

KENDALL SQUARE INITIATIVE

Planned Unit Development Special Permit Application - SoMa September 8, 2015





GENERAL DEVELOPMENT GOALS

Kendall Square PUD





PRE-ZONING PUBLIC ENGAGEMENT

2008 -2009

2010 -2012

2013

- Exploratory and brainstorming meetings with City Councillors, City staff, Planning Board, Historical Commission and community members
- Set up website and feedback mechanisms

- More meetings with neighborhood and civic associations, Planning Board, City Council, City staff, Historical Commission
- Community-wide open houses
- MIT Faculty Taskforce on Community Engagement in 2030 Planning report
- Graduate Student Housing Working Group report

 Community-wide meetings on East Campus Planning Study

Multiple City Council
 & Planning Board
 hearings

2011-2012 K2 Study Process ZONING APPROVED





PRE-SPECIAL PERMIT PUBLIC ENGAGEMENT

2013 -2014

2015

- Continued community interaction including community-wide meetings on East Campus Planning Study
- Architect selection process with MIT designer committees
- Began shaping design schemes with guidance from MIT School of Architecture and Planning faculty

Seven public meetings:

- MIT Student Center (May 6)
- Boston Marriott Cambridge (May 6)
- Jane's Walk (May 9)
- East Cambridge Planning Team (May 27)
- Planning Board Walking Tour (June 9)
- Cambridge Historical Commission (July 2 & August 6)

PUD APPLICATION FILING



PRINCIPLES OF ZONING & SPECIAL PERMIT APPLICATION

Activation Transform 6
surface
parking lots
into a mix of
active uses in
response to the
K2 vision







Preservation of Future Academic Capacity – Continue MIT's innovation and impact

Housing – Increase housing, including affordable and graduate student



Public Realm — Establish a public realm environment including the MIT Museum, accessible open spaces, and community-influenced retail to create a vibrant link between campus and community

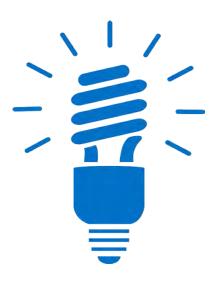




Mobility Improvements – Create transit oriented development, utilize lower parking ratios, and prioritize the bicycle and pedestrian experience



Innovation – Provide space to bolster Kendall's innovation ecosystem





Workforce Development — Create approximately 3,800 new employment opportunities, including construction and apprentice, innovation, retail, office, and R&D









Sustainability – Set new standards with a comprehensive approach to sustainability that goes beyond individual buildings



Financial Commitments –

- Required contributions of approximately:
 - \$3.5 million to benefit community organizations
 - \$8.8 million to the Community Fund
 - \$4.6 million Incentive Zoning payment
- Approximately \$10 million annually in real estate taxes
- Approximately \$20-30 million in investment for affordable housing



Historic Preservation – Preserve the historic Kendall, Hammett, and Suffolk Buildings (238, 264, and 292 Main Street) through adaptive re-use





