

Agenda

Data Sciences Center Project

Introduction

- Tim Czerwienski, AICP BPDA Project Manager
- Paul Rinaldi, Boston University

Building

Luigi LaRocca, KPMB Architects

Landscape

Skip Burck, Richard Burck Associates

Sustainability

- Jacob Knowles, BR+A
- Matt Smith, The Green Engineer

Transportation

Jay Doyle, AECOM

Warren Towers Digital Signage

Paul Rinaldi, Boston University

Lead Consultants

Data Sciences Center Project

KPMB Architects

Fort Point Associates Planning and Permitting

Architect

Richard Burck Associates Landscape Architect

Bard, Rao + Athanas Consulting Engineering MEP Engineers

AECOM Transportation

Transsolar KlimaEngineering Sustainability Engineers

Geotechnical & Geothermal Haley & Aldrich

Nitsch Engineering Civil Engineer

Suffolk Construction Pre-Construction Services

The Green Engineer LEED Consulting

2013 -2023 IMP Projects

Campus Development

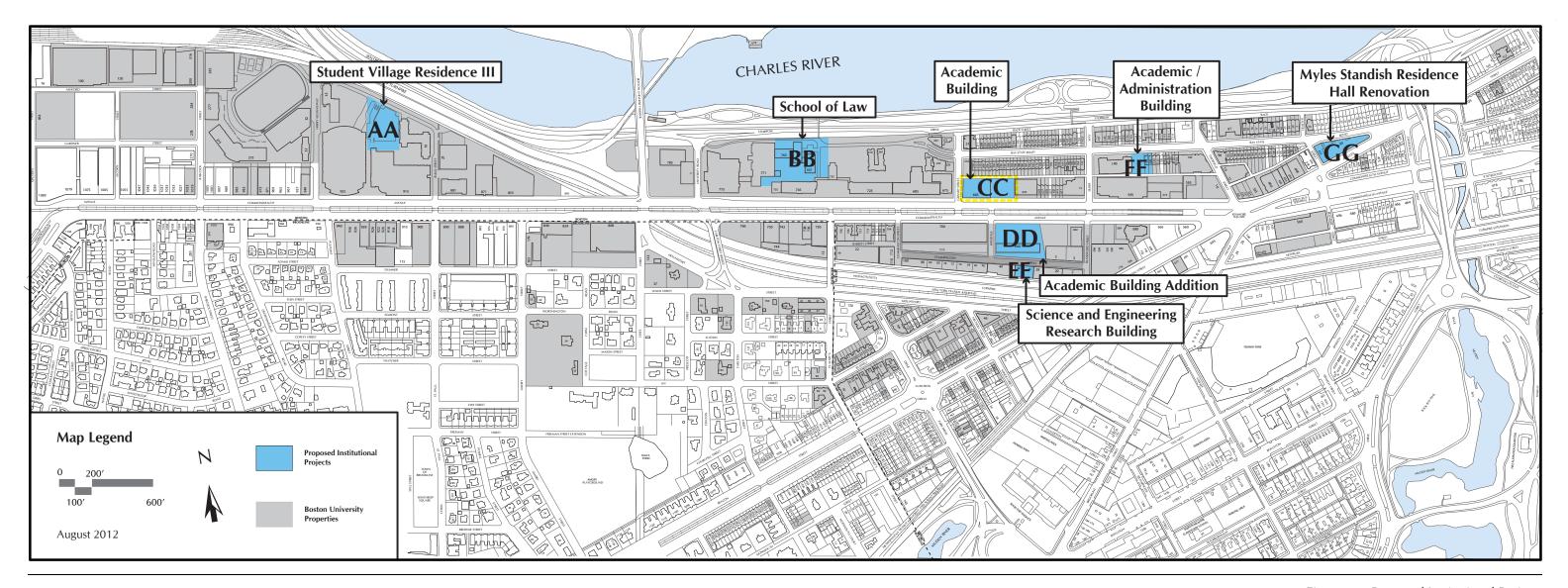


Figure 5-1, Proposed Institutional Projects 2012-2022 Institutional Master Plan **Boston University Charles River Campus**

Boston University Data Sciences Center

2013 -2023 Boston University Charles River Campus **Institutional Master Plan Fifth Amendment -Site CC**

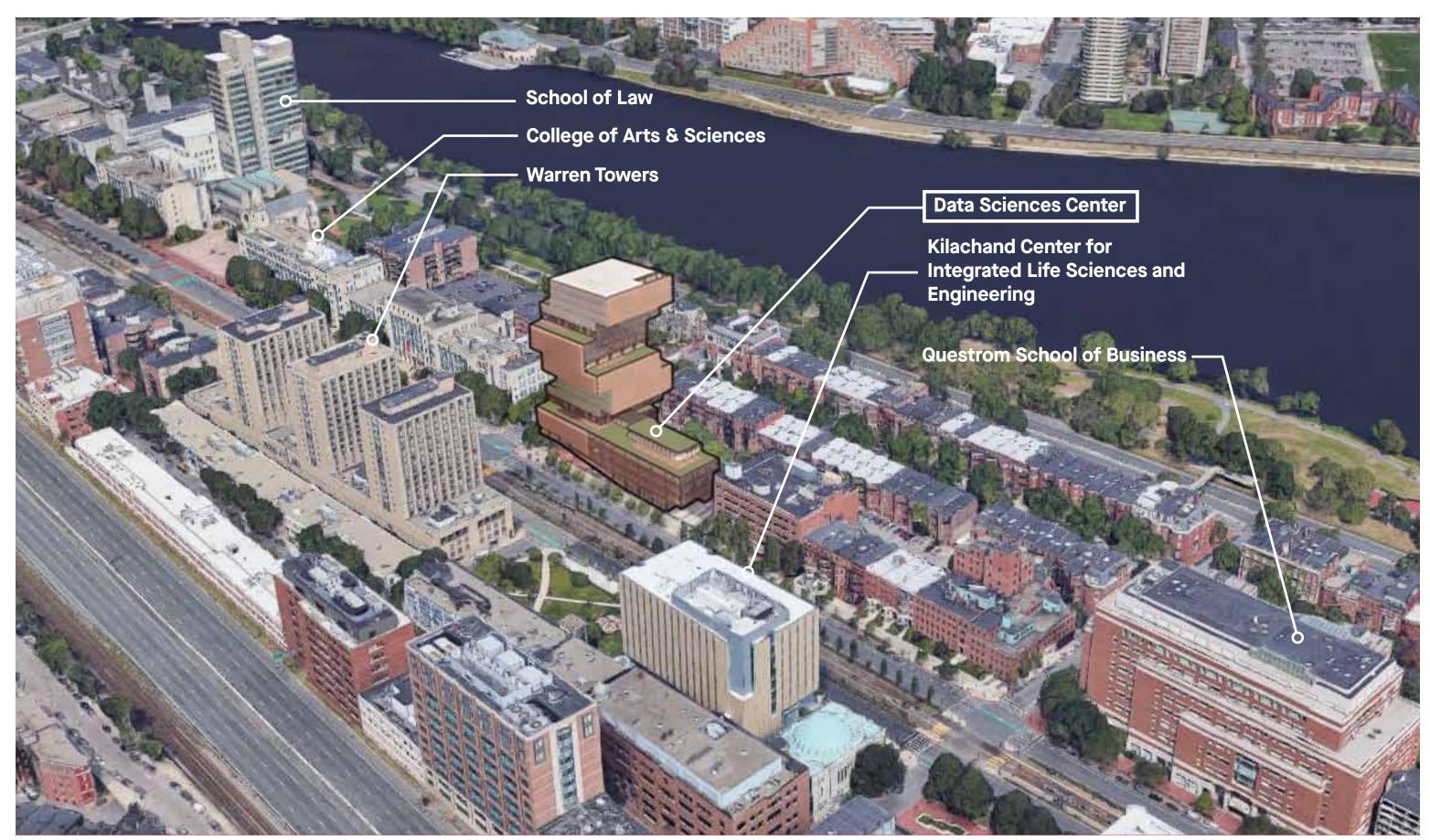
2013 - 2023 IMP Projects	Proposed Changes
645/665 Commonwealth Ave.	
42,000 square feet	47,700 square feet
Institutional Use- academic, instruction research office, ancillary, parking (300 cars)	no on-site parking
15 stories, 225 feet	19 stories, 305 feet
350,000 square feet	
8.4	
(H-4 Underlying Zoning) IMP Area	
	645/665 Commonwealth Ave. 42,000 square feet Institutional Use- academic, instruction research office, ancillary, parking (300 cars) 15 stories, 225 feet 350,000 square feet 8.4 (H-4 Underlying Zoning)



