

BLUESTONE JAMAICA I, LLC

QUEENS, NEW YORK

Remedial Action Work Plan

NYC VCP Number: 13CVCP085Q

Prepared for:

Bluestone Jamaica I, LLC
193-04 Horace Harding Expressway
Fresh Meadows, NY 11365

Prepared by:

ERM Consulting & Engineering, Inc.
40 Marcus Drive, Suite 200
Melville, NY 11747
(631)-756-8900

August 2012

8 October 2012

New York City Office of Environmental Remediation
City Brownfield Cleanup Program
c/o Shaminder Chawla
100 Gold Street, 2nd Floor
New York, NY 10038



Re: 13CVCP085Q
Bluestone 161st Street Development
Remedial Action Work Plan (RAWP) Stipulation List

Dear Mr. Chawla:

ERM hereby submits a Remedial Action Work Plan (RAWP) Stipulation List for the subject site to the New York City Office of Environmental Remediation (NYCOER) on behalf of Bluestone Jamaica I, LLC. This letter serves as an addendum to the RAWP to stipulate additional content, requirements and procedures that will be followed during the site remediation. The contents of this list are added to the RAWP and will supersede the content in the RAWP where there is a conflict in purpose or intent. The additional requirements/procedures include the following:

Stipulation List

1. The criterion attached in **Addendum 1** will be utilized if petroleum containing tank or vessel is identified during the remedial action or subsequent redevelopment excavation activities. All petroleum spills will be reported to the NYSDEC hotline as required by applicable laws and regulations. This contingency plan is designed for heating oil tanks and other small or moderately sized storage vessels. If larger tanks, such as gasoline storage tanks are identified, OER will be notified before this criterion is utilized.
2. It is the responsibility of the project team to implement a Construction Health & Safety Plan (CHASP) in accordance with local, state, and federal laws and regulations. The CHASP is included in the RAWP as Appendix D.

3. In order to attain a Track 1 Unrestricted Use Cleanup, all imported soil must meet Track 1 Unrestricted Use Soil Cleanup Objectives (SCOs). If plans change and a Track 1 Unrestricted Use Cleanup is not pursued, imported soil will meet the NYSDEC DER-10 soil criteria (Appendix 5 - Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4(e)) applicable to Restricted Residential Use SCO. In doing so, the material will meet the lower of the Restricted Residential SCOs or Protection of Groundwater SCOs.
4. The following architectural and engineering plans signed and stamped by the PE/ RA of record are attached as **Addendum 2**: final cover slab design, excavation diagram for footings/ development-related excavation, and vapor barrier design (cross-section and plan showing horizontal extent).
5. In the event that hazardous waste is identified during the remedial action or subsequent redevelopment excavation activities at this NYC VCP project, and removal and transportation of hazardous waste becomes necessary, the project may be subject to the New York State Department of Environmental Conservation's Special Assessment Tax (ECL 27-0923) and Hazardous Waste Regulatory Fees (ECL 72-00402). See DEC's website for more information: <http://www.dec.ny.gov/chemical/9099.html>.
6. A CD containing the final RAWP including this approved Stipulation List will be placed in the library that constitutes the primary public repository for project documents.
7. Signage for the project will include a sturdy placard mounted in a publically accessible right of way to building and other permits signage will consist of the NYC VCP Information Sheet (attached **Addendum 3**) announcing the remedial action. The Information sheet will be laminated and permanently affixed to the placard.

Sincerely,



Ernest Rossano, C.P.G
Partner

cc: H. Moore

Addendum 1

Generic Procedures for Management of Underground Storage Tanks

identified under the NYC BCP

Prior to Tank removal, the following procedures should be followed:

- Remove all fluid to its lowest draw-off point.
- Drain and flush piping into the tank.
- Vacuum out the “tank bottom” consisting of water product and sludge.
- Dig down to the top of the tank and expose the upper half.
- Remove the fill tube and disconnect the fill, gauge, product, vent lines and pumps. Cap and plug open ends of lines.
- Temporarily plug all tank openings, complete the excavation, remove the tank and place it in a secure location.
- Render the tank safe and check the tank atmosphere to ensure that petroleum vapors have been satisfactorily purged from the tank.
- Clean tank or remove to storage yard for cleaning.
- If the tank is to be moved, it must be transported by licensed waste transporter. Plug and cap all holes prior to transport leaving a 1/8 inch vent hole located at the top of the tank during transport.
- After cleaning, the tank must be made acceptable for disposal at a scrap yard, cleaning the tanks interior with a high pressure rinse and cutting the tank in several pieces.

During the tank and pipe line removal, the following field observations should be made and recorded:

- A description and photographic documentation of the tank and pipe line condition (pitting, holes, staining, leak points, evidence of repairs, etc.).
- Examination of the excavation floor and sidewalls for physical evidence of contamination (odor, staining, sheen, etc.).
- Periodic field screening (through bucket return) of the floor and sidewalls of the excavation, with a calibrated photoionization detector (PID).

Impacted Soil Excavation Methods

The excavation of the impacted soil will be performed following the removal of the existing tanks. Soil excavation will be performed in accordance with the procedures described under Section 5.5 of Draft DER-10 as follows:

- A description and photographic documentation of the excavation.
- Examination of the excavation floor and sidewalls for physical evidence of contamination (odor, staining, sheen, etc.).
- Periodic field screening (through bucket return) of the floor and sidewalls of the excavation, with calibrated photoionization detector (PID).

Final excavation depth, length, and width will be determined in the field, and will depend on the horizontal and vertical extent of contaminated soils as indentified through physical examination (PID response, odor, staining, etc.). Collection of verification samples will be performed to evaluate the success of the removal action as specified in this document.

The following procedure will be used for the excavation of impacted soil (as necessary and appropriate):

- Wear appropriate health and safety equipment as outlined in the Health and Safety Plan.
- Prior to excavation, ensure that the area is clear of utility lines or other obstructions. Lay plastic sheeting on the ground next to the area to be excavated.
- Using a rubber-tired backhoe or track mounted excavator, remove overburden soils and stockpile, or dispose of, separate from the impacted soil.
- If additional UST's are discovered, the NYSDEC will be notified and the best course of action to remove the structure should be determined in the field. This may involve the continued trenching around the perimeter to minimize its disturbance.
- If physically contaminated soil is present (e.g., staining, odors, sheen, PID response, etc.) an attempt will be made to remove it, to the extent not limited by the site boundaries or the bedrock surface. If possible, physically impacted soil will be removed using the backhoe or excavator, segregated from clean soils and overburden, and staged on separated dedicated plastic sheeting or live loaded into trucks from the disposal facility. Removal of the impacted soils will continue until visibly clean material is encountered and monitoring instruments indicate that no contaminants are present.
- Excavated soils which are temporarily stockpiled on-site will be covered with tarp material while disposal options are determined. Tarp will be checked on a daily basis and replaced, repaired or adjusted as needed to provide full coverage. The sheeting will be shaped and secured in such a manner as to drain runoff and direct it toward the interior of the property.

Once the site representative and regulatory personnel are satisfied with the removal effort, verification of confirmatory samples will be collected from the excavation in accordance with DER-10.

Addendum 2
Vapor Barrier Plans

**161ST STREET MIXED-USE
INCLUSIONARY HOUSING
DEVELOPMENT
QUEENS, NY**

BLOCK: 9757, LOTS: 18, 20, 22 & 29

Project Number

DEVELOPER
BLUESTONE JAMAICA 1, LLC

STRUCTURAL ENGINEER
MURRAY ENGINEERING, PC

MECHANICAL ENGINEER
RODKIN CARDINALE CONSULTING ENGINEERS

OWNER
BLUESTONE JAMAICA 1, LLC

ISSUE
DOB FILLING 07-30-2012

SCALE
AS NOTED

DOB

7/30/2012	100% CONSTRUCTION SOE /FND

DRAWING
**SOE SECTIONS AND
ELEVATIONS**

SEAL AND SIGNATURE DATE: 04/13/12

PROJECT NO: _____

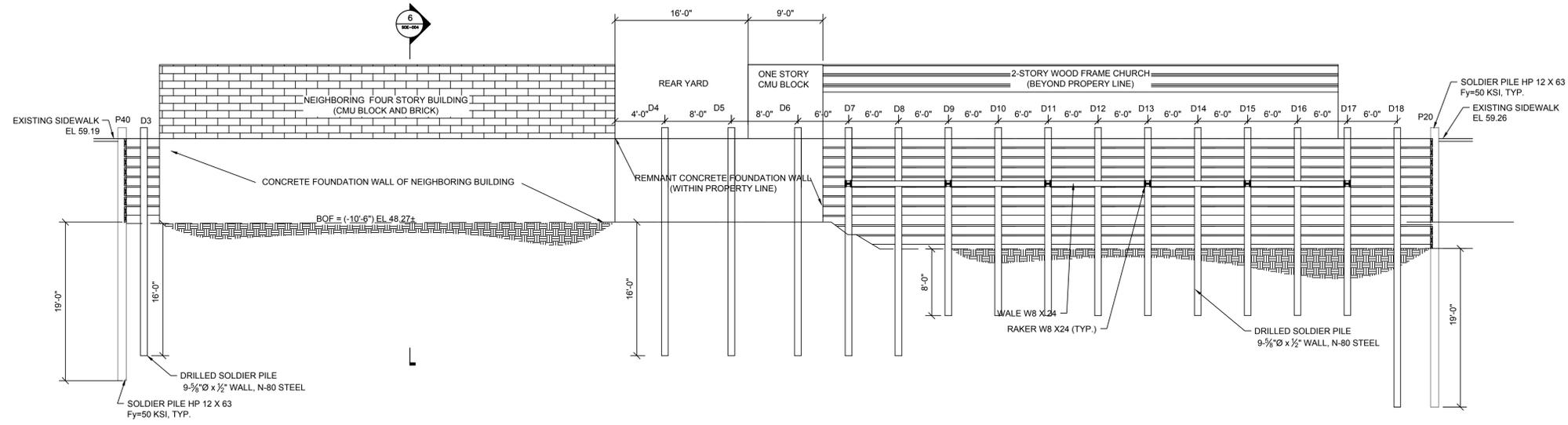
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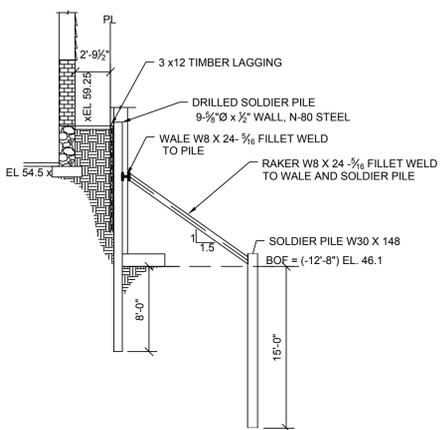
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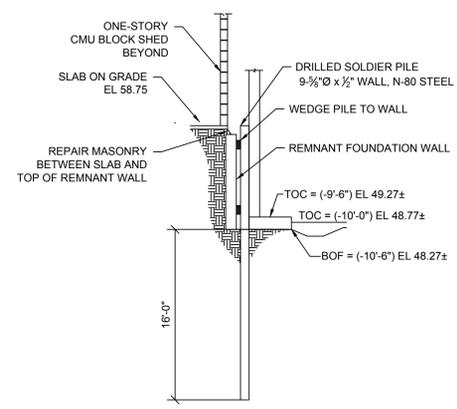
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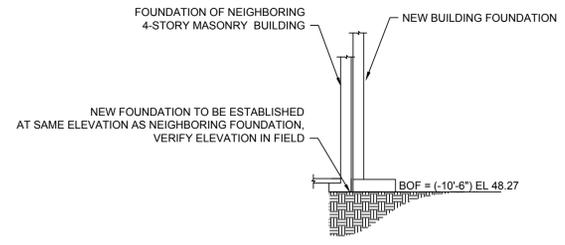
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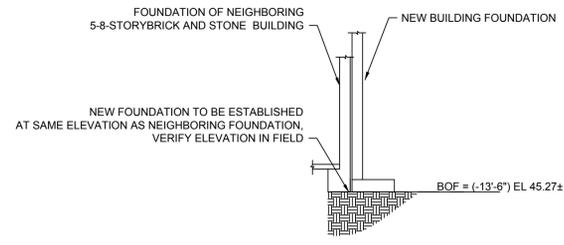
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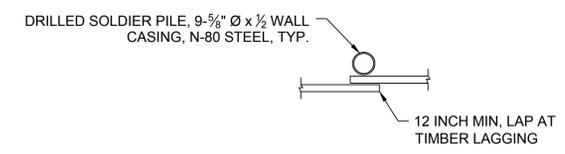
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SCALE: 1/8"=1'



SECTION 6
SCALE: 1/8"=1'



SECTION 7
SCALE: 1/8"=1'



DETAIL 1
NOT TO SCALE



PARTNERS

19 W. 21 ST STREET
NEW YORK, NY 10010
212 352 3099
©GF55 PARTNERS, LLP 2012

161ST STREET MIXED-USE INCLUSIONARY HOUSING DEVELOPMENT QUEENS, NY

BLOCK: 9757, LOTS: 18, 20, 22 & 29

M9131.02

DEVELOPER
BLUESTONE JAMAICA 1, LLC

STRUCTURAL ENGINEER
MURRAY ENGINEERING, PC

MECHANICAL ENGINEER
RODKIN CARDINALE CONSULTING ENGINEERS

OWNER
BLUESTONE JAMAICA 1, LLC

ISSUE
DOB FILLING 07-30-2012

SCALE
AS NOTED

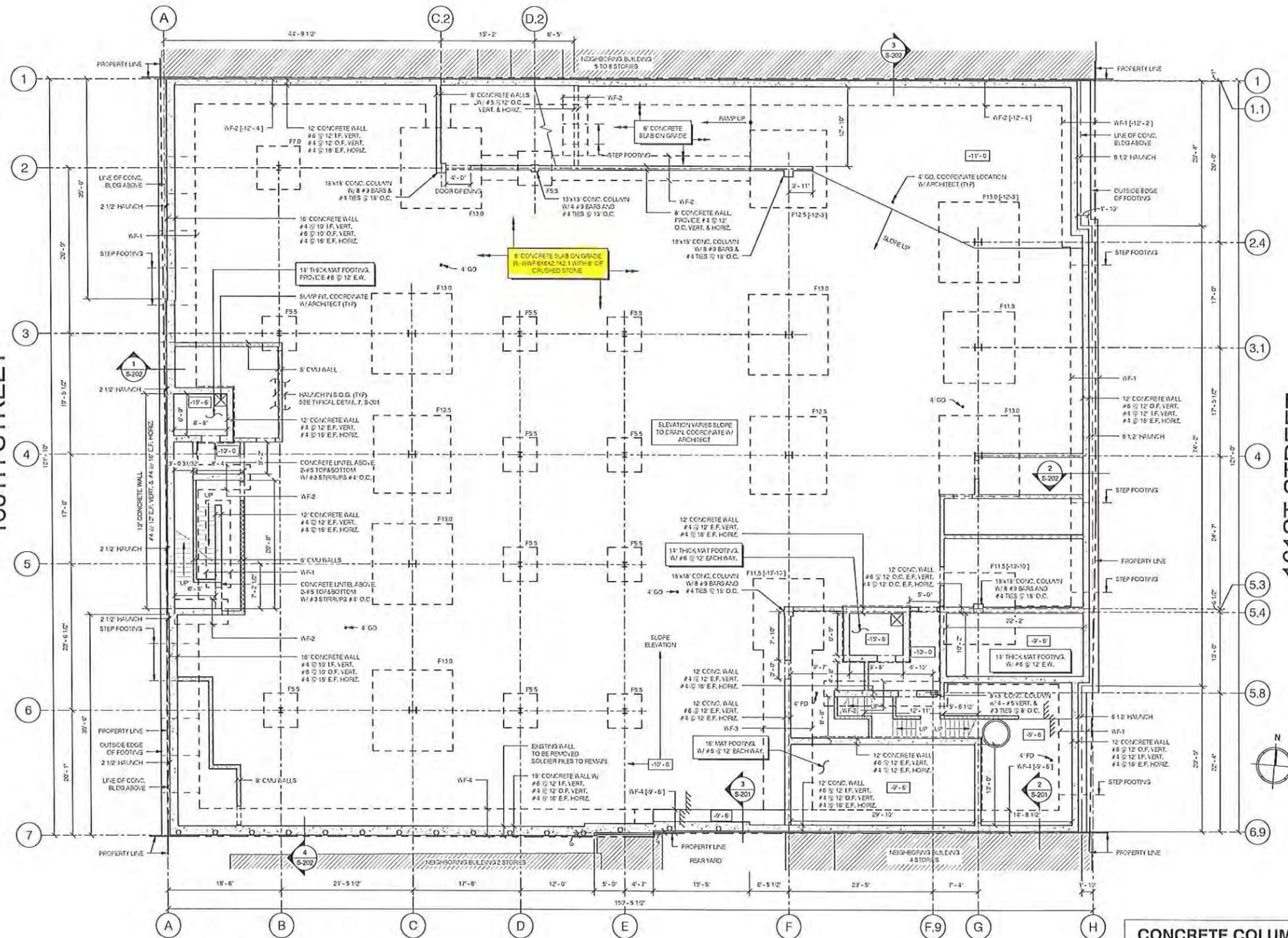
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7/30/2012	100% CONSTRUCTION SOE / FND
8/20/2012	85% CONSTRUCTION DOCUMENTS
10/03/2012	100% CONSTRUCTION DOCUMENTS

DRAWING
FOUNDATION PLAN

DATE: 06/13/12
PROJECT NO: M9131.02
DRAWING BY: JP
CHECKED BY: JH
DVS NO:
SCALE: AS NOTED
S-100.00
DATE: 06/13/12

160TH STREET

161ST STREET



1 FOUNDATION PLAN
S-100 1/8" = 1'-0"

- NOTES:
- TOP OF CELLAR FLOOR CONCRETE ELEVATION [T.O.C.] IS -10'-0" UNLESS OTHERWISE NOTED.
 - TOP OF FOOTING ELEVATION (T.O.F.) IS -11'-6" UNLESS OTHERWISE NOTED.
 - F# INDICATES SPREAD FOOTING. REFER TO FOOTING SCHEDULE. (SEE DWG S-100)
 - WF# INDICATES CONTINUOUS WALL FOOTING. REFER TO WALL FOOTING SCHEDULE. (SEE DWG S-100)
 - COORDINATE FIRE PROTECTING REQ. PREVENTS WITH ARCHITECT.
 - COORDINATE SIZE, NUMBER AND LOCATIONS OF FOUNDATION WALL PENETRATIONS WITH OTHER TRADES.
 - COORDINATE EXACT WALL LAYOUT AND DIMENSIONS WITH ARCHITECT.

MARK	SIZE	REINFORCEMENT
F3.5	5'-0" x 9'-5" x 1'-4"	5 - #8 BARS EACH WAY.
F7.0	7'-0" x 7'-0" x 1'-0"	8 - #8 BARS EACH WAY.
F11.5	11'-6" x 11'-6" x 2'-4"	13 - #8 BARS EACH WAY.
F12.5	12'-6" x 12'-6" x 2'-6"	17 - #8 BARS EACH WAY.
F13.0	13'-0" x 13'-0" x 2'-6"	19 - #8 BARS EACH WAY.

MARK	WIDTH	DEPTH	REINFORCEMENT
WF-1	4'-6"	1'-4"	#5 @ 8" O.C. SHORT DIR. 4 - #8 BARS LONG DIR.
WF-2	4'-0"	1'-2"	#6 @ 12" O.C. SHORT DIR. 4 - #8 BARS LONG DIR.
WF-3	6'-0"	2'-0"	#3 @ 8" O.C. SHORT DIR. 4 - #8 BARS LONG DIR.
WF-4	4'-0"	1'-0"	#6 @ 12" O.C. SHORT DIR. 4 - #8 BARS LONG DIR.

CONCRETE COLUMN SCHEDULE

COLUMN MARK	C2-2	D2-2	F-2	F-5A	F9-5B	F9-5C	G-5.3
FLOOR LEVEL							
A-2ND FLOOR							
1ST FLOOR							
CELLAR FLOOR T.O. SLAB							



161ST STREET MIXED-USE
INCLUSIONARY HOUSING
DEVELOPMENT
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BLOCK: 9757, LOTS: 18, 20, 22 & 29

M9131.02

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ISSUE
DOB FILLING 07-30-2012

SCALE
AS NOTED

DOB	CONSTRUCTION SOE / FND
7/30/2012	100% CONSTRUCTION SOE / FND
8/20/2012	85% CONSTRUCTION DOCUMENTS
10/03/2012	100% CONSTRUCTION DOCUMENTS

DRAWING
WALL SECTIONS

SIGN AND SIGNATURE DATE: 07/03/12

PROJECT NO: 09131.02

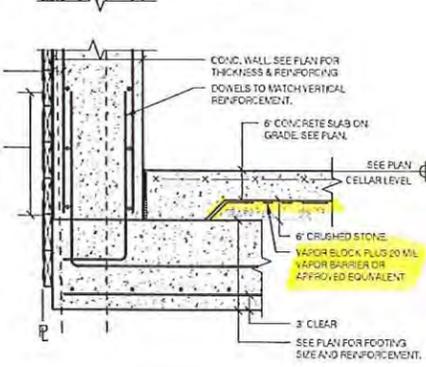
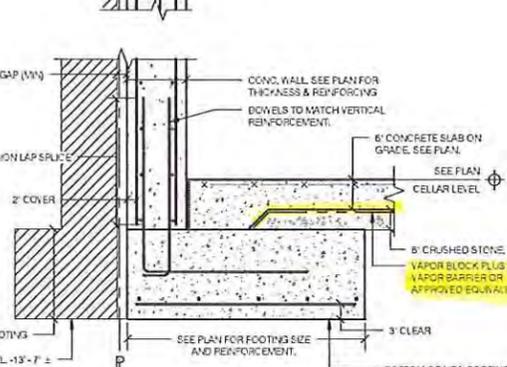
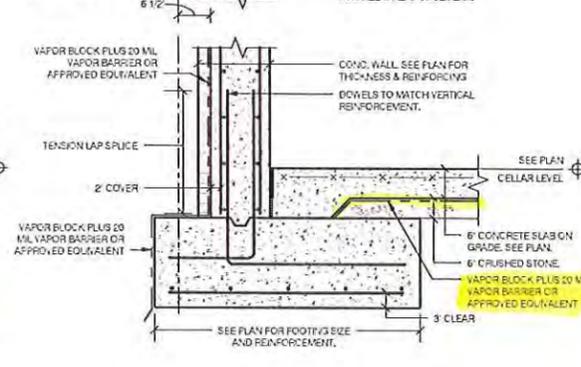
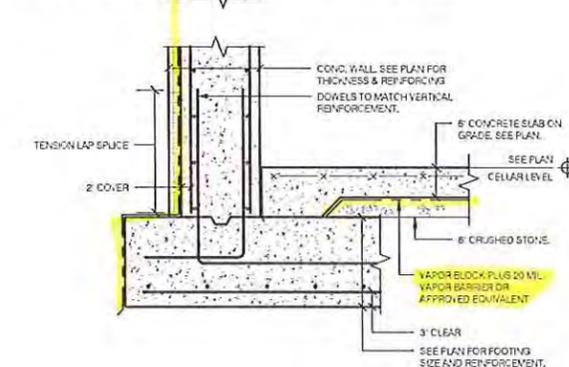
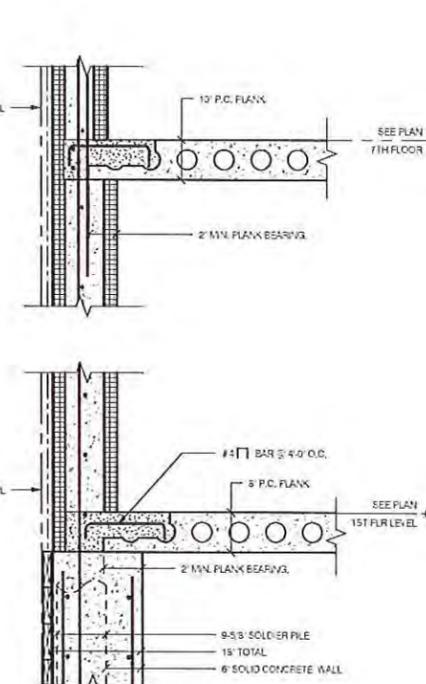
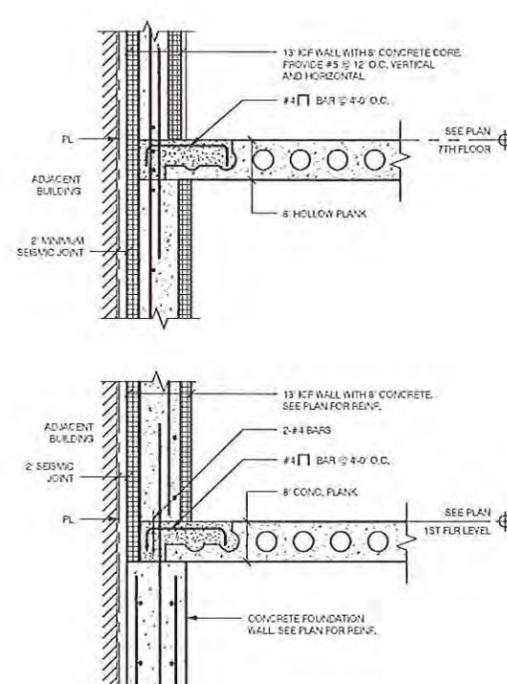
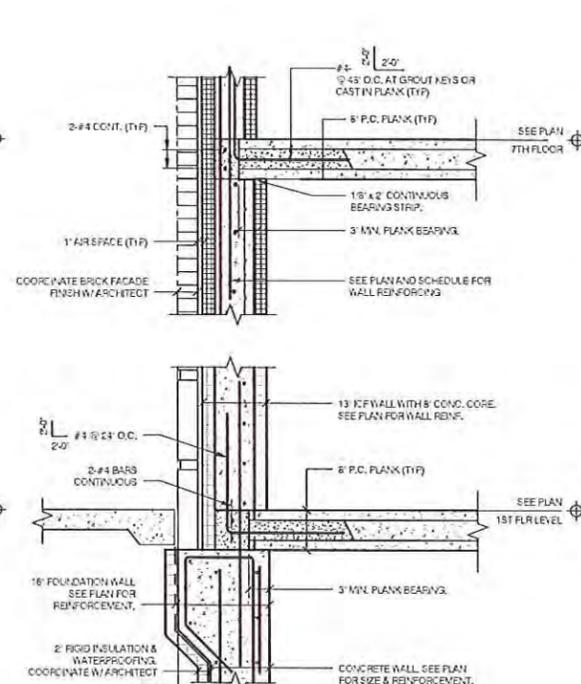
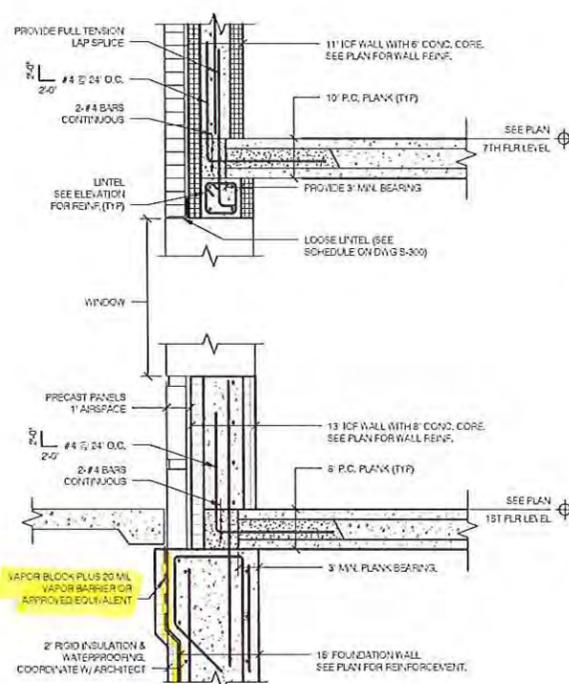
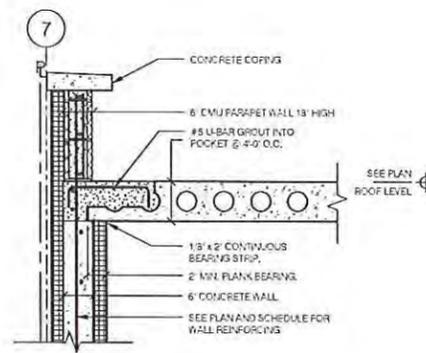
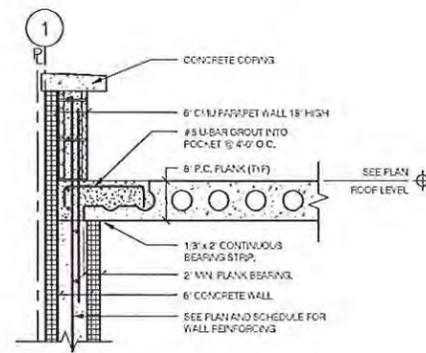
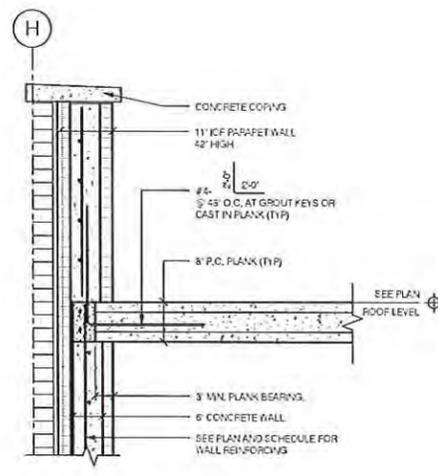
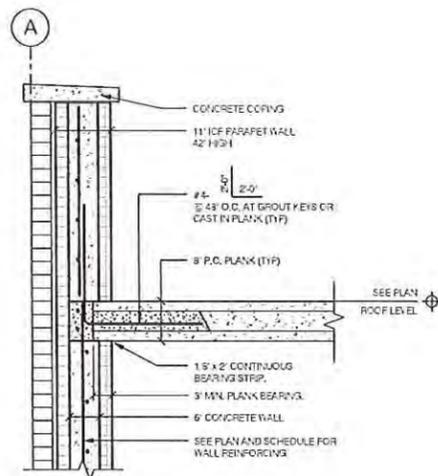
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S-202.00



1 WEST WALL SECTION
S-202 3/4" = 1'-0"

2 EAST WALL SECTION
S-202 3/4" = 1'-0"

3 NORTH WALL SECTION
S-202 3/4" = 1'-0"

4 SOUTH WALL SECTION
S-202 3/4" = 1'-0"

Addendum 3
Signage



NYC Brownfield Cleanup Program

This property is enrolled in the New York City Brownfield Cleanup Program for environmental remediation. This is a voluntary program administered by the NYC Office of Environmental Remediation.

For more information, log on to:

www.nyc.gov/oer



If you have questions or would like more information, please contact:

Shaminder Chawla at (212) 788-8841
or email us at brownfields@cityhall.nyc.gov

Bluestone 161st Street Development Site
Site #: 13CVCP085Q

REMEDIAL ACTION WORK PLAN

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APPENDICES

- Appendix A Citizen Participation Plan
- Appendix B Sustainability Statement
- Appendix C Soil/Materials Management Plan
- Appendix D Health and Safety Plan
- Appendix E Specifications for Vapor Barrier

EXECUTIVE SUMMARY

Bluestone Jamaica I, LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate 18,386-square feet property located at 90-14 161st Street in the Jamaica section of Queens, New York (the Site). A remedial investigation (RI) was performed to compile and evaluate data and information necessary to develop this Remedial Action Work Plan (RAWP). The remedial action described in this document provides for the protection of public health and the environment consistent with the intended property use, complies with applicable environmental standards, criteria and guidance and conforms with applicable laws and regulations.

Site Location and Current Usage

The Site is located at 90-14 161st Street in the Jamaica section in Queens, New York, and is identified as Block 9757 and Lot 18 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is 18,386-square feet and is bounded by 90-04 160th Street, an eight-floor commercial building to the north, 90-18 161st Street, a two-story commercial building to the south, 161st Street to the east, and 160th Street to the west. A map of the site boundary is shown in **Figure 2**. Currently, the Site is vacant undeveloped land and contains no permanent structures or other pertinent Site features.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of residential, commercial, and retail space. Layout of the proposed site development is presented in **Figure 3**. The current zoning designation is C4-5X (mixed residential and commercial buildings). The proposed use is consistent with existing zoning for the property.

The proposed redevelopment plan and end use of the property is a combination of affordable rental housing, commercial, and retail space. Under current redevelopment plans, two nine-story towers will be constructed with 101 rental residential dwelling units, approximately 5,773 square feet of commercial space, approximately 4,063 square feet of retail space on the ground floor, and a sub-grade garage with 39 parking spaces. The sub-grade parking area is expected to be 12 feet in height. A total of 51 parking spaces, including 12 located at grade, will be available on

the site post construction. Bluestone Jamaica I, LLC plans to excavate approximately 13 feet across the entire site, and down to approximately 16 feet for footings and elevator pits at required locations. Excavations and footings will not be located beneath the groundwater table at the Site. In addition, no proposed demolition activities are planned during the proposed redevelopment at the Site.

Summary of the Remedy

The proposed remedial action achieves protection of public health and the environment for the intended use of the property. The proposed remedial action achieves all of the remedial action objectives established for the project and addresses applicable standards, criterion, and guidance; is effective in both the short-term and long-term and reduces mobility, toxicity and volume of contaminants; is cost effective and implementable; and uses standards methods that are well established in the industry.

The proposed remedial action will consist of:

1. Preparation of a Community Protection Statement and performance of all required NYC VCP citizen participation activities according to an approved Citizen Participation Plan;
2. Performance of a Community Air Monitoring Program for particulates and volatile organic compounds;
3. Establishment of Track 1 Soil Cleanup Objectives (SCOs);
4. Site mobilization involving Site security setup, equipment mobilization, utility mark outs and marking and staking excavation areas;
5. Excavation and removal of soil/fill exceeding SCOs. See attached **Figure 4** for soil excavation areas;
6. Screening of excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID. Appropriate segregation of excavated media onsite;

7. Removal of underground storage tanks (if encountered) and closure of petroleum spills (if evidence of a spill/leak is encountered during Site excavation) in compliance with applicable local, State and Federal laws and regulations;
8. Transportation and off-Site disposal of all soil/fill material at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and this plan. Sampling and analysis of excavated media as required by disposal facilities. Appropriate segregation of excavated media onsite;
9. Collection and analysis of end-point samples to determine the performance of the remedy with respect to attainment of SCOs;
10. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations;
11. Installation of a vapor barrier system beneath the building slab and along accessible foundation walls (anticipated to the 160th and 161st Street sides of the building), as part of new construction;
12. Installation of a sub-grade ventilation system, as part of building construction;
13. Capping of entire Site with a 6-inch concrete building slab (except for two small landscaped areas totaling approximately 140 square feet);
14. Implementation of storm-water pollution prevention measures in compliance with applicable laws and regulations;
15. Performance of all activities required for the remedial action, including permitting requirements and pre-treatment requirements, in compliance with applicable laws and regulations;
16. Submission of a RAR that describes the remedial activities, certifies that the remedial requirements have been achieved, defines the Site boundaries, and describes all Engineering and Institutional Controls to be implemented at the Site, and lists any changes from this RAWP;

17. If Track 1 is not achieved, submission of an approved Site Management Plan (SMP) in the RAR for long-term management of residual contamination, including plans for operation, maintenance, monitoring, inspection and certification of Engineering and Institutional Controls and reporting at a specified frequency; and
18. If Track 1 is not achieved, recording of a Declaration of Covenants and Restrictions that includes a listing of Engineering Controls and a requirement that management of these controls must be in compliance with an approved SMP; and Institutional Controls including prohibition of the following: (1) vegetable gardening and farming; (2) use of groundwater without treatment rendering it safe for the intended use; (3) disturbance of residual contaminated material unless it is conducted in accordance with the SMP; and (4) higher level of land usage without OER-approval.

Community Protection Statement

The Office of Environmental Remediation created the New York City Voluntary Cleanup Program (NYC VCP) to provide governmental oversight for the cleanup of contaminated property in NYC. This Remedial Action Work Plan (“cleanup plan”) describes the findings of prior environmental studies that show the location of contamination at the site and describes the plans to clean up the Site to protect public health and the environment.

This cleanup plan provides a very high level of protection for neighboring communities. This cleanup plan also includes many other elements that address common community concerns, such as community air monitoring, odor, dust and noise controls, hours of operation, good housekeeping and cleanliness, truck management and routing, and opportunities for community participation. The purpose of this Community Protection Statement is to explain these community protection measures in non-technical language to simplify community review.

Remedial Investigation and Cleanup Plan. Under the NYC VCP, a thorough cleanup study of this property (called a remedial investigation) has been performed to identify past property usage, to sample and test soils, groundwater and soil vapor, and identify contaminant sources present on the property. The cleanup plan has been designed to address all contaminant sources that have been identified during the study of this property.

Identification of Sensitive Land Uses. Prior to selecting a cleanup, the neighborhood was evaluated to identify sensitive land uses nearby, such as schools, day care facilities, hospitals and residential areas. The cleanup program was then tailored to address the special conditions of this community.

Qualitative Human Health Exposure Assessment. An important part of the cleanup planning for the Site is the performance of a study to find all of the ways that people might come in contact with contaminants at the Site now or in the future. This study is called a Qualitative Human Health Exposure Assessment (QHHEA). A QHHEA was performed for this project. This assessment has considered all known contamination at the Site and evaluated the potential for people to come in contact with this contamination. All identified public exposures will be addressed under this cleanup plan.

Health and Safety Plan. This cleanup plan includes a Health and Safety Plan that is designed to protect community residents and on-Site workers. The elements of this plan are in compliance with safety requirements of the United States Occupational Safety and Health Administration. This plan includes many protective elements including those discussed below.

Site Safety Coordinator. This project has a designated Site safety coordinator to implement the Health and Safety Plan. The safety coordinator maintains an emergency contact sheet and protocol for management of emergencies. The Site safety coordinator is Brice Lynch and can be reached at (631)-756-8900.

Worker Training. Workers participating in cleanup of contaminated material on this project are required to be trained in a 40-hour hazardous waste operators training course and to take annual refresher training. This pertains to workers performing specific tasks including removing contaminated material and installing cleanup systems in contaminated areas.

Community Air Monitoring Plan. Community air monitoring will be performed during this cleanup project to ensure that the community is properly protected from contaminants, dust and odors. Air samples will be tested in accordance with a detailed plan called the Community Air Monitoring Plan or CAMP. Results will be regularly reported to the NYC Office of Environmental Remediation. This cleanup plan also has a plan to address any unforeseen problems that might occur during the cleanup (called a 'Contingency Plan').

Odor, Dust and Noise Control. This cleanup plan includes actions for odor and dust control. These actions are designed to prevent off-Site odor and dust nuisances and includes steps to be taken if nuisances are detected. Generally, dust is managed by application of physical covers and by water sprays. Odors are controlled by limiting the area of open excavations, physical covers, spray foams and by a series of other actions (called operational measures). The project is also required to comply with NYC noise control standards. If you observe problems in these areas, please contact the on-Site Project Manager or NYC Office of Environmental Remediation Project Manager Ms. Hannah Moore at (212)-442-6372.

Quality Assurance. This cleanup plan requires that evidence be provided to illustrate that all cleanup work required under the plan has been completed properly. This evidence will be summarized in the final report, called the Remedial Action Report. This report will be submitted to the NYC Office of Environmental Remediation and will be thoroughly reviewed.

Storm-Water Management. To limit the potential for soil erosion and discharge, this cleanup plan has provisions for storm-water management. The main elements of the storm water management include physical barriers such as tarp covers and erosion fencing, and a program for frequent inspection.

Hours of Operation. The hours for operation of cleanup will comply with the NYC Department of Buildings construction code requirements or according to specific variances issued by that agency. For this cleanup project, the hours of operation are 8am to 4pm and on Monday-Friday.

Signage. While the cleanup is in progress, a placard will be prominently posted at the main entrance of the property with a laminated project Fact Sheet that states that the project is in the NYC Voluntary Cleanup Program, provides project contact names and numbers, and locations of project documents can be viewed.

Complaint Management. The contractor performing this cleanup is required to address all complaints. If you have any complaints, you can call the facility Project Manager Christopher O’Leary at (631)-756-8900, the NYC Office of Environmental Remediation Project Manager Ms. Hannah Moore at (212)-442-6372, or call 311 and mention the Site is in the NYC Voluntary Cleanup Program.

Utility Mark-outs. To promote safety during excavation in this cleanup, the contractor is required to first identify all utilities and must perform all excavation and construction work in compliance with NYC Department of Buildings regulations.

Soil and Liquid Disposal. All soil and liquid material removed from the Site as part of the cleanup will be transported and disposed of in accordance with all applicable City, State and Federal regulations and required permits will be obtained.

Soil Chemical Testing and Screening. All excavations will be supervised by a trained and properly qualified environmental professional. In addition to extensive sampling and chemical testing of soils on the Site, excavated soil will be screened continuously using hand-held instruments, by sight, and by smell to ensure proper material handling and management, and community protection.

Stockpile Management. Soil stockpiles will be kept covered with tarps to prevent dust, odors and erosion. Stockpiles will be frequently inspected. Damaged tarp covers will be promptly replaced. Stockpiles will be protected with silt fences. Hay bales will be used, as needed to protect storm water catch basins and other discharge points.

Trucks and Covers. Loaded trucks leaving the Site will be covered in compliance with applicable laws and regulations to prevent dust and odor. Trucks will be properly recorded in logs and records and placarded in compliance with applicable City, State and Federal laws, including those of the New York State Department of Transportation. If loads contain wet material that can leak, truck liners will be used. All transport of materials will be performed by licensed truckers and in compliance with all laws and regulations.

Imported Material. All fill materials proposed to be brought onto the Site will comply with rules outlined in this cleanup plan and will be inspected and approved by a qualified worker located on-Site. Waste materials will not be brought onto the Site. Trucks entering the Site with imported clean materials will be covered in compliance with applicable laws and regulations.

Equipment Decontamination. All equipment used for cleanup work will be inspected and washed, if needed, before it leaves the Site. Trucks will be cleaned at a truck inspection station on the property before leaving the Site.

Housekeeping. Locations where trucks enter or leave the Site will be inspected every day and cleaned regularly to ensure that they are free of dirt and other materials from the Site.

Truck Routing. Truck routes have been selected to: (a) limit transport through residential areas and past sensitive nearby properties; (b) maximize use of city-mapped truck routes; (c) limit total distance to major highways; (d) promote safety in entry to highways; (e) promote overall safety in trucking; and (f) minimize off-Site line-ups (queuing) of trucks entering the

property. Operators of loaded trucks leaving the Site will be instructed not to stop or idle in the local neighborhood.

Final Report. The results of all cleanup work will be fully documented in a final report (called a Remedial Action Report) that will be available for you to review in the public document repositories located at NYC OER online document repository.

Long-Term Site Management. To provide long-term protection after the cleanup is complete, the property owner will be required to comply with an ongoing Site Management Plan that calls for continued inspection of protective controls, such as Site covers. The Site Management Plan is evaluated and approved by the NYC Office of Environmental Remediation. Requirements that the property owner must comply with are defined in the property's deed. A certification of continued protectiveness of the cleanup will be required from time to time to show that the approved cleanup is still effective.

LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
AS/SVE	Air Sparging/Soil Vapor Extraction
BOA	Brownfield Opportunity Area
CAMP	Community Air Monitoring Plan
C/D	Construction/Demolition
COC	Certificate of Completion
CQAP	Construction Quality Assurance Plan
CSOP	Contractors Site Operation Plan
DCR	Declaration of Covenants and Restrictions
ECs/ICs	Engineering and Institutional Controls
GQSs	Groundwater Quality Standards
HASP	Health and Safety Plan
IRM	Interim Remedial Measure
VCA	Voluntary Cleanup Agreement
MNA	Monitored Natural Attenuation
NOC	Notice of Completion
NYC VCP	New York City Voluntary Cleanup Program
NYC DEP	New York City Department of Environmental Protection
NYC DOHMH	New York State Department of Health and Mental Hygiene
NYCRR	New York Codes Rules and Regulations
NYC OER	New York City Office of Environmental Remediation
NYS DEC	New York State Department of Environmental Conservation
NYS DEC DER	New York State Department of Environmental Conservation Division of Environmental Remediation
NYS DOH	New York State Department of Health
NYS DOT	New York State Department of Transportation
ORC	Oxygen-Release Compound
OSHA	United States Occupational Health and Safety Administration

PE	Professional Engineer
PID	Photo Ionization Detector
QEP	Qualified Environmental Professional
QHHEA	Qualitative Human Health Exposure Assessment
RAOs	Remedial Action Objectives
RAR	Remedial Action Report
RAWP	Remedial Action Work Plan or Plan
RCA	Recycled Concrete Aggregate
RD	Remedial Design
RI	Remedial Investigation
RMZ	Residual Management Zone
SCOs	Soil Cleanup Objectives
SCG	Standards, Criteria and Guidance
SMP	Site Management Plan
SPDES	State Pollutant Discharge Elimination System
SVOC	Semi-Volatile Organic Compound
USGS	United States Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compound

CERTIFICATION

I, John Mohlin, am a Professional Engineer licensed in the State of New York. I have primary direct responsibility for implementation of the remedial action for the Bluestone Jamaica I, LLC Site, (NYC VCP Site No. 13CVCP085Q).

I, Ernest Rossano am a Qualified Environmental Professional as defined in §43-140. I have primary direct responsibility for implementation of the remedial action for the Bluestone Jamaica I, LLC Site, (NYC VCP Site No. 13CVCP085Q)

I certify that this Remedial Action Work Plan (RAWP) has a plan for handling, transport and disposal of soil, fill, fluids and other materials removed from the property in accordance with applicable City, State and Federal laws and regulations. Importation of all soil, fill and other material from off-Site will be in accordance with all applicable City, State and Federal laws and requirements. This RAWP has provisions to control nuisances during the remediation and all invasive work, including dust and odor suppression.

John Mohlin

Name

077921

NYS PE License Number



Signature

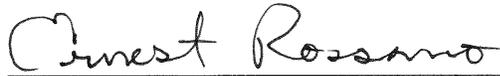
9/4/12

Date



Ernest ROSSANO

QEP Name



QEP Signature

9/4/12

Date

REMEDIAL ACTION WORK PLAN

1.0 SITE BACKGROUND

Bluestone Jamaica I, LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a property located at 90-14 161st Street in the Jamaica section of Queens, New York (the Site). A Remedial Investigation (RI) was performed to compile and evaluate data and information necessary to develop this Remedial Action Work Plan (RAWP) in a manner that will render the Site protective of public health and the environment consistent with the contemplated end use. This RAWP establishes remedial action objectives, provides remedial alternatives analysis that includes consideration of a permanent cleanup, and provides a description of the selected remedial action. The remedial action described in this document provides for the protection of public health and the environment, complies with applicable environmental standards, criteria and guidance and applicable laws and regulations.

1.1 SITE LOCATION AND CURRENT USAGE

The Site is located at 90-14 161st Street in the Jamaica section in Queens, New York, and is identified as Block 9757 and Lot 18 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is 18,386-square feet and is bounded by 90-04 160th Street, an eight-floor commercial building to the north, 90-18 161st Street, a two-story commercial building to the south, 161st Street to the east, and 160th Street to the west. A map of the site boundary is shown in **Figure 2**. Currently, the Site is vacant undeveloped land and contains no permanent structures or other pertinent Site features.

1.2 PROPOSED REDEVELOPMENT PLAN

The proposed future use of the Site will consist of residential, commercial, and retail space. Layout of the proposed site development is presented in **Figure 3**. The current zoning designation is C4-5X (mixed residential and commercial buildings). The proposed use is consistent with existing zoning for the property.

The proposed redevelopment plan and end use of the property is a combination of affordable rental housing, commercial, and retail space. Under current redevelopment plans, two nine-story

towers will be constructed with 101 rental residential dwelling units, approximately 5,773 square feet of commercial space, approximately 4,063 square feet of retail space on the ground floor, and a sub-grade garage with 39 parking spaces. The sub-grade parking area is expected to be 12 feet in height. A total of 51 parking spaces, including 12 located at grade, will be available on the site post construction. Bluestone Jamaica I, LLC plans to excavate approximately 13 feet across the entire site, and down to approximately 16 feet for footings and elevator pits at required locations. Excavations and footings will not be located beneath the groundwater table at the Site. In addition, no proposed demolition activities are planned during the proposed redevelopment at the Site.

The remedial action contemplated under this RAWP may be implemented independently of the proposed redevelopment plan.

1.3 DESCRIPTION OF SURROUNDING PROPERTY

The subject property is situated within a commercial (C4-5X) zoning area. The abutting properties include:

<u>Direction</u>	<u>Use/ Description</u>
North	90-04 161 st Street – The Title Guarantee Company
East	161 st Street and beyond by 90-05 161 st Street - an apartment building.
South	Residential apartments and a deli (90-20 161 st Street)
West	160 st Street and beyond by a parking garage

1.4 REMEDIAL INVESTIGATION

A remedial investigation was performed and the results are documented in a companion document called “*Remedial Investigation Report, Bluestone Jamaica I, LLC*”, dated July, 2012, (RIR).

Summary of Past Uses of Site and Areas of Concern

Based on interviews with site personnel, a review of aerial photographs, Sanborn maps, and historical records, the subject property was utilized as residential dwellings and the Chub Club until the early 1920s. From circa 1925 until the 1960s the subject property maintained stores and residential dwellings. From the mid-1960s until the present, the subject property has maintained stores, offices, and parking areas.

The AOCs identified for this site include:

- historic fill layer present at the Site from grade to 12 to 15 feet below grade.

Summary of the Work Performed under the Remedial Investigation

ERM performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Conducted a geophysical survey using a T-W6 metal detector and a cart mounted ground-penetrating radar (GPR) unit of the Site;
3. Installed 12 soil borings across the entire project Site, and collected 18 soil samples for chemical analysis to evaluate soil quality;
4. Installed 4 temporary groundwater monitoring wells throughout the Site to establish groundwater flow and collected 4 groundwater samples for chemical analysis to evaluate groundwater quality; and
5. Installed 4 soil vapor probes around the Site perimeter and collected 4 samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property is approximately 61 feet.
2. Depth to groundwater ranges from 42 to 46 feet at the Site.
3. Groundwater flow is generally southwest beneath the Site.
4. Depth to bedrock at the Site is greater than 100 feet.
5. The stratigraphy of the Site, from the surface down, consists of 12 to 15 feet of historic fill material underlain by a native brown silty sand.
6. Soil/fill samples collected during the RI showed no PCBs at detectable concentrations and no pesticides above Track 1 Unrestricted Use SCOs. No VOCs were detected above Track 1 Unrestricted Use SCOs, as only trace levels (less than 20 ppb) of acetone, naphthalene, and trimethylbenzene were detected. Six SVOCs, all Polycyclic Aromatic

Hydrocarbons (PAHs) compounds, were detected at concentrations above their Track 2 Restricted Residential SCOs in one shallow sample (total SVOC concentration of approximately 269 ppm). Four metals exceeded UUSCOs in shallow soil samples, and of these, lead (max 460 mg/kg) and mercury (max 0.84 mg/kg) also exceeded their Track 2 Restricted Residential SCOs. No VOCs, SVOCs, pesticides, PCBs, or metals were detected above Unrestricted Use SCOs within any of the deep soil samples collected at the Site. Overall the findings were consistent with observations of historical fill.

