

WENTWORTH: INSTITUTIONAL MASTER PLAN 2024-34



HOUSING

- Up to **1,800** new beds across **3** new residence halls on-campus to help open up long-term housing opportunities in neighborhood & strengthen student life within WIT community



JOB

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- **600-700** students in co-ops every semester
- **881** personnel working on campus with **38%** Boston residents



COMMUNITY

- Over **\$6M** per year in community benefit programs including scholarships, free-tuition to Mission Hill & Fenway residents, STRIVE & Boston Pipeline programs



SUSTAINABILITY

- IMP focus includes reduced energy usage and GHG emissions, improved campus resiliency, incorporation of renewable energy resources, and waste reduction

SITE CONTEXT



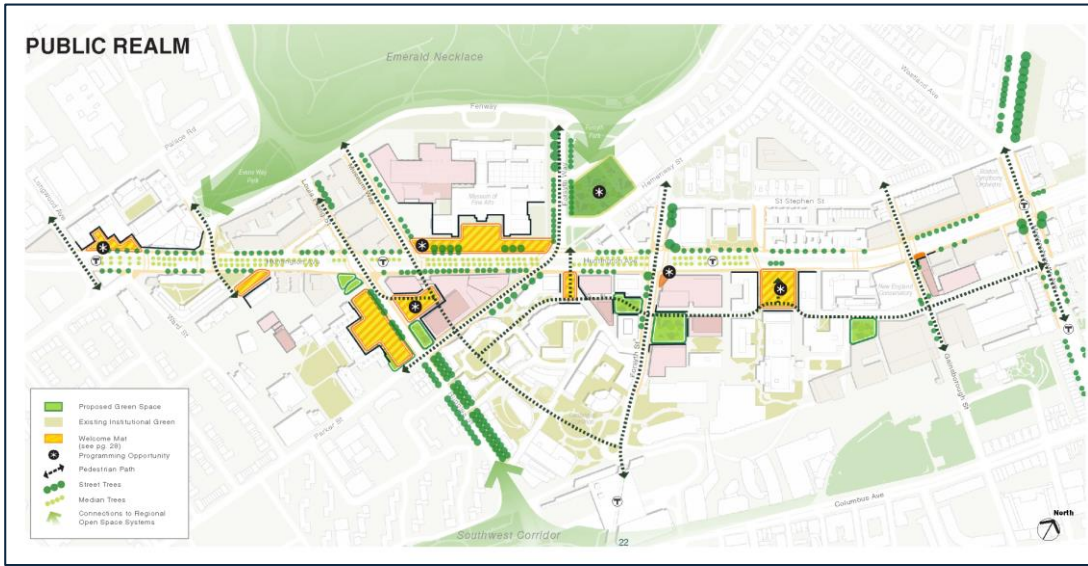
- Mission Hill Neighborhood District
Wentworth Institute of Technology Institutional (IS) Subdistrict
 - Located along Huntington Avenue
 - Between Emerald Necklace and Southwest Corridor Park
 - Adjacent to Museum of Fine Art, Northeastern University
- Transportation
 - Adjacent to Green Line (E Branch)
 - Museum of Fine Arts MBTA Station
 - Longwood Medical Area MBTA Station
 - Adjacent to Orange Line
 - Ruggles MBTA Station
 - Roxbury Crossing MBTA Station
 - Adjacent to Commuter Rail
 - Ruggles MBTA Station
- Other Nearby Projects
 - 500 Huntington Avenue Project (PDA No. 93)
Public Hearing at BPDA Board August 2024
BPDA Board Approved September 2024

PROJECT ANALYSIS

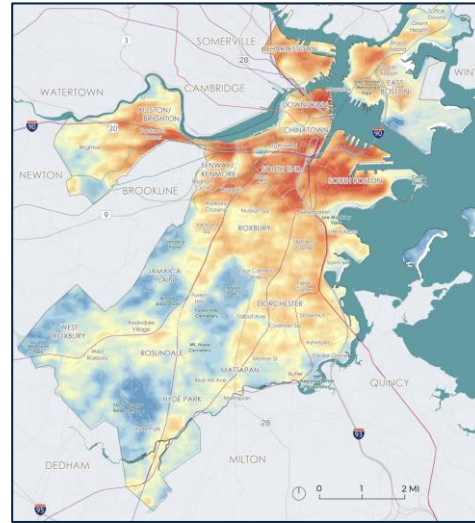


	PROPOSED INSTITUTIONAL MASTER PLAN INSTITUTIONAL GOALS ADVANCED	PREVIOUS INSTITUTIONAL MASTER PLAN
Dimensional and Use Changes	<ul style="list-style-type: none"> - Six PIPs <ol style="list-style-type: none"> 1. Pike (West Lot) Residence Hall 126,000 SF Student Housing/Student Uses 2. Huntington Residence Hall (Student Life Podium and Residential Hall) 275,000 SF Student Housing/Dining/Student Uses/Retail 3. West Quad Academic Building 140,000 SF Institutional Uses + Open Space 4. Wentworth Hall Addition + “Front Door” 20,000 SF Institutional Uses/Event Space + Open Space 5. New Baker Hall Residence 155,000 SF Student Housing/Dining/Admin/Student Uses 6. Annex Complex Academic Quad 200,000 SF Institutional Uses - Addition or renovation of up to 916,000 GSF - Addition of 2.5 acres open space 	<ul style="list-style-type: none"> - Five PIPs <ol style="list-style-type: none"> 1. Flanagan Campus Center at Beatty Hall Renovation + Addition 7,000 SF Addition, 23,000 SF Renovation of Institutional Uses 2. Ira Allen Building Addition 18,000 SF Institutional Uses 3. Seven-Story Student Residence Hall 119,042 SF Student Housing 4. Center for Engineering and Technology/Wentworth Multipurpose Academic Building 69,000 SF Institutional Uses 5. Sweeney Field Move + Reconstruction 122,000 SF Open Space and Recreation Uses + 330 Subsurface Parking Spaces - 1.44 million GSF - 7 acres open space

