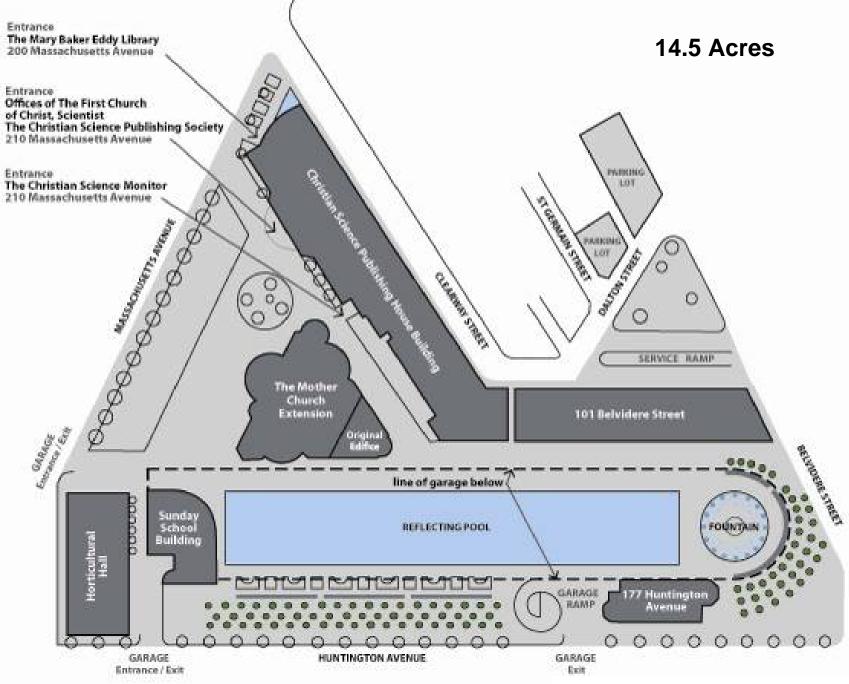


Christian Science Plaza Revitalization Project



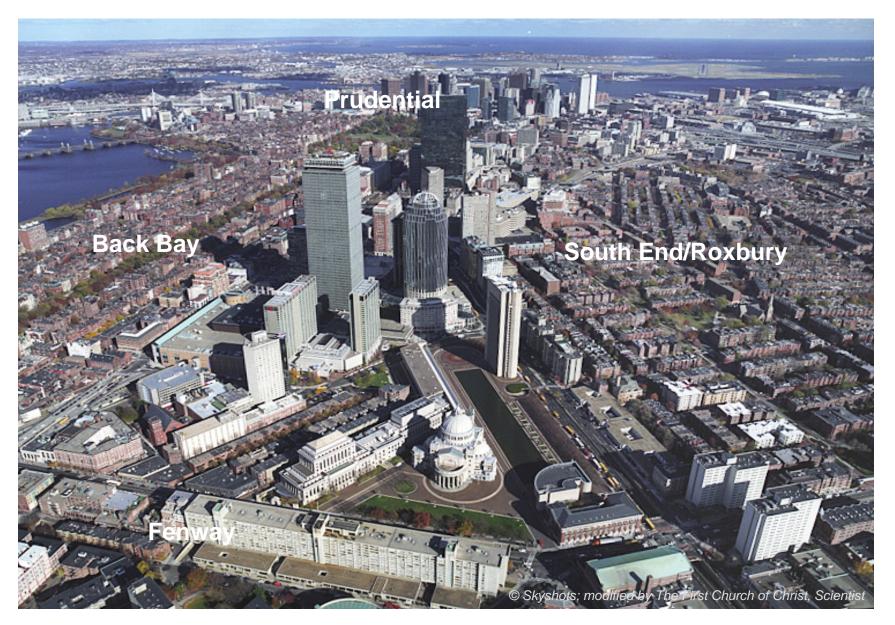
Courtesy of The First Church of Christ, Scientist

The First Church of Christ, Scientist Perimeter Properties Ownership



- Christian Science Plaza Revitalization Project Site
- Church Owns Land Long Term Ground Lease to Others
- Church Owns Land/Building Leased to Others

Urban Context





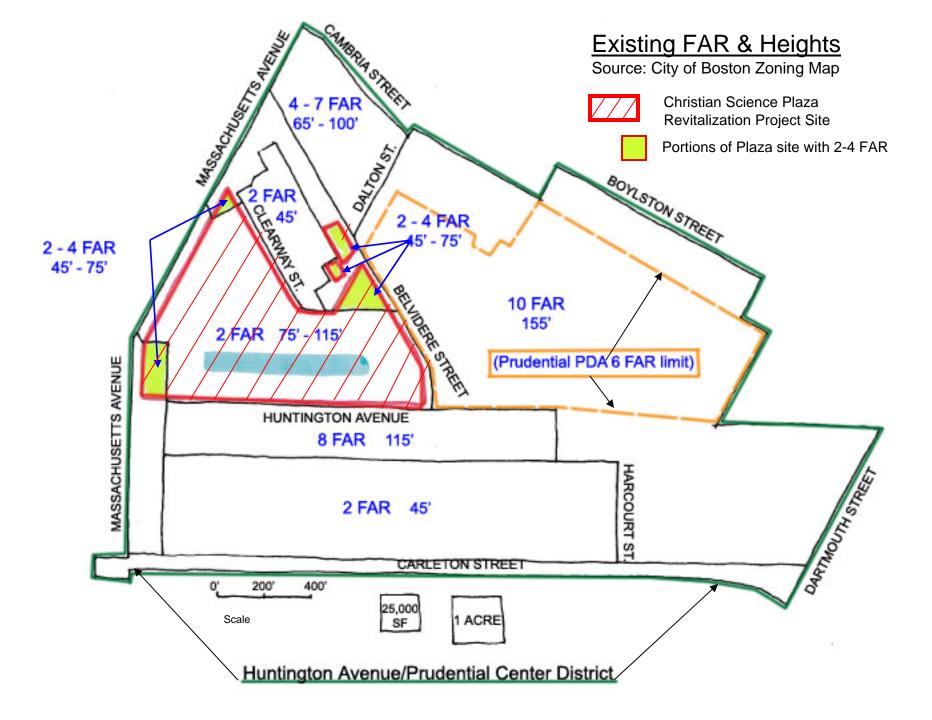
Surveying Waterproofing Membrane in Reflecting Pool