7. No PCBs were detected in any of the groundwater samples collected at the Site, and no pesticides or VOCs were detected above their respective GQSs. The only VOCs detected were PCE (max of 3.5 ug/L) in 2 samples and naphthalene (1.1 ug/L) in 1 sample. No chlorinated VOCs were identified in any of the soil samples collected on Site. PAH SVOCs were found above their respective GQSs in one groundwater sample collected in 2008, but both samples collected in 2012 showed no detections of SVOCs in groundwater suggesting that the earlier findings are linked with a turbid sample rather than on-Site conditions. The following dissolved metals were detected above their respective NYSDEC GQS: manganese and sodium. The RI indicates that groundwater is not impacted by site conditions and did not reveal any sources of contaminants on-site.
8. Soil vapor samples collected during the RI showed chlorinated and petroleum-related VOCs at generally low concentrations. Tetrachloroethene (PCE) was identified in all four samples at a maximum concentration of 111 µg/m³, which falls within the monitoring level range of the State DOH soil vapor guidance matrix. Trichloroethene (TCE) was not detected in soil vapor. Neither PCE nor TCE were detected within any of the soil samples collected at the Site, and these low levels and the Site's history suggest a possible off-site origin.

For more detailed results, consult the RIR. Based on an evaluation of the data and information from the RIR and this RAWP, disposal of significant amounts of hazardous waste is not suspected at this site.

2.0 REMEDIAL ACTION OBJECTIVES

Based on the results of the RI, the following Remedial Action Objectives (RAOs) have been identified for this Site:

Groundwater

- Prevent direct exposure to contaminated groundwater.

Soil

- Prevent direct contact with contaminated soil.
- Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor

- Prevent exposure to contaminants in soil vapor.
- Prevent migration of soil vapor into dwelling and other occupied structures.

3.0 REMEDIAL ALTERNATIVES ANALYSIS

The goal of the remedy selection process is to select a remedy that is protective of human health and the environment taking into consideration the current, intended and reasonably anticipated future use of the property. The remedy selection process begins by establishing RAOs for media in which chemical constituents were found in exceedance of applicable standards, criteria and guidance values (SCGs). A remedy is then developed based on the following nine criteria:

- Protection of human health and the environment;
- Compliance with SCGs;
- Short-term effectiveness and impacts;
- Long-term effectiveness and permanence;
- Reduction of toxicity, mobility, or volume of contaminated material;
- Implementability;
- Cost effectiveness;
- Community Acceptance;
- Land use; and
- Sustainability of Remedy.

The following is a detailed description of the alternatives analysis and remedy selection to address impacted media at the Site. As required, a minimum of two remedial alternatives (including a Track 1 scenario) are evaluated, as follows:

- Alternative 1 involves
 - Complete removal of all soil/ fill exceeding Track 1 Unrestricted Use SCOs throughout the Site (expected excavation to a depth of approximately 12 to 16 feet bgs to remove all historic fill at the Site) and confirmation that Track 1 Unrestricted Use SCOs have been achieved with post-excavation endpoint sampling.
 - Installation of a vapor barrier beneath the basement foundation and behind accessible foundation sidewalls (anticipated to be the 160th and 161st Street sides of the building)

and sub-grade ventilation system as part of new construction to prevent any potential exposures from off-Site groundwater and soil vapor.

- Alternative 2 involves
 - Establishment of Track 4 Site-Specific SCOs (as defined in Section 4.2) via excavation and removal of soil/ fill exceeding Track 4 Site-Specific SCOs;
 - Placement of a final cover over the entire Site to eliminate exposure to remaining soil/fill;
 - Placement of vapor barrier beneath foundation slab and behind accessible sidewalls (anticipated to be the 160th and 161st Street sides of the building) and installation of sub-grade ventilation system to prevent soil vapor entering new building;
 - Establishment of use restrictions including prohibitions on the use of groundwater from the site and prohibitions on sensitive site uses, such as farming or vegetable gardening, to eliminate future exposure pathways;
 - Establishment of an approved Site Management Plan to ensure long-term management of these engineering and institutional controls including the performance of periodic inspections and certification that the controls are performing as they were intended; and
 - Placement of a deed restriction to memorialize the remedial action and the Engineering and Institutional Controls to ensure that future owners of the site continue to maintain these controls as required.

3.1 THRESHOLD CRITERIA

Protection of Public Health and the Environment

This criterion is an evaluation of the remedy's ability to protect public health and the environment, and an assessment of how risks posed through each existing or potential pathway of exposure are eliminated, reduced or controlled through removal, treatment, and implementation of Engineering Controls or Institutional Controls. Protection of public health and the environment must be achieved for all approved remedial actions.

Alternative 1 would be protective of human health and the environment by removing the historic fill at the Site, thus eliminating potential for direct contact with contaminated soil/ fill

once construction is complete and eliminating the risk of contamination leaching into groundwater. Potential exposure to contaminated soils during construction would be minimized by implementing an approved Soil / Materials Management Plan and Community Air Monitoring Plan (CAMP). There is minimal potential for contact with contaminated groundwater as it is neither used nor anticipated to be encountered during construction/ the remedial action. Potential migration of soil vapors into the new building would be prevented by installing a vapor barrier and sub-grade ventilation system as part of new construction.

Alternative 2 would achieve comparable protections of human health and the environment since soil to a depth of 12 to 15 feet will be removed for purposes of construction and by ensuring that remaining soil/ fill on-Site meets Track 4 Site-Specific SCOs (as defined in Section 4.2) as well as by placement of institutional and engineering controls, including a composite cover system. The composite cover system would prevent direct contact with any remaining on-Site soil/fill. Implementing institutional controls including a deed notice and a Site Management Plan would ensure that the composite cover system remains intact and protective. Establishment of Track 4 Site-Specific SCOs would minimize the risk of contamination leaching into groundwater. Potential exposure to contaminated soils during construction would be minimized by implementing an approved Soil / Materials Management Plan and Community Air Monitoring Plan (CAMP). Potential contact with contaminated groundwater would be eliminated as it would be prohibited by the deed notice, and it is not anticipated to be encountered during construction. Potential migration of soil vapors into the new building would be prevented by installing a vapor barrier and sub-grade ventilation system as part of new construction.

3.2. BALANCING CRITERIA

Compliance with Standards, Criteria and Guidance (SCGs)

Alternative 1 would achieve compliance with the remedial goals, SCGs and RAOs for soil through removal to Track 1 Unrestricted Use SCOs. Compliance with SCGs for soil vapor would also be achieved by installation of vapor barrier as part of construction. Focused attention on means and methods employed during the remedial action would ensure that handling and management of contaminated material would be in compliance with applicable SCGs.

Alternative 2 would address the chemical-specific SCGs for soil and soil vapor by establishment of Track 4 SCO and removal of soils exceeding these SCOs, and installation of engineering controls to mitigate against soil vapor intrusion. Similar to the Track 1 alternative, focused attention on means and methods employed during the remedial action would ensure that handling and management of contaminated material would be in compliance with applicable SCGs.

Short-term effectiveness and impacts

This evaluation criterion assesses the effects of the alternative during the construction and implementation phase until remedial action objectives are met. Under this criterion, alternatives are evaluated with respect to their effects on public health and the environment during implementation of the remedial action, including protection of the community, environmental impacts, time until remedial response objectives are achieved, and protection of workers during remedial actions.

The Track 1 and Track 4 Alternatives are both considered to be effective in protecting human health and the environment in the short term. Alternative 1 would eliminate and Alternative 2 would reduce exposure to contaminant sources. The Track 1 and Track 4 Alternatives would both employ appropriate measures to prevent short term impacts, including a Community Air Monitoring Plan (CAMP) and a Soil/Materials Management Plan (SMMP), during all on-site soil disturbance activities and would effectively prevent the release of significant contaminants into the environment. Both alternatives provide short term effectiveness in protecting the surrounding community by decreasing the risk of contact with on-site contaminants. Construction workers operating under appropriate management procedures and a Health and Safety Plan (CHASP) will be protected from on-site contaminants (personal protective equipment would be worn consistent with the documented risks within the respective work zones).

Long-term effectiveness and permanence

This evaluation criterion addresses the results of a remedial action in terms of its permanence and quantity/nature of waste or residual contamination remaining at the Site after response objectives have been met, such as permanence of the remedial alternative, magnitude of

remaining contamination, adequacy of controls including the adequacy and suitability of ECs/ICs that may be used to manage contaminant residuals that remain at the Site and assessment of containment systems and ICs that are designed to eliminate exposures to contaminants, and long-term reliability of Engineering Controls.

Alternative 1 would achieve long-term effectiveness and permanence related to on-Site contamination by permanently removing all impacted soil/fill.

Alternative 2 would provide long-term effectiveness by removing most on-site contamination and attaining Track 4 Site-Specific SCOs, establishing a composite cover system across the Site, establishing use restrictions, establishing a Site Management Plan to ensure long-term management of Institutional Controls (ICs) and Engineering Controls (ECs), and placing a deed restriction to memorialize these controls for the long term. Establishment of an SMP and a deed restriction will ensure that this protection remains effective for the long-term. The SMP will ensure long-term effectiveness of all ECs and ICs by requiring periodic inspection and certification that these controls and use restrictions continue to be in place and are functioning as they were intended assuring that protections designed into the remedy will provide continued high level of protection in perpetuity.

Reduction of toxicity, mobility, or volume of contaminated material

This evaluation criterion assesses the remedial alternative's use of remedial technologies that permanently and significantly reduce toxicity, mobility, or volume of contaminants as their principal element. The following is the hierarchy of source removal and control measures that are to be used to remediate a Site, ranked from most preferable to least preferable: removal and/or treatment, containment, elimination of exposure and treatment of source at the point of exposure. It is preferred to use treatment or removal to eliminate contaminants at a Site, reduce the total mass of toxic contaminants, cause irreversible reduction in contaminants mobility, or reduce of total volume of contaminated media.

Alternative 1 will permanently eliminate the toxicity, mobility, and volume of contaminants from on-Site soil by removing all soil in excess of unrestricted use SCOs. Alternative 1 would eliminate a greater total mass of contaminants on site.

Alternative 2 would permanently eliminate the toxicity, mobility, and volume of contaminants from on-Site soil excavated for development purposes to a depth of approximately 12 to 16 feet, and any remaining soil/fill would meet Track 4 Site-Specific SCOs.

Implementability

This evaluation criterion addresses the technical and administrative feasibility of implementing an alternative and the availability of various services and materials required during its implementation, including technical feasibility of construction and operation, reliability of the selected technology, ease of undertaking remedial action, monitoring considerations, administrative feasibility (e.g. obtaining permits for remedial activities), and availability of services and materials.

Both alternatives will utilize standard methods that are commonly available and routinely applied by the industry. They use standard materials and services that are well established technology. The reliability of each remedy is also high. There are no special difficulties associated with any of the activities proposed.

Cost effectiveness

This evaluation criterion addresses the cost of alternatives, including capital costs (such as construction costs, equipment costs, and disposal costs, engineering expenses) and site management costs (costs incurred after remedial construction is complete) necessary to ensure the continued effectiveness of a remedial action.

Initial costs associated with the Track 1 alternative are higher than the Track 4 alternative in that a higher volume of soil/fill will be excavated for off-site disposal to achieve a Track 1 status over the entire site. However, long-term costs are anticipated to be higher for Alternative 2 than Alternative 1 based on implementation of a Site Management Plan and placement of a deed restriction as part of Alternative 2. In both cases, appropriate public health and environmental protections are achieved.

Community Acceptance

This evaluation criterion addresses community opinion and support for the remedial action. Observations here will be supplemented by public comment received on the RAWP.

Based on the overall goals of the remedial program and initial observations by the project team, both of the alternatives for the Site would be acceptable to the community. This RAWP will be subject to and undergo public review under the NYC VCP and will provide the opportunity for detailed public input on the remedial alternatives and the selected remedial action. This public comment will be considered by OER prior to approval of this plan.

Land use

This evaluation criterion addresses the proposed use of the property. This evaluation has considered reasonably anticipated future uses of the Site and takes into account: current use and historical and/or recent development patterns; applicable zoning laws and maps; NYS Department of State's Brownfield Opportunity Areas (BOA) pursuant to section 970-r of the general municipal law; applicable land use plans; proximity to real property currently used for residential use, and to commercial, industrial, agricultural, and/or recreational areas; environmental justice impacts, Federal or State land use designations; population growth patterns and projections; accessibility to existing infrastructure; proximity of the site to important cultural resources and natural resources, potential vulnerability of groundwater to contamination that might emanate from the site, proximity to flood plains, geography and geology; and current Institutional Controls applicable to the site.

Because of the complete soil removal proposed for the Track 1 alternative, it provides protection of public health and the environment for both the proposed use of the Site and any future use. Alternative 1 provides a remedial action that is beneficial to the surrounding community and is consistent with the goals of the City for remediating and redeveloping brownfield sites.

Alternative 2 also provides sufficient environmental and public health protection for the intended use. This alternative provides for engineering controls and institutional controls that would provide protections against off site vapor migration.

Both alternatives for remedial action at the site are comparable with respect to the proposed use and to land uses in the vicinity of the Site. The proposed use is consistent with the existing zoning designation, C4-5X for the property and is consistent with recent development patterns. The Site is surrounded by commercial and residential properties and both alternatives provide

comprehensive protection of public health and the environment for these uses. Improvements in the current brownfield condition of the property achieved by both alternatives are also consistent with the City's goals for cleanup of contaminated land and bringing such properties into productive reuse. Both alternatives are equally protective of natural resources and cultural resources.

Sustainability of the Remedial Action

This criterion evaluates the overall sustainability of the remedial action alternatives and the degree to which sustainable means are employed to implement the remedial action including those that take into consideration NYC's sustainability goals defined in *PlaNYC: A Greener, Greater New York*. Sustainability goals may include: maximizing the recycling and reuse of non-virgin materials; reducing the consumption of virgin and non-renewable resources; minimizing energy consumption and greenhouse gas emissions; improving energy efficiency; and promotion of the use of native vegetation and enhancing biodiversity during landscaping associated with Site development.

While Alternative 2 would potentially result in lower energy usage based on reducing the volume of material transported off-Site, both remedial alternatives are comparable with respect to the opportunity to achieve sustainable remedial action.

4.0 REMEDIAL ACTION

4.1 SUMMARY OF PREFERRED REMEDIAL ACTION

The preferred remedial action alternative is Alternative 1. The preferred remedial action alternative achieves protection of public health and the environment for the intended use of the property. The preferred remedial action alternative will achieve all of the remedial action objectives established for the project and addresses applicable SCGs. The preferred remedial action alternative is effective in both the short-term and long-term and reduces mobility, toxicity and volume of contaminants. The preferred remedial action alternative is cost effective and implementable and uses standards methods that are well established in the industry.

The proposed remedial action will consist of:

1. Preparation of a Community Protection Statement and performance of all required NYC VCP citizen participation activities according to an approved Citizen Participation Plan;
2. Performance of a Community Air Monitoring Program for particulates and volatile organic compounds;
3. Establishment of Track 1 Soil Cleanup Objectives (SCOs);
4. Site mobilization involving Site security setup, equipment mobilization, utility mark outs and marking & staking excavation areas;
5. Excavation and removal of soil/fill exceeding SCOs. See attached **Figure 4** for soil excavation areas;
6. Screening of excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID. Appropriate segregation of excavated media onsite;
7. Removal of underground storage tanks (if encountered) and closure of petroleum spills (if evidence of a spill/leak is encountered during Site excavation) in compliance with applicable local, State and Federal laws and regulations;
8. Transportation and off-Site disposal of all soil/fill material at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal,

and this plan. Sampling and analysis of excavated media as required by disposal facilities. Appropriate segregation of excavated media onsite;

9. Collection and analysis of end-point samples to determine the performance of the remedy with respect to attainment of SCOs;
10. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations;
11. Installation of a vapor barrier system beneath the building slab, as part of building construction;
12. Installation of a sub-grade ventilation system, as part of building construction;
13. Capping of entire Site with a 6-inch concrete building slab (except for two small landscaped areas totaling approximately 140 square feet);
14. Implementation of storm-water pollution prevention measures in compliance with applicable laws and regulations;
15. Performance of all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations;
16. Submission of a RAR that describes the remedial activities, certifies that the remedial requirements have been achieved, defines the Site boundaries, and describes all Engineering and Institutional Controls to be implemented at the Site, and lists any changes from this RAWP;
17. If Track 1 is not achieved, submission of an approved Site Management Plan (SMP) in the RAR for long-term management of residual contamination, including plans for operation, maintenance, monitoring, inspection and certification of Engineering and Institutional Controls and reporting at a specified frequency; and
18. If Track 1 is not achieved, recording of a Declaration of Covenants and Restrictions that includes a listing of Engineering Controls and a requirement that management of these controls must be in compliance with an approved SMP; and Institutional Controls

including prohibition of the following: (1) vegetable gardening and farming; (2) use of groundwater without treatment rendering it safe for the intended use; (3) disturbance of residual contaminated material unless it is conducted in accordance with the SMP; and (4) higher level of land usage without OER-approval.

4.2 SOIL CLEANUP OBJECTIVES AND SOIL/FILL MANAGEMENT

Track 1 Soil Cleanup Objectives (SCOs) are proposed for this project. If Track 1 is not achieved, the following Track 4 Site-Specific SCOs will be used:

<u>Contaminant</u>	<u>Track 4 SCOs</u>
Total SVOCs	250 ppm
Lead	1000 ppm
Mercury	2.5 ppm

Soil and materials management on-Site and off-Site, including excavation, handling and disposal, will be conducted in accordance with the Soil/Materials Management Plan. The extent of the planned excavation is shown in Figure 4. The excavation will extend to the property line to a depth of approximately 12 to 16 feet below grade. The 12-foot depth is the approximate level of the floor slab. The 16-foot depth is the anticipated depths of footers.

Estimated Soil/Fill Removal Quantities

The total quantity of soil/fill expected to be excavated and disposed off-Site is 13,790 tons.

Disposal location(s) will be reported promptly to the OER Project Manager prior to the start of the remedial action.

End-Point Sampling

Removal actions under this plan will be performed in conjunction with remedial end-point sampling. For assessment of attainment of Track 1 Unrestricted Use SCOs, the RI provided endpoint data meeting Unrestricted Use SCOs at 13 to 15 feet below grade across the Site. End-point sampling frequency will consist of six bottom samples collected from the excavation (see Figure 5 for approximate locations). To evaluate attainment of Track 1 Unrestricted Use SCOs,

endpoint samples will be analyzed for the full list of VOCs, SVOCs, PCBs, Pesticides, and Metals (see method/analyte lists below). In addition, post-removal end-point sampling and testing may be performed following removal of historic fill and completed prior to removal of remaining material that is anticipated to meet Track 1 Unrestricted Use SCOs SCOs to verify suitability for soil recycling. Bottom samples will be taken within 24 hours of excavation, and will be taken from the zero to six-inch interval at the excavation floor. Samples taken after 24 hours will be taken at six to twelve inches.

In addition, if hotspots (i.e., areas of gross contamination as evidenced by elevated PIDs, visually, or odor) are identified during the remedial action or construction, hotspot removal actions under this plan will be performed in conjunction with remedial end-point sampling. Remedial end-point sampling frequency will consist of the following:

1. For excavations less than 20 feet in total perimeter, at least one bottom sample and one sidewall sample biased in the direction of surface runoff.
2. For excavations 20 to 300 feet in perimeter:
 - For surface removals, one sample from the top of each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area.
 - For subsurface removals, one sample from each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area.
3. For sampling of volatile organics, bottom samples should be taken within 24 hours of excavation, and should be taken from the zero to six-inch interval at the excavation floor. Samples taken after 24 hours should be taken at six to twelve inches.
4. For contaminated soil removal, post remediation soil samples for laboratory analysis should be taken immediately after contaminated soil removal. If the excavation is enlarged horizontally, additional soil samples will be taken pursuant to bullets 1-3 above.

Post-remediation sample locations and depth will be biased towards the areas and depths of highest contamination identified during previous sampling episodes unless field indicators such

as field instrument measurements or visual contamination identified during the remedial action indicate that other locations and depths may be more heavily contaminated. In all cases, post-remediation samples should be biased toward locations and depths of the highest expected contamination.

New York State ELAP certified labs will be used for all end-point sample analyses. Labs for end-point sample analyses will be reported in the RAR. The RAR will provide a tabular and map summary of all end-point sample results and will include all data including non-detects and applicable standards and/or guidance values. End-point samples will be analyzed for trigger analytes (those for which SCO exceedance is identified) utilizing the following methodology:

- Volatile organic compounds by EPA Method 8260;
- Semi-volatile organic compounds by EPA Method 8270;
- Target Analyte List metals; and
- Pesticides/PCBs by EPA Method 8081/8082.

If either LNAPL and/or DNAPL are detected, appropriate samples will be collected for characterization and “finger print analysis” and required regulatory reporting (i.e. spills hotline) will be performed.

Quality Assurance/Quality Control

Field QA/QC will include the following procedures:

- Calibration of field equipment, including PID, on a daily basis;
- Analysis of one (1) duplicate sample;
- Use of dedicated and/or disposable field sampling equipment;
- Proper sample handling and preservation;
- Proper sample chain of custody documentation; and
- Completion of report logs.

The above procedures will be executed as follows:

- One (1) duplicate end-point soil sample will be collected to evaluate field

sampling precision or reproducibility of measurements of the same parameter under the given set of conditions;

- Disposable sampling equipment will be used to minimize cross-contamination between samples;
- For each of the parameters analyzed, a sufficient sample volume will be collected to adhere to the specific analytical protocol, and provide sufficient sample for reanalysis if necessary;
- Appropriate sample preservation techniques, including cold temperature storage at 4° C, will be utilized to ensure that the analytical parameters concentrations do not change between the time of sample collection and analysis; and
- Samples will be analyzed prior to the expiration of the respective holding time for each analytical parameter to ensure the integrity of the analytical results.

Import and Reuse of Soils

Any import of soils onto the property and reuse of soils already onsite will be performed in conformance with the Soil/Materials Management Plan in Appendix C. The estimated quantity of soil to be imported into the Site for backfill and cover soil is 1800 cubic yards in-place. No onsite soil/fill is expected to be reused/relocated.

4.3 ENGINEERING CONTROLS

Engineering controls are not required for this Track 1 cleanup. However, as part of construction, the following elements will be constructed to provide protections against soil vapor from surrounding properties: soil vapor barrier, sub-grade ventilation system, and composite cover. If Track 1 is not achieved, these elements will constitute engineering controls that will be employed in the remedial action to address residual contamination remaining at the site.

Composite Cover System

If a Track 4 cleanup were necessary, exposure to residual soil/fill would be prevented by an engineered, composite cover system to be built on the Site. The entire property would be covered by an engineered permanent cover system comprised of a six-inch concrete-building slab beneath the proposed building.

The composite cover system would serve as a permanent engineering control for the Site if the Track 1 Cleanup is not achieved.

Vapor Barrier

Migration of soil vapor will be mitigated with a combination of building slab and vapor barrier. A high density polyethylene vapor barrier liner (HPDE) will be installed prior to pouring the building's concrete slab. The vapor barrier will consist of a 20-mil VaporBlock® 20 Plus™ or OER-approved equivalent barrier. The vapor barrier will extend throughout the area occupied by the footprint of the new building and up the accessible sidewalls according to manufacturer specifications. Due to the presence of the sidewalls adjacent to other buildings, the only accessible sidewalls are anticipated to the 160th and 161st Street sides of the building. The specifications state that all vapor barrier seams, penetrations, and repairs will be sealed either by the tape method or weld method, according to the manufacturer's recommendations and instructions. Product specifications and installation guidelines are provided in Appendix E.

The Remedial Closure Report will include photographs (maximum of two photos per page) of the installation process, PE/RA certified letter (on company letterhead) from primary contractor responsible for installation oversight and field inspections.

Sub-grade Ventilation System

As part of the development plan, a sub-grade parking garage will be constructed in the building cellar and ventilated in accordance with the NYC building code. The operation of this sub-grade ventilation system will prevent accumulation of potential soil vapor in the parking garage, and further prevent migration of soil vapor into the occupied above-grade spaces of the building.

4.4 INSTITUTIONAL CONTROLS

Institutional Controls (IC) are not required for this remedial action. However, if Track 1 Unrestricted Use SCOs are not achieved, IC's will be incorporated into this remedial action to manage residual soil/fill and other media and render the Site protective of public health and the environment. Institutional Controls are listed below. Long-term employment of EC/ICs would be established in a Declaration of Covenant and Restrictions (DCR) assigned to the property by

the title holder and would be implemented under a site-specific Site Management Plan (SMP) that will be included in the RAR.

If Track 1 Unrestricted Use SCOs are not achieved, ICs for this remedial action would consist of the following:

- Recording of an OER-approved Declaration of Covenant and Restrictions (DCR) with the City Register or county clerk, as appropriate. The DCR will include a description of all ECs and ICs, will summarize the requirements of the Site Management Plan, and will note that the property owner and property owner's successors and assigns must comply with the DCR and the approved SMP. The recorded DCR will be submitted in the Remedial Action Report. The DCR will be recorded prior to OER issuance of the Notice of Completion;
- Submittal of a Site Management Plan in the RAR for approval by OER that provides procedures for appropriate operation, maintenance, monitoring, inspection, reporting and certification of ECs. SMP will require that the property owner and property owner's successors and assigns will submit to OER a periodic written statement that certifies that: (1) controls employed at the Site are unchanged from the previous certification or that any changes to the controls were approved by OER; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. OER retains the right to enter the Site in order to evaluate the continued maintenance of any controls. This certification shall be submitted annually and will comply with RCNY §43-1407(1)(3).
- Vegetable gardens and farming on the Site are prohibited;
- Use of groundwater underlying the Site is prohibited without treatment rendering it safe for its intended use;
- All future activities on the Site that will disturb residual material must be conducted pursuant to the soil management provisions in an approved SMP;
- The Site will be used for restricted residential use and will not be used for a higher level of use without prior approval by OER.

4.5 SITE MANAGEMENT PLAN

A Site Management Plan (SMP) will be implemented under this Remedial Action if Track 1 Unrestricted Use SCOs are not achieved. Site Management is the last phase of remediation and begins with the approval of the Remedial Action Report and issuance of the Notice of Completion (NOC) for the Remedial Action. The Site Management Plan (SMP) describes appropriate methods and procedures to ensure implementation of all ECs and ICs that are required by the DCR and this RAWP. The Site Management Plan is submitted as part of the RAR but will be written in a manner that allows its use as an independent document. Site Management continues until terminated in writing by OER. The property owner is responsible to ensure that all Site Management responsibilities defined in the DCR and the Site Management Plan are implemented.

The SMP will provide a detailed description of the procedures required to manage residual soil/fill left in place following completion of the remedial action in accordance with the Voluntary Cleanup Agreement with OER. This includes a plan for: (1) implementation of EC's and ICs; (2) implementation of monitoring programs; (3) operation and maintenance of EC's; (4) inspection and certification of EC's; and (5) reporting.

Site management activities, reporting, and EC/IC certification will be scheduled on a periodic basis to be established in the SMP and will be subject to review and modification by OER. The Site Management Plan will be based on a calendar year and certification reports will be due for submission to OER by March 31 of the year following the reporting period.

4.6 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

Investigations reported in the Remedial Investigation Report (RIR) are sufficient to complete a Qualitative Human Health Exposure Assessment (QHHEA).

Known and Potential Sources

Historic fill material is present at the Site from grade to approximately 12 to 15 feet below grade. Based on the results of the RIR, the contaminants of concern found are:

Soil

- Metals, including lead and mercury, exceeding Restricted Residential SCOs; and
- PAHs exceeding Restricted Residential SCOs.

Groundwater

- Metals, including sodium and manganese, exceeding GQS.

Soil vapor

- Chlorinated VOCs detected at low concentrations including PCE.

Nature, Extent, Fate and Transport of Contaminants

SVOCs and metals are present in the historic fill materials throughout the Site. Metal and SVOC contaminants found in soil were not found dissolved in groundwater above their respective GQSs, indicating that this contamination is not mobilizing into groundwater or migrating off-Site.

The chlorinated VOCs that were identified in soil gas at low concentrations at the Site were not found in any on-Site soil sample and only at low concentrations in groundwater, suggesting that they are not related to on-Site contamination.

Potential Routes of Exposure

An exposure route is the mechanism by which a receptor comes into contact with a chemical. Three potential primary routes exist by which chemicals can enter the body:

- Ingestion of water, fill or soil;
- Inhalation of vapors and particulates; and
- Dermal contact with water, fill, or soil.

Existence of Human Health Exposure

Existing

The Site is undeveloped, vacant and uncapped. Under current Site conditions, exposure to surficial historic fill material is possible. Groundwater is not exposed at the Site, and because the

Site is served by the public water supply, groundwater is not used at the Site. There are no structures on Site where soil vapor could accumulate.

Construction/ Remediation Activities

Once redevelopment activities begin, construction workers could come into direct contact with surface and subsurface soils as a result of on-Site construction/excavation activities. Similarly, off-Site receptors could be exposed to dust from onsite activities. During construction, on-Site and off-Site exposures to contaminated dust from on-Site will be addressed through dust controls, and through the implementation of the Community Air Monitoring Plan and a Construction Health and Safety Plan. A Health & Safety Plan will be implemented to prevent worker exposure to soil. Groundwater is not anticipated to be encountered, and there will be no structures on site where soil vapor could accumulate.

Proposed Future Conditions

Once the remedial actions and redevelopment of the Site has been completed, there will be no potential on-Site or off-Site exposure pathways to above-grade building occupants. Not only will historic fill be removed, but the Site will also be fully capped with the concrete building slab, or soil meeting applicable SCOs in the case of the two small landscaped areas; this will prevent contact with any residual soils. Any exposures to vapors from off-site sources will be prevented by installation of a vapor barrier and building slab. In addition, the ventilation system for the parking garage will prevent accumulation of any soil vapor that enters the cellar.

Receptor Populations

On-Site Receptors—The Site is currently vacant and undeveloped, and a fence restricts access to the Site. Therefore, the only potential on-Site receptors are Site representatives and trespassers. During redevelopment of the Site, the on-Site potential receptors will include construction workers, site representatives, and visitors. Once the Site is redeveloped, the on-Site potential sensitive receptors will include adult and child building residents, workers, and visitors.

Off-Site Receptors - Potential off-Site receptors within a 0.25-mile radius of the Site include: adult and child residents, and commercial and construction workers, pedestrians, trespassers, and cyclists, based on the following:

1. Commercial Businesses (up to 0.25 mile) – existing and future
2. Residential Buildings (up to 0.25 mile) – existing and future
3. Building Construction/Renovation (up to 0.25 mile) – existing and future
4. Pedestrians, Trespassers, Cyclists (up to 0.25 mile) – existing and future
5. Schools (up to 0.25 mile) – existing and future

Overall Human Health Exposure Assessment

Based upon this analysis, complete on-site exposure pathways appear to be present only during the current unremediated phase and the remedial action phase. Under current conditions, on-Site exposure pathways are minimized by preventing access to the Site. During the remedial action, on-site exposure pathways will be eliminated by preventing access to the Site, through implementation of soil/materials management, stormwater pollution prevention, dust controls, employment of a community air monitoring plan, and implementation of a Construction Health and Safety Plan. After the remedial action is complete, there will be no remaining exposure pathways to on-Site soil/ fill, as all soil that exceeds Track 1 Unrestricted Use SCOs will have been removed, and the vapor barrier and concrete building slab will minimize potential for soil vapor intrusion.

5.0 REMEDIAL ACTION MANAGEMENT

5.1 PROJECT ORGANIZATION AND OVERSIGHT

Principal personnel who will participate in the remedial action include Site Safety Coordinator & Field Team Leader Brice Lynch. The Professional Engineer (PE) and Qualified Environmental Professionals (QEP) for this project are John Mohlin and Ernest Rossano, respectively.

5.2 SITE SECURITY

Site access will be controlled by gated locked entrances to the fenced Site.

5.3 WORK HOURS

The hours for operation of remedial construction will be from 8:00 am to 4:00 pm. These hours conform to the New York City Department of Buildings construction code requirements.

5.4 CONSTRUCTION HEALTH AND SAFETY PLAN

The Health and Safety Plan is included in Appendix 4. The Site Safety Coordinator will be Brice Lynch. Remedial work performed under this RAWP will be in full compliance with applicable health and safety laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements. Confined space entry, if any, will comply with OSHA requirements and industry standards and will address potential risks. The parties performing the remedial construction work will ensure that performance of work is in compliance with the HASP and applicable laws and regulations. The HASP pertains to remedial and invasive work performed at the Site until the issuance of the Notice of Completion.

All field personnel involved in remedial activities will participate in training required under 29 CFR 1910.120, including 40-hour hazardous waste operator training and annual 8-hour refresher training. Site Safety Officer will be responsible for maintaining workers training records.

Personnel entering any exclusion zone will be trained in the provisions of the HASP and be required to sign an HASP acknowledgment. Site-specific training will be provided to field personnel. Additional safety training may be added depending on the tasks performed. Emergency telephone numbers will be posted at the site location before any remedial work begins. A safety meeting will be conducted before each shift begins. Topics to be discussed include task hazards and protective measures (physical, chemical, environmental); emergency procedures; PPE levels and other relevant safety topics. Meetings will be documented in a log book or specific form.

An emergency contact sheet with names and phone numbers is included in the HASP. That document will define the specific project contacts for use in case of emergency.

5.5 COMMUNITY AIR MONITORING PLAN

Real-time air monitoring for volatile organic compounds (VOCs) and particulate levels at the perimeter of the exclusion zone or work area will be performed. Continuous monitoring will be performed for all ground intrusive activities and during the handling of contaminated or potentially contaminated media. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pit excavation or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be performed during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. Periodic monitoring during sample collection, for instance, will consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. Depending upon the proximity of potentially exposed individuals, continuous monitoring may be performed during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence. Exceedences of action levels observed during performance of the Community Air Monitoring Plan (CAMP) will be reported to the OER Project Manager and included in the Daily Report.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis during invasive work. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shutdown.

All 15-minute readings must be recorded and be available for OER personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate

monitoring will be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment will be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work will continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed $150 \text{ mcg}/\text{m}^3$ above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than $150 \text{ mcg}/\text{m}^3$ above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within $150 \text{ mcg}/\text{m}^3$ of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for OER personnel to review.

5.6 AGENCY APPROVALS

All permits or government approvals required for remedial construction have been or will be obtained prior to the start of remedial construction. Approval of this RAWP by OER does not constitute satisfaction of these requirements and will not be a substitute for any required permit.

5.7 SITE PREPARATION

Pre-Construction Meeting

OER will be invited to attend the pre-construction meeting at the Site with all parties involved in the remedial process prior to the start of remedial construction activities.

Mobilization

Mobilization will be conducted as necessary for each phase of work at the Site. Mobilization includes field personnel orientation, equipment mobilization (including securing all sampling equipment needed for the field investigation), marking/staking sampling locations and utility mark-outs. Each field team member will attend an orientation meeting to become familiar with the general operation of the Site, health and safety requirements, and field procedures.

Utility Marker Layouts, Easement Layouts

The presence of utilities and easements on the Site will be fully investigated prior to the performance of invasive work such as excavation or drilling under this plan by using, at a minimum, the One-Call System (811). Underground utilities may pose an electrocution, explosion, or other hazard during excavation or drilling activities. All invasive activities will be performed in compliance with applicable laws and regulations to assure safety. Utility companies and other responsible authorities will be contacted to locate and mark the locations, and a copy of the Markout Ticket will be retained by the contractor prior to the start of drilling, excavation or other invasive subsurface operations. Overhead utilities may also be present within the anticipated work zones. Electrical hazards associated with drilling in the vicinity of overhead utilities will be prevented by maintaining a safe distance between overhead power lines and drill rig masts.

Proper safety and protective measures pertaining to utilities and easements, and compliance with all laws and regulations will be employed during invasive and other work contemplated under this RAWP. The integrity and safety of on-Site and off-Site structures will be maintained during all invasive, excavation or other remedial activity performed under the RAWP.

Equipment and Material Staging

Equipment and materials will be stored and staged in a manner that complies with applicable laws and regulations. Staging locations will be reported to OER prior to the start of the remedial action.

Stabilized Construction Entrance

Steps will be taken to ensure that trucks departing the site will not track soil, fill or debris off-Site. Such actions may include use of cleaned asphalt or concrete roads or use of stone or other aggregate-based egress paths between the truck inspection station and the property exit. Measures will be taken to ensure that adjacent roadways will be kept clean of project related soils, fill and debris.

Truck Inspection Station

An outbound-truck inspection station will be set up close to the Site exit. Before exiting the NYC VCP Site, trucks will be required to stop at the truck inspection station and will be examined for evidence of contaminated soil on the undercarriage, body, and wheels. Soil and debris will be removed. Brooms, shovels and potable water will be utilized for the removal of soil from vehicles and equipment, as necessary.

5.8 TRAFFIC CONTROL

Drivers of trucks leaving the NYC VCP Site with soil/fill will be instructed to proceed without stopping in the vicinity of the site to prevent neighborhood impacts. The planned route on local roads for trucks leaving the site will be reported to OER prior to the start of the remedial action.

5.9 DEMOBILIZATION

Demobilization will include:

- As necessary, restoration of temporary access areas and areas that may have been disturbed to accommodate support areas (e.g., staging areas, decontamination areas, storage areas, temporary water management areas, and access area);
- Removal of sediment from erosion control measures and truck wash and disposal of materials in accordance with applicable laws and regulations;
- Equipment decontamination, and;
- General refuse disposal.

Equipment will be decontaminated and demobilized at the completion of all field activities. Investigation equipment and large equipment (*e.g.*, soil excavators) will be washed at the truck inspection station as necessary. In addition, all investigation and remediation derived waste will be appropriately disposed.

5.10 REPORTING AND RECORD KEEPING

Daily Reports

Daily reports providing a general summary of activities for each day of *active remedial work* will be emailed to the OER Project Manager by the end of the following day. Those reports will include:

- Project number and statement of the activities and an update of progress made and locations of work performed;
- Quantities of material imported and exported from the Site;
- Status of on-Site soil/fill stockpiles;
- A summary of all citizen complaints, with relevant details (basis of complaint; actions taken; etc.);
- A summary of CAMP excursions, if any; and
- Photograph of notable Site conditions and activities.

The frequency of the reporting period may be revised in consultation with OER project manager based on planned project tasks. Daily email reports are not intended to be the primary mode of communication for notification to OER of emergencies (accidents, spills), requests for changes to the RAWP or other sensitive or time critical information. However, such information will be included in the daily reports. Emergency conditions and changes to the RAWP will be communicated directly to the OER project manager by personal communication. Daily reports will be included as an Appendix in the Remedial Action Report.

Record Keeping and Photo-Documentation

Job-site record keeping for all remedial work will be performed. These records will be maintained on-Site during the project and will be available for inspection by OER staff. Representative photographs will be taken of the Site prior to any remedial activities and during major remedial activities to illustrate remedial program elements and contaminant source areas. Photographs will be submitted at the completion of the project in the RAR in digital format (i.e. jpeg files).

5.11 COMPLAINT MANAGEMENT

All complaints from citizens will be promptly reported to OER. Complaints will be addressed and outcomes will also be reported to OER in daily reports. Notices to OER will include the nature of the complaint, the party providing the complaint, and the actions taken to resolve any problems.

5.12 DEVIATIONS FROM THE REMEDIAL ACTION WORK PLAN

All changes to the RAWP will be reported to the OER Project Manager and will be documented in daily reports and reported in the Remedial Action Report. The process to be followed if there are any deviations from the RAWP will include a request for approval for the change from OER noting the following:

- Reasons for deviating from the approved RAWP;
- Effect of the deviations on overall remedy; and
- Determination that the remedial action with the deviation(s) is protective of public health and the environment.

6.0 REMEDIAL ACTION REPORT

A Remedial Action Report (RAR) will be submitted to OER following implementation of the remedial action defined in this RAWP. The RAR will document that the remedial work required under this RAWP has been completed and has been performed in compliance with this plan. The RAR will include:

- Information required by this RAWP;
- As-built drawings for all constructed remedial elements, required certifications, manifests and other written and photographic documentation of remedial work performed under this remedy;
- Site Management Plan (if Track 1 cleanup is not achieved);
- Description of any changes in the remedial action from the elements provided in this RAWP and associated design documents;
- Tabular summary of all end point sampling results and all material characterization results, QA/QC results for end-point sampling, and other sampling and chemical analysis performed as part of the remedial action and DUSR;
- Test results or other evidence demonstrating that remedial systems are functioning properly;
- Account of the source area locations and characteristics of all contaminated material removed from the Site including a map showing source areas;
- Account of the disposal destination of all contaminated material removed from the Site. Documentation associated with disposal of all material will include transportation and disposal records, and letters approving receipt of the material;
- Account of the origin and required chemical quality testing for material imported onto the Site;
- Recorded Declaration of Covenants and Restrictions;
- Reports and supporting material will be submitted in digital form;

Remedial Action Report Certification

The following certification will appear in front of the Executive Summary of the Remedial Action Report. The certification will include the following statements:

I, _____, am currently a professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the remedial program for the Bluestone Jamaica I, LLC Site (NYC VCP Site number: 13CVCP07xQ).

I, _____, am a qualified Environmental Professional. I had primary direct responsibility for implementation remedial program for the Bluestone Jamaica I, LLC Site (NYC VCP Site number: 13CVCP07xQ).

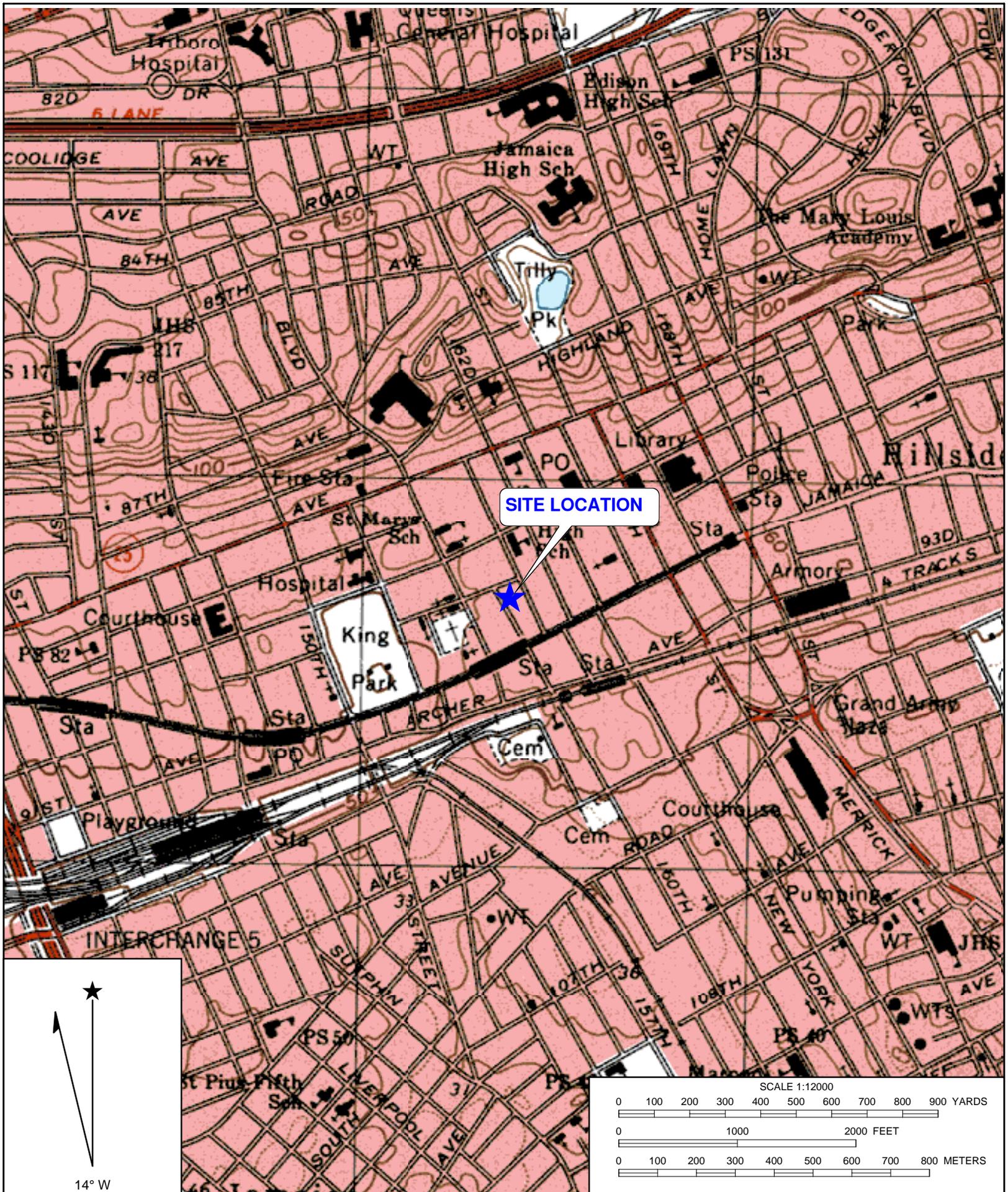
I certify that the OER-approved Remedial Action Work Plan dated month day year and Stipulations in a letter dated month day, year; if any were implemented and that all requirements in those documents have been substantively complied with. I certify that contaminated soil, fill, liquids or other material from the property were taken to facilities licensed to accept this material in full compliance with applicable laws and regulations.

7.0 SCHEDULE

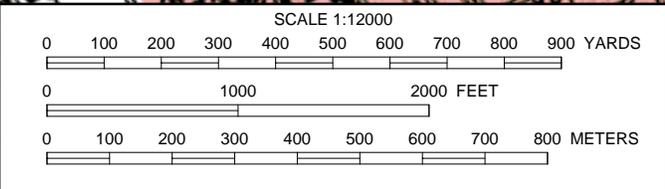
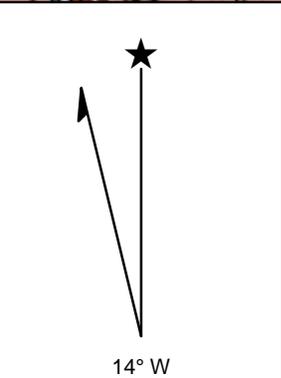
The table below presents a schedule for the proposed remedial action and reporting. If the schedule for remediation and development activities changes, it will be updated and submitted to OER. Currently, a five (5) months remediation period is anticipated.

Schedule Milestone	Weeks from Remedial Action Start	Duration (weeks)
OER Approval of RAWP	0	-
Fact Sheet 2 announcing start of remedy	0	-
Mobilization	1	1
Remedial Excavation	17	16
Demobilization	18	1
Submit Remedial Action Report	26	8

FIGURES

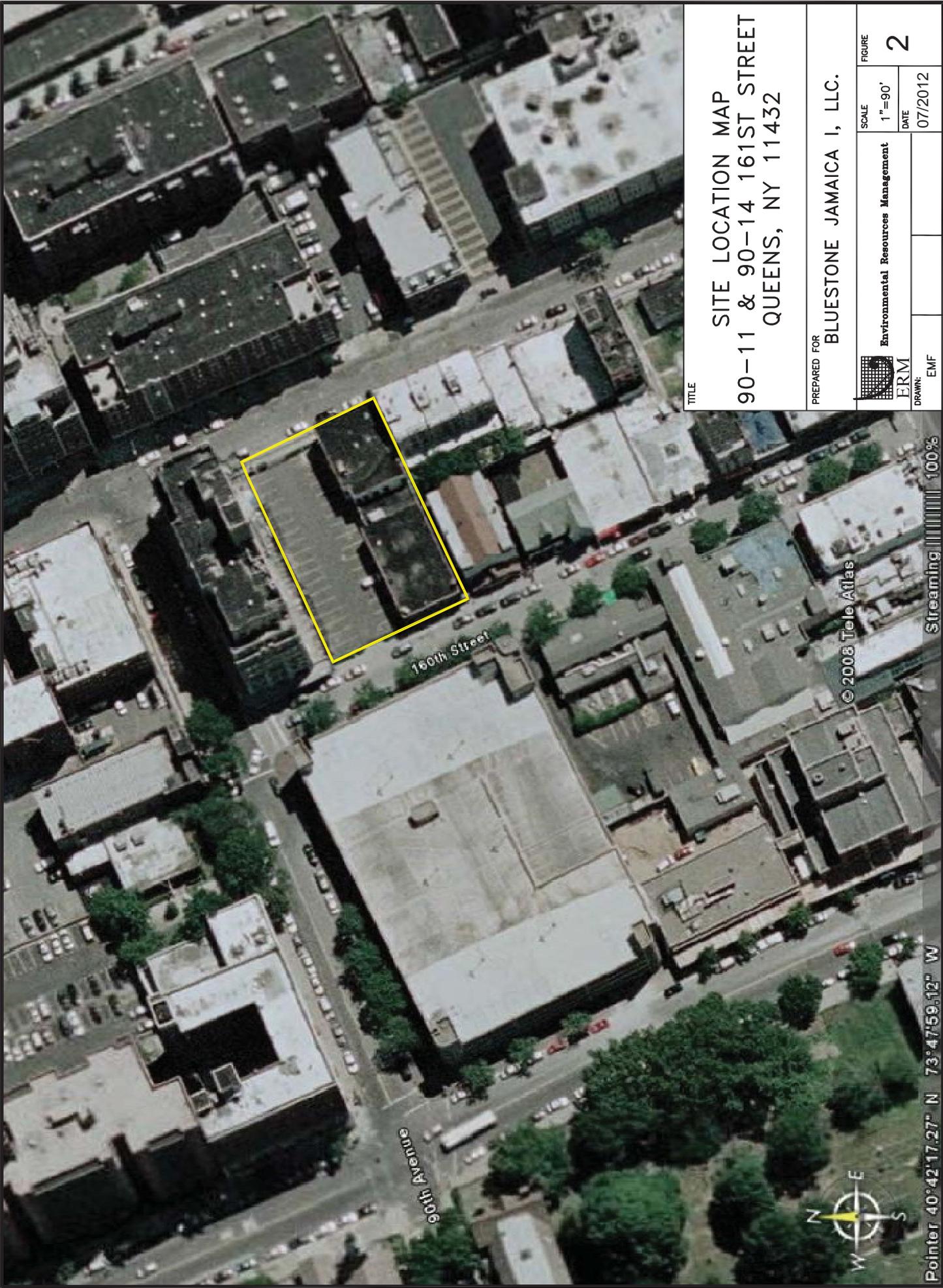


SITE LOCATION



Name: JAMAICA
 Date: 4/24/2008
 Scale: 1 inch equals 1000 feet

Location: 040° 42' 17.11" N 073° 48' 01.93" W
 Caption: Figure 1-Site Location Map
 90-11 to 90-14 161st Street
 Queens, NY 11432



90th Avenue

160th Street



Pointer 40°42'17.27" N 73°47'59.12" W

© 2008 Tele Atlas

Streaming 100%

TITLE

SITE LOCATION MAP
90-11 & 90-14 161ST STREET
QUEENS, NY 11432

PREPARED FOR
BLUESTONE JAMAICA I, LLC.



