### Notice of Intent Application

Massachusetts Wetlands Protection Act (M.G.L. c.131 s.40)

# The Chain Forge Hotel Boston, Massachusetts

Submitted by: CVPA Chain Forge, LLC 451 D Street – Suite 100 Boston, MA 02210

Submitted to:

**Boston Conservation Commission**City of Boston Environment Department
Boston City Hall, Room 805
Boston, MA 02201

Prepared by:
Epsilon Associates, Inc.
3 Mill & Main Place, Suite 250
Maynard, MA 01754

In Association with:

Bargmann Hendrie + Archetype, Inc.

H.W. Moore Associates Inc.



March 7, 2018



### **Notice of Intent Application**

### Massachusetts Wetlands Protection Act (M.G.L. c.131 s.40)

## Chain Forge Hotel Charlestown Navy Yard 105 First Avenue

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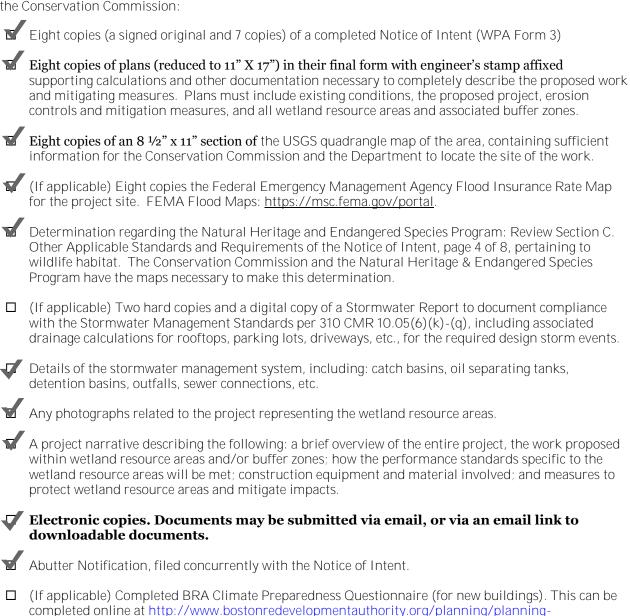
Attachment F - Site Plans/Stormwater Checklist



### **Checklist for Filing a Notice of Intent with Boston Conservation Commission**

In order for the Boston Conservation Commission to effectively process your Notice of Intent, BCC requests that you complete the checklist below and include it with your submission. If you should need assistance please contact Commission staff: 617-635-3850 (cc@boston.gov).

To	tha	Consar	vation	Com	mission:
10	uie	COLISEL	valion	COLL	1111551011.





To minimize the use of non-recyclable materials please do not include vinyl or plastic binders, bindings, folders or covers with the filing. Staples and binder clips are good choices.

initiatives/climate-change-preparedness-and-resiliency. Please print the pdf that you will receive via

email after completion and include it in your submission.

Updated 12/19/17 Pg. 1



# Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Form 3 - Notice of Intent Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

rov	rided by MassDEP:
	MassDEP File Number
	Document Transaction Number
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_	<u> </u>	•			
Α.	A. General Information (continued)				
6.	General Project Description:				
	Limited site improvements associated with factory building redevelopment into a hotel such as sidewalk and curb replacement, landscaping, utility trenching and infiltation system. See Attachment A Project Narrative.				
7a.	Project Type Checklist: (Limited Project Types see	Section A. 7b.)			
	1. Single Family Home	2. Residential Subdivision			
	3. 🛮 Commercial/Industrial	4. Dock/Pier			
	5. Utilities	6. Coastal engineering Structure			
	7. Agriculture (e.g., cranberries, forestry)	8. Transportation			
	9. Other				
7b.	Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?				
	If yes, describe which limited project applies to this project. (See 310 CMR				
	10.24 and 10.53 for a comp	plete list and description of limited project types)			
	2. Limited Project Type				
	If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310				
	CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.				
8.	Property recorded at the Registry of Deeds for:				
	Suffolk				
	a. County 9182	b. Certificate # (if registered land)			
	c. Book	149, 188 d. Page Number			
В.	Buffer Zone & Resource Area Impa	acts (temporary & permanent)			
1.	☐ Buffer Zone Only – Check if the project is locate	,			
2.	<ul> <li>Vegetated Wetland, Inland Bank, or Coastal Resource Area.</li> <li>Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).</li> </ul>				
	y supporting documentation describing how the				

standards requiring consideration of alternative project design or location.

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### B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

3.

Resource Area		Size of Proposed Alteration	Proposed Replacement (if any)		
a. 🗌	Bank	1. linear feet	2. linear feet		
b	Bordering Vegetated Wetland	1. square feet	2. square feet		
c. 🗌	Land Under Waterbodies and Waterways	1. square feet	2. square feet		
		3. cubic yards dredged			
Resour	ce Area	Size of Proposed Alteration	Proposed Replacement (if any)		
d. 🗌	Bordering Land Subject to Flooding	1. square feet	2. square feet		
		3. cubic feet of flood storage lost	4. cubic feet replaced		
e	Isolated Land Subject to Flooding	1. square feet			
		2. cubic feet of flood storage lost	3. cubic feet replaced		
f. 🗌	f. Riverfront Area  1. Name of Waterway (if available) - specify coastal or inland				
2.	2. Width of Riverfront Area (check one):				
	25 ft Designated Densely Developed Areas only				
	☐ 100 ft New agricultu	ral projects only			
	200 ft All other proje	ects			
3. 7	Total area of Riverfront Area	a on the site of the proposed project	. square feet		
4. Proposed alteration of the Riverfront Area:					
a. total square feet between 100 ft. and 200 ft.					
5. Has an alternatives analysis been done and is it attached to this NOI?					
6. \	6. Was the lot where the activity is proposed created prior to August 1, 1996?   Yes  No				
☐ Coastal Resource Areas: (See 310 CMR 10.25-10.35)					

Note: for coastal riverfront areas, please complete Section B.2.f. above.



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### B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users: Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

4.

5.

Resource Area		Size of Proposed Alteration	Proposed Replacement (if any)	
а. 🗌	Designated Port Areas	Indicate size under Land Unde	r the Ocean, below	
b. 🗌	Land Under the Ocean	1. square feet		
	5 . 5 .	2. cubic yards dredged		
с. 🔲	Barrier Beach	Indicate size under Coastal Bea	ches and/or Coastal Dunes below	
d. 🗌	Coastal Beaches	1. square feet	2. cubic yards beach nourishment	
e. 🗌	Coastal Dunes	1. square feet	2. cubic yards dune nourishment	
		Size of Proposed Alteration	Proposed Replacement (if any)	
f. 🗌	Coastal Banks	1. linear feet		
g. 🗌	Rocky Intertidal Shores	1. square feet		
h. 🗌	Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation	
i. 🗌	Land Under Salt Ponds	1. square feet		
		2. cubic yards dredged		
j. 🗌	Land Containing Shellfish	1. square feet		
k. 🗌	Fish Runs	Indicate size under Coastal Ban Ocean, and/or inland Land Under above	ks, inland Bank, Land Under the er Waterbodies and Waterways,	
		1. cubic yards dredged		
I. 🔀	Land Subject to	40,100		
Coastal Storm Flowage		1. square feet		
Restoration/Enhancement If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.				
a. squar	e feet of BVW	b. square feet of S	Salt Marsh	
☐ Project Involves Stream Crossings				
a. numb	er of new stream crossings	b. number of repla	acement stream crossings	



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Ma	assachusetts Wetlands Protection Act M.G	.L. c. 131, §40	Boston City/Town			
C.	Other Applicable Standards and	Requirements	<u> </u>			
	☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Notice of Intent – Required Actions (310 CMR 10.11).					
Str	eamlined Massachusetts Endangered Spec	cies Act/Wetlands	<b>Protection Act Review</b>			
1.	. Is any portion of the proposed project located in <b>Estimated Habitat of Rare Wildlife</b> as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the <i>Massachusetts Natural Heritage Atlas</i> or go to <a href="http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm">http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm</a> .					
	a. Yes No If yes, include proof of a	mailing or hand deli	very of NOI to:			
	Natural Heritage and E Division of Fisheries at 1 Rabbit Hill Road Westborough, MA 015	and Wildlife	Program			
	If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); OR complete Section C.2.f, if applicable. If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).					
	c. Submit Supplemental Information for Endanger	red Species Review*				
	1. Percentage/acreage of property to be	altered:				
	(a) within wetland Resource Area	percentage/acreage				
	(b) outside Resource Area	percentage/acreage				
	2. Assessor's Map or right-of-way plan of	of site				
2.	Project plans for entire project site, including wetlands jurisdiction, showing existing and propositree/vegetation clearing line, and clearly demarca:	sed conditions, existing				
	(a) Project description (including descript	tion of impacts outsid	e of wetland resource area &			

Photographs representative of the site

buffer zone)

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<sup>\*</sup> Some projects not in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

<sup>\*\*</sup> MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



3.

### **Massachusetts Department of Environmental Protection**Bureau of Resource Protection - Wetlands

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### C. Other Applicable Standards and Requirements (cont'd)

Make o	(c) MESA filing fee (fee information available at <a href="http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm">http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm</a> ). Make check payable to "Commonwealth of Massachusetts - NHESP" and <i>mail to NHESP</i> at above address				
Projects	s altering <b>10 or more acres</b> of land, also subn	nit:			
(d)	(d) Vegetation cover type map of site				
(e)	Project plans showing Priority & Estimate	ted Habitat boundaries			
(f) OF	Check One of the Following				
1. 🗌	Project is exempt from MESA review.  Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.1 <a href="http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.ht">http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.ht</a> the NOI must still be sent to NHESP if the project is within estimated habitat pursuant 310 CMR 10.37 and 10.59.)				
2. 🗌	Separate MESA review ongoing.	a. NHESP Tracking #	b. Date submitted to NHESP		
3.	Separate MESA review completed. Include copy of NHESP "no Take" deter Permit with approved plan.	mination or valid Conserv	/ation & Management		
For coastal	projects only, is any portion of the propofish run?	sed project located below	the mean high water		
a.   Not applicable – project is in inland resource area only  b.   Yes  No					
If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:					
South Shore - Cohasset to Rhode Island border, and the Cape & Islands:					
Division of Marine Fisheries - Southeast Marine Fisheries Station Attn: Environmental Reviewer Attn: Environmental Reviewer Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930 Email: DMF.EnvReview-South@state.ma.us  Division of Marine Fisheries - North Shore Office Attn: Environmental Reviewer Gloucester, MA 01930 Email: DMF.EnvReview-North@state.ma.us					

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

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### C. Other Applicable Standards and Requirements (cont'd)

	4.	Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?			
Online Users: Include your document		a.   Yes   No   If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations).   Note: electronic filers click on Website.			
transaction number		b. ACEC			
(provided on your receipt page) with all	5.	Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?			
supplementary		a. 🗌 Yes 🖾 No			
information you submit to the Department.	6.	Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)			
		a. 🗌 Yes 🗵 No			
	7.	Is this project subject to provisions of the MassDEP Stormwater Management Standards?			
		<ul> <li>Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:</li> <li>Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)</li> </ul>			
		2. A portion of the site constitutes redevelopment			
		3. Proprietary BMPs are included in the Stormwater Management System.			
		b. No. Check why the project is exempt:			
		1. Single-family house			
		2. Emergency road repair			
		3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.			
	D.	Additional Information			
		This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).			
		Applicants must include the following with this Notice of Intent (NOI). See instructions for details.			
		<b>Online Users:</b> Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.			
		1. Substituting Sufficient information for the Conservation Commission and the Department to locate the site (Electronic filers may omit this item.)			