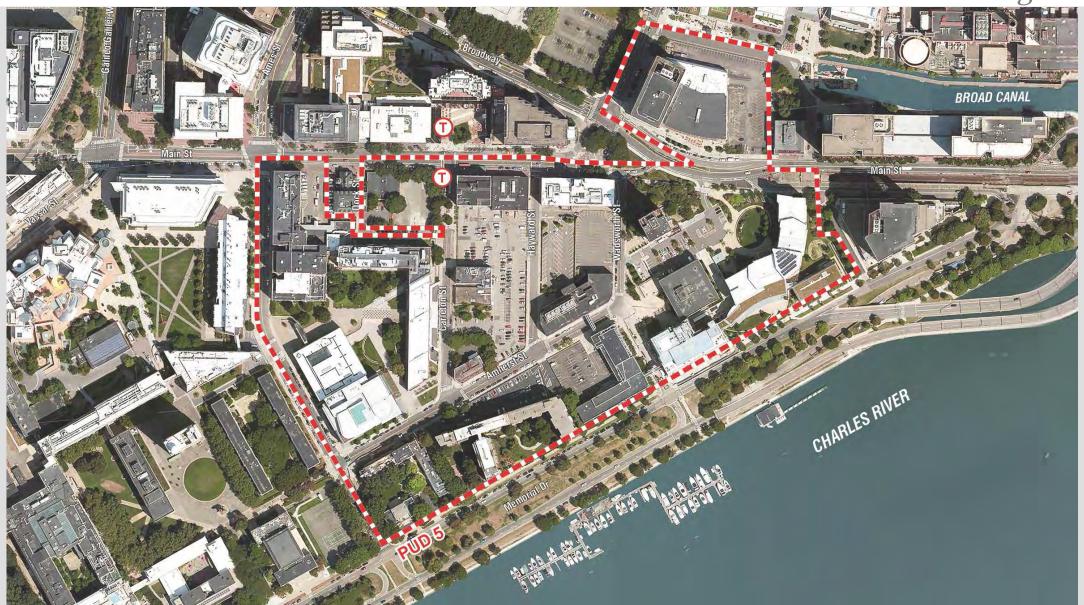






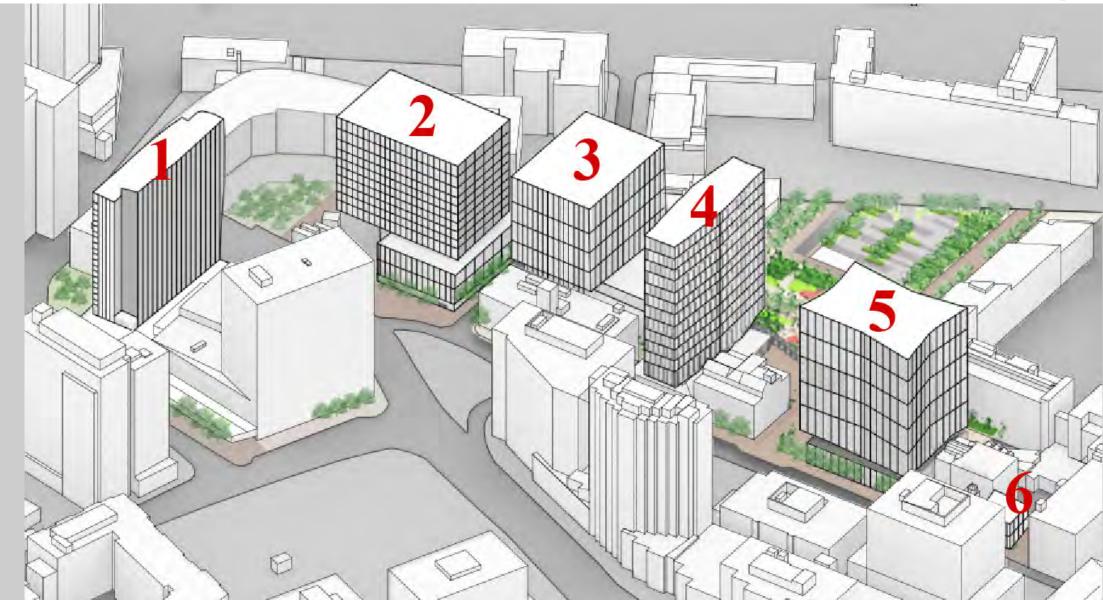
PROJECT OVERVIEW

Existing Conditions





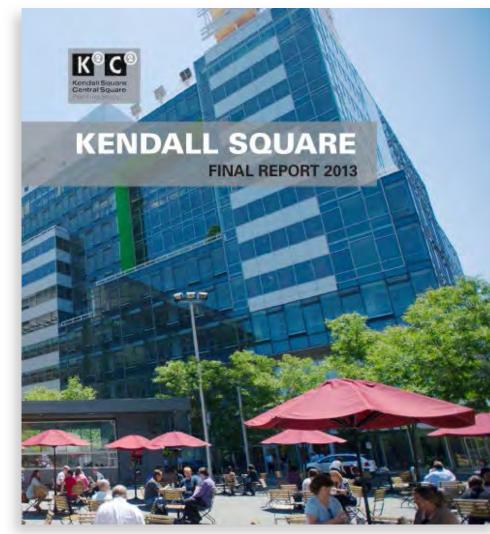
PROJECT OVERVIEW



ZONING AND PROPOSAL FOLLOW K2 STUDY FINAL REPORT AND DESIGN GUIDELINES

- Requires a mix of uses including:
 - Housing
 - Variety of retail
 - Open space
 - Innovation space
- Includes
 environmental,
 sustainability,
 transportation, and
 infrastructure
 improvements

- Design guidelines which consider:
 - Shadow and wind
 - Pedestrian experience
 - Massing
 - Ground floor activation
 - Setbacks





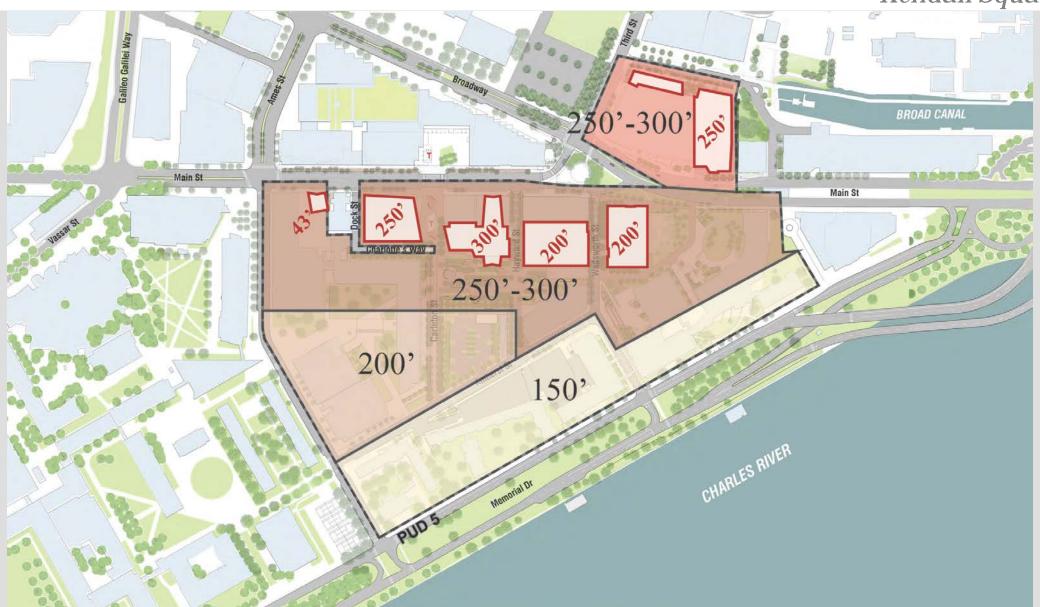
CONFORMANCE WITH ZONING

	Parameters	KSI Proposal		
Total New SF	R&D max: 980,000 SF Residential min: 240,000 SF	R&D: 888,000 SF Residential: 285,000 SF		
Density	FAR 3.9 across the district	FAR 3.35 across the district		
Parking	Retail: 0.5/1,000 SF max Office: 0.9/1,000 SF max R&D: 0.8/1,000 SF max Housing: 0.5-0.75/unit	Complies with parking ratios		
Open Space	15% of PUD	38% of PUD		
Maximum Heights	150'-300'	Building 1: 250' Building 2: 200' Building 3: 200' Building 4: 300' Building 5: 250' Building 6: 43'		



ZONING HEIGHTS

Kendall Square PUD 5





PROPOSED PROGRAM*

Uses:	Housing/ Dormitory	Retail/ Active Uses	Office/R&D	Academic	Other	TOTAL		
North of Main Street								
Building 1	285,000	16,000	15,000	-	87,000	403,000		
South of Main Street								
Building 2	-	18,000	298,000	-	-	316,000		
Building 3	-	27,000	270,000	-	-	297,000		
Building 4	330,000	28,000	-	9,000	-	367,000		
Building 5	-	20,000	305,000	65,000	-	390,000		
Building 6	-	6,000	-	-	-	6,000		
TOTAL	615,000	115,000	888,000	74,000	87,000	1,779,000		

PHiT

^{*} Gross floor area without exemptions. Does not include academic space in existing buildings E38 & E39.



PLANNING AND DESIGN PRINCIPLES

- Walkability
- Open Space
- Universal Access
- Ground Floor Activation
- Built Form and Architectural Intent
- Environmental Quality