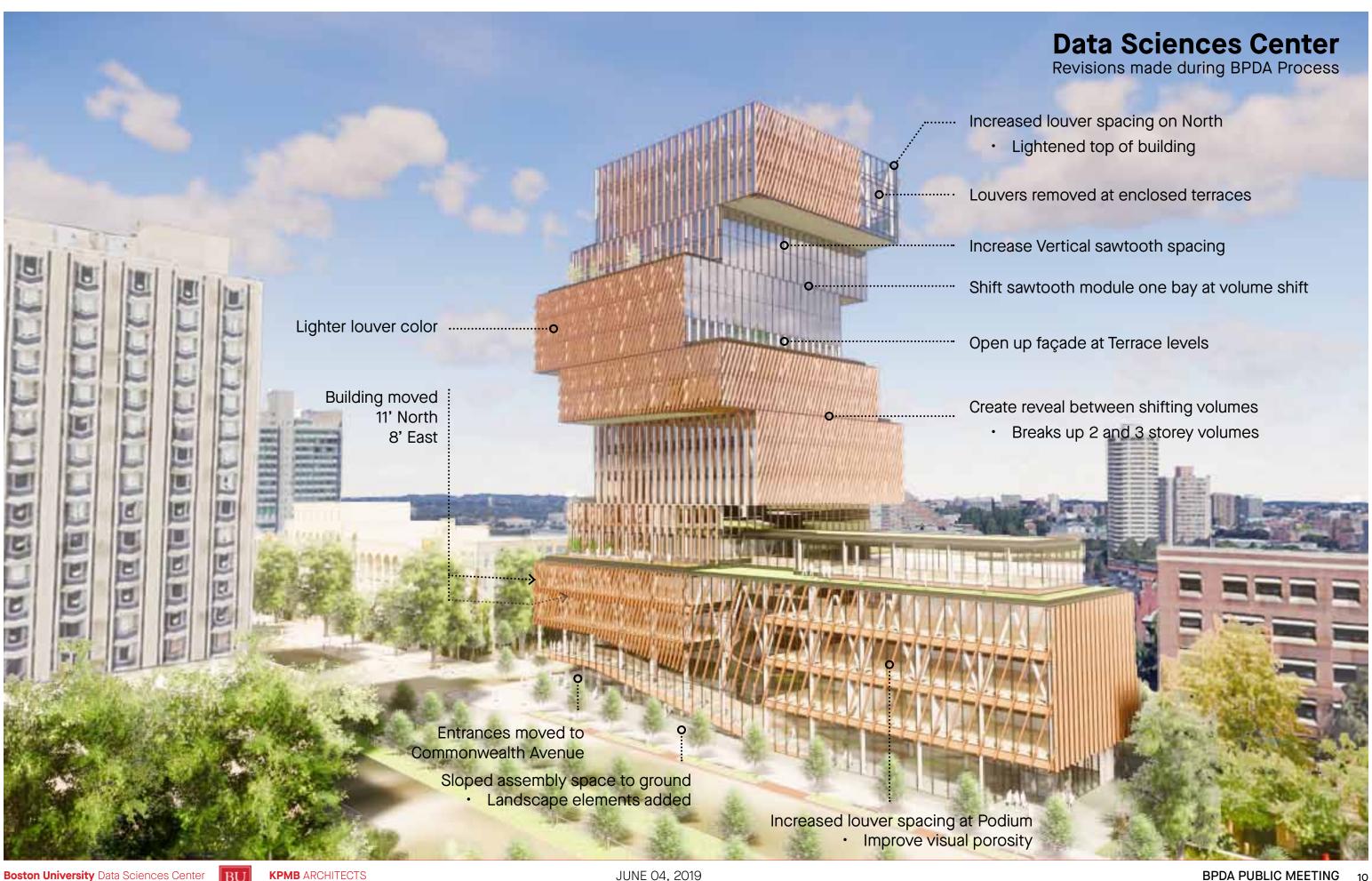
Project Goals

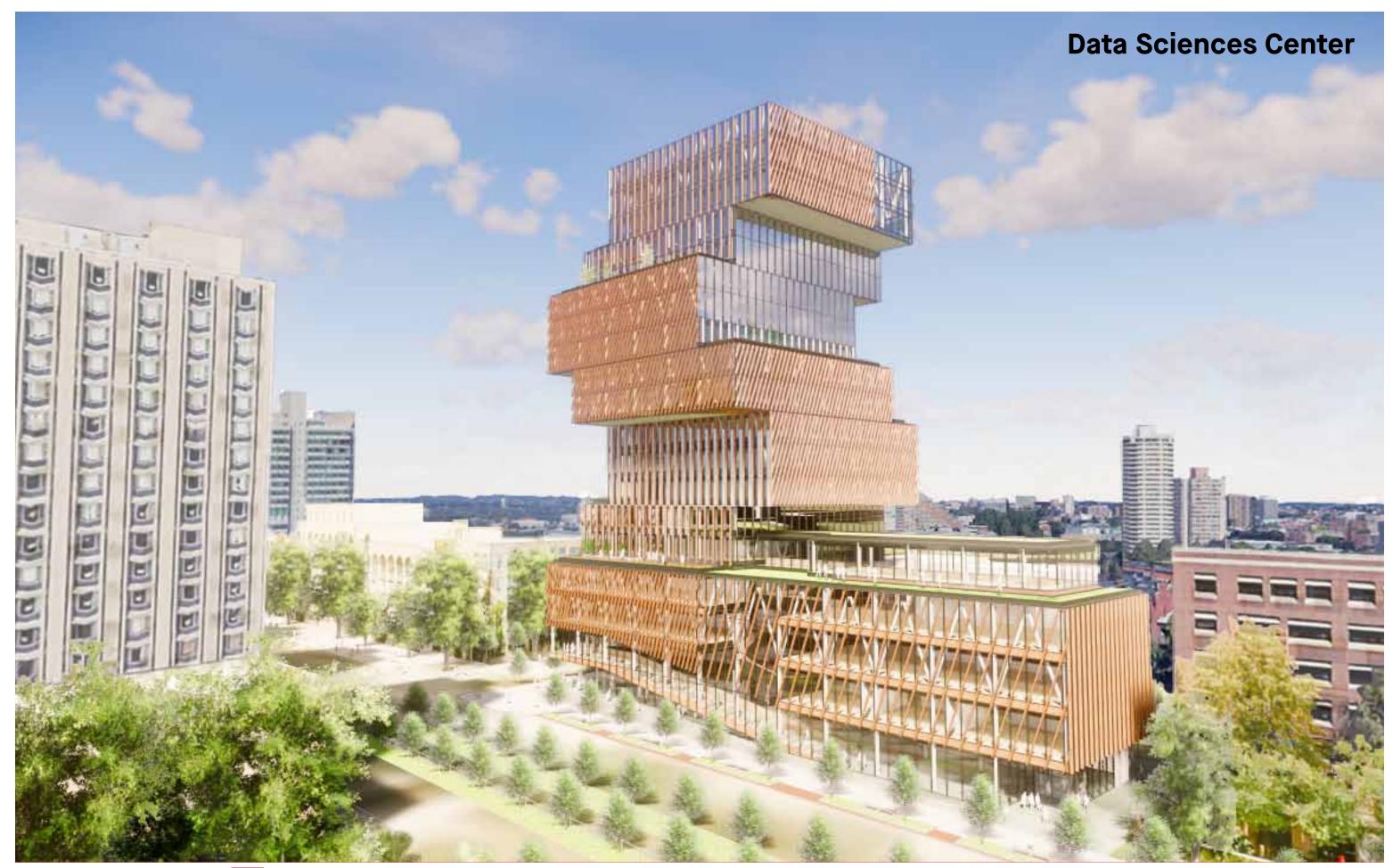
- Develop a hub for the core fields associated with the interdisciplinary study of data sciences;
- Develop instructional spaces that support contemporary approaches to teaching and learning;
- Through the use of innovative design and technologies, construct one of the most sustainable buildings in the area;
- Enhance the urban fabric of Commonwealth Avenue by replacing a surface parking lot with a project that engages with the public realm on its first floor and adjacent spaces; and
- Create a creative and exciting addition to the skyline of Boston.

