

944-946 Saratoga Street, East Boston

Submitted Pursuant to Article 80E of the Boston Zoning Code

Submitted By:

CB Equities Saratoga Street, LLC 6 Velma Road Wakefield, MA 01890

Submitted To:

Boston Planning & Development Agency One City Hall Square Boston, MA 02201

Prepared By:

Drago + Toscano, LLP 15 Broad Street, Suite 610 Boston, MA 02109 September 6, 2017

Table of Contents

1.0 Project Summary / Overview	1-1
1.0 Project Summary / Overview	1-1
1.2 Detailed Project Description	1-3
2.0 General Information	2-1
2.1 Project Schedule	2-1
2.2 Project Proponent	2-1
2.3 Public Benefits	2-1
2.4 Compliance with Boston Zoning Code – Use and Dimensional Requirements	2-2
2.5 Public Review Process and Agency Coordination	2-4
3.0 Urban Design and Sustainability	3-1
3.1 Site and Surroundings	3-1
3.2 Shadow Study	3-1
3.3 Urban Design Concept	3-1
3.4 Materials and Finishes	3-1
3.5 Transportation Analysis	
3.6 Urban Design Drawings	3-2
4.0 Geotechnical Information	4-31
5.0 Additional Project Information	5-1
5.1 Preliminary List of Permits or Other Approvals Which May Be Sought	5-1
5.2 Project Team	

Appendices

Appendix A - Urban Design Drawings

Appendix B - Existing Site Conditions

Appendix C - Rendering

Appendix D - Landscape Design

Appendix E - Shadow Study

Appendix F - Accessibility Checklist

Appendix G – Traffic Study

Appendix H – Geotech Information

1.0 PROJECT SUMMARY / OVERVIEW

1.1 Introduction

This Package is being submitted on behalf of CB Equities Saratoga Street, LLC. (the "Proponent") for a new approximately 47,600 gross square foot residential development which includes forty-two residential units, forty-three associated parking spaces, and three bike rooms at 944-946 Saratoga Street in the East Boston neighborhood. (Please see **Figure 1.1**. <u>Project Locus.</u>)

The Project Site comprises approximately 17,800 square feet of underutilized commercial land. The Project Site is identified as Parcel ID 0100533000. The Proposed Project includes a redevelopment of the Project Site, by replacing the existing auto repair/service center with a new residential development and accompanying integrated site, landscape, vehicular and pedestrian access measures, and improvements. The current estimated cost of this Project, based upon the most recent plans, is approximately \$10,411,500.

The goal of the Project is to revitalize the neighborhood by replacing the existing commercial use structure with a residential building that will add new market rate housing units to the increasingly popular East Boston community. As part of the community benefits related to the Proposed Project, the existing and unsightly commercial building will be demolished, and replaced with a residential building that is conducive to the surrounding neighborhood.

The Proposed Project will exceed the 20,000-square foot total build-out requirement for a project in a Boston neighborhood, and therefore will require the preparation of filing(s) under the Small Project Review regulations, pursuant to Article 80 of the Boston Zoning Code. The Proponent will also seek zoning dimensional relief from the Code from the Boston Zoning Board of Appeal related to the size and change of use for the Proposed Project.

Figure 1-1 Project Locus

1.2 Detailed Project Description

The Proposed Project sits on approximately 17,800 square feet of underutilized land along Saratoga Street, which lies within a Neighborhood Shopping Subdistrict (NS) within the Orient Heights section of East Boston. The Project Site is identified as Parcel ID 0100533000. The site borders existing commercial and residential structures on the right and across the street. The site borders Noyes Park on the left and to the rear, which contains baseball fields and open space recreation areas, and services the residents of the East Boston community. Noyes Park fronts both Saratoga Street and Boardman Street, and is currently slated for a major public investment to update the park facilities. The current site has been used as an auto repair/service center, and has sat unoccupied for several years. As part of the community benefits related to this Project, the old commercial building will be demolished and new market rate housing units will be developed. The Proposed Project is located within a Neighborhood Shopping Subdistrict (NS), which makes a multifamily dwelling an allowed and appropriate use, and the size of the property and surrounding structures and uses supports the proposed unit count.

The Proposed Project will be constructed as a five-story residential market rate development with ground floor parking. The Proposed Project is ideally situated within close proximity to the Orient Heights MBTA station, making it convenient for future resident commuters by giving them an alternative means of transportation. The Proposed Project location directly abuts Noyes Park, which will give residents plenty of open space and green space to utilize. The Project is also walking distance to Orient Heights Square and Bennington Street, offering many neighborhood shops and restaurants to service the new residents of the development. The Developers are proposing a project that would include residential units that will revitalize an otherwise underutilized site, and will take advantage of its ideal location next to a public park and thriving business district.

The Developers are proposing a residential project that will include forty-two residential units. The Project will also include the creation of a lobby and bike room on the ground level. The building will be comprised of units of different sizes, which will accommodate East Boston's diverse and growing population. The units will be comprised of twenty-five one-bedroom units and seventeen two-bedroom units. Many of the units will have exterior decks, which will provide residents with exclusive usable outdoor space. Additionally, the Project will include a large second floor landscaped patio, which will be available for use by all future residents. This feature not only provides the residents with additional open space, but it also serves to minimize shadowing and the impact of the building on the direct abutters.

The Developers are cognizant that parking considerations are important to the neighborhood residents, and are proposing a ground level interior parking facility that will house forty-three parking spaces, giving the Project a parking ratio of slightly greater than one to one. In addition to the ground floor, the Project will also include bike rooms on the third and fourth floors. The Proposed Project's proximity to the Orient Heights MBTA station and numerous bus lines will minimalize community impact from resident parking from the Proposed Project.

The Proposed Project is subject to Small Project Review under Article 80E of the Boston Zoning Code. In parallel with this application, the Proposed Project will seek zoning relief from the Boston Zoning Code at the Boston Zoning Board of Appeal related to the size and change of use of the land and structures that currently sit on them.

Table 1-1. Approximate Project Dimensions of 944-946 Saratoga Street

Lot Area:	17,800
Lot Coverage:	89%
Gross Square Feet:	47,600
Gross Square Feet Including Parking Area:	61,153
FAR:	2.67
Floors:	5
Height:	57′

2.0 GENERAL INFORMATION

2.1 Project Schedule

Project Schedule: 944-946 Saratoga Street Project		
Construction Commencement:	Spring 2018	
Construction Completion:	Fall 2019	
Status of Project Design:	Schematic	

2.2 Project Proponent

CB Equities of New England

The principals of CB Equities of New England, LLC (CBE) bring nearly 60 years of experience in construction, logistics, leasing and asset management for mixed-use, office, retail and industrial properties throughout the region's urban and suburban locations. The team has a proven track record of value creation and effective management of a variety of assets, from large complex portfolios, to third party assets across all property classes. CBE principals have also successfully negotiated leases for more than ten million square feet of commercial, industrial and retail space collectively for leading tenants such as Monster, EDS, Verizon, FedEx, Comcast, Peoples United Bank, Santander Bank, GE, Bank of America, TJX and State Street Bank.

2.3 Public Benefits

The Proposed Project will provide substantial benefits to the City of Boston and the East Boston community. The Proposed Project will generate both direct and indirect economic and social benefits to the East Boston neighborhood. The Proposed Project provides for:

- Creating much needed market rate residential housing in the East Boston Neighborhood.
- Creating on-site affordable units, which will meet the Boston Planning & Development Agency's affordable housing standards.
- Revitalizing an industrial parcel and replacing the current automotive repair uses with housing units.
- Constructing a building that will incorporate open space in the form of decking and a common second floor landscaped patio.
- Constructing a ground level parking facility that will accommodate parking spaces for the unit owners, and provide the building with over a one to one parking ratio.
- Installing curbing, which will create approximately five new on-street parking spaces.

- Encouraging alternative modes of transportation through the use of bicycling and walking, due to the close proximity of the MBTA at the Orient Heights Station.
- Creating bike storage within the building to encourage bicycling as a mode of transportation, allowing for less vehicular traffic.
- Replacing industrial/commercial automotive uses, that cause both pollution and traffic congestion, with residential use.
- A \$25,000 contribution to the Boston Parks and Recreation Department.
- Adding revenue in the form of property taxes to the City of Boston.
- Creating temporary construction and labor jobs.

2.4 Compliance with Boston Zoning Code – Use and Dimensional Requirements

The Site is located in a Neighborhood Shopping Subdistrict (NS) in the East Boston Neighborhood District, Article 53 of the Boston Zoning Code (the "Code"). (See **Table 2-1**. <u>944-946 Saratoga Street – Zoning Compliance</u>).

The Site consists of 17,800 square feet of land. Multi-family dwellings are an allowed use under Article 53, Table A.

The Proposed Project will be seeking relief from several other requirements of the existing zoning outlined in Article 53. The proposed structure exceeds the maximum allowable floor-area-ratio ("FAR"). It also exceeds the height limitations for the district and will require relief from the Zoning Board of Appeal. Other likely zoning violations include, insufficient parking, insufficient loading area, and insufficient rear yard setback.

The Site is located in an area that contains a mix of uses. The structures abutting the Project Site are a variety of residential dwellings and commercial buildings. The Site is surrounded by a combination of three-family dwellings, four to six family dwellings, restaurants and other commercial enterprises. Overall, the design team feels that given this location and the immense size of the lot, that the proposed building's height, mass and scale are appropriate for this location.