SOUTH OF MAIN STREET



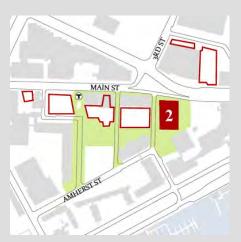


MAIN STREET ELEVATION



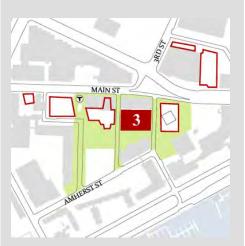


SOUTH OF MAIN STREET SITES



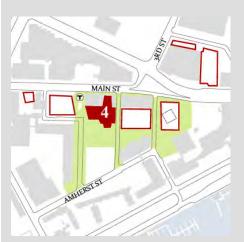


SITE 2
Architect:
Elkus|Manfredi



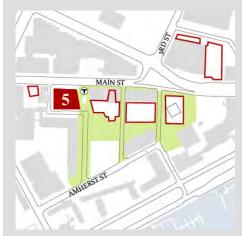


SITE 3
Architect:
Perkins+Will



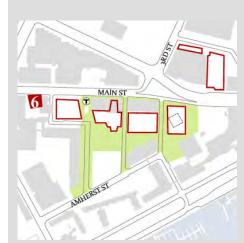


SITE 4
Architect: NADAAA
and Perkins+Will





SITE 5
Architect:
Weiss/Manfredi

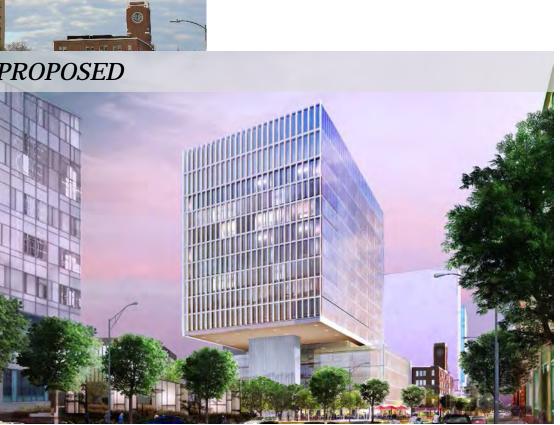




SITE 6
Architect:
nARCHITECTS

SITE 2







USE: Retail and

R&D

SF: 316,000

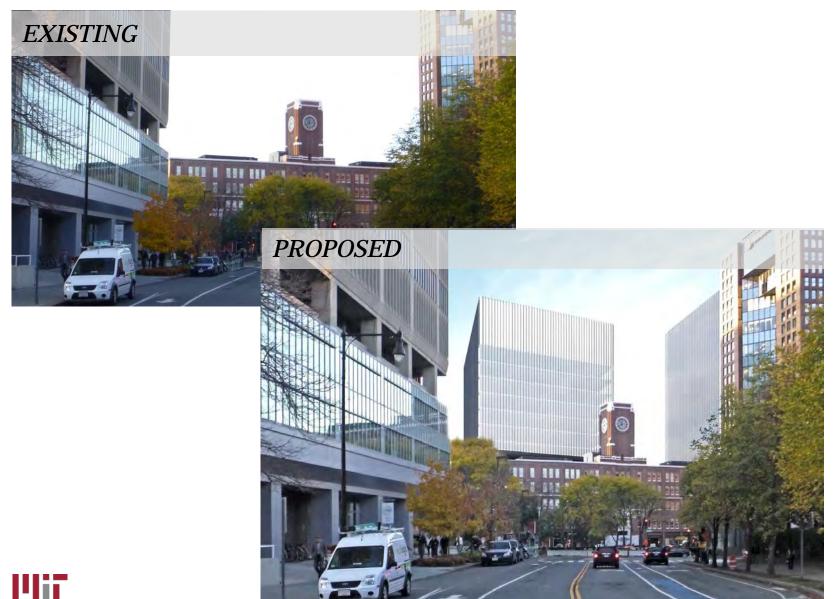
HEIGHT: 200'

ARCHITECT: Elkus

Manfredi



SITE 3 – 238 MAIN STREET





USE: Retail and

R&D

SF: 297,000

HEIGHT: 200'

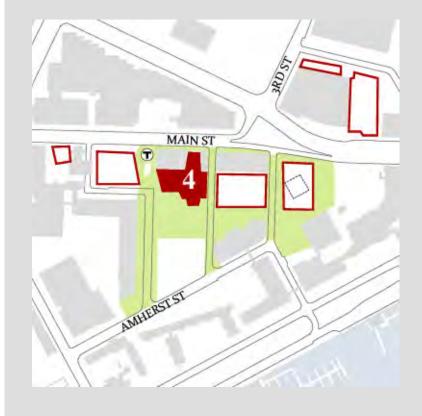
ARCHITECT: Perkins+

Will



SITE 4





USE: Retail, Grad

Housing

SF: 367,000

HEIGHT: 300'

ARCHITECT: NADAAA and

Perkins+Will



SITE 5 – 314 MAIN STREET





USE: Retail and

Office

SF: 390,000

HEIGHT: 250'

ARCHITECT: Weiss/

Manfredi



SITE 6





USE: Retail and

Office

SF: 6,000

HEIGHT: 43'

ARCHITECT: nArchitects



- Activate the streetscape with uses that engage pedestrians
- Provide wide sidewalks, diverse and useful street furniture, and opportunities for sidewalk dining and interaction
- Reduce environmental impacts of shadow and wind to maximize comfort and use



View From Main Street Looking East





Shadows

- Net new shadow is reduced by shadow from existing buildings
- Building 3 is set back from Main Street which minimizes shadow on Main Street
- Orientation of building 4 is north-south which minimizes shadow on Main Street