Environmental Resources Management

DRAWN: EMF

SCALE
1" = 90'

DATE
07/2012

FIGURE

2

161ST STREET MIXED-USE INCLUSIONARY HOUSING DEVELOPMENT

160TH STREET AND 161ST STREET
JAMAICA, QUEENS, NY



DACE SUBMISSION
OCTOBER 25, 2010
REVISED: 3.20.2012

DRAWING INDEX

ARCHITECTURAL	A-000 COVER
	A-001 BUILDING DATA
	A-002 SITE MAP AND PHOTOS
	A-003 ADA NOTES
	A-004 GENERAL NOTES, SYMBOLS & LEGENDS
	A-005 FIRE PROTECTION PLAN
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	A-107 ROOF PLAN
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	A-111 BUILDING 8 ENLARGED UNIT PLANS
	A-201 BUILDING SECTION
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	A-501 KITCHEN DETAILS
	A-502 BATHROOM DETAILS



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161ST STREET MIXED-USE INCLUSIONARY
HOUSING DEVELOPMENT
QUEENS, NY

BLOCK: 9757, LOTS: 18, 20, 22 & 29
ZONE: R7X, C4-5X
PROJECT #1451.00

ARCHITECTS:
GF55 PARTNERS, LLP

OWNER:
BLESTONE JAMAICA I, LLC

SEAL:

ISSUE:
DACE SUBMISSION

DATE:
20 MARCH 2012

REVISION:
08 MARCH 2011
13 JANUARY 2012
20 MARCH 2012

DRAWING:
COVER

SCALE:
NTS

DRAWN BY:

DRAWING NO.:

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OF



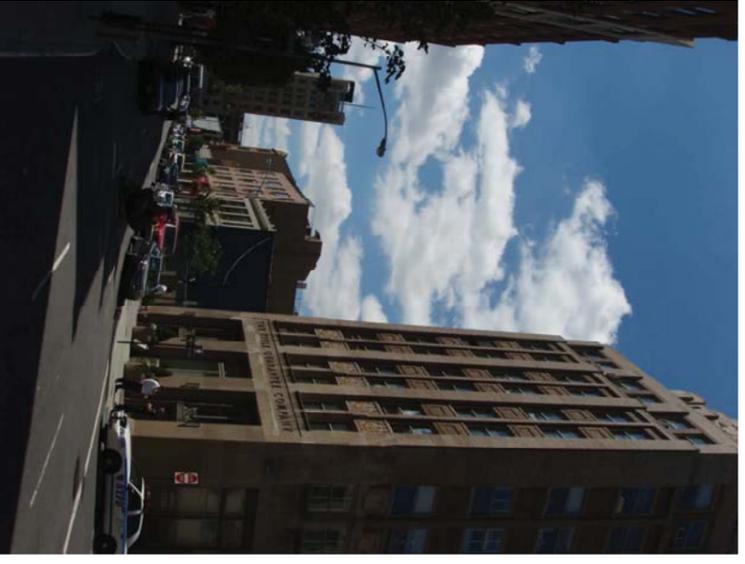
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4



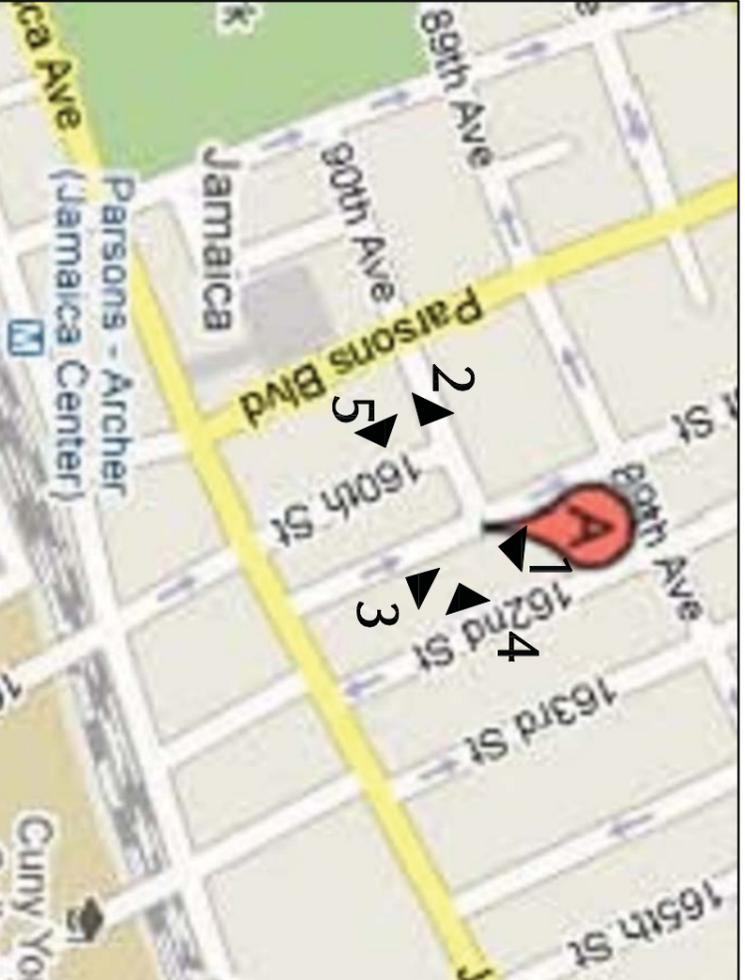
3



2



1



A AREA MAP

161ST STREET MIXED-USE INCLUSIONARY HOUSING DEVELOPMENT
 QUEENS, NY
 BLOCK: 9757, LOTS: 18, 20, 22 & 29
 ZONE: R7X, C4-5X
 PROJECT #1451.00

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OWNER:
 BLUESTONE JAMAICA I, LLC

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DRAWING:
 SITE MAP AND PHOTOS

SCALE:
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QUEENS, NY
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ZONE: R7X, C4-5X
PROJECT #1451.00

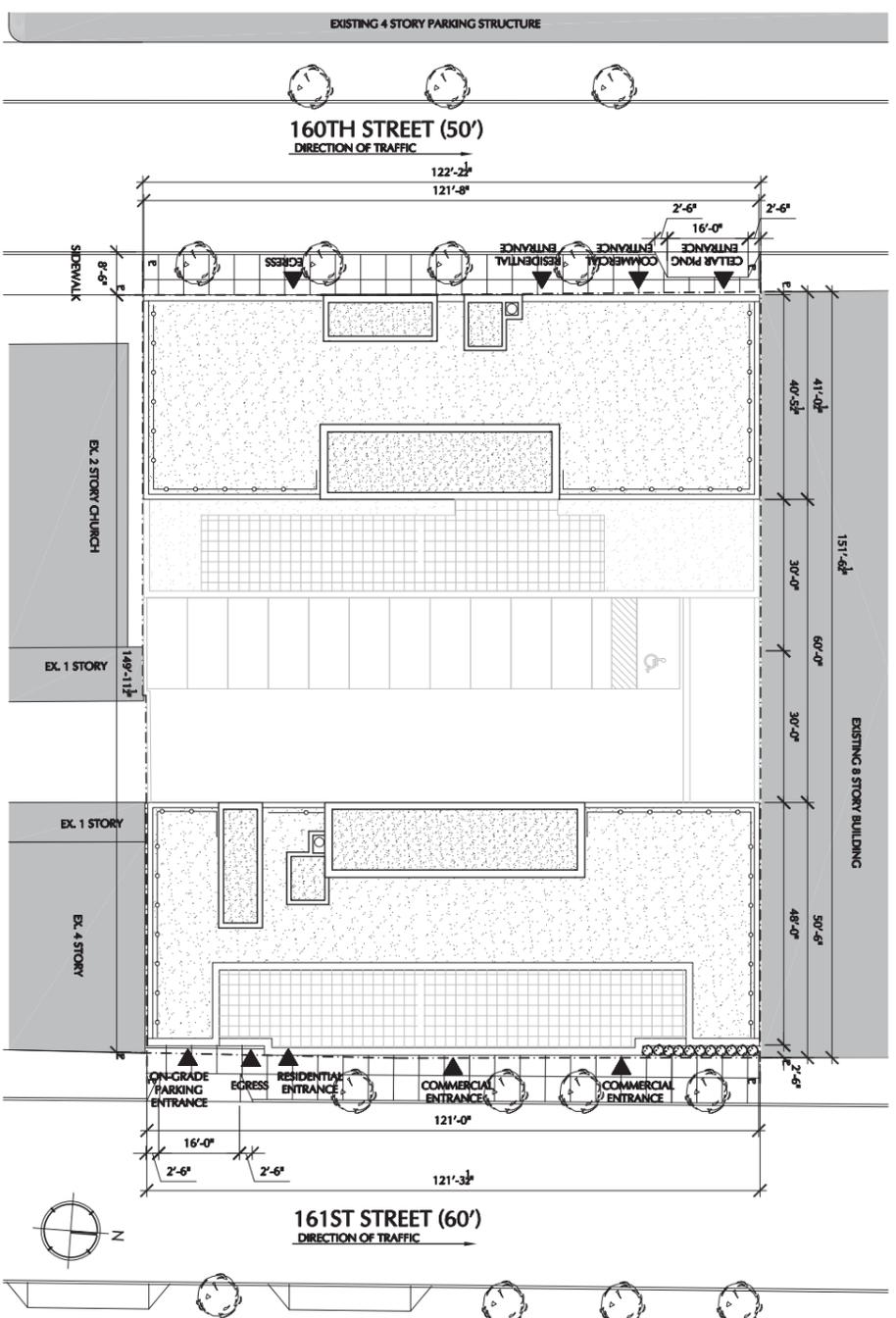
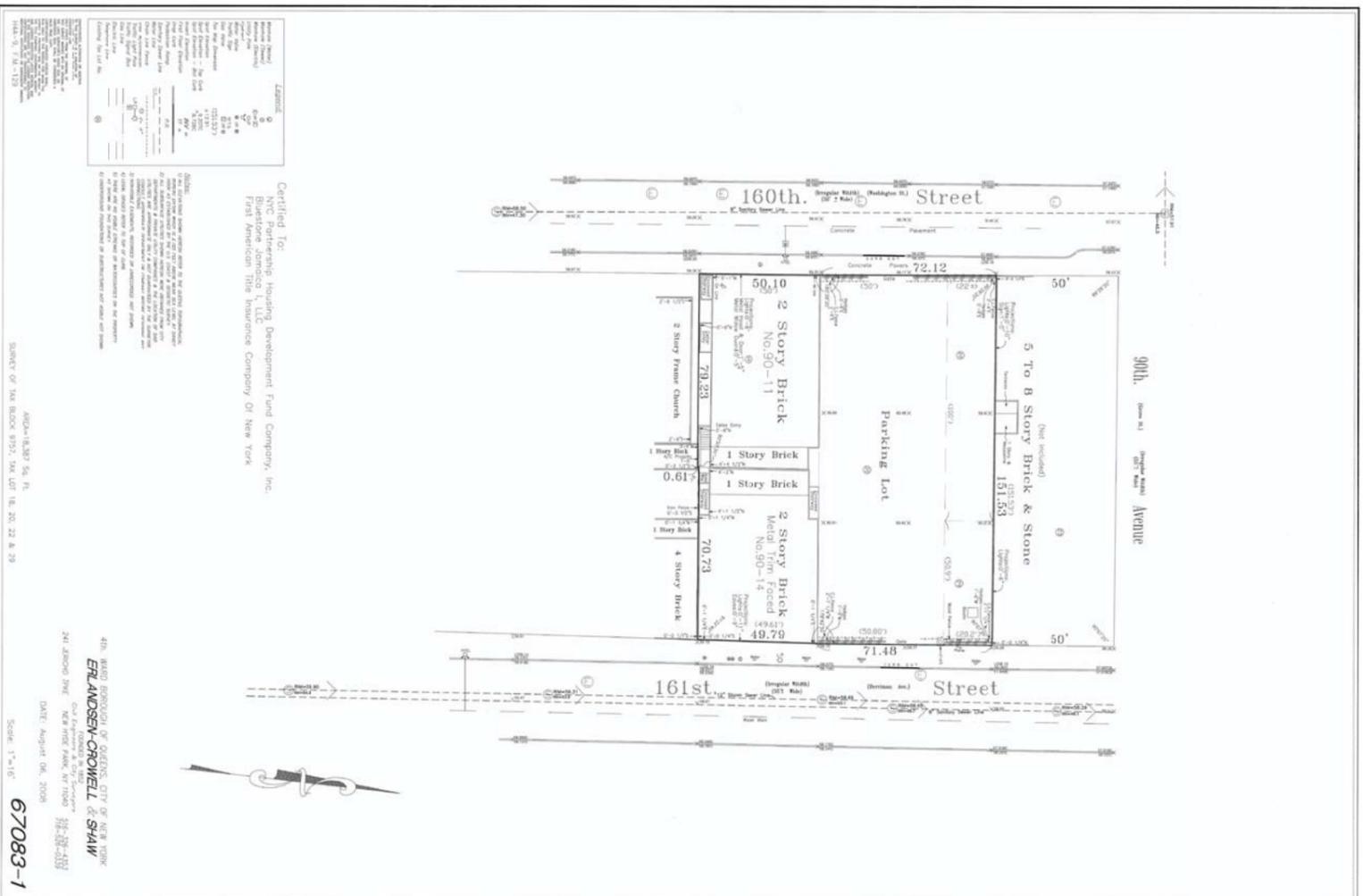
ARCHITECTS:
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OWNER:

BLUESTONE JAMAICA 1, LLC

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SCALE:	AS NOTED
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B SITE SURVEY

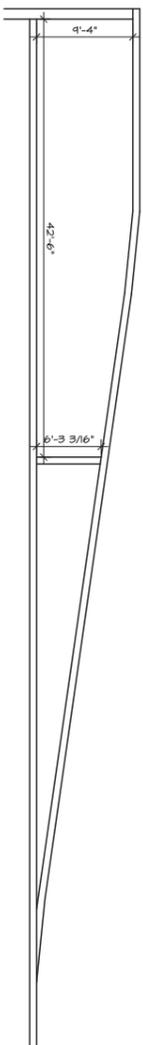
NTS

A SITE PLAN

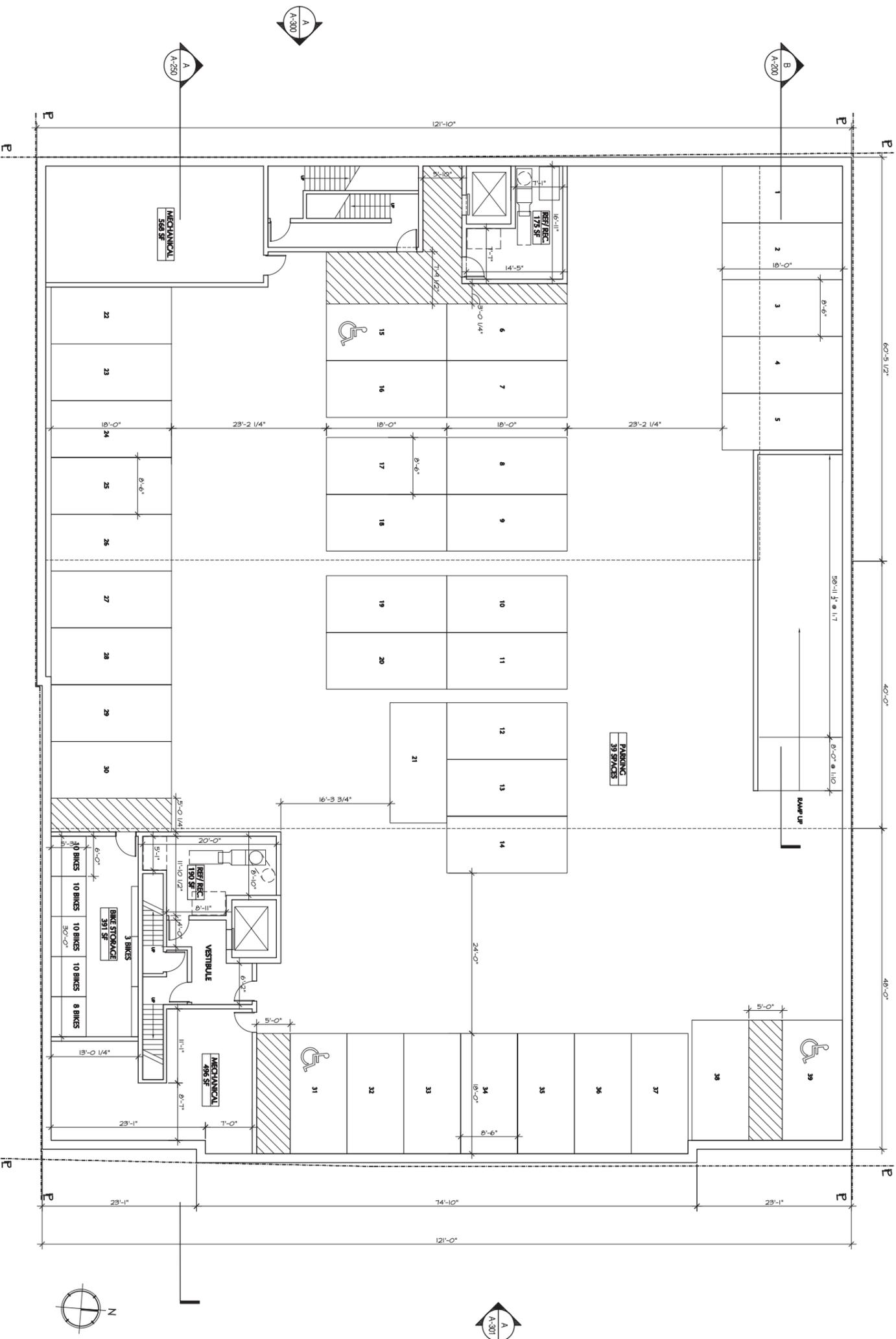
1/6"=1'-0"

A-100.00

OF



B SECTION THROUGH RAMP
1/8"=1'-0"



A CELLAR PLAN
1/8"=1'-0"

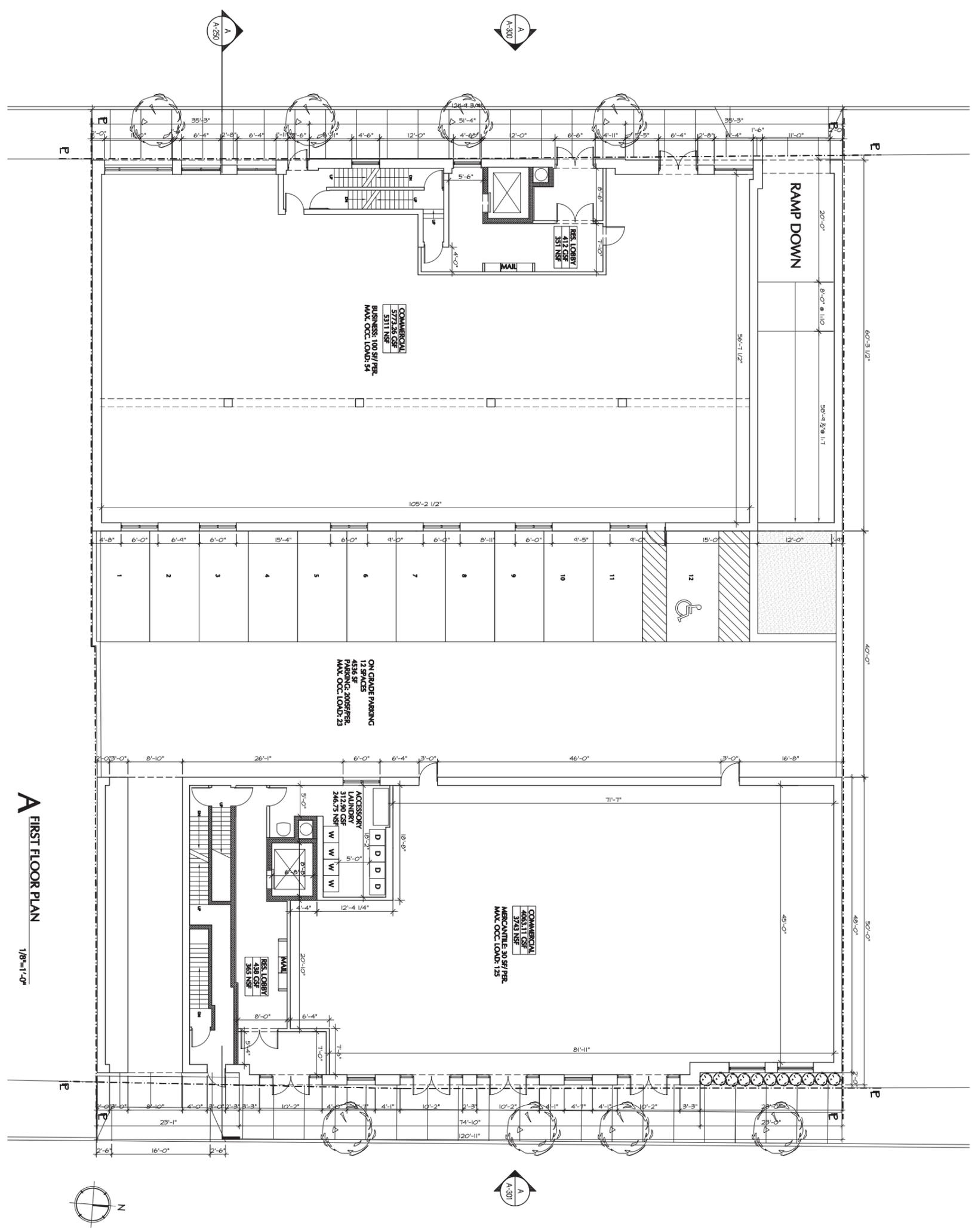
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 GROUP 1 - NON COMBUSTIBLE
 CLASS 1-B (NON-COMBUSTIBLE (2HR))
 BUILDING MATERIAL (NEW CONSTRUCTION):
 FOUNDATION WALL-CONCRETE
 INTERIOR FINISH-EXPOSED CONCRETE TYP. @
 MECHANICAL ROOM, EGRESS STAIR

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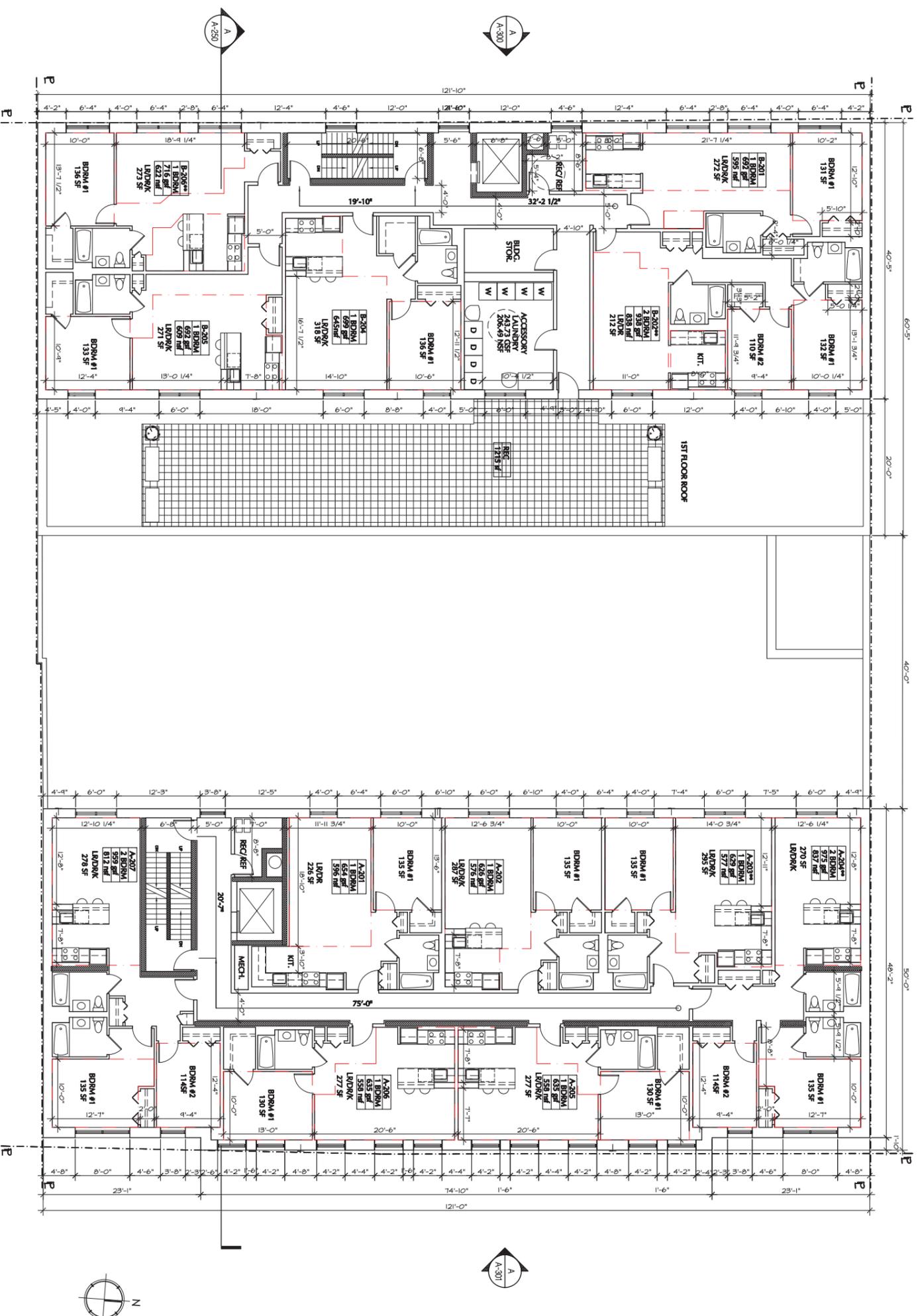
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 20 MARCH 2012
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 DRAWING:
 1ST FLOOR PLAN
 SCALE:
 AS NOTED
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A FIRST FLOOR PLAN
 1/8"=1'-0"

NOTE:
 BUILDING CONSTRUCTION CLASSIFICATION:
 GROUP 1 - NON COMBUSTIBLE
 CLASS 1-B NON-COMBUSTIBLE (2HR)
 BUILDING MATERIAL (NEW CONSTRUCTION):
 FOUNDATION WALL - CONCRETE
 INTERIOR FINISH - EXPOSED CONCRETE TYP. ●
 MECHANICAL ROOM, EGRESS STAIR

NOTE:
 APARTMENT NOTED WITH ** ARE INCLUSIONARY UNITS
 BUILDING "A" INCLUSIONARY UNITS:
 A-203, A-204
 BUILDING "B" INCLUSIONARY UNITS
 B206
 SUPERS' UNIT: B202



161ST STREET MIXED-USE INCLUSIONARY HOUSING DEVELOPMENT
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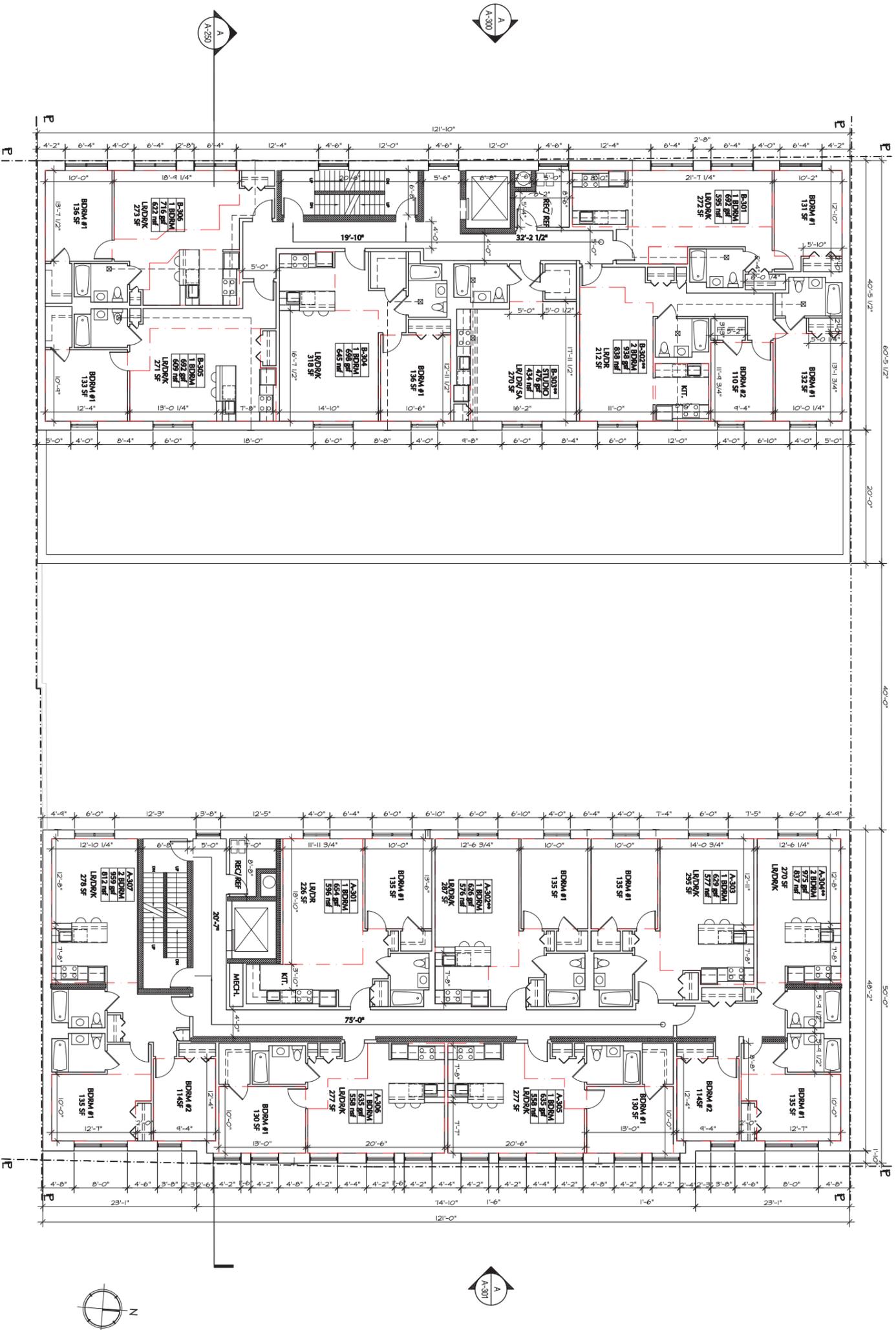
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 2ND FLOOR PLAN
 SCALE:
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A SECOND FLOOR PLAN
 1/8"=1'-0"



NOTE:
 APARTMENT NOTED WITH ** ARE INCLUSIONARY UNITS

BUILDING "A" INCLUSIONARY UNITS:
 A-302, A-304

BUILDING "B" INCLUSIONARY UNITS:
 B-302, B-303

NOTE:
 BUILDING CONSTRUCTION CLASSIFICATION:
 GROUP 1 - NON COMBUSTIBLE
 CLASS 1-B NON-COMBUSTIBLE (2HR)
 BUILDING MATERIAL (NEW CONSTRUCTION):
 FOUNDATION WALL-CONCRETE
 INTERIOR FINISH-EXPOSED CONCRETE TYP. ●
 MECHANICAL ROOM, EGRESS STAIR

A THIRD FLOOR PLAN
 1/8"=1'-0"

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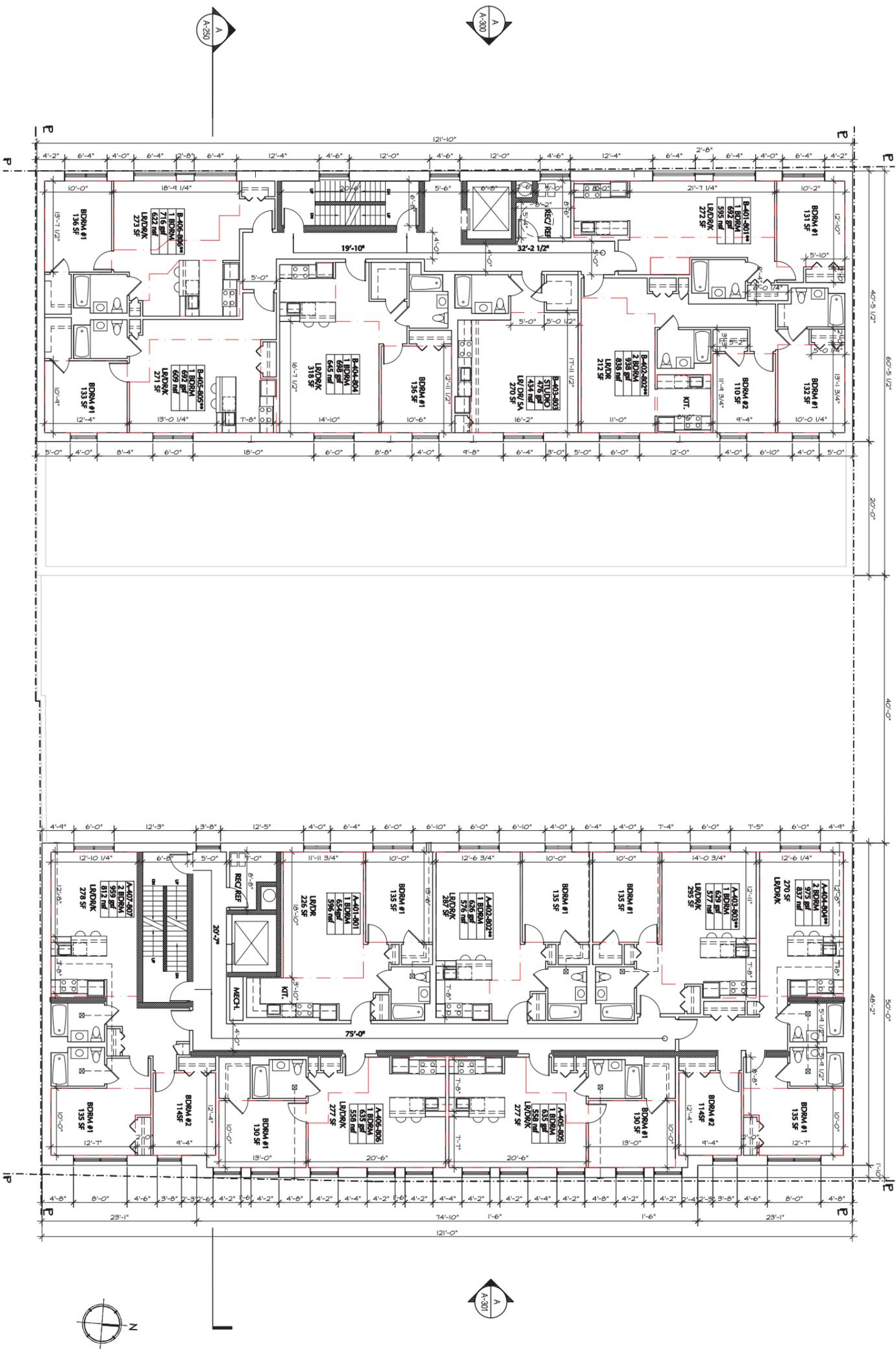
DRAWING:
 3RD FLOOR PLAN

SCALE:
 AS NOTED

DRAWN BY:

DRAWING NO.:

A-104.00
 OF



NOTE:
 APARTMENT NOTED WITH ** ARE INCLUSIONARY UNITS

BUILDING "A" INCLUSIONARY UNITS:
 A-403, A-404
 A-502, A-503
 A-602, A-603
 A-702

BUILDING "B" INCLUSIONARY UNITS
 B-401, B-402
 B-505, B-506
 B-601, B-605

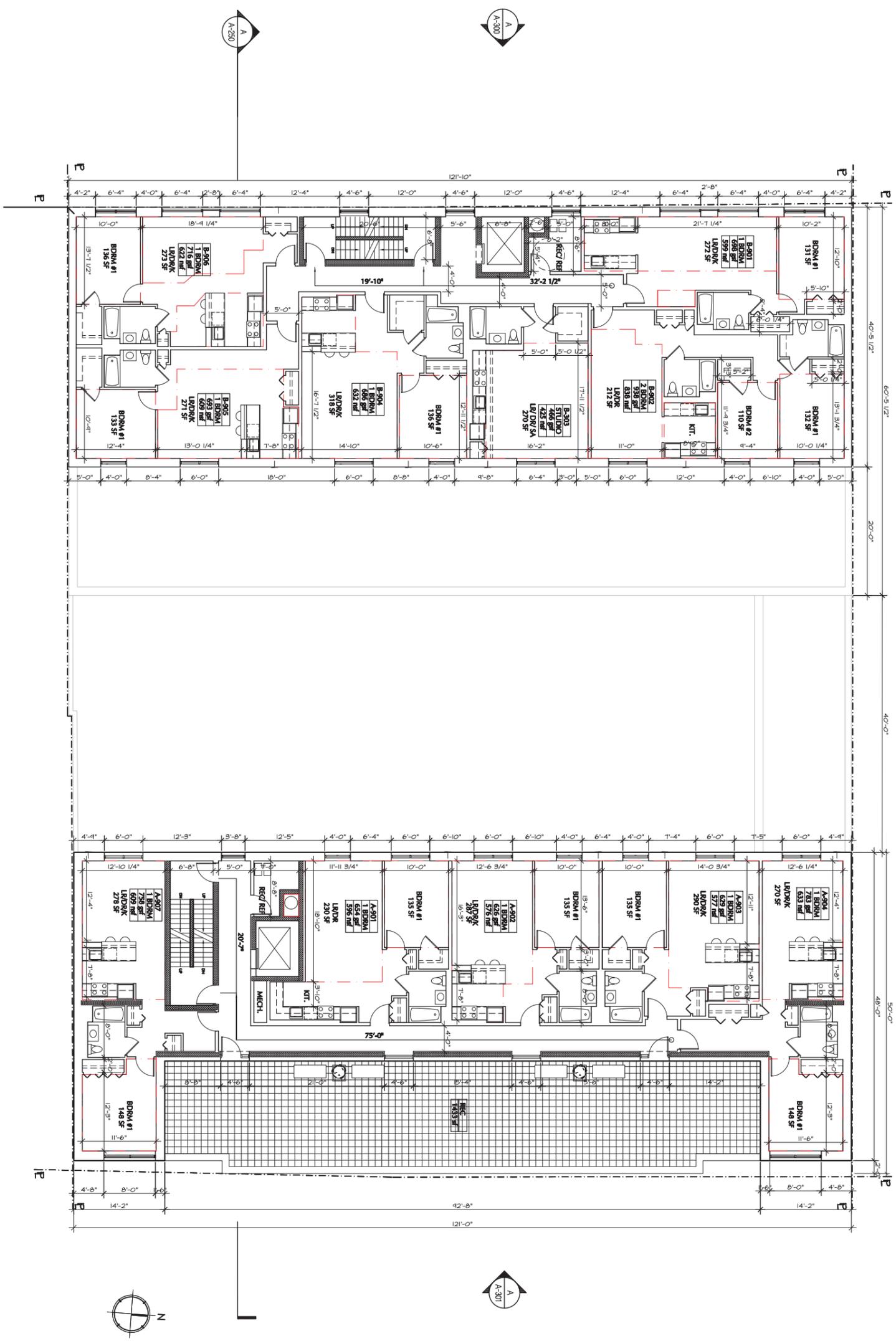
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 CLASS 1-B (NON-COMBUSTIBLE (2HR)
 BUILDING MATERIAL (NEW CONSTRUCTION):
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A 4TH-8TH FLOOR PLAN
 1/8"=1'-0"

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 4TH-8TH FLOOR PLAN
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A NINTH FLOOR PLAN
1/8"=1'-0"

NOTE:
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 CLASS 1-B NON-COMBUSTIBLE (2HR)
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 INTERIOR FINISH- EXPOSED CONCRETE TYP. ●
 MECHANICAL ROOM, EGRESS STAIR

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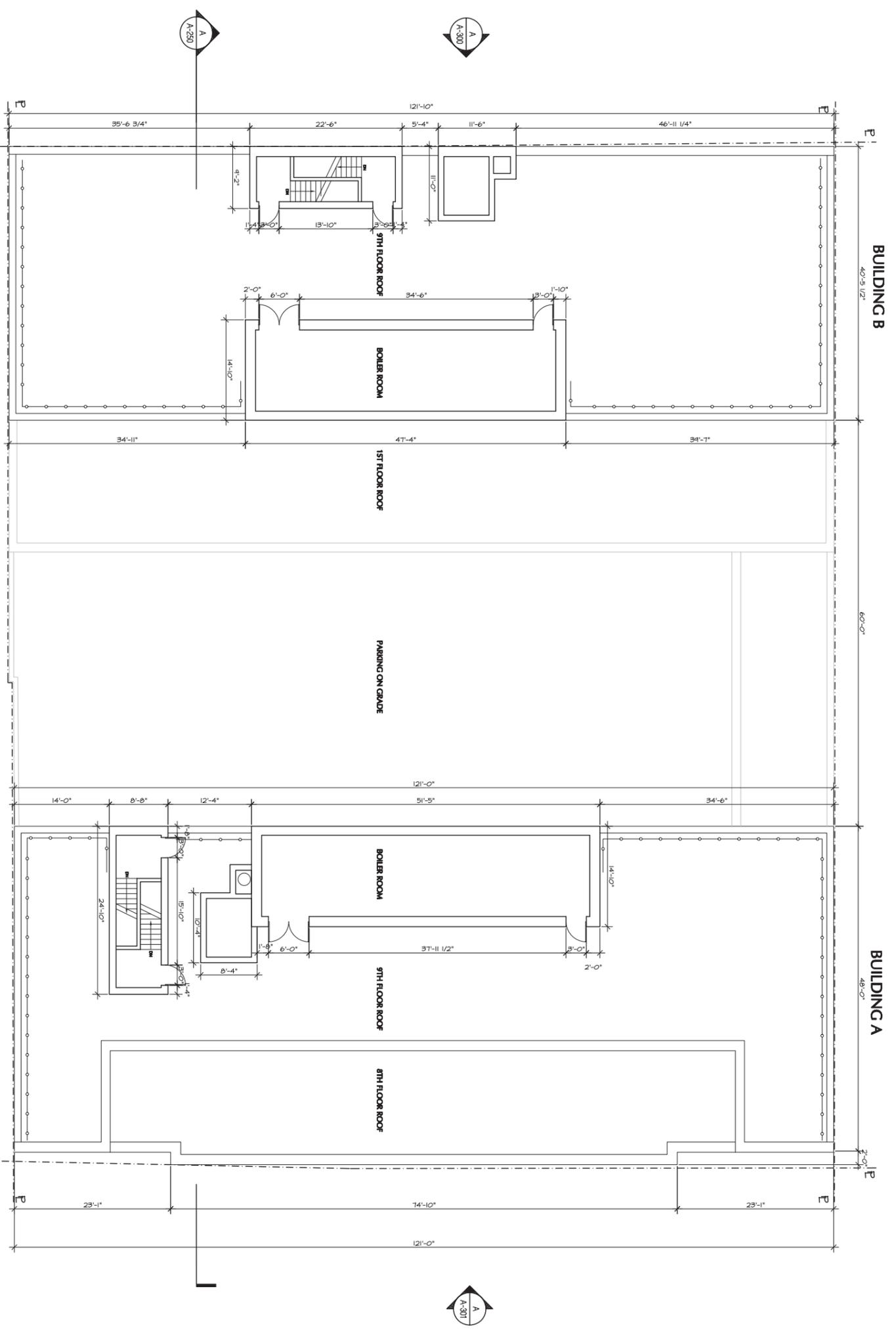
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 9TH FLOOR PLAN
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 CLASS 1-B NON-COMBUSTIBLE (2HR)
 BUILDING MATERIAL (NEW CONSTRUCTION):
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 INTERIOR FINISH-EXPOSED CONCRETE TYP. ●
 MECHANICAL ROOM, EGRESS STAIR

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 ZONE: R7X, C4-5X
 PROJECT #1451.00

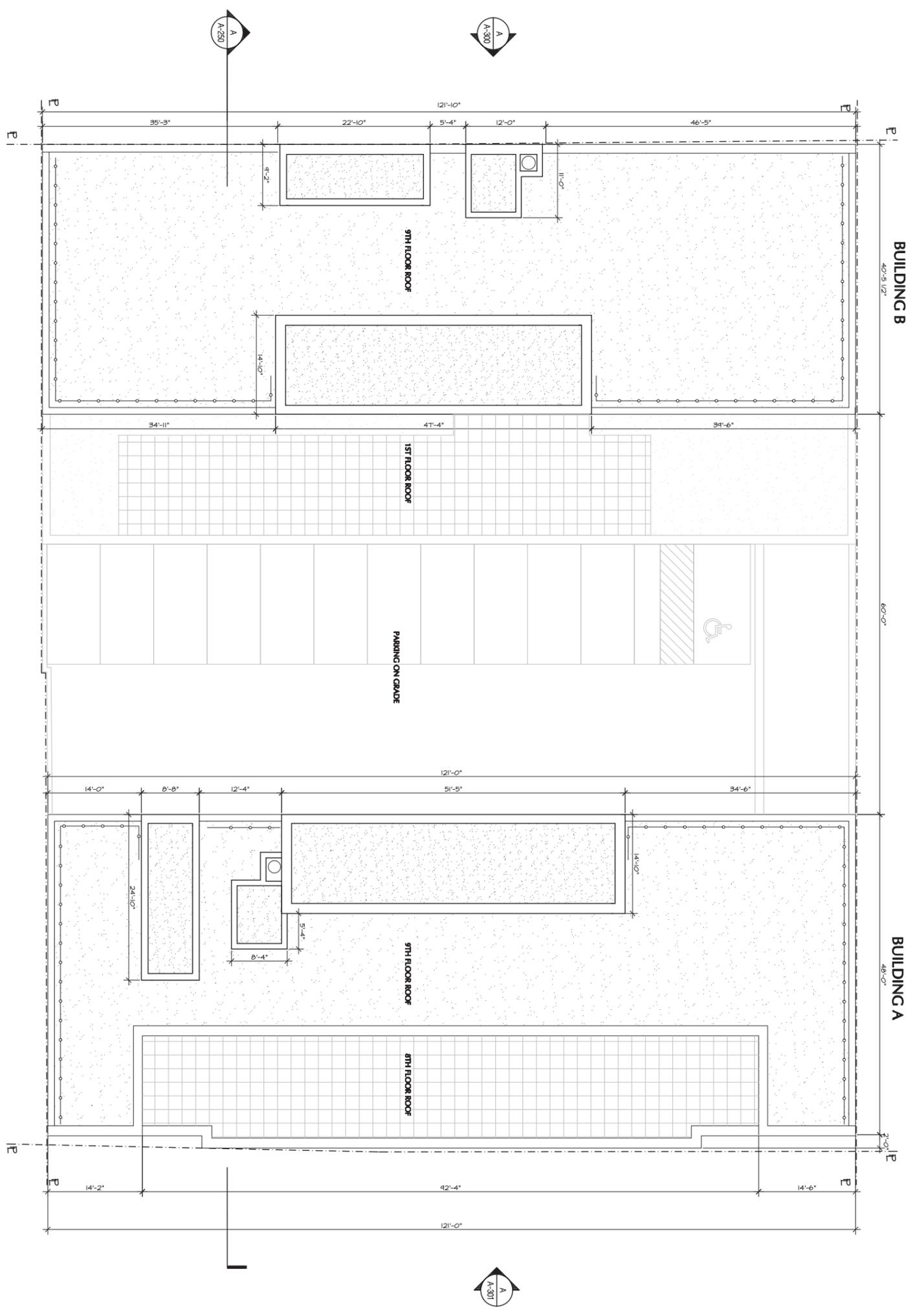


A ROOF PLAN
 1/8"=1'-0"

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 DRAWING:
 ROOF PLAN
 SCALE:
 AS NOTED
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 DRAWING NO.:

NOTE:
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 CLASS 1-B NON-COMBUSTIBLE (2HR)
 BUILDING MATERIAL (NEW CONSTRUCTION):
 FOUNDATION WALL - CONCRETE
 INTERIOR FINISH - EXPOSED CONCRETE TYP. ●
 MECHANICAL ROOM, EGRESS STAIR