Table 2.1. 944-946 Saratoga Street - Zoning Compliance

Categories	Neighborhood Shopping Subdistrict	Proposed Project
Minimum Lot Area (Square Feet)	None	17,800 S.F.
Lot Area for Each Additional Dwelling Unit	None	N/A
Floor Area Ratio	1.0	2.67
Minimum Lot Width	None	129 Feet, 6 Inches
Minimum Lot Frontage	None	129 Feet, 6 Inches
Minimum Front Yard	Street Wall Continuity	8 Feet, 3 Inches - Complies
Minimum Side Yard	None	9 Inches/5 Feet, 3 Inches
Minimum Rear Yard	20 Feet	9 Inches
Maximum Building Height	35 Feet	57 Feet
Minimum Useable Open Space Per Dwelling Unit (Square Feet)	50 S.F. / Unit	125 S.F. per Unit
Off-Street Parking Spaces	2.0 Space per Dwelling Unit (84 Spaces)	43 Spaces

2.5 Public Review Process and Agency Coordination

The 944-946 Saratoga Street development team has provided extensive community outreach efforts for the Proposed Project including community meetings in the East Boston neighborhood and presentations before the elected officials. As part of the process, the development team has held an abutter's meeting to explain the Project to surrounding neighbors that will be directly impacted during and after construction. The Proponent received feedback from the neighbors and has made design changes accordingly. The development team also appeared two times before the Orient Heights Neighborhood Council.

As part of the required community outreach process, the Boston Planning & Development Agency ("BPDA") will also hold its own Article 80 required public meeting during which the development team will make a presentation and public comments will be received.

Finally, the development team has met individually with all of East Boston's elected officials and their staff members, including: Representative Adrian Madaro, City Councilor Salvatore LaMattina, and Mayor's Office of Neighborhood Services Liaison for East Boston, Claudia Correa. East Boston's elected officials have had input during the community outreach process and have had staff presence at all community meetings.

The Proponent has also discussed the Proposed Project with representatives of the Boston Planning & Development Agency prior to filing this Briefing Package in order to identify issues/concerns as well as design requirements related to the Proposed Project. Meetings have been held with the BPDA's planners and urban design staff, and the Project design has changed based upon the feedback received.

The Proponent will continue to meet with public agencies, neighborhood representatives, local business organizations, abutting property owners, and other interested parties, and will follow the requirements of Article 80 pertaining to the public review process.

3.0 URBAN DESIGN AND SUSTAINABILITY

3.1 Site and Surroundings

The Project Site is located in East Boston and is bounded by Saratoga Street, a single-story mixed-use building to the right, and Noyes Park, which is a City of Boston owned green space, to the left and to the rear. The Proposed Site sits on approximately 17,800 square feet of underutilized space along Saratoga Street. The current site has previously been used as an auto repair/service center, but the site recently has not been in use. As part of the proposal, this unsightly commercial building will be demolished. Additionally, the wide existing curb cut will be filled and replaced by a more appropriate curb cut, which will be used to access the ground floor parking facility. This process will also allow for the creation of additional on-street parking spaces. The change of use from auto repair/service center to residential will greatly reduce the vehicular traffic on and around Saratoga Street, and will also eliminate the overflow parking that had once been created from this commercial business. For existing site pictures see **Appendix B**.

3.2 Shadow Study

The results of the shadow study show that there are not any major impacts on the adjacent buildings for a majority of the year. Since Noyes Park is immediately adjacent to the site on the west and north, any shadow the building casts in the morning and afternoon at any time during the year will not fall on any buildings. At the end of each day during the winter months, shadows will be cast, but much of this shadow overlaps existing shadows. See **Appendix E** for the complete Shadow Study.

3.3 Urban Design Concept

The proposed development will redevelop an underutilized former auto repair/service building in East Boston into a multi-family residential building. The scale and rhythm of the building takes the existing and adjacent triple decker typology and abstracts them to the scale of the proposed development. The adjacent triple decker bays are re-considered as bays, which continue the rhythm of the street and break up the mass of the building.

On the ground floor, there is a residential lobby as well as a bike room on the street side which enriches the street life of the building and helps to turn the corner to the adjacent Noyes Park.

The site is a five-minute walk to the Orient Heights MBTA Stop and is also served by MBTA bus routes 120, 712, and 713.

For renderings of the proposed Project, please see Appendix C.

3.4 Materials and Finishes

The building has three primary material expressions. The base is composed of brick, except where it opens up and becomes glass at the building entry, as well as the bike room adjacent to

Saratoga Street. Above that the building is a combination of two different colors of clapboard siding with a lighter color used for each of the bays projecting from the building. At the top floor, which is pushed back from the street, is a dark gray fiber cement panel which serves to minimize the presence of the fifth floor to the adjacent context. Secondary to those three expressions, the corner of the building adjacent to Noyes Park is also fiber cement panel to differentiate it from the rest of the volume of the building and mark the entry.

3.5 Transportation Analysis

The Project Site is ideally situated as it is served by multiple modes of public transportation. The Site is located within a short walk of the Orient Heights MBTA Station. Additionally, services are also provided by the MBTA bus routes 120, 712, and 713.

Based upon the traffic study, which was conducted for this proposal, only approximately fourteen peak hour vehicle trips and seventeen evening peak hour trips will be added. This is the equivalent of one vehicle trip every three or four minutes. Based upon this information, it can be concluded that no significant transportation issues are projected as a result of the Proposed Project. Further, the site's conversion to a residential use likely represents a reduced vehicle dependence than the previous auto-based uses.

3.6 Urban Design Drawings

The Proposed Project's urban design drawings and perspectives are contained in **Appendix A** and include:

- A-1 Parking Plan
- A-2 2nd Floor Plan
- A-3 3rd and 4th Floor Plan
- A-4 5th Floor Plan
- A-5 Saratoga Street Elevation
- A-6 West Elevation
- A-7 North Elevation
- A-8 East Elevation

4.0 GEOTECHNICAL INFORMATION

On November 19, 2015, an exploration was conducted at the proposed site. The four explorations at the site were geoprobe explorations for the purpose of supporting an environmental site review by Coneco Engineers & Scientist. The four geoprobes were completed to depths between fifteen and twenty feet below the existing ground surface. Groundwater monitoring wells were installed in each completed geoprobe and soil chemical analytical testing was conducted at each geoprobe. Subsurface soil conditions indicate fill overlying peat and clay, otherwise referred to as organic deposit. Two of the geoprobes indicated that Boston blue clay was underlying the organic deposit. The Boston blue clay, where encountered, was fourteen to sixteen feet below ground surface. See **Appendix H** for the Soil Boring and Monitoring Well Logs.

5.0 ADDITIONAL PROJECT INFORMATION

5.1 Preliminary List of Permits or Other Approvals Which May Be Sought

Agency Name	Permit or Action*	
Local Agencies		
Boston Planning & Development Agency	Article 80 Review and Execution of Related Agreements; Section 80E Certificate of Approval	
Boston Transportation Department	Transportation Access Plan Agreement; Construction Management Plan	
Boston Department of Public Works,	Possible Sidewalk Repair Plan; Curb-Cut Permit;	
Public Improvement Commission	Street/Sidewalk Occupancy Permit; Other	
Boston Zoning Board of Appeals	Possible Variances and Dimensional Relief from Existing Zoning Code Requirements	
Boston Public Safety Commission, Committee on Licenses	Permit for Storage of Fuel in (Emergency Storage) Tanks; Garage Licenses	
Boston Fire Department	Approval of Fire Safety Equipment	
Boston Water and Sewer	Approval for Sewer and Water Connections; Construction Site Dewatering; and Storm Drainage	
Boston Parks Department	Approval for Site Location in Relation to Nearby Parks	
Boston Department of Inspection Services	Building Permits; Certificates of Occupancy; Other Construction-Related Permits	

^{*} This is a preliminary list based on project information currently available. It is possible that not all of these permits or actions will be required, or that additional permits may be needed.

5.2 Project Team

Project Name: 944-946 Saratoga Street	Project Team Information
	CB Equities Saratoga Street, LLC 6 Velma Road
Property Owner / Developer	Wakefield, MA 01890
	John Conley, jfconley@rcn.com
	Bob Macnamara, Bob@atlascommercialre.com
	Drago & Toscano, LLP
	15 Broad Street, Suite 610
Article 80 Permitting Consultant / Legal Counsel / Outreach	Boston, MA 02109
	Jeffrey Drago, Esq., <u>Jdrago@dtlawllp.com</u>
	Matthew Eckel, Esq., Matt@dtlawlip.com
	Embarc Studio
	60 K Street, 3 rd Floor
Architect	Boston, MA 02127
	Dartagnan Brown, dbrown@embarcstudio.com

PARKING PLAN 944-946 SARATOGA STREET EAST BOSTON, MA AUGST 15, 2017

COPHIGH): EMBARC Studio, IC.1 8/16/20179 4.0.43 #/M | C. Ubent/methanbachan/Dimenti 1702/9 944-946 Saratoga St matured 5th floar-00/317 methanbachan ref

*8-'Y

.8 - .69

.0 - .01

13.-7.