Shadows

June 21

CURRENT CONDITION

9 AM

12 PM

3 PM













Shadows
September 21

CURRENT CONDITION



9 AM SHADOWS, SEPTEMBER 21ST



PM SHADOWS, SEPTEMBER 21S



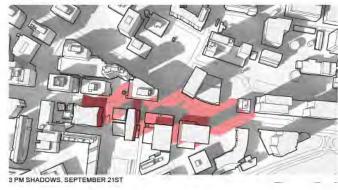
NET NEW SHADOWS



AM SHADOWS, SEPTEMBER 21ST



PM SHADOWS, SEPTEMBER 21ST



3 PM

12 PM

9 AM





Shadows

December 21

CURRENT CONDITION



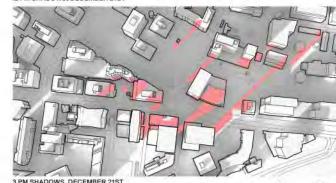




NET NEW SHADOWS







9 AM

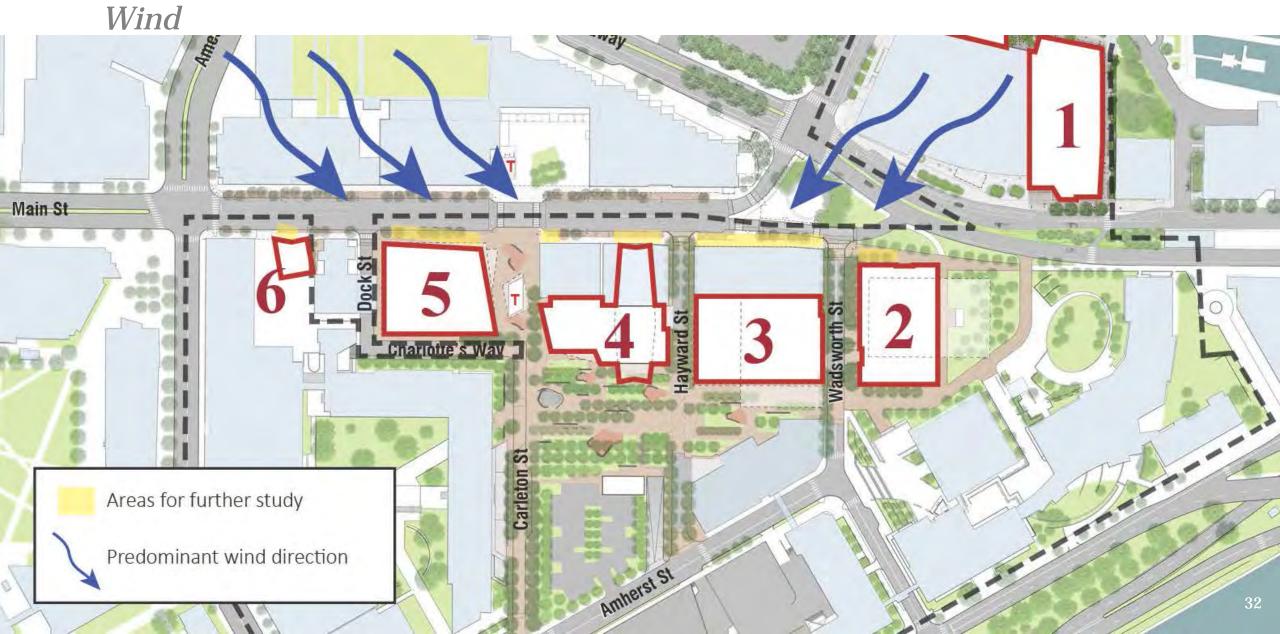
12 PM

3 PM



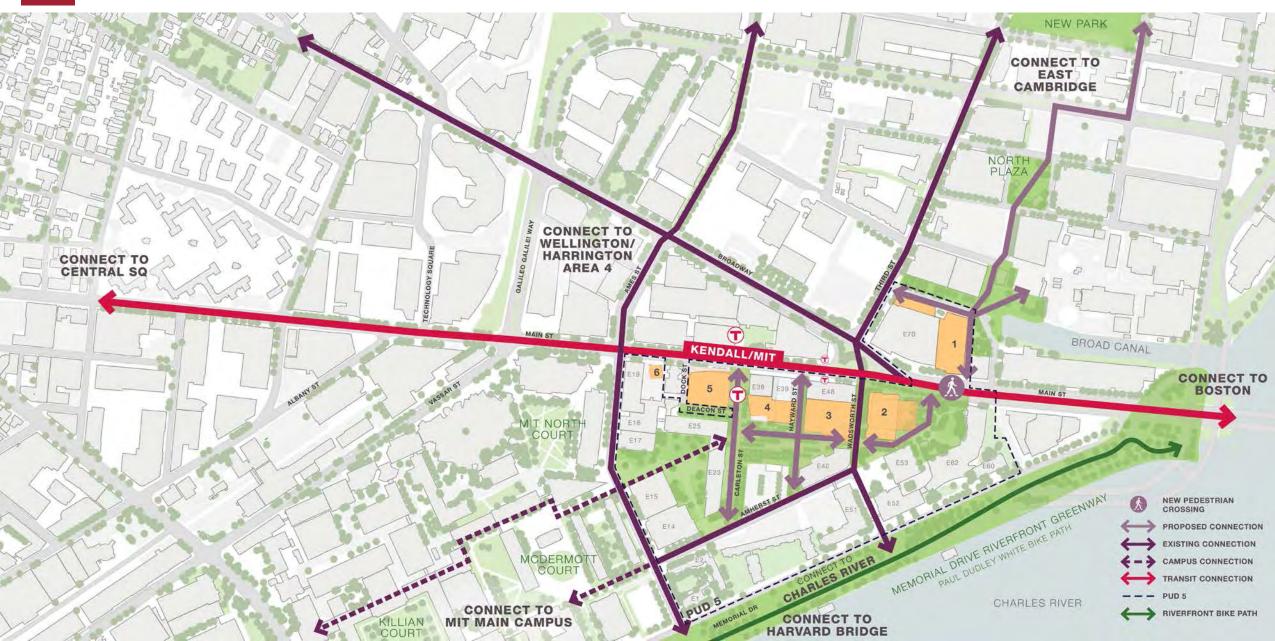


CREATING PEDESTRIAN EXPERIENCE





PROPOSED OPEN SPACE CONNECTIONS



OPEN SPACE







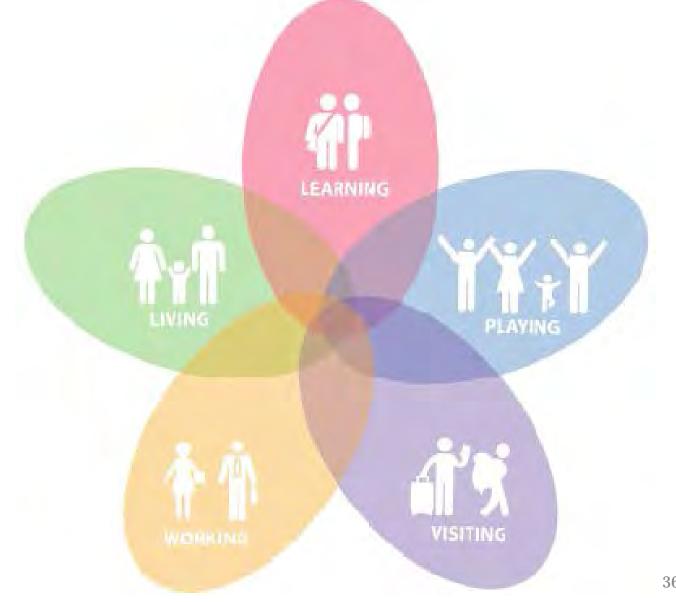


OPEN SPACE POTENTIAL PROGRAMMING

MIT is hiring a new

Director of Open Space Programming

who will spearhead the effort to create lively, welcoming, open spaces with a range of programming for the community.







OPEN SPACE POTENTIAL PROGRAMMING

Flexible Open Space

- Shade
- Variety of seating
- Respite
- Games (tables, ping pong, bocce, etc.)
- Café/dining
- Urban gardens
- Storm water gardens
- Interactive features and artwork

Events

- MIT Press author conversations
- Museum event @ night
- MIT Admissions briefings
- Maker Faire
- Performances
- Science + technology fairs/expo
- International symposia
- Ability to convene up to several hundred