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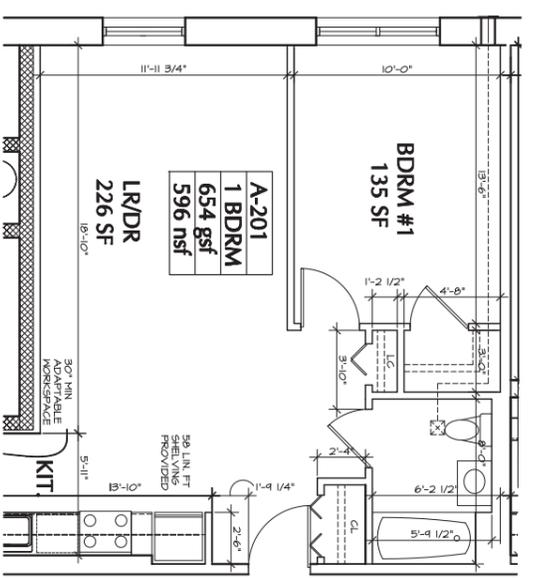
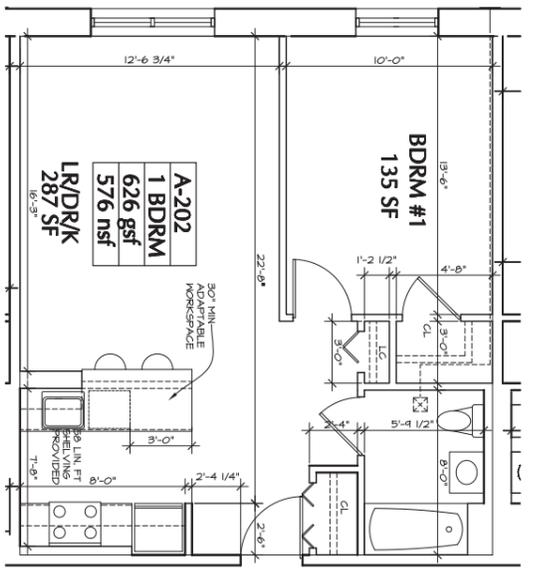
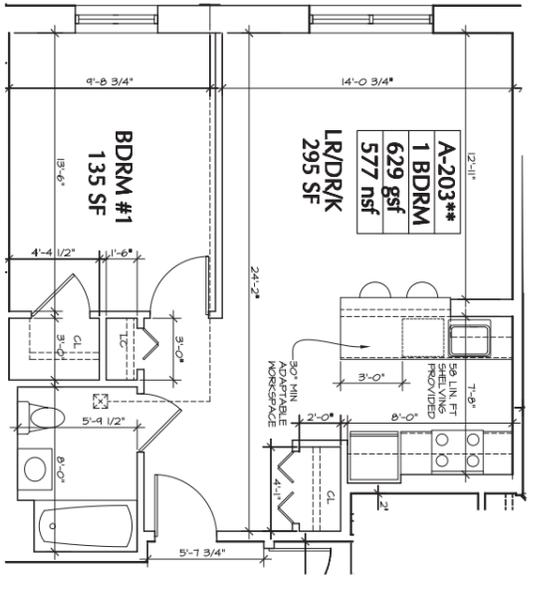
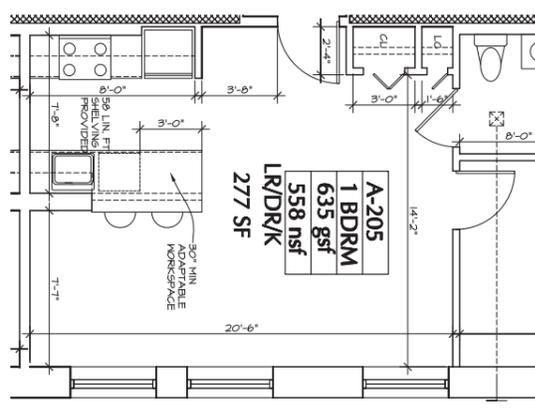
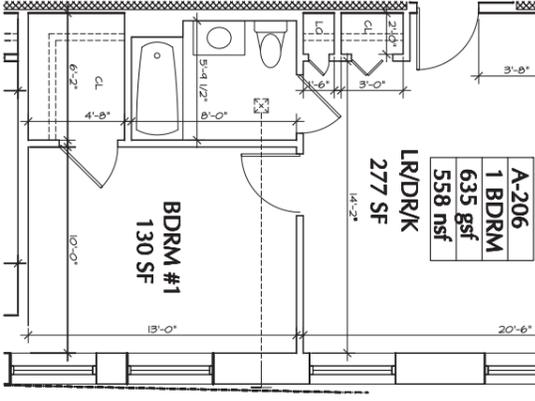
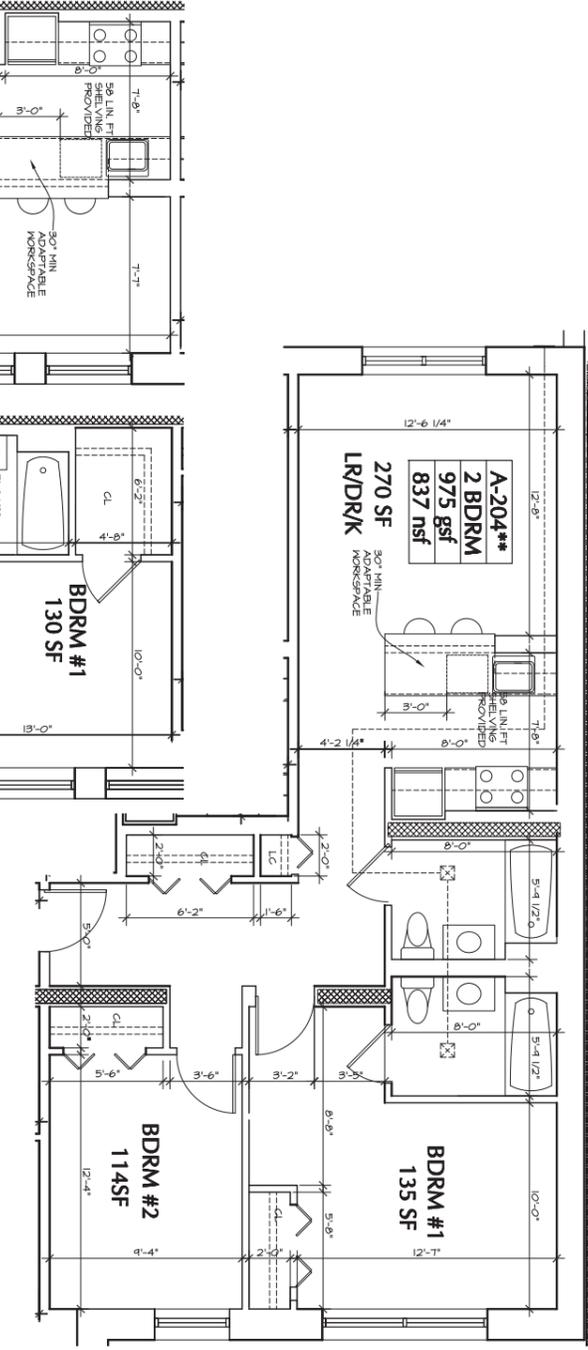
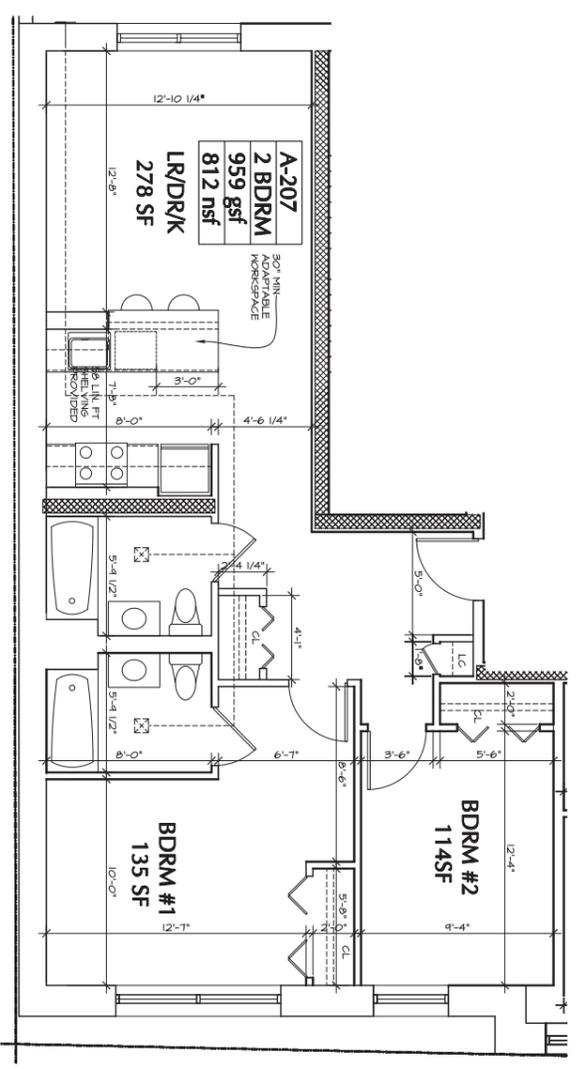
A BULKHEAD PLAN
 1/8"=1'-0"

161ST STREET MIXED-USE INCLUSIONARY HOUSING DEVELOPMENT
 QUEENS, NY
 BLOCK: 9757, LOTS: 18, 20, 22 & 29
 ZONE: R7X, C4-5X
 PROJECT #1451.00

ARCHITECTS:
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 OWNER:
 BLUESTONE JAMAICA I, LLC
 SEAL:

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 20 MARCH 2012
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 BULKHEAD PLAN
 SCALE:
 AS NOTED
 DRAWN BY:
 DRAWING NO.:

ISSUE:	DWG SUBMISSION
DATE:	20 MARCH 2012
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DRAWING:	
SCALE:	BUILDING A ENLARGED UNIT PLANS
DRAWN BY:	AS NOTED
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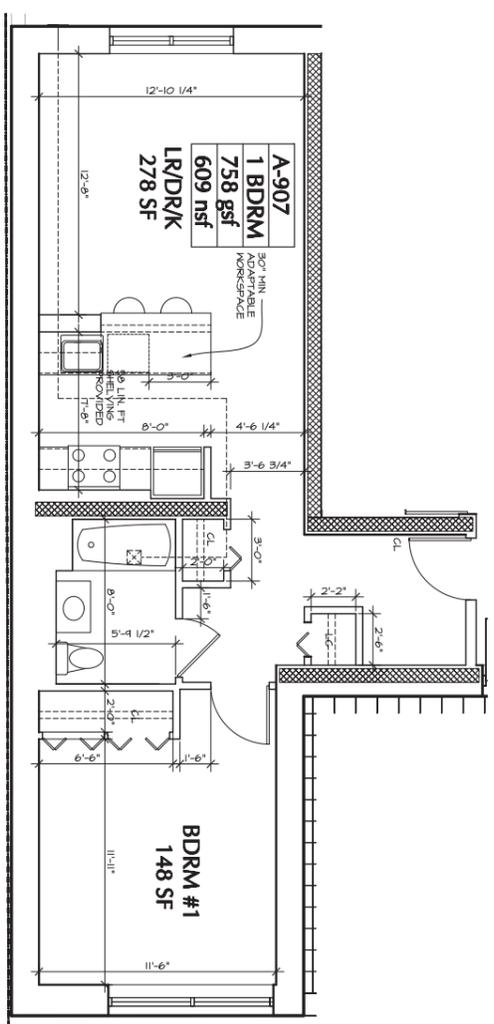
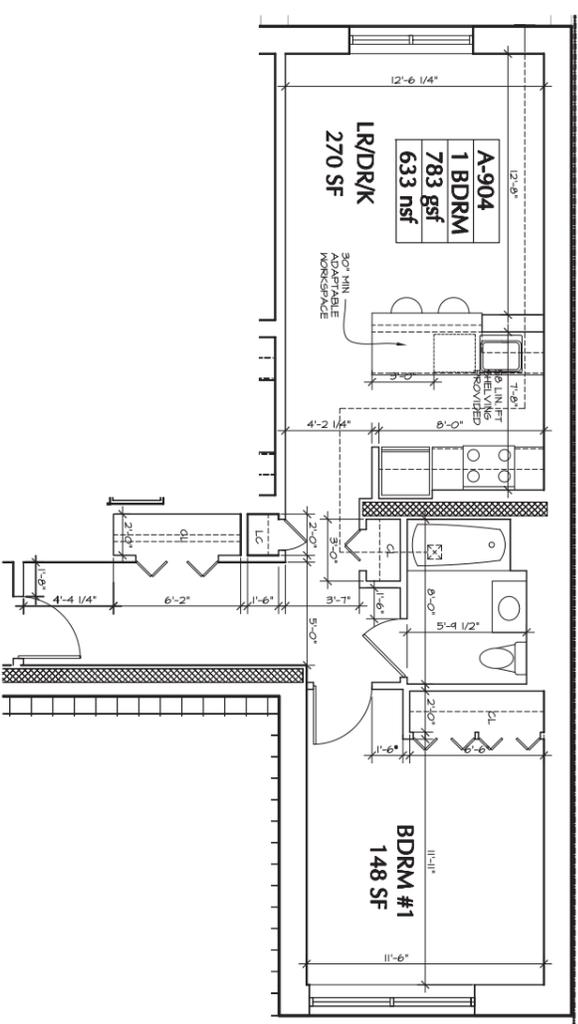
REVISION:
08 MARCH 2011
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DRAWING:

SCALE:
BUILDING A
ENLARGED UNIT PLANS
DRAWN BY:
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A-110.00

OF



**161ST STREET MIXED-USE INCLUSIONARY HOUSING DEVELOPMENT
QUEENS, NY**

**BLOCK: 9757, LOTS: 18, 20, 22 & 29
ZONE: R7X, C4-5X
PROJECT #1451.00**

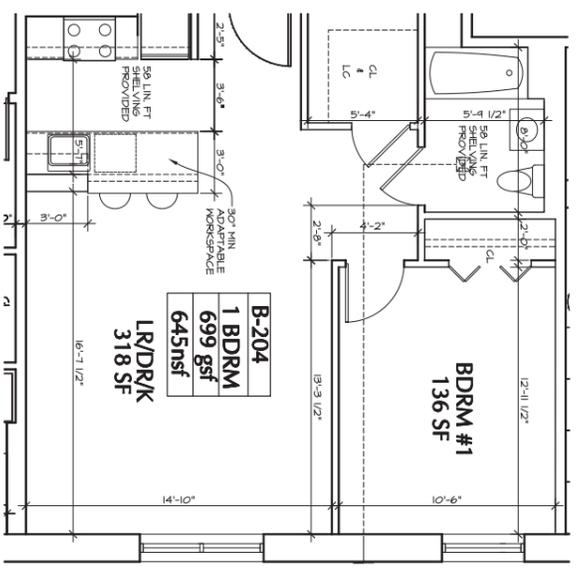
ARCHITECTS:
GFSS PARTNERS, LLP

OWNER:
BLUESTONE JAMAICA I, LLC

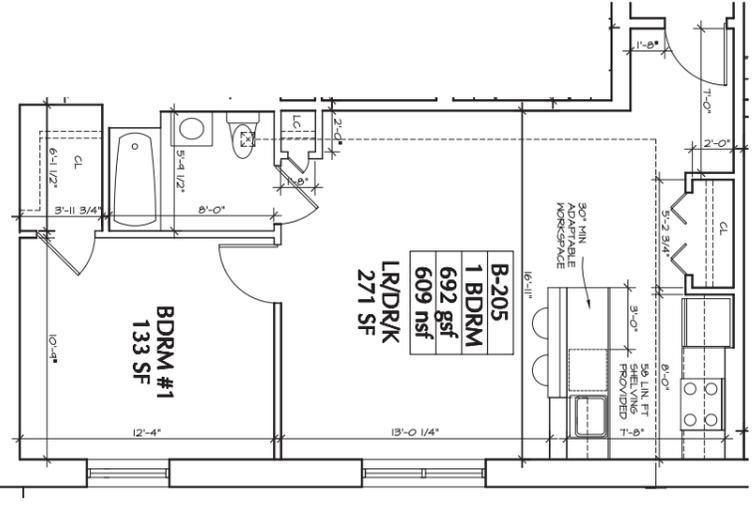
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DATE:
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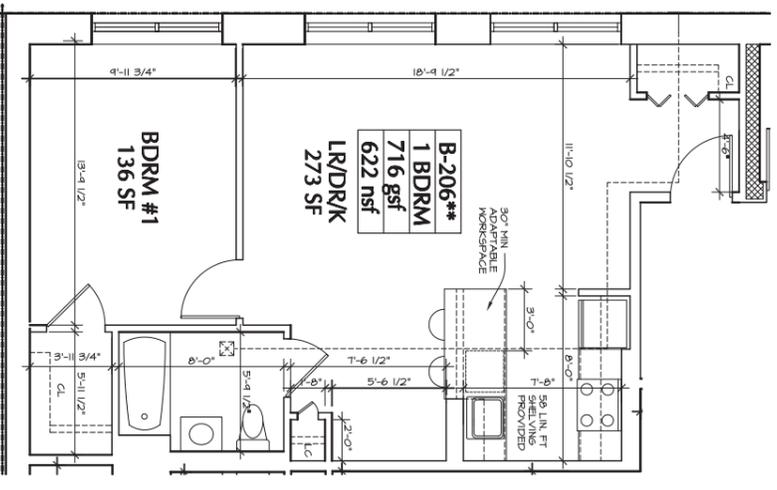
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BUILDING B
ENLARGED UNIT PLANS
SCALE:
DRAWN BY:
AS NOTED
DRAWING NO.:



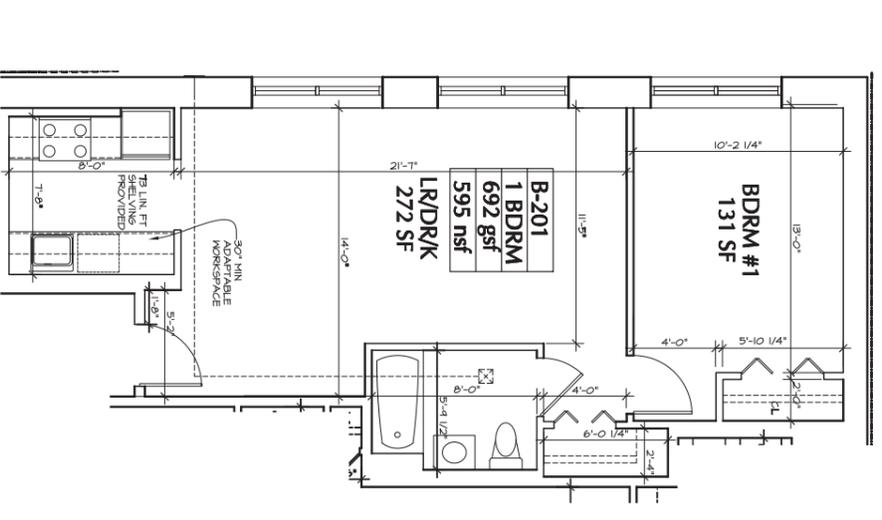
D 1 BEDROOM UNIT (B-204 - B-904)
659 G.S.F. 606 N.S.F. 1/4" = 1'-0"



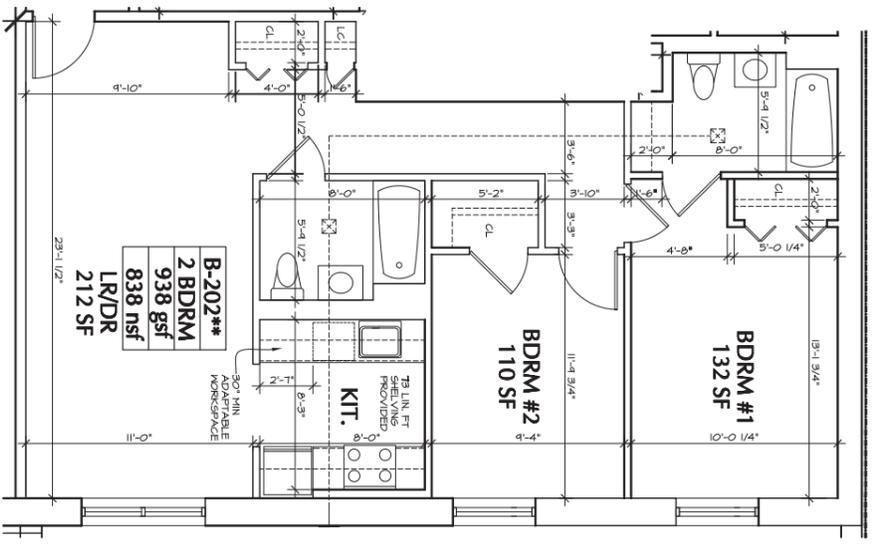
E 1 BEDROOM UNIT (B-205 - B-905)
693 G.S.F. 609 N.S.F. 1/4" = 1'-0"



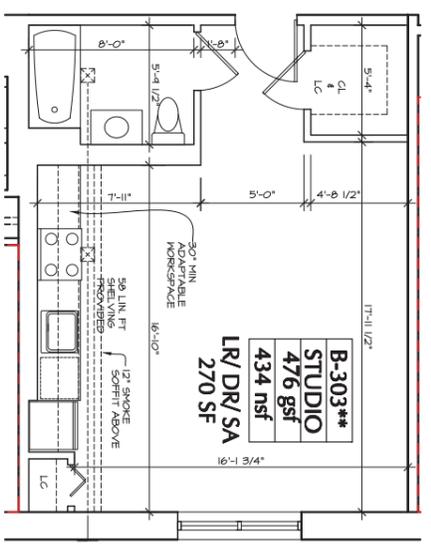
F 1 BEDROOM UNIT (B-206 - B-906)
722 G.S.F. 634 N.S.F. 1/4" = 1'-0"



A 1 BEDROOM UNIT (B-201 - B-901)
691 G.S.F. 604 N.S.F. 1/4" = 1'-0"



B 2 BEDROOM UNIT (B-202 - B-902)
938 G.S.F. 838 N.S.F. 1/4" = 1'-0"



C STUDIO UNIT (B-303 - B-903)
466 G.S.F. 425 N.S.F. 1/4" = 1'-0"

**161ST STREET MIXED-USE INCLUSIONARY
HOUSING DEVELOPMENT
QUEENS, NY**
BLOCK: 9757, LOTS: 18, 20, 22 & 29
ZONE: R7X, C4-5X
PROJECT #1451.00

ARCHITECTS:
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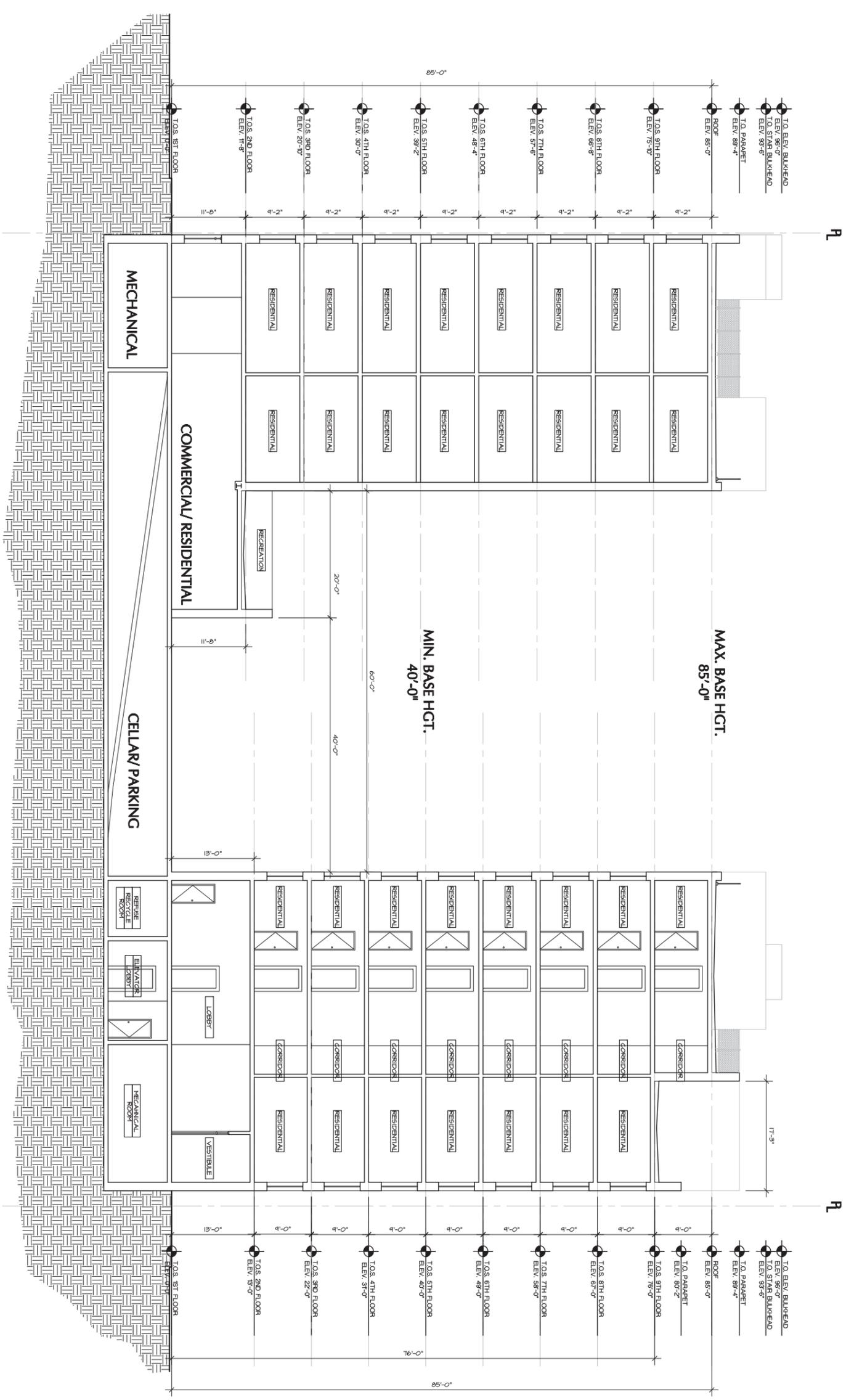
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DATE:
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08 MARCH 2011
13 JANUARY 2012
20 MARCH 2012

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BUILDING SECTION
SCALE:
AS NOTED
DRAWN BY:
DRAWING NO.:

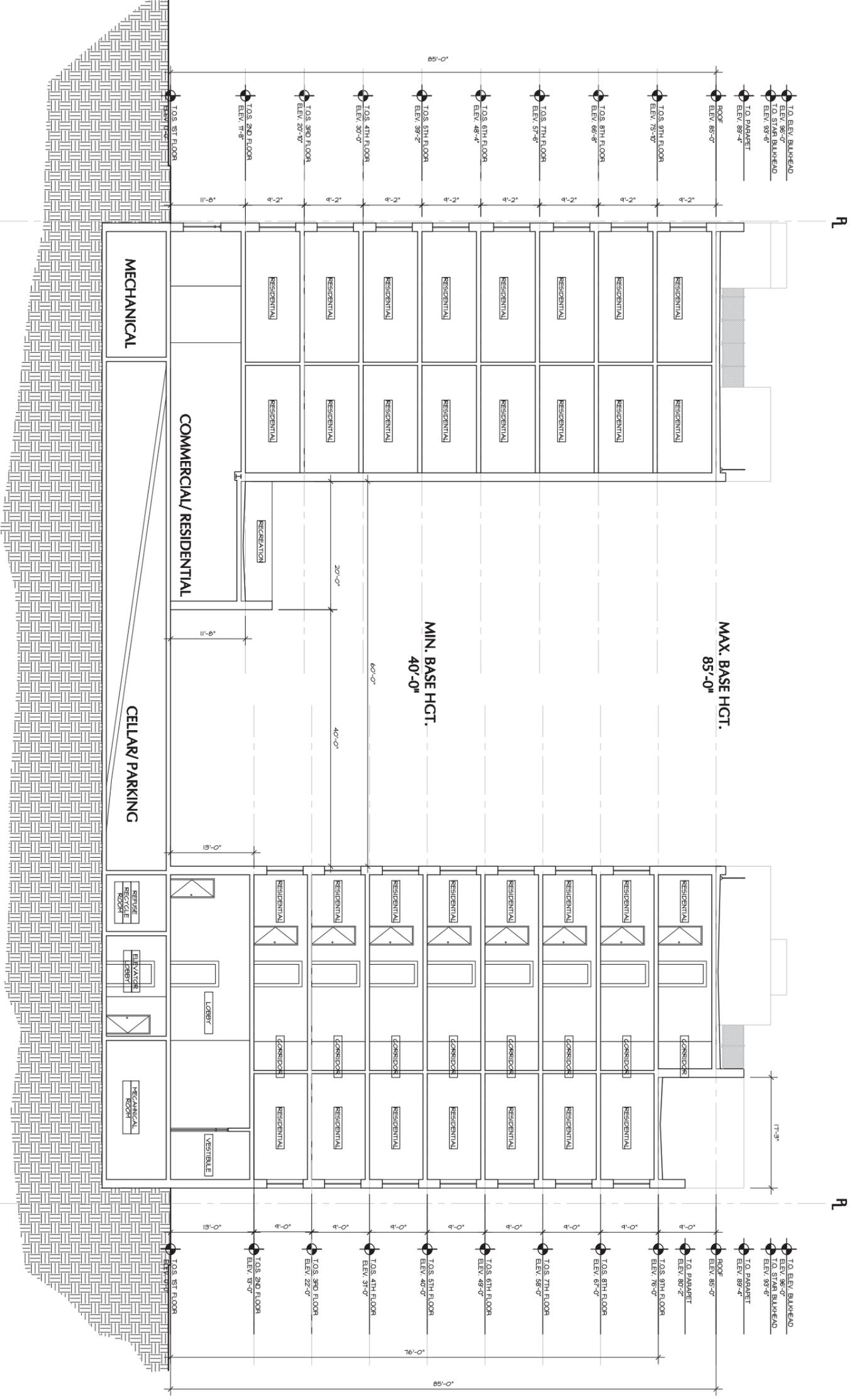
A-201.00
OF



A BUILDING SECTION
1/8"=1'-0"

161ST STREET MIXED-USE INCLUSIONARY HOUSING DEVELOPMENT QUEENS, NY

BLOCK: 9757, LOTS: 18, 20, 22 & 29
 PROJECT #1451.00



A BUILDING SECTION
 1/8"=1'-0"



DRAWING
 BUILDING SECTION

SEAL AND SIGNATURE

DATE

PROJECT NO.

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CADD FILE NO. 18 OF 21



DEVELOPER
 BLUESTONE IMMAACA 1, LLC

STRUCTURAL ENGINEER
 MURRAY ENGINEERING, PC

MECHANICAL ENGINEER
 RODKIN CARDINALE CONSULTING ENGINEERS

OWNER
 BLUESTONE IMMAACA 1, LLC

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SCALE
 1/8"=1'-0"

DOB

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ZONE: R7X, C4-5X
PROJECT #1451.00

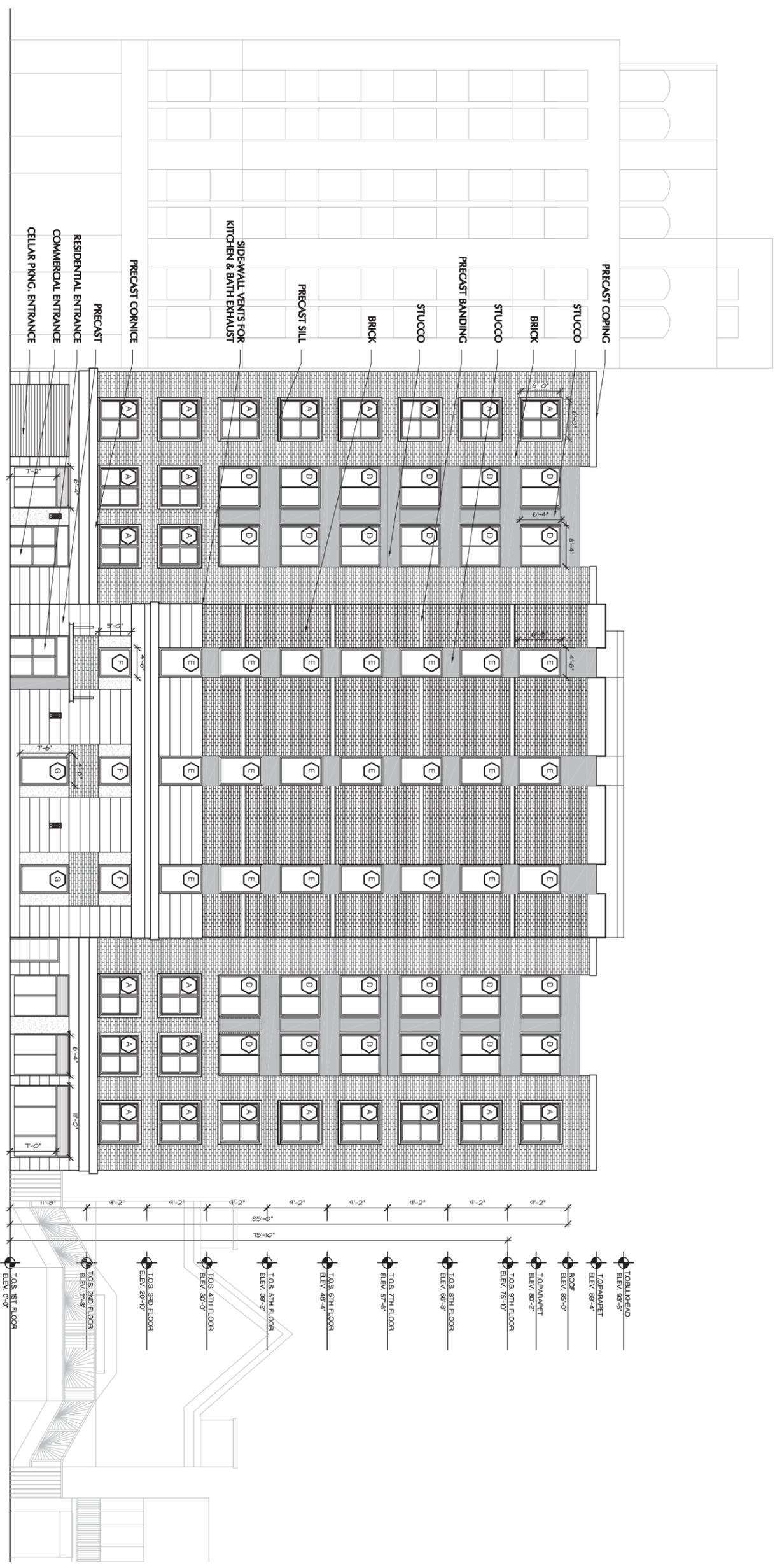
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GFSS PARTNERS, LLP

OWNER:
BLUESTONE JAMAICA I, LLC

SEAL:
ISSUE:
DATE SUBMISSION
DATE:
20 MARCH 2012

REVISION:
08 MARCH 2011
13 JANUARY 2012
20 MARCH 2012

DRAWING:
160TH STREET ELEVATION
SCALE:
AS NOTED
DRAWN BY:
DRAWING NO.:



A 160TH STREET ELEVATION
1/8"=1'-0"

161ST STREET MIXED-USE INCLUSIONARY HOUSING DEVELOPMENT
QUEENS, NY
BLOCK: 9757, LOTS: 18, 20, 22 & 29
ZONE: R7X, C4-5X
PROJECT #1451.00

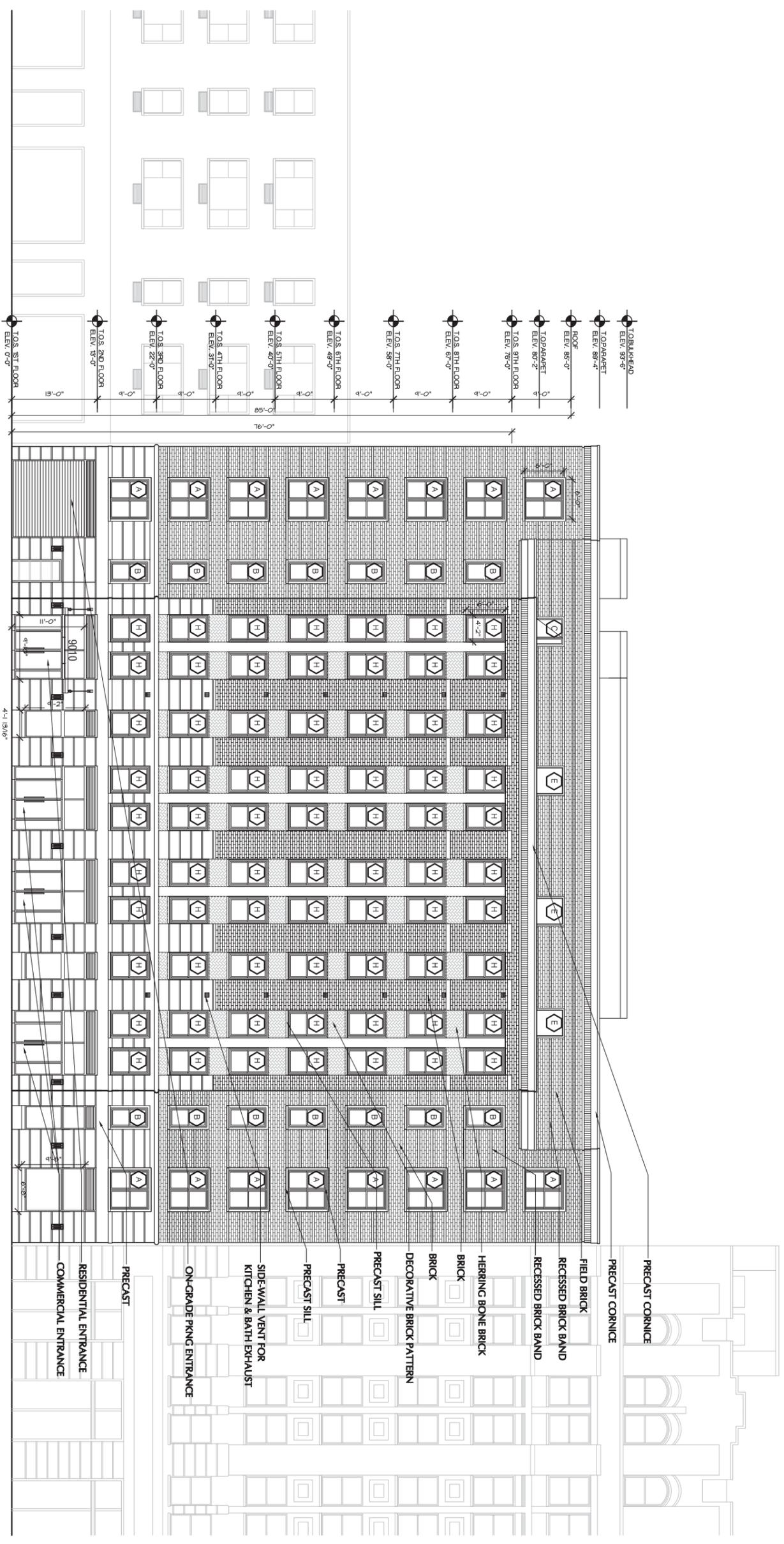
ARCHITECTS:
GFSS PARTNERS, LLP

OWNER:
BLUESTONE JAMAICA I, LLC

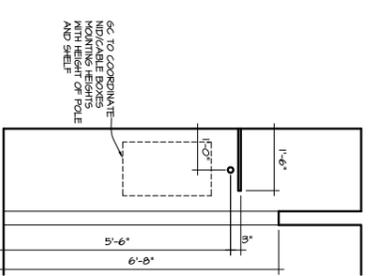
SEAL:

ISSUE:
DATE SUBMISSION
DATE:
20 MARCH 2012
REVISION:
08 MARCH 2011
13 JANUARY 2012
20 MARCH 2012

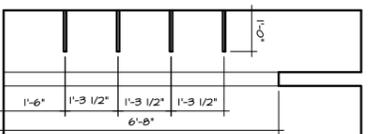
DRAWING:
161ST STREET ELEVATION
SCALE:
AS NOTED
DRAWN BY:
DRAWING NO.:



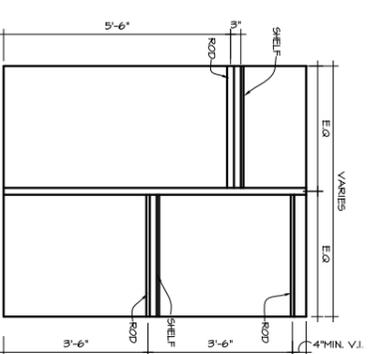
A 161ST STREET ELEVATION
1/8"=1'-0"



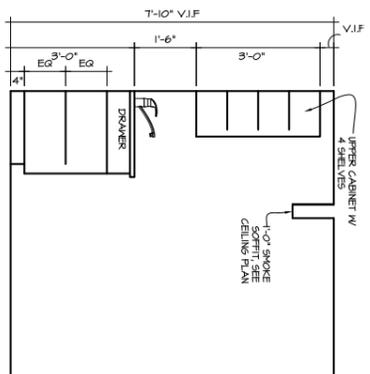
F TYPICAL CLOSET SECTION
1/2"=1'-0"



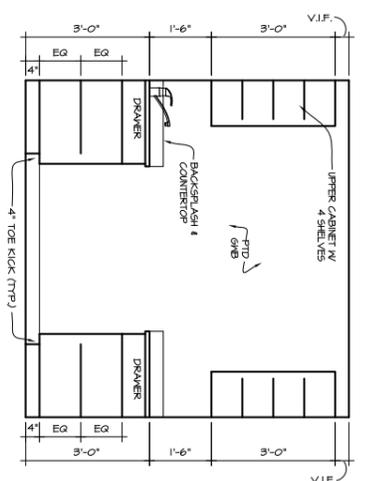
E TYPICAL LINEN CLOSET SECTION
1/2"=1'-0"



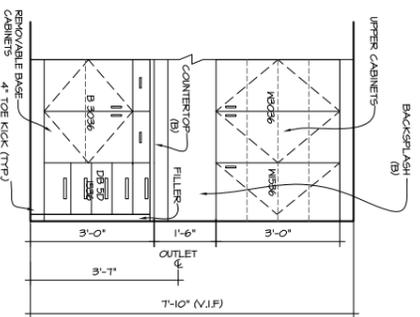
D TYPICAL ADA CLOSET LAYOUT
1/2"=1'-0"



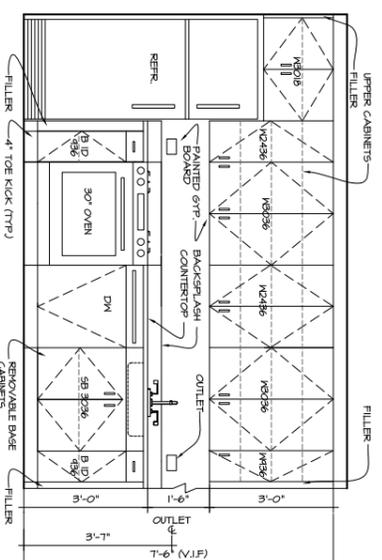
C2 KITCHEN ELEVATION
1/2"=1'-0"



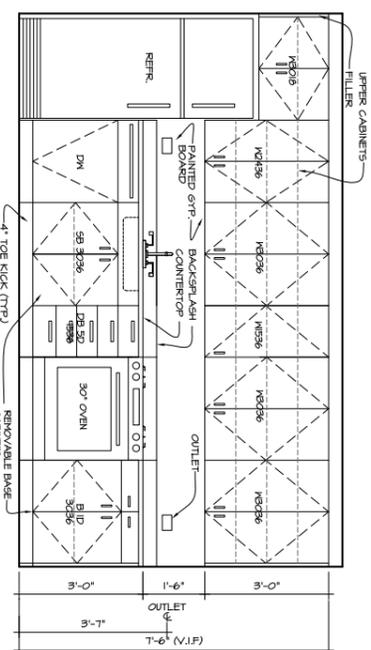
A3 KITCHEN ELEVATION
1/2"=1'-0"



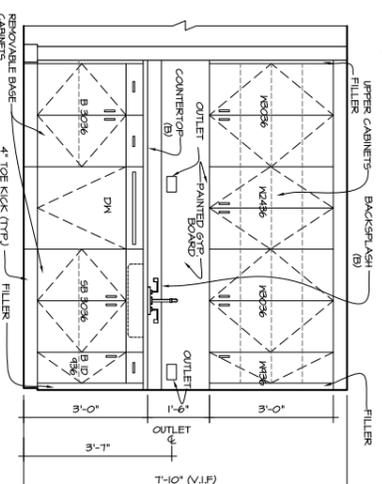
D1 KITCHEN ELEVATION
1/2"=1'-0"



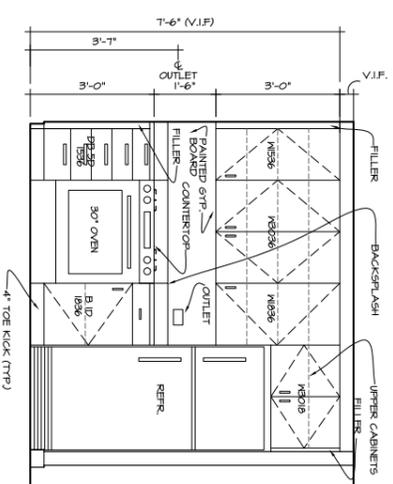
D2 KITCHEN ELEVATION
1/2"=1'-0"



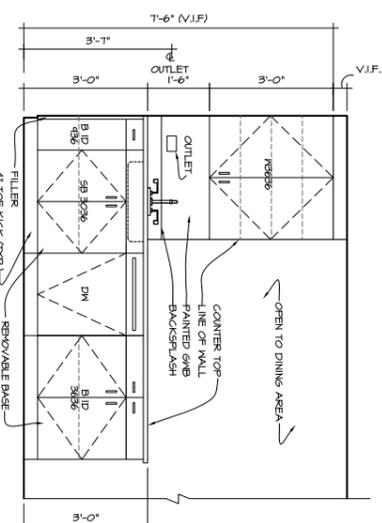
C1 KITCHEN ELEVATION
1/2"=1'-0"



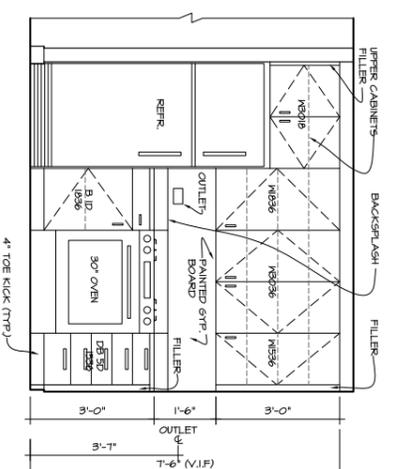
B2 KITCHEN ELEVATION
1/2"=1'-0"



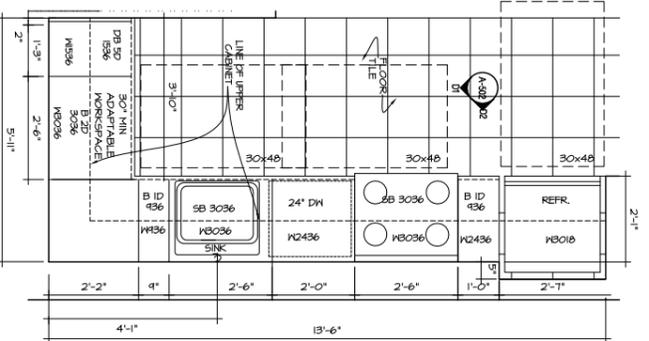
B1 KITCHEN ELEVATION
1/2"=1'-0"



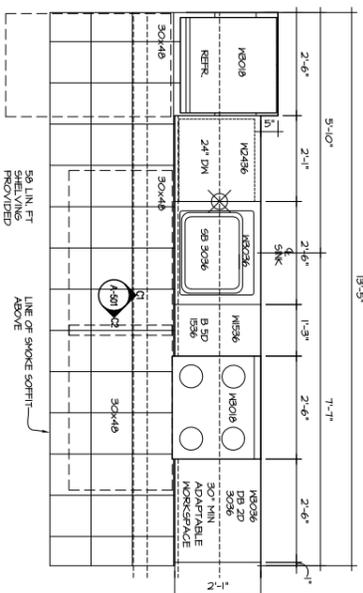
A2 KITCHEN ELEVATION
1/2"=1'-0"



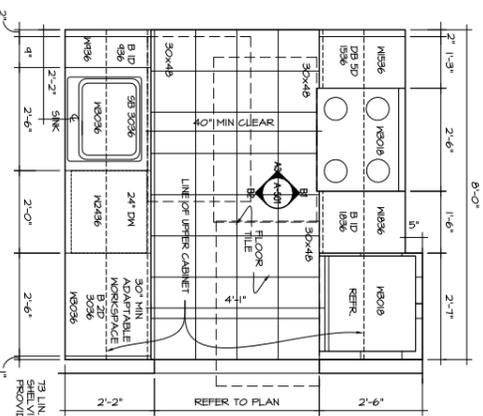
A1 KITCHEN ELEVATION
1/2"=1'-0"



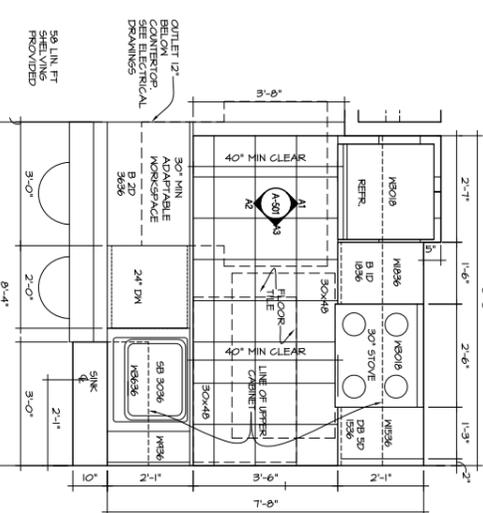
D KITCHEN TYPE 'D' DETAILED PLAN
1/2"=1'-0"



C KITCHEN TYPE 'C' DETAILED PLAN
1/2"=1'-0"



B KITCHEN TYPE 'B' DETAILED PLAN
1/2"=1'-0"



A KITCHEN TYPE 'A' DETAILED PLAN
1/2"=1'-0"



P A R T N E R S
19 W. 21ST STREET, SUITE 1201
NEW YORK, N Y 10011
212 352 3099
© GFSS Partners 2012

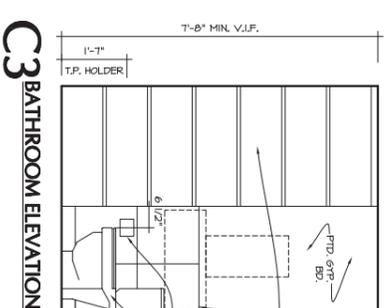
161ST STREET MIXED-USE INCLUSIONARY HOUSING DEVELOPMENT QUEENS, NY
BLOCK: 9757, LOTS: 18, 20, 22 & 29
ZONE: R7X, C4-5X
PROJECT #1451.00

ARCHITECTS:
GFSS PARTNERS, LLP
OWNER:
BLUESTONE JAMAICA, LLC
SEAL:

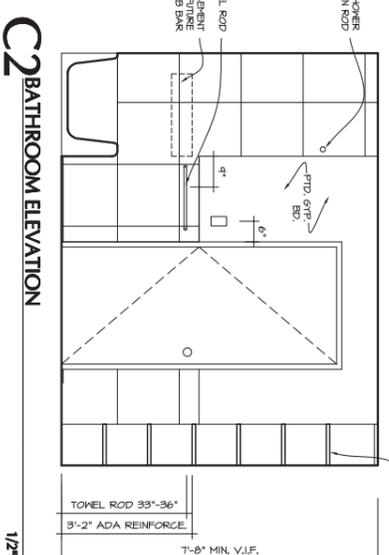
ISSUE:
DATE: 20 MARCH 2012
REVISION:
08 MARCH 2011
13 JANUARY 2012
20 MARCH 2012

DRAWING:
KITCHEN PLAN AND ELEVATION
SCALE:
AS NOTED
DRAWN BY:
DRAWING NO.:

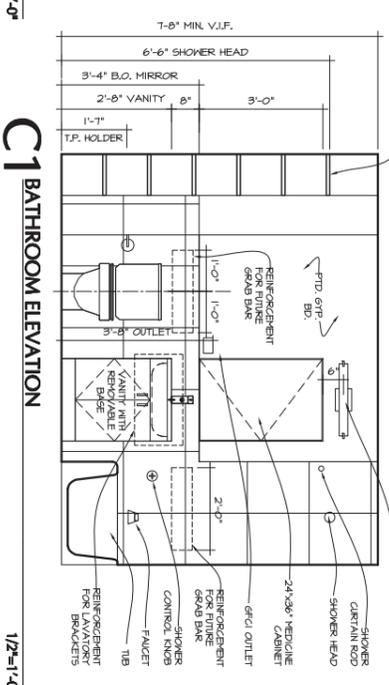
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OF



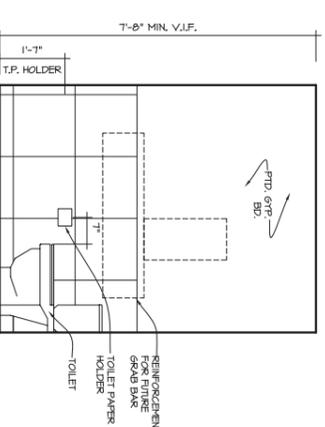
C3 BATHROOM ELEVATION
 1/2"=1'-0"



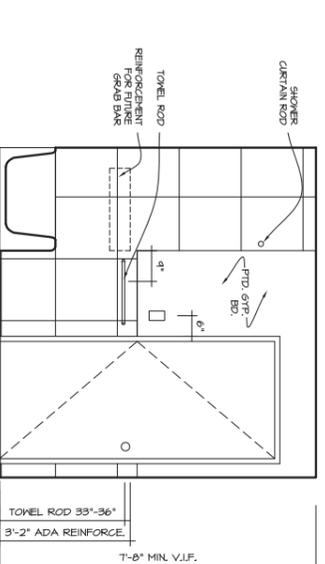
C2 BATHROOM ELEVATION
 1/2"=1'-0"



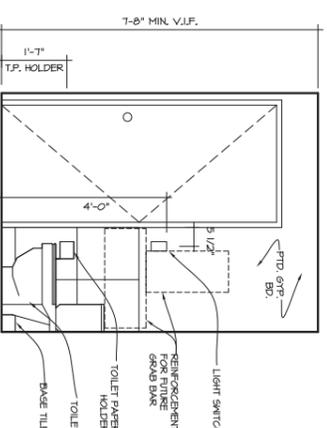
C1 BATHROOM ELEVATION
 1/2"=1'-0"



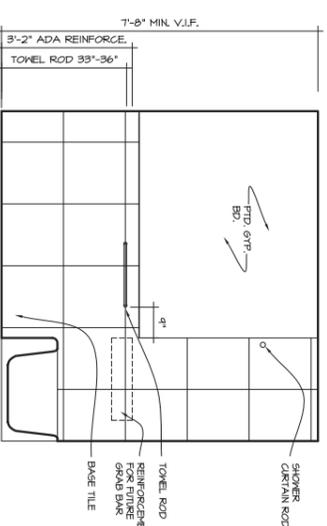
B2 BATHROOM ELEVATION
 1/2"=1'-0"



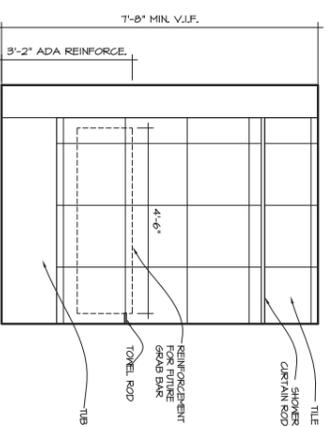
B1 BATHROOM ELEVATION
 1/2"=1'-0"



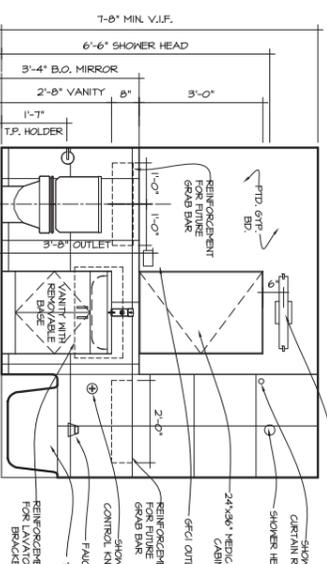
A4 BATHROOM ELEVATION
 1/2"=1'-0"



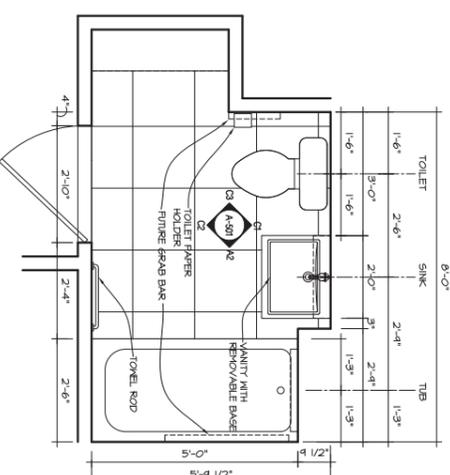
A3 BATHROOM ELEVATION
 1/2"=1'-0"



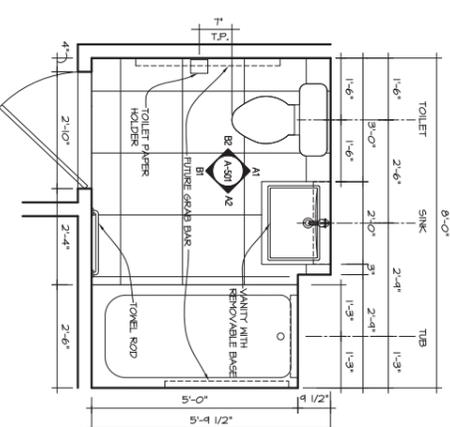
A2 BATHROOM ELEVATION
 1/2"=1'-0"



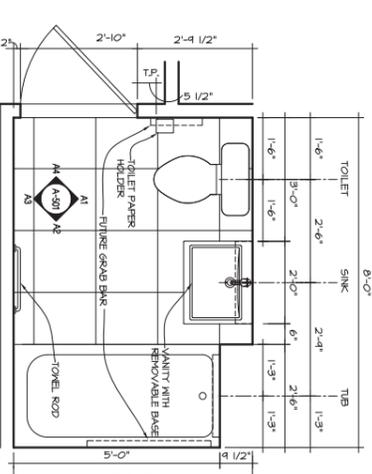
A1 BATHROOM ELEVATION
 1/2"=1'-0"



B BATHROOM TYPE 'B' DETAILED PLAN
 1/2"=1'-0"



B BATHROOM TYPE 'B' DETAILED PLAN
 1/2"=1'-0"

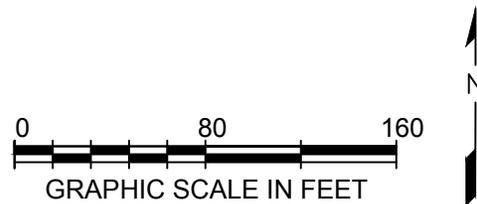


A BATHROOM TYPE 'A' DETAILED PLAN
 1/2"=1'-0"

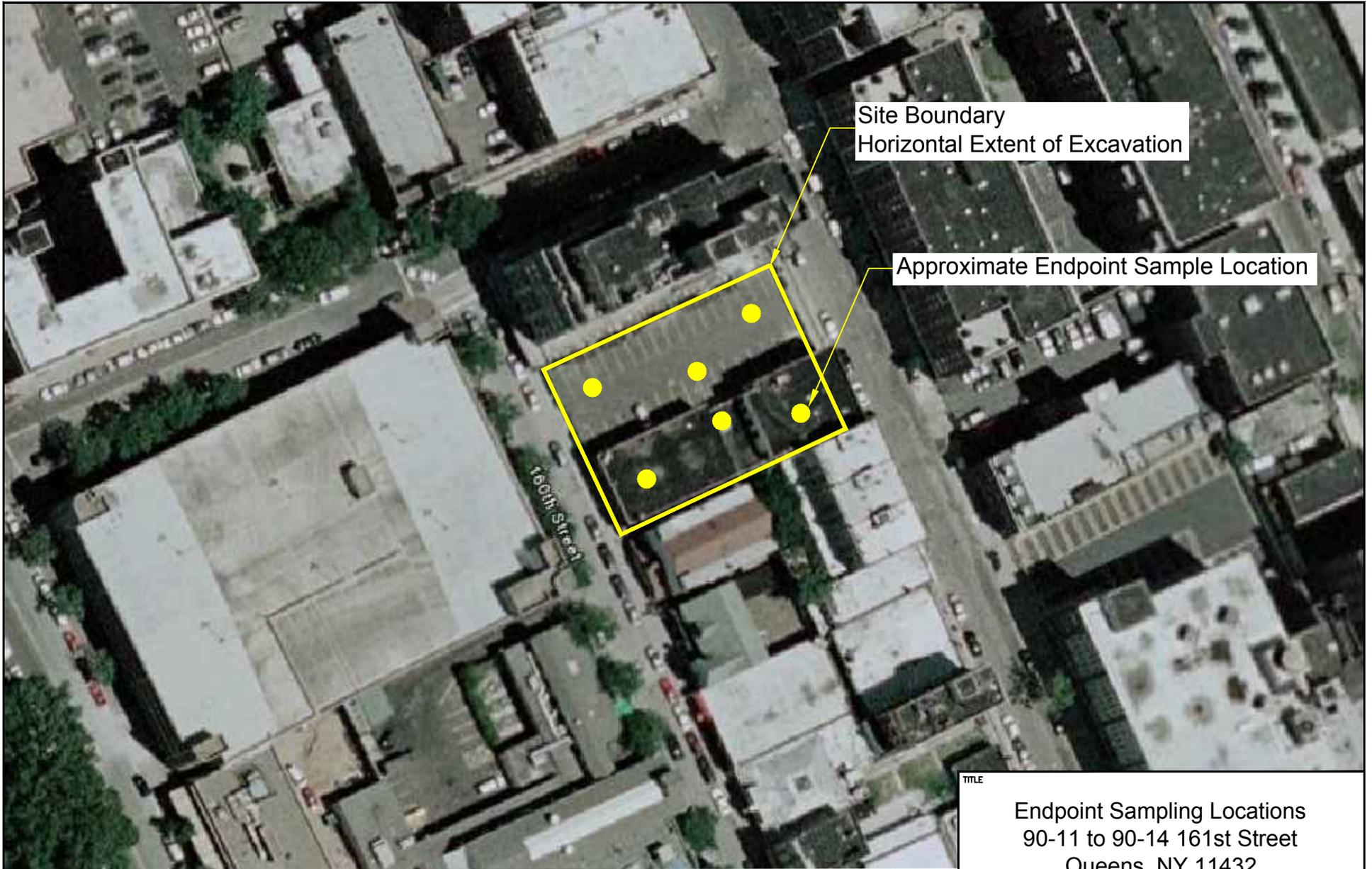


Note: The excavation will extend to the property line to a depth of approximately 12 to 16 feet below grade. The 12-foot depth is the approximate level of the floor slab. The 16-foot depth is the anticipated depth of footers.

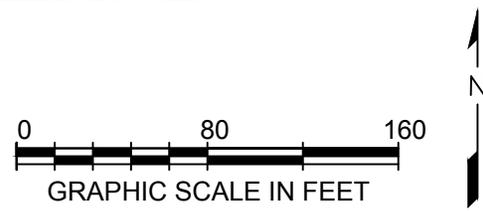
Source: Google Earth Maps



TITLE				FIGURE
Extent of Excavation 90-11 to 90-14 161st Street Queens, NY 11432				
PREPARED FOR				4
Bluestone Jamaica I, LLC.				
Environmental Resources Management 		DATE		
DRAWN BY	SCALE	DATE	JOB NO.	
EMF	GRAPHIC	09/04/12	0166820	



Source: Google Earth Maps



TITLE				FIGURE
Endpoint Sampling Locations 90-11 to 90-14 161st Street Queens, NY 11432				
PREPARED FOR				5
Bluestone Jamaica I, LLC.				
Environmental Resources Management 		DATE		
DRAWN BY	SCALE	DATE	JOB NO.	
EMF	GRAPHIC	09/04/12	0166820	

TABLES



ERM

520 Broad Hollow Road, Suite 210, Melville, NY 11747

BORING LOG

Boring Number

SB-01

Project Name & Location Bluestone Jamaica I, LLC			Project Number 0085523		Date & Time Started: 6/10/2008	
Drilling Company Laurel Environmental			Foreman Steve Bitetto		Date & Time Completed: 6/10/2008	
Drilling Equipment Geoprobe 76610DT			Method Direct Push		Sampler(s) Sampler Hammer Drop	
Bit Size(s) 2 - 1/8inch			Core Barrel(s) 2 - 1/8inch		Elevation & Datum Completion Depth Rock Depth 40'	
					Geologist(s) Karen Pickering	

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
0	LOCATION:				SURFACE DESCRIPTION:
		H.A.	0.0		Dark Brown silty sands, some gravel, poorly sorted, moist to dry, no odor. Some red brick.
1		H.A.	0.0		Same as above.
2		H.A.	0.0		Silty clay, some sand. Medium well sorted, brown, no odor, moist, soft.
3		H.A.	0.0		Same as above.
4		H.A.	0.0		Same as above.
5		4.0	0.0		M. and F. sand, some C. sand and silt, trace gravel. Moderate sorting, moist, brown, no odor.
6			0.0		Same as above.
7			0.0		Same as above.
8			0.0		Same as above.
9			0.0		Same as above.



ERM
 520 Broad Hollow Road, Suite 210, Melville, NY 11747
BORING LOG

Boring Number

SB-01

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
9	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
10			0.0		Same as above.
		5.0	0.0		Same as above.
11			0.0		Same as above.
			0.0		Same as above.
12			0.0		Same as above.
			0.0		M. and C. sand, some F. sand and gravel, trace silt, moist, brown, no odor, poorly sorted.
13			0.0		Same as above.
			0.0		Same as above.
14			0.0		Same as above.
			0.0		Same as above.
15			0.0		Same as above.
		4.5	0.0		Same as above.
16			0.0		Same as above.
			0.0		Same as above.
17			0.0		Same as above.
			0.0		Same as above.
18			0.0		Same as above.
			0.0		Same as above.
19			0.0		Same as above.



ERM

520 Broad Hollow Road, Suite 210, Melville, NY 11747

BORING LOG

Boring Number

SB-01

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
19	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
20		5.0	0.0		Same as above, trace shattered cobble.
21			0.0		Same as above.
22			0.0		Same as above.
23			0.0		Same as above.
24			0.0		Same as above.
25			0.0		Same as above.
26		4.5	0.0		Same as above, some iron stain banding.
27			0.0		Same as above.
28			0.0		Same as above.
29			0.0		Same as above.



ERM
 520 Broad Hollow Road, Suite 210, Melville, NY 11747
BORING LOG

Boring Number

SB-01

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
29	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
30			0.0		
		5.0	0.0		M. and F. sand, some C. sand, trace gravel and silt. Moist, brown, moderate sorted, no odor.
31			0.0		
			0.0		Same as above.
32			0.0		
			0.0		Same as above.
33			0.0		
			0.0		Same as above.
34			0.0		
			0.0		Same as above.
35			0.0		
		4.5	0.0		Same as above but light brown/tan, moist.
36			0.0		
			0.0		Same as above.
37			0.0		
			0.0		Same as above.
38			0.0		
			0.0		Same as above.
39			0.0		



ERM
 520 Broad Hollow Road, Suite 210, Melville, NY 11747
BORING LOG

Boring Number

SB-01

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
39	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
40					Wet. End of Boring at 40'bgs. Water table = 40'bgs.
41					
42					
43					
44					
45					
46					
47					
48					
49					



ERM

520 Broad Hollow Road, Suite 210, Melville, NY 11747

BORING LOG

Boring Number

SB-02

Project Name & Location Bluestone Jamaica I, LLC			Project Number 0085523		Date & Time Started: 6/10/2008	
Drilling Company Laurel Environmental			Foreman Steve Bitetto		Date & Time Completed: 6/10/2008	
Drilling Equipment Geoprobe 6610DT			Method Direct Push		Sampler(s) Sampler Hammer Drop	
Bit Size(s)			Core Barrel(s) 2 - 1/8inch		Elevation & Datum Completion Depth Rock Depth 45'	
					Geologist(s) Karen Pickering	

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
0	LOCATION:				SURFACE DESCRIPTION:
		H.A.	0.0		Brown/Lt. tan, silty sands, some gravel, poorly sorted, no odor, moist.
1		H.A.	0.0		Same as above.
2		H.A.	0.0		Same as above but with some clay.
3		H.A.	0.0		Same as above.
4		H.A.	0.0		Same as above.
5		4.0	0.0		M. and F. sand, some silt and C. sand, trace gravel, moderate sorting, dry to moist, no odor, brown.
6			0.0		Same as above.
7			0.0		Same as above.
8			0.0		Same as above.
9			0.0		Same as above.



ERM
 520 Broad Hollow Road, Suite 210, Melville, NY 11747
BORING LOG

Boring Number

SB-02

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
9	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
10			0.0		
		4.0	0.0		Same as above.
11			0.0		
			0.0		Same as above.
12			0.0		
			0.0		M. and C. sand, some gravel and F. sand, trace silt, poorly sorted, moist, no odor, brown.
13			0.0		
			0.0		Same as above.
14			0.0		
			0.0		Same as above.
15			0.0		
		5.0	0.0		Same as above.
16			0.0		
			0.0		Same as above.
17			0.0		
			0.0		Same as above.
18			0.0		
			0.0		Same as above.
19			0.0		



ERM
 520 Broad Hollow Road, Suite 210, Melville, NY 11747
BORING LOG

Boring Number

SB-02

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
19	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
20		5.0	0.0		M. and C. sand, some F. sand and gravel, trace silt, no odor, moist, brown, poorly sorted.
21			0.0		Same as above.
22			0.0		Same as above.
23			0.0		Same as above.
24			0.0		Same as above.
25			0.0		Same as above, some iron stain banding.
26			0.0		Same as above.
27			0.0		Same as above.
28			0.0		Same as above.
29			0.0		Same as above.



ERM
 520 Broad Hollow Road, Suite 210, Melville, NY 11747
BORING LOG

Boring Number

SB-02

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
29	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
30			0.0		
		2.5	0.0		M. sand, some C. and F. sand, trace gravel and silt, moderate to well sorted, light brown, moist, no odor, some iron stain banding.
31			0.0		
			0.0		Same as above.
32			0.0		
			0.0		Same as above.
33			0.0		
			0.0		Same as above.
34			0.0		
			0.0		Same as above.
35			0.0		
		2.5	0.0		Same as above, no iron stain banding.
36			0.0		
			0.0		Same as above.
37			0.0		
			0.0		Same as above.
38			0.0		
			0.0		Same as above.
39			0.0		



ERM
 520 Broad Hollow Road, Suite 210, Melville, NY 11747
BORING LOG

Boring Number

SB-02

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
39	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
40			0.0		
		2.5	0.0		Same as above, moist.
					Wet. Water table = 40.5'bgs
41			0.0		Same as above.
			0.0		
42			0.0		Same as above.
			0.0		
43			0.0		Same as above.
			0.0		
44			0.0		Same as above.
			0.0		
45					End of boring at 45'bgs.
46					
47					
48					
49					



ERM NE

520 Broad Hollow Road, Suite 210, Melville, NY 11747

BORING LOG

Boring Number

SB-03

Project Name & Location Bluestone Jamaica I, LLC			Project Number 0085523		Date & Time Started: 6/9/2008	
Drilling Company Laurel Environmental			Foreman Steve Bitetto		Date & Time Completed: 6/9/2008	
Drilling Equipment Geoprobe 6610DT			Method Direct Push		Sampler(s) Sampler Hammer Drop	
Bit Size(s) 2 - 1/8inch			Core Barrel(s) 2 - 1/8inch		Elevation & Datum Completion Depth Rock Depth 40'	
					Geologist(s) Karen Pickering	

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
0	LOCATION:				SURFACE DESCRIPTION:
		H.A.	0.0		Brown/Lt. tan, silty sands, some gravel, poorly sorted, no odor, moist.
1		H.A.	0.0		Same as above.
2		H.A.	0.0		Light brown silty clay, some sand, moist, no odor, soft, moderate sorting.
3		H.A.	0.0		Same as above.
4		H.A.	0.0		Same as above.
5		4.0	0.0		M. and F. sand, some silt and C. sand, trace gravel, well sorted, moist, no odor, brown.
6			0.0		Same as above.
7			0.0		Same as above.
8			0.0		Same as above.
9			0.0		Same as above.



ERM NE

520 Broad Hollow Road, Suite 210, Melville, NY 11747

BORING LOG

Boring Number

SB-03

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
9	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
10			0.0		
		5.0	0.0		Same as above.
11			0.0		
			0.0		Same as above.
12			0.0		
			0.0		M and C. sand, some F. sand and gravel, trace silt, poorly sorted, moist, brown, no odor.
13			0.0		
			0.0		Same as above.
14			0.0		
			0.0		Same as above.
15			0.0		
		4.5	0.0		Same as above.
16			0.0		
			0.0		Same as above.
17			0.0		
			0.0		Same as above.
18			0.0		
			0.0		Same as above.
19			0.0		



ERM NE

520 Broad Hollow Road, Suite 210, Melville, NY 11747

BORING LOG

Boring Number

SB-03

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
19	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
20			0.0		Same as above.
		4.0	0.0		Same as above.
21			0.0		Same as above.
			0.0		Same as above.
22			0.0		Same as above.
			0.0		Same as above.
23			0.0		Same as above.
			0.0		Same as above.
24			0.0		Same as above.
			0.0		Same as above.
25			0.0		Same as above.
		4.0	0.0		Brown, F. and M. sand, some silt and C> sand, trace gravel, moist, moderate to well sorted, no odor.
26			0.0		Same as above.
			0.0		Same as above.
27			0.0		Same as above.
			0.0		Same as above.
28			0.0		Same as above.
			0.0		Same as above.
29			0.0		Same as above.



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SB-03

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
29	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
30			0.0		
		5.0	0.0		Silty F. and M. sand, some C. sand, trace gravel, brown, moist, no odor, poor to moderate sorting.
31			0.0		
			0.0		Same as above.
32			0.0		
			0.0		Same as above.
33			0.0		
			0.0		Same as above.
34			0.0		
			0.0		Same as above.
35			0.0		
		3.0	0.0		Same as above.
36			0.0		
			0.0		Same as above.
37			0.0		
			0.0		Same as above.
38			0.0		
			0.0		Same as above.
39			0.0		



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BORING LOG

Boring Number

SB-03

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
39	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
40					Wet. Water table = 40'bgs. End of boring at 40'bgs.
41					
42					
43					
44					
45					
46					
47					
48					
49					



ERM NE

520 Broad Hollow Road, Suite 210, Melville, NY 11747

BORING LOG

Boring Number

SB-04

Project Name & Location Bluestone Jamaica I, LLC			Project Number 0085523		Date & Time Started: 6/10/2008	
Drilling Company Laurel Environmental			Foreman Steve Bitetto		Date & Time Completed: 6/10/2008	
Drilling Equipment Geoprobe 6610DT			Method Direct Push		Sampler(s) Sampler Hammer Drop	
Bit Size(s)			Core Barrel(s) 2 - 1/8inch		Elevation & Datum Completion Depth Rock Depth 40'	
					Geologist(s) Karen Pickering	

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
0	LOCATION:				SURFACE DESCRIPTION:
		H.A.	0.0		Brown, silty clay, soft, some sand intermixed, moderate sorting, no odor.
1		H.A.	0.0		Same as above.
2		H.A.	0.0		Same as above.
3		H.A.	0.0		Same as above.
4		H.A.	0.0		Same as above.
5		H.A.	0.0		Same as above.
6		5.0	0.0		M. and F. sand, some silt and C. sand, trace gravel, brown, moist, no odor, well sorted.
7			0.0		Same as above.
8			0.0		Same as above.
9			0.0		Same as above.



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BORING LOG

Boring Number

SB-04

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
9	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
10			0.0		
		5.0	0.0		M. and C. sand some F. sand and gravel, trace silt, moderate to poor sorting, moist, brown, no odor.
11			0.0		
			0.0		Same as above.
12			0.0		
			0.0		Same as above.
13			0.0		
			0.0		Same as above.
14			0.0		
			0.0		Same as above.
15			0.0		
		5.0	0.0		Same as above.
16			0.0		
			0.0		Same as above.
17			0.0		
			0.0		Same as above.
18			0.0		
			0.0		Same as above.
19			0.0		



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BORING LOG

Boring Number

SB-04

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
19	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
20			0.0		Same as above.
		5.0	0.0		Same as above.
21			0.0		Same as above.
			0.0		Same as above.
22			0.0		Same as above.
			0.0		Same as above.
23			0.0		Same as above.
			0.0		Same as above.
24			0.0		Same as above.
			0.0		Same as above.
25			0.0		Same as above.
		5.0	0.0		M. and C. sand, some F. sand and gravel, trace silt and fractured cobble, poor to moderate sorting, moist, brown, no odor.
26			0.0		Same as above.
			0.0		Same as above.
27			0.0		Same as above.
			0.0		Same as above.
28			0.0		Same as above.
			0.0		Same as above.
29			0.0		Same as above.



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BORING LOG

Boring Number

SB-04

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
29	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
30			0.0		Light Brown but same as above.
		5.0	0.0		Same as above, brown to light brown, moist/dry.
31			0.0		Same as above.
			0.0		Same as above.
32			0.0		Same as above.
			0.0		Same as above.
33			0.0		Same as above.
			0.0		Same as above.
34			0.0		Same as above.
			0.0		Same as above.
35			0.0		Same as above, moist, light brown.
		3.0	0.0		Same as above.
36			0.0		Same as above.
			0.0		Same as above.
37			0.0		Same as above.
			0.0		Same as above.
38			0.0		Same as above.
			0.0		Same as above.
39			0.0		Same as above.



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BORING LOG

Boring Number

SB-04

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
39	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
40					Wet. Water table = 40'bgs. End of boring at 40'bgs.
41					
42					
43					
44					
45					
46					
47					
48					
49					



ERM NE

520 Broad Hollow Road, Suite 210, Melville, NY 11747

BORING LOG

Boring Number

SB-05

Project Name & Location Bluestone Jamaica I, LLC			Project Number 0085523		Date & Time Started: 6/9/2008	
Drilling Company Laurel Environmental			Foreman Steve Bitetto		Date & Time Completed: 6/9/2008	
Drilling Equipment Geoprobe 6610DT			Method Direct Push		Sampler(s) Sampler Hammer Drop	
Bit Size(s)			Core Barrel(s) 2 - 1/8inch		Elevation & Datum Completion Depth Rock Depth 40'	
					Geologist(s) Karen Pickering	

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
0	LOCATION:				SURFACE DESCRIPTION:
		H.A.	0.0		Brown, silty clay, soft, some sand intermixed, moderate sorting, no odor.
1		H.A.	0.0		Same as above.
2		H.A.	0.0		Same as above.
3		H.A.	0.0		Same as above.
4		H.A.	0.0		Same as above.
5		H.A.	0.0		Same as above.
6		<0.5	0.0		Dry, Light brown, silty sands some gravel, poorly sorted, no odor. sorted.
7			0.0		Same as above.
8			0.0		Same as above.
9			0.0		Same as above.



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BORING LOG

Boring Number

SB-05

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
9	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
10		5.0	0.0		F. and M. sand, some silt and C. sand, trace gravel, moist to dry, brown, moderate sorting.
11			0.0		Same as above.
12			0.0		Same as above.
13			0.0		Same as above.
14			0.0		Same as above.
15			0.0		Same as above.
16		5.0	0.0		Same as above, trace piece of broken red brick.
17			0.0		Same as above.
18			0.0		Same as above.
19			0.0		Same as above.



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BORING LOG

Boring Number

SB-05

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
19	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
20			0.0		
		2.5	0.0		Silty sands, some gravel, poorly sorted, moist to dry, light brown.
21			0.0		
			0.0		Same as above.
22			0.0		
			0.0		Same as above.
23			0.0		
			0.0		Same as above.
24			0.0		
			0.0		Same as above.
25			0.0		
		5.0	0.0		Same as above.
26			0.0		
			0.0		Same as above.
27			0.0		
			0.0		Same as above.
28			0.0		
			0.0		Same as above.
29			0.0		



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Boring Number

SB-05

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
29	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
30			0.0		
		3.0	0.0		M. and F> sand, some silt, trace C. sand and gravel, moist, light brown, well sorted.
31			0.0		
			0.0		Same as above.
32			0.0		
			0.0		Same as above.
33			0.0		
			0.0		Same as above.
34			0.0		
			0.0		Same as above.
35			0.0		
		3.0	0.0		Same as above.
36			0.0		
			0.0		Same as above.
37			0.0		
			0.0		Same as above.
38			0.0		
			0.0		Same as above.
39			0.0		



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BORING LOG

Boring Number

SB-05

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
39	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
40					Wet. Water table = 40'bgs. End of boring at 40'bgs.
41					
42					
43					
44					
45					
46					
47					
48					
49					



ERM NE

520 Broad Hollow Road, Suite 210, Melville, NY 11747

BORING LOG

Boring Number

SB-06

Project Name & Location Bluestone Jamaica I, LLC			Project Number 0085523		Date & Time Started: 6/9/2008	
Drilling Company Laurel Environmental			Foreman Steve Bitetto		Date & Time Completed: 6/9/2008	
Drilling Equipment Geoprobe 6610DT			Method Direct Push		Sampler(s) Sampler Hammer Drop	
Bit Size(s)			Core Barrel(s) 2 - 1/8inch		Elevation & Datum Completion Depth Rock Depth 40'	
					Geologist(s) Karen Pickering	

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
0	LOCATION:				SURFACE DESCRIPTION:
		H.A.	0.0		Silty sands, some clay and gravel, poorly sorted, moist, soft brown, no odor.
1		H.A.	0.0		Same as above.
2		H.A.	0.0		Same as above.
3		H.A.	0.0		Same as above.
4		H.A.	0.0		Same as above.
5		H.A.	0.0		Same as above.
6		0.5	0.0		Red brock and asphalt pieces, cobble sized, no odor, very little sediment recovered.
7			0.0		Same as above.
8			0.0		Same as above.
9			0.0		Same as above.



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BORING LOG

Boring Number

SB-06

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
9	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
10		3.0	0.0		M. and F. sand, some silt and C. sand, trace gravel, moist, no odor, brown, moderate sorting.
11			0.0		Same as above.
12			0.0		Same as above.
13			0.0		Same as above.
14			0.0		Same as above.
15			0.0		Same as above.
16		3.5	0.0		Brown M. sand some F. and C> sand, trace silt and gravel, red brick fragments present near top of macrocore, no odor, moist, moderate sorting.
17			0.0		Same as above.
18			0.0		Same as above.
19			0.0		Same as above.



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BORING LOG

Boring Number

SB-06

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
19	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
20			0.0		
		3.5	0.0		M. and C. sand, some F. sand, trace silt and gravel, moderate to poorly sorted, moist, no odor, brown, some pieces of broken red brick.
21			0.0		
			0.0		Same as above.
22			0.0		
			0.0		Same as above.
23			0.0		
			0.0		Same as above.
24			0.0		
			0.0		Same as above.
25			0.0		
		3.0	0.0		Same as above.
26			0.0		
			0.0		Same as above.
27			0.0		
			0.0		M. sand, some F. and C. sand, trace gravel, moist, no odor, well sorted, light brown.
28			0.0		
			0.0		Same as above.
29			0.0		



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BORING LOG

Boring Number

SB-06

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
29	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
30			0.0		
		3.0	0.0		M. sand, dry to moist, light brown, some F. sand, trace C. sand, well sorted, no odor.
31			0.0		Same as above.
			0.0		
32			0.0		Same as above.
			0.0		
33			0.0		Same as above.
			0.0		
34			0.0		Same as above.
			0.0		
35			0.0		Light brown, M. and F. sand, trace C. sand, well sorted, no odor, moist.
		3.0	0.0		
36			0.0		Same as above.
			0.0		
37			0.0		Same as above.
			0.0		
38			0.0		Same as above.
			0.0		
39			0.0		



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BORING LOG

Boring Number

SB-06

DEPTH (ft below grade)	SAMPLES			USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)		
39	LOCATION:				SURFACE DESCRIPTION:
			0.0		Same as above.
40					Wet. Water table = 40'bgs. End of boring at 40'bgs.
41					
42					
43					
44					
45					
46					
47					
48					
49					



ERM NE

40 Marcus Drive, Suite 200, Melville, NY 11747

BORING LOG

Boring Number
SB-09 / GW-07

DEPTH (ft below grade)	SAMPLES			Fluoro-scope	USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)			
0	LOCATION:					SURFACE DESCRIPTION:
			0.0			Hand cleared on 6/14/2012
						Urban fill with pebbles, coarse - very fine grained sands and silts
5		5' - 8' 60.0%	0.0		7.5 YR 4/6	Urban fill with pebbles, coarse - very fine grained sands and silts
10		12' - 15'	0.0		7.5 YR	Urban fill with pebbles, coarse - very fine grained sands and silts ends at ~12.5' bgs
	SB-09 (13' - 15")	60.0%			4/6	Native soils begin at ~13' bgs
						Pebbles, coarse - very fine grained sands with silts and a small percentage of clay
15		15' - 18' 60.0%	0.0		5 YR 4/4	Pebbles, coarse - very fine grained sands with silts and a small percentage of clay
20		20' - 23' 60.0%	0.0		5 YR 4/4	Pebbles, coarse - very fine grained sands with silts and a small percentage of clay
25		25' - 29' 80.0%	0.0		5 YR 4/4	Pebbles, coarse - very fine grained sands with silts and a small percentage of clay
30		30' - 34' 80.0%	0.0		5 YR 4/4	Pebbles, coarse - very fine grained sands with silts and a small percentage of clay
35		35' - 40' 100.0%	0.0		5 YR 4/4	Pebbles, coarse - very fine grained sands with silts and a small percentage of clay
40		41' - 45' 80.0%	0.0		5 YR 4/4	Pebbles, coarse - very fine grained sands with silts and a small percentage of clay
45						



ERM NE

40 Marcus Drive, Suite 200, Melville, NY 11747

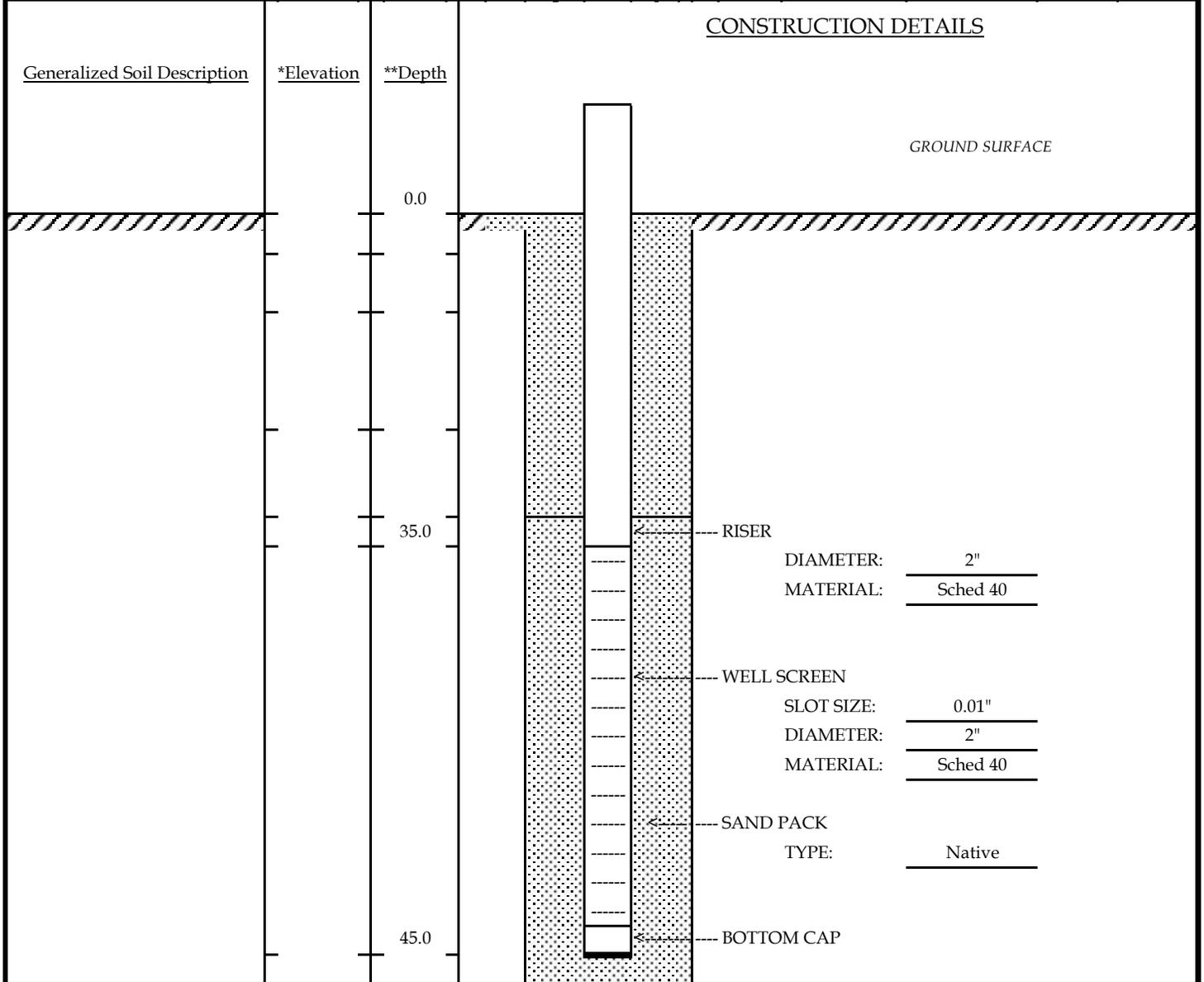
BORING LOG

Boring Number
SB-12/ GW-08

DEPTH (ft below grade)	SAMPLES				USCS/ MUNSELL COLOR CHART	SOIL DESCRIPTION
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Fluoro- scope		
0	LOCATION:					SURFACE DESCRIPTION:
			0.0			Hand cleared on 6/14/2012
						Urban fill with pebbles, coarse - very fine grained sands and silts
5		None 0.0%	0.0		7.5 YR 3/4	No recovery Urban fill with pebbles, coarse - very fine grained sands and silts
10		12.5'-15'	0.0		7.5 YR	Urban fill with pebbles, coarse - very fine grained sands and silts ends at ~14.5' bgs
	SB-12 (13' - 15")	50.0%			3/4	Pebbles, coarse - very fine grained sands with silts and a small percentage of clay
15		15' - 18'	0.0		7.5 YR	Native soils start at ~15' bgs
		60.0%			3/4	Pebbles, coarse - very fine grained sands with silts and a small percentage of clay
20		20' - 21'	0.0		7.5 YR	Pebbles, coarse - very fine grained sands with silts and a small percentage of clay
		20.0%			3/4	
25		25' - 28'	0.0		7.5 YR	Pebbles, coarse - very fine grained sands with silts and a small percentage of clay
		60.0%			3/4	
30		30' - 35'	0.0		7.5 YR	Pebbles, coarse - very fine grained sands with silts and a small percentage of clay
		100.0%			3/4	
35		35' - 40'	0.0		7.5 YR	Pebbles, coarse - very fine grained sands with silts and a small percentage of clay
		100.0%			3/4	
40						DTW = 37.70'
		41' - 44'	0.0		7.5 YR	Pebbles, coarse - very fine grained sands with silts and a small percentage of clay
		60.0%			3/4	
45						DTB = 44' bgs

TEMPORARY MONITORING WELL CONSTRUCTION LOG

<i>Project Name & Location</i> Bluestone Jamaica		<i>Project No.</i>		<i>Water Level(s)</i> (ft below top of PVC casing)		<i>Site Elevation Datum (feet)</i>	
<i>Drilling Company</i> Enviroprobe		<i>Foreman</i> Mike		<i>Date</i> 6/15/2012	<i>Time</i> 13:00	<i>Level (feet)</i>	<i>Ground Elevation (feet)</i>
<i>Surveyor</i>		<i>Geologist</i> Brice Lynch					<i>Top of Protective Steel Cap Elevation (feet)</i>
<i>Date and Time of Completion</i>							<i>Top of Riser Pipe Elevation (feet)</i>



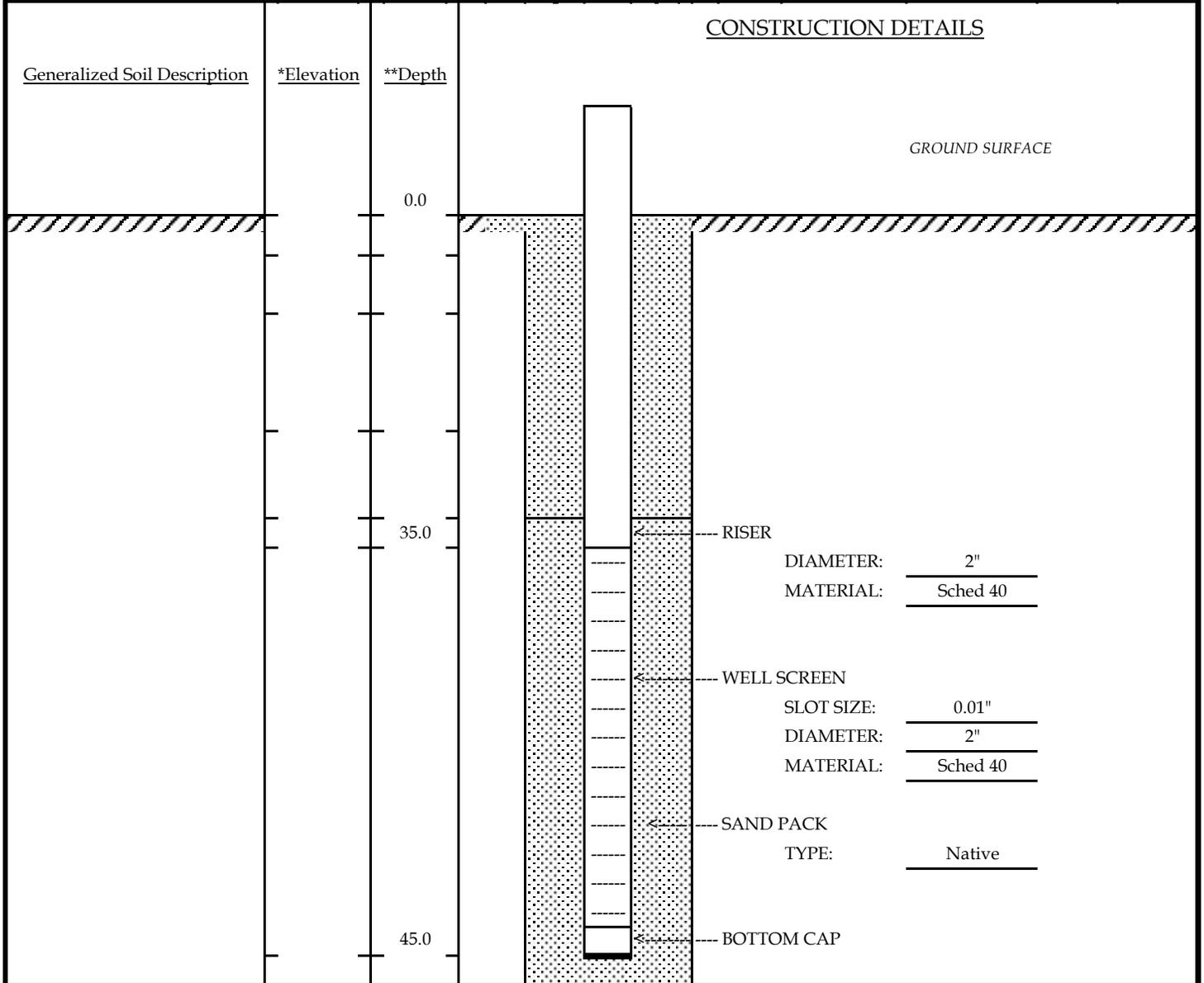
REMARKS _____

* Elevation (feet) above mean sea level unless noted

** Depth in feet below ground surface

TEMPORARY MONITORING WELL CONSTRUCTION LOG

<i>Project Name & Location</i> Bluestone Jamaica		<i>Project No.</i>		<i>Water Level(s)</i> (ft below top of PVC casing)		<i>Site Elevation Datum (feet)</i>	
<i>Drilling Company</i> Enviroprobe		<i>Foreman</i> Mike		<i>Date</i> 6/15/2012	<i>Time</i> 12:00	<i>Level (feet)</i>	<i>Ground Elevation (feet)</i>
<i>Surveyor</i>		<i>Geologist</i> Brice Lynch					<i>Top of Protective Steel Cap Elevation (feet)</i>
<i>Date and Time of Completion</i>							<i>Top of Riser Pipe Elevation (feet)</i>



REMARKS _____

* Elevation (feet) above mean sea level unless noted

** Depth in feet below ground surface

Table 2
Soil Analytical Results
Volatile Organic Compounds (VOCs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-01		SB-02		
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_1	0806007_13	0806007_4	0806007_11
	DATE	Unrestricted	AND CP-51	06/09/2008	06/10/2008	06/09/2008	06/10/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
Starting Depth	(feet)			0.00	38.00	0.00	39.00
Ending Depth	(feet)			2.00	40.00	2.00	41.00
1,1,1,2-Tetrachloroethane	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
1,1,1-Trichloroethane	(ug/kg)	680	100000	5.4 U	5.2 U	5.3 U	5.2 U
1,1,2,2-Tetrachloroethane	(ug/kg)		35000	5.4 U	5.2 U	5.3 U	5.2 U
1,1,2-Trichloroethane	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
1,1-Dichloroethane	(ug/kg)	270	19000	5.4 U	5.2 U	5.3 U	5.2 U
1,1-Dichloroethene	(ug/kg)	330	100000	5.4 U	5.2 U	5.3 U	5.2 U
1,1-Dichloropropene	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
1,2,3-Trichlorobenzene	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
1,2,3-Trichloropropane	(ug/kg)		80000	5.4 U	5.2 U	5.3 U	5.2 U
1,2,4-Trichlorobenzene	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
1,2,4-Trimethylbenzene	(ug/kg)	3600	47000	8.6	1.8 J	1.5 J	1.8 J
1,2-Dibromo-3-chloropropane	(ug/kg)			NA	NA	NA	NA
1,2-Dibromoethane	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
1,2-Dichlorobenzene	(ug/kg)	1100	100000	5.4 U	5.2 U	5.3 U	5.2 U
1,2-Dichloroethane	(ug/kg)	20	2300	5.4 U	5.2 U	5.3 U	5.2 U
1,2-Dichloropropane	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
1,3,5-Trimethylbenzene	(ug/kg)	8400	47000	5.4 U	3.3 J	2.8 J	2.6 J
1,3-Dichlorobenzene	(ug/kg)	2400	17000	5.4 U	5.2 U	5.3 U	5.2 U
1,3-Dichloropropane	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
1,4-Dichlorobenzene	(ug/kg)	1800	9800	5.4 U	5.2 U	5.3 U	5.2 U
1,4-Dioxane	(ug/kg)	100	9800	NA	NA	NA	NA
2-Butanone	(ug/kg)	120	100000	5.4 U	5.2 U	5.3 U	5.2 U
2-Chlorotoluene	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
2-Hexanone	(ug/kg)			NA	NA	NA	NA
2-Nitropropane	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
4-Chlorotoluene	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
4-Methyl-2-Pentanone	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U

See the Endnotes following the last page of this Table.

Table 2
 Soil Analytical Results
 Volatile Organic Compounds (VOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	6NYCRR PART 375		SB-01	SB-01	SB-02	SB-02
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_1	0806007_13	0806007_4	0806007_11
	DATE	Unrestricted	AND CP-51	06/09/2008	06/10/2008	06/09/2008	06/10/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
Acetone	(ug/kg)	50	100000	27 U	26 U	26.5 U	26 U
Acrylonitrile	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Allyl chloride	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Benzene	(ug/kg)	60	2900	5.4 U	5.2 U	5.3 U	5.2 U
Bromobenzene	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Bromochloromethane	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Bromodichloromethane	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Bromoform	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Bromomethane	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Carbon Disulfide	(ug/kg)		100000	5.4 U	5.2 U	5.3 U	5.2 U
Carbon Tetrachloride	(ug/kg)	760	1400	5.4 U	5.2 U	5.3 U	5.2 U
Chlorobenzene	(ug/kg)	1100	100000	5.4 U	5.2 U	5.3 U	5.2 U
Chlorodifluoromethane	(ug/kg)			27 U	26 U	26.5 U	26 U
Chloroethane	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Chloroform	(ug/kg)	370	10000	5.4 U	5.2 U	5.3 U	5.2 U
Chloromethane	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Chloroprene	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
cis-1,2-Dichloroethene	(ug/kg)	250	59000	5.4 U	5.2 U	5.3 U	5.2 U
cis-1,3-Dichloropropene	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Cyclohexane	(ug/kg)			NA	NA	NA	NA
Dibromochloromethane	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Dibromomethane	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Dichlorodifluoromethane	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Diethyl ether	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Ethanol	(ug/kg)			270 U	260 U	265 U	260 U
Ethylbenzene	(ug/kg)	1000	30000	5.4 U	5.2 U	5.3 U	5.2 U
Freon 113	(ug/kg)		100000	5.4 U	5.2 U	5.3 U	5.2 U
Hexachlorobutadiene	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Isopropyl Ether	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U

See the Endnotes following the last page of this Table.