151 - 0"

13,- 1

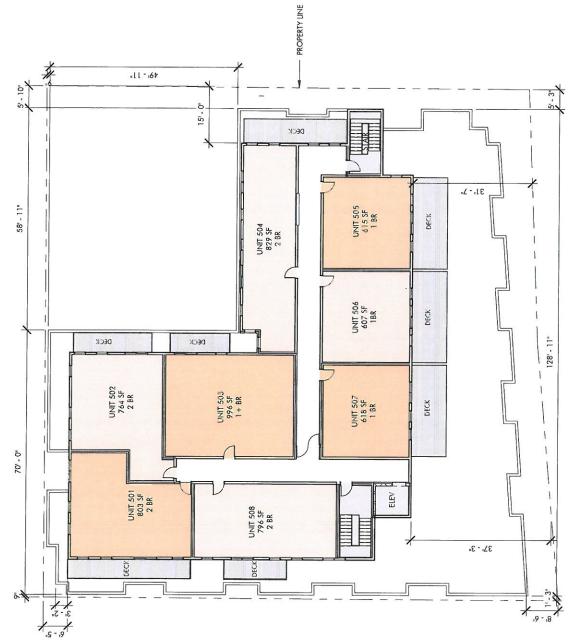
.0 - .01

.Z/1 Z - .OS











SECOND FLOOR

GROUND FLOOR

C FO

FIFTH FLOOR

44 - 6'

THE FOURTH FLOOR

33 - 6'

12.0° 1

corp.ij.hl: EMBARC Studio IIc.] 8/16/2017 9-40:59 AM





WEST ELEVATION 944-946 SARATOGA STREET EAST BOSTON, MA

AUGST 15, 2017





NORTH ELEVATION 944-946 SARATOGA STREET EAST BOSTON, MA

AUGST 15, 2017

epyright: EMBARC Studio, IIc.1 8/16/2017 9:41:18 AM |



EAST ELEVATION 944-946 SARATOGA STREET EAST BOSTON, MA

GROUND FLOOR

EMBARCON CONTRACTOR

copyright: EMBARC Studie. IIc.1 8/16/2917 9:41 28 AM |



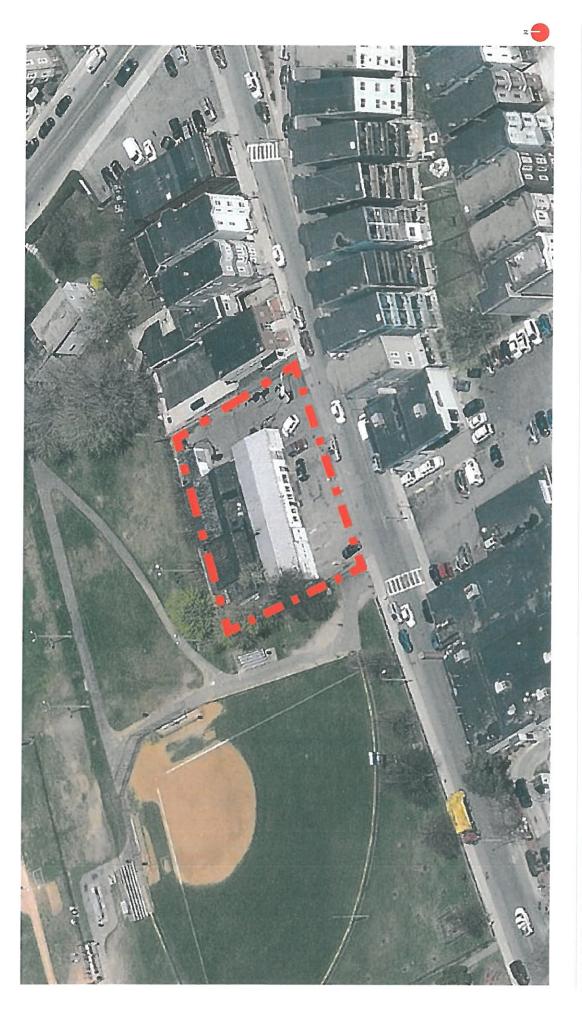


CONTEXT
944-946 SARATOGA STREET
EAST BOSTON, MA







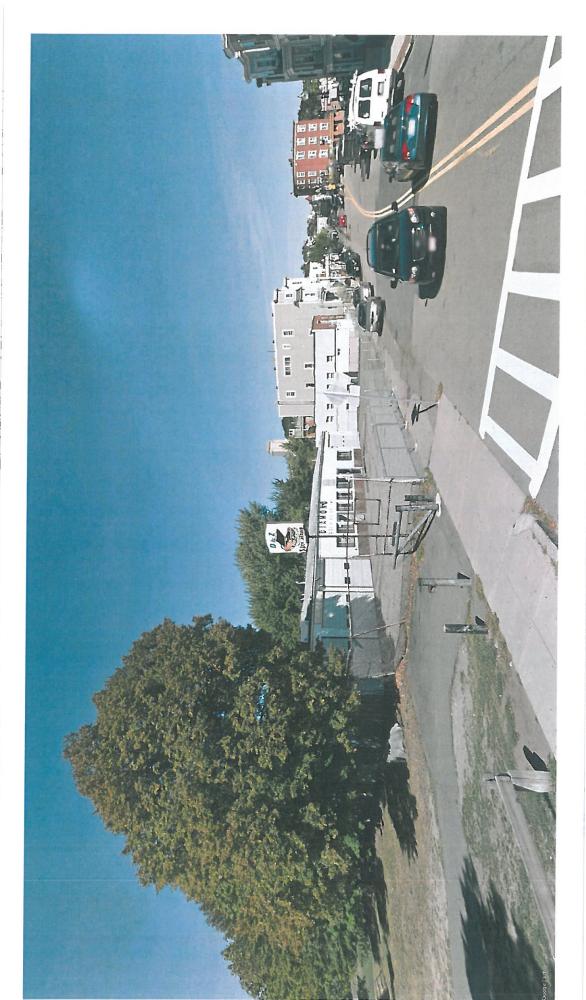




EMBARC ARCHITECTURE BESSEN







copyright: EMBARC Studio, Ic.1 7/13/2017 9 (4:34 AM | C.\Usen\pi



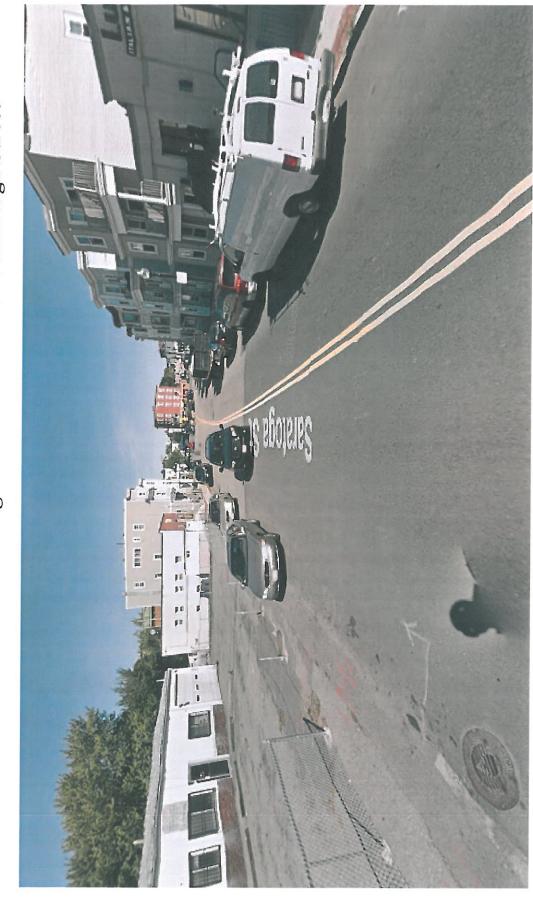
L



nts/17009_944-946 Sarataga St_DD_Imazzocchi.rvt

SITE IMAGE 2
944-946 SARATOGA STREET
EAST BOSTON, MA JULY 13, 2017

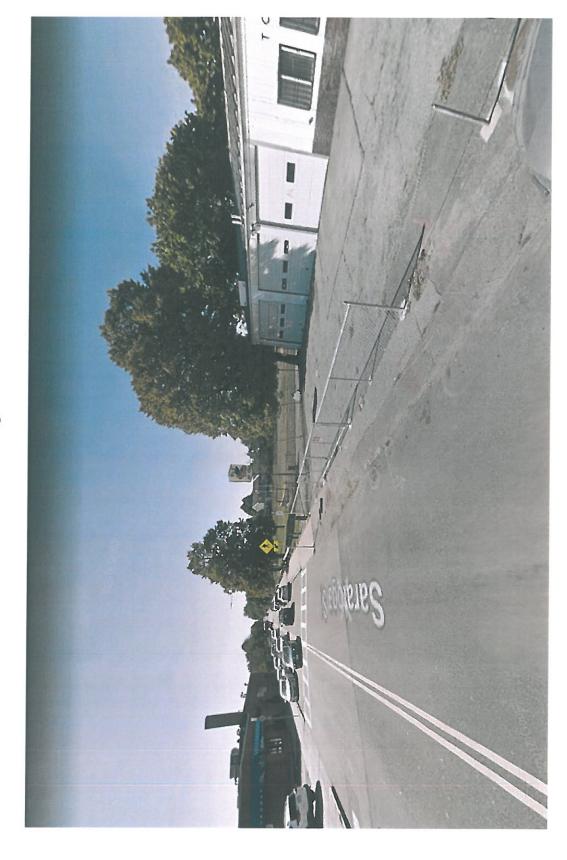




Eastward View Down Saratoga Street From 944-946 Saratoga Street

View of 945 Saratoga Street—Directly Across from 944-946 Saratoga Street

944-946 Saratoga Street—Existing Conditions with Westward View









EMBARC







COMPLETE STREETS
Saratoga Street, considered a
Neighborhood Main/Connector
Street, the sites frontage consists
of 14'-10" of sidewalk.
curb + treewell or brick = 4' width
concrete sidewalk = 5' width