Play

- Environmental interaction
- Engagement for all ages and all users

Food Trucks

Bike Infrastructure



OPEN SPACE POTENTIAL PROGRAMMING









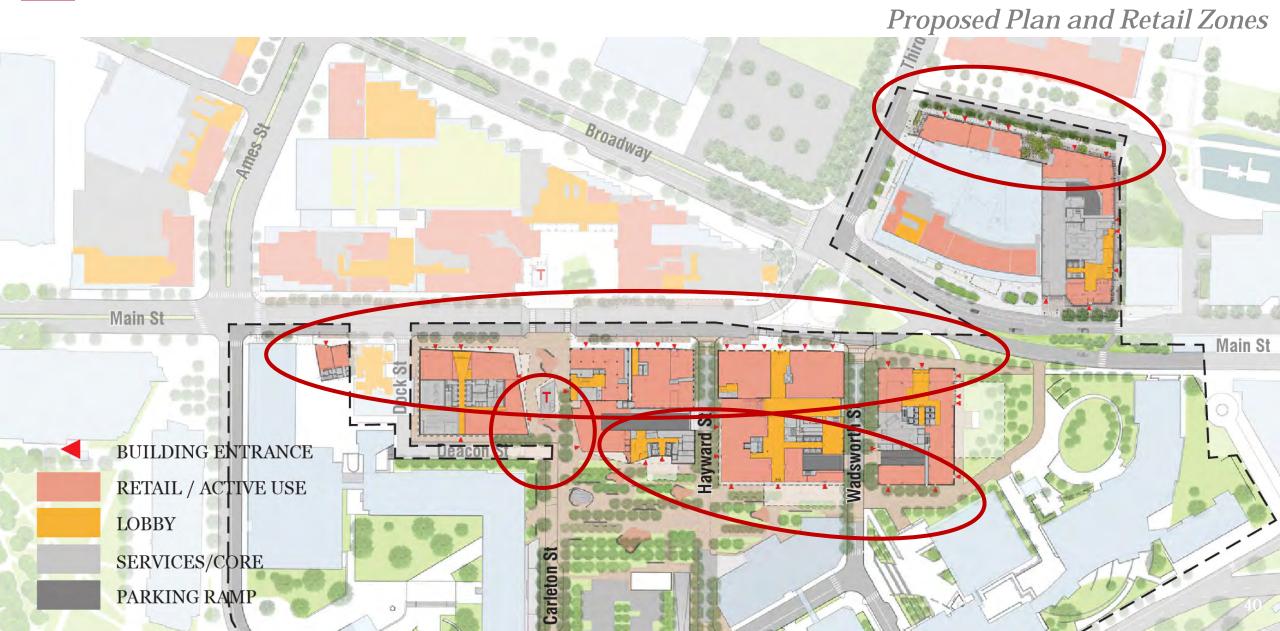




Existing Conditions



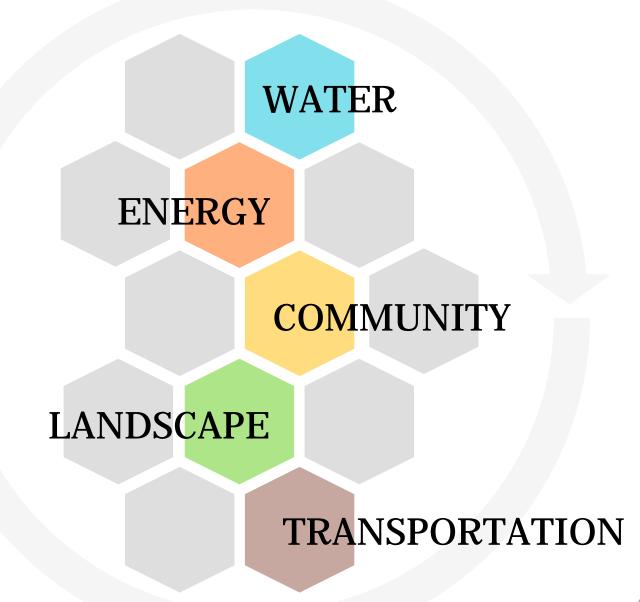
RETAIL AND ACTIVE USE





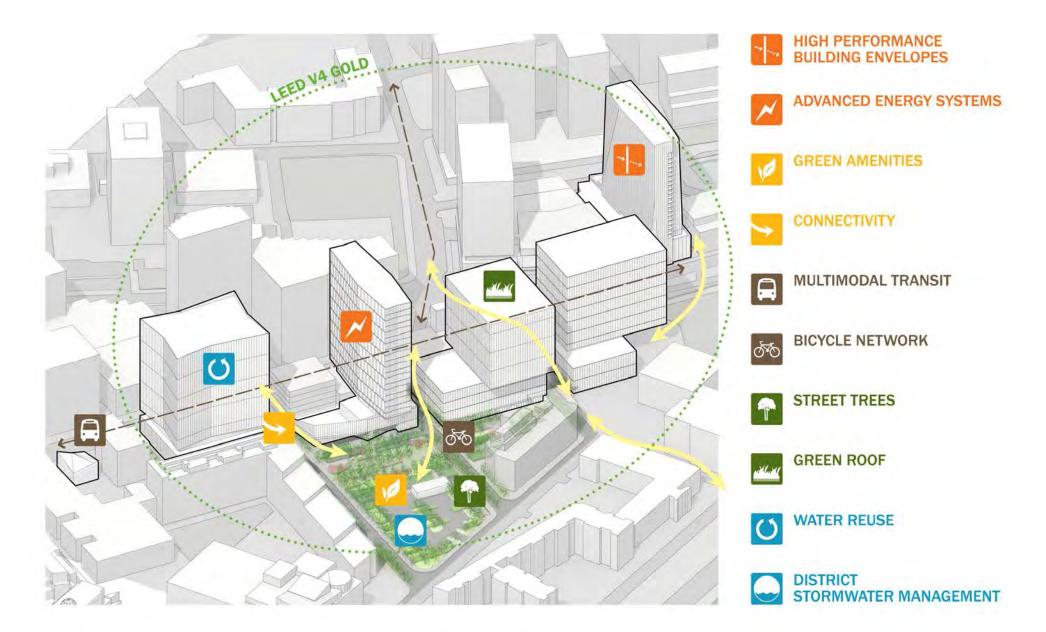
SUSTAINABILITY STRATEGIES

MIT is committed to setting new standards in sustainability, with a comprehensive approach that goes beyond individual buildings.





SUSTAINABILITY STRATEGIES







- Ongoing discussions with City Departments
- Assessed existing sanitary, stormwater and water systems
- Municipal systems adequate for demand
- Conceptual plans for distribution and tie-in in PUD filings
- Reconstructing Hayward Street and Carleton Street







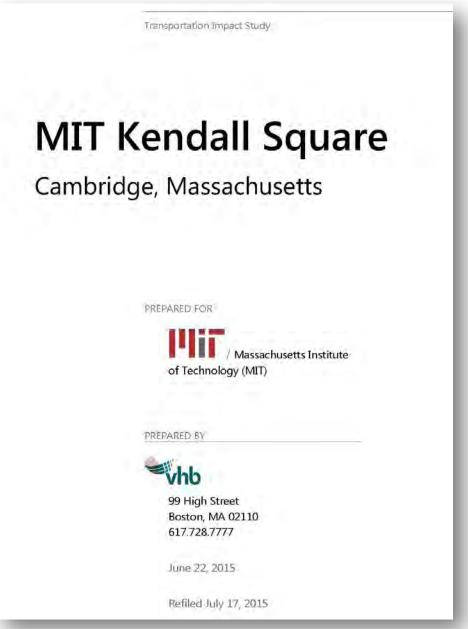






TRANSPORTATION

- Comprehensive TIS, including robust transit analysis, submitted June 22nd and certified July 21st
- Draft PTDM plan submitted August 25th
- Ongoing discussions with city staff on transportation improvements and PTDM measures





TRANSPORTATION

- Majority of parking and loading below grade in two garages
 - 809 net new parking spaces
 - 685 replacement spaces
- Significant bicycle amenities
 - Over 650 bike parking spaces
 - Bike fix-it stations, Hubway stations
- Pedestrian improvements throughout the district
- Proposed improvements to the MBTA headhouse



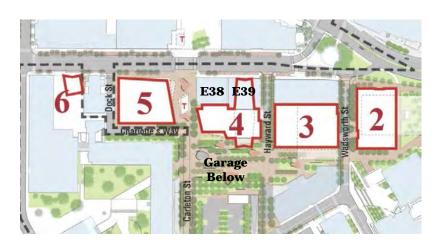






PRELIMINARY PHASING

- 1. Below-grade garage
- 2. Buildings 5, 4, E38 & E39
- 3. Building 3
- 4. Building 2
- 5. Building 6



- Open space and public realm improvements will be delivered with each building
- Housing (at Site 1) required before full R&D build-out
- Final schedule will be determined by Institutional priorities and market needs
- Complete build-out anticipated over next 7-10 years



NEXT STEPS

- Article 19 process consistency with Urban Design Objectives
- Review of traffic impact and mitigation
- Infrastructure and utilities
- Detailed review of open space/active space plans
- Public hearings on Final Development Plan





