a minimum of 10 feet over at least 50% of the horizontal length of the façade, and to be further broken down into vertically articulated elements by the use of additional plan offsets or reveals wherever the overall horizontal façade length exceeds 100 feet. An additional stepback of five feet at the top of the building tower zone will differentiate the tower from the building top. Each of these massing articulations is intended to enhance the proportional elegance and continuity of the overall building.

**Building Tops**

*Building tops should contribute to the district’s profile on the skyline and should be designed as expressive architectural elements that appropriately celebrate the building’s union with the sky.*

The Project complies with PUD-7 Zoning, which requires building tops, typically mechanical penthouses, to be stepped back from the plane of the building tower zone by at least five feet.

Lab buildings have large mechanical penthouses which can be shaped in a variety of ways to tell a story of this place and create a varied, purposeful skyline for East Cambridge. Examples of this opportunity for shaping include 75 Ames Street, the Stanley Building at the Broad Institute, 100 Binney Street and the Carter Ink Building.
Building Massing

Building massing should give spatial definition to the site’s streets and squares, and increase the compatibility of tall buildings with existing nearby buildings.

Buildings should incorporate a system of setbacks and step-backs, based on the four horizontal zones, to minimize the extent of cast shadows, loss of sky view, and undesirable wind conditions in the adjacent public streets and open spaces, and to create sensitive transitions to neighboring uses, especially to residential buildings, historic structures, and parks. Of particular concern are the Sixth Street Walkway (Loughrey Walkway), open space in the interior of the site and the open space at the intersection of Broadway and Third Street. In addition, the height and bulk of buildings should be configured to minimize the visual dominance of building towers above a 6-8 story base and above nearby low buildings.

A primary design goal of the Project is to create human-scaled streets and open spaces and a district where the built form contributes to an overall sense of place by simple, shared urban design principles. The massing envelopes of all eight proposed high-rise buildings are conceived with four horizontal zones: pedestrian frontage, streetwall, tower, and building top.

All proposed building forms will utilize stepbacks between streetwall and tower at an approximate height of 85 feet, and between tower and building top. Typical stepback dimensions will be at least 10 feet, and will exist at a minimum of 50% of the building perimeter. Penthouses will stepback an additional five feet. Additional stepback dimensions are provided adjacent to 303 Third Street, Loughrey Walkway, and the new civic open space at Third Street and Broadway. Vertical changes in plane are provided at all streetwalls that are more than 100 feet uninterrupted in plan.

Connectors

Upper floor connectors should be considered only in circumstances where tenants need large floorplates that would otherwise result in excessive apparent building mass. Such connectors should be designed to maintain permeability of large floorplate buildings and allow light and views of the sky.

Upper floor connectors between Buildings C1, C2 and C3 are possible as a means to expand horizontal collaboration among users. They will be subject to subsequent Design Review before the Planning Board.
Community Spaces

*Community spaces should be designed to be welcoming and inviting to the public.*

The Community Center is proposed located at the heart of the Site, adjoining public open space to invite and encourage use by the community. The architecture, in its size, configuration, and transparency, will reinforce this welcoming approach.

The Project will be developed with the following priorities in design:

- Equity and Inclusion
- Diverse Housing Opportunities
- Innovative Science and Research Space
- Publicly Beneficial Open Space
- Retail and Active Uses on the Ground Floors
- Sustainability and Resiliency

As MIT plans the Project, it understands that it is doing so in a time of heightened awareness to racial injustice and inequity. As an institution of higher learning and thought leadership, MIT is listening to the community to learn and understand, evaluate opportunities, and apply new insights to all that MIT undertakes. The work to engage the community around issues of race, equity and inclusion will be intentional and ongoing.

Since its inception in 2016, the Project’s planning efforts have been informed not only by learning from prior experiences, but also a sharpened focus on equity and diversity. While the Project reflects this focus, MIT is continuing to look for opportunities to more fully integrate these values into affordable housing, the Community Center, retail, employment opportunities and open space. Alongside the Cambridge community, MIT will closely examine the role and mission of the Community Center, including the Job Connector (now fully operational in The Port), and its connection to sustainability, open space, innovation and commercial activities. The Project’s housing will be carefully designed and managed to increase racial equity and inclusion.

MIT committed to building a Community Center on the Development Parcel and the Community Center will be an integral part of the Project. MIT’s hope is that the Community Center and Job Connector will draw in a diverse community and, along with the Project’s proposed housing and retail, ensure a diverse and open project for all.

As part of the zoning for the Volpe Project, MIT committed to fund up to $22 million towards design and construction costs and $3.5 million as an endowment for initial operations of the Community Center.
MIT’s research and input from the equity and inclusion workshops demonstrated that this amount may be insufficient to achieve the diversity and equity goals MIT has for the membership. Therefore, MIT will commit to increase the amount of the initial operating endowment to $10 million.

The following design criteria will guide the design of the Community Center:

- **Accessibility** – the building will be physically accessible without barriers or points of confrontation; the activities within will be visually accessible; and the building massing, materials and signage will seek to make it personally accessible. The building envelope will have a high percentage of transparency to make the activities an attraction.

- **Sociability** – both spaces exterior and interior to the building will seek to bring people together by design and programming. Spaces outside, at-grade or on terraces, will be designed and furnished to welcome people without barrier, to be flexible to reconfigure, and to accommodate diverse activities. These spaces will provide the tangible invitation to meet, dwell, and interact with friends and strangers.

- **Comfort** – the design of these spaces, both exterior and interior, will be comfortable in configuration, i.e., open and flexible, to encourage engagement and interaction.

- **Active Programming** – programs for recreation, education, entertainment and connection will be diverse to attract a broad range of users.

**Energy Performance and Embodied Energy**

_The site’s buildings should be designed to minimize energy use and the embodied energy of their components._

MIT commits to designing all Project buildings to achieve LEED Gold certification and exceed minimum Stretch Code performance. An integrative sustainable design process will be utilized to ensure that best practices are employed in the design of exterior envelopes, building energy systems, and construction systems and materials. The focus throughout the design process for individual buildings will be to drive down projected emissions, both in the manufacture of construction elements and in the long-term operation of the buildings.

The Project is designed to maximize energy efficiency and support a path for a net-zero carbon future. Residential buildings will be all-electric, while commercial buildings will be designed with a path to electrification that would integrate with the long-term vision for a low-carbon power grid. Load sharing between complementary building programs will be explored to maximize heat exchange and optimize energy performance of the development. Furthermore, the proposed on-site rooftop photovoltaic (PV) arrays, supplemented by procurement of off-site renewable energy, can offset the Project’s electricity use. Electrified residential buildings alongside commercial
buildings designed with a path to electrification chart a net-zero carbon future in line with the City’s and MIT’s long-term goals. Based on the above, MIT has designed the Project in a manner that is generally consistent with the objectives of the PUD-7 Guidelines and Principles.