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to the boundaries of each affected resource area.

Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative

2.



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D.	Additional	<b>Information</b>	(cont'd)	
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D.	Add	itional Information (cont'd)	·	
	3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.			
	4. 🛛	List the titles and dates for all plans and ot	her materials submitted with this NOI.	
		ain Forge Hotel		
		lan Title		
	H.\	V. Moore Associates, Inc.	TBD	
		repared By	c. Signed and Stamped by	
		rch 6, 2018	1"=20'	
	d. F	inal Revision Date	e. Scale	
	f. A	dditional Plan or Document Title	g. Date	
	5. If there is more than one property owner, please attach a list of these property owners not listed on this form.			
	6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.			
	<ul> <li>7.  Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.</li> <li>8.  Attach NOI Wetland Fee Transmittal Form</li> </ul>			
	9. Attach Stormwater Report, if needed.			
E.	Fees			
	<ol> <li>Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or dis of the Commonwealth, federally recognized Indian tribe housing authority, municipal hor authority, or the Massachusetts Bay Transportation Authority.</li> </ol>			
	Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:			
36279 3/6/18				
		pal Check Number	3. Check date	
	36278		3/6/18	
4. State Check Number 5. Check date				
	Epsilor	Associates, Inc.		
		name on check: First Name	7. Payor name on check: Last Name	

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### F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

Ruha a Sel	3/6/18
Signature of Applicant	2. Date
3. Signature of Property Owner (if different)	4. Date 3/6/18
5. Signature of Representative (if any)	6. Date

#### For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

#### For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

#### Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

### Attachment A

Project Narrative

### ATTACHMENT A – PROJECT NARRATIVE

#### 1.0 Introduction

On behalf of CVPA Chain Forge LLC ("Applicant"), Epsilon Associates, Inc. ("Epsilon") is pleased to submit this Notice of Intent (NOI) to the Boston Conservation Commission (the "Commission"). This NOI has been prepared in accordance with the Massachusetts Wetlands Protection Act (MGL c. 131 §40 (the "Act") and implementing Regulations (310 CMR 10.00) (the "Regulations").

The work described herein involves redevelopment activities at the historic Chain Forge Building located at 105 First Avenue in Charlestown, Massachusetts (the "Project"). The Applicant proposes to redevelop the former factory building into a 230-room hotel. A portion of the proposed redevelopment activities involves work within the 100-year floodplain (Land Subject to Coastal Storm Flowage) under the Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00). This NOI has been prepared and submitted in accordance with these regulations, and requests approval to construct the Project within locations subject to the jurisdiction of the Boston Conservation Commission.

#### 2.0 Existing Conditions

The Project Site is comprised of an approximately 1.5-acre parcel of land located at 105 First Avenue within the Charlestown Navy Yard. The site is bounded by Ninth Street to the south, Thirteenth Street to the north, Second Avenue pedestrian walkway to the west and First Avenue to the east (see Figure 1– USGS Locus Map and Figure 2 - Aerial Locus Map in Attachment B). The existing Chain Forge Factory building is essentially three connected buildings totally 63,000 gross square feet. The brick-façade factory building was originally built in 1904 and has been vacant since the 1974 closure of the Boston Naval Shipyward and was conveyed to the Boston Redevelopment Authority in 1978. The site is entirely comprised of either building or paved areas.

The Site is located approximately 600 feet from Boston Harbor. Wetland resource areas on or proximate to the Project site are limited to Land Subject to Coastal Storm Flowage (elevation 10-feet NAVD 88 datum). No other resource areas are present (see Figure 3 – Coastal Resources Map in Attachment B and in Attachment F – Plan Drawings).

See below for additional information and also Attachment C for photos of existing site conditions.

#### 2.1 Land Subject to Coastal Storm Flowage

Land Subject to Coastal Storm Flowage (LSCSF) is defined at 310 CMR 10.04 as land subject to any inundation caused by coastal storms up to and including that caused by the 100-year storm, surge of record or storm of record, whichever is greater. According to the updated Federal Emergency Management Agency Flood Insurance Rate Map

("FEMA-FIRM"), Community-Panel Numbers 25025C0018J and 25025C0081J, Effective Date March 16, 2016, there is a small area of the site designated as "Zone AE Area of 100-Year Flood" (Elevation 10 feet NAVD 88, 16.46 feet Boston City Base) within the southeast corner of the Project Site. An updated site survey indicates that the majority of the surrounding streets and sidewalks do fall within Zone AE. See Figure 4 in Attachment B and Attachment F for more information.

### 2.2 Natural Heritage and Endangered Species Program Atlas

No portion of the Project Site is located within areas mapped as Priority Habitat of Rare Species and Estimated Habitat of Rare Wildlife by the Natural Heritage and Endangered Species Program under the Massachusetts Endangered Species Act and the Massachusetts Wetlands Protection Act, respectively (Natural Heritage MassGIS, 2017). There are no mapped Potential Vernal Pools or Certified Vernal Pools within or proximate to the Project Site (See Figure 5 – NHESP Map in Attachment B).

### 3.0 Proposed Project

This Project proposes the redevelopment of the former Chain Forge factory building into a 230-room hotel. The hotel entrance will be along First Avenue with a rear service area and access along Second Avenue. The ground floor of the hotel will be raised 18-inches over existing conditions, resulting in a ground floor that is above the flood zone at Elevation 10 feet NAVD 88 or 16.46 feet BCB. While the majority of the proposed Project involves interior building construction and modifications, some exterior work will also be completed along the façade and surrounding paved areas. This includes sidewalk and curb replacement, site utility work, re-pointing of the building façade, landscaping, re-paving and installation of new windows. There will be no increase in impervious surface at the Project site.

Site utility work consists of trenches for sewer line connections and new manholes. The proposed subsurface stormwater management infiltration system will also be installed proximate to the rear service entrance along the Second Avenue walkway. Also proximate to the rear service entrance, a new switch and transformer will be installed on concrete pads elevated out of the flood zone at elevation 17.5 feet Boston City Base).

#### 3.1 Proposed Stormwater Management

The proposed stormwater management system will designed to comply with Boston Water and Sewer Commission ("BWSC") requirements and the MassDEP stormwater management standards that were incorporated into the Wetlands Protection Act Regulations on January 2, 2008 [see 310 CMR 10.05(6)(k)]. Since the existing site already consists entirely of impervious cover, the proposed Project will not create additional impervious surface areas. However, the Project will reduce the amount of runoff from the site by 2,840 cubic feet during storm events.

Stormwater from the site, including roof drainage, currently discharges to the existing systems in the adjacent streets: a 12-inch drain in Ninth Street, a 36-inch drain in Second Avenue, and a 48-inch drain in First Avenue. These drains flow easterly toward Thirteenth Street and ultimately to Boston Harbor.

A portion of the rooftop runoff will be directed to a subsurface infiltration system installed at the rear of the building. This system will accommodate up to 2,840 cubic feet of volume and redirect it from entering Boston's stormwater management drain system. Any overflow will be directed to the municipal drain system. The post-redevelopment conditions will result in a reduction of site runoff. Please see Attachment F for the Site Plans and Stormwater Checklist.

#### 4.0 Environmental Mitigation, Compliance and Monitoring

Ground disturbing activities are primarily limited to trenchwork, landscaping and the installation of the subsurface stormwater infiltration system. An erosion and sediment control program will minimize the risk of impacts to wetland resource areas associated with the Boston Harbor during construction of the Project. The program will incorporate BMPs specified in the guidelines developed by the MassDEP and the U.S. Environmental Protection Agency ("EPA"). The Stormwater Pollution Prevention Plan ("SWPPP") will be finalized prior to construction.

The site contractor will be responsible for inspecting the sediment and erosion controls on a regular basis to note any escape of sediments. Inspections will cover disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, structural control measures, and locations where vehicles enter or exit the site.

#### 4.1 Sedimentation and Erosion Controls

Erosion and sediment control measures proposed for site preparation and development phases will include the following components:

#### Catch Basin Inlet Protection

During construction, drain inlets along First Avenue, Second Avenue, Thirteenth Street and Ninth Street will be protected from sediment inflow through the installation of "silt sacks". The catch basins will be inspected after each rainfall with any significant accumulations of silt or sediment being removed and properly disposed.

#### Sediment Track-Out

The adjacent roadways surrounding the project site will be swept regularly of sediment tracked onto roadways to reduce potential total suspended solids ("TSS") loading generated by construction vehicles traveling to and from the project site.

#### Soil Management

Prior to construction, the contractor shall identify locations for soil stockpiles on-site for approval by the responsible engineer. Stockpiles that will be left for more than 14 days shall be protected by a perimeter of erosion controls (e.g. straw wattles) at the down gradient end and also will be covered by a plastic covering, temporary seeding, or equivalent BMP. Other areas of exposed soil will also be mulched or seeded within 7 days of grading if area will not be actively worked for greater than 14 days.

#### **Dust Control**

Dust control will be implemented as needed and during windy conditions (forecasted or actual wind conditions of 20 mph or greater) while excavation work is occurring.

#### Siltation Barriers

Siltation barriers composed of staked straw wattles may be necessary during trench work and infiltration system installation. All barriers will remain in place until disturbed areas are stabilized. An adequate stockpile of erosion control materials will be onsite at all times for emergency or routine replacement.

#### 4.2 Dewatering Protocols

Although not anticipated due to depth of construction activities, should the need for dewatering arise during construction of the Project, groundwater will be pumped directly from the work area into portable fractionation tanks prior to discharge into the catch basin system. All discharges shall be free from visible floating, suspended and settleable solids that would impair the functions of a wetland resource area or degrade the chemical composition of the wetland resource area and the Boston Harbor receiving said water.

### 4.3 Spill Prevention and Response Plan

During construction, the contractor will follow these procedures to prevent and manage spills, if necessary:

- Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- ◆ The Contractor shall provide a 55 gallon spill containment kit and maintain it onsite throughout the construction period.
- All spills will be cleaned up immediately after discovery.
- ◆ The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.