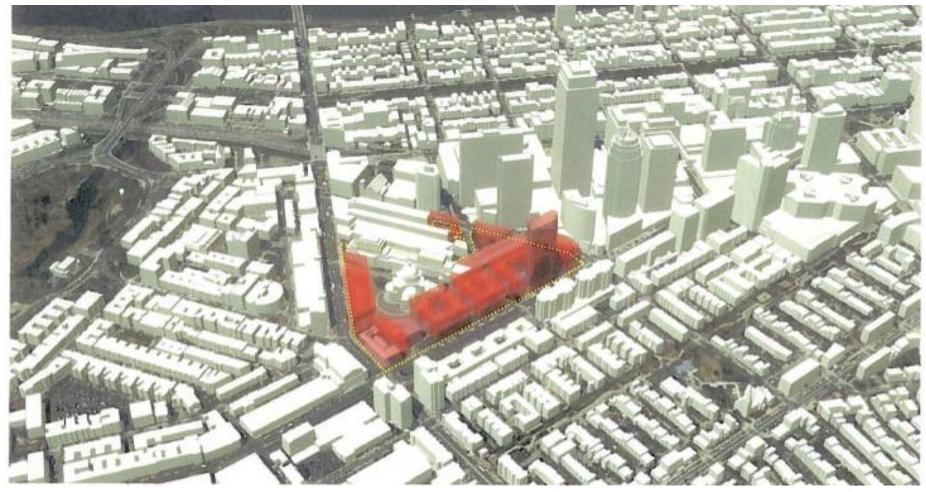
Surveying Pile Condition

Planning Objectives

- 1. Enhance Open Space
- 2. Improve Environmental Sustainability
- Identify Opportunities for Underutilized
 Real Estate

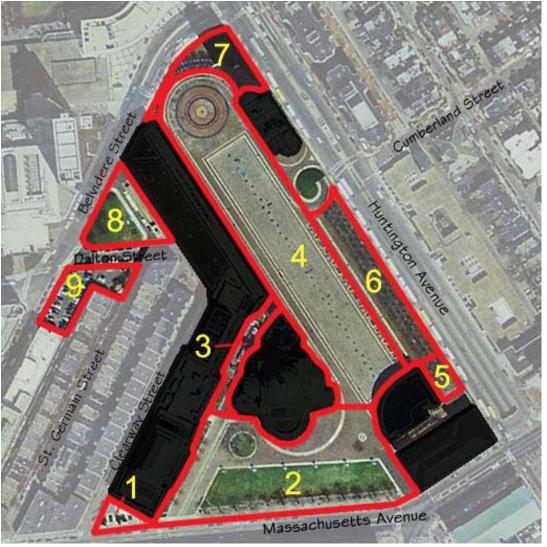


"As of Right" zoning development [average FAR 2.2; heights from 75' - 115']



Courtesy of The First Church of Christ, Scientist

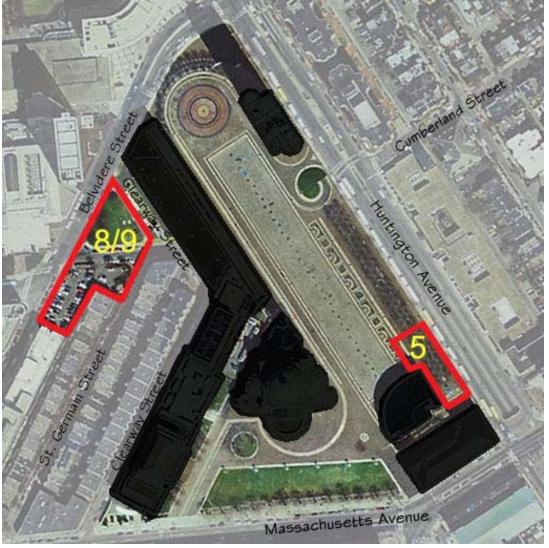
"As of Right": ~1.4 Million SF (FAR 2.2) Existing Buildings: ~750,000 SF (FAR 1.2) Additional "As of Right": ~650,000 SF Proposed: 650,000 + 300,000 = ~950,000 SF (FAR around 3)



Existing Open Space Areas

- Mary Baker Eddy Library Courtyard
- 2) Mass. Ave Lawn
- 3) Passage Way
- 4) Reflecting Pool/Children's Fountain
- 5) Huntington side of Sunday School Building
- 6) Huntington Bosque
- 7) Belvidere Bosque/Corner
- 8) "Triangle"/Service Area
- 9) Belvidere/Dalton Parking Lots