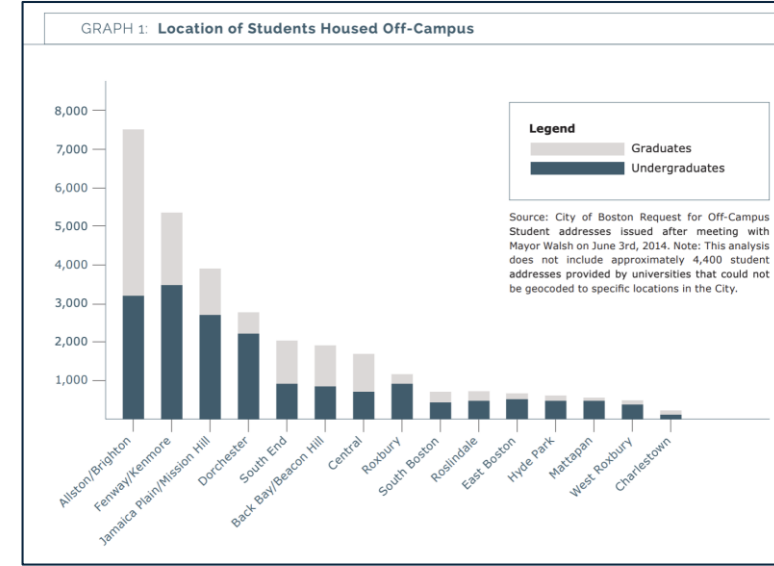
PLANNING CONTEXT



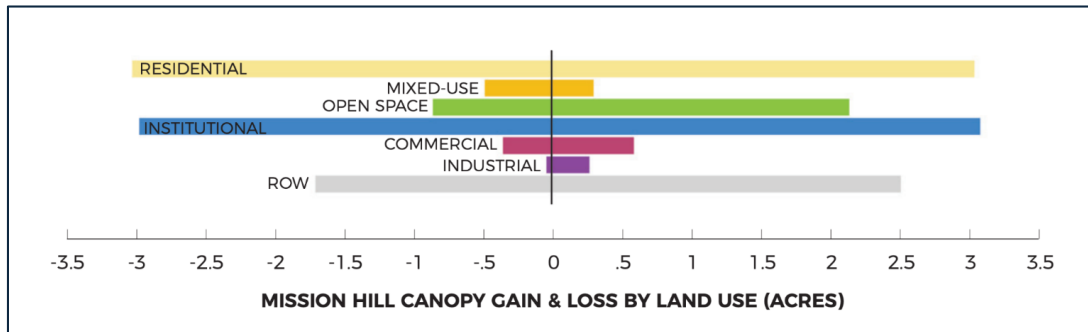
AVENUE OF THE ARTS DESIGN GUIDELINES (2015)



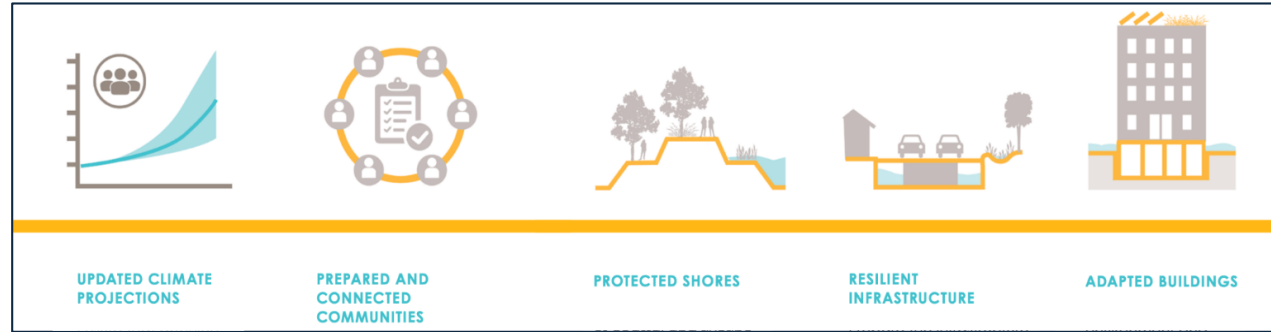
HEAT RESILIENCE SOLUTIONS FOR BOSTON (2022)



HOUSING A CHANGING CITY: BOSTON 2030 (2017)



URBAN FOREST PLAN (2022)



CLIMATE READY BOSTON (2016)

TRANSPORTATION CONTEXT



Multimodal projects, plans, and needs intersect along Ruggles Street:

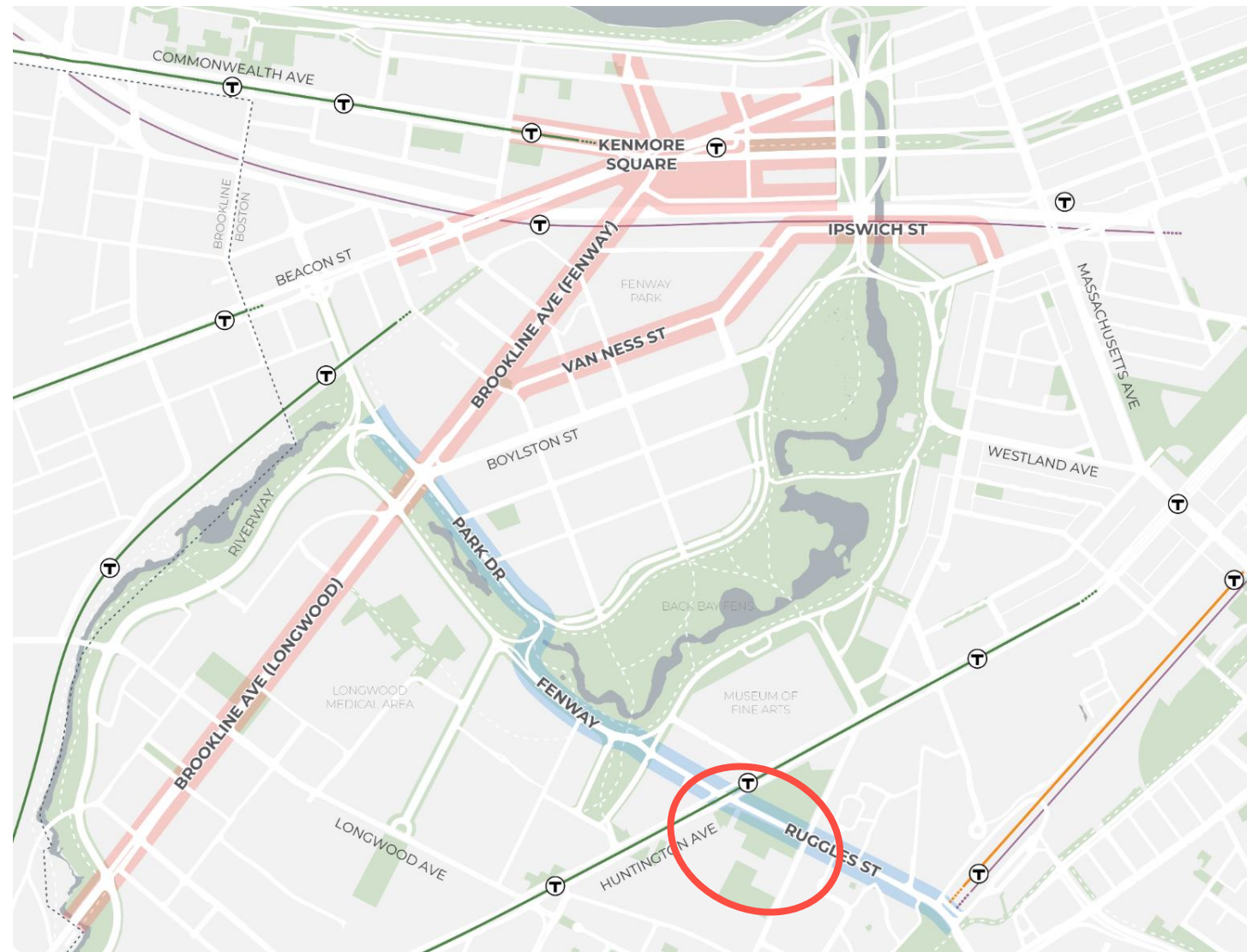
- Safer and accessible Wentworth driveway, east of Huntington Avenue (narrower width, left-turns prohibited in and out, and accessible)
- Separate walking and biking paths on Ruggles Street (Roxbury-Fenway Connector and 500 Huntington Avenue)
- Expanded bus stop for planned services (MBTA Bus Network Redesign and MBTA Bus Circulation Study)
- Ruggles Street mid-block crosswalk in alignment with Wentworth Hall (500 Huntington Avenue)

DESIGN AREAS

设计地点 | 設計地點 | ÁREAS DE DISEÑO

 FENWAY TRANSPORTATION ACTION PLAN DESIGN AREA
芬威交通行动计划设计区 | 芬威交通行動計畫設計區 | ÁREA DE DISEÑO DEL PLAN DE ACCIÓN DE TRANSPORTE DE FENWAY

 ROXBURY-FENWAY CONNECTOR WEST DESIGN AREA
罗克斯伯里-芬威连接线西设计区 | 羅克斯伯里-芬威連接器西設計區 | ÁREA DE DISEÑO DEL CONECTOR ROXBURY-FENWAY WEST