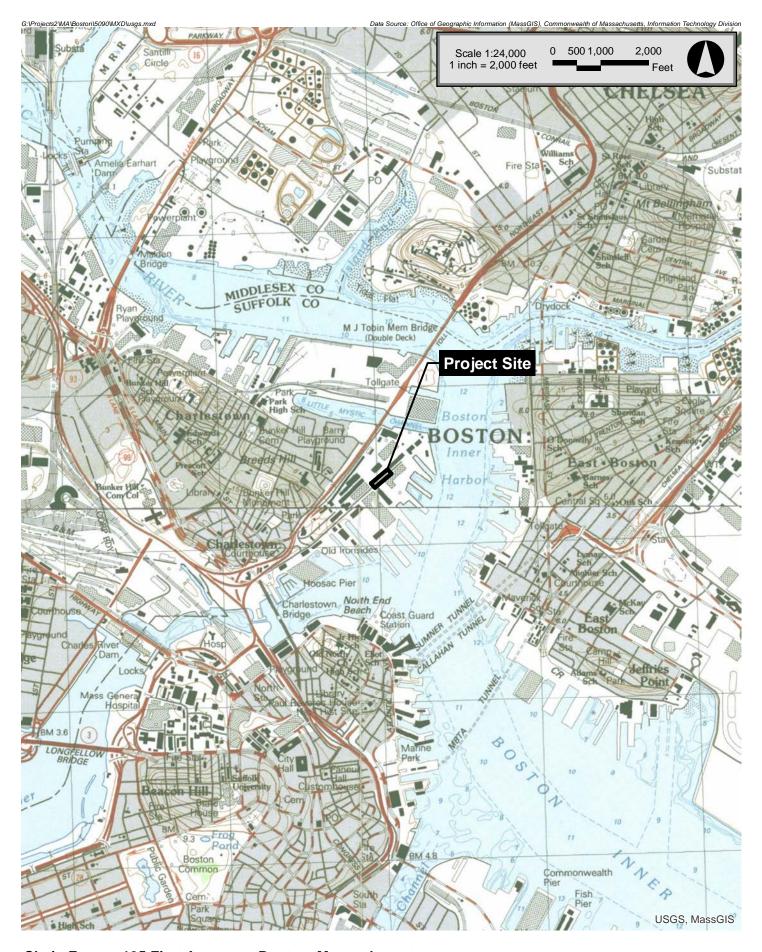
- Spills of toxic or hazardous materials, at or greater than reportable quantities, will be reported to the appropriate state or local government agency.
- The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included.
- ◆ The Site Superintendent is the designated responsible party for day to day operations and spill clean-up procedures.

#### 5.0 Conclusions

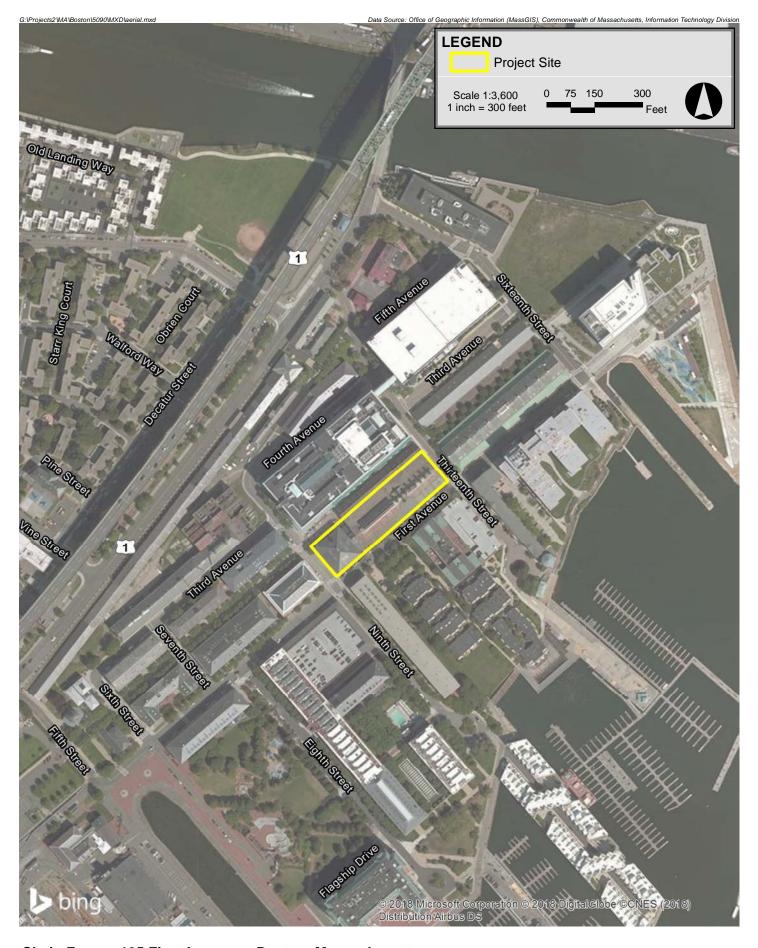
The information contained in this NOI describes the wetland resource areas located in the project area, the proposed construction activities and the effect of said work on the resource areas, and demonstrates that the work can be completed in accordance with the applicable performance standards for the affected resource areas. The Applicant therefore respectfully requests that the Boston Conservation Commission issue an Order of Conditions approving the project with appropriate conditions to protect the interests identified in M.G.L. c. 131 §40.