Project Context

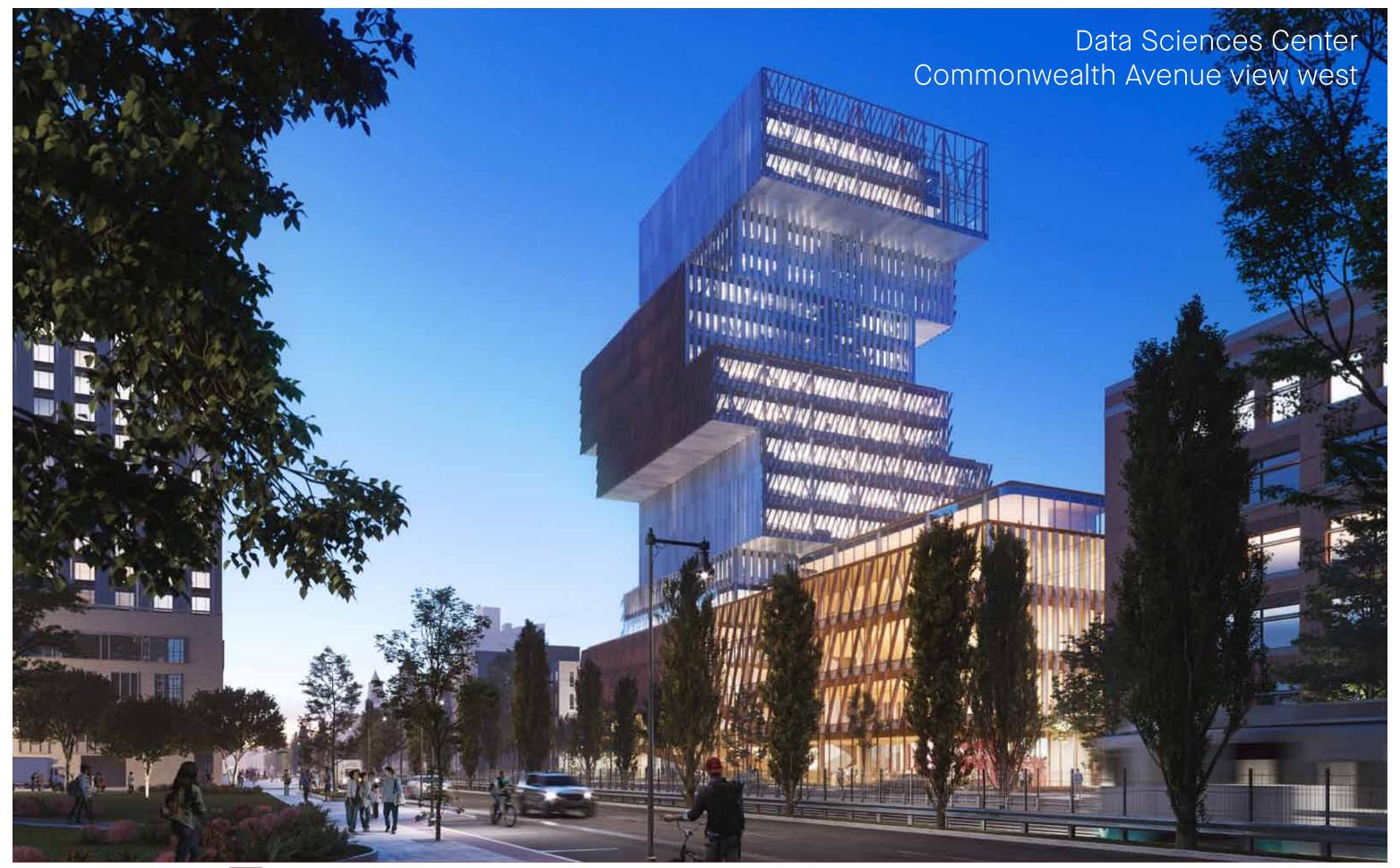










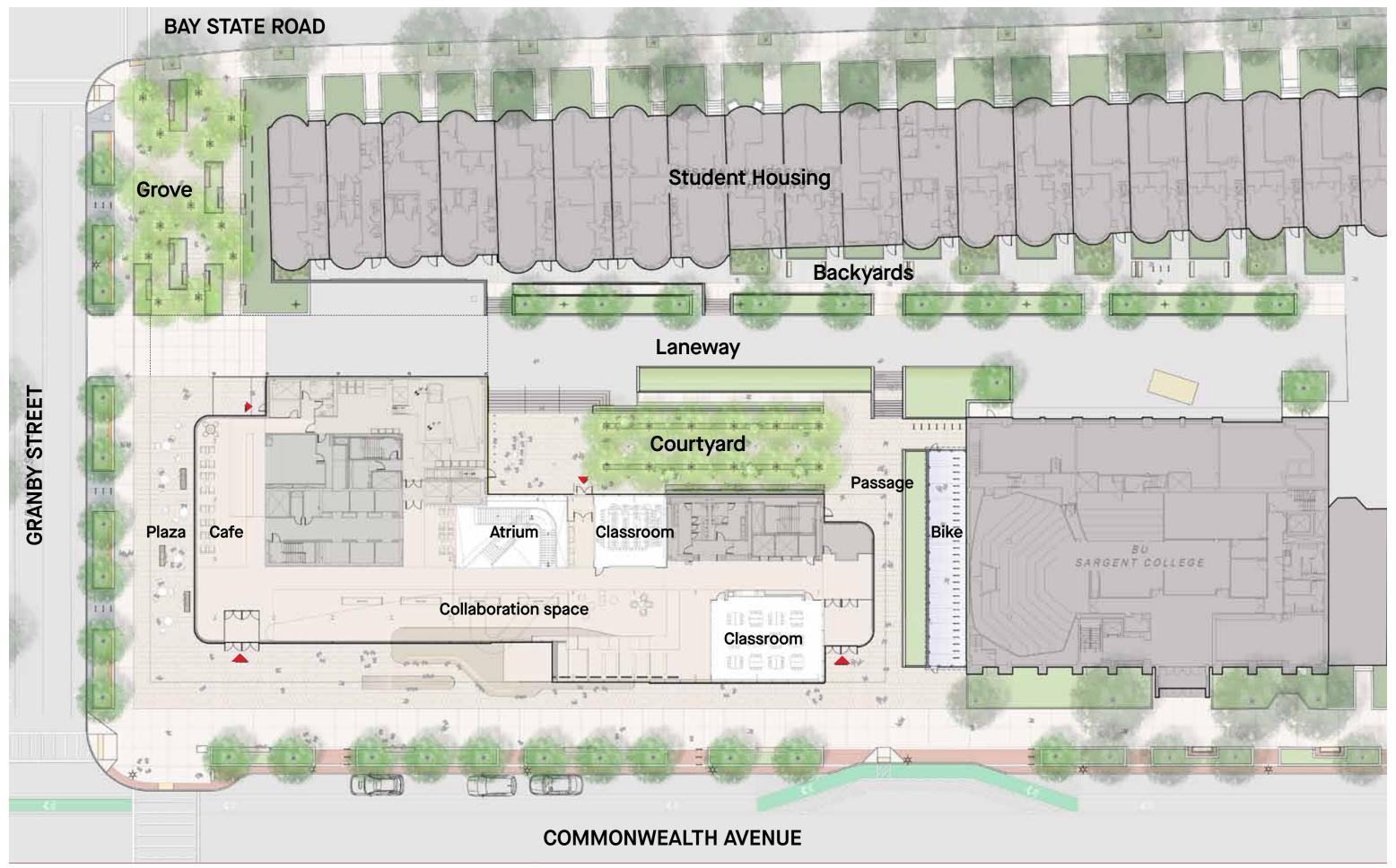


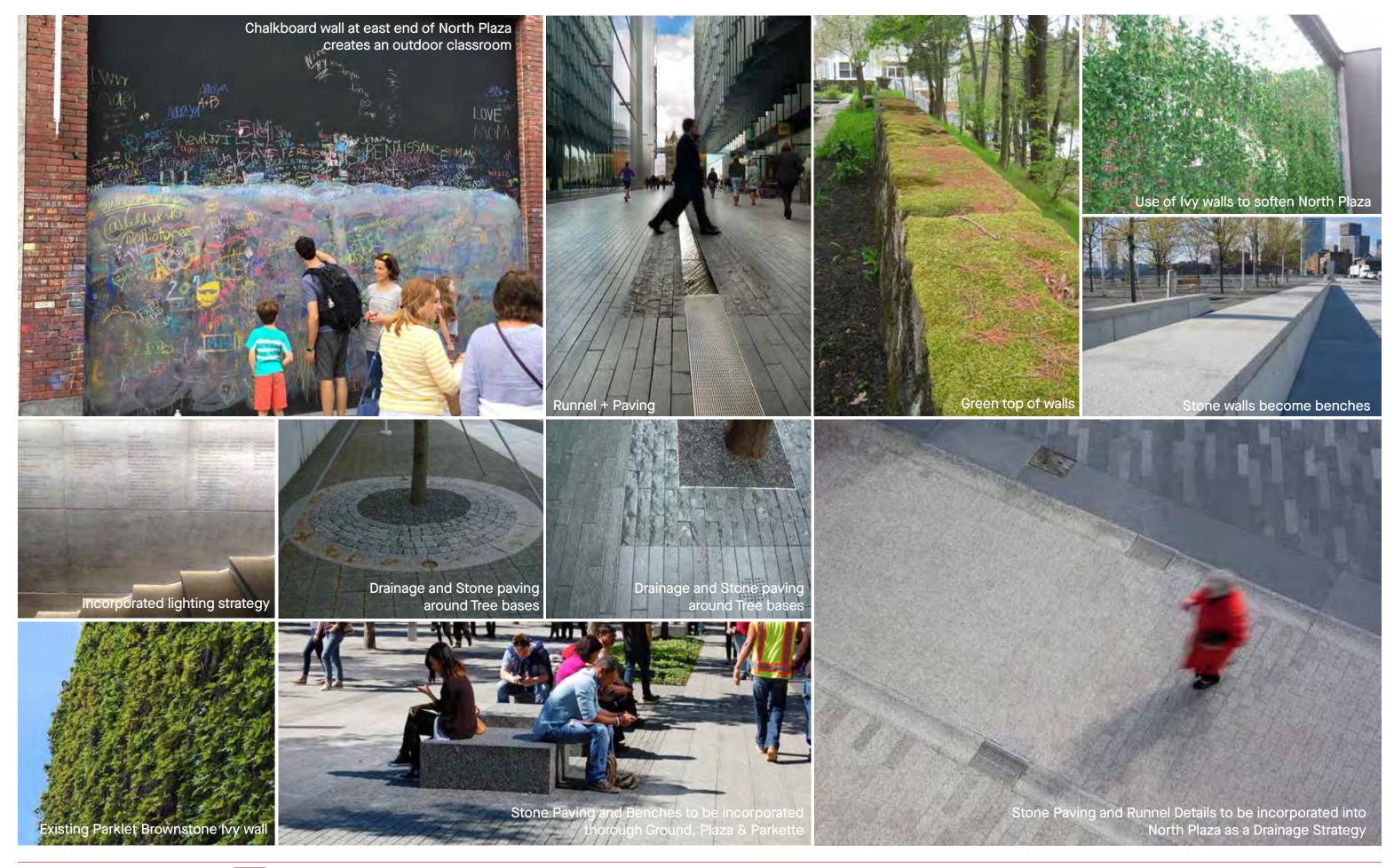


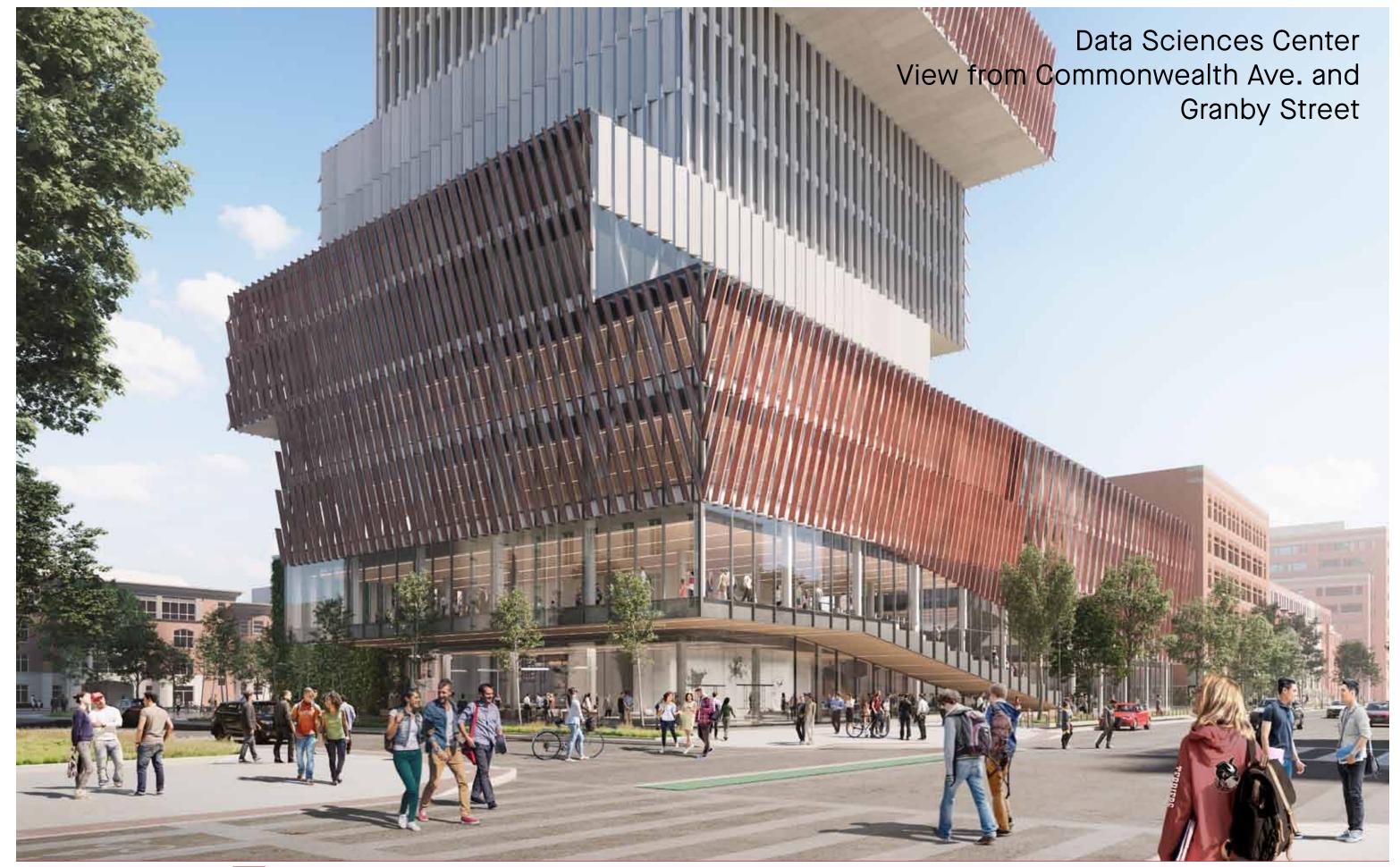




Public Realm Landscape

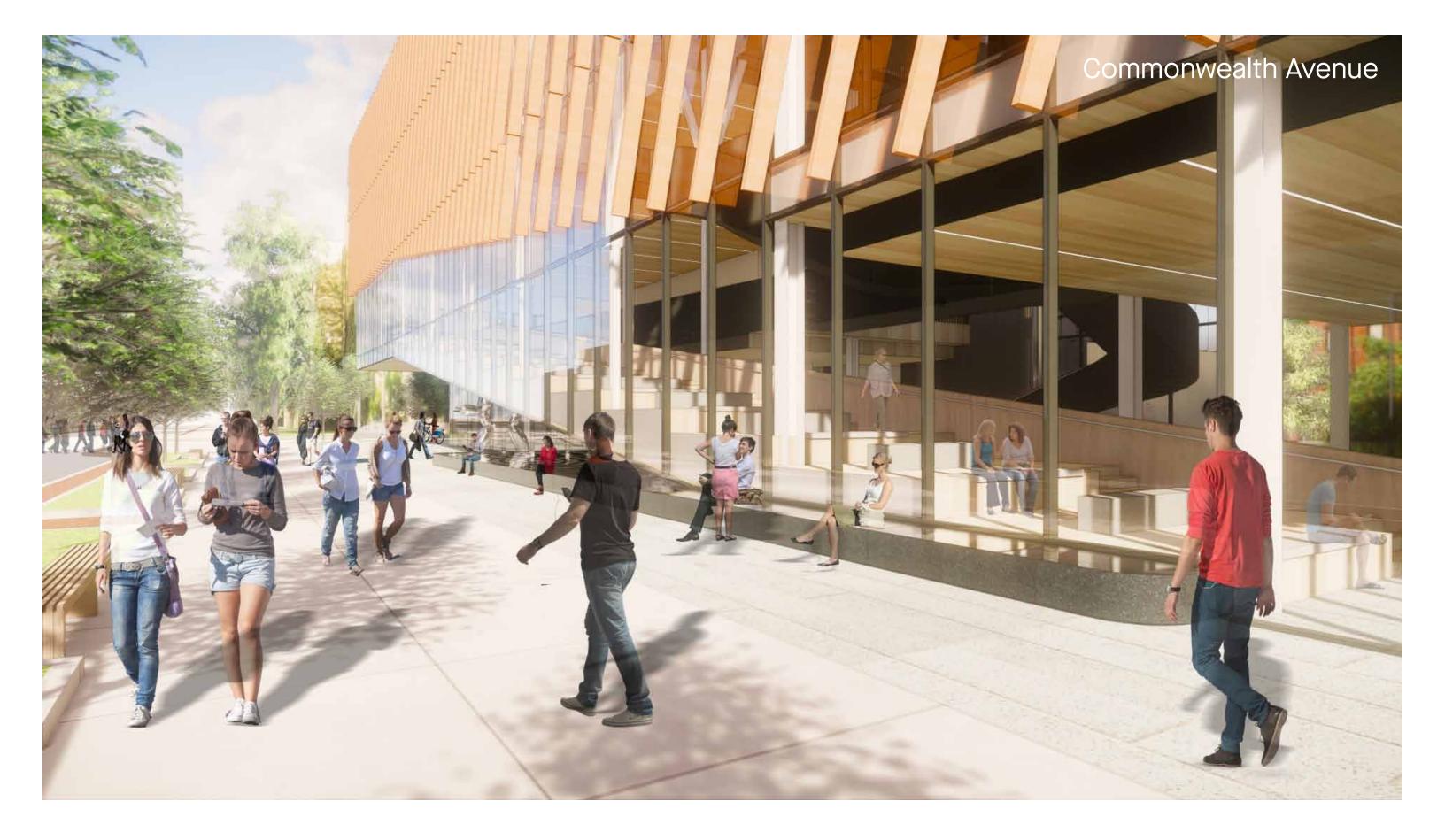












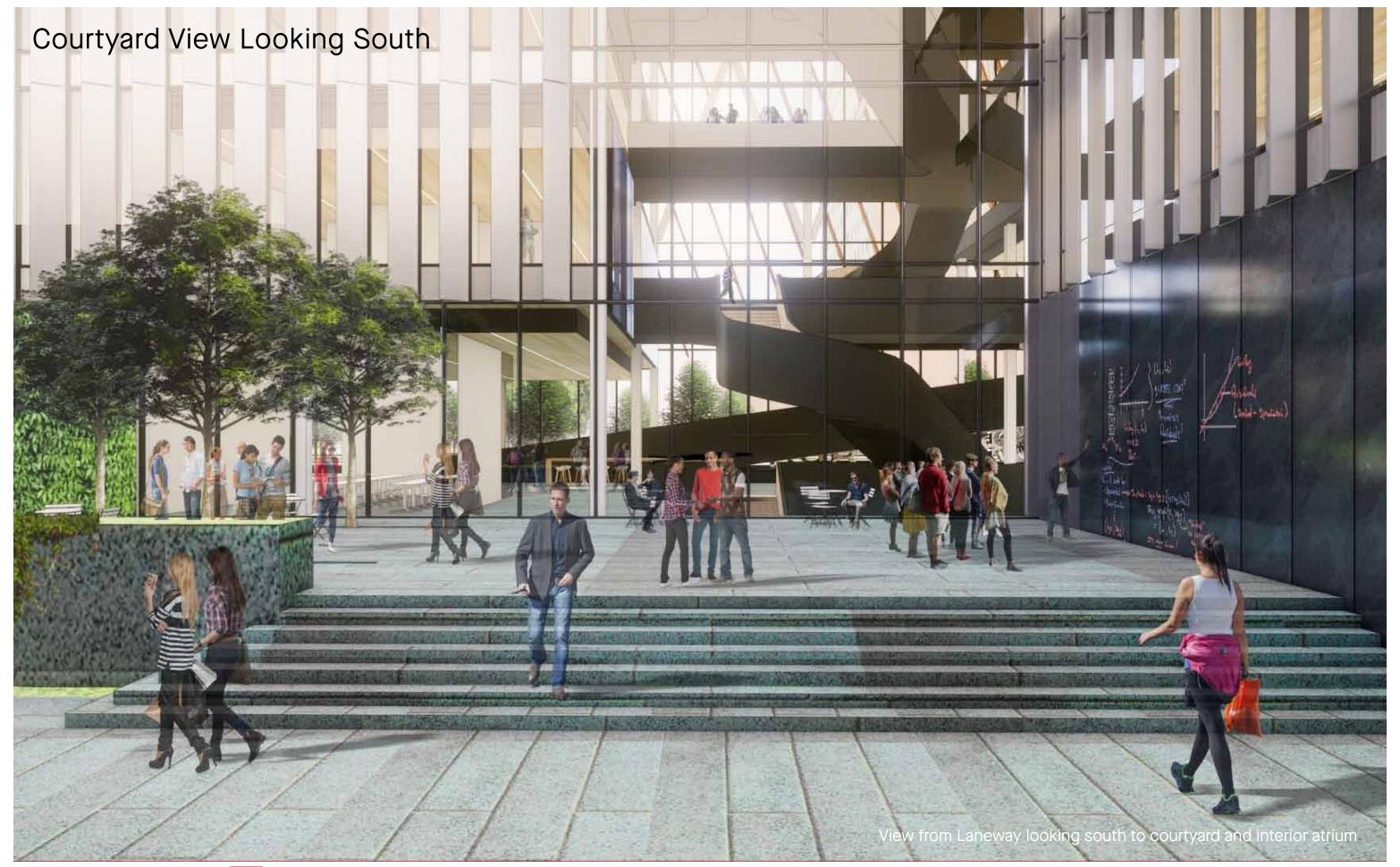
Commonwealth Avenue view looking West



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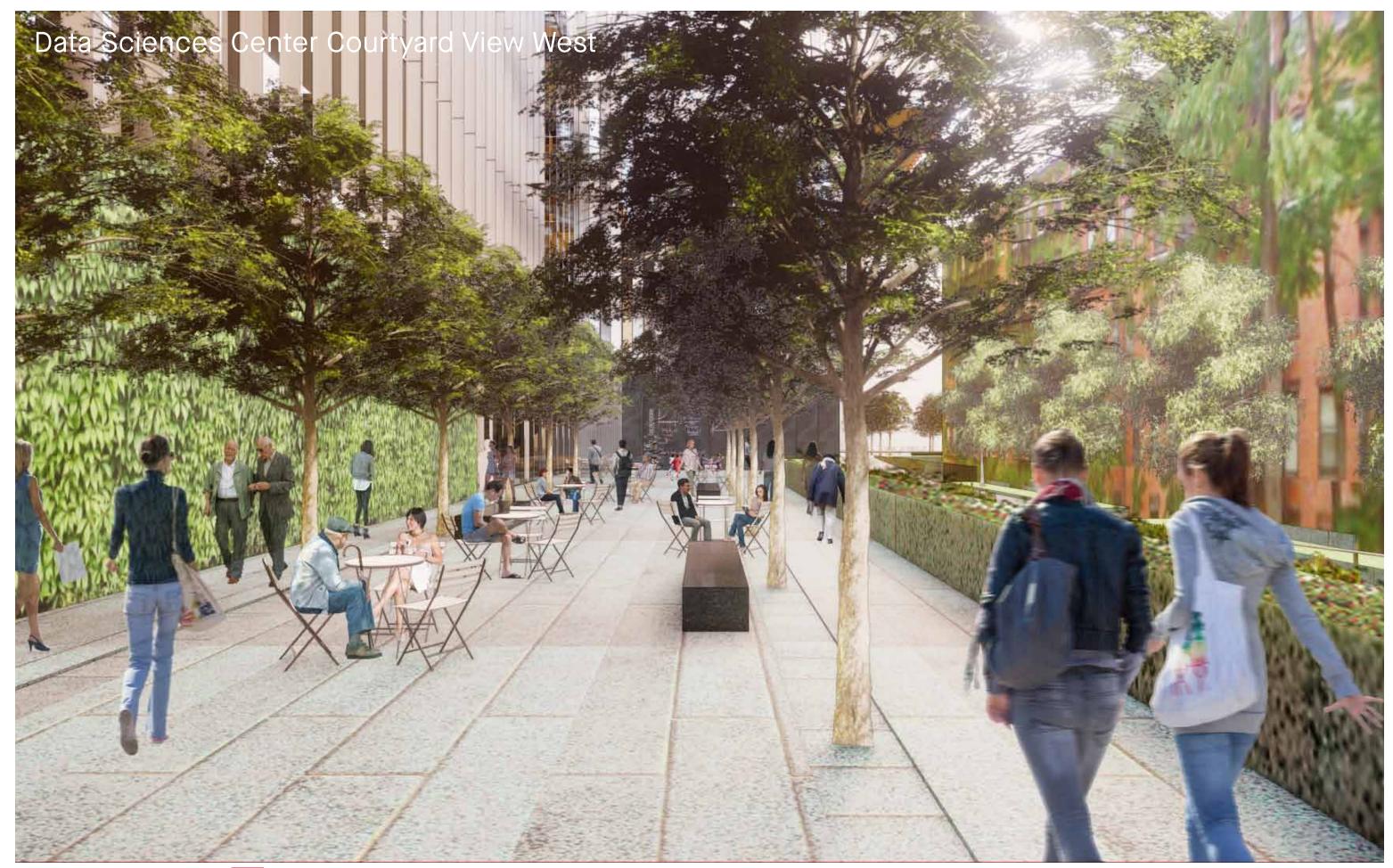






















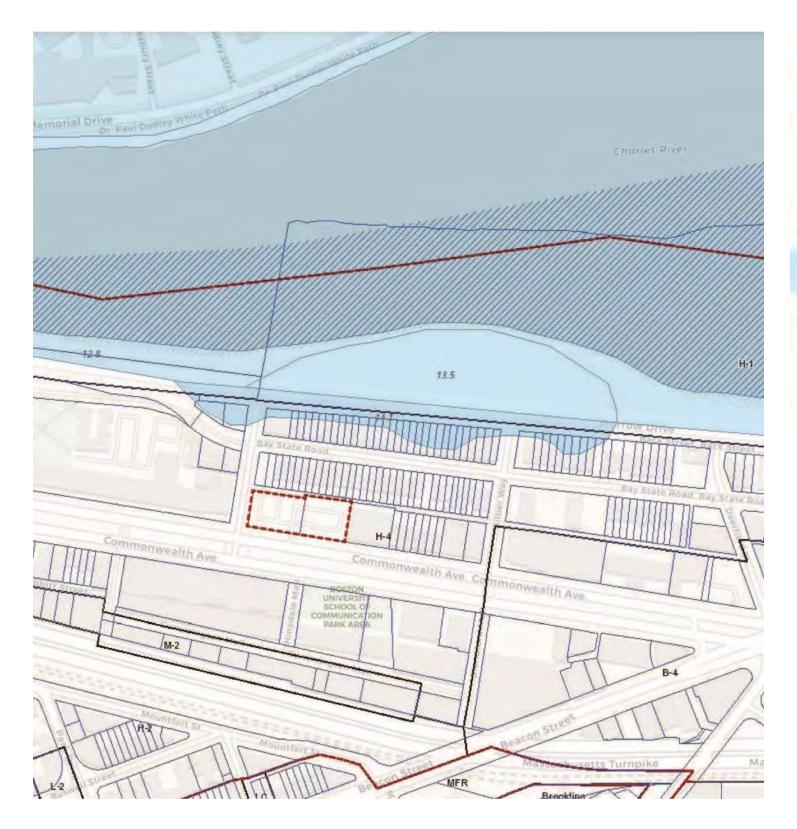


Sustainability

Sustainability Measures

- Consistency with University's 2017 Climate Action Plan
- Meets Goals for Sea Level Rise with Ground Floor Elevation 21.25'
- Target LEED Platinum