Table 2
 Soil Analytical Results
 Volatile Organic Compounds (VOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-01	SB-01	SB-02	SB-02	
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_1	0806007_13	0806007_4	0806007_11
	DATE	Unrestricted	AND CP-51	06/09/2008	06/10/2008	06/09/2008	06/10/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
Isopropylbenzene	(ug/kg)		100000	5.4 U	5.2 U	5.3 U	5.2 U
m+p-Xylene	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Methacrylonitrile	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Methyl Acetate	(ug/kg)			NA	NA	NA	NA
Methyl acrylate	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Methyl Cyclohexane	(ug/kg)			NA	NA	NA	NA
Methyl Tertiary Butyl Ether	(ug/kg)	930	62000	5.4 U	5.2 U	5.3 U	5.2 U
Methylene Chloride	(ug/kg)	50	51000	5.4 U	5.2 U	5.3 U	5.2 U
Naphthalene	(ug/kg)	12000	100000	6.5	5.2 U	1.2 J	0.92 J
n-Butylbenzene	(ug/kg)	12000	100000	5.4 U	5.2 U	5.3 U	5.2 U
n-Propylbenzene	(ug/kg)	3900	100000	5.4 U	0.40 J	0.38 J	0.43 J
o-Xylene	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
p-Isopropyltoluene	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
sec-Butylbenzene	(ug/kg)	11000	100000	5.4 U	5.2 U	5.3 U	5.2 U
Styrene	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
tert-amyl alcohol	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
tert-Amyl methyl ether	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
tert-Buthyl ethyl ether	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
tert-Butylbenzene	(ug/kg)	5900	100000	5.4 U	5.2 U	5.3 U	5.2 U
Tertiary Butyl Alcohol	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Tetrachloroethene	(ug/kg)	1300	5500	5.4 U	5.2 U	5.3 U	5.2 U
Toluene	(ug/kg)	700	100000	5.4 U	5.2 U	0.47 J	5.2 U
trans-1,2-Dichloroethene	(ug/kg)	190	100000	5.4 U	5.2 U	5.3 U	5.2 U
trans-1,3-Dichloropropene	(ug/kg)			NA	NA	NA	NA
Trichloroethene	(ug/kg)	470	10000	5.4 U	5.2 U	5.3 U	5.2 U
Trichlorofluoromethane	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Vinyl Acetate	(ug/kg)			5.4 U	5.2 U	5.3 U	5.2 U
Vinyl chloride	(ug/kg)	20	210	5.4 U	5.2 U	5.3 U	5.2 U
Xylene (total)	(ug/kg)	260	100000	NA	NA	NA	NA

See the Endnotes following the last page of this Table.

Table 2
 Soil Analytical Results
 Volatile Organic Compounds (VOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-03		SB-03		SB-04		SB-04	
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_5	0806007_9	0806007_2	0806007_12			
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/10/2008			
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary			
Starting Depth	(feet)			0.00	38.00	0.00	38.00			
Ending Depth	(feet)			2.00	40.00	2.00	40.00			
1,1,1,2-Tetrachloroethane	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U			
1,1,1-Trichloroethane	(ug/kg)	680	100000	5.75 U	5.2 U	6.96 U	5.2 U			
1,1,2,2-Tetrachloroethane	(ug/kg)		35000	5.75 U	5.2 U	6.96 U	5.2 U			
1,1,2-Trichloroethane	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U			
1,1-Dichloroethane	(ug/kg)	270	19000	5.75 U	5.2 U	6.96 U	5.2 U			
1,1-Dichloroethene	(ug/kg)	330	100000	5.75 U	5.2 U	6.96 U	5.2 U			
1,1-Dichloropropene	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U			
1,2,3-Trichlorobenzene	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U			
1,2,3-Trichloropropane	(ug/kg)		80000	5.75 U	5.2 U	6.96 U	5.2 U			
1,2,4-Trichlorobenzene	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U			
1,2,4-Trimethylbenzene	(ug/kg)	3600	47000	1.9 J	1.9 J	6.96 U	1.6 J			
1,2-Dibromo-3-chloropropane	(ug/kg)			NA	NA	NA	NA			
1,2-Dibromoethane	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U			
1,2-Dichlorobenzene	(ug/kg)	1100	100000	5.75 U	5.2 U	6.96 U	5.2 U			
1,2-Dichloroethane	(ug/kg)	20	2300	5.75 U	5.2 U	6.96 U	5.2 U			
1,2-Dichloropropane	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U			
1,3,5-Trimethylbenzene	(ug/kg)	8400	47000	3.5 J	0.74 J	6.96 U	3.2 J			
1,3-Dichlorobenzene	(ug/kg)	2400	17000	5.75 U	5.2 U	6.96 U	5.2 U			
1,3-Dichloropropane	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U			
1,4-Dichlorobenzene	(ug/kg)	1800	9800	5.75 U	5.2 U	6.96 U	5.2 U			
1,4-Dioxane	(ug/kg)	100	9800	NA	NA	NA	NA			
2-Butanone	(ug/kg)	120	100000	5.75 U	5.2 U	6.96 U	5.2 U			
2-Chlorotoluene	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U			
2-Hexanone	(ug/kg)			NA	NA	NA	NA			
2-Nitropropane	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U			
4-Chlorotoluene	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U			
4-Methyl-2-Pentanone	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U			

See the Endnotes following the last page of this Table.

Table 2
 Soil Analytical Results
 Volatile Organic Compounds (VOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	6NYCRR PART 375		SB-03	SB-03	SB-04	SB-04
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_5	0806007_9	0806007_2	0806007_12
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/10/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
Acetone	(ug/kg)	50	100000	28.75 U	26 U	33.64 U	26 U
Acrylonitrile	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
Allyl chloride	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
Benzene	(ug/kg)	60	2900	5.75 U	5.2 U	6.96 U	5.2 U
Bromobenzene	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
Bromochloromethane	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
Bromodichloromethane	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
Bromoform	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
Bromomethane	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
Carbon Disulfide	(ug/kg)		100000	5.75 U	5.2 U	6.96 U	5.2 U
Carbon Tetrachloride	(ug/kg)	760	1400	5.75 U	5.2 U	6.96 U	5.2 U
Chlorobenzene	(ug/kg)	1100	100000	5.75 U	5.2 U	6.96 U	5.2 U
Chlorodifluoromethane	(ug/kg)			28.75 U	26 U	33.64 U	26 U
Chloroethane	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
Chloroform	(ug/kg)	370	10000	5.75 U	5.2 U	6.96 U	5.2 U
Chloromethane	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
Chloroprene	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
cis-1,2-Dichloroethene	(ug/kg)	250	59000	5.75 U	5.2 U	6.96 U	5.2 U
cis-1,3-Dichloropropene	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
Cyclohexane	(ug/kg)			NA	NA	NA	NA
Dibromochloromethane	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
Dibromomethane	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
Dichlorodifluoromethane	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
Diethyl ether	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
Ethanol	(ug/kg)			287.5 U	260 U	290 U	260 U
Ethylbenzene	(ug/kg)	1000	30000	5.75 U	5.2 U	6.96 U	5.2 U
Freon 113	(ug/kg)		100000	5.75 U	5.2 U	6.96 U	5.2 U
Hexachlorobutadiene	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U
Isopropyl Ether	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U

See the Endnotes following the last page of this Table.

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Soil Analytical Results
Volatile Organic Compounds (VOCs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-03		SB-04		SB-04	
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_5	0806007_9	0806007_2	0806007_12	
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/10/2008	
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary	
Isopropylbenzene	(ug/kg)		100000	5.75 U	5.2 U	6.96 U	5.2 U	
m+p-Xylene	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U	
Methacrylonitrile	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U	
Methyl Acetate	(ug/kg)			NA	NA	NA	NA	
Methyl acrylate	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U	
Methyl Cyclohexane	(ug/kg)			NA	NA	NA	NA	
Methyl Tertiary Butyl Ether	(ug/kg)	930	62000	5.75 U	5.2 U	6.96 U	5.2 U	
Methylene Chloride	(ug/kg)	50	51000	5.75 U	5.2 U	6.96 U	5.2 U	
Naphthalene	(ug/kg)	12000	100000	1.3 J	1.1 J	6.96 U	0.89 J	
n-Butylbenzene	(ug/kg)	12000	100000	5.75 U	5.2 U	6.96 U	5.2 U	
n-Propylbenzene	(ug/kg)	3900	100000	0.47 J	0.46 J	6.96 U	0.44 J	
o-Xylene	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U	
p-Isopropyltoluene	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U	
sec-Butylbenzene	(ug/kg)	11000	100000	5.75 U	5.2 U	6.96 U	5.2 U	
Styrene	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U	
tert-amyl alcohol	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U	
tert-Amyl methyl ether	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U	
tert-Buthyl ethyl ether	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U	
tert-Butylbenzene	(ug/kg)	5900	100000	5.75 U	5.2 U	6.96 U	5.2 U	
Tertiary Butyl Alcohol	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U	
Tetrachloroethene	(ug/kg)	1300	5500	5.75 U	5.2 U	6.96 U	5.2 U	
Toluene	(ug/kg)	700	100000	0.52 J	5.2 U	6.96 U	0.43 J	
trans-1,2-Dichloroethene	(ug/kg)	190	100000	5.75 U	5.2 U	6.96 U	5.2 U	
trans-1,3-Dichloropropene	(ug/kg)			NA	NA	NA	NA	
Trichloroethene	(ug/kg)	470	10000	5.75 U	5.2 U	6.96 U	5.2 U	
Trichlorofluoromethane	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U	
Vinyl Acetate	(ug/kg)			5.75 U	5.2 U	6.96 U	5.2 U	
Vinyl chloride	(ug/kg)	20	210	5.75 U	5.2 U	6.96 U	5.2 U	
Xylene (total)	(ug/kg)	260	100000	NA	NA	NA	NA	

See the Endnotes following the last page of this Table.

Table 2
 Soil Analytical Results
 Volatile Organic Compounds (VOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-05		SB-06		SB-06	
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_3	0806007_10	0806007_6	0806007_7	
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/09/2008	
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary	
Starting Depth	(feet)			0.00	38.00	0.00	38.00	
Ending Depth	(feet)			2.00	40.00	2.00	40.00	
1,1,1,2-Tetrachloroethane	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U	
1,1,1-Trichloroethane	(ug/kg)	680	100000	6.96 U	5.25 U	5.7 U	5.15 U	
1,1,2,2-Tetrachloroethane	(ug/kg)		35000	6.96 U	5.25 U	5.7 U	5.15 U	
1,1,2-Trichloroethane	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U	
1,1-Dichloroethane	(ug/kg)	270	19000	6.96 U	5.25 U	5.7 U	5.15 U	
1,1-Dichloroethene	(ug/kg)	330	100000	6.96 U	5.25 U	5.7 U	5.15 U	
1,1-Dichloropropene	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U	
1,2,3-Trichlorobenzene	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U	
1,2,3-Trichloropropane	(ug/kg)		80000	6.96 U	5.25 U	5.7 U	5.15 U	
1,2,4-Trichlorobenzene	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U	
1,2,4-Trimethylbenzene	(ug/kg)	3600	47000	6.96 U	1.9 J	1.6 J	2.0 J	
1,2-Dibromo-3-chloropropane	(ug/kg)			NA	NA	NA	NA	
1,2-Dibromoethane	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U	
1,2-Dichlorobenzene	(ug/kg)	1100	100000	6.96 U	5.25 U	5.7 U	5.15 U	
1,2-Dichloroethane	(ug/kg)	20	2300	6.96 U	5.25 U	5.7 U	5.15 U	
1,2-Dichloropropane	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U	
1,3,5-Trimethylbenzene	(ug/kg)	8400	47000	6.96 U	3.4 J	2.8 J	3.5 J	
1,3-Dichlorobenzene	(ug/kg)	2400	17000	6.96 U	5.25 U	5.7 U	5.15 U	
1,3-Dichloropropane	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U	
1,4-Dichlorobenzene	(ug/kg)	1800	9800	6.96 U	5.25 U	5.7 U	5.15 U	
1,4-Dioxane	(ug/kg)	100	9800	NA	NA	NA	NA	
2-Butanone	(ug/kg)	120	100000	6.96 U	5.25 U	5.7 U	5.15 U	
2-Chlorotoluene	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U	
2-Hexanone	(ug/kg)			NA	NA	NA	NA	
2-Nitropropane	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U	
4-Chlorotoluene	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U	
4-Methyl-2-Pentanone	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U	

See the Endnotes following the last page of this Table.

Table 2
 Soil Analytical Results
 Volatile Organic Compounds (VOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	6NYCRR PART 375		SB-05	SB-05	SB-06	SB-06
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_3	0806007_10	0806007_6	0806007_7
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/09/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
Acetone	(ug/kg)	50	100000	33.64 U	26.25 U	28.5 U	25.75 U
Acrylonitrile	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Allyl chloride	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Benzene	(ug/kg)	60	2900	6.96 U	5.25 U	5.7 U	5.15 U
Bromobenzene	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Bromochloromethane	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Bromodichloromethane	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Bromoform	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Bromomethane	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Carbon Disulfide	(ug/kg)		100000	6.96 U	5.25 U	5.7 U	5.15 U
Carbon Tetrachloride	(ug/kg)	760	1400	6.96 U	5.25 U	5.7 U	5.15 U
Chlorobenzene	(ug/kg)	1100	100000	6.96 U	5.25 U	5.7 U	5.15 U
Chlorodifluoromethane	(ug/kg)			33.64 U	26.25 U	28.5 U	25.75 U
Chloroethane	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Chloroform	(ug/kg)	370	10000	6.96 U	5.25 U	5.7 U	5.15 U
Chloromethane	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Chloroprene	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
cis-1,2-Dichloroethene	(ug/kg)	250	59000	6.96 U	5.25 U	5.7 U	5.15 U
cis-1,3-Dichloropropene	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Cyclohexane	(ug/kg)			NA	NA	NA	NA
Dibromochloromethane	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Dibromomethane	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Dichlorodifluoromethane	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Diethyl ether	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Ethanol	(ug/kg)			290 U	262.5 U	285 U	257.5 U
Ethylbenzene	(ug/kg)	1000	30000	6.96 U	5.25 U	5.7 U	5.15 U
Freon 113	(ug/kg)		100000	6.96 U	5.25 U	5.7 U	5.15 U
Hexachlorobutadiene	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Isopropyl Ether	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U

See the Endnotes following the last page of this Table.

Table 2
Soil Analytical Results
Volatile Organic Compounds (VOCs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-05	SB-05	SB-06	SB-06	
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_3	0806007_10	0806007_6	0806007_7
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/09/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
Isopropylbenzene	(ug/kg)		100000	6.96 U	5.25 U	5.7 U	5.15 U
m+p-Xylene	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Methacrylonitrile	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Methyl Acetate	(ug/kg)			NA	NA	NA	NA
Methyl acrylate	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Methyl Cyclohexane	(ug/kg)			NA	NA	NA	NA
Methyl Tertiary Butyl Ether	(ug/kg)	930	62000	6.96 U	5.25 U	5.7 U	5.15 U
Methylene Chloride	(ug/kg)	50	51000	6.96 U	5.25 U	5.7 U	5.15 U
Naphthalene	(ug/kg)	12000	100000	6.96 U	0.96 J	1.3 J	0.94 J
n-Butylbenzene	(ug/kg)	12000	100000	6.96 U	5.25 U	5.7 U	5.15 U
n-Propylbenzene	(ug/kg)	3900	100000	6.96 U	0.42 J	0.39 J	0.48 J
o-Xylene	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
p-Isopropyltoluene	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
sec-Butylbenzene	(ug/kg)	11000	100000	6.96 U	5.25 U	5.7 U	5.15 U
Styrene	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
tert-amyl alcohol	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
tert-Amyl methyl ether	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
tert-Buthyl ethyl ether	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
tert-Butylbenzene	(ug/kg)	5900	100000	6.96 U	5.25 U	5.7 U	5.15 U
Tertiary Butyl Alcohol	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Tetrachloroethene	(ug/kg)	1300	5500	6.96 U	5.25 U	5.7 U	5.15 U
Toluene	(ug/kg)	700	100000	6.96 U	5.25 U	5.7 U	5.15 U
trans-1,2-Dichloroethene	(ug/kg)	190	100000	6.96 U	5.25 U	5.7 U	5.15 U
trans-1,3-Dichloropropene	(ug/kg)			NA	NA	NA	NA
Trichloroethene	(ug/kg)	470	10000	6.96 U	5.25 U	5.7 U	5.15 U
Trichlorofluoromethane	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Vinyl Acetate	(ug/kg)			6.96 U	5.25 U	5.7 U	5.15 U
Vinyl chloride	(ug/kg)	20	210	6.96 U	5.25 U	5.7 U	5.15 U
Xylene (total)	(ug/kg)	260	100000	NA	NA	NA	NA

See the Endnotes following the last page of this Table.

Table 2
 Soil Analytical Results
 Volatile Organic Compounds (VOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-07	SB-08	SB-09	SB-09	
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-5	JB9125-6	JB9125-12	JB9125-11
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Duplicate 1
Starting Depth	(feet)			13.00	13.00	13.00	13.00
Ending Depth	(feet)			15.00	16.00	15.00	15.00
1,1,1,2-Tetrachloroethane	(ug/kg)			NA	NA	NA	NA
1,1,1-Trichloroethane	(ug/kg)	680	100000	6.0 U	6.1 U	6.2 U	6.2 U
1,1,2,2-Tetrachloroethane	(ug/kg)		35000	6.0 U	6.1 U	6.2 U	6.2 U
1,1,2-Trichloroethane	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U
1,1-Dichloroethane	(ug/kg)	270	19000	6.0 U	6.1 U	6.2 U	6.2 U
1,1-Dichloroethene	(ug/kg)	330	100000	6.0 U	6.1 U	6.2 U	6.2 U
1,1-Dichloropropene	(ug/kg)			NA	NA	NA	NA
1,2,3-Trichlorobenzene	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U
1,2,3-Trichloropropane	(ug/kg)		80000	NA	NA	NA	NA
1,2,4-Trichlorobenzene	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U
1,2,4-Trimethylbenzene	(ug/kg)	3600	47000	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	(ug/kg)			12 U	12 U	12 U	12 U
1,2-Dibromoethane	(ug/kg)			1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichlorobenzene	(ug/kg)	1100	100000	6.0 U	6.1 U	6.2 U	6.2 U
1,2-Dichloroethane	(ug/kg)	20	2300	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloropropane	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U
1,3,5-Trimethylbenzene	(ug/kg)	8400	47000	NA	NA	NA	NA
1,3-Dichlorobenzene	(ug/kg)	2400	17000	6.0 U	6.1 U	6.2 U	6.2 U
1,3-Dichloropropane	(ug/kg)			NA	NA	NA	NA
1,4-Dichlorobenzene	(ug/kg)	1800	9800	6.0 U	6.1 U	6.2 U	6.2 U
1,4-Dioxane	(ug/kg)	100	9800	150 U	150 U	150 U	160 U
2-Butanone	(ug/kg)	120	100000	12 U	12 U	12 U	12 U
2-Chlorotoluene	(ug/kg)			NA	NA	NA	NA
2-Hexanone	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U
2-Nitropropane	(ug/kg)			NA	NA	NA	NA
4-Chlorotoluene	(ug/kg)			NA	NA	NA	NA
4-Methyl-2-Pentanone	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U

See the Endnotes following the last page of this Table.

Table 2
 Soil Analytical Results
 Volatile Organic Compounds (VOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-07		SB-08		SB-09	
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-5	JB9125-6	JB9125-12	JB9125-11	
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012	06/15/2012	
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Duplicate 1	
Acetone	(ug/kg)	50	100000	10.6 J	13.0	19.3	18.9	
Acrylonitrile	(ug/kg)			NA	NA	NA	NA	
Allyl chloride	(ug/kg)			NA	NA	NA	NA	
Benzene	(ug/kg)	60	2900	1.2 U	1.2 U	1.2 U	1.2 U	
Bromobenzene	(ug/kg)			NA	NA	NA	NA	
Bromochloromethane	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U	
Bromodichloromethane	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U	
Bromoform	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U	
Bromomethane	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U	
Carbon Disulfide	(ug/kg)		100000	6.0 U	6.1 U	6.2 U	6.2 U	
Carbon Tetrachloride	(ug/kg)	760	1400	6.0 U	6.1 U	6.2 U	6.2 U	
Chlorobenzene	(ug/kg)	1100	100000	6.0 U	6.1 U	6.2 U	6.2 U	
Chlorodifluoromethane	(ug/kg)			NA	NA	NA	NA	
Chloroethane	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U	
Chloroform	(ug/kg)	370	10000	6.0 U	6.1 U	6.2 U	6.2 U	
Chloromethane	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U	
Chloroprene	(ug/kg)			NA	NA	NA	NA	
cis-1,2-Dichloroethene	(ug/kg)	250	59000	6.0 U	6.1 U	6.2 U	6.2 U	
cis-1,3-Dichloropropene	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U	
Cyclohexane	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U	
Dibromochloromethane	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U	
Dibromomethane	(ug/kg)			NA	NA	NA	NA	
Dichlorodifluoromethane	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U	
Diethyl ether	(ug/kg)			NA	NA	NA	NA	
Ethanol	(ug/kg)			NA	NA	NA	NA	
Ethylbenzene	(ug/kg)	1000	30000	1.2 U	1.2 U	1.2 U	1.2 U	
Freon 113	(ug/kg)		100000	6.0 U	6.1 U	6.2 U	6.2 U	
Hexachlorobutadiene	(ug/kg)			NA	NA	NA	NA	
Isopropyl Ether	(ug/kg)			NA	NA	NA	NA	

See the Endnotes following the last page of this Table.

Table 2
 Soil Analytical Results
 Volatile Organic Compounds (VOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-07	SB-08	SB-09	SB-09	
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-5	JB9125-6	JB9125-12	JB9125-11
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Duplicate 1
Isopropylbenzene	(ug/kg)		100000	6.0 U	6.1 U	6.2 U	6.2 U
m+p-Xylene	(ug/kg)			1.2 U	1.2 U	1.2 U	1.2 U
Methacrylonitrile	(ug/kg)			NA	NA	NA	NA
Methyl Acetate	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U
Methyl acrylate	(ug/kg)			NA	NA	NA	NA
Methyl Cyclohexane	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U
Methyl Tertiary Butyl Ether	(ug/kg)	930	62000	1.2 U	1.2 U	1.2 U	1.2 U
Methylene Chloride	(ug/kg)	50	51000	6.0 U	6.1 U	6.2 U	6.2 U
Naphthalene	(ug/kg)	12000	100000	NA	NA	NA	NA
n-Butylbenzene	(ug/kg)	12000	100000	NA	NA	NA	NA
n-Propylbenzene	(ug/kg)	3900	100000	NA	NA	NA	NA
o-Xylene	(ug/kg)			1.2 U	1.2 U	1.2 U	1.2 U
p-Isopropyltoluene	(ug/kg)			NA	NA	NA	NA
sec-Butylbenzene	(ug/kg)	11000	100000	NA	NA	NA	NA
Styrene	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U
tert-amyl alcohol	(ug/kg)			NA	NA	NA	NA
tert-Amyl methyl ether	(ug/kg)			NA	NA	NA	NA
tert-Buthyl ethyl ether	(ug/kg)			NA	NA	NA	NA
tert-Butylbenzene	(ug/kg)	5900	100000	NA	NA	NA	NA
Tertiary Butyl Alcohol	(ug/kg)			NA	NA	NA	NA
Tetrachloroethene	(ug/kg)	1300	5500	6.0 U	6.1 U	6.2 U	6.2 U
Toluene	(ug/kg)	700	100000	1.2 U	1.2 U	1.2 U	1.2 U
trans-1,2-Dichloroethene	(ug/kg)	190	100000	6.0 U	6.1 U	6.2 U	6.2 U
trans-1,3-Dichloropropene	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U
Trichloroethene	(ug/kg)	470	10000	6.0 U	6.1 U	6.2 U	6.2 U
Trichlorofluoromethane	(ug/kg)			6.0 U	6.1 U	6.2 U	6.2 U
Vinyl Acetate	(ug/kg)			NA	NA	NA	NA
Vinyl chloride	(ug/kg)	20	210	6.0 U	6.1 U	6.2 U	6.2 U
Xylene (total)	(ug/kg)	260	100000	1.2 U	1.2 U	1.2 U	1.2 U

See the Endnotes following the last page of this Table.

Table 2
 Soil Analytical Results
 Volatile Organic Compounds (VOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-10		SB-11	SB-12
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-7	JB9125-8	JB9125-9
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary
Starting Depth	(feet)			13.00	13.00	13.00
Ending Depth	(feet)			15.00	15.00	15.00
1,1,1,2-Tetrachloroethane	(ug/kg)			NA	NA	NA
1,1,1-Trichloroethane	(ug/kg)	680	100000	5.4 U	5.3 U	5.6 U
1,1,2,2-Tetrachloroethane	(ug/kg)		35000	5.4 U	5.3 U	5.6 U
1,1,2-Trichloroethane	(ug/kg)			5.4 U	5.3 U	5.6 U
1,1-Dichloroethane	(ug/kg)	270	19000	5.4 U	5.3 U	5.6 U
1,1-Dichloroethene	(ug/kg)	330	100000	5.4 U	5.3 U	5.6 U
1,1-Dichloropropene	(ug/kg)			NA	NA	NA
1,2,3-Trichlorobenzene	(ug/kg)			5.4 U	5.3 U	5.6 U
1,2,3-Trichloropropane	(ug/kg)		80000	NA	NA	NA
1,2,4-Trichlorobenzene	(ug/kg)			5.4 U	5.3 U	5.6 U
1,2,4-Trimethylbenzene	(ug/kg)	3600	47000	NA	NA	NA
1,2-Dibromo-3-chloropropane	(ug/kg)			11 U	11 U	11 U
1,2-Dibromoethane	(ug/kg)			1.1 U	1.1 U	1.1 U
1,2-Dichlorobenzene	(ug/kg)	1100	100000	5.4 U	5.3 U	5.6 U
1,2-Dichloroethane	(ug/kg)	20	2300	1.1 U	1.1 U	1.1 U
1,2-Dichloropropane	(ug/kg)			5.4 U	5.3 U	5.6 U
1,3,5-Trimethylbenzene	(ug/kg)	8400	47000	NA	NA	NA
1,3-Dichlorobenzene	(ug/kg)	2400	17000	5.4 U	5.3 U	5.6 U
1,3-Dichloropropane	(ug/kg)			NA	NA	NA
1,4-Dichlorobenzene	(ug/kg)	1800	9800	5.4 U	5.3 U	5.6 U
1,4-Dioxane	(ug/kg)	100	9800	140 U	130 U	140 U
2-Butanone	(ug/kg)	120	100000	11 U	11 U	11 U
2-Chlorotoluene	(ug/kg)			NA	NA	NA
2-Hexanone	(ug/kg)			5.4 U	5.3 U	5.6 U
2-Nitropropane	(ug/kg)			NA	NA	NA
4-Chlorotoluene	(ug/kg)			NA	NA	NA
4-Methyl-2-Pentanone	(ug/kg)			5.4 U	5.3 U	5.6 U

See the Endnotes following the last page of this Table.

Table 2
 Soil Analytical Results
 Volatile Organic Compounds (VOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	6NYCRR PART 375		SB-10	SB-11	SB-12
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-7	JB9125-8	JB9125-9
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary
Acetone	(ug/kg)	50	100000	15.6	8.3 J	18.9
Acrylonitrile	(ug/kg)			NA	NA	NA
Allyl chloride	(ug/kg)			NA	NA	NA
Benzene	(ug/kg)	60	2900	1.1 U	1.1 U	1.1 U
Bromobenzene	(ug/kg)			NA	NA	NA
Bromochloromethane	(ug/kg)			5.4 U	5.3 U	5.6 U
Bromodichloromethane	(ug/kg)			5.4 U	5.3 U	5.6 U
Bromoform	(ug/kg)			5.4 U	5.3 U	5.6 U
Bromomethane	(ug/kg)			5.4 U	5.3 U	5.6 U
Carbon Disulfide	(ug/kg)		100000	5.4 U	5.3 U	5.6 U
Carbon Tetrachloride	(ug/kg)	760	1400	5.4 U	5.3 U	5.6 U
Chlorobenzene	(ug/kg)	1100	100000	5.4 U	5.3 U	5.6 U
Chlorodifluoromethane	(ug/kg)			NA	NA	NA
Chloroethane	(ug/kg)			5.4 U	5.3 U	5.6 U
Chloroform	(ug/kg)	370	10000	5.4 U	5.3 U	5.6 U
Chloromethane	(ug/kg)			5.4 U	5.3 U	5.6 U
Chloroprene	(ug/kg)			NA	NA	NA
cis-1,2-Dichloroethene	(ug/kg)	250	59000	5.4 U	5.3 U	5.6 U
cis-1,3-Dichloropropene	(ug/kg)			5.4 U	5.3 U	5.6 U
Cyclohexane	(ug/kg)			5.4 U	5.3 U	5.6 U
Dibromochloromethane	(ug/kg)			5.4 U	5.3 U	5.6 U
Dibromomethane	(ug/kg)			NA	NA	NA
Dichlorodifluoromethane	(ug/kg)			5.4 U	5.3 U	5.6 U
Diethyl ether	(ug/kg)			NA	NA	NA
Ethanol	(ug/kg)			NA	NA	NA
Ethylbenzene	(ug/kg)	1000	30000	1.1 U	1.1 U	1.1 U
Freon 113	(ug/kg)		100000	5.4 U	5.3 U	5.6 U
Hexachlorobutadiene	(ug/kg)			NA	NA	NA
Isopropyl Ether	(ug/kg)			NA	NA	NA

See the Endnotes following the last page of this Table.

Table 2
 Soil Analytical Results
 Volatile Organic Compounds (VOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-10		SB-11	SB-12
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-7	JB9125-8	JB9125-9
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary
Isopropylbenzene	(ug/kg)		100000	5.4 U	5.3 U	5.6 U
m+p-Xylene	(ug/kg)			1.1 U	1.1 U	1.1 U
Methacrylonitrile	(ug/kg)			NA	NA	NA
Methyl Acetate	(ug/kg)			5.4 U	5.3 U	5.6 U
Methyl acrylate	(ug/kg)			NA	NA	NA
Methyl Cyclohexane	(ug/kg)			5.4 U	5.3 U	5.6 U
Methyl Tertiary Butyl Ether	(ug/kg)	930	62000	1.1 U	1.1 U	1.1 U
Methylene Chloride	(ug/kg)	50	51000	5.4 U	5.3 U	6.8
Naphthalene	(ug/kg)	12000	100000	NA	NA	NA
n-Butylbenzene	(ug/kg)	12000	100000	NA	NA	NA
n-Propylbenzene	(ug/kg)	3900	100000	NA	NA	NA
o-Xylene	(ug/kg)			1.1 U	1.1 U	1.1 U
p-Isopropyltoluene	(ug/kg)			NA	NA	NA
sec-Butylbenzene	(ug/kg)	11000	100000	NA	NA	NA
Styrene	(ug/kg)			5.4 U	5.3 U	5.6 U
tert-amyl alcohol	(ug/kg)			NA	NA	NA
tert-Amyl methyl ether	(ug/kg)			NA	NA	NA
tert-Buthyl ethyl ether	(ug/kg)			NA	NA	NA
tert-Butylbenzene	(ug/kg)	5900	100000	NA	NA	NA
Tertiary Butyl Alcohol	(ug/kg)			NA	NA	NA
Tetrachloroethene	(ug/kg)	1300	5500	5.4 U	5.3 U	5.6 U
Toluene	(ug/kg)	700	100000	1.1 U	1.1 U	1.1 U
trans-1,2-Dichloroethene	(ug/kg)	190	100000	5.4 U	5.3 U	5.6 U
trans-1,3-Dichloropropene	(ug/kg)			5.4 U	5.3 U	5.6 U
Trichloroethene	(ug/kg)	470	10000	5.4 U	5.3 U	5.6 U
Trichlorofluoromethane	(ug/kg)			5.4 U	5.3 U	5.6 U
Vinyl Acetate	(ug/kg)			NA	NA	NA
Vinyl chloride	(ug/kg)	20	210	5.4 U	5.3 U	5.6 U
Xylene (total)	(ug/kg)	260	100000	1.1 U	1.1 U	1.1 U

See the Endnotes following the last page of this Table.

Table 2
Soil Analytical Results
Volatile Organic Compounds (VOCs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

Notes:

- $\mu\text{g}/\text{kg}$ = micrograms per kilogram (parts per billion; ppb).
- All depth measurements are in feet (ft) below ground surface.
- 6NYCRR Part 375 Unrestricted SCO = New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objective (SCO) as presented in Title 6 of the Official Compilation of New York Codes, Rules and Regulations (6 NYCRR) Subpart 375-6.8(b).
- 6NYCRR Part 375 AND CP-51 RESIDENTIAL = New York State Department of Environmental Conservation (NYSDEC) Restricted Soil Cleanup Objective (SCO) Residential as presented in Title 6 of the Official Compilation of New York Codes, Rules and Regulations (6 NYCRR) Subpart 375-6.8(b). Includes Final Commissioner Policy CP-51 / Soil Cleanup Guidance, October 21, 2010.
- Bracketed and highlighted values indicate a positive concentration that exceeds the lower of the two SCO.
- NA – Compound not analyzed for.

Qualifiers

no qualifier	The compound was positively identified at the associated numerical value which is the concentration of the compound in the sample.
U	Non-Detect. The compound was analyzed for, but not detected. The associated numerical value is the reporting limit. The value is usable as a non-detect at the reporting limit.
J	Estimated value. The compound was detected at a concentration below the reporting limit but greater than the method detection limit (MDL). The value is usable as an estimated result.

Table 3
 Soil Analytical Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-01		SB-01		SB-02	
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_1	0806007_13	0806007_4	0806007_11	
	DATE	Unrestricted	AND CP-51	06/09/2008	06/10/2008	06/09/2008	06/10/2008	
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary	
Starting Depth	(feet)			0.00	38.00	0.00	39.00	
Ending Depth	(feet)			2.00	40.00	2.00	41.00	
1,2,4,5-Tetrachlorobenzene	(ug/kg)			NA	NA	NA	NA	
1,2,4-Trichlorobenzene	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U	
1,2-Dichlorobenzene	(ug/kg)	1100	100000	193.32 U	172.64 U	175.96 U	172.64 U	
1,3-Dichlorobenzene	(ug/kg)	2400	17000	193.32 U	172.64 U	175.96 U	172.64 U	
1,4-Dichlorobenzene	(ug/kg)	1800	9800	193.32 U	172.64 U	175.96 U	172.64 U	
2,2'-oxybis(1-Chloropropane)	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U	
2,3,4,6-Tetrachlorophenol	(ug/kg)			NA	NA	NA	NA	
2,4,5-Trichlorophenol	(ug/kg)		100000	193.32 U	172.64 U	175.96 U	172.64 U	
2,4,6-Trichlorophenol	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U	
2,4-Dichlorophenol	(ug/kg)		100000	193.32 U	172.64 U	175.96 U	172.64 U	
2,4-Dimethylphenol	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U	
2,4-Dinitrophenol	(ug/kg)		100000	193.32 U	172.64 U	175.96 U	172.64 U	
2,4-Dinitrotoluene	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U	
2,6-Dinitrotoluene	(ug/kg)		1030	193.32 U	172.64 U	175.96 U	172.64 U	
2-Chloronaphthalene	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U	
2-Chlorophenol	(ug/kg)		100000	193.32 U	172.64 U	175.96 U	172.64 U	
2-Methylnaphthalene	(ug/kg)		410	193.32 U	172.64 U	175.96 U	172.64 U	
3,3-Dichlorobenzidine	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U	
4,6-Dinitro-o-cresol	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U	
4-Bromophenyl phenyl ether	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U	
4-Chlorophenyl phenyl ether	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U	
Acenaphthene	(ug/kg)	20000	100000	193.32 U	172.64 U	175.96 U	172.64 U	
Acenaphthylene	(ug/kg)	100000	100000	193.32 U	172.64 U	175.96 U	172.64 U	
Acetophenone	(ug/kg)			NA	NA	NA	NA	
Anthracene	(ug/kg)	100000	100000	193.32 U	172.64 U	175.96 U	172.64 U	
Atrazine	(ug/kg)			NA	NA	NA	NA	
Benzaldehyde	(ug/kg)			NA	NA	NA	NA	

See the Endnotes following the last page of this Table.

Table 3
Soil Analytical Results
Semivolatile Organic Compounds (SVOCs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	6NYCRR PART 375		SB-01	SB-01	SB-02	SB-02
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_1	0806007_13	0806007_4	0806007_11
	DATE	Unrestricted	AND CP-51	06/09/2008	06/10/2008	06/09/2008	06/10/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
Benzo(a)anthracene	(ug/kg)	1000	1000	193.32 U	172.64 U	175.96 U	172.64 U
Benzo(a)pyrene	(ug/kg)	1000	1000	193.32 U	172.64 U	175.96 U	172.64 U
Benzo(b)fluoranthene	(ug/kg)	1000	1000	193.32 U	172.64 U	175.96 U	172.64 U
Benzo(ghi)perylene	(ug/kg)	100000	100000	193.32 U	172.64 U	175.96 U	172.64 U
Benzo(k)fluoranthene	(ug/kg)	800	1000	193.32 U	172.64 U	175.96 U	172.64 U
Biphenyl	(ug/kg)			NA	NA	NA	NA
Bis(2-chloroethoxy)methane	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
Bis(2-chloroethyl)ether	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
Bis(2-chloroisopropyl)ether	(ug/kg)			NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate (BEHP)	(ug/kg)		50000	1166.4 U	1040 U	1060 U	1040 U
Butyl benzyl phthalate	(ug/kg)		100000	193.32 U	172.64 U	175.96 U	172.64 U
Caprolactam	(ug/kg)			NA	NA	NA	NA
Carbazole	(ug/kg)			NA	NA	NA	NA
Chrysene	(ug/kg)	1000	1000	193.32 U	172.64 U	175.96 U	172.64 U
Dibenzo(a,h)anthracene	(ug/kg)	330	330	193.32 U	172.64 U	175.96 U	172.64 U
Dibenzofuran	(ug/kg)	7000	14000	193.32 U	172.64 U	175.96 U	172.64 U
Diethyl phthalate	(ug/kg)		100000	193.32 U	172.64 U	175.96 U	172.64 U
Dimethyl phthalate	(ug/kg)		100000	193.32 U	172.64 U	175.96 U	172.64 U
Di-n-butyl phthalate	(ug/kg)		100000	1166.4 U	1040 U	1060 U	1040 U
Di-n-octyl phthalate	(ug/kg)		100000	193.32 U	172.64 U	175.96 U	172.64 U
Fluoranthene	(ug/kg)	100000	100000	193.32 U	172.64 U	175.96 U	172.64 U
Fluorene	(ug/kg)	30000	100000	193.32 U	172.64 U	175.96 U	172.64 U
Hexachlorobenzene	(ug/kg)	330	410	193.32 U	172.64 U	175.96 U	172.64 U
Hexachlorobutadiene	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
Hexachlorocyclopentadiene	(ug/kg)			233.28 U	208 U	212 U	208 U
Hexachloroethane	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
Indeno(1,2,3-cd)pyrene	(ug/kg)	500	500	193.32 U	172.64 U	175.96 U	172.64 U
Isophorone	(ug/kg)		100000	193.32 U	172.64 U	175.96 U	172.64 U
m+p-Cresol	(ug/kg)			NA	NA	NA	NA

See the Endnotes following the last page of this Table.

Table 3
 Soil Analytical Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE			SB-01	SB-01	SB-02	SB-02
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_1	0806007_13	0806007_4	0806007_11
	DATE	Unrestricted	AND CP-51	06/09/2008	06/10/2008	06/09/2008	06/10/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
m-Nitroaniline	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
Naphthalene	(ug/kg)	12000	100000	193.32 U	172.64 U	175.96 U	172.64 U
Nitrobenzene	(ug/kg)		3700	193.32 U	172.64 U	175.96 U	172.64 U
N-Nitrosodiphenylamine	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
N-Nitrosodipropylamine	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
o-Cresol	(ug/kg)	330	100000	193.32 U	172.64 U	175.96 U	172.64 U
o-Nitroaniline	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
o-Nitrophenol	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
p-Chloroaniline	(ug/kg)		100000	193.32 U	172.64 U	175.96 U	172.64 U
p-Chloro-m-cresol	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
p-Cresol	(ug/kg)	330	34000	193.32 U	172.64 U	175.96 U	172.64 U
Pentachlorophenol	(ug/kg)	800	2400	193.32 U	172.64 U	175.96 U	172.64 U
Phenanthrene	(ug/kg)	100000	100000	193.32 U	172.64 U	175.96 U	172.64 U
Phenol	(ug/kg)	330	100000	193.32 U	172.64 U	175.96 U	172.64 U
p-Nitroaniline	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
p-Nitrophenol	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
Pyrene	(ug/kg)	100000	100000	193.32 U	172.64 U	559.68	172.64 U

See the Endnotes following the last page of this Table.

Table 3
 Soil Analytical Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	6NYCRR PART 375	6NYCRR PART 375	SB-03	SB-03	SB-04	SB-04
	LAB SAMPLE ID			0806007_5	0806007_9	0806007_2	0806007_12
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/10/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
Starting Depth	(feet)			0.00	38.00	0.00	38.00
Ending Depth	(feet)			2.00	40.00	2.00	40.00
1,2,4,5-Tetrachlorobenzene	(ug/kg)			NA	NA	NA	NA
1,2,4-Trichlorobenzene	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
1,2-Dichlorobenzene	(ug/kg)	1100	100000	190.9 U	172.64 U	192.56 U	172.64 U
1,3-Dichlorobenzene	(ug/kg)	2400	17000	190.9 U	172.64 U	192.56 U	172.64 U
1,4-Dichlorobenzene	(ug/kg)	1800	9800	190.9 U	172.64 U	223.88 U	172.64 U
2,2'-oxybis(1-Chloropropane)	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
2,3,4,6-Tetrachlorophenol	(ug/kg)			NA	NA	NA	NA
2,4,5-Trichlorophenol	(ug/kg)		100000	190.9 U	172.64 U	192.56 U	172.64 U
2,4,6-Trichlorophenol	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
2,4-Dichlorophenol	(ug/kg)		100000	190.9 U	172.64 U	192.56 U	172.64 U
2,4-Dimethylphenol	(ug/kg)			190.9 U	172.64 U	223.88 U	172.64 U
2,4-Dinitrophenol	(ug/kg)		100000	190.9 U	172.64 U	192.56 U	172.64 U
2,4-Dinitrotoluene	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
2,6-Dinitrotoluene	(ug/kg)		1030	190.9 U	172.64 U	192.56 U	172.64 U
2-Chloronaphthalene	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
2-Chlorophenol	(ug/kg)		100000	190.9 U	172.64 U	192.56 U	172.64 U
2-Methylnaphthalene	(ug/kg)		410	190.9 U	172.64 U	192.56 U	172.64 U
3,3-Dichlorobenzidine	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
4,6-Dinitro-o-cresol	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
4-Bromophenyl phenyl ether	(ug/kg)			190.9 U	172.64 U	223.88 U	172.64 U
4-Chlorophenyl phenyl ether	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
Acenaphthene	(ug/kg)	20000	100000	190.9 U	172.64 U	192.56 U	172.64 U
Acenaphthylene	(ug/kg)	100000	100000	190.9 U	172.64 U	192.56 U	172.64 U
Acetophenone	(ug/kg)			NA	NA	NA	NA
Anthracene	(ug/kg)	100000	100000	190.9 U	172.64 U	192.56 U	172.64 U
Atrazine	(ug/kg)			NA	NA	NA	NA
Benzaldehyde	(ug/kg)			NA	NA	NA	NA

See the Endnotes following the last page of this Table.

Table 3
 Soil Analytical Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	6NYCRR PART 375		SB-03	SB-03	SB-04	SB-04
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_5	0806007_9	0806007_2	0806007_12
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/10/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
Benzo(a)anthracene	(ug/kg)	1000	1000	190.9 U	172.64 U	192.56 U	172.64 U
Benzo(a)pyrene	(ug/kg)	1000	1000	190.9 U	172.64 U	192.56 U	172.64 U
Benzo(b)fluoranthene	(ug/kg)	1000	1000	190.9 U	172.64 U	192.56 U	172.64 U
Benzo(ghi)perylene	(ug/kg)	100000	100000	190.9 U	172.64 U	192.56 U	172.64 U
Benzo(k)fluoranthene	(ug/kg)	800	1000	190.9 U	172.64 U	192.56 U	172.64 U
Biphenyl	(ug/kg)			NA	NA	NA	NA
Bis(2-chloroethoxy)methane	(ug/kg)			190.9 U	172.64 U	223.88 U	172.64 U
Bis(2-chloroethyl)ether	(ug/kg)			190.9 U	172.64 U	223.88 U	172.64 U
Bis(2-chloroisopropyl)ether	(ug/kg)			NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate (BEHP)	(ug/kg)		50000	1150 U	1040 U	1160 U	1040 U
Butyl benzyl phthalate	(ug/kg)		100000	190.9 U	172.64 U	192.56 U	172.64 U
Caprolactam	(ug/kg)			NA	NA	NA	NA
Carbazole	(ug/kg)			NA	NA	NA	NA
Chrysene	(ug/kg)	1000	1000	190.9 U	172.64 U	192.56 U	172.64 U
Dibenzo(a,h)anthracene	(ug/kg)	330	330	190.9 U	172.64 U	192.56 U	172.64 U
Dibenzofuran	(ug/kg)	7000	14000	190.9 U	172.64 U	192.56 U	172.64 U
Diethyl phthalate	(ug/kg)		100000	190.9 U	172.64 U	192.56 U	172.64 U
Dimethyl phthalate	(ug/kg)		100000	190.9 U	172.64 U	192.56 U	172.64 U
Di-n-butyl phthalate	(ug/kg)		100000	1150 U	1040 U	1160 U	1040 U
Di-n-octyl phthalate	(ug/kg)		100000	190.9 U	172.64 U	192.56 U	172.64 U
Fluoranthene	(ug/kg)	100000	100000	190.9 U	172.64 U	192.56 U	172.64 U
Fluorene	(ug/kg)	30000	100000	190.9 U	172.64 U	192.56 U	172.64 U
Hexachlorobenzene	(ug/kg)	330	410	190.9 U	172.64 U	192.56 U	172.64 U
Hexachlorobutadiene	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
Hexachlorocyclopentadiene	(ug/kg)			230 U	208 U	232 U	208 U
Hexachloroethane	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
Indeno(1,2,3-cd)pyrene	(ug/kg)	500	500	190.9 U	172.64 U	192.56 U	172.64 U
Isophorone	(ug/kg)		100000	190.9 U	172.64 U	192.56 U	172.64 U
m+p-Cresol	(ug/kg)			NA	NA	NA	NA

See the Endnotes following the last page of this Table.

Table 3
 Soil Analytical Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE			SB-03	SB-03	SB-04	SB-04
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_5	0806007_9	0806007_2	0806007_12
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/10/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
m-Nitroaniline	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
Naphthalene	(ug/kg)	12000	100000	190.9 U	172.64 U	192.56 U	172.64 U
Nitrobenzene	(ug/kg)		3700	190.9 U	172.64 U	192.56 U	172.64 U
N-Nitrosodiphenylamine	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
N-Nitrosodipropylamine	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
o-Cresol	(ug/kg)	330	100000	190.9 U	172.64 U	192.56 U	172.64 U
o-Nitroaniline	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
o-Nitrophenol	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
p-Chloroaniline	(ug/kg)		100000	190.9 U	172.64 U	223.88 U	172.64 U
p-Chloro-m-cresol	(ug/kg)			190.9 U	172.64 U	192.56 U	172.64 U
p-Cresol	(ug/kg)	330	34000	190.9 U	172.64 U	223.88 U	172.64 U
Pentachlorophenol	(ug/kg)	800	2400	190.9 U	172.64 U	192.56 U	172.64 U
Phenanthrene	(ug/kg)	100000	100000	190.9 U	172.64 U	192.56 U	172.64 U
Phenol	(ug/kg)	330	100000	190.9 U	172.64 U	223.88 U	172.64 U
p-Nitroaniline	(ug/kg)			190.9 U	172.64 U	223.88 U	172.64 U
p-Nitrophenol	(ug/kg)			190.9 U	172.64 U	223.88 U	172.64 U
Pyrene	(ug/kg)	100000	100000	190.9 U	172.64 U	192.56 U	172.64 U

See the Endnotes following the last page of this Table.

Table 3
 Soil Analytical Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-05		SB-05		SB-06	
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_3	0806007_10	0806007_6	0806007_7	
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/09/2008	
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary	
Starting Depth	(feet)			0.00	38.00	0.00	38.00	
Ending Depth	(feet)			2.00	40.00	2.00	40.00	
1,2,4,5-Tetrachlorobenzene	(ug/kg)			NA	NA	NA	NA	
1,2,4-Trichlorobenzene	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U	
1,2-Dichlorobenzene	(ug/kg)	1100	100000	192.56 U	174.3 U	189.24 U	170.98 U	
1,3-Dichlorobenzene	(ug/kg)	2400	17000	192.56 U	174.3 U	189.24 U	170.98 U	
1,4-Dichlorobenzene	(ug/kg)	1800	9800	192.56 U	174.3 U	189.24 U	170.98 U	
2,2'-oxybis(1-Chloropropane)	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U	
2,3,4,6-Tetrachlorophenol	(ug/kg)			NA	NA	NA	NA	
2,4,5-Trichlorophenol	(ug/kg)		100000	192.56 U	174.3 U	189.24 U	170.98 U	
2,4,6-Trichlorophenol	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U	
2,4-Dichlorophenol	(ug/kg)		100000	192.56 U	174.3 U	189.24 U	170.98 U	
2,4-Dimethylphenol	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U	
2,4-Dinitrophenol	(ug/kg)		100000	192.56 U	174.3 U	189.24 U	170.98 U	
2,4-Dinitrotoluene	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U	
2,6-Dinitrotoluene	(ug/kg)		1030	192.56 U	174.3 U	189.24 U	170.98 U	
2-Chloronaphthalene	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U	
2-Chlorophenol	(ug/kg)		100000	192.56 U	174.3 U	189.24 U	170.98 U	
2-Methylnaphthalene	(ug/kg)		410	192.56 U	174.3 U	189.24 U	170.98 U	
3,3-Dichlorobenzidine	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U	
4,6-Dinitro-o-cresol	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U	
4-Bromophenyl phenyl ether	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U	
4-Chlorophenyl phenyl ether	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U	
Acenaphthene	(ug/kg)	20000	100000	1088.08	174.3 U	189.24 U	170.98 U	
Acenaphthylene	(ug/kg)	100000	100000	192.56 U	174.3 U	189.24 U	170.98 U	
Acetophenone	(ug/kg)			NA	NA	NA	NA	
Anthracene	(ug/kg)	100000	100000	2262	174.3 U	189.24 U	170.98 U	
Atrazine	(ug/kg)			NA	NA	NA	NA	
Benzaldehyde	(ug/kg)			NA	NA	NA	NA	

See the Endnotes following the last page of this Table.