### Attachment B

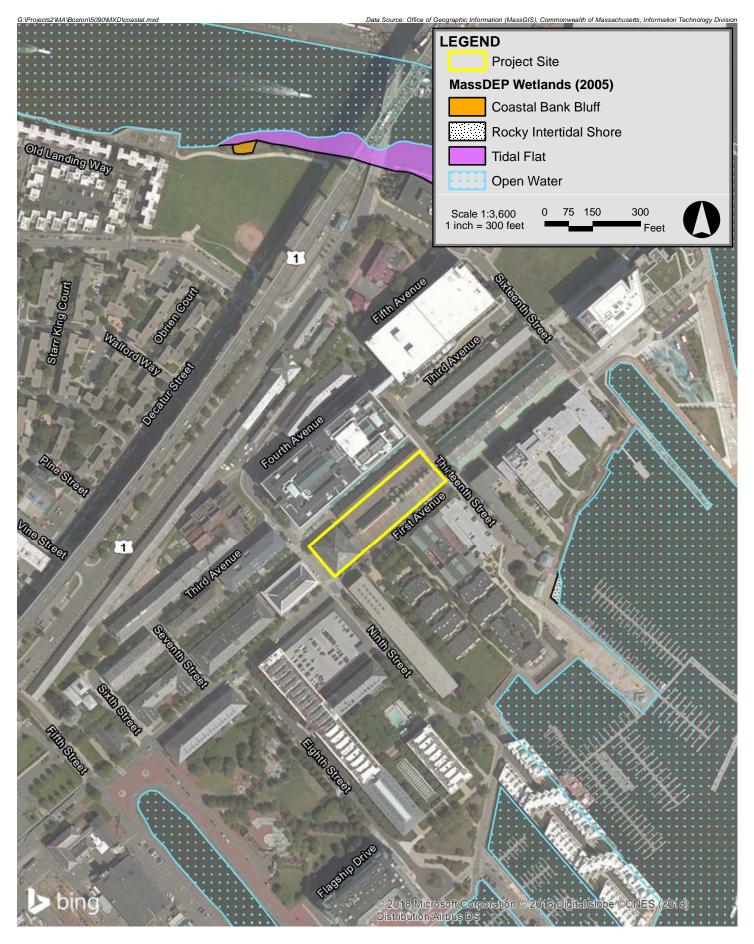
Figures



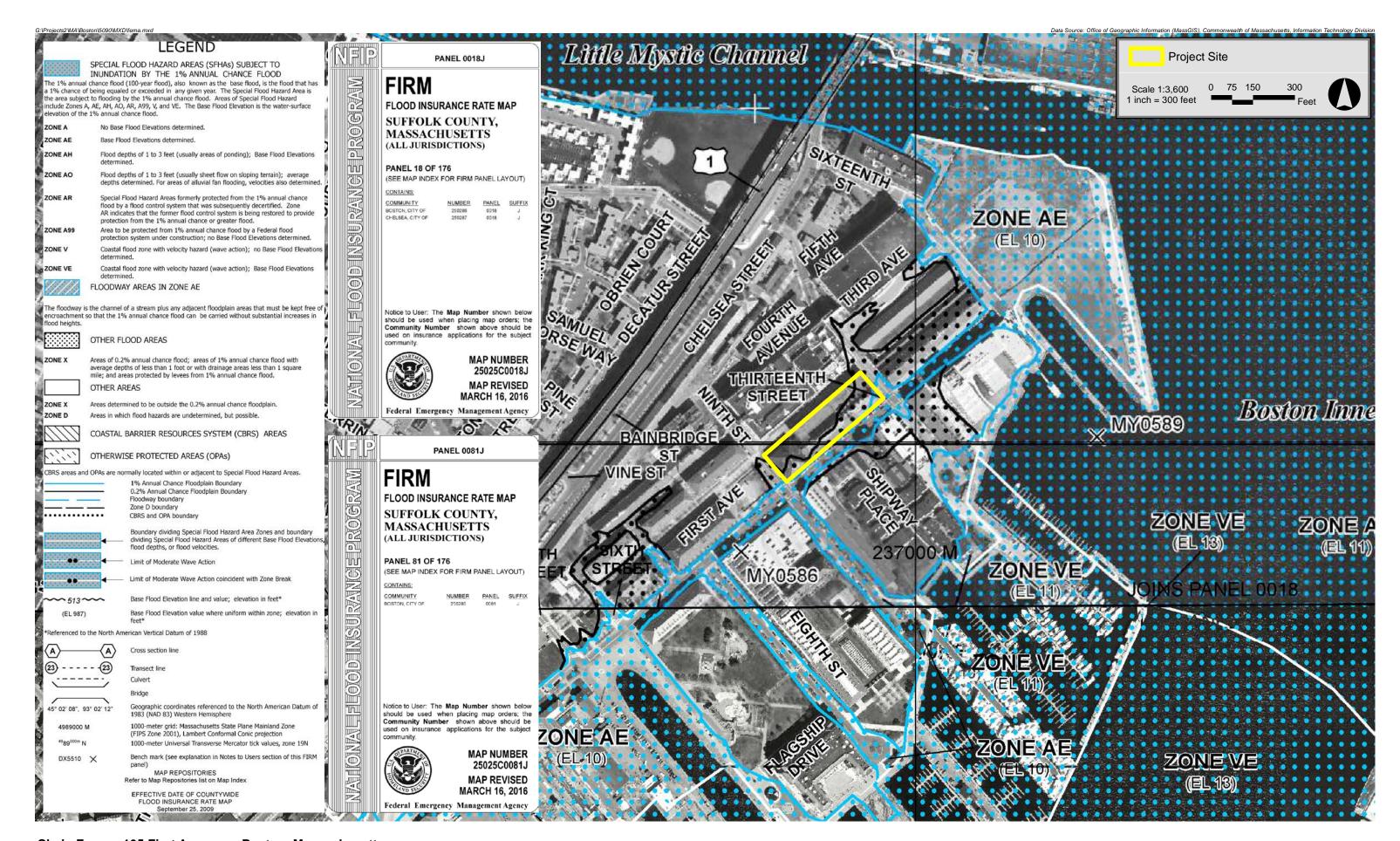




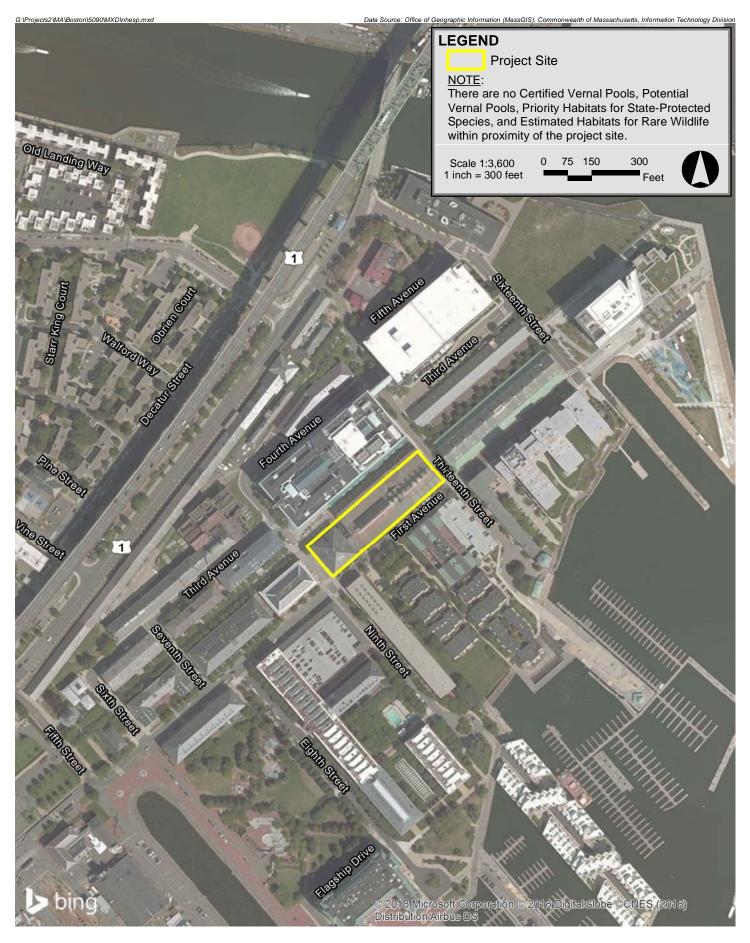














### Attachment C

Site Photographs



**Photo 1:** View facing west from the intersection of 1<sup>st</sup> Avenue and 13<sup>th</sup> Street.



Photo 2: View facing north west from 1st Avenue.

105 First Avenue, Boston, MA





**Photo 3:** View facing north from the intersection of 1<sup>st</sup> Avenue and 9<sup>th</sup> Street.



Photo 4: View facing northeast from 1st Avenue.

105 First Avenue, Boston, MA



### Attachment D

Filing Fee Information



### **Massachusetts Department of Environmental Protection**

Bureau of Resource Protection - Wetlands

### **NOI Wetland Fee Transmittal Form**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

#### Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





A. Applicant	Information		
Location of Pro	oject:		
105 First Aven	ue	Boston	
a. Street Address	<del></del>	b. City/Town	
36278		\$237.50	
c. Check number		d. Fee amount	
2. Applicant Maili	ng Address:		
Richard		Galvin	
a. First Name		b. Last Name	
CVPA Chain F	orge LLC		
c. Organization			
451 D Street -	Suite 100		
d. Mailing Address			
Boston		MA	02110
e. City/Town		f. State	g. Zip Code
(857) 990-3040	0 x101	rgalvin@cvprop.com	
h. Phone Number	i. Fax Number	j. Email Address	
3. Property Owne	er (if different):		
Ed		O'Donnell	
a. First Name		b. Last Name	
Boston Redeve	elopment Authority		
c. Organization			
1 City Hall, 9th	Floor		
d. Mailing Address			
Boston		MA	02201
e. City/Town		f. State	g. Zip Code
617) 918-6225		Ed.O'Donnell@boston.gov	/
h. Phone Number	i. Fax Number	j. Email Address	

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

#### B. Fees

Fee should be calculated using the following process & worksheet. *Please see Instructions before filling out worksheet.* 

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

**Step 4/Subtotal Activity Fee:** Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

**Step 6/Fee Payments:** To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.



### **Massachusetts Department of Environmental Protection**

Bureau of Resource Protection - Wetlands

### **NOI Wetland Fee Transmittal Form**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Fees (continued)			
Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Cat 2J Limited work in LSCSF	1	500	\$500
			-
	Step 5/T	otal Project Fee:	
	Step 6	/Fee Payments:	
	Total	Project Fee:	\$500.00 a. Total Fee from Step 5
	State share	of filing Fee:	\$237.50 b. 1/2 Total Fee <b>less \$</b> 12.50
	City/Town shar	e of filling Fee:	\$1500.00 (Local fee) c. 1/2 Total Fee <b>plus</b> \$12.50

### C. Submittal Requirements

a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection Box 4062 Boston, MA 02211

b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

**To MassDEP Regional Office** (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

EPSILON ASSOCIATES, INC.
3 MIEUR MAIN PLAGE
STE 280
MAYNARD, MA 01754

Y TO THE \$: \*\*237.50 Commonwealth of Massachusetts Two Hundred Thirty-Seven and 50/100\* **DOLLARS** ommónwealth of Massachusetts

#O36278# #211371227# BO0205855#

EPSILON: ASSOCIATES: INC

MAYNARD MA 01754

Middlesex Savings Bank

/6/2018

W. O. C.

PAY TO THE ORDER OF City of Boston

One Thousand Five Hundred and 00/100

City of Boston

#O36279# #2211371227# 800205855#

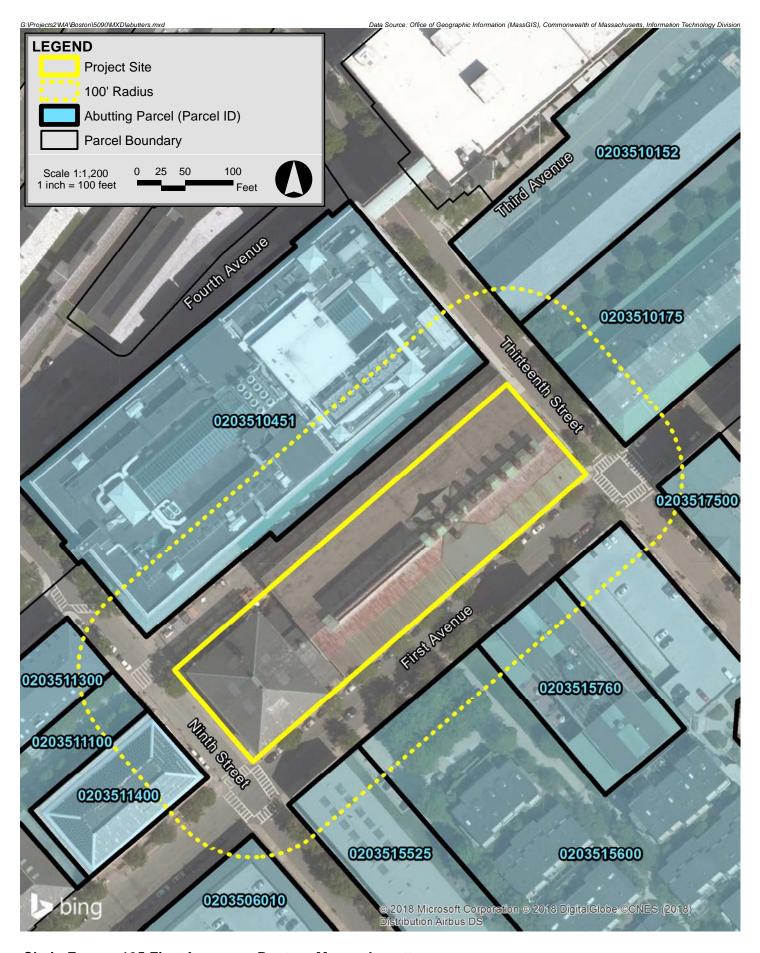
**DOLLARS** 

36279

76V 0404/

### Attachment E

Abutter Notification Information



Chain Forge - 105 First Avenue

**Boston, Massachusetts** 



### NOTIFICATION TO ABUTTERS UNDER THE MASSACHUSETTS WETLAND PROTECTION ACT

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following:

- A. The name of the applicant is **XX**.
- B. The applicant has filed a Notice of Intent application with the Boston Conservation Commission seeking an Order of Conditions which authorizes XXX subject to jurisdiction under the Massachusetts Wetlands Protection Act (General Laws Chapter 131, Section 40). Project activities will impact Land Subject to Coastal Storm Flowage.
- C. The address of the lot where the activity is proposed is 105 First Avenue.
- D. Copies of the NOI and site plans may be examined or obtained for a fee from either the:
  - Copies of the Notice of Intent may be examined at the Copies of the NOI and site plans may be examined at the Boston Conservation Commission office located at City Hall, Room 709 Monday through Friday 8:30 am to 5:30 pm. Please call for an appointment (617-635-3850). Please leave a message on the voice mail if no one is available to answer the phone. Copy fees may be applicable.
  - Copies of the NOI and site plans may be obtained from the applicant's representative, Epsilon Associates, Inc, by calling 978-897-7100 between the hours of 9:00 a.m. and 5:00 p.m., Monday through Friday.
- E. Information regarding the time, date and place of the public hearing may also be obtained from the Boston Conservation Commission by calling 617-635-3850 Monday through Friday 8:30 am to 5:30 pm. It is anticipated that a public hearing will be held on March 21, 2018 but please contact the Conservation Commission to confirm the meeting date, time and location.

NOTE: Notice of the public hearing, including its date, time and place, will be published at least five (5) days in advance in the **Boston Herald.** 

NOTE: Notice of the public hearing, including its date, time and place, will be posted in City Hall at least forty-eight (48) hours in advance.

NOTE: You also may contact the Conservation Commission or the Northeast Regional Department of Environmental Protection for more information about this application or the Wetlands Protection Act. To contact the Northeast Regional Department of Environmental Protection Office, call (978) 694-3200.