- Renewable and Alternative Energy Sources
 - Energy Credits from S. Dakota Wind Farm (Power Purchase Agreement)
 - Geothermal wells
 - Campus PV initiative
- Triple Glazing with Minimal Perimeter Radiation
- Cutting Edge Building Shading Systems
- Groundwater Recharge Systems

Climate Resiliency – Boston Zoning Map



Data Sciences Center Ground Floor	21.25'
MIT Design Elevation	20.8'
BU Design Flood Elevation (TBC)	20.0'
BPDA Design Flood Elevation	16.1'
FEMA Base Flood Elevation	10.46'
*all elevations shown relative to Boston City Base	

Data Sciences Center, 665 Commonwealth Avenue is not within a FEMA SFHA or a BPDA SLR-FHA

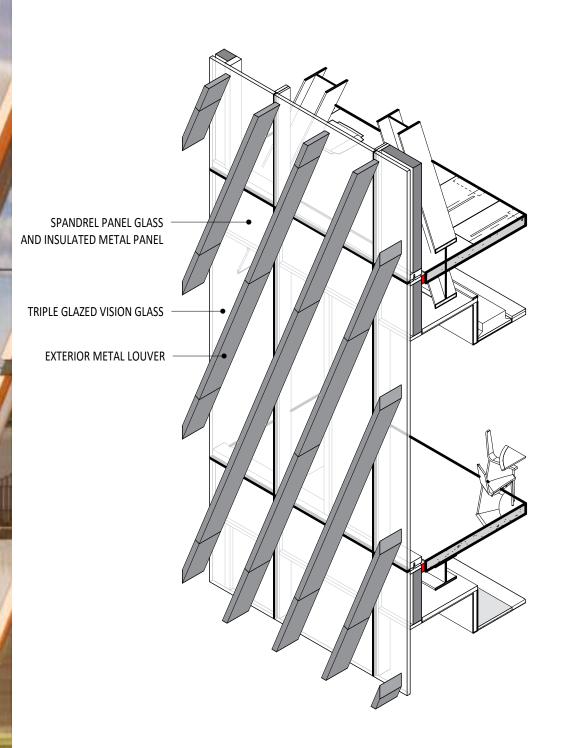