Table 3
 Soil Analytical Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE			SB-05	SB-05	SB-06	SB-06
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_3	0806007_10	0806007_6	0806007_7
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/09/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
Benzo(a)anthracene	(ug/kg)	1000	1000	[5231.6]	174.3 U	189.24 U	170.98 U
Benzo(a)pyrene	(ug/kg)	1000	1000	[61480]	174.3 U	189.24 U	170.98 U
Benzo(b)fluoranthene	(ug/kg)	1000	1000	[40600]	174.3 U	189.24 U	170.98 U
Benzo(ghi)perylene	(ug/kg)	100000	100000	27840	174.3 U	189.24 U	170.98 U
Benzo(k)fluoranthene	(ug/kg)	800	1000	[62640]	174.3 U	189.24 U	170.98 U
Biphenyl	(ug/kg)			NA	NA	NA	NA
Bis(2-chloroethoxy)methane	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
Bis(2-chloroethyl)ether	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
Bis(2-chloroisopropyl)ether	(ug/kg)			NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate (BEHP)	(ug/kg)		50000	1160 U	1050 U	1140 U	1030 U
Butyl benzyl phthalate	(ug/kg)		100000	192.56 U	174.3 U	189.24 U	170.98 U
Caprolactam	(ug/kg)			NA	NA	NA	NA
Carbazole	(ug/kg)			NA	NA	NA	NA
Chrysene	(ug/kg)	1000	1000	[5568]	174.3 U	189.24 U	170.98 U
Dibenzo(a,h)anthracene	(ug/kg)	330	330	192.56 U	174.3 U	189.24 U	170.98 U
Dibenzofuran	(ug/kg)	7000	14000	192.56 U	174.3 U	189.24 U	170.98 U
Diethyl phthalate	(ug/kg)		100000	192.56 U	174.3 U	189.24 U	170.98 U
Dimethyl phthalate	(ug/kg)		100000	192.56 U	174.3 U	189.24 U	170.98 U
Di-n-butyl phthalate	(ug/kg)		100000	1160 U	1050 U	1140 U	1030 U
Di-n-octyl phthalate	(ug/kg)		100000	192.56 U	174.3 U	189.24 U	170.98 U
Fluoranthene	(ug/kg)	100000	100000	192.56 U	174.3 U	189.24 U	170.98 U
Fluorene	(ug/kg)	30000	100000	816.64	174.3 U	189.24 U	170.98 U
Hexachlorobenzene	(ug/kg)	330	410	192.56 U	174.3 U	189.24 U	170.98 U
Hexachlorobutadiene	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
Hexachlorocyclopentadiene	(ug/kg)			232 U	210 U	228 U	206 U
Hexachloroethane	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
Indeno(1,2,3-cd)pyrene	(ug/kg)	500	500	[33640]	174.3 U	189.24 U	170.98 U
Isophorone	(ug/kg)		100000	192.56 U	174.3 U	189.24 U	170.98 U
m+p-Cresol	(ug/kg)			NA	NA	NA	NA

See the Endnotes following the last page of this Table.

Table 3
 Soil Analytical Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	6NYCRR PART 375		SB-05	SB-05	SB-06	SB-06
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_3	0806007_10	0806007_6	0806007_7
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/09/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
m-Nitroaniline	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
Naphthalene	(ug/kg)	12000	100000	1357.2	174.3 U	189.24 U	170.98 U
Nitrobenzene	(ug/kg)		3700	192.56 U	174.3 U	189.24 U	170.98 U
N-Nitrosodiphenylamine	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
N-Nitrosodipropylamine	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
o-Cresol	(ug/kg)	330	100000	192.56 U	174.3 U	189.24 U	170.98 U
o-Nitroaniline	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
o-Nitrophenol	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
p-Chloroaniline	(ug/kg)		100000	192.56 U	174.3 U	189.24 U	170.98 U
p-Chloro-m-cresol	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
p-Cresol	(ug/kg)	330	34000	192.56 U	174.3 U	189.24 U	170.98 U
Pentachlorophenol	(ug/kg)	800	2400	192.56 U	174.3 U	189.24 U	170.98 U
Phenanthrene	(ug/kg)	100000	100000	11716	174.3 U	189.24 U	170.98 U
Phenol	(ug/kg)	330	100000	192.56 U	174.3 U	189.24 U	170.98 U
p-Nitroaniline	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
p-Nitrophenol	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
Pyrene	(ug/kg)	100000	100000	14964	174.3 U	189.24 U	170.98 U

See the Endnotes following the last page of this Table.

Table 3
 Soil Analytical Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-07		SB-08		SB-09	
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-5	JB9125-6	JB9125-12	JB9125-11	
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012	06/15/2012	
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Duplicate 1	
Starting Depth	(feet)			13.00	13.00	13.00	13.00	
Ending Depth	(feet)			15.00	16.00	15.00	15.00	
1,2,4,5-Tetrachlorobenzene	(ug/kg)			150 U	160 U	150 U	150 U	
1,2,4-Trichlorobenzene	(ug/kg)			NA	NA	NA	NA	
1,2-Dichlorobenzene	(ug/kg)	1100	100000	NA	NA	NA	NA	
1,3-Dichlorobenzene	(ug/kg)	2400	17000	NA	NA	NA	NA	
1,4-Dichlorobenzene	(ug/kg)	1800	9800	NA	NA	NA	NA	
2,2'-oxybis(1-Chloropropane)	(ug/kg)			NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	(ug/kg)			150 U	160 U	150 U	150 U	
2,4,5-Trichlorophenol	(ug/kg)		100000	150 U	160 U	150 U	150 U	
2,4,6-Trichlorophenol	(ug/kg)			150 U	160 U	150 U	150 U	
2,4-Dichlorophenol	(ug/kg)		100000	150 U	160 U	150 U	150 U	
2,4-Dimethylphenol	(ug/kg)			150 U	160 U	150 U	150 U	
2,4-Dinitrophenol	(ug/kg)		100000	580 U	620 U	600 U	610 U	
2,4-Dinitrotoluene	(ug/kg)			58 U	62 U	60 U	61 U	
2,6-Dinitrotoluene	(ug/kg)		1030	58 U	62 U	60 U	61 U	
2-Chloronaphthalene	(ug/kg)			58 U	62 U	60 U	61 U	
2-Chlorophenol	(ug/kg)		100000	150 U	160 U	150 U	150 U	
2-Methylnaphthalene	(ug/kg)		410	58 U	62 U	60 U	61 U	
3,3-Dichlorobenzidine	(ug/kg)			150 U	160 U	150 U	150 U	
4,6-Dinitro-o-cresol	(ug/kg)			580 U	620 U	600 U	610 U	
4-Bromophenyl phenyl ether	(ug/kg)			58 U	62 U	60 U	61 U	
4-Chlorophenyl phenyl ether	(ug/kg)			58 U	62 U	60 U	61 U	
Acenaphthene	(ug/kg)	20000	100000	29 U	41.1	30 U	31 U	
Acenaphthylene	(ug/kg)	100000	100000	29 U	31 U	30 U	31 U	
Acetophenone	(ug/kg)			150 U	160 U	150 U	150 U	
Anthracene	(ug/kg)	100000	100000	29 U	84.2	30 U	31 U	
Atrazine	(ug/kg)			150 U	160 U	150 U	150 U	
Benzaldehyde	(ug/kg)			150 U	160 U	150 U	150 U	

See the Endnotes following the last page of this Table.

Table 3
Soil Analytical Results
Semivolatile Organic Compounds (SVOCs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	6NYCRR PART 375		SB-07	SB-08	SB-09	SB-09
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-5	JB9125-6	JB9125-12	JB9125-11
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Duplicate 1
Benzo(a)anthracene	(ug/kg)	1000	1000	29 U	231	30 U	31 U
Benzo(a)pyrene	(ug/kg)	1000	1000	29 U	215	30 U	31 U
Benzo(b)fluoranthene	(ug/kg)	1000	1000	29 U	284	30 U	31 U
Benzo(ghi)perylene	(ug/kg)	100000	100000	29 U	146	30 U	31 U
Benzo(k)fluoranthene	(ug/kg)	800	1000	29 U	90.1	30 U	31 U
Biphenyl	(ug/kg)			58 U	62 U	60 U	61 U
Bis(2-chloroethoxy)methane	(ug/kg)			58 U	62 U	60 U	61 U
Bis(2-chloroethyl)ether	(ug/kg)			58 U	62 U	60 U	61 U
Bis(2-chloroisopropyl)ether	(ug/kg)			58 U	62 U	60 U	61 U
Bis(2-ethylhexyl)phthalate (BEHP)	(ug/kg)		50000	58 U	62 U	60 U	61 U
Butyl benzyl phthalate	(ug/kg)		100000	58 U	62 U	60 U	61 U
Caprolactam	(ug/kg)			58 U	62 U	60 U	61 U
Carbazole	(ug/kg)			58 U	47.1 J	60 U	61 U
Chrysene	(ug/kg)	1000	1000	29 U	234	30 U	31 U
Dibenzo(a,h)anthracene	(ug/kg)	330	330	29 U	36.4	30 U	31 U
Dibenzofuran	(ug/kg)	7000	14000	58 U	22.3 J	60 U	61 U
Diethyl phthalate	(ug/kg)		100000	58 U	62 U	60 U	61 U
Dimethyl phthalate	(ug/kg)		100000	58 U	62 U	60 U	61 U
Di-n-butyl phthalate	(ug/kg)		100000	58 U	62 U	60 U	61 U
Di-n-octyl phthalate	(ug/kg)		100000	58 U	62 U	60 U	61 U
Fluoranthene	(ug/kg)	100000	100000	29 U	510	30 U	31 U
Fluorene	(ug/kg)	30000	100000	29 U	39.1	30 U	31 U
Hexachlorobenzene	(ug/kg)	330	410	58 U	62 U	60 U	61 U
Hexachlorobutadiene	(ug/kg)			29 U	31 U	30 U	31 U
Hexachlorocyclopentadiene	(ug/kg)			290 U	310 U	300 U	310 U
Hexachloroethane	(ug/kg)			150 U	160 U	150 U	150 U
Indeno(1,2,3-cd)pyrene	(ug/kg)	500	500	29 U	132	30 U	31 U
Isophorone	(ug/kg)		100000	58 U	62 U	60 U	61 U
m+p-Cresol	(ug/kg)			58 U	62 U	60 U	61 U

See the Endnotes following the last page of this Table.

Table 3
 Soil Analytical Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE			SB-07	SB-08	SB-09	SB-09
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-5	JB9125-6	JB9125-12	JB9125-11
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Duplicate 1
m-Nitroaniline	(ug/kg)			150 U	160 U	150 U	150 U
Naphthalene	(ug/kg)	12000	100000	29 U	23.3 J	30 U	31 U
Nitrobenzene	(ug/kg)		3700	58 U	62 U	60 U	61 U
N-Nitrosodiphenylamine	(ug/kg)			150 U	160 U	150 U	150 U
N-Nitrosodipropylamine	(ug/kg)			58 U	62 U	60 U	61 U
o-Cresol	(ug/kg)	330	100000	58 U	62 U	60 U	61 U
o-Nitroaniline	(ug/kg)			150 U	160 U	150 U	150 U
o-Nitrophenol	(ug/kg)			150 U	160 U	150 U	150 U
p-Chloroaniline	(ug/kg)		100000	150 U	160 U	150 U	150 U
p-Chloro-m-cresol	(ug/kg)			150 U	160 U	150 U	150 U
p-Cresol	(ug/kg)	330	34000	NA	NA	NA	NA
Pentachlorophenol	(ug/kg)	800	2400	290 U	310 U	300 U	310 U
Phenanthrene	(ug/kg)	100000	100000	29 U	400	30 U	31 U
Phenol	(ug/kg)	330	100000	58 U	62 U	60 U	61 U
p-Nitroaniline	(ug/kg)			150 U	160 U	150 U	150 U
p-Nitrophenol	(ug/kg)			290 U	310 U	300 U	310 U
Pyrene	(ug/kg)	100000	100000	29 U	462	30 U	31 U

See the Endnotes following the last page of this Table.

Table 3
 Soil Analytical Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-10		SB-11	SB-12
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-7	JB9125-8	JB9125-9
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary
Starting Depth	(feet)			13.00	13.00	13.00
Ending Depth	(feet)			15.00	15.00	15.00
1,2,4,5-Tetrachlorobenzene	(ug/kg)			150 U	150 U	150 U
1,2,4-Trichlorobenzene	(ug/kg)			NA	NA	NA
1,2-Dichlorobenzene	(ug/kg)	1100	100000	NA	NA	NA
1,3-Dichlorobenzene	(ug/kg)	2400	17000	NA	NA	NA
1,4-Dichlorobenzene	(ug/kg)	1800	9800	NA	NA	NA
2,2'-oxybis(1-Chloropropane)	(ug/kg)			NA	NA	NA
2,3,4,6-Tetrachlorophenol	(ug/kg)			150 U	150 U	150 U
2,4,5-Trichlorophenol	(ug/kg)		100000	150 U	150 U	150 U
2,4,6-Trichlorophenol	(ug/kg)			150 U	150 U	150 U
2,4-Dichlorophenol	(ug/kg)		100000	150 U	150 U	150 U
2,4-Dimethylphenol	(ug/kg)			150 U	150 U	150 U
2,4-Dinitrophenol	(ug/kg)		100000	610 U	590 U	610 U
2,4-Dinitrotoluene	(ug/kg)			61 U	59 U	61 U
2,6-Dinitrotoluene	(ug/kg)		1030	61 U	59 U	61 U
2-Chloronaphthalene	(ug/kg)			61 U	59 U	61 U
2-Chlorophenol	(ug/kg)		100000	150 U	150 U	150 U
2-Methylnaphthalene	(ug/kg)		410	61 U	59 U	61 U
3,3-Dichlorobenzidine	(ug/kg)			150 U	150 U	150 U
4,6-Dinitro-o-cresol	(ug/kg)			610 U	590 U	610 U
4-Bromophenyl phenyl ether	(ug/kg)			61 U	59 U	61 U
4-Chlorophenyl phenyl ether	(ug/kg)			61 U	59 U	61 U
Acenaphthene	(ug/kg)	20000	100000	30 U	30 U	31 U
Acenaphthylene	(ug/kg)	100000	100000	30 U	30 U	31 U
Acetophenone	(ug/kg)			150 U	150 U	150 U
Anthracene	(ug/kg)	100000	100000	30 U	30 U	31 U
Atrazine	(ug/kg)			150 U	150 U	150 U
Benzaldehyde	(ug/kg)			150 U	150 U	150 U

See the Endnotes following the last page of this Table.

Table 3
 Soil Analytical Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	6NYCRR PART 375		SB-10	SB-11	SB-12
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-7	JB9125-8	JB9125-9
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary
Benzo(a)anthracene	(ug/kg)	1000	1000	30 U	30 U	50.3
Benzo(a)pyrene	(ug/kg)	1000	1000	30 U	30 U	64.1
Benzo(b)fluoranthene	(ug/kg)	1000	1000	30 U	30 U	76.2
Benzo(ghi)perylene	(ug/kg)	100000	100000	30 U	30 U	41.3
Benzo(k)fluoranthene	(ug/kg)	800	1000	30 U	30 U	32.3
Biphenyl	(ug/kg)			61 U	59 U	61 U
Bis(2-chloroethoxy)methane	(ug/kg)			61 U	59 U	61 U
Bis(2-chloroethyl)ether	(ug/kg)			61 U	59 U	61 U
Bis(2-chloroisopropyl)ether	(ug/kg)			61 U	59 U	61 U
Bis(2-ethylhexyl)phthalate (BEHP)	(ug/kg)		50000	61 U	59 U	61 U
Butyl benzyl phthalate	(ug/kg)		100000	61 U	59 U	61 U
Caprolactam	(ug/kg)			61 U	59 U	61 U
Carbazole	(ug/kg)			61 U	59 U	61 U
Chrysene	(ug/kg)	1000	1000	30 U	30 U	50.5
Dibenzo(a,h)anthracene	(ug/kg)	330	330	30 U	30 U	14.6 J
Dibenzofuran	(ug/kg)	7000	14000	61 U	59 U	61 U
Diethyl phthalate	(ug/kg)		100000	61 U	59 U	61 U
Dimethyl phthalate	(ug/kg)		100000	61 U	59 U	61 U
Di-n-butyl phthalate	(ug/kg)		100000	61 U	59 U	61 U
Di-n-octyl phthalate	(ug/kg)		100000	61 U	59 U	61 U
Fluoranthene	(ug/kg)	100000	100000	30 U	30 U	57.4
Fluorene	(ug/kg)	30000	100000	30 U	30 U	31 U
Hexachlorobenzene	(ug/kg)	330	410	61 U	59 U	61 U
Hexachlorobutadiene	(ug/kg)			30 U	30 U	31 U
Hexachlorocyclopentadiene	(ug/kg)			300 U	300 U	310 U
Hexachloroethane	(ug/kg)			150 U	150 U	150 U
Indeno(1,2,3-cd)pyrene	(ug/kg)	500	500	30 U	30 U	38.3
Isophorone	(ug/kg)		100000	61 U	59 U	61 U
m+p-Cresol	(ug/kg)			61 U	59 U	61 U

See the Endnotes following the last page of this Table.

Table 3
 Soil Analytical Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE			SB-10	SB-11	SB-12
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-7	JB9125-8	JB9125-9
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary
m-Nitroaniline	(ug/kg)			150 U	150 U	150 U
Naphthalene	(ug/kg)	12000	100000	30 U	30 U	31 U
Nitrobenzene	(ug/kg)		3700	61 U	59 U	61 U
N-Nitrosodiphenylamine	(ug/kg)			150 U	150 U	150 U
N-Nitrosodipropylamine	(ug/kg)			61 U	59 U	61 U
o-Cresol	(ug/kg)	330	100000	61 U	59 U	61 U
o-Nitroaniline	(ug/kg)			150 U	150 U	150 U
o-Nitrophenol	(ug/kg)			150 U	150 U	150 U
p-Chloroaniline	(ug/kg)		100000	150 U	150 U	150 U
p-Chloro-m-cresol	(ug/kg)			150 U	150 U	150 U
p-Cresol	(ug/kg)	330	34000	NA	NA	NA
Pentachlorophenol	(ug/kg)	800	2400	300 U	300 U	310 U
Phenanthrene	(ug/kg)	100000	100000	30 U	30 U	28.4 J
Phenol	(ug/kg)	330	100000	61 U	59 U	61 U
p-Nitroaniline	(ug/kg)			150 U	150 U	150 U
p-Nitrophenol	(ug/kg)			300 U	300 U	310 U
Pyrene	(ug/kg)	100000	100000	30 U	30 U	61.1

See the Endnotes following the last page of this Table.

Table 3
Soil Analytical Results
Semivolatile Organic Compounds (SVOCs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

Notes:

- $\mu\text{g}/\text{kg}$ = micrograms per kilogram (parts per billion; ppb).
- All depth measurements are in feet (ft) below ground surface.
- 6NYCRR Part 375 Unrestricted SCO = New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objective (SCO) as presented in Title 6 of the Official Compilation of New York Codes, Rules and Regulations (6 NYCRR) Subpart 375-6.8(b).
- 6NYCRR Part 375 AND CP-51 RESIDENTIAL = New York State Department of Environmental Conservation (NYSDEC) Restricted Soil Cleanup Objective (SCO) Residential as presented in Title 6 of the Official Compilation of New York Codes, Rules and Regulations (6 NYCRR) Subpart 375-6.8(b). Includes Final Commissioner Policy CP-51 / Soil Cleanup Guidance, October 21, 2010.
- Bracketed and highlighted values indicate a positive concentration that exceeds the lower of the two SCO.
- NA – Compound not analyzed for.

Qualifiers

no qualifier	The compound was positively identified at the associated numerical value which is the concentration of the compound in the sample.
U	Non-Detect. The compound was analyzed for, but not detected. The associated numerical value is the reporting limit. The value is usable as a non-detect at the reporting limit.
J	Estimated value. The compound was detected at a concentration below the reporting limit but greater than the method detection limit (MDL). The value is usable as an estimated result.

Table 4
 Soil Analytical Results
 Pesticides/Polychlorinated Biphenyls (Pest/PCBs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	6NYCRR PART 375		SB-01	SB-01	SB-02	SB-02
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_1	0806007_13	0806007_4	0806007_11
	DATE	Unrestricted	AND CP-51	06/09/2008	06/10/2008	06/09/2008	06/10/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
Starting Depth	(feet)			0.00	38.00	0.00	39.00
Ending Depth	(feet)			2.00	40.00	2.00	41.00
4,4'-DDD	(ug/kg)	3.3	2600	NA	NA	NA	NA
4,4'-DDE	(ug/kg)	3.3	1800	NA	NA	NA	NA
4,4'-DDT	(ug/kg)	3.3	1700	NA	NA	NA	NA
Aldrin	(ug/kg)	5	19	NA	NA	NA	NA
alpha-BHC	(ug/kg)	20	97	NA	NA	NA	NA
alpha-Chlordane	(ug/kg)	94	910	NA	NA	NA	NA
beta-BHC	(ug/kg)	36	72	NA	NA	NA	NA
delta-BHC	(ug/kg)	40	100000	NA	NA	NA	NA
Dieldrin	(ug/kg)	5	39	NA	NA	NA	NA
Endosulfan I	(ug/kg)	2400	4800	NA	NA	NA	NA
Endosulfan II	(ug/kg)	2400	4800	NA	NA	NA	NA
Endosulfan sulfate	(ug/kg)	2400	4800	NA	NA	NA	NA
Endrin	(ug/kg)	14	2200	NA	NA	NA	NA
Endrin aldehyde	(ug/kg)			NA	NA	NA	NA
Endrin ketone	(ug/kg)			NA	NA	NA	NA
gamma-BHC (Lindane)	(ug/kg)	100	280	NA	NA	NA	NA
gamma-Chlordane	(ug/kg)		540	NA	NA	NA	NA
Heptachlor	(ug/kg)	42	420	NA	NA	NA	NA
Heptachlor epoxide	(ug/kg)		80	NA	NA	NA	NA
Methoxychlor	(ug/kg)		100000	NA	NA	NA	NA
Toxaphene	(ug/kg)			NA	NA	NA	NA
Aroclor 1016	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
Aroclor 1221	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
Aroclor 1232	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
Aroclor 1242	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
Aroclor 1248	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U
Aroclor 1254	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U

See the Endnotes following the last page of this Table.

Table 4
 Soil Analytical Results
 Pesticides/Polychlorinated Biphenyls (Pest/PCBs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-01		SB-01		SB-02		SB-02	
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_1	0806007_13	0806007_4	0806007_11	0806007_4	0806007_11	
	DATE	Unrestricted	AND CP-51	06/09/2008	06/10/2008	06/09/2008	06/10/2008	06/09/2008	06/10/2008	
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary	Primary	Primary	
Aroclor 1260	(ug/kg)			193.32 U	172.64 U	175.96 U	172.64 U			
Aroclor-1262	(ug/kg)			NA	NA	NA	NA			
Aroclor-1268	(ug/kg)			NA	NA	NA	NA			
Total PCBs	(ug/kg)	100	1000	0	0	0	0			

See the Endnotes following the last page of this Table.

Table 4
 Soil Analytical Results
 Pesticides/Polychlorinated Biphenyls (Pest/PCBs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-03		SB-03		SB-04		SB-04	
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_5	0806007_9	0806007_2	0806007_12			
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/10/2008			
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary			
Starting Depth	(feet)			0.00	38.00	0.00	38.00			
Ending Depth	(feet)			2.00	40.00	2.00	40.00			
4,4'-DDD	(ug/kg)	3.3	2600	NA	NA	NA	NA			
4,4'-DDE	(ug/kg)	3.3	1800	NA	NA	NA	NA			
4,4'-DDT	(ug/kg)	3.3	1700	NA	NA	NA	NA			
Aldrin	(ug/kg)	5	19	NA	NA	NA	NA			
alpha-BHC	(ug/kg)	20	97	NA	NA	NA	NA			
alpha-Chlordane	(ug/kg)	94	910	NA	NA	NA	NA			
beta-BHC	(ug/kg)	36	72	NA	NA	NA	NA			
delta-BHC	(ug/kg)	40	100000	NA	NA	NA	NA			
Dieldrin	(ug/kg)	5	39	NA	NA	NA	NA			
Endosulfan I	(ug/kg)	2400	4800	NA	NA	NA	NA			
Endosulfan II	(ug/kg)	2400	4800	NA	NA	NA	NA			
Endosulfan sulfate	(ug/kg)	2400	4800	NA	NA	NA	NA			
Endrin	(ug/kg)	14	2200	NA	NA	NA	NA			
Endrin aldehyde	(ug/kg)			NA	NA	NA	NA			
Endrin ketone	(ug/kg)			NA	NA	NA	NA			
gamma-BHC (Lindane)	(ug/kg)	100	280	NA	NA	NA	NA			
gamma-Chlordane	(ug/kg)		540	NA	NA	NA	NA			
Heptachlor	(ug/kg)	42	420	NA	NA	NA	NA			
Heptachlor epoxide	(ug/kg)		80	NA	NA	NA	NA			
Methoxychlor	(ug/kg)		100000	NA	NA	NA	NA			
Toxaphene	(ug/kg)			NA	NA	NA	NA			
Aroclor 1016	(ug/kg)			190.9 U	172.64 U	223.88 U	172.64 U			
Aroclor 1221	(ug/kg)			190.9 U	172.64 U	223.88 U	172.64 U			
Aroclor 1232	(ug/kg)			190.9 U	172.64 U	223.88 U	172.64 U			
Aroclor 1242	(ug/kg)			190.9 U	172.64 U	223.88 U	172.64 U			
Aroclor 1248	(ug/kg)			190.9 U	172.64 U	223.88 U	172.64 U			
Aroclor 1254	(ug/kg)			190.9 U	172.64 U	223.88 U	172.64 U			

See the Endnotes following the last page of this Table.

Table 4
 Soil Analytical Results
 Pesticides/Polychlorinated Biphenyls (Pest/PCBs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-03		SB-03		SB-04		SB-04	
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_5	0806007_9	0806007_2	0806007_2	0806007_12	0806007_12	
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/09/2008	06/10/2008	06/10/2008	
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary	Primary	Primary	
Aroclor 1260	(ug/kg)			190.9 U	172.64 U	223.88 U		172.64 U		
Aroclor-1262	(ug/kg)			NA	NA	NA		NA		
Aroclor-1268	(ug/kg)			NA	NA	NA		NA		
Total PCBs	(ug/kg)	100	1000	0	0	0		0		

See the Endnotes following the last page of this Table.

Table 4
 Soil Analytical Results
 Pesticides/Polychlorinated Biphenyls (Pest/PCBs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE			SB-05	SB-05	SB-06	SB-06
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_3	0806007_10	0806007_6	0806007_7
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/09/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
Starting Depth	(feet)			0.00	38.00	0.00	38.00
Ending Depth	(feet)			2.00	40.00	2.00	40.00
4,4'-DDD	(ug/kg)	3.3	2600	NA	NA	NA	NA
4,4'-DDE	(ug/kg)	3.3	1800	NA	NA	NA	NA
4,4'-DDT	(ug/kg)	3.3	1700	NA	NA	NA	NA
Aldrin	(ug/kg)	5	19	NA	NA	NA	NA
alpha-BHC	(ug/kg)	20	97	NA	NA	NA	NA
alpha-Chlordane	(ug/kg)	94	910	NA	NA	NA	NA
beta-BHC	(ug/kg)	36	72	NA	NA	NA	NA
delta-BHC	(ug/kg)	40	100000	NA	NA	NA	NA
Dieldrin	(ug/kg)	5	39	NA	NA	NA	NA
Endosulfan I	(ug/kg)	2400	4800	NA	NA	NA	NA
Endosulfan II	(ug/kg)	2400	4800	NA	NA	NA	NA
Endosulfan sulfate	(ug/kg)	2400	4800	NA	NA	NA	NA
Endrin	(ug/kg)	14	2200	NA	NA	NA	NA
Endrin aldehyde	(ug/kg)			NA	NA	NA	NA
Endrin ketone	(ug/kg)			NA	NA	NA	NA
gamma-BHC (Lindane)	(ug/kg)	100	280	NA	NA	NA	NA
gamma-Chlordane	(ug/kg)		540	NA	NA	NA	NA
Heptachlor	(ug/kg)	42	420	NA	NA	NA	NA
Heptachlor epoxide	(ug/kg)		80	NA	NA	NA	NA
Methoxychlor	(ug/kg)		100000	NA	NA	NA	NA
Toxaphene	(ug/kg)			NA	NA	NA	NA
Aroclor 1016	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
Aroclor 1221	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
Aroclor 1232	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
Aroclor 1242	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
Aroclor 1248	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U
Aroclor 1254	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U

See the Endnotes following the last page of this Table.

Table 4
 Soil Analytical Results
 Pesticides/Polychlorinated Biphenyls (Pest/PCBs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		SB-05		SB-05		SB-06	
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_3	0806007_10	0806007_6	0806007_7	
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/09/2008	
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary	
Aroclor 1260	(ug/kg)			192.56 U	174.3 U	189.24 U	170.98 U	
Aroclor-1262	(ug/kg)			NA	NA	NA	NA	
Aroclor-1268	(ug/kg)			NA	NA	NA	NA	
Total PCBs	(ug/kg)	100	1000	0	0	0	0	

See the Endnotes following the last page of this Table.

Table 4
 Soil Analytical Results
 Pesticides/Polychlorinated Biphenyls (Pest/PCBs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE			SB-07	SB-08	SB-09	SB-09
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-5	JB9125-6	JB9125-12	JB9125-11
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Duplicate 1
Starting Depth	(feet)			13.00	13.00	13.00	13.00
Ending Depth	(feet)			15.00	16.00	15.00	15.00
4,4'-DDD	(ug/kg)	3.3	2600	0.69 U	0.71 U	0.71 U	0.72 U
4,4'-DDE	(ug/kg)	3.3	1800	0.69 U	0.71 U	0.71 U	0.72 U
4,4'-DDT	(ug/kg)	3.3	1700	0.69 U	0.71 U	0.71 U	0.72 U
Aldrin	(ug/kg)	5	19	0.69 U	0.71 U	0.71 U	0.72 U
alpha-BHC	(ug/kg)	20	97	0.69 U	0.71 U	0.71 U	0.72 U
alpha-Chlordane	(ug/kg)	94	910	0.69 U	0.71 U	0.71 U	0.72 U
beta-BHC	(ug/kg)	36	72	0.69 U	0.71 U	0.71 U	0.72 U
delta-BHC	(ug/kg)	40	100000	0.69 U	0.71 U	0.71 U	0.72 U
Dieldrin	(ug/kg)	5	39	0.69 U	0.71 U	0.71 U	0.72 U
Endosulfan I	(ug/kg)	2400	4800	0.69 U	0.71 U	0.71 U	0.72 U
Endosulfan II	(ug/kg)	2400	4800	0.69 U	0.71 U	0.71 U	0.72 U
Endosulfan sulfate	(ug/kg)	2400	4800	0.69 U	0.71 U	0.71 U	0.72 U
Endrin	(ug/kg)	14	2200	0.69 U	0.71 U	0.71 U	0.72 U
Endrin aldehyde	(ug/kg)			0.69 U	0.71 U	0.71 U	0.72 U
Endrin ketone	(ug/kg)			0.69 U	0.71 U	0.71 U	0.72 U
gamma-BHC (Lindane)	(ug/kg)	100	280	0.69 U	0.71 U	0.71 U	0.72 U
gamma-Chlordane	(ug/kg)		540	0.69 U	0.71 U	0.71 U	0.72 U
Heptachlor	(ug/kg)	42	420	0.69 U	0.71 U	0.71 U	0.72 U
Heptachlor epoxide	(ug/kg)		80	0.69 U	0.71 U	0.71 U	0.72 U
Methoxychlor	(ug/kg)		100000	1.4 U	1.4 U	1.4 U	1.4 U
Toxaphene	(ug/kg)			17 U	18 U	18 U	18 U
Aroclor 1016	(ug/kg)			34 U	36 U	35 U	36 U
Aroclor 1221	(ug/kg)			34 U	36 U	35 U	36 U
Aroclor 1232	(ug/kg)			34 U	36 U	35 U	36 U
Aroclor 1242	(ug/kg)			34 U	36 U	35 U	36 U
Aroclor 1248	(ug/kg)			34 U	36 U	35 U	36 U
Aroclor 1254	(ug/kg)			34 U	36 U	35 U	36 U

See the Endnotes following the last page of this Table.

Table 4
 Soil Analytical Results
 Pesticides/Polychlorinated Biphenyls (Pest/PCBs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	6NYCRR PART 375	6NYCRR PART 375	SB-07	SB-08	SB-09	SB-09
	LAB SAMPLE ID	Unrestricted	AND CP-51	JB9125-5	JB9125-6	JB9125-12	JB9125-11
	DATE	SCO	RESIDENTIAL	06/15/2012	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE			Primary	Primary	Primary	Duplicate 1
Aroclor 1260	(ug/kg)			34 U	36 U	35 U	36 U
Aroclor-1262	(ug/kg)			34 U	36 U	35 U	36 U
Aroclor-1268	(ug/kg)			34 U	36 U	35 U	36 U
Total PCBs	(ug/kg)	100	1000	0	0	0	0

See the Endnotes following the last page of this Table.

Table 4
 Soil Analytical Results
 Pesticides/Polychlorinated Biphenyls (Pest/PCBs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE			SB-10	SB-11	SB-12
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-7	JB9125-8	JB9125-9
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary
Starting Depth	(feet)			13.00	13.00	13.00
Ending Depth	(feet)			15.00	15.00	15.00
4,4'-DDD	(ug/kg)	3.3	2600	0.68 U	0.70 U	0.72 U
4,4'-DDE	(ug/kg)	3.3	1800	0.68 U	0.70 U	0.72 U
4,4'-DDT	(ug/kg)	3.3	1700	0.68 U	0.70 U	0.72 U
Aldrin	(ug/kg)	5	19	0.68 U	0.70 U	0.72 U
alpha-BHC	(ug/kg)	20	97	0.68 U	0.70 U	0.72 U
alpha-Chlordane	(ug/kg)	94	910	0.68 U	0.70 U	1.8
beta-BHC	(ug/kg)	36	72	0.68 U	0.70 U	0.72 U
delta-BHC	(ug/kg)	40	100000	0.68 U	0.70 U	0.72 U
Dieldrin	(ug/kg)	5	39	0.68 U	0.70 U	0.81
Endosulfan I	(ug/kg)	2400	4800	0.68 U	0.70 U	0.72 U
Endosulfan II	(ug/kg)	2400	4800	0.68 U	0.70 U	0.72 U
Endosulfan sulfate	(ug/kg)	2400	4800	0.68 U	0.70 U	0.72 U
Endrin	(ug/kg)	14	2200	0.68 U	0.70 U	0.72 U
Endrin aldehyde	(ug/kg)			0.68 U	0.70 U	0.72 U
Endrin ketone	(ug/kg)			0.68 U	0.70 U	0.72 U
gamma-BHC (Lindane)	(ug/kg)	100	280	0.68 U	0.70 U	0.72 U
gamma-Chlordane	(ug/kg)		540	0.68 U	0.70 U	1.9
Heptachlor	(ug/kg)	42	420	0.68 U	0.70 U	0.72 U
Heptachlor epoxide	(ug/kg)		80	0.68 U	0.70 U	0.72 U
Methoxychlor	(ug/kg)		100000	1.4 U	1.4 U	1.4 U
Toxaphene	(ug/kg)			17 U	17 U	18 U
Aroclor 1016	(ug/kg)			34 U	35 U	36 U
Aroclor 1221	(ug/kg)			34 U	35 U	36 U
Aroclor 1232	(ug/kg)			34 U	35 U	36 U
Aroclor 1242	(ug/kg)			34 U	35 U	36 U
Aroclor 1248	(ug/kg)			34 U	35 U	36 U
Aroclor 1254	(ug/kg)			34 U	35 U	36 U

See the Endnotes following the last page of this Table.

Table 4
 Soil Analytical Results
 Pesticides/Polychlorinated Biphenyls (Pest/PCBs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE LAB SAMPLE ID	6NYCRR PART 375 Unrestricted	6NYCRR PART 375 AND CP-51	SB-10 JB9125-7 06/15/2012 Primary	SB-11 JB9125-8 06/15/2012 Primary	SB-12 JB9125-9 06/15/2012 Primary
	DATE	SCO	RESIDENTIAL			
	RESULT TYPE					
Aroclor 1260	(ug/kg)			34 U	35 U	36 U
Aroclor-1262	(ug/kg)			34 U	35 U	36 U
Aroclor-1268	(ug/kg)			34 U	35 U	36 U
Total PCBs	(ug/kg)	100	1000	0	0	0

See the Endnotes following the last page of this Table.

Table 4
Soil Analytical Results
Pesticides/Polychlorinated Biphenyls (Pest/PCBs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

Notes:

- $\mu\text{g}/\text{kg}$ = micrograms per kilogram (parts per billion; ppb).
- All depth measurements are in feet (ft) below ground surface.
- 6NYCRR Part 375 Unrestricted SCO = New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objective (SCO) as presented in Title 6 of the Official Compilation of New York Codes, Rules and Regulations (6 NYCRR) Subpart 375-6.8(b).
- 6NYCRR Part 375 AND CP-51 RESIDENTIAL = New York State Department of Environmental Conservation (NYSDEC) Restricted Soil Cleanup Objective (SCO) Residential as presented in Title 6 of the Official Compilation of New York Codes, Rules and Regulations (6 NYCRR) Subpart 375-6.8(b). Includes Final Commissioner Policy CP-51 / Soil Cleanup Guidance, October 21, 2010.
- Bracketed and highlighted values indicate a positive concentration that exceeds the lower of the two SCO.
- NA – Compound not analyzed for.

Qualifiers

- | | |
|--------------|---|
| no qualifier | The compound was positively identified at the associated numerical value which is the concentration of the compound in the sample. |
| U | Non-Detect. The compound was analyzed for, but not detected. The associated numerical value is the reporting limit. The value is usable as a non-detect at the reporting limit. |

Table 5
Soil Analytical Results
Metals
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE			SB-01	SB-01	SB-02	SB-02
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_1	0806007_13	0806007_4	0806007_11
	DATE	Unrestricted	AND CP-51	06/09/2008	06/10/2008	06/09/2008	06/10/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
Starting Depth	(feet)			0.00	38.00	0.00	39.00
Ending Depth	(feet)			2.00	40.00	2.00	41.00
Aluminum	(mg/kg)			4900	2100	3700	1900
Antimony	(mg/kg)			1.1 U	1.0 U	1.1 U	1.0 U
Arsenic	(mg/kg)	13	16	4.9	1.0 U	3.4	1.0 U
Barium	(mg/kg)	350	350	110	15	130	16
Beryllium	(mg/kg)	7.2	14	0.39	0.13	0.23	0.14
Cadmium	(mg/kg)	2.5	2.5	0.66	0.5 U	0.57	1.0 U
Calcium	(mg/kg)			20000	470	18000	500
Chromium	(mg/kg)	30	36	11	6.1	8.9	5.2
Cobalt	(mg/kg)		30	4.7	2.6	3.2	2.8
Copper	(mg/kg)	50	270	20	4.5	26	5.0
Iron	(mg/kg)		2000	[13000]	[6000]	[8200]	[6300]
Lead	(mg/kg)	63	400	[460]	0.98	[360]	1.7
Magnesium	(mg/kg)			8000	980	9100	770
Manganese	(mg/kg)	1600	2000	230	10	190	200
Mercury	(mg/kg)	0.18	0.81	[0.84]	0.0052 U	0.096	0.0052 U
Nickel	(mg/kg)	30	140	10	10	8.7	10
Potassium	(mg/kg)			740	550	620	420
Selenium	(mg/kg)	3.9	36	1.1 U	1.0 U	1.1 U	1 U
Silver	(mg/kg)	2	36	1.8	0.52 U	0.79	0.52 U
Sodium	(mg/kg)			370	100 U	190	100 U
Thallium	(mg/kg)			1.1 U	1.0 U	1.1 U	1.0 U
Vanadium	(mg/kg)		100	14	6.8	18	5.6
Zinc	(mg/kg)	109	2200	[180]	10	[130]	10

See the Endnotes following the last page of this Table.

Table 5
Soil Analytical Results
Metals
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE			SB-03	SB-03	SB-04	SB-04
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_5	0806007_9	0806007_2	0806007_12
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/10/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
Starting Depth	(feet)			0.00	38.00	0.00	38.00
Ending Depth	(feet)			2.00	40.00	2.00	40.00
Aluminum	(mg/kg)			12000	2000	12000	2700
Antimony	(mg/kg)			1.2	1.0 U	1.4	1.0 U
Arsenic	(mg/kg)	13	16	4.6	1.0 U	3.8	1.0 U
Barium	(mg/kg)	350	350	110	18	98	18
Beryllium	(mg/kg)	7.2	14	0.52	0.13	0.57	0.17
Cadmium	(mg/kg)	2.5	2.5	0.71	0.52 U	0.60	0.52 U
Calcium	(mg/kg)			2900	530	4500	920
Chromium	(mg/kg)	30	36	15	5.0	15	8.2
Cobalt	(mg/kg)		30	7.8	2.3	5.2	2.7
Copper	(mg/kg)	50	270	38	3.8	14	5.7
Iron	(mg/kg)		2000	[12000]	[5100]	[11000]	[13000]
Lead	(mg/kg)	63	400	[380]	1.0 U	[130]	1.5
Magnesium	(mg/kg)			2100	750	3200	880
Manganese	(mg/kg)	1600	2000	520	97	24	260
Mercury	(mg/kg)	0.18	0.81	[0.26]	0.0052 U	0.17	0.0052 U
Nickel	(mg/kg)	30	140	13	8.1	11	14
Potassium	(mg/kg)			660	550	740	500
Selenium	(mg/kg)	3.9	36	1.2 U	1.0 U	1.2 U	1.0 U
Silver	(mg/kg)	2	36	0.59 U	0.52 U	0.86	0.52 U
Sodium	(mg/kg)			160	100 U	380	100 U
Thallium	(mg/kg)			1.2 U	1.0 U	1.2 U	1.0 U
Vanadium	(mg/kg)		100	20	5.4	20	9.7
Zinc	(mg/kg)	109	2200	82	9.1	61	11

See the Endnotes following the last page of this Table.

Table 5
Soil Analytical Results
Metals
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE			SB-05	SB-05	SB-06	SB-06
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	0806007_3	0806007_10	0806007_6	0806007_7
	DATE	Unrestricted	AND CP-51	06/09/2008	06/09/2008	06/09/2008	06/09/2008
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Primary
Starting Depth	(feet)			0.00	38.00	0.00	38.00
Ending Depth	(feet)			2.00	40.00	2.00	40.00
Aluminum	(mg/kg)			9900	4700	10000	2200
Antimony	(mg/kg)			1.2 U	1.2	1.2 U	1.0 U
Arsenic	(mg/kg)	13	16	5.2	1.1 U	4.2	1.0 U
Barium	(mg/kg)	350	350	130	18	120	27
Beryllium	(mg/kg)	7.2	14	0.63	0.27	0.53	0.12
Cadmium	(mg/kg)	2.5	2.5	0.79	0.79	0.62	0.52 U
Calcium	(mg/kg)			7100	540	3600	650
Chromium	(mg/kg)	30	36	15	17	15	6.3
Cobalt	(mg/kg)		30	5.1	2.8	4.7	4.5
Copper	(mg/kg)	50	270	[79]	6.2	49	4.8
Iron	(mg/kg)		2000	[11000]	[20000]	[11000]	[6100]
Lead	(mg/kg)	63	400	[380]	1.7	[170]	2.1
Magnesium	(mg/kg)			2900	760	2100	810
Manganese	(mg/kg)	1600	2000	320	190	310	210
Mercury	(mg/kg)	0.18	0.81	[0.39]	0.0052 U	[0.30]	0.0052 U
Nickel	(mg/kg)	30	140	13	19	11	11
Potassium	(mg/kg)			690	570	620	670
Selenium	(mg/kg)	3.9	36	1.2 U	1.1 U	1.2 U	1.0 U
Silver	(mg/kg)	2	36	0.6 U	0.53 U	0.58 U	0.52 U
Sodium	(mg/kg)			310	110 U	160	100 U
Thallium	(mg/kg)			1.2 U	1.1 U	1.2 U	1.0 U
Vanadium	(mg/kg)		100	27	19	22	6.2
Zinc	(mg/kg)	109	2200	[230]	15	69	10

See the Endnotes following the last page of this Table.

Table 5
Soil Analytical Results
Metals
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE			SB-07	SB-08	SB-09	SB-09
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-5	JB9125-6	JB9125-12	JB9125-11
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary	Duplicate 1
Starting Depth	(feet)			13.00	13.00	13.00	13.00
Ending Depth	(feet)			15.00	16.00	15.00	15.00
Aluminum	(mg/kg)			3390	3900	2950	2700
Antimony	(mg/kg)			2.0 U	2.1 U	2.1 U	2.0 U
Arsenic	(mg/kg)	13	16	2.3	2.1 U	2.1 U	2.0 U
Barium	(mg/kg)	350	350	28.7	21 U	23.8	20 U
Beryllium	(mg/kg)	7.2	14	0.38	0.27	0.23	0.20 U
Cadmium	(mg/kg)	2.5	2.5	0.51 U	0.53 U	0.53 U	0.51 U
Calcium	(mg/kg)			664	1040	912	510 U
Chromium	(mg/kg)	30	36	12.8	18.4	11.1	8.8
Cobalt	(mg/kg)		30	5.1 U	5.3 U	5.3 U	5.1 U
Copper	(mg/kg)	50	270	7.7	9.3	16.2	6.6
Iron	(mg/kg)		2000	[31700]	[12200]	[19100]	[12400]
Lead	(mg/kg)	63	400	2.0 U	6.6	2.1 U	2.0 U
Magnesium	(mg/kg)			1060	1360	993	884
Manganese	(mg/kg)	1600	2000	422	195	307	393
Mercury	(mg/kg)	0.18	0.81	0.033 U	0.036 U	0.11	0.036 U
Nickel	(mg/kg)	30	140	7.1	9.4	6.5	6.4
Potassium	(mg/kg)			1000 U	1100 U	1100 U	1000 U
Selenium	(mg/kg)	3.9	36	2.0 U	2.1 U	2.1 U	2.0 U
Silver	(mg/kg)	2	36	0.51 U	0.53 U	0.53 U	0.51 U
Sodium	(mg/kg)			1000 U	1100 U	1100 U	1000 U
Thallium	(mg/kg)			1.0 U	1.1 U	1.1 U	1.0 U
Vanadium	(mg/kg)		100	22.4	14.4	24.6	13.8
Zinc	(mg/kg)	109	2200	16.8	15.9	14.5	12.5

See the Endnotes following the last page of this Table.

Table 5
Soil Analytical Results
Metals
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE			SB-10	SB-11	SB-12
	LAB SAMPLE ID	6NYCRR PART 375	6NYCRR PART 375	JB9125-7	JB9125-8	JB9125-9
	DATE	Unrestricted	AND CP-51	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	SCO	RESIDENTIAL	Primary	Primary	Primary
Starting Depth	(feet)			13.00	13.00	13.00
Ending Depth	(feet)			15.00	15.00	15.00
Aluminum	(mg/kg)			2880	3080	3900
Antimony	(mg/kg)			2.2 U	2.1 U	2.1 U
Arsenic	(mg/kg)	13	16	2.2 U	2.1 U	2.1 U
Barium	(mg/kg)	350	350	22 U	21 U	35.2
Beryllium	(mg/kg)	7.2	14	0.22 U	0.21	0.28
Cadmium	(mg/kg)	2.5	2.5	0.55 U	0.53 U	0.52 U
Calcium	(mg/kg)			550	580	4510
Chromium	(mg/kg)	30	36	8.1	8.1	12.3
Cobalt	(mg/kg)		30	5.5 U	5.3 U	5.2 U
Copper	(mg/kg)	50	270	7.4	9.3	12.7
Iron	(mg/kg)		2000	[14000]	[12500]	[16600]
Lead	(mg/kg)	63	400	2.2 U	2.1 U	21.4
Magnesium	(mg/kg)			893	1100	1560
Manganese	(mg/kg)	1600	2000	260	174	267
Mercury	(mg/kg)	0.18	0.81	0.034 U	0.032 U	0.044
Nickel	(mg/kg)	30	140	6.0	5.9	13.7
Potassium	(mg/kg)			1100 U	1100 U	1000 U
Selenium	(mg/kg)	3.9	36	2.2 U	2.1 U	2.1 U
Silver	(mg/kg)	2	36	0.55 U	0.53 U	0.71
Sodium	(mg/kg)			1100 U	1100 U	1000 U
Thallium	(mg/kg)			1.1 U	1.1 U	1.0 U
Vanadium	(mg/kg)		100	14.2	12.7	23.9
Zinc	(mg/kg)	109	2200	12.1	16.2	35.8

See the Endnotes following the last page of this Table.

Table 5
Soil Analytical Results
Metals
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

Notes:

- mg/kg = milligrams per kilogram (parts per million; ppm).
- All depth measurements are in feet (ft) below ground surface.
- 6NYCRR Part 375 Unrestricted SCO = New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objective (SCO) as presented in Title 6 of the Official Compilation of New York Codes, Rules and Regulations (6 NYCRR) Subpart 375-6.8(b).
- 6NYCRR Part 375AND CP-51 RESIDENTIAL = New York State Department of Environmental Conservation (NYSDEC) Restricted Soil Cleanup Objective (SCO) Residential as presented in Title 6 of the Official Compilation of New York Codes, Rules and Regulations (6 NYCRR) Subpart 375-6.8(b). Includes Final Commissioner Policy CP-51 / Soil Cleanup Guidance, October 21, 2010.
- Bracketed and highlighted values indicate a positive concentration that exceeds the lower of the two SCO.

Qualifiers

no qualifier	The compound was positively identified at the associated numerical value which is the concentration of the compound in the sample.
U	Non-Detect. The compound was analyzed for, but not detected. The associated numerical value is the reporting limit. The value is usable as a non-detect at the reporting limit.

Table 6
Groundwater Sampling Results
Volatile Organic Compounds (VOCs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Water

CONSTITUENT	SITE		GW-01	GW-06	GW-07	GW-07	GW-08
	LAB SAMPLE ID		0806007_14	0806007_8	JB9125-3	JB9125-10	JB9125-4
	DATE	NYSDEC	06/10/2008	06/09/2008	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	TOGS	Primary	Primary	Primary	Duplicate 1	Primary
1,1,1,2-Tetrachloroethane	(ug/l)	5	1 U	1 U	NA	NA	NA
1,1,1-Trichloroethane	(ug/l)	5	1 U	1 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	(ug/l)	5	1 U	1 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	(ug/l)	1	1 U	1 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	(ug/l)	5	1 U	1 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	(ug/l)	5	1 U	1 U	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	(ug/l)	5	1 U	1 U	NA	NA	NA
1,2,3-Trichlorobenzene	(ug/l)	5	1 U	1 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	(ug/l)	5	1 U	1 U	NA	NA	NA
1,2,4-Trichlorobenzene	(ug/l)	5	1 U	1 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	(ug/l)	5	1 U	1 U	NA	NA	NA
1,2-Dibromo-3-chloropropane	(ug/l)	0.04	NA	NA	10 U	10 U	10 U
1,2-Dibromoethane	(ug/l)	0.0006	1 U	1 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	(ug/l)	3	1 U	1 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	(ug/l)	0.6	1 U	1 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	(ug/l)	1	1 U	1 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	(ug/l)	5	1 U	1 U	NA	NA	NA
1,3-Dichlorobenzene	(ug/l)	3	1 U	1 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropane	(ug/l)	5	1 U	1 U	NA	NA	NA
1,4-Dichlorobenzene	(ug/l)	3	1 U	1 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	(ug/l)		NA	NA	130 U	130 U	130 U
2-Butanone	(ug/l)	50	1 U	1 U	10 U	10 U	10 U
2-Chlorotoluene	(ug/l)	5	1 U	1 U	NA	NA	NA
2-Hexanone	(ug/l)	50	NA	NA	5.0 U	5.0 U	5.0 U
2-Nitropropane	(ug/l)		1 U	1 U	NA	NA	NA
4-Chlorotoluene	(ug/l)	5	1 U	1 U	NA	NA	NA
4-Methyl-2-Pentanone	(ug/l)		1 U	1 U	5.0 U	5.0 U	5.0 U
Acetone	(ug/l)	50	5 U	5 U	10 U	10 U	10 U
Acrylonitrile	(ug/l)	5	1 U	1 U	NA	NA	NA

See the Endnotes following the last page of this Table.