PID_LONG	YEAR	PID	<b>ZIPCODE</b>	LU
0203506010	2017	0203506010	02129	Condominium main
0203510152	2017	0203510152	02129	Tax-exempt
0203510175	2017	0203510175	02129	Condominium main
0203510451	2017	0203510451	02129	Tax-exempt
0203511100	2017	0203511100	02129	Tax-exempt
0203511300	2017	0203511300	02129	Tax-exempt
0203511400	2017	0203511400	02129	Condominium main
0203515525	2017	0203515525	02129	Residential 7 or more units
0203515600	2017	0203515600	02129	Condominium main
0203515760	2017	0203515760	02129	Residential 7 or more units
0203517500	2017	0203517500	02129	Condominium main

OWNER	AV_LAND	AV_BLDG	AV_TOTAL	GROSS_TAX	LAND_SF
THE PARRIS LANDING COND TRST	0	0	0	0.00000000000	230251
BOSTON REDEVELOPMENT AUTH	3136700	0	3136700	0.00000000000	52078
BASILICA LEASEHOLD	0	0	0	0.00000000000	93542
CONSTITUTION OFFICE PARK LE	39788700	152796300	192585000	0.00000000000	99974
BOSTON REDEVELOPMENT AUTH	1736000	0	1736000	0.00000000000	25688
YMCA OF GREATER BOSTON INC	4047800	3954200	8002000	0.00000000000	14762
STARBOARD LEASEHOLD	0	0	0	0.00000000000	15362
BUILDING 103 ASSOC LP	6701000	11239000	17940000	189984.60000000000	45474
SHIPWAYS CONDOMINIUM ASSN	0	0	0	0.00000000000	143926
BRICKLAYERS BUILDING 104 LLC	2014500	1365000	3379500	35838.91000000000	23289
CHARLESTOWN NAVY YARD	0	0	0	0.00000000000	28820

### LIVING\_ARE GIS\_ID FULL\_ADDRE

0 0203506010 42 EIGHTH ST, 02129

0 0203510152 75 THIRTEENTH ST, 02129

0 0203510175 SIXTEENTH ST, 02129

704270 0203510451 THIRTEENTH ST, 02129

0 0203511100 SEVENTH ST, 02129

106000 0203511300 150 THIRD AV, 02129

0 0203511400 45 FIRST ST, 02129

81000 0203515525 NINTH ST, 02129

0 0203515600 FIRST AV, 02129

59849 0203515760 FIRST AV, 02129

0 0203517500 77 A-103 THIRTEENTH ST, 02129

### Affidavit of Service Under The Massachusetts Wetlands Protection Act

I, Alyssa Jacobs, hereby certify under the pains and penalties of perjury that on March 7, 2018, Epsilon Associates, Inc. gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, the DEP Guide to Abutter Notification dated April 8, 1994 in connection with the following matter:

A Notice of Intent application was filed under the Massachusetts Wetland Protection Act by Chain Forge LLC on March 7, 2018 for property located at **105 First Avenue** in Boston, MA.

The form of notification, and a list of the abutters to whom it was given and their addresses are attached to this Affidavit of Service.

Alyssa Jacobs, PWS

Alyra Jacobs

Senior Consultant

March 7, 2018

DATE

# Attachment F

Site Plans and Stormwater Checklist Form



Bureau of Resource Protection - Wetlands Program

# **Checklist for Stormwater Report**

### A. Introduction

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the Massachusetts Stormwater Handbook. The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals. This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8<sup>2</sup>
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

<sup>&</sup>lt;sup>1</sup> The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

<sup>&</sup>lt;sup>2</sup> For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.



Bureau of Resource Protection - Wetlands Program

# **Checklist for Stormwater Report**

### **B. Stormwater Checklist and Certification**

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

*Note:* Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

### **Registered Professional Engineer's Certification**

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Stormwater Report accurately reflects conditions at the site as of the date of this permit application.
Registered Professional Engineer Block and Signature
Signature and Date
Checklist
<b>Project Type:</b> Is the application for new development, redevelopment, or a mix of new and redevelopment?
☐ New development
□ Redevelopment
☐ Mix of New Development and Redevelopment



Bureau of Resource Protection - Wetlands Program

# **Checklist for Stormwater Report**

### Checklist (continued)

**LID Measures:** Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

$\boxtimes$	No disturbance to any Wetland Resource Areas
	Site Design Practices (e.g. clustered development, reduced frontage setbacks)
$\boxtimes$	Reduced Impervious Area (Redevelopment Only)
	Minimizing disturbance to existing trees and shrubs
	LID Site Design Credit Requested:
	☐ Credit 1
	☐ Credit 2
	☐ Credit 3
	Use of "country drainage" versus curb and gutter conveyance and pipe
	Bioretention Cells (includes Rain Gardens)
	Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
	Treebox Filter
	Water Quality Swale
	Grass Channel
	Green Roof
	Other (describe):
Sta	ndard 1: No New Untreated Discharges
	No new untreated discharges
	Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
	Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.



# **Checklist for Stormwater Report**

Checklist (continued)

Sta	ndard 2: Peak Rate Attenuation
	Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.  Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour
_	storm.
	Calculations provided to show that post-development peak discharge rates do not exceed pre- development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24- hour storm.
Sta	ndard 3: Recharge
$\boxtimes$	Soil Analysis provided.
	Required Recharge Volume calculation provided.
	Required Recharge volume reduced through use of the LID site Design Credits.
	Sizing the infiltration, BMPs is based on the following method: Check the method used.
	☐ Static ☐ Simple Dynamic ☐ Dynamic Field <sup>1</sup>
	Runoff from all impervious areas at the site discharging to the infiltration BMP.
	Runoff from all impervious areas at the site is <i>not</i> discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.
	Recharge BMPs have been sized to infiltrate the Required Recharge Volume.
	Recharge BMPs have been sized to infiltrate the Required Recharge Volume <i>only</i> to the maximum extent practicable for the following reason:
	☐ Site is comprised solely of C and D soils and/or bedrock at the land surface
	☐ M.G.L. c. 21E sites pursuant to 310 CMR 40.0000
	☐ Solid Waste Landfill pursuant to 310 CMR 19.000
	Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.
	Calculations showing that the infiltration BMPs will drain in 72 hours are provided.
	Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

<sup>&</sup>lt;sup>1</sup> 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.



# **Checklist for Stormwater Report**

Cł	necklist (continued)
Sta	andard 3: Recharge (continued)
	The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
	Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.
Sta	ndard 4: Water Quality
The	e Long-Term Pollution Prevention Plan typically includes the following: Good housekeeping practices; Provisions for storing materials and waste products inside or under cover; Vehicle washing controls; Requirements for routine inspections and maintenance of stormwater BMPs; Spill prevention and response plans; Provisions for maintenance of lawns, gardens, and other landscaped areas; Requirements for storage and use of fertilizers, herbicides, and pesticides; Pet waste management provisions; Provisions for operation and management of septic systems; Provisions for solid waste management; Snow disposal and plowing plans relative to Wetland Resource Areas; Winter Road Salt and/or Sand Use and Storage restrictions; Street sweeping schedules; Provisions for prevention of illicit discharges to the stormwater management system; Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL; Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan; List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.
	A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.  Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:
	is within the Zone II or Interim Wellhead Protection Area
	is near or to other critical areas
	is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
	involves runoff from land uses with higher potential pollutant loads.
	The Required Water Quality Volume is reduced through use of the LID site Design Credits

☐ Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if

applicable, the 44% TSS removal pretreatment requirement, are provided.



# **Checklist for Stormwater Report**

Cł	necklist (continued)
Sta	ndard 4: Water Quality (continued)
	The BMP is sized (and calculations provided) based on:
	☐ The ½" or 1" Water Quality Volume or
	☐ The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.
	The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.
	A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.
Sta	ndard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)
	The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.  The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted <i>prior to</i> the discharge of stormwater to the post-construction stormwater BMPs.
	The NPDES Multi-Sector General Permit does <i>not</i> cover the land use.
	LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.
	All exposure has been eliminated.
	All exposure has <i>not</i> been eliminated and all BMPs selected are on MassDEP LUHPPL list.
	The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.
Sta	ndard 6: Critical Areas
	The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.
	Critical areas and BMPs are identified in the Stormwater Report.



Bureau of Resource Protection - Wetlands Program

# **Checklist for Stormwater Report**

### Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

	project is subject to the Stormwater Management Standards only to the maximum Extent cticable as a:
	Limited Project
	Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.  Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area  Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
	Bike Path and/or Foot Path
$\boxtimes$	Redevelopment Project
	Redevelopment portion of mix of new and redevelopment.
	tain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an lanation of why these standards are not met is contained in the Stormwater Report.
imp in V the and	e project involves redevelopment and a description of all measures that have been taken to rove existing conditions is provided in the Stormwater Report. The redevelopment checklist found folume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) roves existing conditions.

### Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
- Construction Period Operation and Maintenance Plan;
- Names of Persons or Entity Responsible for Plan Compliance;
- Construction Period Pollution Prevention Measures:
- Erosion and Sedimentation Control Plan Drawings;
- Detail drawings and specifications for erosion control BMPs, including sizing calculations;
- Vegetation Planning;
- Site Development Plan;
- Construction Sequencing Plan;
- Sequencing of Erosion and Sedimentation Controls;
- Operation and Maintenance of Erosion and Sedimentation Controls;
- Inspection Schedule;
- Maintenance Schedule;
- Inspection and Maintenance Log Form.
- A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.



# **Checklist for Stormwater Report**

Checklist (continued)

	andard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control ntinued)
	The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has <i>not</i> been included in the Stormwater Report but will be submitted <i>before</i> land disturbance begins.
	The project is <i>not</i> covered by a NPDES Construction General Permit.
	The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.
	The project is covered by a NPDES Construction General Permit but no SWPPP been submitted.  The SWPPP will be submitted BEFORE land disturbance begins.
Sta	andard 9: Operation and Maintenance Plan
	The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:
	Name of the stormwater management system owners;
	□ Party responsible for operation and maintenance;
	Schedule for implementation of routine and non-routine maintenance tasks;
	☐ Plan showing the location of all stormwater BMPs maintenance access areas;
	☐ Description and delineation of public safety features;
	☐ Estimated operation and maintenance budget; and
	○ Operation and Maintenance Log Form.
	The responsible party is <b>not</b> the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:
	A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
	A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.
Sta	andard 10: Prohibition of Illicit Discharges
	The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;
$\boxtimes$	An Illicit Discharge Compliance Statement is attached;
	NO Illicit Discharge Compliance Statement is attached but will be submitted <i>prior to</i> the discharge of any stormwater to post-construction BMPs.