Courtesy of The First Church of Christ, Scientist



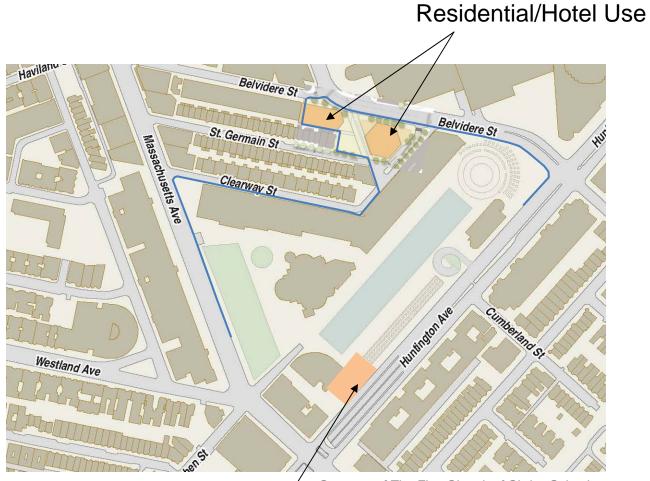
Primary Development Sites

5 Huntington Side of Sunday School Building

8/9 reconfigured

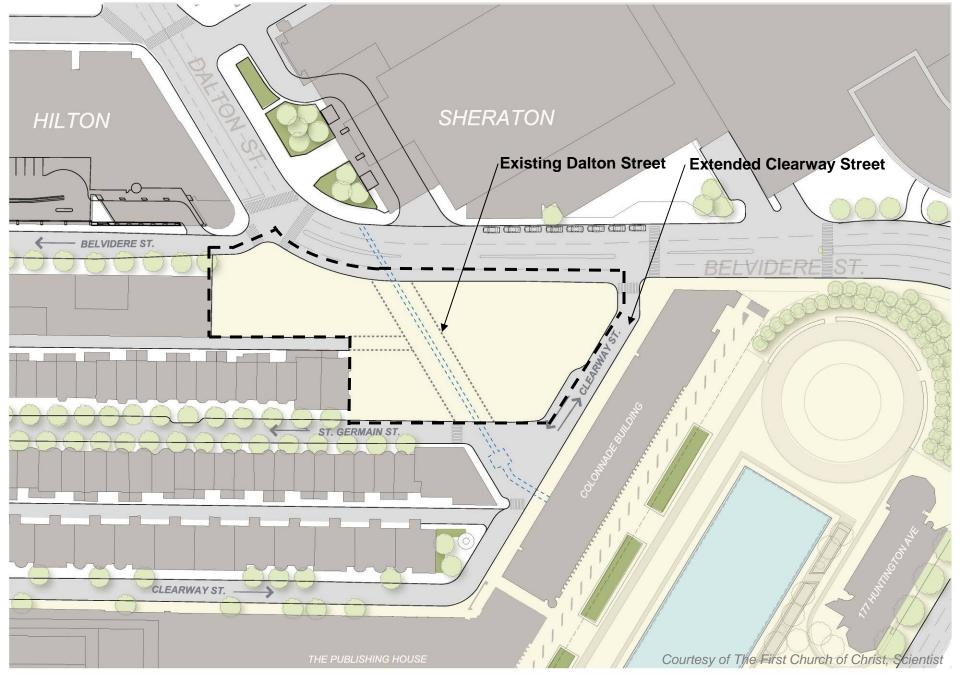
Triangle/Service Area/Belvidere/Dalton Parking Lots