Wentworth

INSTITUTE OF TECHNOLOGY

10-Year Institutional Master Plan

Zoning Commission

11.20.24



The Opportunity

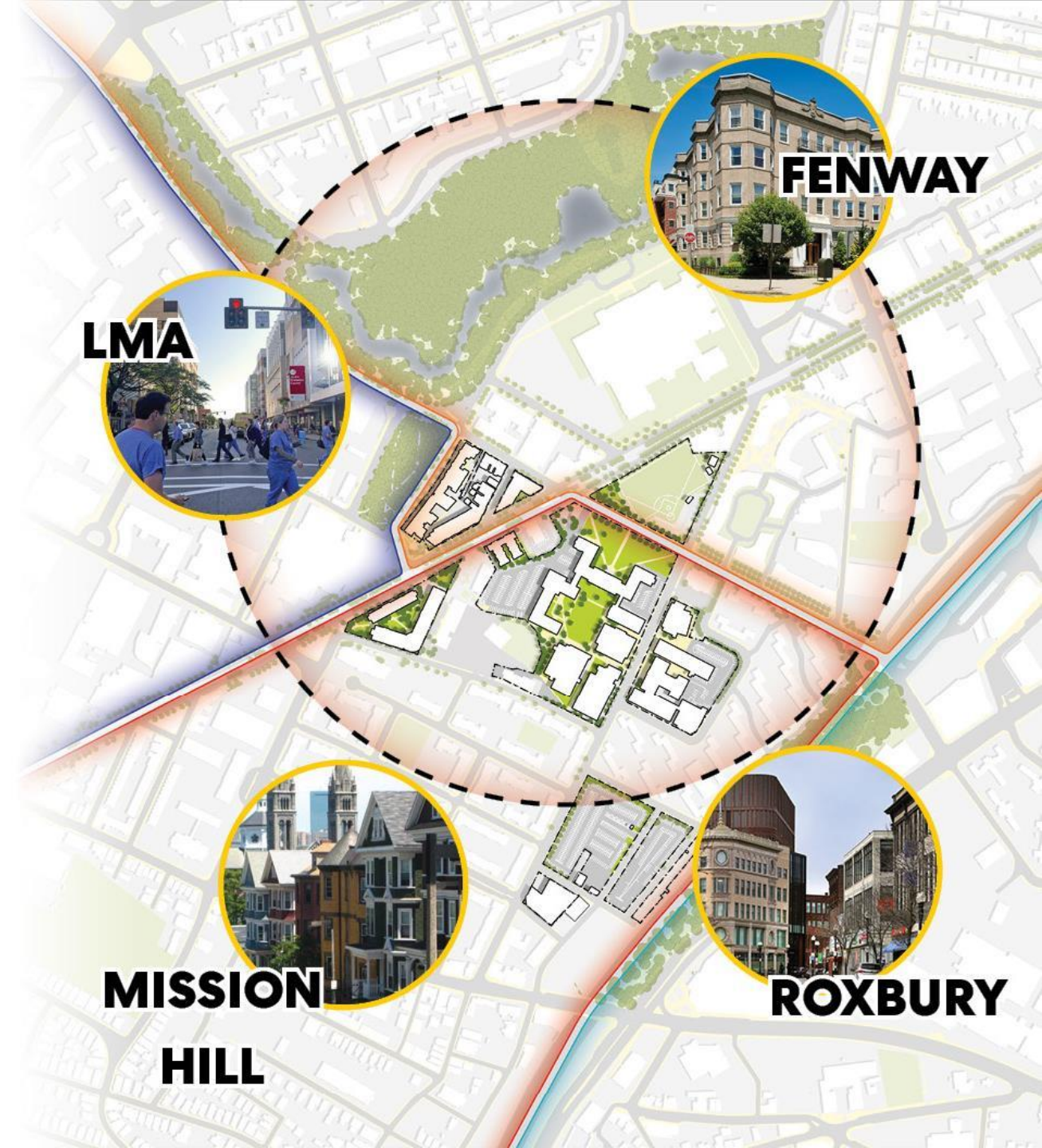
Vibrant neighborhoods

Parks and open space

Connectivity

Culture and legacy

Economic opportunity and innovation



Goals



GREEN

the campus



REVITALIZE

academic
facilities



INCREASE

housing
capacity



REPLACE

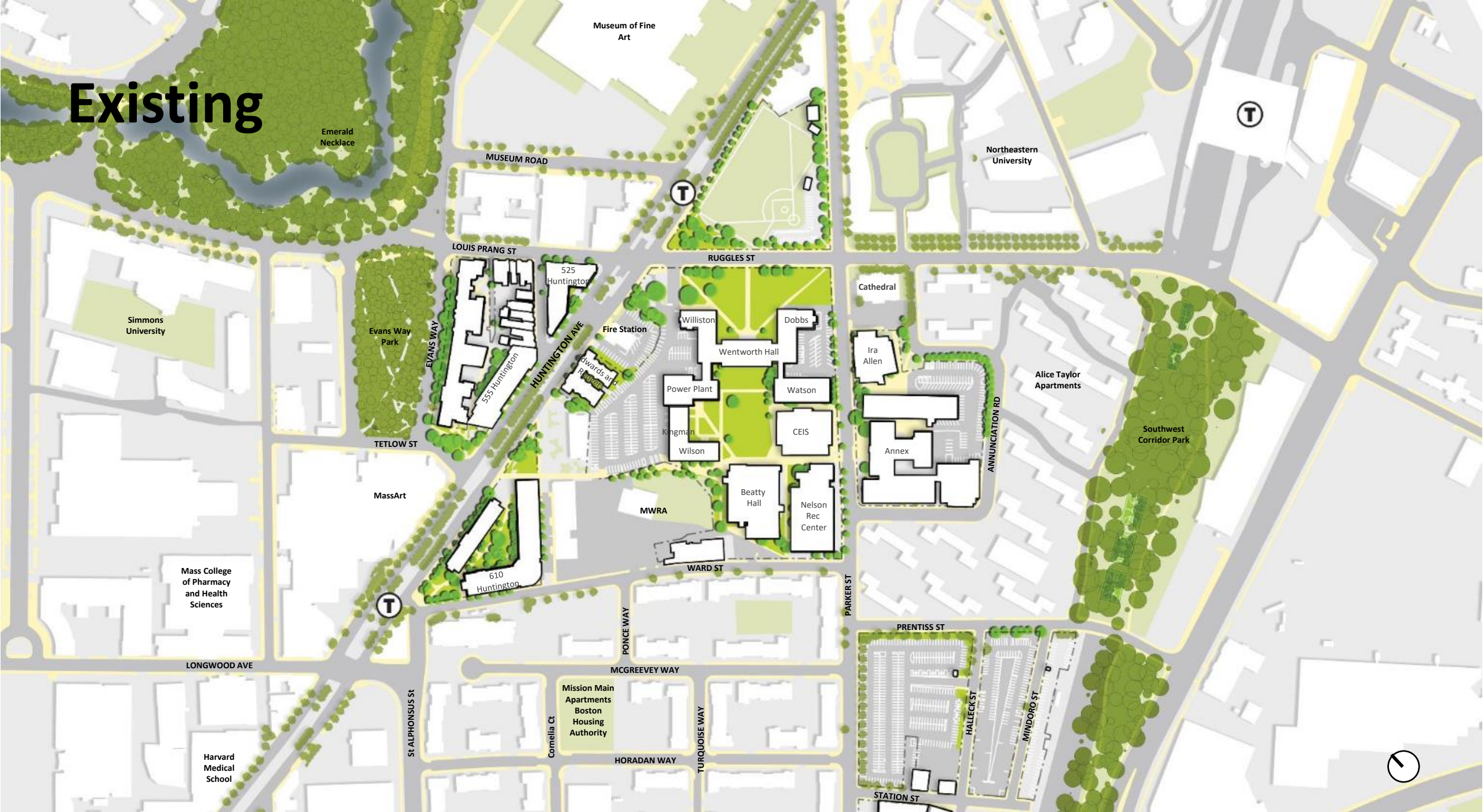
outdated
housing



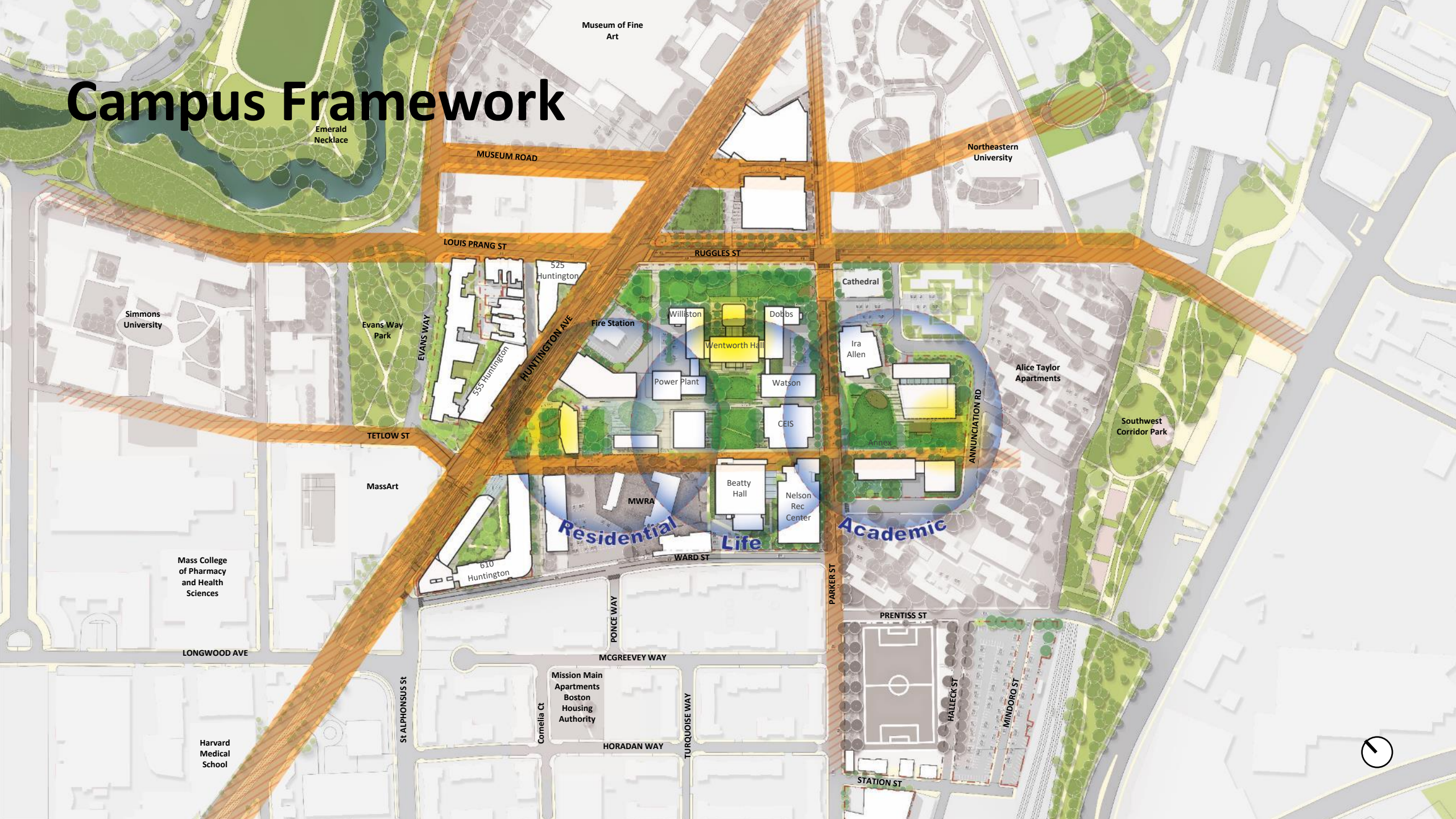
CELEBRATE

image and
identity

Existing



Campus Framework



Emerald
Necklace

Museum of Fine
Art

Northeastern
University

Simmons
University

Evans Way
Park

MassArt

Mass College of
Pharmacy and
Health
Sciences

LONGWOOD AVE

Harvard
Medical
School

MUSEUM ROAD

LOUIS PRANG ST

RUGGLES ST

EVANS WAY

HUNTINGTON AVE

Evans Way
Park

TETLOW ST

MassArt

Mass College of
Pharmacy and
Health
Sciences

LONGWOOD AVE

Harvard
Medical
School

525
Huntington

555
Huntington

610
Huntington

Fire Station

Williston

Dotbs

Wentworth Hall

Power Plant

Watson

CEIS

Cathedral

Ira
Allen

Alice Taylor
Apartments

Southwest
Corridor Park

ANNUNCIATION RD

MWRA

Beatty
Hall

Nelson
Rec
Center

WARD ST

PARKER ST

PRENTISS ST

Mission Main
Apartments
Boston
Housing
Authority