MIT: IMPLEMENTING A COMMUNITY VISION FOR ALL

Open Space Looking East



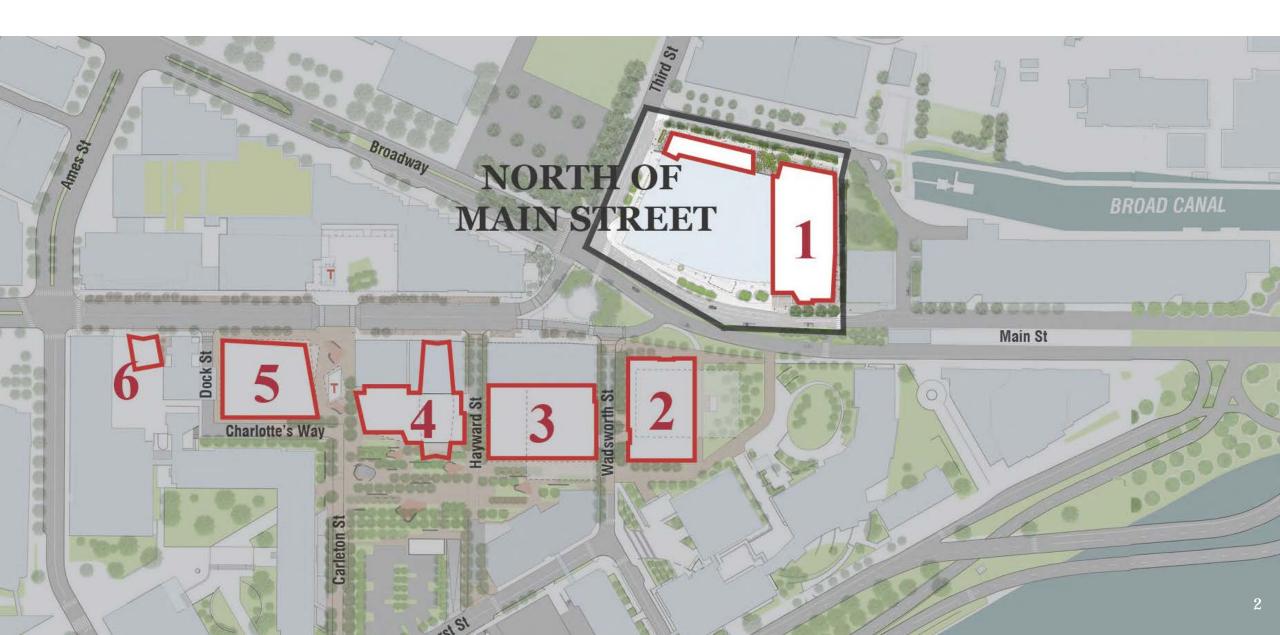


KENDALL SQUARE INITIATIVE

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NORTH OF MAIN STREET





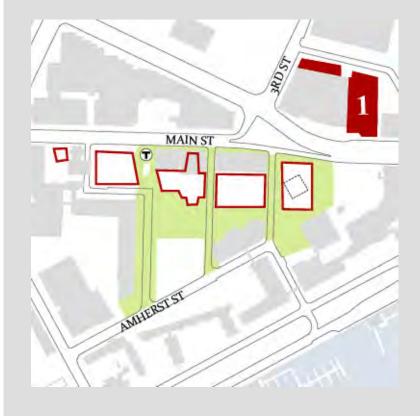
SITE 1 PROJECT OVERVIEW



SITE 1







USE: Retail and

Residential

SF: 403,000

HEIGHT: 250'

ARCHITECT: Elkus

Manfredi





CONFORMANCE WITH ZONING

	Parameters	KSI Proposal		
Total New SF	R&D max: 980,000 SF Residential min: 240,000 SF 18% Affordable	R&D: 888,000 SF Residential: 285,000 SF 18% Affordable		
Density	FAR 3.9 across the district	FAR 3.35 across the district		
Maximum Heights	150'-300'	Building 1: 250' Building 2: 200' Building 3: 200' Building 4: 300' Building 5: 250' Building 6: 43'		
Open Space	15% of PUD	38% of PUD		
Parking	Retail: 0.5/1,000 SF max Office: 0.9/1,000 SF max R&D: 0.8/1,000 SF max Housing: 0.5-0.75/unit	Housing: 0.52/unit		





PROPOSED PROGRAM*

Uses:	Housing/ Dormitory	Retail/ Active Uses	Office/R&D	Academic	Other	TOTAL			
North of Main Street									
Building 1	285,000	16,000	15,000	-	87,000	403,000			
South of Main Street									
Building 2	-	18,000	298,000	-	-	316,000			
Building 3	-	27,000	270,000	-	-	297,000			
Building 4	330,000	28,000	-	9,000	-	367,000			
Building 5	-	20,000	305,000	65,000	-	390,000			
Building 6	-	6,000	-	-	-	6,000			
TOTAL	615,000	115,000	888,000	74,000	87,000	1,779,000			



^{*}Gross floor area without exemptions

HOUSING

- Approximately 240 market-rate units
- 18% Affordable (approximately 50 units)



View From Main Street Looking West





- Activate the streetscape with uses that engage pedestrians
- Provide wide sidewalks, diverse and useful street furniture, and opportunities for sidewalk dining and interaction
- Reduce environmental impacts of shadow and wind to maximize comfort and use



View from Third Street





Shadows

- Net new shadow is reduced by shadow from existing buildings
- Morning shadow falls on One Broadway
- New shadow will occur on the Broad Canal in later afternoon hours
- A 250' tall tower is proposed, having less impact than the allowable 300' tower