Courtesy of The First Church of Christ, Scientist



Courtesy of The First Church of Christ, Scientist

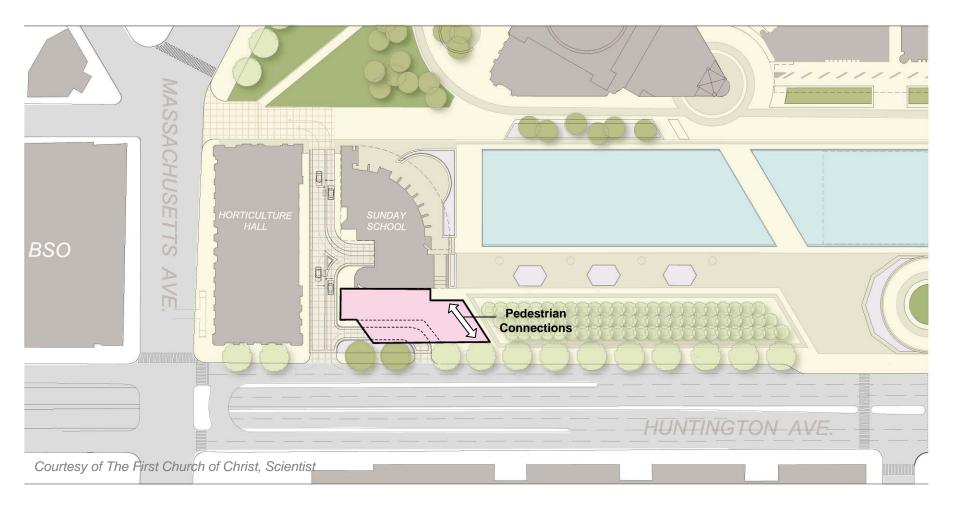
Office/Residential Use



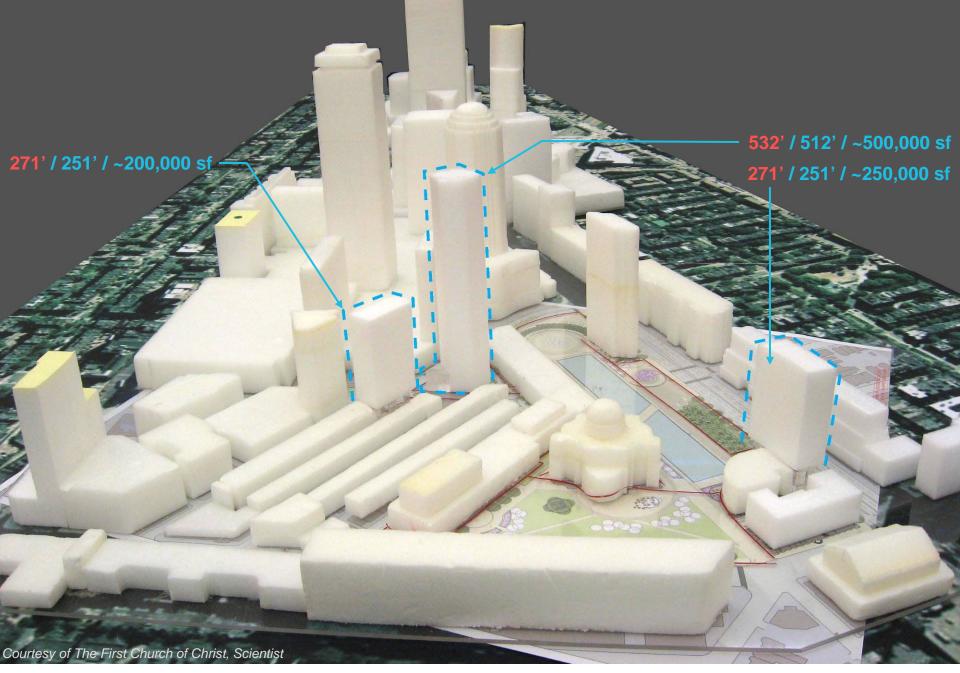
PROPOSED RECONFIGURATION OF DALTON SITE



DALTON SITE : Current Proposal Building Footprints



PROPOSED HUNTINGTON SITE DEVELOPMENT: BUILDING FOOTPRINT



CURRENT PROPOSAL : Context Model View

MASSING HEIGHT

ZONING HEIGHT & SQUARE FOOTAGE -----

Christian Science Plaza Revitalization Project

Citizens Advisory Committee

Transportation Study Presentation December 9, 2009

Presentation Outline

- Key Findings
- Transportation Study Overview
- Existing Conditions
 - Regional Access and Egress
 - Site Access and Egress
 - Study Area Intersections
 - Loading & Curb Use
- Build Conditions (Proposed Project)
 - Planned Improvements
 - Preliminary Parking
 - Analysis Assumptions
- Initial Assessment

Key Findings

- The proposed project has minimal transportation impacts on nearby intersections due to predominance of residential and hotel land uses
- The proposed project has minimal net increase in parking needs due to existing parking supply and residential/hotel focus
- The project area already has a high use of transit and walking versus drive-alone commuting

Transportation Study Overview

- Scope Developed in coordination with BTD and BRA
- Existing Conditions (May, 2009)
- No Build (10 years growth and planned and approved projects)
- Build Conditions (Proposed Project)
- BTD Back Bay Traffic Model
- BTD Mode Share and Trip Distribution
- Institute of Transportation Engineers -Trip Generation
- Identify transportation impacts