Comelia Ct

HORADAN WAY

TURQUOISE WAY

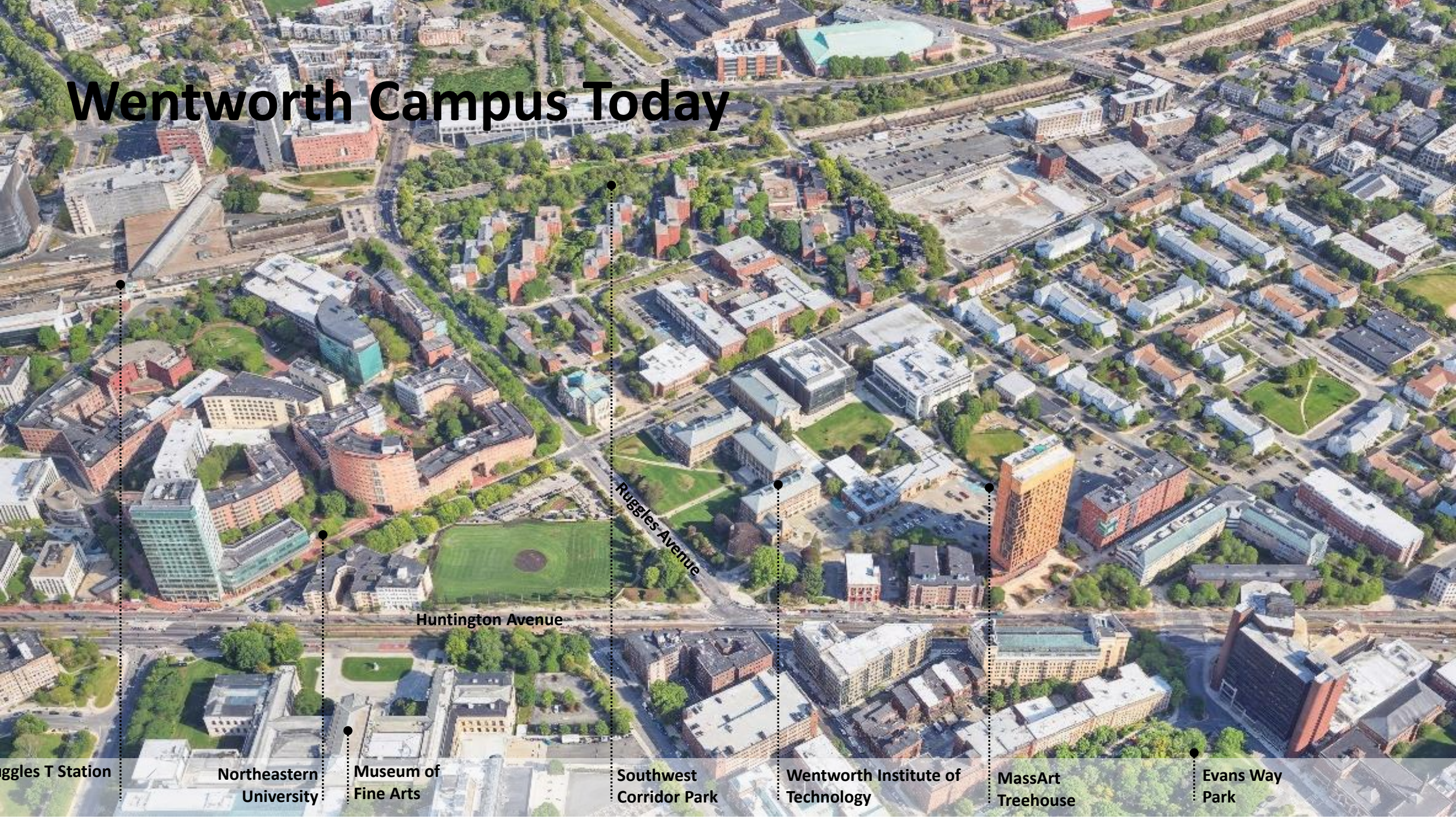
HALLECK ST

MINDORO ST

STATION ST



Wentworth Campus Today



Ruggles T Station

Northeastern University

Museum of Fine Arts

Southwest Corridor Park

Wentworth Institute of Technology

MassArt Treehouse

Evans Way Park

Huntington Avenue

Ruggles Avenue

Wentworth Institutional Master Plan



IMP Projects



Annex Complex
Academic Quad

West Quad Academic
Building

Huntington Avenue

Ruggles Avenue

Wentworth Hall
Addition

Huntington Residence
Hall

Pike Residence
Hall

New Baker Hall
Residence



Existing Lawn



Arrive

Native Gardens;
Social Rooms

Maintain View To
Cathedral

New Accessible Front Door
To Wentworth Hall

Flexible
Terrace

Open Lawn; Events
& Display

Maintain Visibility Of
Wentworth Hall





Existing Huntington Avenue Gateway



Gateway



Celebrate
Wentworth Identity

Enhanced
Streetscape

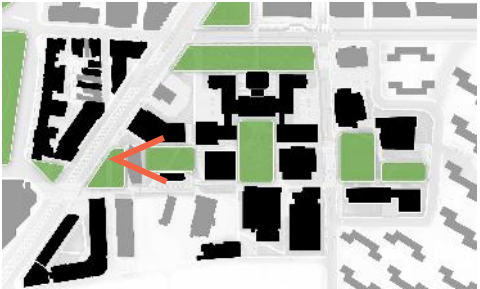
Places for
Respite

Welcoming Pedestrian
Promenade

Native Planting



Existing Pedestrian "Pike"



Promenade

Café and Dining Terrace

Raingardens Capture And Filter Water

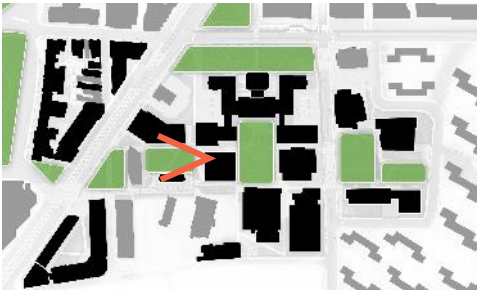
Sculptural Canopy

Student Activity Space

Mural Wall



Existing West Parking Lot



Recharge