View from Canal





Shadows

June 21

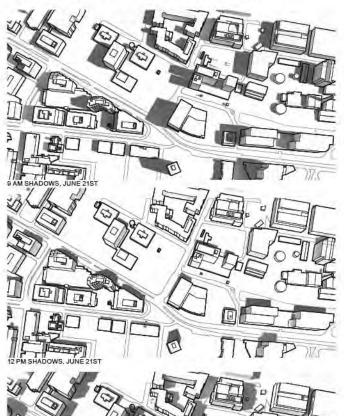
CURRENT CONDITION

NET NEW SHADOWS

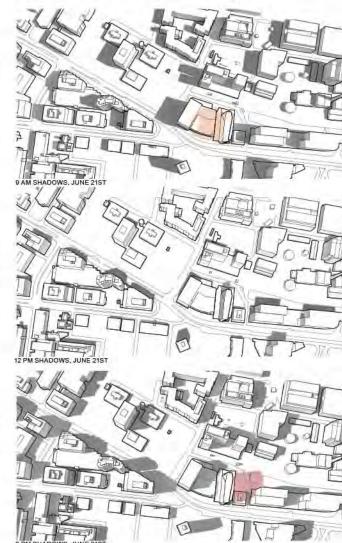
9 AM

12 PM

3 PM









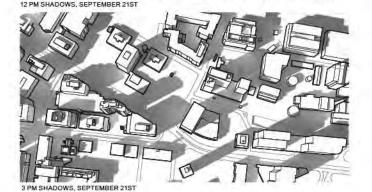


Shadows
September 21

CURRENT CONDITION







NET NEW SHADOWS









9 AM



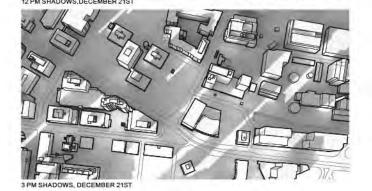


Shadows

December 21

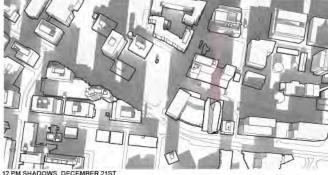
CURRENT CONDITION





NET NEW SHADOWS





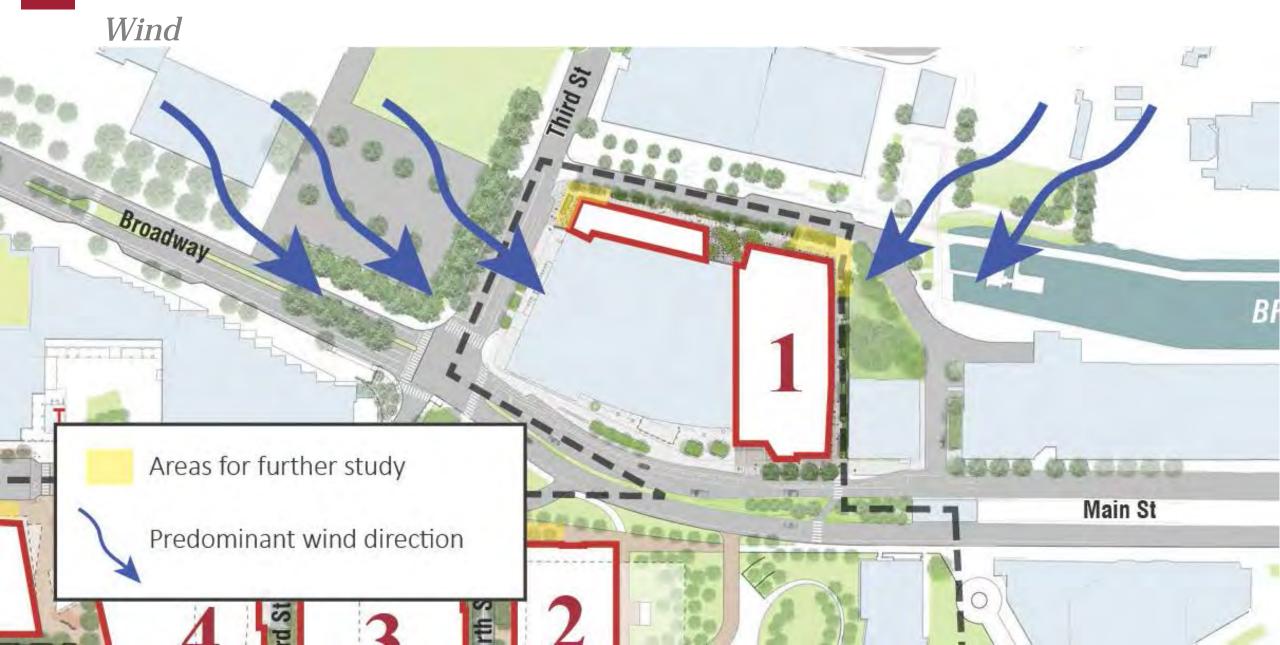


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9 AM

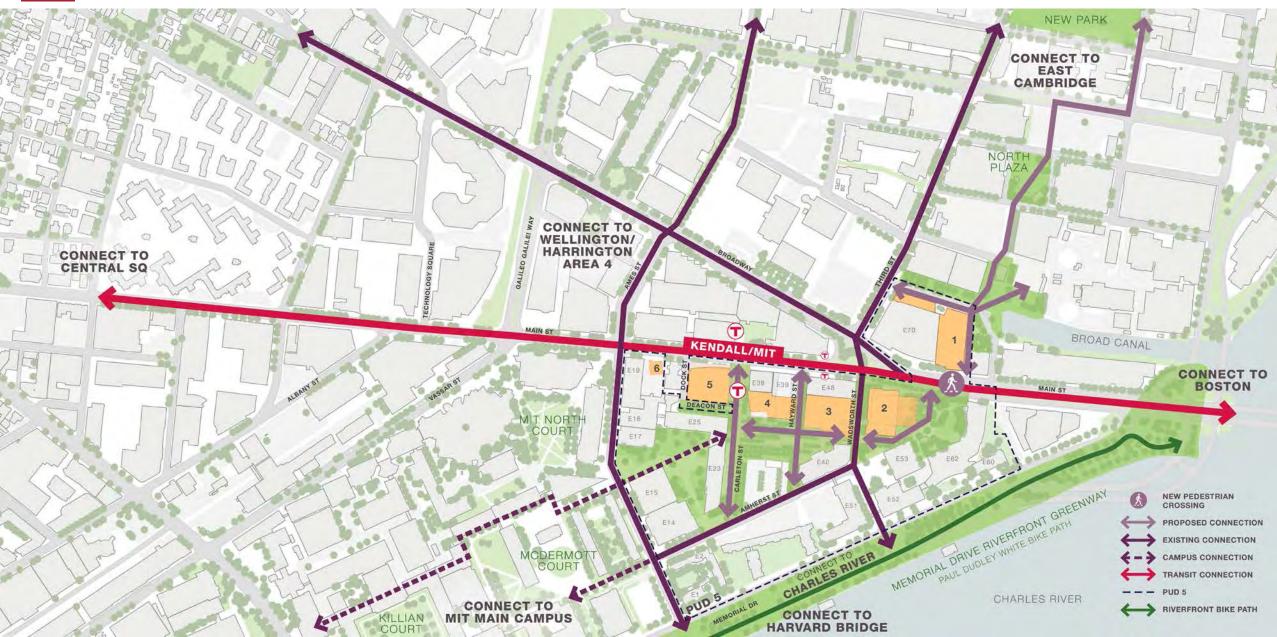
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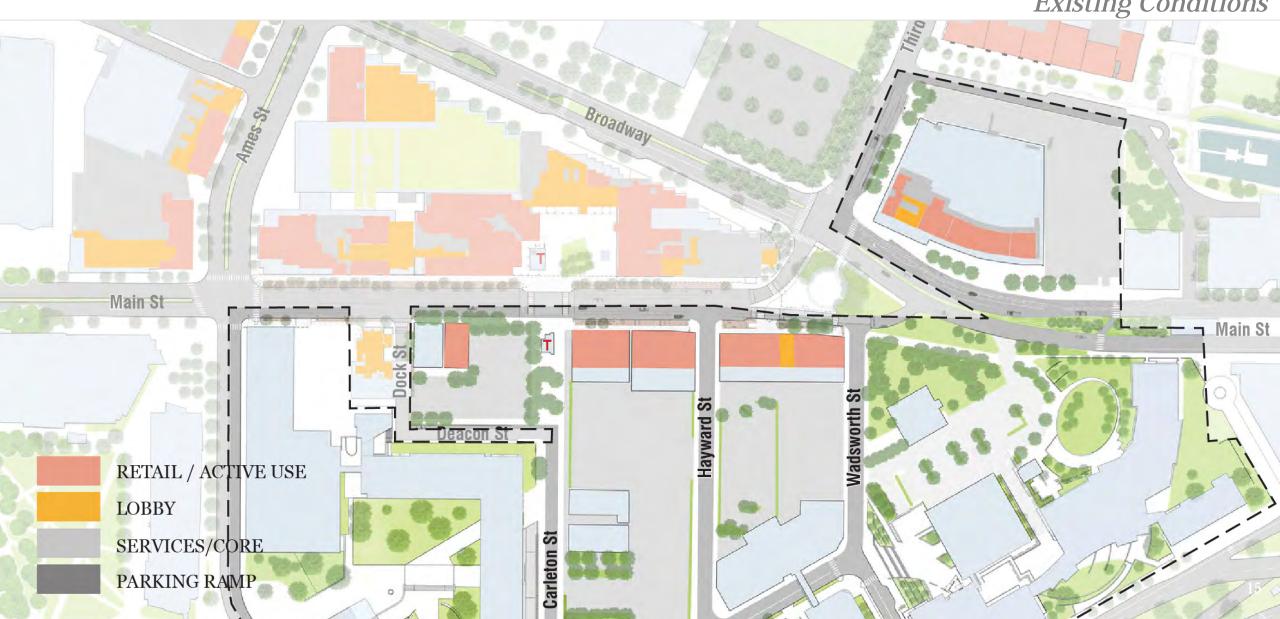