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SFHA = Special Flood Hazard Area SLR-FHA = Sea Level Rise Flood Hazard Area

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Solar Shading

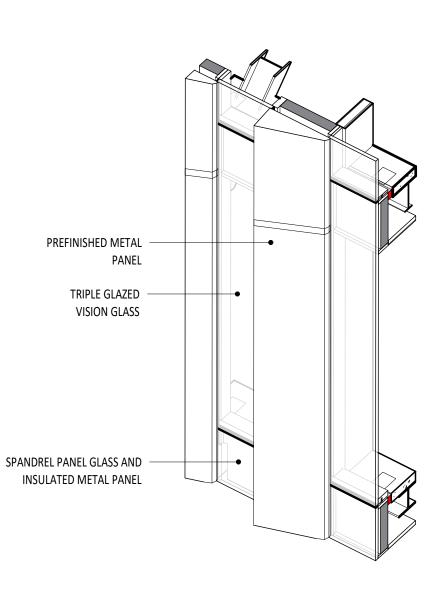
Diagonal Louvered Facade



A diagonal louver in front of 60% glazing is used in the deeper floorplate zones to cut out solar gain and drive daylight deep into the plan

Solar Shading

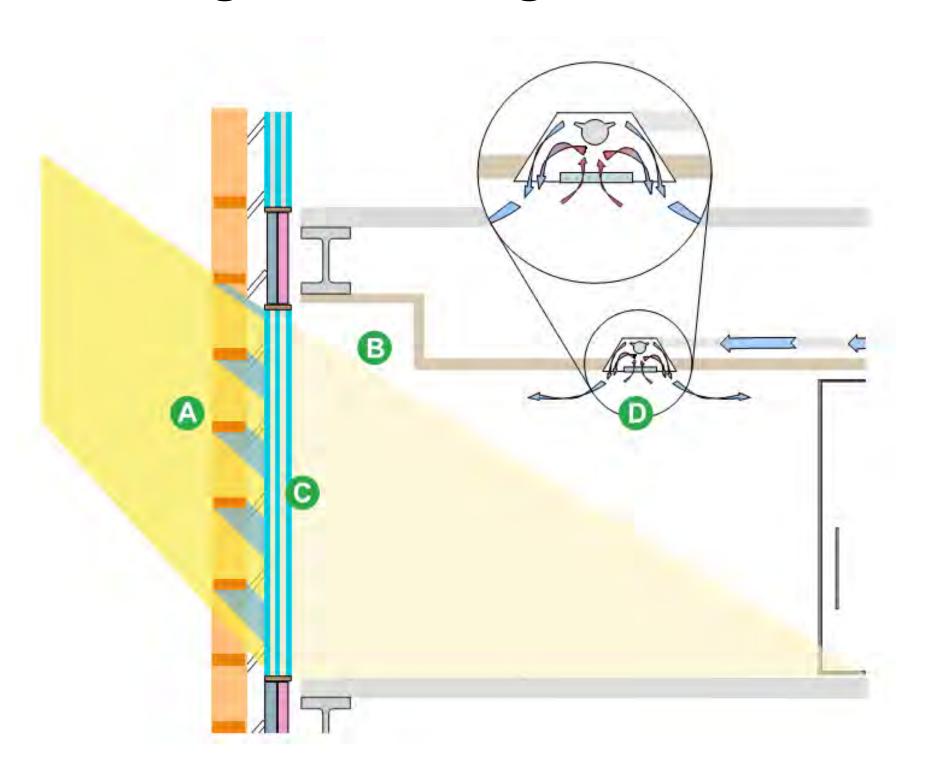
Sawtooth Facade

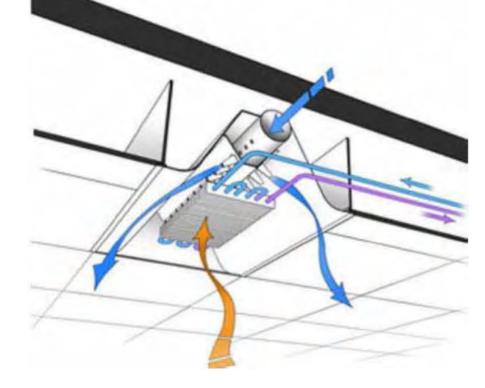


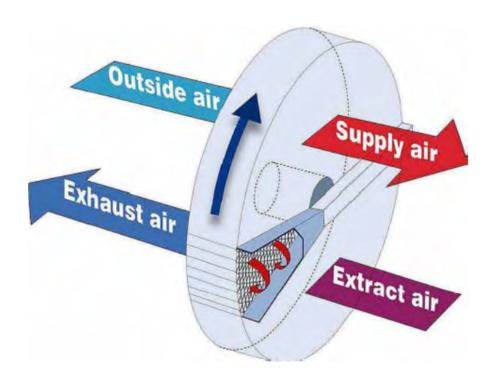
A vertical sawtooth with 50% glazing is used on the shallow single bay floor plate zones where daylight does not need to penetrate as deep into the floor.