Frontage zone (Private) = 5' width Planters Bike Parking Bench

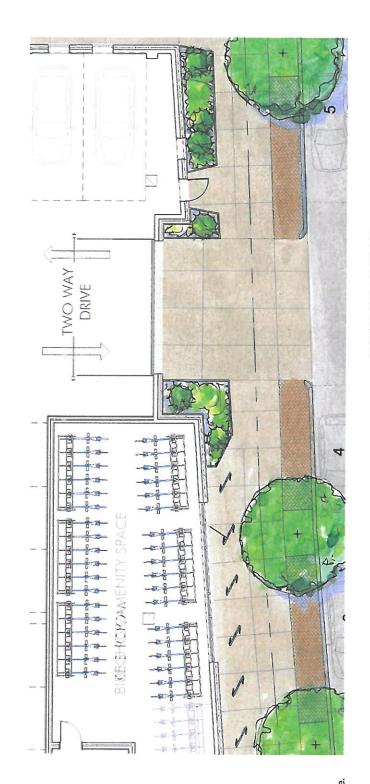


COMPLETE STREETS Saratoga Street, considered a Neighborhood Main/Connector Street, the sites frontage consists of 14'-10" of sidewalk. curb + treewell or brick = 4' width concrete sidewalk = 5' width

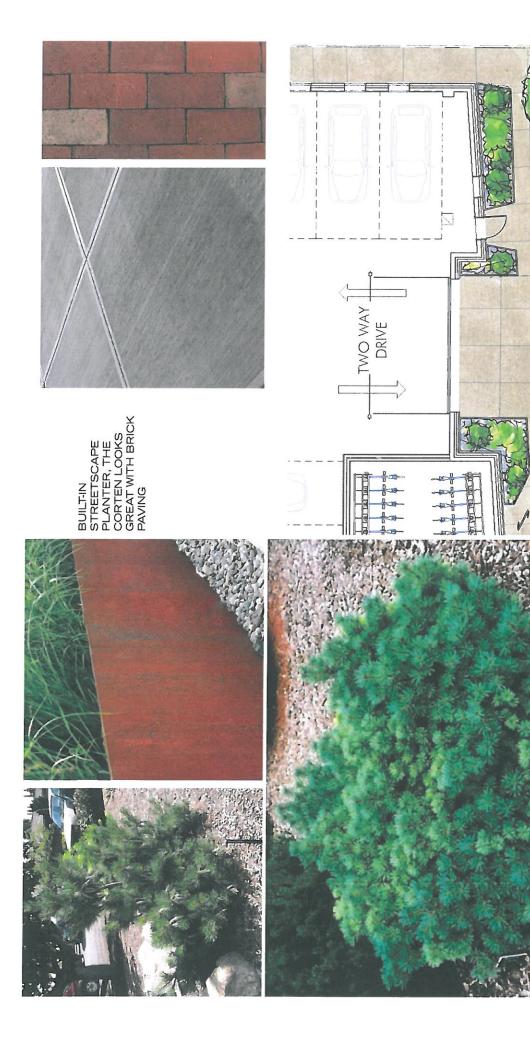
Frontage zone (Private) = 5' width Planters Bike Parking Bench FRONTAGE ZONE TO INCLUDE BIKE PARKING:
Short-term bike parking for 10 bikes using 5 bike racks provided on the sidewalk close to the building entrances following the City of Boston's Bicycle Parking Guidelines



Good bike parking design using permanently fixed racks, orderly appearance, secure and simple to use. CONCEPT

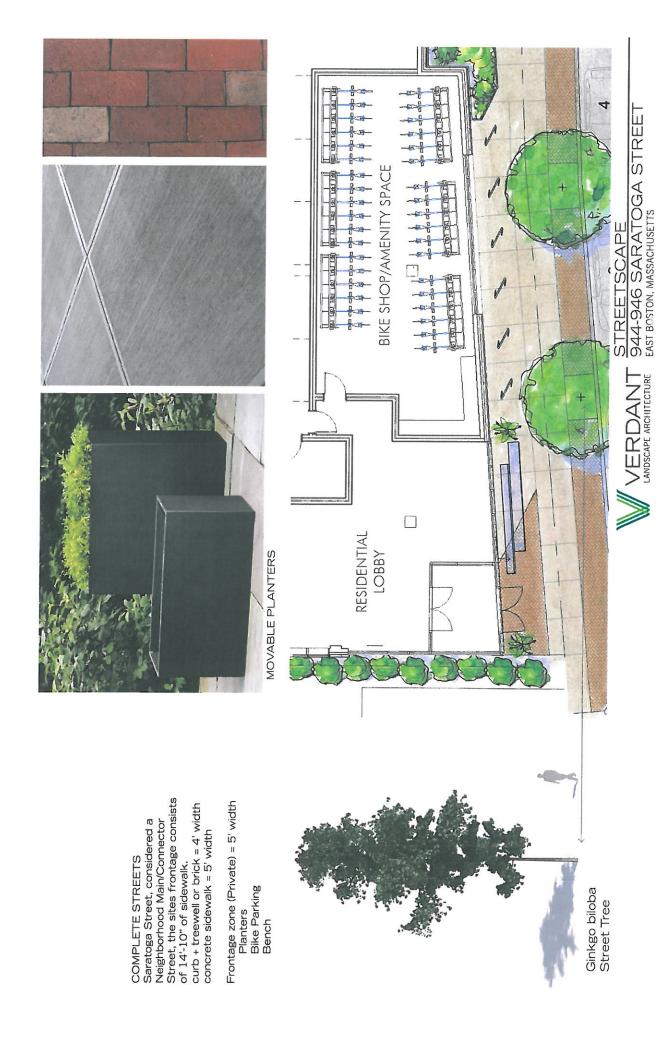


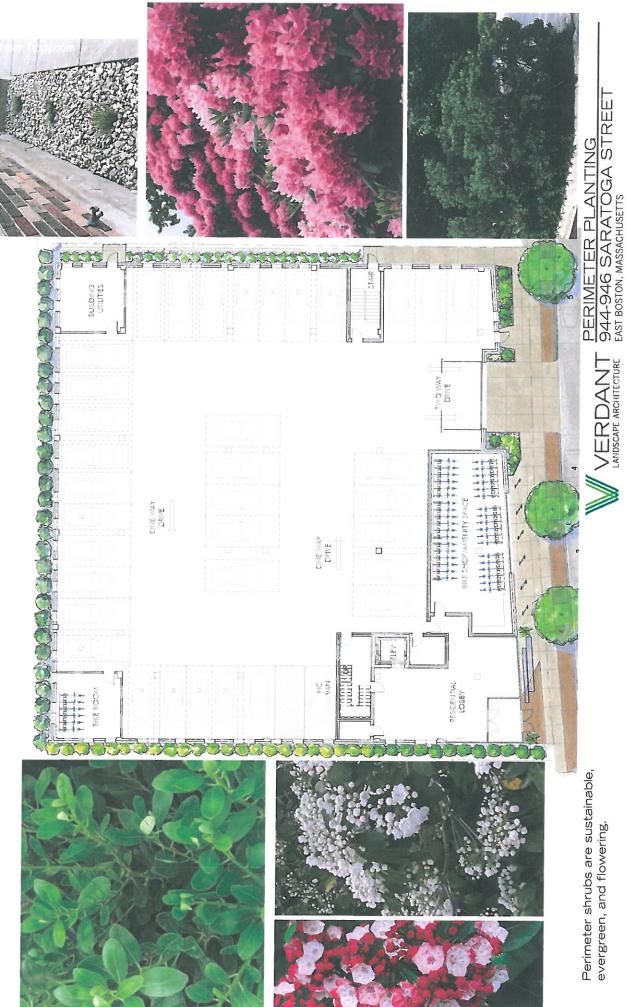




Built-in Corten Streetscape Planters The planters are planted with sculptural evergreen plants for year-round appeal.







Perimeter shrubs are sustainable, evergreen, and flowering.