# THE CHAIN FORGE HOTEL CHARLESTOWN, MA

# **CONSERVATION COMMISSION FILING:**

EXISTING CONDITIONS PLAN (GEOD - Preliminary 10/02/2014)
ALTA/NSPS LAND TITLE SURVEY (Feldman - Draft 02/22/2018)
C100-UTILITY SITE PLAN-3845-S6
C101-SITE LAYOUT PLAN-3845-S6
C102-SEWER PROFILES
C103-SITE DETAILS PLAN
C104-SITE DETAILS PLAN



ARCHITECT

bhla

Bargmann Hendrie + Archetype, Inc. 300 A Street Boston, MA 02210 617 350-0450 Tel

PROJECT NAME

# The Chain Forge Hotel

105 First Avenue Charlestown, MA 02109

LIENT

Boston MA 02210

# **CV Properties**

451 D Street

PROJECT TEAM

MEP/FP Engineer

AHA Consulting Engineers 24 Hartwell Avenue, 3rd Floor

(781) 372-3000

Structural Engineer
McNamara Salvia

Lexington, MA 02421

101 Federal Street, 11th Floor Boston, MA 02110 (617) 737-0040

HW Moore Associates, Inc. 112 Shawmut Ave, Boston, MA 02118 (617) 357-8145

Landscape Engineer
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Boston, MA 02108
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REVISIONS

2

Cover Sheet

DRAWING INFORMATION

March 6, 2018

NATE OF ISSUE

DATE OF ISSUE

Conservation Commission

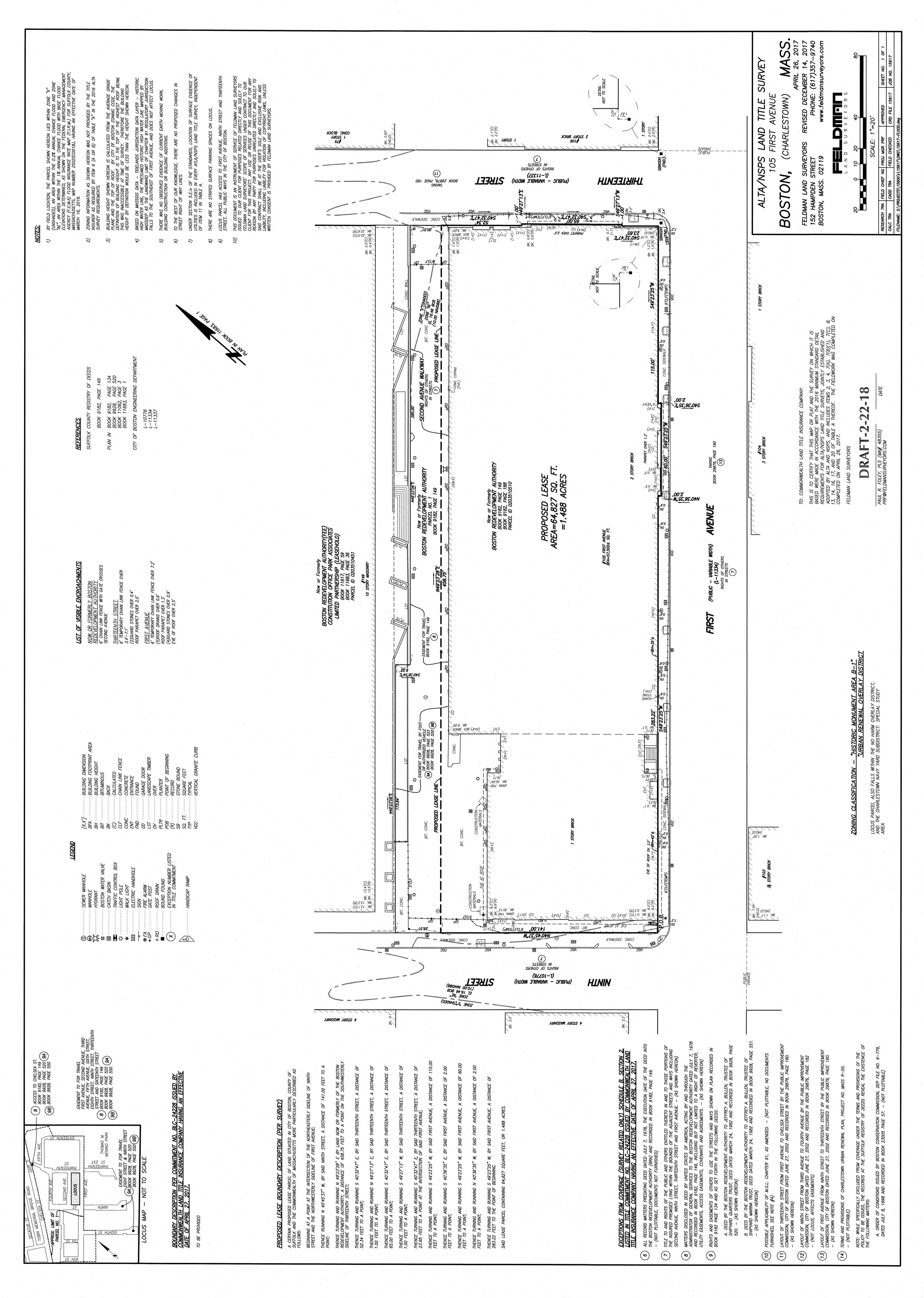
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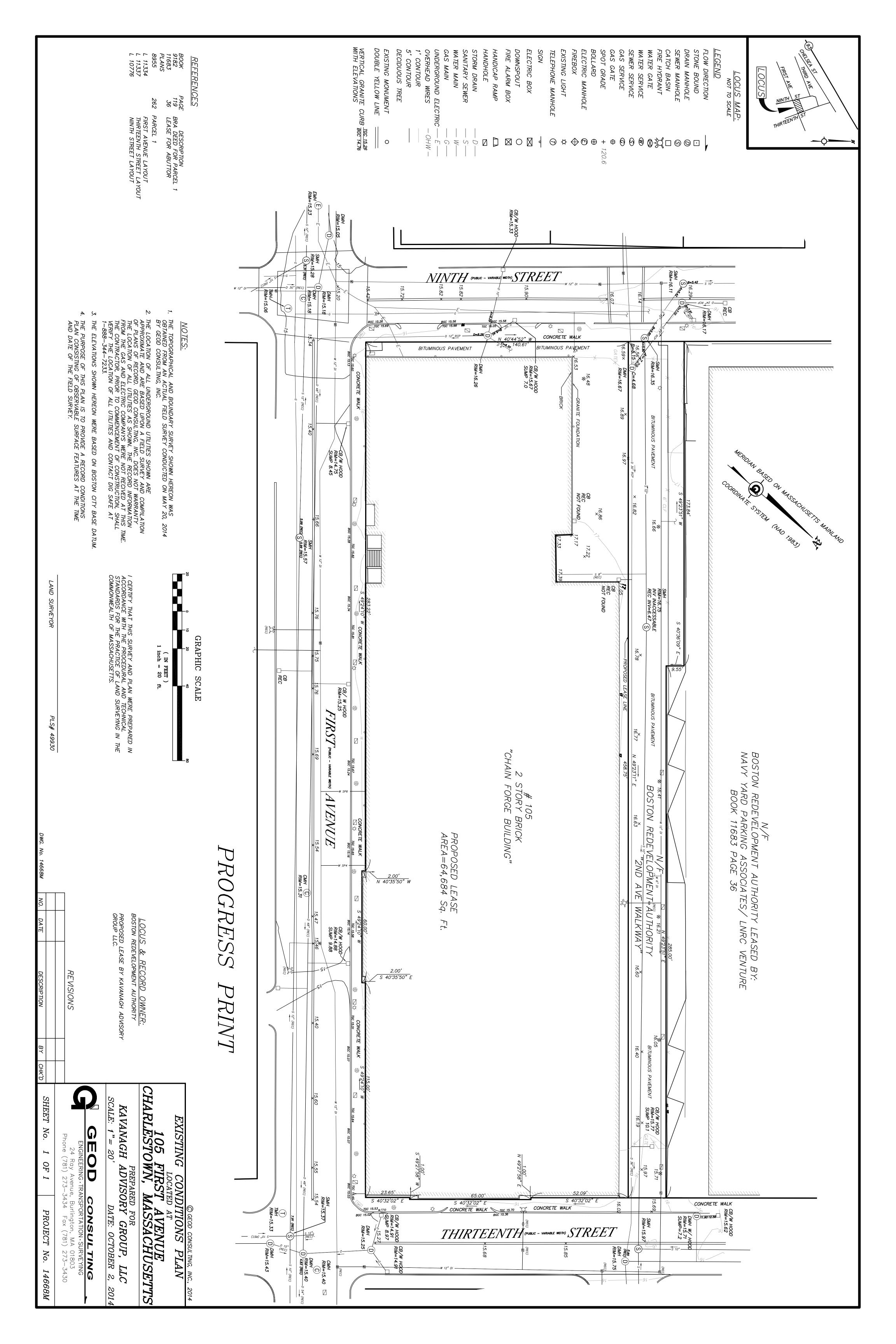
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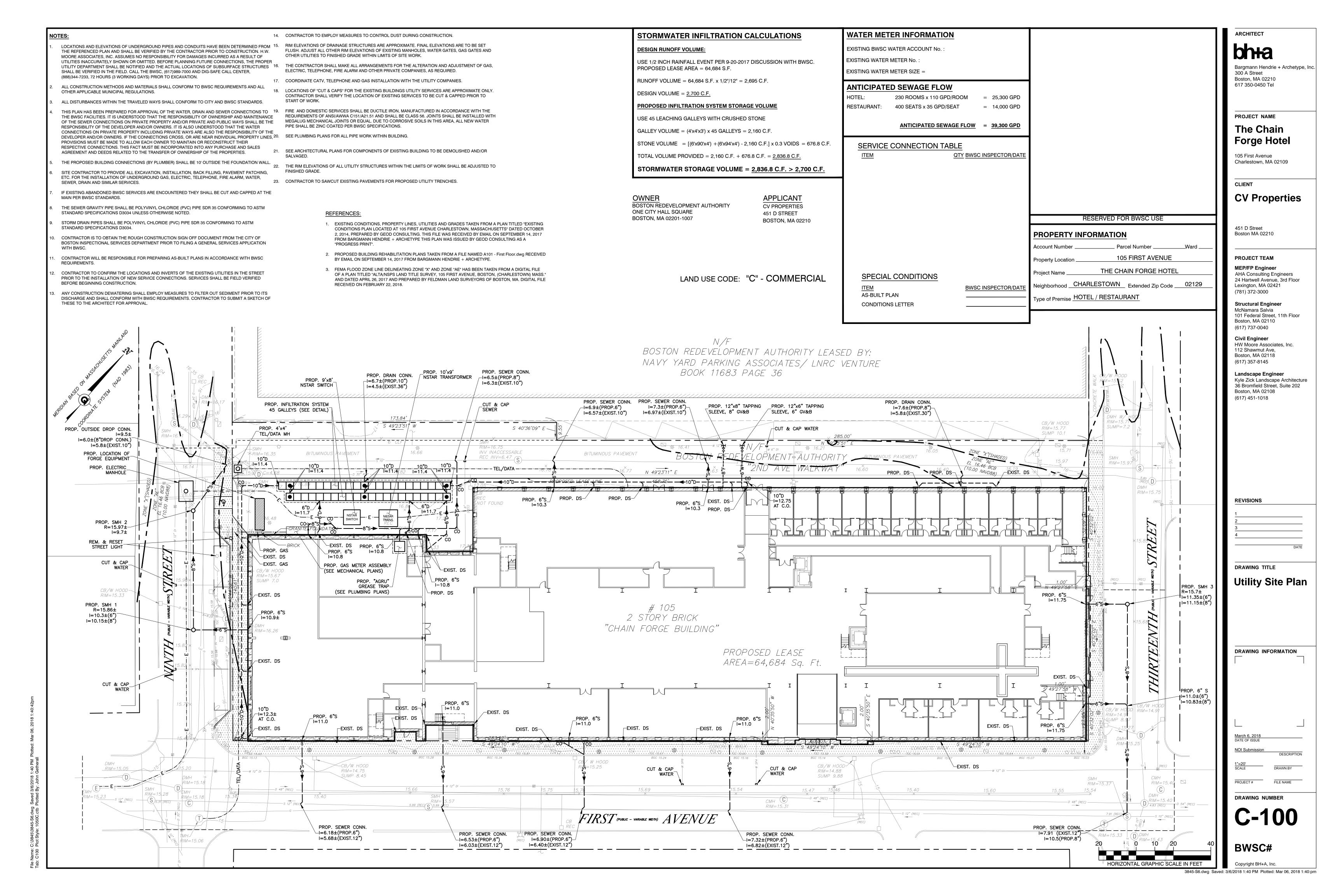
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**ARCHITECT** 