High Performance Envelope and High Efficiency

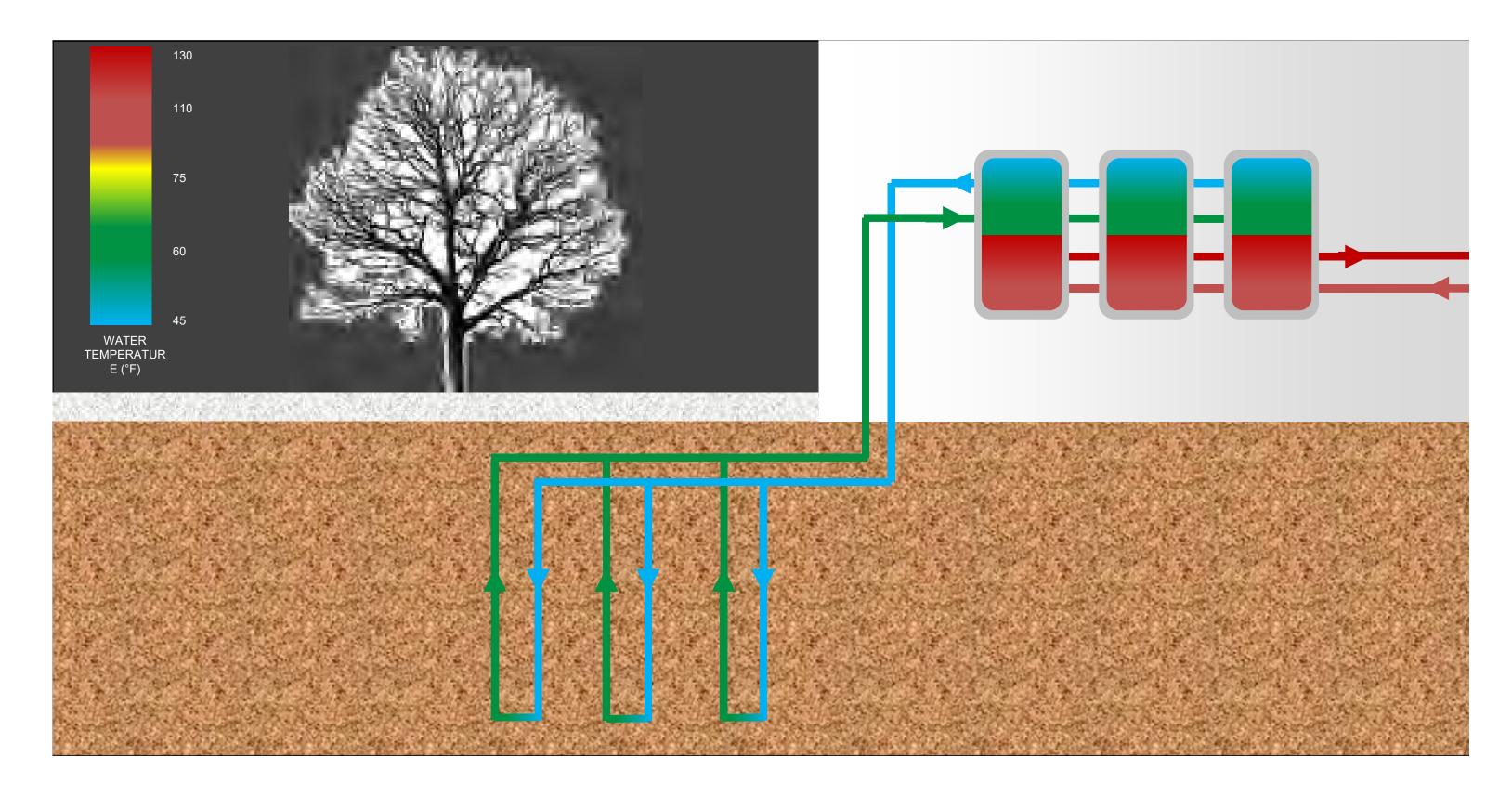
Heating and Cooling







Ground-Source for Cooling and Heating (Closed Loop)



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Transportation

Charles River Campus TDM – Robust and Successful

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Incentives

- Ride Matching
- Carpool Parking
- Discounted and Pre-Tax MBTA Passes
- ➤ MBTA Parking Pre-Tax Benefit
- > Bike Commuter Reimbursement
- BLUEbike Discount
- Market-rate Parking Discourages Unnecessary Trips

Additional Features

- Boston University Shuttle (BUS)
- Bicycle Facilities and Storage
- Bicycle Safety Programs
- Guaranteed Ride Home
- Zipcar

Boston University Data Sciences Center







Multi-Modal Accessibility



- **Bus Stop**
- **BU Shuttle Stop**
- Green Line Stop
- Commuter Rail Station
- Zipcar Location
- **BLUE**Bikes Locations
- Green Line MBTA Bus Route
 - **BU Shuttle Route**

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Green Line B Branch

3 stops within a ¼ mile radius, runs every 6 mins

Bus Routes 57/57A

Every 10-16 mins

Free BU Shuttle Service (BUS)

Every 10 mins with late night service 7 days/week

Bicycle sharing services:

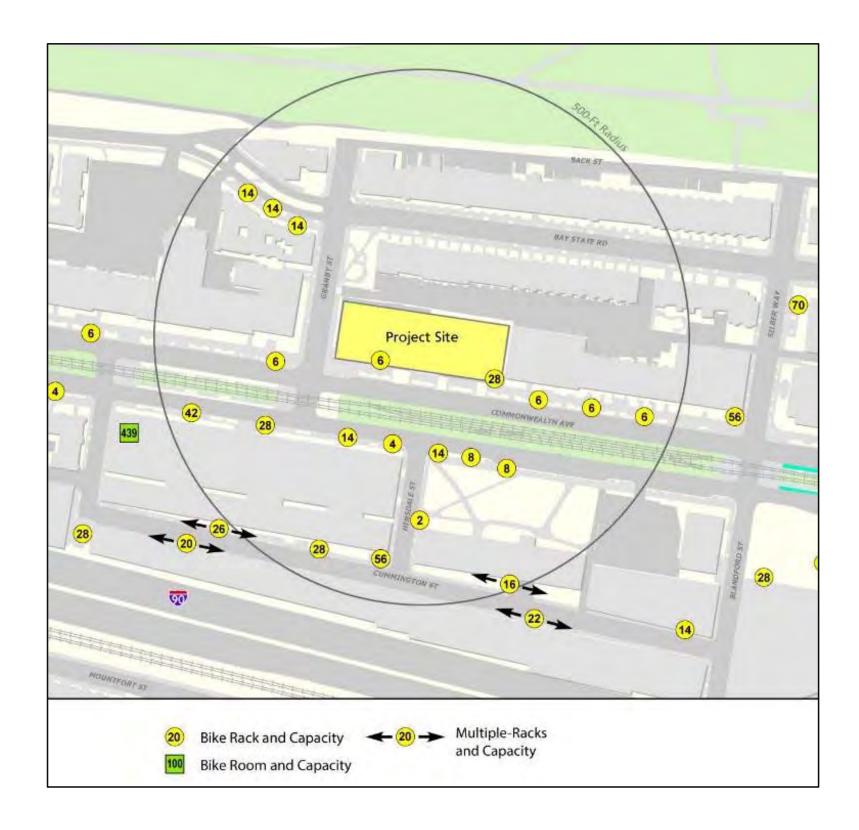
4 BLUEbike stations near the site

Framingham/Worcester Line

Yawkey Station

Plus route CT2/47 and Kenmore Square Transit Hub just over ¼ mile to the west and east, respectively

Existing Bicycle Facilities

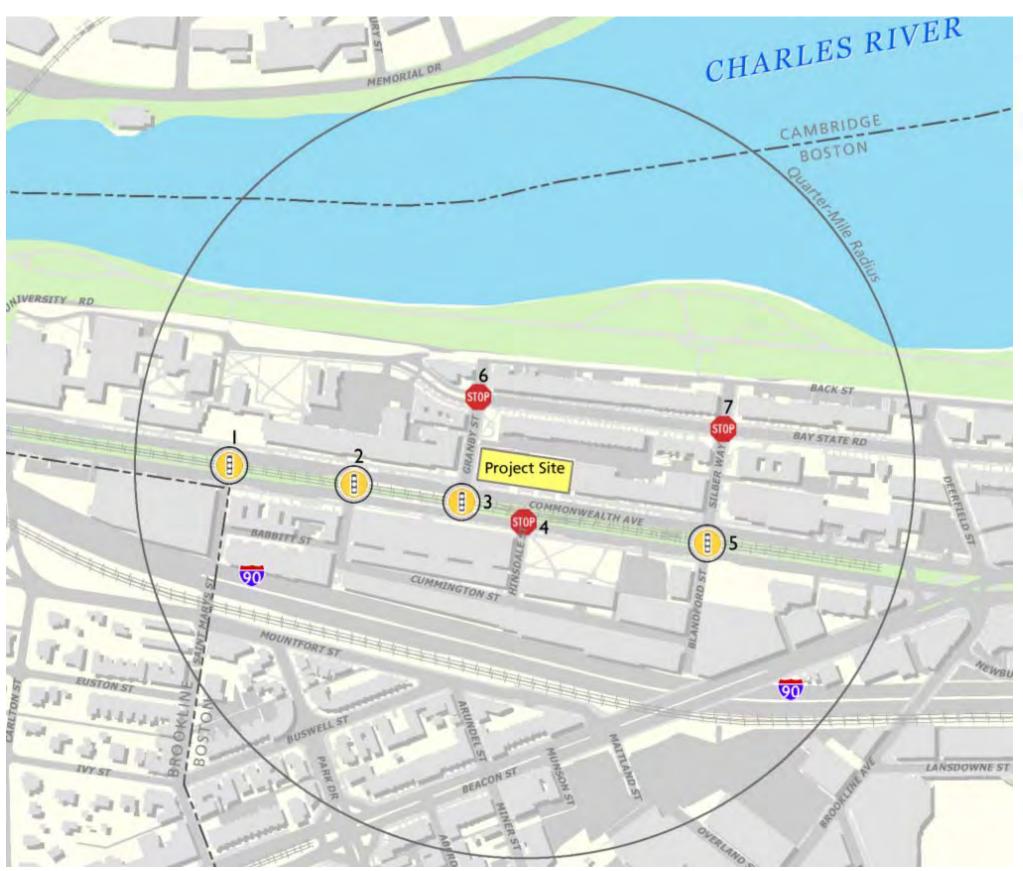


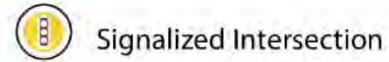
Bicycle racks and storage rooms available near the Project Site:

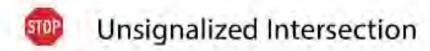
- Several on-street bicycle racks within a 500-foot radius with a total storage capacity of approx. 330 bikes
- Painted bike lanes along both sides of Commonwealth Avenue
- Bicycle storage rooms



Existing Traffic Study Network

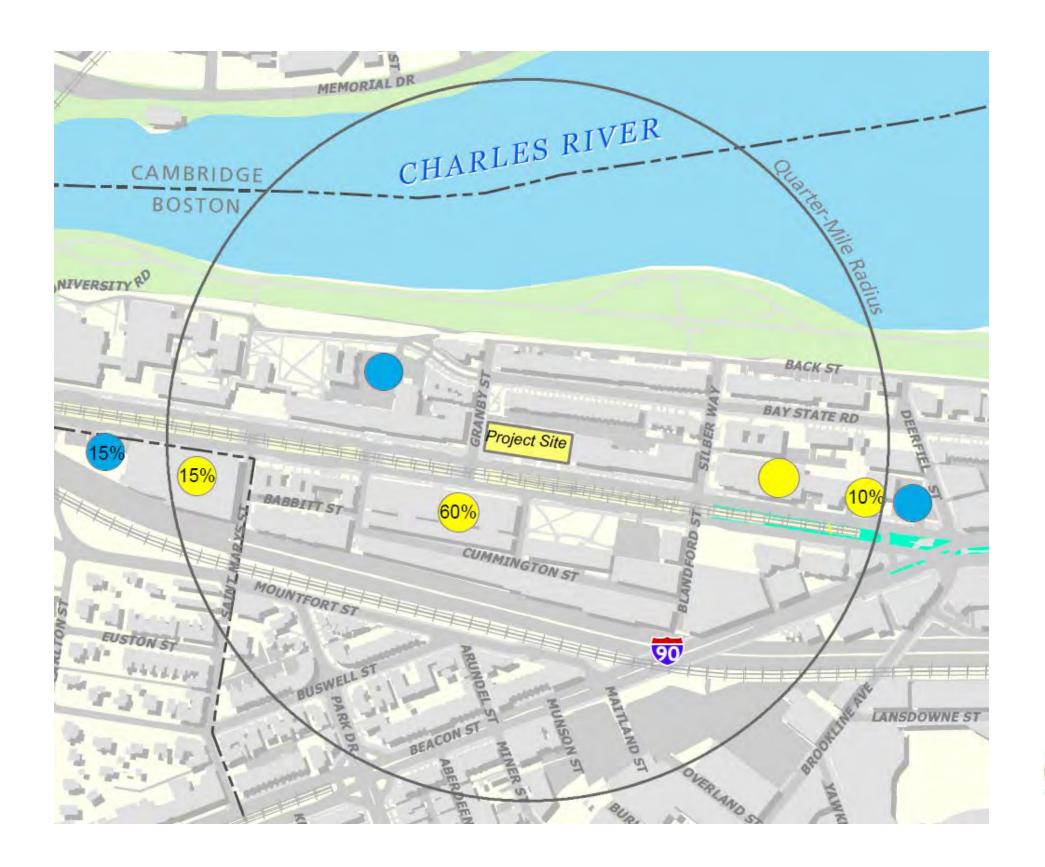






- Commonwealth Ave/St Marys St
- Commonwealth Ave/Cummington Mall
- Commonwealth Ave/Granby St
- Commonwealth Ave/Hinsdale Mall
- Commonwealth Ave/Silber Way/Blandford Mall
- Granby St/Bay State Rd
- Silber Way/Bay State Rd

Trip Distribution to/from Parking



Conservative Traffic Analysis Assumptions

- > All trips sent to lots with capacity at or within a ¼ mile of Site
- > Trips sent through turning movements



Garage



Surface

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Parking Overview

Parking Removed

- 126 off-street spaces (Granby Visitor Lot)
- 35 reserved off-street University permit spaces (private laneway north of Site)
- 21 on-street metered spaces along Granby Street

Total Parking Utilization (2018)

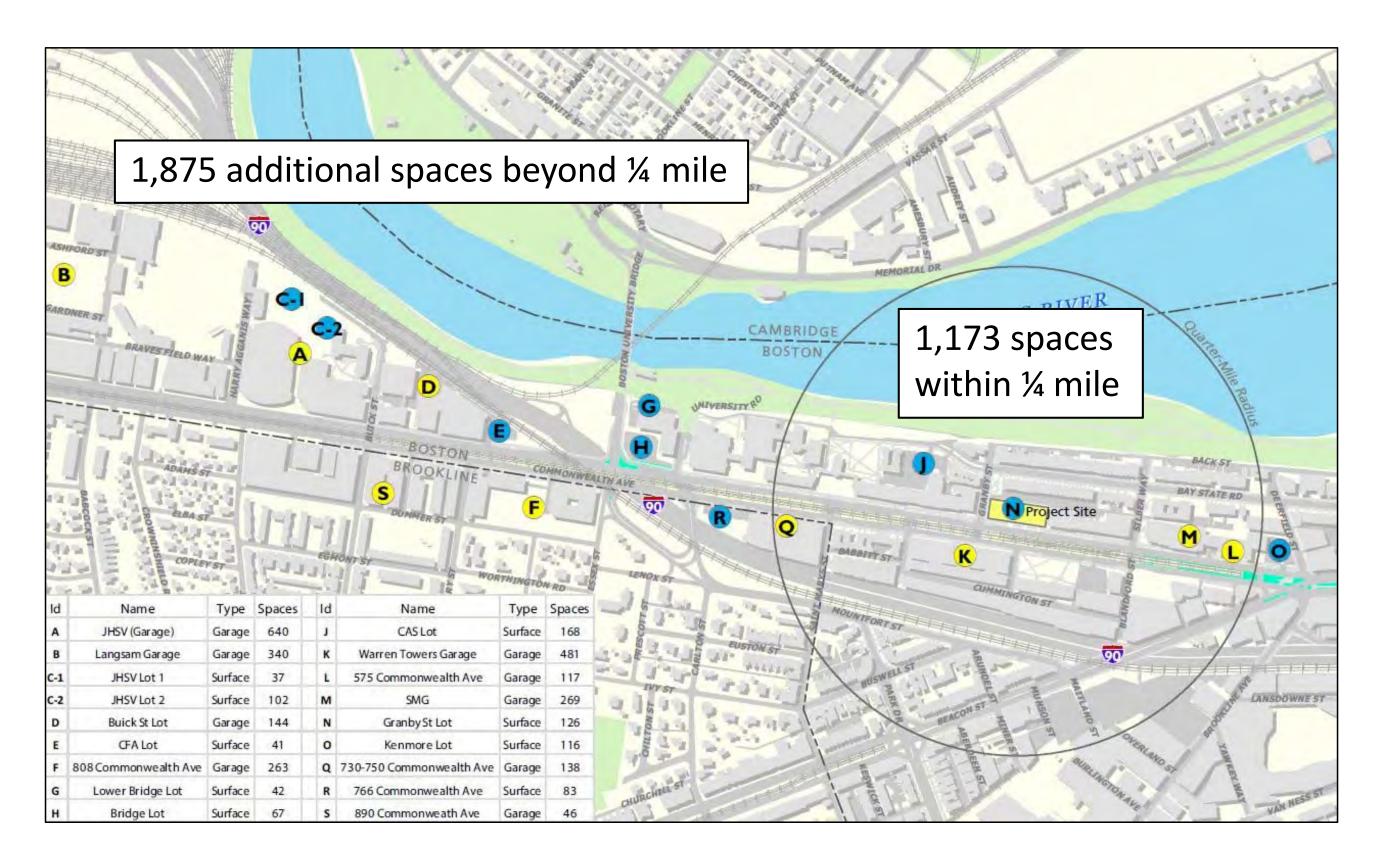
CRC Campus off-street, general-use parking is 21% available at peak.