Courtesy of The First Church of Christ, Scientist

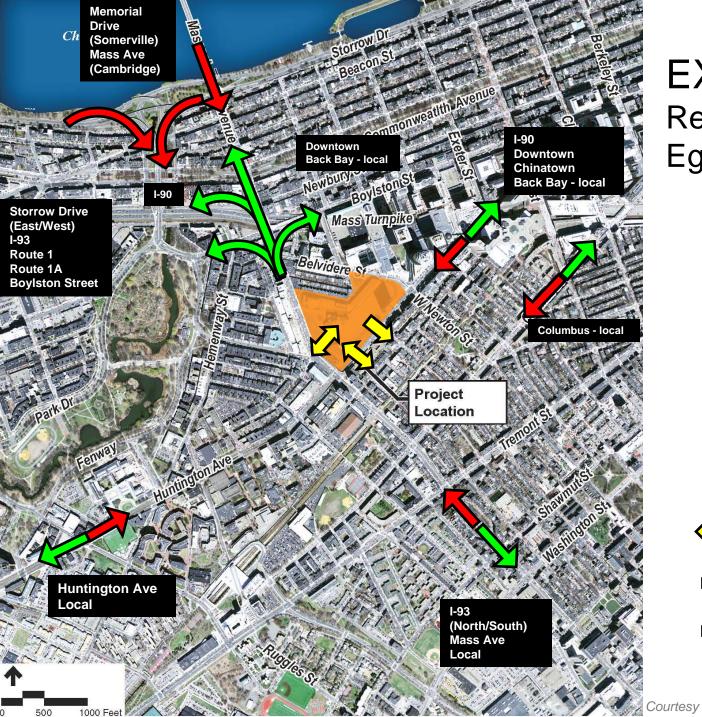
Plaza Revitalization Site Plan



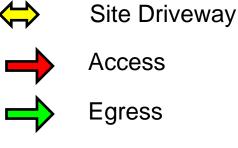
Proposed New Development

Transportation

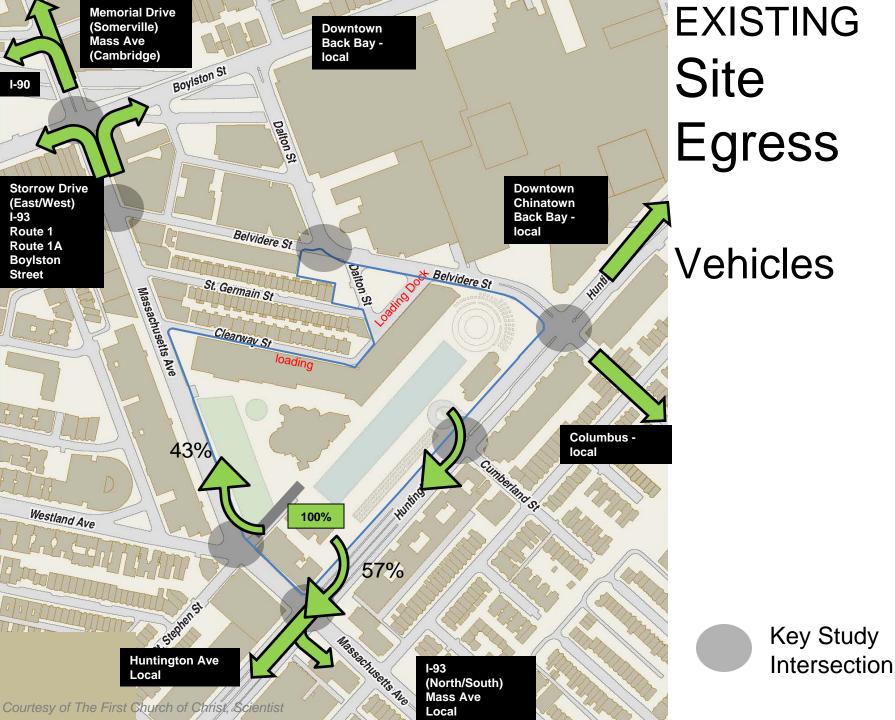
EXISTING CONDITIONS

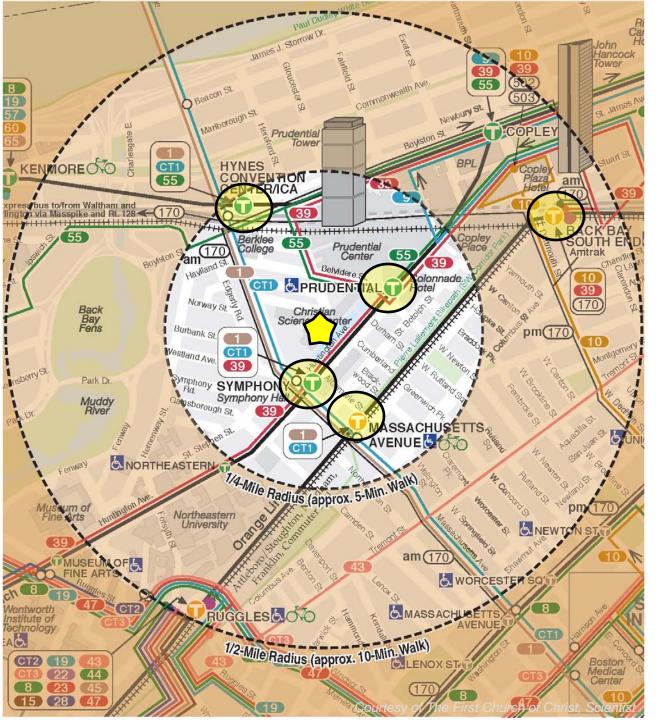


EXISTING Regional Access & Egress



Courtesy of The First Church of Christ, Scientist



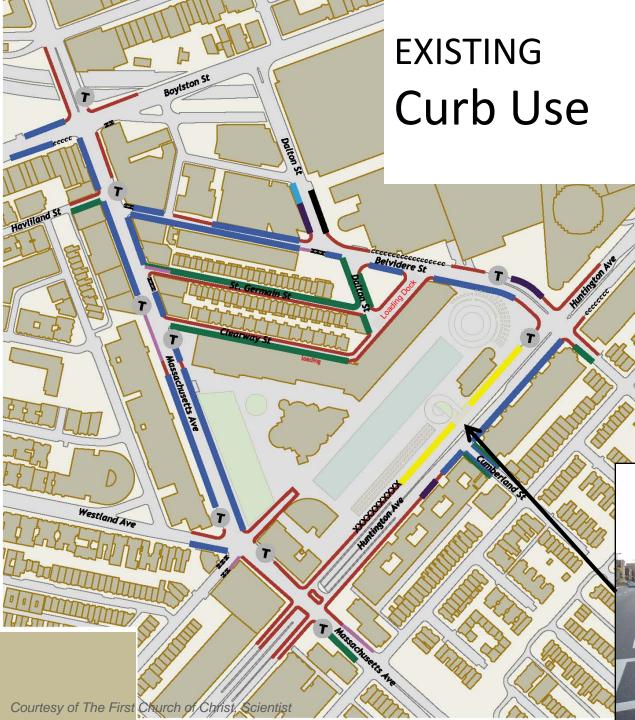


EXISTING Transit Access

- Orange Line
 (Mass Ave)
- Green Line (B,C,D + E Line)
- Commuter Rail

South and West: Back Bay, North and West: North Station connect to Orange Line or Green Line

Buses





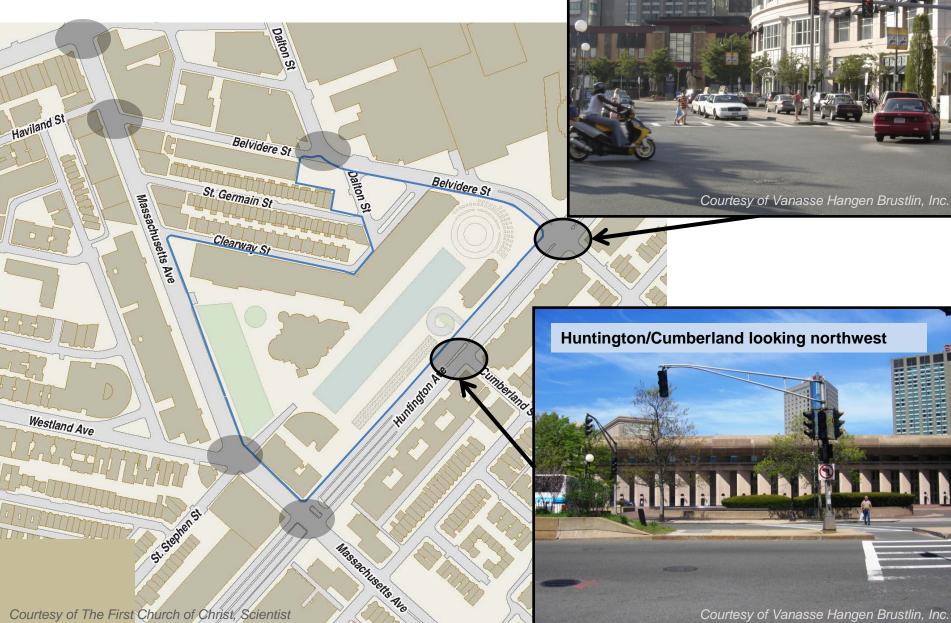
- Curb Use defined and regulated for variety of users
- Users are Residents, Visitors,