Proposed Construction Includes: Glass Railing on the parkside

Concrete Pedestal Pavers

Steel Curbs Rectilinear Planters

Three Large Orb Planters Sedum Elipse

Lounge Furniture Cafe Tables

Wood screen on the East side





Glass railing along this edge for views into the tree canopy and views of park beyond

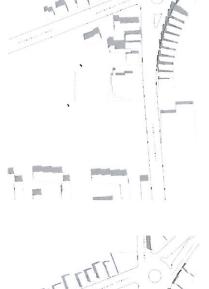


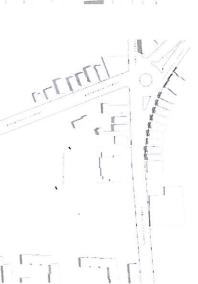


944-946 SARATOGA STREE EAST BOSTON, MASSACHUSETTS JULY 1 RESIDENTS ROOF DECK

VERDANT
LANDSCAPE ARCHITECTURE

3PM







EXISTING SHADOW STUDIES 944-946 SARATOGA STREET EAST BOSTON, MA

3PM

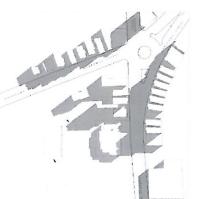
12PM

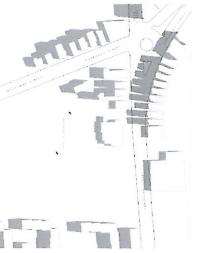
9AM

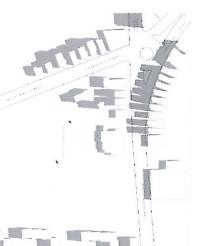
SUMMER SOLSTICE:

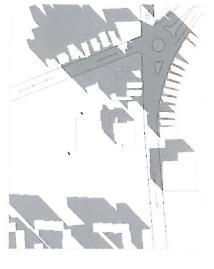
EXISTING SHADOW STUDIES 944-946 SARATOGA STREET EAST BOSTON, MA

AUGST 15, 2017









3PM

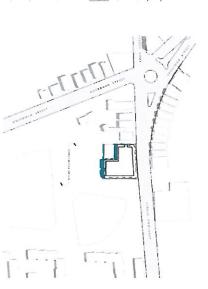
12PM

WINTER SOLSTICE: 9AM











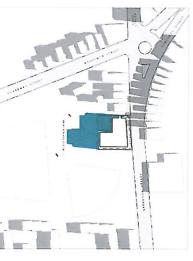


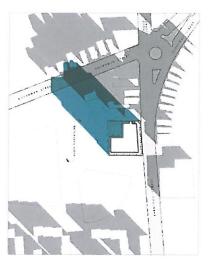
3PM

12PM

SUMMER SOLSTICE: 9AM







3PM

12PM

9AM

WINTER SOLSTICE:

PROPOSED SHADOW STUDIES 944-946 SARATOGA STREET ENT BOSTON, MA

AUGST 15, 2017

Article 80 - Accessibility Checklist

A requirement of the Boston Planning & Development Agency (BPDA) Article 80 Development Review Process

The Mayor's Commission for Persons with Disabilities strives to reduce architectural, procedural, attitudinal, and communication barriers that affect persons with disabilities in the City of Boston. In 2009, a Disability Advisory Board was appointed by the Mayor to work alongside the Commission in creating universal access throughout the city's built environment. The Disability Advisory Board is made up of 13 volunteer Boston residents with disabilities who have been tasked with representing the accessibility needs of their neighborhoods and increasing inclusion of people with disabilities.

In conformance with this directive, the BDPA has instituted this Accessibility Checklist as a tool to encourage developers to begin thinking about access and inclusion at the beginning of development projects, and strive to go beyond meeting only minimum MAAB / ADAAG compliance requirements. Instead, our goal is for developers to create ideal design for accessibility which will ensure that the built environment provides equitable experiences for all people, regardless of their abilities. As such, any project subject to Boston Zoning Article 80 Small or Large Project Review, including Institutional Master Plan modifications and updates, must complete this Accessibility Checklist thoroughly to provide specific detail about accessibility and inclusion, including descriptions, diagrams, and data.

For more information on compliance requirements, advancing best practices, and learning about progressive approaches to expand accessibility throughout Boston's built environment. Proponents are highly encouraged to meet with Commission staff, prior to filing.

Accessibility Analysis Information Sources:

- Americans with Disabilities Act 2010 ADA Standards for Accessible Design http://www.ada.gov/2010ADAstandards_index.htm
- 2. Massachusetts Architectural Access Board 521 CMR http://www.mass.gov/eopss/consumer-prot-and-bus-lic/license-type/aab/aab-rules-and-regulations-pdf.html
- Massachusetts State Building Code 780 CMR http://www.mass.gov/eopss/consumer-prot-and-bus-lic/license-type/csl/building-codebbrs.html
- 4. Massachusetts Office of Disability Disabled Parking Regulations http://www.mass.gov/anf/docs/mod/hp-parking-regulations-summary-mod.pdf
- MBTA Fixed Route Accessible Transit Stations http://www.mbta.com/riding the t/accessible services/
- 6. City of Boston Complete Street Guidelines http://bostoncompletestreets.org/
- City of Boston Mayor's Commission for Persons with Disabilities Advisory Board www.boston.gov/disability
- 8. City of Boston Public Works Sidewalk Reconstruction Policy http://www.cityofboston.gov/images documents/sidewalk%20policy%200114 tcm3-41668.pdf
- City of Boston Public Improvement Commission Sidewalk Café Policy http://www.cityofboston.gov/images_documents/Sidewalk_cafes_tcm3-1845.pdf

Glossary of Terms:

- Accessible Route A continuous and unobstructed path of travel that meets or exceeds the dimensional and inclusionary requirements set forth by MAAB 521 CMR: Section 20
- 2. Accessible Group 2 Units Residential units with additional floor space that meet or exceed the dimensional and inclusionary requirements set forth by MAAB 521 CMR: Section 9.4
- 3. Accessible Guestrooms Guestrooms with additional floor space, that meet or exceed the dimensional and inclusionary requirements set forth by MAAB 521 CMR: Section 8.4
- 4. *Inclusionary Development Policy (IDP)* Program run by the BPDA that preserves access to affordable housing opportunities, in the City. For more information visit: http://www.bostonplans.org/housing/overview
- 5. **Public Improvement Commission (PIC)** The regulatory body in charge of managing the public right of way. For more information visit: https://www.boston.gov/pic
- 6. **Visitability** A place's ability to be accessed and visited by persons with disabilities that cause functional limitations; where architectural barriers do not inhibit access to entrances/doors and bathrooms.

Project Name:	944 946 Sarataga	Street	
Froject Name.	944-946 Saratoga Street		
Primary Project Address:	944-946 Saratoga Street East Boston, MA 02128		
Total Number of Phases/Buildings:	1		
Primary Contact (Name / Title / Company / Email / Phone):	Jeffrey Drago / Drago & Toscano, LLP / jdrago@dtlawllp.com / 617.391.9450		
Owner / Developer:	CB Equities Saratoga Street, LLC		
Architect:	Embarc Studio LLC.		
Civil Engineer:	TBD		
Landscape Architect:	Verdant Landscape Architecture		
Permitting:	Drago & Toscano, LLP		
Construction Management:	TBD		
At what stage is the project at time	of this questionnaire?	Select below:	
	PNF / Expanded PNF Submitted	Draft / Final Project Impact Report Submitted	BPDA Board Approved
	BPDA Design Approved	Under Construction	Construction Completed:
Do you anticipate filing for any variances with the Massachusetts Architectural Access Board (MAAB)? <i>If yes,</i> identify and explain.	No		
Building Classification and Describes This section identifies preliming	5	ormation about the project in	ncluding size and uses
What are the dimensions of the proj	ect?		
Site Area:	17,801 SF	Building Area:	47,600 GS
		Number of Stories:	

First Floor Elevation:	O' Elev.	Is there below gr	ade space:	No
What is the Construction Type? (S	elect most appropriate	type)		
	Wood Frame	Masonry	Steel Frame	Concrete
What are the principal building us	es? (IBC definitions are	below - select all appr	opriate that app	oly)
	Residential – One - Three Unit	Residential - Multi- unit, Four +	Institutional	Educational
	Business	Mercantile	Factory	Hospitality
	Laboratory / Medical	Storage, Utility and Other		
List street-level uses of the building:	Residential Lobby, E	Rike Storage, Parking		

3. Assessment of Existing Infrastructure for Accessibility:

This section explores the proximity to accessible transit lines and institutions, such as (but not limited to) hospitals, elderly & disabled housing, and general neighborhood resources. Identify how the area surrounding the development is accessible for people with mobility impairments and analyze the existing condition of the accessible routes through sidewalk and pedestrian ramp reports.

Provide a description of the neighborhood where this development is located and its identifying topographical characteristics:	The proposed site is in East Boston, situated next to Noyes Park to the northwest. The neighborhood is primarily multi-family residential and retail use.
List the surrounding accessible MBTA transit lines and their proximity to development site: commuter rail / subway stations, bus stops:	Orient heights Station, Blue Line, .2 mile walk / Bennington St @ Trident St, 120 Bus, 0.1 mile walk.
List the surrounding institutions: hospitals, public housing, elderly and disabled housing developments, educational facilities, others:	Surrounding institutions include the Curtis Guild School approximately 0.3 miles to the east, the East Boston YMCA 0.2 miles to the northeast as well as the BCYF Martin Pino Community Center just under 1/4 of a mile from the site down Boardman Street.
List the surrounding government buildings: libraries, community centers, recreational facilities, and other related facilities:	The nearest facility in the neighborhood is the BCYF Martin Pino Community Center just under ¼ of a mile from the site down Boardman Street. Another public amenity is the Boston Public Library's East Boston Branch, approximately 1.2 miles west, and Constitution Beach approximately 0.2 miles to the south.

4. Surrounding Site Conditions - Existing:

This section identifies current condition of the sidewalks and pedestrian ramps at the development site.