PROPOSED OPEN SPACE CONNECTIONS



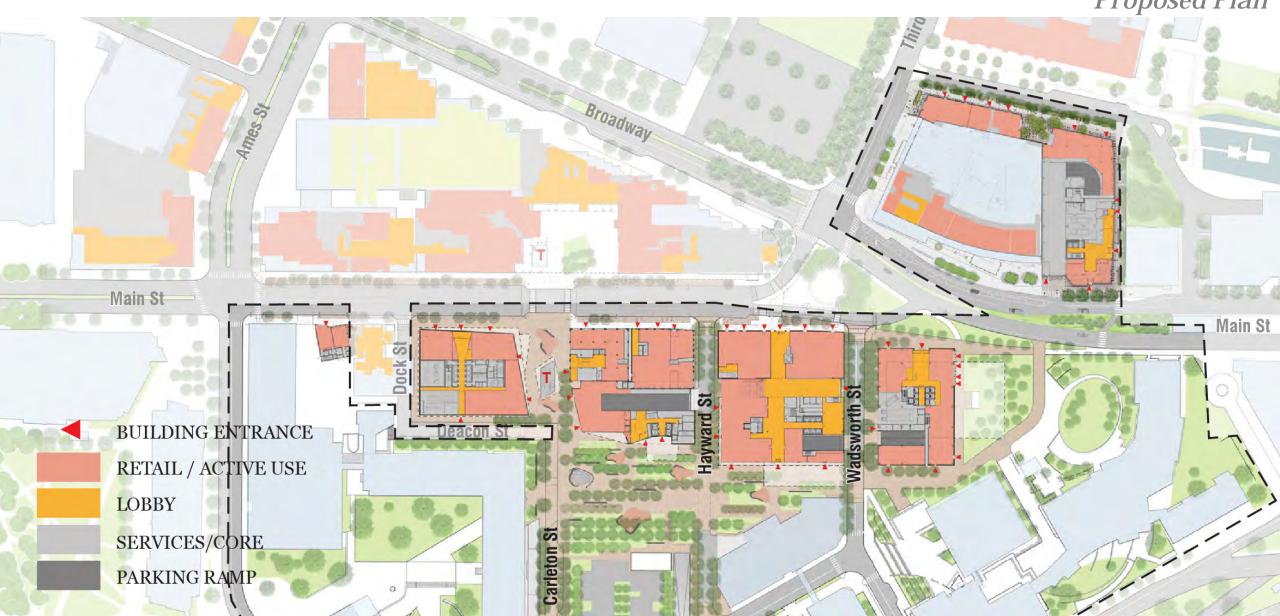


Existing Conditions

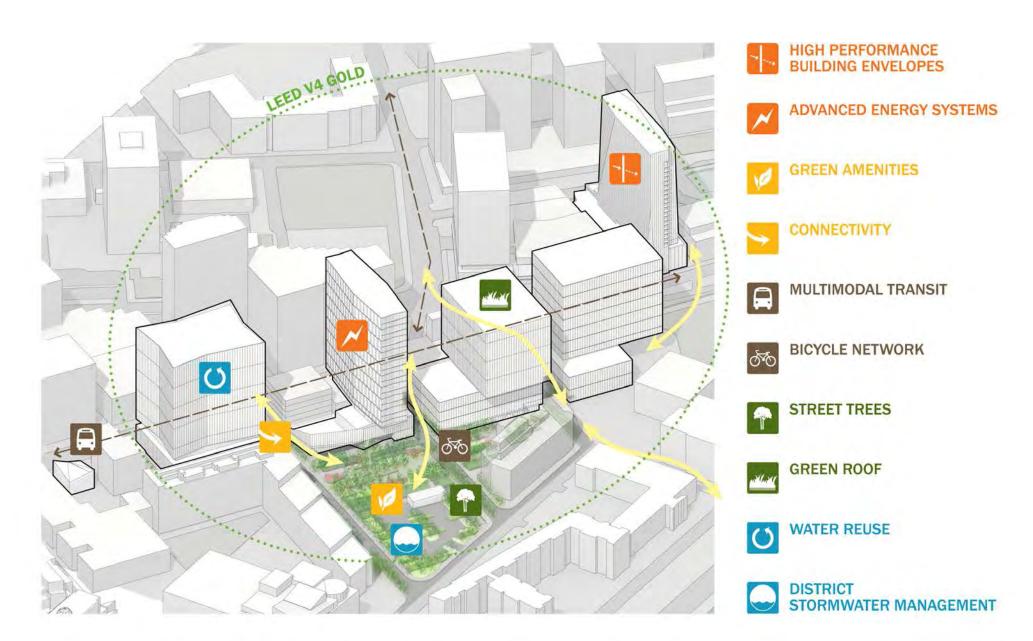


RETAIL AND ACTIVE USE

Proposed Plan



SUSTAINABILITY







- Ongoing discussions with City Departments
- Assessed existing sanitary, stormwater and water systems
- Municipal systems adequate for demand
- Conceptual plans for distribution and tie-in in PUD filings
- Coordinating design of new Main Street cross-walk







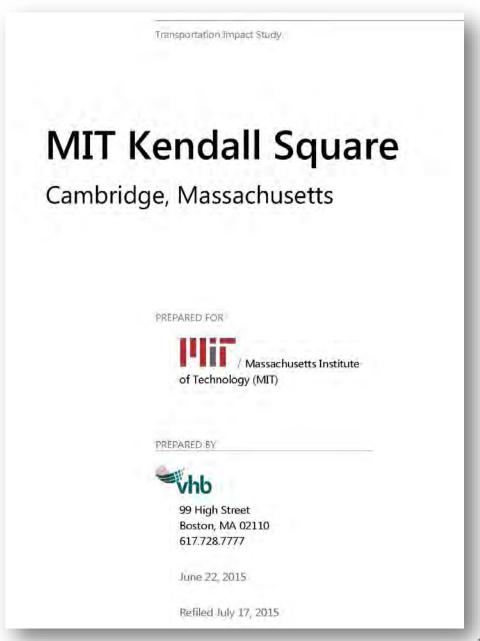






TRANSPORTATION

- Comprehensive TIS, including robust transit analysis, submitted June 22nd and certified July 21st
- Draft PTDM plan submitted August 25th
- Ongoing discussions with city staff on transportation improvements and PTDM measures





TRANSPORTATION

- Elimination of 114 surface parking spaces
- 65 net new parking spaces
- 0.52 spaces/unit proposed (179 spaces)
- Significant bicycle amenities
 - 323 long-term bike parking space in garages
 - 43 short-term surface bike parking space
 - Bike fix-it station, Hubway station
- Pedestrian improvements throughout the district









SCHEDULE AND PHASING

- Intention to move forward with Site 1 construction as soon as possible
- Construction of housing required before final commercial development can occur per zoning
- Will include all public realm, retail, and landscape improvements delivered with the housing





- Article 19 process consistency with Urban Design Objectives
- Review of traffic impact and mitigation
- Infrastructure and utilities
- Detailed review of open space/active space plans
- Public hearings on Final Development Plan



EXECUTING A COMMUNITY VISION

Broad Canal Way Looking West