© The First Church of Christ, Scientist

LocalMotio

Study Intersections

Huntington/Belvidere/W Newton looking northwest

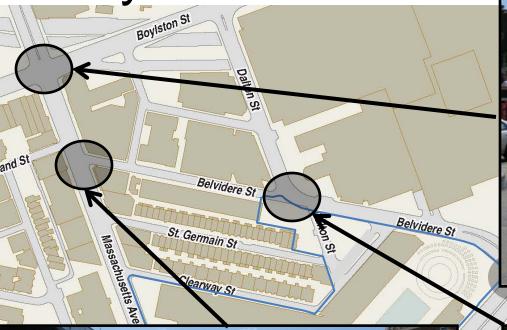


Courtesy of The First Church of Christ, Scientist

Courtesy of Vanasse Hangen Brustlin, Inc.

Study Intersections

Boylston at Mass Ave looking west



Mass Ave at Belvidere looking northwest

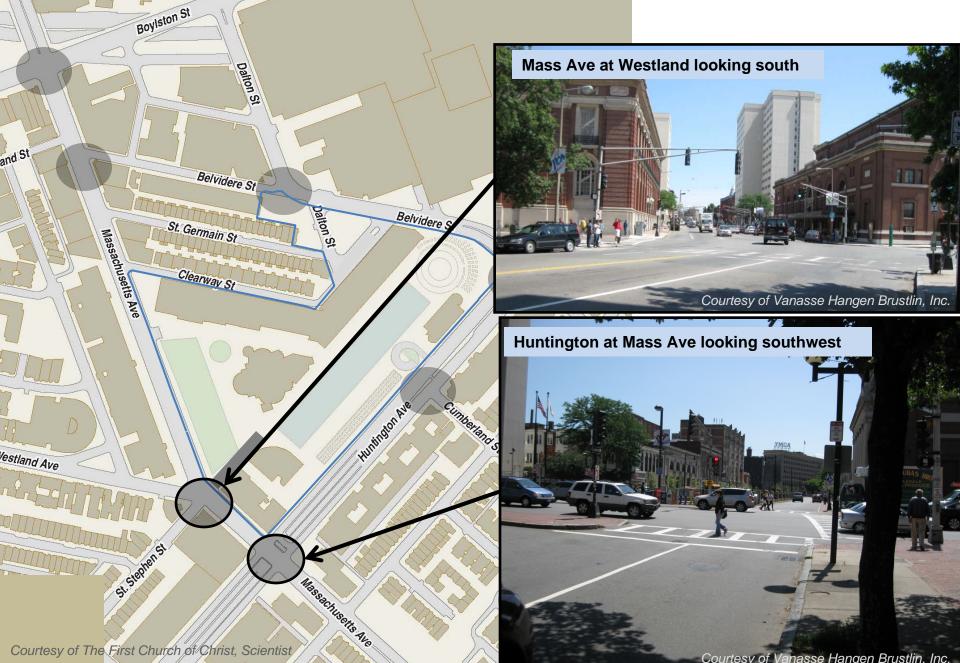




Dalton at Belvidere looking southeast



Study Intersections



Transportation

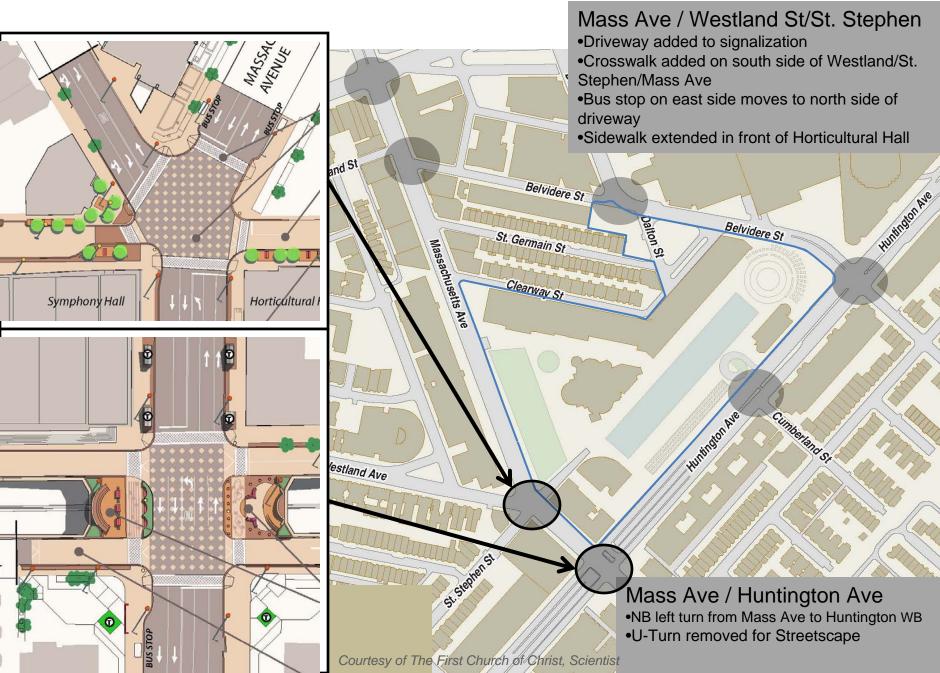
NO-BUILD CONDITIONS

No-Build Conditions

Existing Conditions plus:

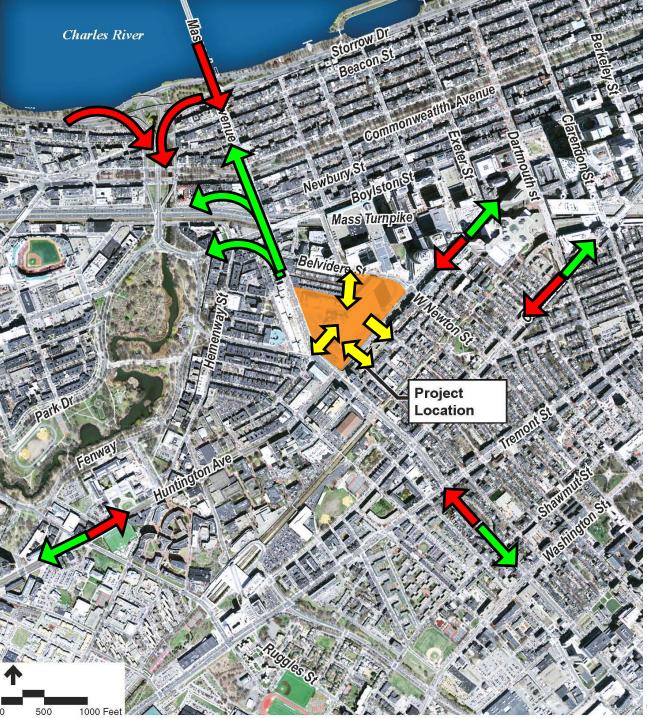
- •10 years of growth at 0.5 percent per year
- •Planned and approved projects:
 - BTD Symphony Streetscape Project
 - 888 Boylston Street
 - Exeter Residential
 - The Clarendon
 - Berklee School of Music

BID Symphony Streetscape Project



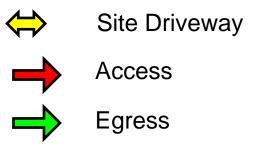
BUILD CONDITIONS (PROPOSED PROJECT)

Transportation

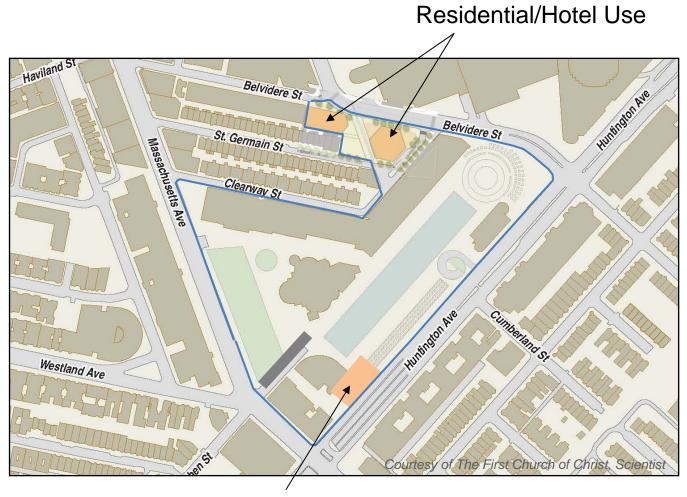


BUILD CONDITIONS Regional Access & Egress

No Change



Courtesy of The First Church of Christ, Scientist

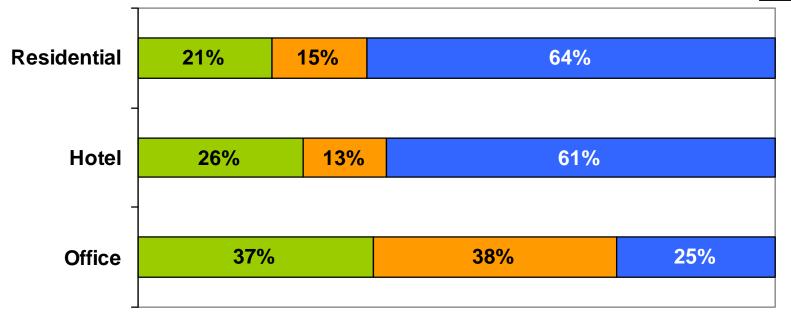


Office/Residential Use

Modes of Transportation

<u>Use</u>



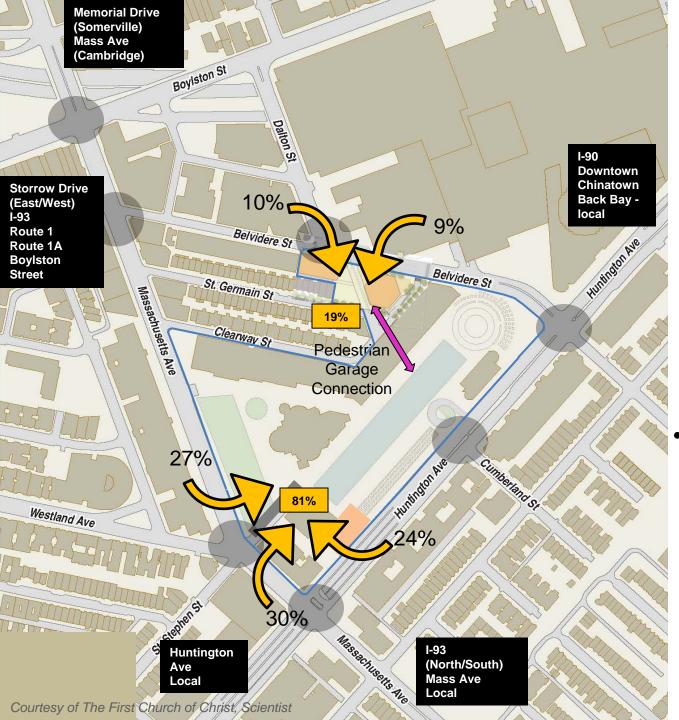


Courtesy of The First Church of Christ, Scientist

Proposed Project Trip Generation

Peak Hour Project Trips				
	Auto	Transit	Walk/Other	
Morning Peak Hour	207	205	393	
Evening Peak Hour	214	209	430	