Is the development site within a historic district? <i>If yes,</i> identify which district:	No
Are there sidewalks and pedestrian ramps existing at the development site? <i>If yes</i> , list the existing sidewalk and pedestrian ramp dimensions, slopes, materials, and physical condition at the development site:	Yes, existing 9' wide sidewalk is asphalt with no curb, in poor condition.
Are the sidewalks and pedestrian ramps existing-to-remain? If yes, have they been verified as ADA / MAAB compliant (with yellow composite detectable warning surfaces, cast in concrete)? If yes, provide description and photos:	No

5. Surrounding Site Conditions - Proposed

This section identifies the proposed condition of the walkways and pedestrian ramps around the development site. Sidewalk width contributes to the degree of comfort walking along a street. Narrow sidewalks do not support lively pedestrian activity, and may create dangerous conditions that force people to walk in the street. Wider sidewalks allow people to walk side by side and pass each other comfortably walking alone, walking in pairs, or using a wheelchair.

Are the proposed sidewalks consistent with the Boston Complete Street Guidelines? <i>If yes</i> , choose which Street Type was applied: Downtown Commercial, Downtown Mixed-use, Neighborhood Main, Connector, Residential, Industrial, Shared Street, Parkway, or Boulevard.	Yes, Neighborhood Main/Connector
What are the total dimensions and slopes of the proposed sidewalks? List the widths of the proposed zones: Frontage, Pedestrian and Furnishing Zone:	15' – 4", Frontage Zone to be 7' – 4", Pedestrian Zone to be 8' – 0", and the Furnishing Zone 7' – 4".
List the proposed materials for each Zone. Will the proposed materials be on private property or will the proposed materials be on the City of Boston pedestrian right-of-way?	Frontage/Furnishing Zone to have planters and bike racks, the Pedestrian Zone is to be standard concrete paving, to replace existing asphalt, with brick paving accents at building entrances and along curb. Brick accent to be on City of Boston pedestrian right-of-way

Will sidewalk cafes or other furnishings be programmed for the pedestrian right-of-way? <i>If yes,</i> what are the proposed dimensions of the sidewalk café or furnishings and what will the remaining right-of-way clearance be?	No
If the pedestrian right-of-way is on private property, will the proponent seek a pedestrian easement with the Public Improvement Commission (PIC)?	N/A
Will any portion of the Project be going through the PIC? <i>If yes,</i> identify PIC actions and provide details.	N/A
	al Access Board Rules and Regulations 521 CMR Section 23.00 quirement counts and the Massachusetts Office of Disability –
What is the total number of parking spaces provided at the development site? Will these be in a parking lot or garage?	43
What is the total number of accessible spaces provided at the development site? How many of these are "Van Accessible" spaces with an 8 foot access aisle?	2 with 1 Van accessible spot
Will any on-street accessible parking spaces be required? <i>If yes,</i> has the proponent contacted the Commission for Persons with Disabilities regarding this need?	No
Where is the accessible visitor parking located?	N/A
Has a drop-off area been identified? If yes, will it be accessible?	N/A

7. Circulation and Accessible Routes:

The primary objective in designing smooth and continuous paths of travel is to create universal access to entryways and common spaces, which accommodates persons of all abilities and allows for visitability-with neighbors.

Describe accessibility at each entryway: Example: Flush Condition, Stairs, Ramp, Lift or Elevator:	Flush condition at entryway
Are the accessible entrances and standard entrance integrated? If yes, describe. If no, what is the reason?	Yes, residential Lobby to be a flush condition with the sidewalk at building exterior. The rear entry to the lobby is to be a flush doorway condition from the garage, from the Lobby elevator access will provide access to upper floors.
If project is subject to Large Project Review/Institutional Master Plan, describe the accessible routes way- finding / signage package.	N/A

8. Accessible Units (Group 2) and Guestrooms: (If applicable)

In order to facilitate access to housing and hospitality, this section addresses the number of accessible units that are proposed for the development site that remove barriers to housing and hotel rooms.

What is the total number of proposed housing units or hotel rooms for the development?	42
If a residential development, how many units are for sale? How many are for rent? What is the breakdown of market value units vs. IDP (Inclusionary Development Policy) units?	42 units for rent. IDP TBD.
If a residential development, how many accessible Group 2 units are being proposed?	3 units will be Group 2
If a residential development, how many accessible Group 2 units will also be IDP units? If none, describe reason.	IDP TBD
If a hospitality development, how many accessible units will feature a	N/A

wheel-in shower? Will accessible equipment be provided as well? If yes, provide amount and location of equipment.	
Do standard units have architectural barriers that would prevent entry or use of common space for persons with mobility impairments? Example: stairs / thresholds at entry, step to balcony, others. <i>If yes</i> , provide reason.	No
Are there interior elevators, ramps or lifts located in the development for access around architectural barriers and/or to separate floors? <i>If yes</i> , describe:	No
	nd past required compliance with building codes. Providing an overall ual participation of persons with disabilities makes the development an unity.
Is this project providing any funding or improvements to the surrounding neighborhood? Examples: adding extra street trees, building or refurbishing a local park, or supporting other community-based initiatives?	The development team will be making a \$25,000 contribution to the Parks Department. They have also agreed to shovel the sidewalk on Saratoga Street in front of Noyes park for 10 years. In the spring and fall they will provide grass seed for over seeding in Noyes Park and they will provide portable toilets for the little league. The project will be adding street trees and adding five legal street parking spots to the neighborhood
What inclusion elements does this development provide for persons	There will be an accessible common room as well as an accessible outdoor

Are any restrooms planned in common public spaces? <i>If yes</i> , will any be single-stall, ADA compliant and designated as "Family"/ "Companion" restrooms? <i>If no</i> , explain why not.	No, the building is small and therefore all residential units are very close by.
Has the proponent reviewed the proposed plan with the City of Boston Disability Commissioner or with their Architectural Access staff? If yes, did they approve? If no, what were their comments?	Meeting to be scheduled
Has the proponent presented the proposed plan to the Disability Advisory Board at one of their monthly meetings? Did the Advisory Board vote to support this project? If no, what recommendations did the Advisory Board give to make this project more accessible?	Meeting to be scheduled

10. Attachments

Include a list of all documents you are submitting with this Checklist. This may include drawings, diagrams, photos, or any other material that describes the accessible and inclusive elements of this project.

Provide a diagram of the accessible routes to and from the accessible parking lot/garage and drop-off areas to the development entry locations, including route distances.

Provide a diagram of the accessible route connections through the site, including distances.

Provide a diagram the accessible route to any roof decks or outdoor courtyard space? (if applicable)

Provide a plan and diagram of the accessible Group 2 units, including locations and route from accessible entry.

Provide any additional drawings, diagrams, photos, or any other material that describes the inclusive and accessible elements of this project.

0

•			
•			
•			

This completes the Article 80 Accessibility Checklist required for your project. Prior to and during the review process, Commission staff are able to provide technical assistance and design review, in order to help achieve ideal accessibility and to ensure that all buildings, sidewalks, parks, and open spaces are usable and welcoming to Boston's diverse residents and visitors, including those with physical, sensory, and other disabilities.

For questions or comments about this checklist, or for more information on best practices for improving accessibility and inclusion, visit www.boston.gov/disability, or our office:

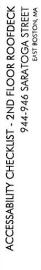
The Mayor's Commission for Persons with Disabilities 1 City Hall Square, Room 967, Boston MA 02201.

Architectural Access staff can be reached at:

accessibility@boston.gov | patricia.mendez@boston.gov | sarah.leung@boston.gov | 617-635-3682



omental 17:09_944-946 Sanatoga SI_reduced 5th floor-08:0317_mschanbacher.rd c. pyrighl: EMBARC Studio, Ic. | 8/16 :017 11:02:31 AM |







To: Robert Macnamara John Conley

From: David Black

Date: March 21, 2017

Memorandum

Project #: 13849.00

Re: Proposed Residential Development

944 - 946 Saratoga Street, East Boston, MA

Traffic Study

As requested, VHB has reviewed the proposed redevelopment by CB Equities Saratoga Street LLC of a site at 944-946 Saratoga Street in East Boston for residential use (the Project). The Project would include up to 46 residential apartments, totaling approximately 49,500 SF, supported by 36 parking spaces on the first level. The existing buildings on the site comprises approximately 7,765 SF, which, until about a year ago, were used as an auto repair, detailing shop and industrial machine shop. The auto-related uses would be extinguished by the proposed Project.

VHB has performed a review of the Project and preliminary site plan to inform the transportation aspects of the project, including a Trip Generation Analysis to estimate the level of traffic generation associated with the Project. In addition, VHB has performed field observations and reviewed the site plans and proposed access arrangements. The purpose if this memorandum is to summarize the key findings of this traffic analysis.

Transit Access

The site is well served by public transportation, being located within a short walk of the MBTA Orient Heights Blue Line station. In addition, service is provided by MBTA bus routes 120, 712 and 713, with bus stops located close by on Boardman Street, Bennington Street and Saratoga Street (east of Bennington Street).

Trip Generation

A description of the trip generation methodology and calculations is attached. Almost half of the Project trips are expected to be non-auto trips, reflecting the site's good access to transit services. In summary, the analysis indicates that a relatively limited number of vehicle trips are expected to be generated by the Project, with a projected total of approximately 144 daily vehicle trips (total inbound and outbound). During the critical commuter peaks on the local roadway network, 14 morning peak hour vehicle trips and 17 evening peak hour vehicle trips are projected, equivalent to 1 vehicle trip every 3 or 4 minutes, approximately.