- West Campus 30% available (466 spaces)
- Central Campus 15% available (169 spaces)
- South/East Campus 9% available (58 spaces)

Parking Demand Declining

- 10% reduction on CRC Campus from 2016-2018
- Achieved through a robust TDM program

Existing Off-Street Parking Facilities



Granby Street Conversion

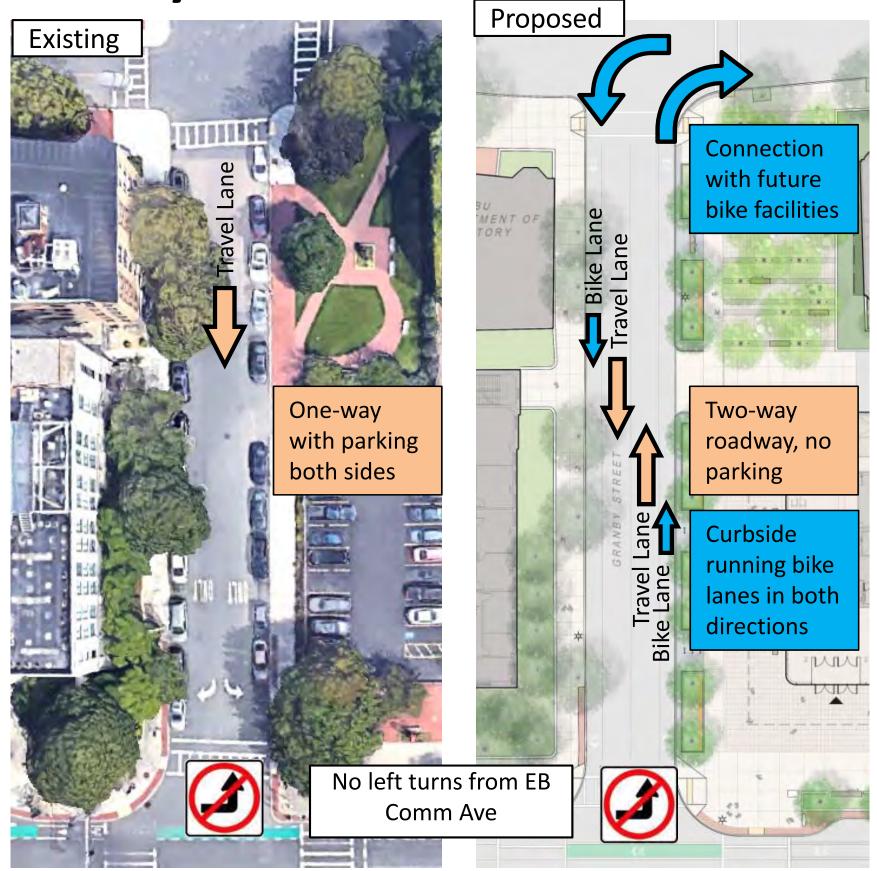
Key Changes / Benefits

> Complements recent and planned ped/bike improvements on Bay State Rd

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- Discourages vehicular cut-through traffic on Bay State Rd
- > Improved connectivity for bicycle and vehicle network
- No signal timing changes required

Granby Street Conversion



Features/Improvements

- Bike lanes in both directions
- Two-way roadway
- Completes bike network between planned Bay State Road facility and existing Comm Ave bike lanes.
- Improved vehicular access/circulation
- No eastbound left turns from Commonwealth Avenue

Boston University Data Sciences Center

TNC Pick-up/Drop-off Curb Concept

A Transportation Network Company (TNC) provides rideshare services

Key Needs & Benefits for TNC Pick-up/Drop-off Curb

- > Addresses growing City-wide issue of TNC-related traffic impacts
- > Provides a designated pick-up/drop-off on Commonwealth Avenue, in the most desirable location for visitors of DSC and Sargent College
- > Serves both TNC and personal vehicle rideshares (no commercial loading)
- > Routes bicycles behind high turnover curbside area
- Pick-up/drop-off will be prohibited along Granby Street

Warren Towers Digital Signage

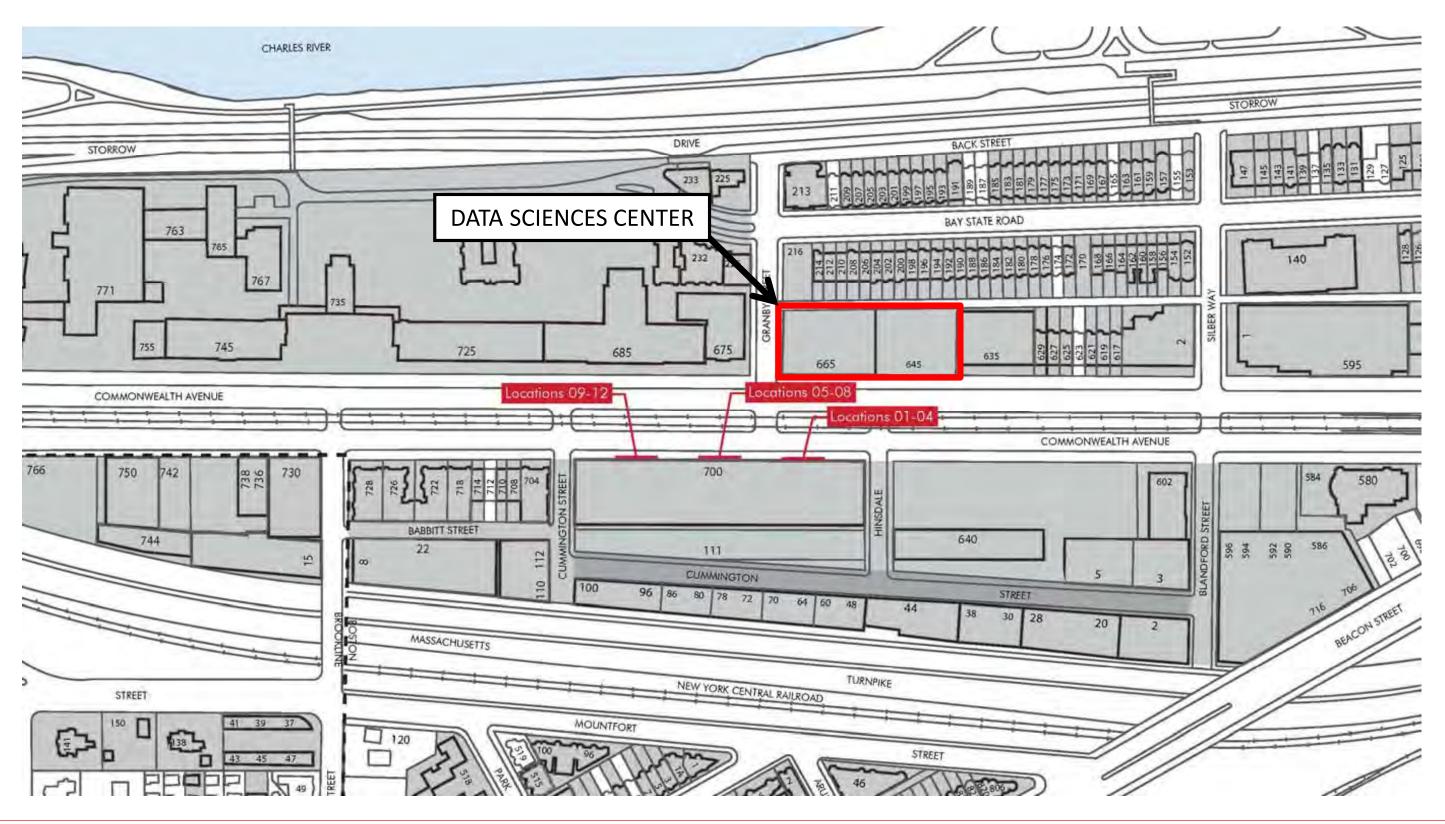
Warren Towers Digital Signage

- > Boston University currently has poster cases at 700 Commonwealth Avenue to promote events and programming to the community. Paper posters:
 - > Are costly for campus groups to produce;
 - > Limit the number of groups the University can support at one time; and
 - Are outdated and inflexible.
- > Replacing static cases with digital displays streamlines design and allows access to more student and University groups.
- Displays will promote events on-campus and other information specific to BU only; these will not be used for advertising.
- > Benefits include cost-savings, improved sustainability through elimination of print production, and the ability to post new information more frequently.
- > Size is a direct replacement of the current cases, with 12 monitors in total replacing the existing 12 cases measuring 6' x 4'-6 34".
- Goal is to make no changes to the façade of the building with this update.

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Sign Location Context Plan



Existing Conditions – Day and Night

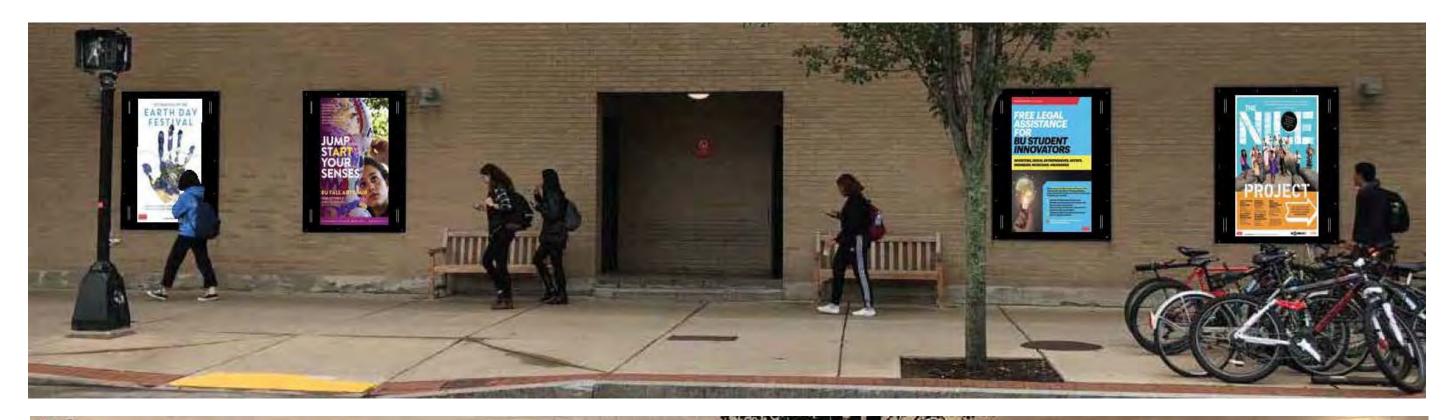




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Proposed Digital Displays – Day and Night





Boston University Data Sciences Center BU

Proposed Digital Displays – Scale



Process and Timeline

Process and Timeline

- ✓ File PNF and IMPNF (October 1, 2018).
- ✓ File DPIR and IMP Amendment (April 30, 2019)
- Public Meeting (June 4, 2019) Task Force Meeting (June 6, 2019)
 - DPIR Comment Period Ends (June 29, 2019)
 - IMP Amendment Comment Period Ends (July 1, 2019)
 - Boston Civic Design Commission Hearing (July 2, 2019)
 - BPDA Board Vote on Project & Amendment (July 11, 2019)
 - Final Adequacy Determination (August 12, 2019)
 - Zoning Commission Approval IMP (August 14, 2019)
 - Mayor's Signature (August 21, 2019)
 - Start Construction (March 2020)