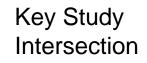
Source: ITE Trip Generation

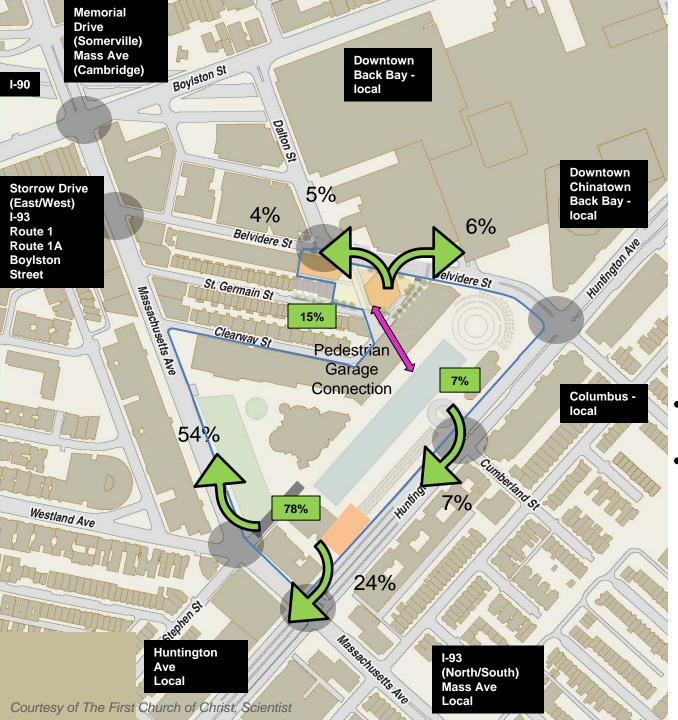


BUILD CONDITIONS Project Trip Distribution Inbound AM

Vehicles

Pedestrian Garage Connection





BUILD CONDITIONS Project Trip Distribution Outbound PM

Vehicles

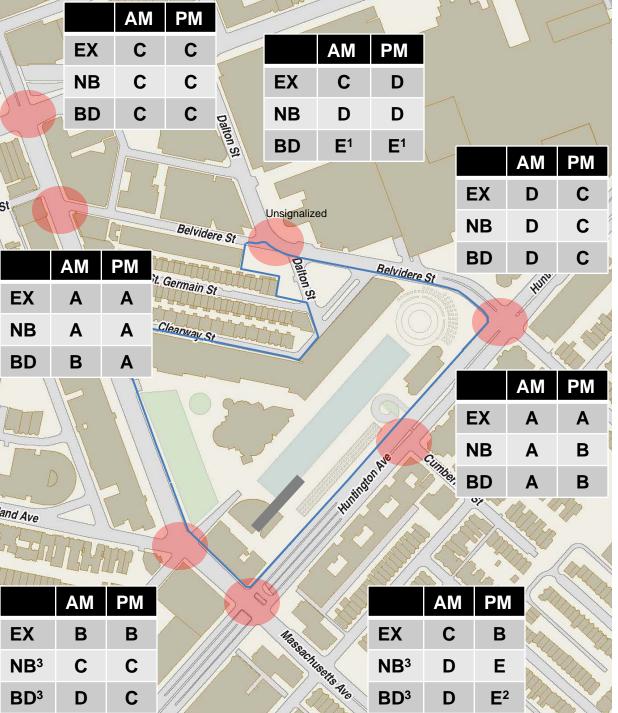
- Pedestrian Garage Connection
- Spiral ramp for egress
 - Direct Huntington Ave westbound access
 - Symphony Parking

Key Study Intersection

Level of Service (LOS) Criteria

Level of Service (LOS)	Unsignalized Intersection Control Delay (sec/veh)	Signalized Intersection Control Delay (sec/veh)
A	<u><</u> 10	<u><</u> 10
В	> 10 - <u><</u> 15	> 10 - <u><</u> 20
С	> 15 - <u><</u> 25	> 20 - <u><</u> 35
D	> 25 - <u><</u> 35	> 35 - <u><</u> 55
E	> 35 - <u><</u> 50	> 55- <u>< </u> 80
F	> 50	> 80

2000 Highway Capacity Manual



Initial Assessment

Conclusion:

- Existing conditions analyzed are at acceptable LOS
- Build conditions analyzed at signalized intersections are at acceptable LOS
- EX Existing ConditionsNB No-Build ConditionsBD Build Conditions

 ¹ to be redesigned as part of project
 ² signal timings adjusted
 ³ preliminary results will need to be coordinated with Symphony Streetscape Project Plans

Preliminary Parking Supply Estimate

Existing (spaces) Existing Underground Garage 550 Existing Commercial Surface Lots 80 **Total Existing Parking Supply** 630 Haviland S Belvidere St unington Ave Proposed Belvidere St St. Germain St Proposed Belvidere High Rise ~200 Clearway St Pedestria Garage Proposed Belvidere Mid Rise ~50 Connection Relocation of Commercial spaces -80 **Total Net New Proposed Parking** ~170 Westland Ave ~800 **Total Proposed Parking Supply Estimate** Courtesy of The First Church of Christ, Scientist.

Summary of Key Findings

- The proposed project has minimal transportation impacts on nearby intersections due to predominance of residential and hotel land uses
- The proposed project has minimal net increase in parking needs due to existing parking supply and residential/hotel focus
- The project area already has a high use of transit and walking versus drive-alone commuting