These levels of trip generation would not be expected to have any noticeable impact to traffic operations in the vicinity of the site. As Project trips would be split in both directions on Saratoga Street (and further dispersed to Boardman Street and Bennington Street), the maximum peak hour increase in two-way traffic on Saratoga Street is expected to be limited to approximately 12 Project trips. Based on available 2012 traffic data, this section of Saratoga Street carries approximately 1,400 vehicles (total both directions) during the evening commuter peak hour. Therefore, the expected increase due to the Project would be less than 1%, or 1 vehicle trip every 5 minutes.

It is also worth noting that the previous use of the site for auto-based uses, which would be permanently extinguished, most likely generated similar or greater numbers of vehicle trips.

Ref: 13849.00 March 21, 2017 Page 2

Site Access

The Project will provide a significant improvement due to the elimination of the existing extensive curb-cut along the site frontage on Saratoga Street. The proposed site plan shows the Project driveway towards the eastern end of the site frontage, thereby locating it further from the nearby crosswalk at Noyes Playground. Sight distances along Saratoga Street are generally good because of its straight alignment.

Parking

The Project will provide thirty-six (36) parking spaces at a parking ratio of 0.75 spaces per unit. This ratio reflects the Project's location within a short walk of the Orient Heights MBTA Blue Line station, and is consistent with the Boston Transportation Department's (BTD) *Parking in Boston (2011)* guidelines of 0.75 – 1.25 spaces per unit. In addition, four or five (4 or 5) new on-street parking spaces will be created as a result of the significant reduction in the existing curbcut along the entire frontage of the site on Saratoga Street. These new spaces are expected to be designated as Resident Permit parking for East Boston residents, thereby increasing the supply of resident spaces.

In addition, the Project will provide long-term bicycle parking spaces at a ratio of 1.00 spaces per unit in accordance with BTD's *Bicycle Parking Guidelines*.

Conclusion

Based on this functional traffic evaluation, no significant transportation issues are projected as a result of the proposed Project, and the site's conversion to residential use likely represents a reduced vehicle dependence than the previous auto-based uses. If re-activated, the previous auto-based use would most likely generated similar or greater numbers of vehicle trips.

Ref: 13849.00 March 21, 2017

Page 3

TRIP GENERATION ATTACHMENT

Trip-generation estimates were developed based on standard Institute of Transportation Engineers (ITE) Trip Generation Manual (9th Edition) rates for Land Use Code 220 (Apartment). Unadjusted ITE vehicle-trips were converted to person-trips by application of a 1.13 Average Vehicle Occupancy (AVO), to reflect the national basis for ITE data. The resulting adjusted person trip generation for the proposed project is summarized in Table 1.

Table 1: Person Trips

	Daily	AM Peak	PM Peak
Entering	160	5	19
<u>Exiting</u>	<u>160</u>	<u>20</u>	<u>10</u>
Total	320	25	29

Source: ITE

Mode Share and Average Vehicle Occupancy

To break down the person trips by mode, local mode share data was applied to the person trips. Mode-share characteristics for the project are based on US Census 2011-2015 American Community Survey 5-year Estimates for Census Tract 510. Table 2 presents the mode-shares used as a basis for estimating project trip generation. Drive-alone and rideshare were combined to determine overall automobile mode share. The AVO for automobile trips is 1.07 based on the 2009 National Household Survey (NHTS).

Table 2: Mode-Share

Mode	Percentage of Trips (Residential					
Automobile (SOV)	48%					
Automobile (HOV)	3%					
Transit	47%					
Walk/Other	2%					

Source: 2011-2015 American Community Survey 5-year Estimates

Project Trip Generation

The resulting project trip generation by mode for the proposed project is summarized in Table 3.

Ref: 13849.00 March 21, 2017 Page 4

Table 3: Project Trip Generation by Mode

	Aut	omobile		Transit		Walk/Other			
	Daily	AM Peak	PM Peak	Daily	AM Peak	PM Peak	Daily	AM Peak	PM Peak
Entering	87	3	11	85	3	10	4	0	1
Exiting	<u>87</u>	<u>11</u>	<u>6</u>	<u>85</u>	<u>10</u>	<u>6</u>	<u>4</u>	<u>1</u>	0
Total	174	14	17	170	13	16	8	1	1

The project at 944-946 Saratoga Street is expected to generate approximately 14 vehicle trips (3 inbound and 11 outbound) during the morning peak hour and 17 vehicle trips (11 inbound and 6 outbound) during the evening peak hour. The proposed 850 SF retail unit is not expected to attract a significant number of vehicle trips, particularly during the peak traffic hours, as it would not be destination retail.

SOIL BORING AND MONITORING WELL LOGS

	CO	neco en	GINEER	S & SCIENTISTS	GEOPROBE SOIL	BORING &	MONITORIN	IG WELL F	EPORT	
PRO.	SECT.	8990			BORING NO	NG NO GP 01/CMW 01				
TOC:	MOTTA	944 946 Sar	atoga Street	, Hoston Massachusetts	PAGE 1 OF	1			.	
DRII	LINGCO	New Englan	d Geotech,	Incorporated	DATH STARTED	11/19/2015				
EQU	IPMENI	Geoprobe 66	0 truck-mo	content drill rip	DATE FINISHED.	11/19/2015				
DRII	LED BY	Hayes Remb	ıjas .		SURFACE ELEVATION	9 fect above M	ISI.			
INSP	ECTED BY.	Robert Sheld	lon							
	GROUND	WATER OBS	FRVATIC	ONS				CORE		
į.	NOT	ENCOUNTER	rn.		l	ROD	SAMPLER	BAR		
	DEPTH		ED BILLEATTO	N TIME	TYPF SIZE ID	Geoprobe 1" II)	Macro-core	2 25" O()		
	Approx 9				PENETRATION:	5'	2, 3,1D	5'		
200740000	. 42:17			Folks provide the second contract of the seco	WE DATE					
DEPTH	SAMPLENG	WELL	WATER	LII	HOLOGY	and the street of	SANGLE	PFN	FIELD	
(A)	DEPUT FROM TO	DATA	TAHLE (A)	(Descript	ion of materials)		מו	RFCOV (in fin.)	SCREENING (upm)	
0.0		113		0-16": Concrete flooring						
				16-24": Gravelly Sand Fill 85% fine sand 15% subangular pravel.	Mark day alarkt ader terra er	and much much	(a) 01 (0-2)		1.5	
				24-33": Concrete	daka, my supu naci, nace co	YO WHICH CONT. TOTAL				
				33-84": Gravelly Sand Fill						
				85% fine sand 15% subsugular gravel anthropogenic insternal (coal and coal a	black, diy shght odor, contain	mp time	GP 01 (2-4)		05	
>0				The same of the sa	,					
>0	 							60/26		
							GP 01 (4-6)	12 1	03	
	**********			84 105": Coal Ash and Slag Fill						
							GP 01 (6-8)		0.2	
	1		A	105 123": Gravelly Silry Clay 80% clay, 10% valt, 10% subrounded grav	el may beauty moust mathead	ndar	000			
			_	o viii. To t ini. 10 to toolombra (51).	TO SAN WORK IDAM, WELLER	odoi				
100				123-210": Peat and Clay			GP-01 (8-10)	6027	06	
				70% organics. 20% clay. 5% silt gray-bit	iwn tunist peat odor				- 1	
							GP-01 (10 12)		03	
							GP 01 (12-14)		0.1	
150								60:15		
		V								
							GP 01 (14 16)		03	
	<u> </u>	- 1		210 240" Boston Blue Clay			771 01 (1 (1 III			
				\$0% clay 20% fine saud blue gray dama	inverse udos		GP 01 (16 18)		0.3	
.00							GP 01 (18 20)	60/54	01	
	narry hu			GENERAL REMARKS						
		Native Mater Bentomic Sækl	als	Soil samples submitted for laboratory Headspace screening conducted using	malysis of FPH VCC's PCBs a MiniRAL Model 3000 PID	and RCRA 8 h calibrated to a 1	fetals from the 8 90 ppm isolanyle	10' depth interest standard	val	
	目	2" PVC Well 2" PVC Well		Bottom of Boring, 70' Screen Interval > 15'						
	5	Denotes appro	oximute	Sand 4 5-20"						
	=	blomgmett (levation	Bentonite 3 5 4 5'						
		+ Personal State								