Bargmann Hendrie + Archetype, Inc. Boston, MA 02210

# The Chain Forge Hotel

# **CV** Properties

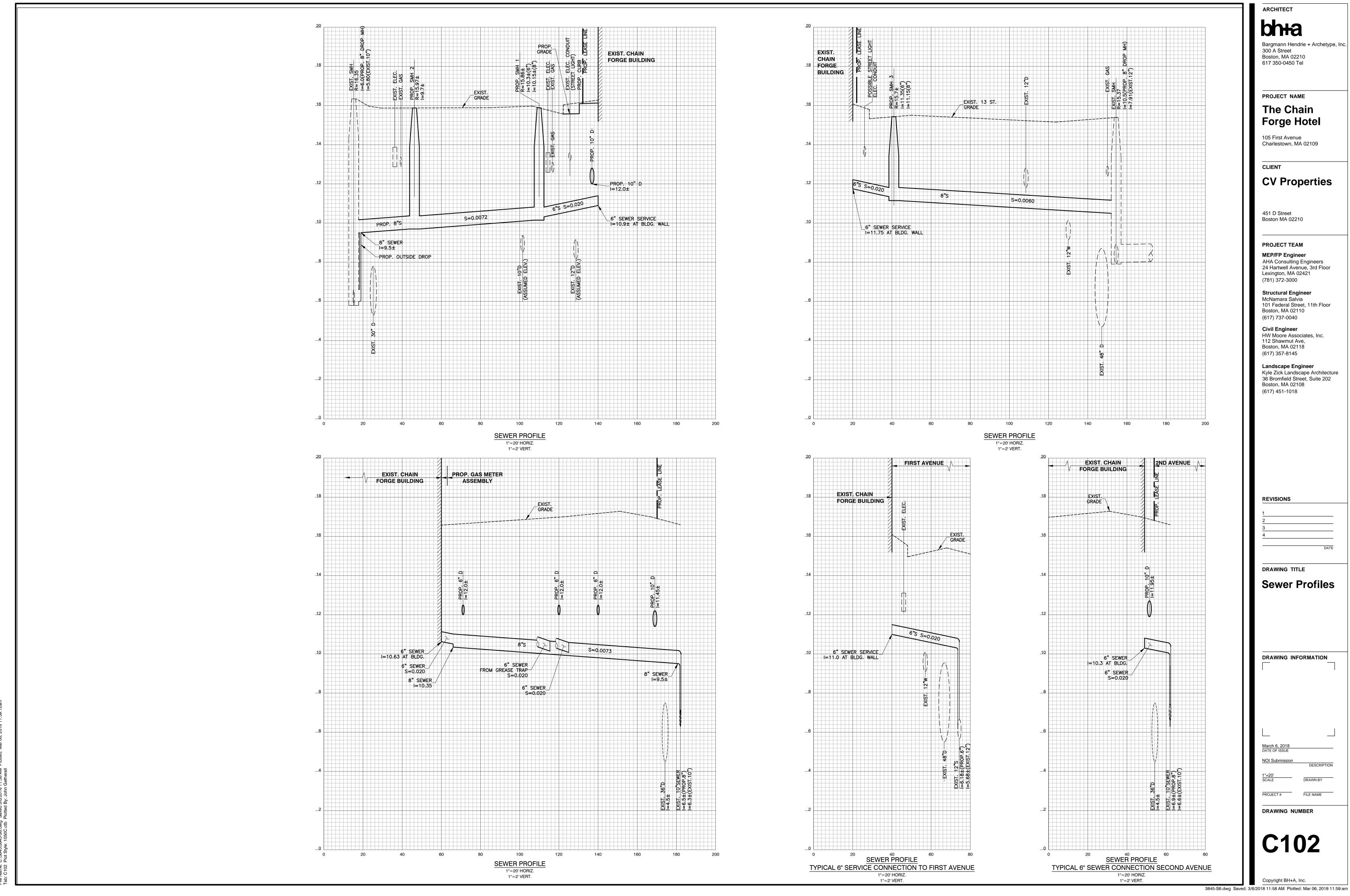
MEP/FP Engineer AHA Consulting Engineers 24 Hartwell Avenue, 3rd Floor Lexington, MA 02421

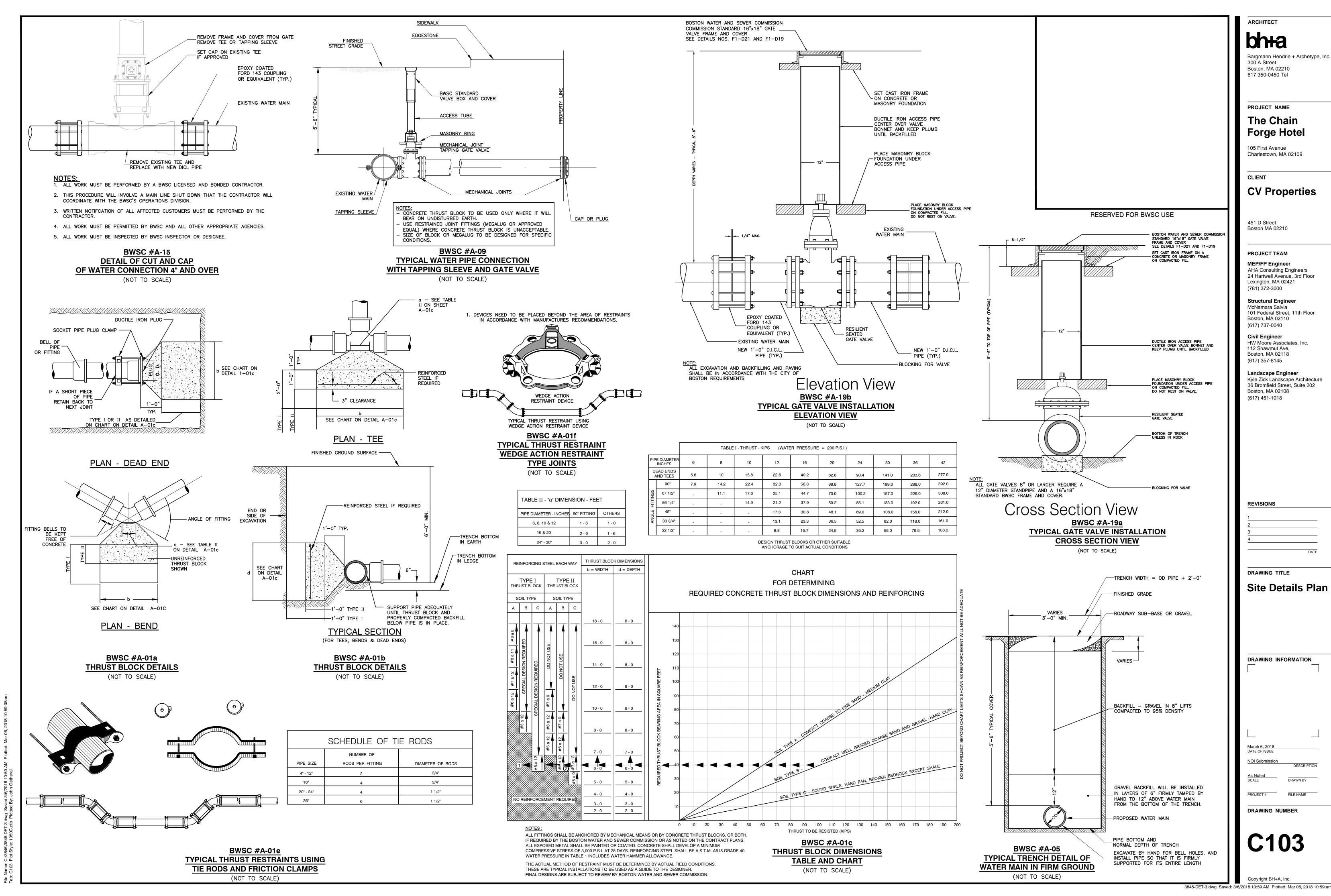
**Structural Engineer** McNamara Salvia 101 Federal Street, 11th Floor Boston, MA 02110