Existing Annex

Connect



**Stage;
Outdoor classes and
events**

**Lawn for Community
Events & Wellness**

**Perennial Gardens;
Active passage**

**Science on
Display**



Existing Annex



Gather



Pedestrian promenade with permeable paving

Native plants and pollinators

Lawn for Community Events & Wellness

Pavilion for outdoor classes

Display and student galleries space





Impact



Existing

Proposed

Impact

 Energy & GHG Reduction	 Climate Resiliency & Urban Ecosystem	 Water Resources	 Materials & Waste
<ul style="list-style-type: none"> • <u>Existing Buildings:</u> Energy efficiency and electrification • <u>New Construction:</u> Low carbon design and LEED Gold as the new target • <u>On-Site Renewable Energy:</u> Evaluate options for solar PV & geothermal • <u>Renewable Energy Procurement:</u> Explore options for a virtual power purchase agreement • <u>Transportation:</u> Expand EV charging availability Enhance bicycle and transit connections 	<ul style="list-style-type: none"> • Expand cooling capacity to existing buildings without centralized A/C • Incorporate BPDA resiliency standards for new construction • Design new residence halls for passive survivability • Design new buildings for flood resistance • Explore islanding capability for energy systems • Select reflective hardscape and roofing materials • Expand green space and tree canopy • Install green infrastructure for flood-prone areas • Harden campus infrastructure to prevent future flooding 	<ul style="list-style-type: none"> • Increase water efficiency standards • Native and adaptive plant selection • Minimize synthetic fertilizers and pesticides • Expand rainwater harvesting • Install smart irrigation systems or no irrigation for new construction • Cooling tower optimization 	<ul style="list-style-type: none"> • Minimize construction waste • Reduce life cycle and embodied carbon impacts of buildings • Optimize building design to reduce operational waste • Create a new, centrally-located STRIVE recycling hub • Dedicate areas for re-use of academic program materials • Dedicate areas for students experiencing hardship (food pantry and household items) • Adopt healthy materials standards

Impact

Co+build - \$431,693

Hands-on experience for student to work within the community

Board Participation

MHNHS, Tobin Community Center, Roxbury Main Streets, MH Main Streets, ABCD Parker Hill / Fenway , MHPPTF

STRIVE - \$531,998

vocational opportunities for Boston Public School students who receive special education services.