				US & SCIENTISTS	GEOPROBE SOIL				340
РКОЛ		8990			BORING NO.	GP-02/CMW	1-02		_
LOCA	KOITA			, Boston Massachusetts	PAGE 1 OF	1			
DRILL	LING CO	New Engla	and Geotech,	Incorporated	DATE STARTED	11/19/2015			
EQUI	PMFN1	Geoprobe	660 truck inc	unted drill 119	DATE FINISHED.	11/19/2015			
DRILL	TED BY	Hayes Ren	nbijas		SURFACE FLEVATION	9 feet above	MSI.		-
INSPE	CTED BY	Robert She	ldou						-
			BSERVATIO	ONS		ROD	SAMPLER	CORF	
		NCOUNTE			1YPE	Geoprobe	Macro core	Geoprobe	
	Approx 6 5		ABILIZATIO	N HMF.	SIZE ID	1-3D	2°1D	2 25" OD	-
	приска у				PENETRATION:	5'	5'	<u> </u>	•
e elicent	Australia	3320-022-1	r salata		APLE DATA	matan muu	lan Volume		111111
(n)	SAMPLING	DAIA	WATER TABLE		THOLOGY		SAMPLE.	PFN'	m
(1.7)	PROM: TO	LAIN	(fi)	(Descrip	phon of materials)		ID.	RECOV (m.nn.)	SCHE
00				0-2": Asphalt Pavement			 	(mint)	(59)
				2-22": Gravelly Sand Fill 70% fine sand 25% submigular pravel	Ser outs black days and	12			
				ammobolicuic marcial (puck galanca	its)	cremmy6			
-				22-28": Silty Sand Fill 65% fine cand, 30% silt, 5% subaugular	novel beautiful		GP-07 (0-7)		0
				28-32": Gravelly Sand Fill 80% fine sand, 15% subangular gravel, 32.56" Gravelly Sand Fill		udoi		******	
1				70% fine sand, 25% subangular gravel	5% silt, black dry, tio odor	i cardonium je	GP-07 (7-4)		0.
50		-30	1	anthropopers: material (brick fragules	ets)				ļ
				56-72"; Silty Gravelly Sand Fill				60/36	-
- 1				65% fine sand, 25% subangular gravel anthropogenic material	10% silt derk brown, dry na o	dar continuing	GP-02 (4 6)		0
1									
-				72.76": Silty Sand Fill 65% fine yand 30% silt. 3% subangular	many de monda				
I				76.85"; Silty Sand Fall			GP 02 (6 8)		
1			¥	70% fine stud 25% subangular gravel authropogemic material (coal coal act)	hack framents)	contamine	Cir U (G a)		0
		· 🗎	_	88-100": Gravelly Silry Clay				0.57.44	
10.0			1	75% clay 15% subangular gravel 10% odor	ult brown-prop, moust tear or	parary wetland	~~~~~~		
0.0				100 180" Peat and Clay			CFP-02 (8-10)	60/27	1.
			1	70% organics, 25% clay, 5% silt gray be	iows, turnst, peat odor				
1									
							GP 02 (10 12)		10
t		· 📙 '					-		
			1						
							GP-02 (12-14)		10
50									
~				150" Bottom of Buring			GP-0.3 (14-15)	60 15	17
	J								
							·····		
-	-								
-									
1									
							• • • • • • • • • • • • • • • • • • • •		
00									
23		Native Mate Sentonite	nak	GENERAL REMARKS Soil samples submitted for laborate Headspace screening conducted us	ory analysis of FPH V(X v P ing a MiniRA): Model 3060 F	CBs and RCKA	8 Metals from the a 100 ppm (sobn)	8 10' depth a ylcoc standard	iterval
	-	PVC Wel	l Screen	Bottom of Boring 15			NA WA		
				Scren Interval > 15					
2° PVC Well Riser Denotes approximate			마이지막 맛이면 그는 그렇게 되는 일을 가게 되었다.						

PROJ	ECT	8990			BORING NO	GP-03:CMW	7-03			
LOCA	ATION	944-946 Sar	atoga Street	. Boston Massachusetts	PAGE 1 OF	1			-	
DKII.	JJNG CO	New Englan			DATE STARTED	11/19/2015			-	
	PMENT	7974 PGW 458		unted dull 112					•	
	LED BY	2000 1 2000		uanco (utu 119	DATE FINISHED	11/19/2015				
		Hayes Rent			SURFACE ELEVATION	10 feet above	10 feet above MSL			
INSPI	ECTED BY	Robert Sheli	dou							
	GROUND	WATER OB	SERVATIO	DNS				CORF		
	NO) I	NCOUNTE	ern		F3/D1	KOD	SAMPLER	HAR		
	DEPTH	1	BILIZATIO	N TIME	I YIT: SLZE ID.	Geoprobe 1" IO	2*111	Geoprobe	•	
	Approx. 8°				PENETRATION	2,	3	3.52, OD	•	
cocess	1.50.0 31.00.10.10.10.00.00.00.00.00.00.00.00.00		e la colonia de la colonia						•	
EPIH	SAMPLING	WHI.	WATE	SAB	IPLE DATA:				e veli	
(h)	DEPTH	DATA	TABLE		tion of materials)		SAMPLE	PEN/ RECOV	SCREENING	
	FROM - TO		(ft)					(in/m)	(ppsa)	
0.0		23 23		0-2": Asphalt Payement 2-36": Gravelly Sand Fill						
				70% fine sand 25% subangular gravel,	5% silt, black, dry nu oden co	attannia				
				anthropogeme material (brick fragmen	15)		GP-03 (0-2)		01	
	<u> </u>									
				36-49"; Coal Ash and Slag Fill						
	1						CD CO CO			
5.0				49-93": Gravelly Sand Fill			Cb 63 (5-4)		01	
				70% fine sand 25% subangular parcel 5% salt black day no oder, contaming			60.42			
				anthropogenic material (brick fragment	is)					
							GP-03 (4 6)		1.5	
		🗐		93-125": Gravelly Silty Clas 75% clay, 15% subangular gravel, 10% silt brown-gray, wet mace ingurins, slight petroleum sheen, petroleum odor						
									*** ****	
1			콯	100-180" Pear and Clay			GP-01 (6-8)		07	
				70% organics, 25% clay, 5% salt gray-br	own monst, peat odor					

100							GP-03 (8-10)	60'30	34	
1										
							GP-03 (10-12)	•	08	
							.91.27117.122			
ŀ										
1							GP 03 (12-14)		0.3	
150							GP-03 (14-15)	60.57	0.2	
				180": Bottom of Buring					-	
-									************	
1							····			
1										
00										
N	esteriation	Matana 12-1		GENERAL REMARKS						
7.00		Native Maten Bentomte	LAIS	Soil samples submitted for laborato Headspace screening conducted usi	ry analysis of LPH, VOCs, PCI	Bs. and RCRA	8 Metals from the	8 IU depth in	serval	
~		Sand			of a samulater bright into bit	, camaare to	a roo ppin isoont	yaette staktæd		
		2" PVC Well 2" PVC Well		Bottom of Boring 15' Screen Interval > 15'						
		Denotes appro		Saud 15-15*						
		goundwater e		Bentoute 35.45						

	CC	NECO EN	GINEER	S & SCIENTISTS	GEOPROBE SOIL I	ORING &	MONTTORIN	ig well.	REPORT	
PRO	DIECT	8990			BORING NO	GP 01/CMW-04				
LOX	CATION	944 946 Sar	atoga Sheet	. Boston Massachusetts	PAGE 1 OF	1			-	
DRI	ITTING CO-	New Englan	nd Geotech	Incorporated	DATE STARTED	11/19/2015			-	
EQU	JIPMI-NT	Geoprobe 66	60 truck-mo	unted drilling	DATE FINISHED:	11/19/2015				
DRI	LLED BY	Hayes Reint	oijas		SURFACE ELEVATION	8 feet about N	1SL		-	
INS	PECTED BY	Robert Sheld	don	<u> </u>					-	
1	GROUND	WATER OBS	SERVATIO	DNS				CORE		
	NOT	LNCOUNTER	RED		TYPE	KOD	SAMPLER	BAR		
	DEPTH		BILIZATIO	N TIME	SIZE ID	Geoprobe 1" ID	Marro-cone ?" ID	2 25" OD	-	
	Approx 6	1			PENETRATION	5'	5.	5°	-	
\$1.0017.30 F1.0017.30	The second second second second		(100 a. 1).	SAN SAN	PLEDATA	TOTAL POLICE		10000000000	S. S. Bright Co.	
(fi)	DEPTH	DATA	WATER TAME		THOLOGY tion of materials)		SAMPLE. ID	PFN'	FIED	
00	FROM- TO	 	(ft)				ш	RECOV (in fig.)	SCRFENING (spec)	
u o				0-2": Asphalt Pavement 2-46": Gravelly Sand Fill						
				70% fine sand, 25% subangular gravel, anthropogeme material (birck fragment	5% silt, black, dry, no odor, co	unaminh				
				Contraction of the contract of	.,,		CP-04 (0-2)		0.2	
									20 A 100 A	
				46.62"; Silty Fine Sand Fill 60% fine sand, 35% sult, 5% subangular			GP-04 (2.4)		01	
30	-				Marci, mosti mari no ocol			60.38		
			-	62-102": Silty Gravelly Sand Fill 40% fine sand, 25% subangular gravel, 3	5% sit. 10% authropogenic miti	bas boow) last	CP-04 (4-6)			
			=	brick fragments), brown to black, use, no	odus		GP (H-U)		09	
	· 									
							GP 04 (6-8)		16	
	1									
				102-148": Peat and Clav 70% organics: 25% clay, 5% salt, gray by	own moust pest eday					
100					*************************************	GP 04 (8-10)	60 18	07		
							GP-01 (10 12)		<u>D1</u>	
				148-180" Boston Blue Clay 80% clay 20% fine cand, blue gray dana	aname odor					
				s contrati						
							GP-04 (12 14)		00	
150	 	constants					GP 04 (14-15)	60 39	. 01	
				150": Bettem of Boring						
						1				
200										
		Native Materi Bentonite	uals	GENERAL REMARKS Soil samples submitted for laborator	y analysis of EPH, VOCs, PCI	is and RCRA !	Metals from the	o 8° depth an	etval	
	en a	Saut		Headspace screening conducted usin	ip a MiniRAL Model 3000 PH	ralibrated to	а 100 ррш ьовы	elene standard		
		2" PVC Wen 2" PVC Wen		Bottom of Bonng 15' Screen Interval 3 13						
		Denotes appro	Oxinite	Sand 2.5-15'						
	groundwater elevation Bentonite 15.25									