HW Moore Associates, Inc. 112 Shawmut Ave, Boston, MA 02118

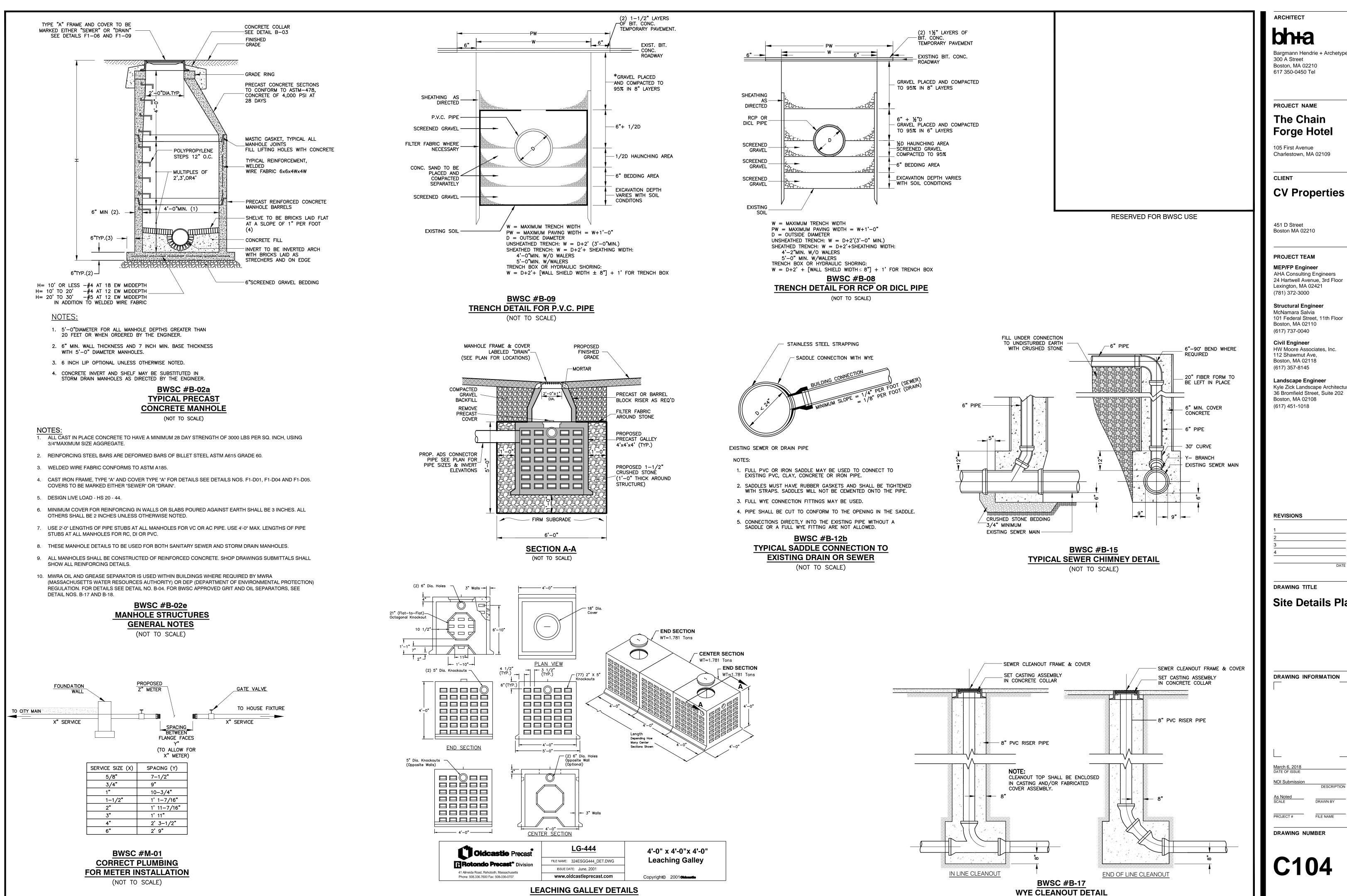
Kyle Zick Landscape Architecture 36 Bromfield Street, Suite 202 Boston, MA 02108

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PROJECT NAME

### The Chain Forge Hotel

105 First Avenue Charlestown, MA 02109

CLIENT

# **CV Properties**

451 D Street Boston MA 02210

**PROJECT TEAM MEP/FP Engineer** AHA Consulting Engineers 24 Hartwell Avenue, 3rd Floor Lexington, MA 02421 (781) 372-3000

Structural Engineer McNamara Salvia 101 Federal Street, 11th Floor Boston, MA 02110 (617) 737-0040

Civil Engineer HW Moore Associates, Inc. 112 Shawmut Ave, Boston, MA 02118

(617) 357-8145 Landscape Engineer Kyle Zick Landscape Architecture 36 Bromfield Street, Suite 202

**REVISIONS** 

DRAWING TITLE

# **Site Details Plan**

DRAWING INFORMATION

NOI Submission

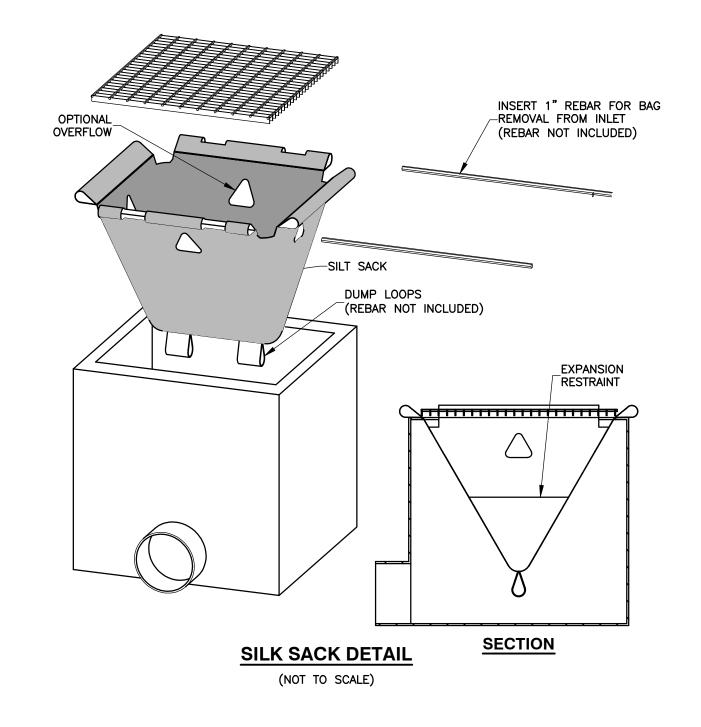
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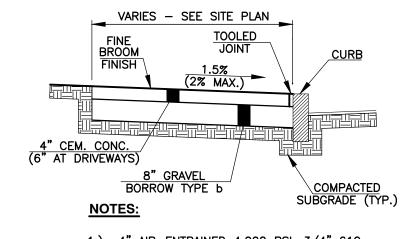
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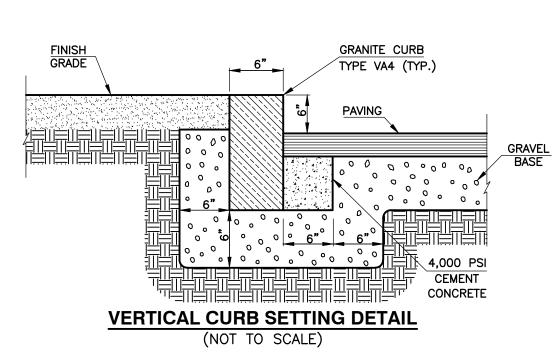


1.) 4" AIR-ENTRAINED 4,000 PSI, 3/4" 610 CEMENT CONCRETE FOR SIDEWALKS, 6" AT DRIVEWAYS.

1.) CONTROL JOINTS EVERY 6' MIN.

2.) PREMOLDED JOINT FILLER EVERY 30' AND AT ALL POLES AND OTHER STRUCTURES.

**CEMENT CONCRETE WALK** (NOT TO SCALE)



TYPE E CATCH BASIN FRAME

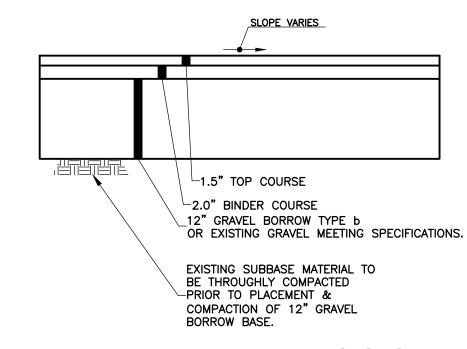
\_TYPE E-1 CATCH BASIN GRATE SEE DETAIL NO. F1-D9

SEE DETAIL NO. F1-D8

\_EDGE STONE

\_\_8"x14" CATCH BASIN SIGN SEE DETAIL NO. F1-D23

10000000000



RESERVED FOR BWSC USE

# **FULL DEPTH PAVEMENT SECTION**

(NOT TO SCALE)

### **PAVEMENT NOTES**

FULL DEPTH CONSTRUCTION

3.5" HOT MIX ASPHALT, PLACED IN TWO COURSES, SURFACE COURSE: 1.5" TOP COURSE MATERIAL OVER 2.0" BINDER COURSE.

12" COMPACTED GRAVEL BORROW TYPE b BASE COURSE:

OR EXISTING GRAVEL MEETING SPECIFICATIONS.

HOT MIX ASPHALT OVERLAY

SURFACE COURSE: 1.5" HOT MIX ASPHALT, PLACED IN ONE LAYER OF

TOP COURSE MATERIAL

1" MINIMUM HOT MIX ASPHALT PLACED IN ONE LEVELING COURSE: LAYER. LEVELING COURSE TO BE PLACED AS

REQUIRED TO CREATE A TRUE CROSS-SECTION PRIOR TO OVERLAY.

SURFACE PREPARATION: THE EXISTING SURFACE SHALL BE PREPARED BY COLD PLANING TO SUFFICIENT DEPTHS TO

ACCOMMODATE THE PROPOSED PROFILE. A TACK COAT OF BITUMEN (RS-1) SHALL BE UNIFORMLY APPLIED BY MECHANICAL MEANS AT A RATE OF 0.05 GALLONS PER SQUARE YARD. THE EXISTING SURFACE SHALL BE CLEANED OF ALL FOREIGN MATTER AND LOOSE MATERIAL AND SHALL BE DRY BEFORE THE TACK COAT IS APPLIED.

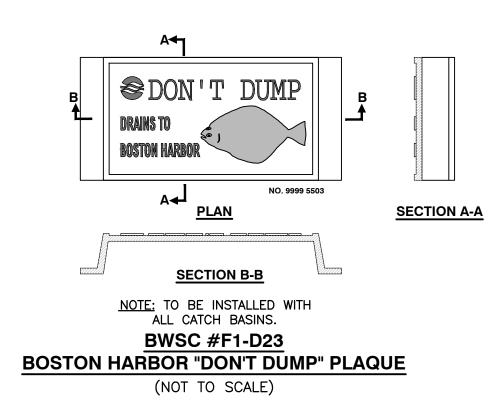
NOTE: FINAL 1.5" OF PAVEMENT WILL BE PLACED OVER ENTIRE ROADWAY AT ONE TIME.

CALCIUM CHLORIDE OR WATER FOR ROADWAY DUST CONTROL.

PROP. DRAIN CONN. LIMITS OF SYSTEM  $-I=6.7\pm(PROP.10")$ CRUSHED STONE  $I=4.5\pm(EXIST.36")$ (TYP.) PROP. INFILTRATION SYSTEM 45 GALLEYS PROP. DRAIN MANHOLE \_10"D COVER SET TO FINISH GRADE l = 11.4(TYP.) 1=11.41 = 11.4\_6"D 1 = 11.71 = 11.7

**INFILTRATION SYSTEM DETAIL** 

1"=10'



BWSC #B-01f

CATCH BASIN "DON'T DUMP"

SIGN INSTALLATION

(NOT TO SCALE)

**ARCHITECT** 

Bargmann Hendrie + Archetype, Inc. 300 A Street Boston, MA 02210 617 350-0450 Tel

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Landscape Engineer Kyle Zick Landscape Architecture 36 Bromfield Street, Suite 202 Boston, MA 02108 (617) 451-1018

**REVISIONS** 

DRAWING TITLE

Site Details Plan

DRAWING INFORMATION

NOI Submission DESCRIPTION

PROJECT # FILE NAME

DRAWING NUMBER

C105

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