Scholarships - \$5,737,309

- Jimmie Beverly Scholarship
- Boston Resident Scholarship
- Merit Scholarships

Neighborhood Parks

- Evans Way Park \$48,630
- Kitty Dukakis Park

Donations

- Cash contributions \$37,000
- Laptops for Alice Taylor & Mission Main \$42,550
- Facilities usage \$64,000

Summer Program - \$128,150

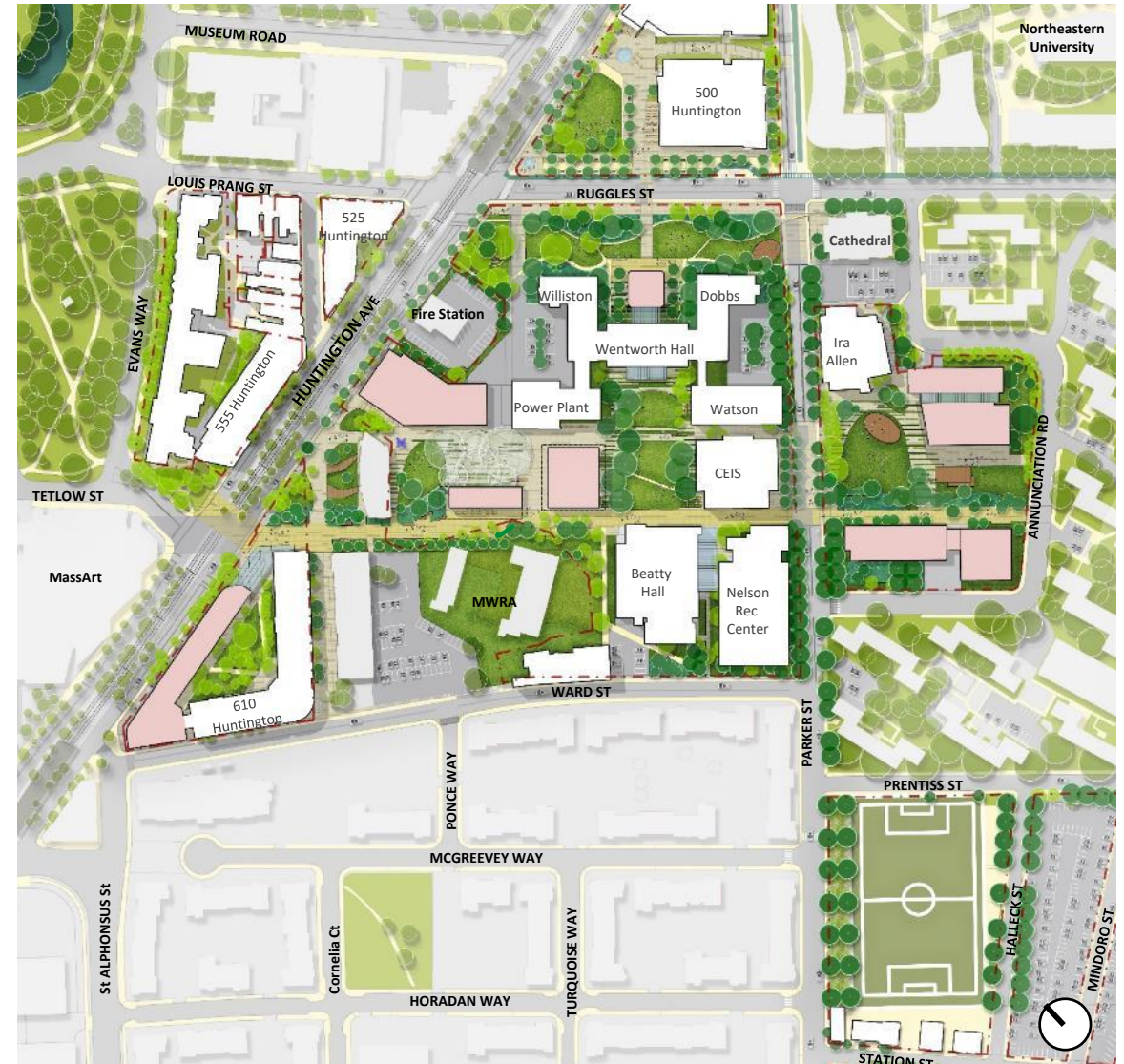
serves students living in the **Mission Main** and **Alice Taylor** housing developments in Mission Hill.

Boston Pipeline

- Dual Enrollment \$538,240
- Center for Community & Learning Partnerships' \$431,693
- Beacon Pathways
- RAMP

Student Volunteers

Community events, Community clean-ups, Volunteer Income Tax Assistance



An aerial photograph of a city, likely Boston, showing a dense urban landscape with various buildings, streets, and green spaces. A semi-transparent white rectangular box is overlaid in the center of the image, containing bold black text. The text describes a vision for a future-ready higher education campus.

The IMP is a vision for a future ready higher education campus that elevates experiential learning, inclusive community, and environmental stewardship.

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