Table 6
 Groundwater Sampling Results
 Volatile Organic Compounds (VOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Water

CONSTITUENT	SITE		GW-01	GW-06	GW-07	GW-07	GW-08
	LAB SAMPLE ID		0806007_14	0806007_8	JB9125-3	JB9125-10	JB9125-4
	DATE	NYSDEC	06/10/2008	06/09/2008	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	TOGS	Primary	Primary	Primary	Duplicate 1	Primary
Allyl chloride	(ug/l)		1 U	1 U	NA	NA	NA
Benzene	(ug/l)	1	1 U	1 U	1.0 U	1.0 U	1.0 U
Bromobenzene	(ug/l)	5	1 U	1 U	NA	NA	NA
Bromochloromethane	(ug/l)	5	1 U	1 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	(ug/l)	50	1 U	1 U	1.0 U	1.0 U	1.0 U
Bromoform	(ug/l)	50	1 U	1 U	4.0 U	4.0 U	4.0 U
Bromomethane	(ug/l)	5	1 U	1 U	2.0 U	2.0 U	2.0 U
Carbon Disulfide	(ug/l)	60	1 U	1 U	2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	(ug/l)	5	1 U	1 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	(ug/l)	5	1 U	1 U	1.0 U	1.0 U	1.0 U
Chlorodifluoromethane	(ug/l)	5	5 U	5 U	NA	NA	NA
Chloroethane	(ug/l)	5	1 U	1 U	1.0 U	1.0 U	1.0 U
Chloroform	(ug/l)	7	1 U	1 U	0.25 J	1.0 U	1.0 U
Chloromethane	(ug/l)	5	1 U	1 U	1.0 U	1.0 U	1.0 U
Chloroprene	(ug/l)		1 U	1 U	NA	NA	NA
cis-1,2-Dichloroethene	(ug/l)	5	1 U	1 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	(ug/l)	0.4	1 U	1 U	1.0 U	1.0 U	1.0 U
Cyclohexane	(ug/l)		NA	NA	5.0 U	5.0 U	5.0 U
Dibromochloromethane	(ug/l)	50	1 U	1 U	1.0 U	1.0 U	1.0 U
Dibromomethane	(ug/l)	5	1 U	1 U	NA	NA	NA
Dichlorodifluoromethane	(ug/l)	5	1 U	1 U	5.0 U	5.0 U	5.0 U
Diethyl ether	(ug/l)		1 U	1 U	NA	NA	NA
Ethanol	(ug/l)		25 U	25 U	NA	NA	NA
Ethylbenzene	(ug/l)	5	1 U	1 U	1.0 U	1.0 U	1.0 U
Freon 113	(ug/l)	5	1 U	1 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	(ug/l)	0.5	1 U	1 U	NA	NA	NA
Isopropyl Ether	(ug/l)		1 U	1 U	NA	NA	NA
Isopropylbenzene	(ug/l)	5	1 U	1 U	2.0 U	2.0 U	2.0 U
m+p-Xylene	(ug/l)	5	1 U	1 U	1.0 U	1.0 U	1.0 U

See the Endnotes following the last page of this Table.

Table 6
Groundwater Sampling Results
Volatile Organic Compounds (VOCs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Water

CONSTITUENT	SITE		GW-01	GW-06	GW-07	GW-07	GW-08
	LAB SAMPLE ID		0806007_14	0806007_8	JB9125-3	JB9125-10	JB9125-4
	DATE	NYSDEC	06/10/2008	06/09/2008	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	TOGS	Primary	Primary	Primary	Duplicate 1	Primary
Methacrylonitrile	(ug/l)		5 U	5 U	NA	NA	NA
Methyl Acetate	(ug/l)		NA	NA	5.0 U	5.0 U	5.0 U
Methyl acrylate	(ug/l)		1 U	1 U	NA	NA	NA
Methyl Cyclohexane	(ug/l)		NA	NA	5.0 U	5.0 U	5.0 U
Methyl Tertiary Butyl Ether	(ug/l)	10	1 U	1 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	(ug/l)	5	1 U	1 U	2.0 U	2.0 U	2.0 U
Naphthalene	(ug/l)	10	1 U	1.1	NA	NA	NA
n-Butylbenzene	(ug/l)	5	1 U	1 U	NA	NA	NA
n-Propylbenzene	(ug/l)	5	1 U	1 U	NA	NA	NA
o-Xylene	(ug/l)	5	1 U	1 U	1.0 U	1.0 U	1.0 U
p-Isopropyltoluene	(ug/l)	5	1 U	1 U	NA	NA	NA
sec-Butylbenzene	(ug/l)	5	1 U	1 U	NA	NA	NA
Styrene	(ug/l)	5	1 U	1 U	5.0 U	5.0 U	5.0 U
tert-amyl alcohol	(ug/l)		1 U	1 U	NA	NA	NA
tert-Amyl methyl ether	(ug/l)		1 U	1 U	NA	NA	NA
tert-Buthyl ethyl ether	(ug/l)		1 U	1 U	NA	NA	NA
tert-Butylbenzene	(ug/l)	5	1 U	1 U	NA	NA	NA
Tertiary Butyl Alcohol	(ug/l)		1 U	1 U	NA	NA	NA
Tetrachloroethene	(ug/l)	5	1.2	3.5	0.48 J	0.34 J	1.0 U
Toluene	(ug/l)	5	1 U	1 U	1.0 U	1.0 U	0.26 J
trans-1,2-Dichloroethene	(ug/l)	5	1 U	1 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	(ug/l)	0.4	NA	NA	1.0 U	1.0 U	1.0 U
Trichloroethene	(ug/l)	5	1 U	1 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	(ug/l)	5	1 U	1 U	5.0 U	5.0 U	5.0 U
Vinyl Acetate	(ug/l)		1 U	1 U	NA	NA	NA
Vinyl chloride	(ug/l)	2	1 U	1 U	1.0 U	1.0 U	1.0 U
Xylene (total)	(ug/l)	5	NA	NA	1.0 U	1.0 U	1.0 U

See the Endnotes following the last page of this Table.

Table 6
Groundwater Analytical Results
Volatile Organic Compounds (VOCs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

Notes:

- $\mu\text{g/l}$ = micrograms per liter (parts per billion; ppb).
- NYSDEC TOGS = Standards listed are the New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 values.
- Bracketed values indicate exceedances of TOGS.
- NA – Compound not analyzed for.

Qualifiers

no qualifier	The compound was positively identified at the associated numerical value which is the concentration of the compound in the sample.
U	Non-Detect. The compound was analyzed for, but not detected. The associated numerical value is the reporting limit. The value is usable as a non-detect at the reporting limit.
J	Estimated value. The compound was detected at a concentration below the reporting limit but greater than the method detection limit (MDL). The value is usable as an estimated result.

Table 7
 Groundwater Sampling Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Water

CONSTITUENT	SITE		GW-01	GW-06	GW-07	GW-07	GW-08
	LAB SAMPLE ID		0806007_14	0806007_8	JB9125-3	JB9125-10	JB9125-4
	DATE	NYSDEC	06/10/2008	06/09/2008	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	TOGS	Primary	Primary	Primary	Duplicate 1	Primary
1,2,4,5-Tetrachlorobenzene	(ug/l)	5	NA	NA	2.0 U	2.0 U	2.2 U
1,2,4-Trichlorobenzene	(ug/l)	5	5 U	5 U	NA	NA	NA
1,2-Dichlorobenzene	(ug/l)	3	5 U	5 U	NA	NA	NA
1,3-Dichlorobenzene	(ug/l)	3	5 U	5 U	NA	NA	NA
1,4-Dichlorobenzene	(ug/l)	3	5 U	5 U	NA	NA	NA
2,2'-oxybis(1-Chloropropane)	(ug/l)		5 U	5 U	NA	NA	NA
2,3,4,6-Tetrachlorophenol	(ug/l)		NA	NA	5.0 U	5.0 U	5.6 U
2,4,5-Trichlorophenol	(ug/l)	1	5 U	5 U	5.0 U	5.0 U	5.6 U
2,4,6-Trichlorophenol	(ug/l)	1	5 U	5 U	5.0 U	5.0 U	5.6 U
2,4-Dichlorophenol	(ug/l)	5	5 U	5 U	5.0 U	5.0 U	5.6 U
2,4-Dimethylphenol	(ug/l)	1	5 U	5 U	5.0 U	5.0 U	5.6 U
2,4-Dinitrophenol	(ug/l)	10	5 U	5 U	20 U	20 U	22 U
2,4-Dinitrotoluene	(ug/l)	5	5 U	5 U	2.0 U	2.0 U	2.2 U
2,6-Dinitrotoluene	(ug/l)	5	5 U	5 U	2.0 U	2.0 U	2.2 U
2-Chloronaphthalene	(ug/l)	10	5 U	5 U	2.0 U	2.0 U	2.2 U
2-Chlorophenol	(ug/l)	1	5 U	5 U	5.0 U	5.0 U	5.6 U
2-Methylnaphthalene	(ug/l)		5 U	5 U	1.0 U	1.0 U	1.1 U
3,3-Dichlorobenzidine	(ug/l)	5	5 U	5 U	5.0 U	5.0 U	5.6 U
4,6-Dinitro-o-cresol	(ug/l)	1	5 U	5 U	20 U	20 U	22 U
4-Bromophenyl phenyl ether	(ug/l)		5 U	5 U	2.0 U	2.0 U	2.2 U
4-Chlorophenyl phenyl ether	(ug/l)		5 U	5 U	2.0 U	2.0 U	2.2 U
Acenaphthene	(ug/l)	20	5 U	5 U	1.0 U	1.0 U	1.1 U
Acenaphthylene	(ug/l)		5 U	5 U	1.0 U	1.0 U	1.1 U
Acetophenone	(ug/l)		NA	NA	0.59 J	2.0 U	0.69 J
Anthracene	(ug/l)	50	5 U	5 U	1.0 U	1.0 U	1.1 U
Atrazine	(ug/l)	7.5	NA	NA	5.0 U	5.0 U	5.6 U
Benzaldehyde	(ug/l)		NA	NA	5.0 U	5.0 U	5.6 U
Benzo(a)anthracene	(ug/l)	0.002	5 U	[59]	1.0 U	1.0 U	1.1 U
Benzo(a)pyrene	(ug/l)	0	5 U	5 U	1.0 U	1.0 U	1.1 U

See the Endnotes following the last page of this Table.

Table 7
 Groundwater Sampling Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Water

CONSTITUENT	SITE		GW-01	GW-06	GW-07	GW-07	GW-08
	LAB SAMPLE ID		0806007_14	0806007_8	JB9125-3	JB9125-10	JB9125-4
	DATE	NYSDEC	06/10/2008	06/09/2008	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	TOGS	Primary	Primary	Primary	Duplicate 1	Primary
Benzo(b)fluoranthene	(ug/l)	0.002	5 U	5 U	1.0 U	1.0 U	1.1 U
Benzo(ghi)perylene	(ug/l)		5 U	5 U	1.0 U	1.0 U	1.1 U
Benzo(k)fluoranthene	(ug/l)	0.002	5 U	5 U	1.0 U	1.0 U	1.1 U
Biphenyl	(ug/l)		NA	NA	1.0 U	1.0 U	1.1 U
Bis(2-chloroethoxy)methane	(ug/l)	5	5 U	5 U	2.0 U	2.0 U	2.2 U
Bis(2-chloroethyl)ether	(ug/l)	1	5 U	5 U	2.0 U	2.0 U	2.2 U
Bis(2-chloroisopropyl)ether	(ug/l)		NA	NA	2.0 U	2.0 U	2.2 U
Bis(2-ethylhexyl)phthalate (BEHP)	(ug/l)	5	5 U	5 U	2.0 U	2.0 U	2.2 U
Butyl benzyl phthalate	(ug/l)	50	5 U	5 U	2.0 U	2.0 U	2.2 U
Caprolactam	(ug/l)		NA	NA	2.0 U	2.0 U	2.2 U
Carbazole	(ug/l)		NA	NA	1.0 U	1.0 U	1.1 U
Chrysene	(ug/l)	0.002	5 U	[46]	1.0 U	1.0 U	1.1 U
Dibenzo(a,h)anthracene	(ug/l)		5 U	5 U	1.0 U	1.0 U	1.1 U
Dibenzofuran	(ug/l)		5 U	5 U	5.0 U	5.0 U	5.6 U
Diethyl phthalate	(ug/l)	50	5 U	5 U	2.0 U	2.0 U	2.2 U
Dimethyl phthalate	(ug/l)	50	5 U	5 U	2.0 U	2.0 U	2.2 U
Di-n-butyl phthalate	(ug/l)	50	50 U	50 U	2.0 U	2.0 U	2.2 U
Di-n-octyl phthalate	(ug/l)	50	5 U	5 U	2.0 U	2.0 U	2.2 U
Fluoranthene	(ug/l)	50	5 U	5 U	1.0 U	1.0 U	1.1 U
Fluorene	(ug/l)	50	5 U	5 U	1.0 U	1.0 U	1.1 U
Hexachlorobenzene	(ug/l)	0.04	5 U	5 U	1.0 U	1.0 U	1.1 U
Hexachlorobutadiene	(ug/l)	0.5	5 U	5 U	1.0 U	1.0 U	1.1 U
Hexachlorocyclopentadiene	(ug/l)	5	5 U	5 U	10 U	10 U	11 U
Hexachloroethane	(ug/l)	5	5 U	5 U	2.0 U	2.0 U	2.2 U
Indeno(1,2,3-cd)pyrene	(ug/l)	0.002	5 U	5 U	1.0 U	1.0 U	1.1 U
Isophorone	(ug/l)	50	5 U	5 U	2.0 U	2.0 U	2.2 U
m+p-Cresol	(ug/l)		NA	NA	2.0 U	2.0 U	2.2 U
m-Nitroaniline	(ug/l)	5	5 U	5 U	5.0 U	5.0 U	5.6 U
Naphthalene	(ug/l)	10	5 U	5 U	1.0 U	1.0 U	1.1 U

See the Endnotes following the last page of this Table.

Table 7
 Groundwater Sampling Results
 Semivolatile Organic Compounds (SVOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Water

CONSTITUENT	SITE		GW-01	GW-06	GW-07	GW-07	GW-08
	LAB SAMPLE ID		0806007_14	0806007_8	JB9125-3	JB9125-10	JB9125-4
	DATE	NYSDEC	06/10/2008	06/09/2008	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	TOGS	Primary	Primary	Primary	Duplicate 1	Primary
Nitrobenzene	(ug/l)	0.4	5 U	5 U	2.0 U	2.0 U	2.2 U
N-Nitrosodiphenylamine	(ug/l)	50	5 U	5 U	5.0 U	5.0 U	5.6 U
N-Nitrosodipropylamine	(ug/l)		5 U	5 U	2.0 U	2.0 U	2.2 U
o-Cresol	(ug/l)	1	5 U	5 U	2.0 U	2.0 U	2.2 U
o-Nitroaniline	(ug/l)	5	5 U	5 U	5.0 U	5.0 U	5.6 U
o-Nitrophenol	(ug/l)	1	5 U	5 U	5.0 U	5.0 U	5.6 U
p-Chloroaniline	(ug/l)	5	5 U	5 U	5.0 U	5.0 U	5.6 U
p-Chloro-m-cresol	(ug/l)	1	5 U	5 U	5.0 U	5.0 U	5.6 U
p-Cresol	(ug/l)	1	3 U	3 U	NA	NA	NA
Pentachlorophenol	(ug/l)	1	5 U	5 U	10 U	10 U	11 U
Phenanthrene	(ug/l)	50	5 U	5 U	1.0 U	1.0 U	1.1 U
Phenol	(ug/l)	1	5 U	5 U	2.0 U	2.0 U	2.2 U
p-Nitroaniline	(ug/l)	5	5 U	5 U	5.0 U	5.0 U	5.6 U
p-Nitrophenol	(ug/l)	1	5 U	5 U	10 U	10 U	11 U
Pyrene	(ug/l)	50	5 U	[56]	1.0 U	1.0 U	1.1 U

See the Endnotes following the last page of this Table.

Table 7
Groundwater Analytical Results
Semivolatile Organic Compounds (SVOCs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

Notes:

- $\mu\text{g/l}$ = micrograms per liter (parts per billion; ppb).
- NYSDEC TOGS = Standards listed are the New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 values.
- Bracketed values indicate exceedances of TOGS.
- NA – Compound not analyzed for.

Qualifiers

no qualifier	The compound was positively identified at the associated numerical value which is the concentration of the compound in the sample.
U	Non-Detect. The compound was analyzed for, but not detected. The associated numerical value is the reporting limit. The value is usable as a non-detect at the reporting limit.
J	Estimated value. The compound was detected at a concentration below the reporting limit but greater than the method detection limit (MDL). The value is usable as an estimated result.

Table 8
Groundwater Sampling Results
Pesticides/Polychlorinated Biphenyls (Pest/PCBs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Water

CONSTITUENT	SITE		GW-01	GW-06	GW-07	GW-07	GW-08
	LAB SAMPLE ID		0806007_14	0806007_8	JB9125-3	JB9125-10	JB9125-4
	DATE	NYSDEC	06/10/2008	06/09/2008	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	TOGS	Primary	Primary	Primary	Duplicate 1	Primary
4,4'-DDD	(ug/l)	0.3	NA	NA	0.010 U	0.011 U	0.010 U
4,4'-DDE	(ug/l)	0.2	NA	NA	0.010 U	0.011 U	0.010 U
4,4'-DDT	(ug/l)	0.2	NA	NA	0.010 U	0.011 U	0.010 U
Aldrin	(ug/l)	0	NA	NA	0.010 U	0.011 U	0.010 U
alpha-BHC	(ug/l)	0.01	NA	NA	0.010 U	0.011 U	0.010 U
alpha-Chlordane	(ug/l)		NA	NA	0.010 U	0.011 U	0.049
beta-BHC	(ug/l)	0.04	NA	NA	0.010 U	0.011 U	0.010 U
delta-BHC	(ug/l)	0.04	NA	NA	0.010 U	0.011 U	0.010 U
Dieldrin	(ug/l)	0.004	NA	NA	0.010 U	0.011 U	0.010 U
Endosulfan I	(ug/l)		NA	NA	0.010 U	0.011 U	0.010 U
Endosulfan II	(ug/l)		NA	NA	0.010 U	0.011 U	0.010 U
Endosulfan sulfate	(ug/l)		NA	NA	0.010 U	0.011 U	0.010 U
Endrin	(ug/l)	0	NA	NA	0.010 U	0.011 U	0.010 U
Endrin aldehyde	(ug/l)	5	NA	NA	0.010 U	0.011 U	0.010 U
Endrin ketone	(ug/l)	5	NA	NA	0.010 U	0.011 U	0.010 U
gamma-BHC (Lindane)	(ug/l)	0.05	NA	NA	0.010 U	0.011 U	0.010 U
gamma-Chlordane	(ug/l)		NA	NA	0.010 U	0.011 U	0.057
Heptachlor	(ug/l)	0.04	NA	NA	0.010 U	0.011 U	0.010 U
Heptachlor epoxide	(ug/l)	0.03	NA	NA	0.010 U	0.011 U	0.010 U
Methoxychlor	(ug/l)	35	NA	NA	0.020 U	0.022 U	0.020 U
Toxaphene	(ug/l)	0.06	NA	NA	0.25 U	0.27 U	0.25 U
Aroclor 1016	(ug/l)		50 U	50 U	0.50 U	0.54 U	0.50 U
Aroclor 1221	(ug/l)		50 U	50 U	0.50 U	0.54 U	0.50 U
Aroclor 1232	(ug/l)		50 U	50 U	0.50 U	0.54 U	0.50 U
Aroclor 1242	(ug/l)		50 U	50 U	0.50 U	0.54 U	0.50 U
Aroclor 1248	(ug/l)		50 U	50 U	0.50 U	0.54 U	0.50 U
Aroclor 1254	(ug/l)		50 U	50 U	0.50 U	0.54 U	0.50 U
Aroclor 1260	(ug/l)		50 U	50 U	0.50 U	0.54 U	0.50 U
Aroclor-1262	(ug/l)		NA	NA	0.50 U	0.54 U	0.50 U

See the Endnotes following the last page of this Table.

Table 8
 Groundwater Sampling Results
 Pesticides/Polychlorinated Biphenyls (Pest/PCBs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Water

CONSTITUENT	SITE		GW-01	GW-06	GW-07	GW-07	GW-08
	LAB SAMPLE ID		0806007_14	0806007_8	JB9125-3	JB9125-10	JB9125-4
	DATE	NYSDEC	06/10/2008	06/09/2008	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	TOGS	Primary	Primary	Primary	Duplicate 1	Primary
Aroclor-1268	(ug/l)		NA	NA	0.50 U	0.54 U	0.50 U
Total PCBs	(ug/l)	0.09	0	0	0	0	0

See the Endnotes following the last page of this Table.

Table 8
Groundwater Analytical Results
Pesticides/Polychlorinated Biphenyls (Pest/PCBs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

Notes:

- $\mu\text{g/l}$ = micrograms per liter (parts per billion; ppb).
- NYSDEC TOGS = Standards listed are the New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 values.
- Bracketed values indicate exceedances of TOGS.
- NA – Compound not analyzed for.

Qualifiers

- | | |
|--------------|---|
| no qualifier | The compound was positively identified at the associated numerical value which is the concentration of the compound in the sample. |
| U | Non-Detect. The compound was analyzed for, but not detected. The associated numerical value is the reporting limit. The value is usable as a non-detect at the reporting limit. |

Table 9
Groundwater Sampling Results
Metals
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Water

CONSTITUENT	SITE		GW-01	GW-06	GW-07	GW-07	GW-08
	LAB SAMPLE ID		0806007_14	0806007_8	JB9125-3	JB9125-10	JB9125-4
	DATE	NYSDEC	06/10/2008	06/09/2008	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	TOGS	Primary	Primary	Primary	Duplicate 1	Primary
Aluminum	(ug/l)		7300	10000	NA	NA	NA
Aluminum (Dissolved)	(ug/l)		NA	NA	200 U	200 U	200 U
Antimony	(ug/l)	3	[11]	[4500]	NA	NA	NA
Antimony (Dissolved)	(ug/l)	3	NA	NA	6.0 U	6.0 U	6.0 U
Arsenic	(ug/l)	25	5 U	1000 U	NA	NA	NA
Arsenic (Dissolved)	(ug/l)	25	NA	NA	3.0 U	3.0 U	3.0 U
Barium	(ug/l)	1000	210	[1900]	NA	NA	NA
Barium (Dissolved)	(ug/l)	1000	NA	NA	200 U	200 U	200 U
Beryllium	(ug/l)	3	110 U	100 U	NA	NA	NA
Beryllium (Dissolved)	(ug/l)	3	NA	NA	1.0 U	1.0 U	1.0 U
Cadmium	(ug/l)	5	5	500 U	NA	NA	NA
Cadmium (Dissolved)	(ug/l)	5	NA	NA	3.0 U	3.0 U	3.0 U
Calcium	(ug/l)		70000	1200000	NA	NA	NA
Calcium (Dissolved)	(ug/l)		NA	NA	70400	69500	84900
Chromium	(ug/l)	50	[65]	500 U	NA	NA	NA
Chromium (Dissolved)	(ug/l)	50	NA	NA	10 U	10 U	10 U
Cobalt	(ug/l)		17	500 U	NA	NA	NA
Cobalt (Dissolved)	(ug/l)		NA	NA	50 U	50 U	50 U
Copper	(ug/l)	200	40	1000 U	NA	NA	NA
Copper (Dissolved)	(ug/l)	200	NA	NA	10 U	10 U	10 U
Iron	(ug/l)	300	[25000]	[37000]	NA	NA	NA
Iron (Dissolved)	(ug/l)	300	NA	NA	100 U	100 U	100 U
Lead	(ug/l)	25	10	500 U	NA	NA	NA
Lead (Dissolved)	(ug/l)	25	NA	NA	3.0 U	3.0 U	3.0 U
Magnesium	(ug/l)	35000	18000	[200000]	NA	NA	NA
Magnesium (Dissolved)	(ug/l)	35000	NA	NA	13700	13600	17800
Manganese	(ug/l)	300	[1100]	[9800]	NA	NA	NA
Manganese (Dissolved)	(ug/l)	300	NA	NA	[3600]	[3330]	[2030]
Mercury	(ug/l)	0.7	1 U	1 U	NA	NA	NA

See the Endnotes following the last page of this Table.

Table 9
Groundwater Sampling Results
Metals
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/09/2008 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Water

CONSTITUENT	SITE		GW-01	GW-06	GW-07	GW-07	GW-08
	LAB SAMPLE ID		0806007_14	0806007_8	JB9125-3	JB9125-10	JB9125-4
	DATE	NYSDEC	06/10/2008	06/09/2008	06/15/2012	06/15/2012	06/15/2012
	RESULT TYPE	TOGS	Primary	Primary	Primary	Duplicate 1	Primary
Mercury (Dissolved)	(ug/l)	0.7	NA	NA	0.20 U	0.20 U	0.20 U
Nickel	(ug/l)	100	60	1000 U	NA	NA	NA
Nickel (Dissolved)	(ug/l)	100	NA	NA	33.5	32.7	26.5
Potassium	(ug/l)		8800	100000 U	NA	NA	NA
Potassium (Dissolved)	(ug/l)		NA	NA	10000 U	10000 U	10000 U
Selenium	(ug/l)	10	10 U	1000 U	NA	NA	NA
Selenium (Dissolved)	(ug/l)	10	NA	NA	10 U	10 U	10 U
Silver	(ug/l)	50	5 U	500 U	NA	NA	NA
Silver (Dissolved)	(ug/l)	50	NA	NA	10 U	10 U	10 U
Sodium	(ug/l)	20000	10000	[1700000]	NA	NA	NA
Sodium (Dissolved)	(ug/l)	20000	NA	NA	[109000]	[108000]	[113000]
Thallium	(ug/l)	0.5	5 U	1000 U	NA	NA	NA
Thallium (Dissolved)	(ug/l)	0.5	NA	NA	2.0 U	2.0 U	2.0 U
Vanadium	(ug/l)		23	500 U	NA	NA	NA
Vanadium (Dissolved)	(ug/l)		NA	NA	50 U	50 U	50 U
Zinc	(ug/l)	2000	80	1200	NA	NA	NA
Zinc (Dissolved)	(ug/l)	2000	NA	NA	20 U	20 U	20 U

See the Endnotes following the last page of this Table.

Table 9
Groundwater Analytical Results
Metals
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

Notes:

- $\mu\text{g/l}$ = micrograms per liter (parts per billion; ppb).
- NYSDEC TOGS = Standards listed are the New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 values.
- Bracketed values indicate exceedances of TOGS.
- NA – Compound not analyzed for.

Qualifiers

- | | |
|--------------|---|
| no qualifier | The compound was positively identified at the associated numerical value which is the concentration of the compound in the sample. |
| U | Non-Detect. The compound was analyzed for, but not detected. The associated numerical value is the reporting limit. The value is usable as a non-detect at the reporting limit. |

Table 10
Soil Vapor Sampling Results
Volatile Organic Compounds (VOCs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/15/2012 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Air

CONSTITUENT	SITE	NYSDOH Guidance	SV-01	SV-02	SV-03	SV-04
	LAB SAMPLE ID		JB9116-1	JB9116-2	JB9116-3	JB9116-4
	DATE		06/15/2012	06/15/2012	06/15/2012	06/15/2012
1,1,1-Trichloroethane	(ug/m3)	100	4.4 U	4.4 U	4.4 U	4.4 U
1,1,2,2-Tetrachloroethane	(ug/m3)		5.5 U	5.5 U	5.5 U	5.5 U
1,1,2-Trichloroethane	(ug/m3)		4.4 U	4.4 U	4.4 U	4.4 U
1,1-Dichloroethane	(ug/m3)		3.2 U	3.2 U	3.2 U	3.2 U
1,1-Dichloroethene	(ug/m3)		3.2 U	3.2 U	3.2 U	3.2 U
1,2,4-Trichlorobenzene	(ug/m3)		5.9 U	5.9 U	5.9 U	5.9 U
1,2,4-Trimethylbenzene	(ug/m3)		68.3	48	50.1	59.5
1,2-Dibromoethane	(ug/m3)		6.1 U	6.1 U	6.1 U	6.1 U
1,2-Dichlorobenzene	(ug/m3)		4.8 U	4.8 U	4.8 U	4.8 U
1,2-Dichloroethane	(ug/m3)		3.2 U	3.2 U	3.2 U	3.2 U
1,2-Dichloropropane	(ug/m3)		3.7 U	3.7 U	3.7 U	3.7 U
1,3,5-Trimethylbenzene	(ug/m3)		20	14	14	17
1,3-Butadiene	(ug/m3)		1.8 U	1.8 U	1.8 U	1.8 U
1,3-Dichlorobenzene	(ug/m3)		4.8 U	4.8 U	4.8 U	4.8 U
1,4-Dichlorobenzene	(ug/m3)		4.8 U	4.8 U	4.8 U	4.8 U
1,4-Dioxane	(ug/m3)		2.9 U	2.9 U	2.9 U	2.9 U
2,2,4-Trimethylpentane	(ug/m3)		16	7.5	7.0	7.0
2-Butanone	(ug/m3)		39.8	25	27	21
2-Chlorotoluene	(ug/m3)		4.1 U	4.1 U	4.1 U	4.1 U
2-Hexanone	(ug/m3)		55.6	33	41.3	42.1
4-Ethyltoluene	(ug/m3)		16	11	11	13
4-Methyl-2-Pentanone	(ug/m3)		81.6	49.6	59.4	60.2
Acetone	(ug/m3)		815	337	432	397
Allyl chloride	(ug/m3)		2.5 U	2.5 U	2.5 U	2.5 U
Benzene	(ug/m3)		20	12	12	14
Benzyl chloride	(ug/m3)		4.1 U	4.1 U	4.1 U	4.1 U
Bromodichloromethane	(ug/m3)		5.4 U	5.4 U	5.4 U	5.4 U
Bromoform	(ug/m3)		8.3 U	8.3 U	8.3 U	8.3 U
Bromomethane	(ug/m3)		3.1 U	3.1 U	3.1 U	3.1 U

See the Endnotes following the last page of this Table.

Table 10
Soil Vapor Sampling Results
Volatile Organic Compounds (VOCs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/15/2012 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Air

CONSTITUENT	SITE	NYSDOH Guidance	SV-01	SV-02	SV-03	SV-04
	LAB SAMPLE ID		JB9116-1	JB9116-2	JB9116-3	JB9116-4
	DATE		06/15/2012	06/15/2012	06/15/2012	06/15/2012
Carbon Disulfide	(ug/m3)		10	5.3	5.0	9.3
Carbon Tetrachloride	(ug/m3)		5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	(ug/m3)		3.7 U	3.7 U	3.7 U	3.7 U
Chloroethane	(ug/m3)		2.1 U	2.1 U	2.1 U	2.1 U
Chloroform	(ug/m3)		3.9 U	3.9 U	3.9 U	3.9 U
Chloromethane	(ug/m3)		1.7 U	1.7 U	1.7 U	1.7 U
cis-1,2-Dichloroethene	(ug/m3)		3.2 U	3.2 U	3.2 U	3.2 U
cis-1,3-Dichloropropene	(ug/m3)		3.6 U	3.6 U	3.6 U	3.6 U
Cyclohexane	(ug/m3)		12	6.2	6.2	6.5
Dibromochloromethane	(ug/m3)		6.8 U	6.8 U	6.8 U	6.8 U
Dichlorodifluoromethane	(ug/m3)		3.5 J	2.7 J	3.0 J	2.6 J
Ethanol	(ug/m3)		20.3	22.4	24.3	17
Ethyl acetate	(ug/m3)		42.1	2.9 U	4.7	61.2
Ethylbenzene	(ug/m3)		40	28	27	30
Freon 113	(ug/m3)		6.1 U	6.1 U	6.1 U	6.1 U
Freon 114	(ug/m3)		5.6 U	5.6 U	5.6 U	5.6 U
Heptane	(ug/m3)		32	14	14	16
Hexachlorobutadiene	(ug/m3)		8.5 U	8.5 U	8.5 U	8.5 U
Hexane	(ug/m3)		34	22	21	19
Isopropyl Alcohol	(ug/m3)		2.0 U	2.0 U	4.4	3.2
m+p-Xylene	(ug/m3)		179	127	131	147
Methyl methacrylate	(ug/m3)		3.3 U	3.3 U	3.3 U	3.3 U
Methyl Tertiary Butyl Ether	(ug/m3)		2.9 U	2.9 U	2.9 U	2.9 U
Methylene Chloride	(ug/m3)		2.8 U	12	22	13
o-Xylene	(ug/m3)		59.1	41	42	46.9
Propylene	(ug/m3)		49.6	22.7	8.8	33.5
Styrene	(ug/m3)		3.4 U	3.4 U	3.4 U	3.4 U
Tertiary Butyl Alcohol	(ug/m3)		7.3	3.9	6.4	5.8
Tetrachloroethene	(ug/m3)	100	21	9.5	15	[111]

See the Endnotes following the last page of this Table.

[x]=Greater than Action Level

Table 10
 Soil Vapor Sampling Results
 Volatile Organic Compounds (VOCs)
 Bluestone Jamaica I, LLC
 90-11 & 90-14 161st Street, Queens, New York

PERIOD: From 06/15/2012 thru 06/15/2012 - Inclusive

SAMPLE TYPE: Air

CONSTITUENT	SITE		SV-01	SV-02	SV-03	SV-04
	LAB SAMPLE ID	NYSDOH	JB9116-1	JB9116-2	JB9116-3	JB9116-4
	DATE	Guidance	06/15/2012	06/15/2012	06/15/2012	06/15/2012
Tetrahydrofuran	(ug/m3)		2.4 U	2.4 U	2.4 U	2.4 U
Toluene	(ug/m3)		196	124	133	145
trans-1,2-Dichloroethene	(ug/m3)		3.2 U	3.2 U	3.2 U	3.2 U
trans-1,3-Dichloropropene	(ug/m3)		3.6 U	3.6 U	3.6 U	3.6 U
Trichloroethene	(ug/m3)	5.0	0.86 U	0.86 U	0.86 U	0.86 U
Trichlorofluoromethane	(ug/m3)		13	21	25	12
Vinyl Acetate	(ug/m3)		2.8 U	2.8 U	2.8 U	2.8 U
Vinyl bromide	(ug/m3)		3.5 U	3.5 U	3.5 U	3.5 U
Vinyl chloride	(ug/m3)		2.0 U	2.0 U	2.0 U	2.0 U
Xylene (total)	(ug/m3)		238	169	172	194

See the Endnotes following the last page of this Table.

Table 10
Soil Vapor Sampling Results
Volatile Organic Compounds (VOCs)
Bluestone Jamaica I, LLC
90-11 & 90-14 161st Street, Queens, New York

Notes:

- $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
- NYSDOH Guidance = New York State Department Of Health's (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York; Table 3.1 - Air guideline values derived by the NYSDOH.
- Bracketed values indicate exceedances of NYSDOH Guidance.

Qualifiers

no qualifier	The compound was positively identified at the associated numerical value which is the concentration of the compound in the sample.
U	Non-Detect. The compound was analyzed for, but not detected. The associated numerical value is the reporting limit. The value is usable as a non-detect at the reporting limit.
J	Estimated value. The compound was detected at a concentration below the reporting limit but greater than the method detection limit (MDL). The value is usable as an estimated result.

APPENDIX A

CITIZEN PARTICIPATION PLAN

The NYC Office of Environmental Remediation and Bluestone Jamaica I, LLC have established this Citizen Participation Plan because the opportunity for citizen participation is an important component of the NYC Voluntary Cleanup Program. This Citizen Participation Plan describes how information about the project will be disseminated to the Community during the remedial process. As part of its obligations under the NYC VCP, Bluestone Jamaica I, LLC will maintain a repository for project documents and provide public notice at specified times throughout the remedial program. This Plan also takes into account potential environmental justice concerns in the community that surrounds the project Site. Under this Citizen Participation Plan, project documents and work plans are made available to the public in a timely manner. Public comment on work plans is strongly encouraged during public comment periods. Work plans are not approved by the NYC Office of Environmental Remediation (OER) until public comment periods have expired and all comments are formally reviewed. An explanation of cleanup plans in the form of a public meeting or informational session is available upon request to OER's project manager assigned to this Site, Ms. Hannah Moore, who can be contacted about these issues or any others questions, comments or concerns that arise during the remedial process at (212) 788-8841

Project Contact List. OER has established a Site Contact List for this project to provide public notices in the form of fact sheets to interested members of the Community. Communications will include updates on important information relating to the progress of the cleanup program at the Site as well as to request public comments on the cleanup plan. The Project Contact List includes owners and occupants of adjacent buildings and homes, principal administrators of nearby schools, hospitals and day care centers, the public water supplier that serves the area, established document repositories, the representative Community Board, City Council members, other elected representatives and any local Brownfield Opportunity Area (BOA) grantee organizations. Any member of the public or organization will be added to the Site Contact List on request. A copy of the Site Contact List is maintained by OER's project manager. If you would like to be added to the Project Contact List, contact NYC OER at (212) 788-8841 or by email at brownfields@cityhall.nyc.gov.

Repositories. A document repository is maintained in the nearest public library that maintains evening and weekend hours. This document repository is intended to house, for community review, all principal documents generated during the cleanup program including Remedial Investigation plans and reports, Remedial Action work plans and reports, and all public notices and fact sheets produced during the lifetime of the remedial project. Bluestone Jamaica I, LLC will inspect the repositories to ensure that they are fully populated with project information. The repository for this project is:

Queens Library: Central Branch

89-11 Merrick Boulevard, Queens, NY 11432

(718) 990-0700

Call for Hours of Operation

Digital Documentation. NYC OER strongly encourages the use of digital documents in repositories as a means of minimizing paper use while also increasing convenience in access and ease of use.

Public Notice and Public Comment. Public notice to all members of the Project Contact List is required at three major steps during the performance of the cleanup program (listed below) and at other points that may be required by OER. Notices will include Fact Sheets with descriptive project summaries, updates on recent and upcoming project activities, repository information, and important phone and email contact information. All notices will be prepared by Bluestone Jamaica I, LLC, reviewed and approved by OER prior to distribution and mailed by Bluestone Jamaica I, LLC. Public comment is solicited in public notices for all work plans developed under the NYC Voluntary Cleanup Program. Final review of all work plans by OER will consider all public comments. Approval will not be granted until the public comment period has been completed.

Citizen Participation Milestones. Public notice and public comment activities occur at several steps during a typical NYC VCP project. See flow chart on the following page, which identifies when during the NYC VCP public notices are issued: These steps include:

- **Public Notice of the availability of the Remedial Investigation Report and Remedial Action Work Plan and a 30-day public comment period on the Remedial Action Work Plan.**

Public notice in the form of a Fact Sheet is sent to all parties listed on the Site Contact List announcing the availability of the Remedial Investigation Report and Remedial Action Work Plan and the initiation of a 30-day public comment period on the Remedial Action Work Plan. The Fact Sheet summarizes the findings of the RIR and provides details of the RAWP. The public comment period will be extended an additional 15 days upon public request. A public meeting or informational session will be conducted by OER upon request.

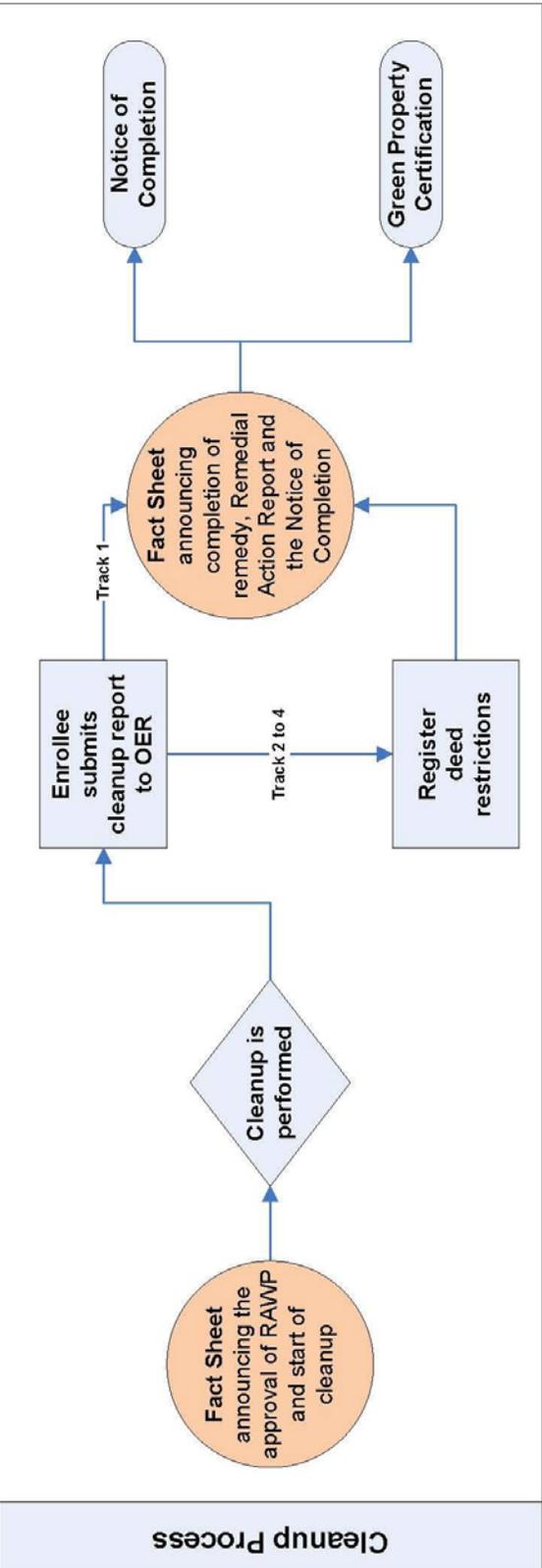
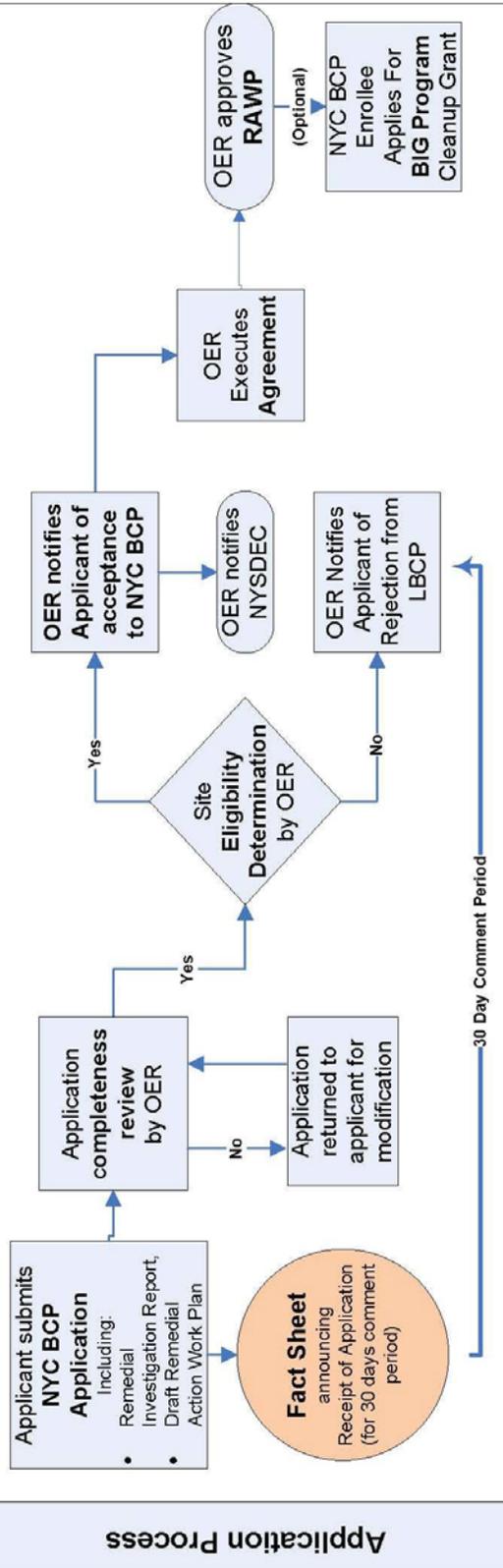
- **Public Notice announcing the approval of the RAWP and the start of remediation**

Public notice in the form of a Fact Sheet is sent to all parties listed on the Site Contact List announcing the approval of the RAWP and the start of remediation.

- **Public Notice announcing the completion of remediation, designation of Institutional and Engineering Controls and issuance of the Notice of Completion**

Public notice in the form of a Fact Sheet is sent to all parties listed on the Site Contact List announcing the completion of remediation, providing a list of all Institutional and Engineering Controls implemented for to the Site and announcing the issuance of the Notice of Completion.

Flow Chart For NYC Brownfield Cleanup Program (NYC BCP)



APPENDIX B

SUSTAINABILITY STATEMENT

This Sustainability Statement documents sustainable activities and green remediation efforts planned under this remedial action.

Reuse of Clean, Recyclable Materials. Reuse of clean, locally-derived recyclable materials reduces consumption of non-renewable virgin resources and can provide energy savings and greenhouse gas reduction.

An estimate of the quantity (in tons) of clean, non-virgin materials (reported by type of material) reused under this plan will be quantified and reported in the RAR.

Reduce Consumption of Virgin and Non-Renewable Resources. Reduced consumption of virgin and non-renewable resources lowers the overall environmental impact of the project on the region by conserving these resources.

An estimate of the quantity (in tons) of virgin and non-renewable resources, the use of which will be avoided under this plan, will be quantified and reported in the RAR.

Reduced Energy Consumption and Promotion of Greater Energy Efficiency. Reduced energy consumption lowers greenhouse gas emissions, improves local air quality, lessens in-city power generation requirements, can lower traffic congestion, and provides substantial cost savings.

Best efforts will be made to quantify energy efficiencies achieved during the remediation and will be reported in the Remedial Action Report (RAR). Where energy savings cannot be easily quantified, a gross indicator of the amount of energy saved or the means by which energy savings was achieved will be reported.

Conversion to Clean Fuels. Use of clean fuel improves NYC's air quality by reducing harmful emissions.

An estimate of the volume of clean fuels used during remedial activities will be quantified and reported in the RAR.

Recontamination Control. Recontamination after cleanup and redevelopment is completed undermines the value of work performed, may result in a property that is less protective of public health or the environment, and may necessitate additional cleanup work later or impede future redevelopment. Recontamination can arise from future releases that occur within the property or by influx of contamination from off-Site.

An estimate of the area of the Site that utilizes recontamination controls under this plan will be reported in the RAR in square feet.

Storm-water Retention. Storm-water retention improves water quality by lowering the rate of combined storm-water and sewer discharges to NYC's sewage treatment plants during periods of precipitation, and reduces the volume of untreated influent to local surface waters.

An estimate of the enhanced storm-water retention capability of the redevelopment project will be included in the RAR.

Linkage with Green Building. Green buildings provide a multitude of benefits to the city across a broad range of areas, such as reduction of energy consumption, conservation of resources, and reduction in toxic materials use.

The number of Green Buildings that are associated with this brownfield redevelopment property will be reported in the RAR. The total square footage of green building space created as a function of this brownfield redevelopment will be quantified for residential, commercial and industrial/manufacturing uses.

Paperless Voluntary Cleanup Program. Bluestone Jamaica I, LLC is participating in OER's Paperless Voluntary Cleanup Program. Under this program, submission of electronic documents will replace submission of hard copies for the review of project documents, communications and milestone reports.

Low-Energy Project Management Program. Bluestone Jamaica I, LLC is participating in OER's low-energy project management program. Under this program, whenever possible, meetings are held using remote communication technologies, such as video conferencing and

teleconferencing to reduce energy consumption and traffic congestion associated with personal transportation.

Trees and Plantings. Trees and other plantings provide habitat and add to NYC's environmental quality in a wide variety of ways. Native plant species and native habitat provide optimal support to local fauna, promote local biodiversity, and require less maintenance.

An estimate of the land area that will be vegetated, including the number of trees planted or preserved, will be reported in square feet in the RAR.

APPENDIX C

SOIL/MATERIALS MANAGEMENT PLAN

1.1 SOIL SCREENING METHODS

Visual, olfactory and PID soil screening and assessment will be performed under the supervision of a Qualified Environmental Professional and will be reported in the RAR. Soil screening will be performed during invasive work performed during the remedy and development phases prior to issuance of the Notice of Completion.

1.2 STOCKPILE METHODS

Excavated soil from suspected areas of contamination (e.g., hot spots, USTs, drains, etc.) will be stockpiled separately and will be segregated from clean soil and construction materials. Stockpiles will be used only when necessary and will be removed as soon as practicable. While stockpiles are in place, they will be inspected daily, and before and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by OER. Excavated soils will be stockpiled on, at minimum, double layers of 8-mil minimum sheeting, will be kept covered at all times with appropriately anchored plastic tarps, and will be routinely inspected. Broken or ripped tarps will be promptly replaced.

All stockpile activities will be compliant with applicable laws and regulations. Soil stockpile areas will be appropriately graded to control run-off in accordance with applicable laws and regulations. Stockpiles of excavated soils and other materials shall be located at least 50 feet from the property boundaries, where possible. Hay bales or equivalent will surround soil stockpiles except for areas where access by equipment is required. Silt fencing and hay bales will be used as needed near catch basins, surface waters and other discharge points.

1.3 CHARACTERIZATION OF EXCAVATED MATERIALS

Soil/fill or other excavated media that is transported off-Site for disposal will be sampled in a manner required by the receiving facility, and in compliance with applicable laws and regulations. Soils proposed for reuse on-Site will be managed as defined in this plan.

1.4 MATERIALS EXCAVATION, LOAD-OUT AND DEPARTURE

The PE/QEP overseeing the remedial action will:

- oversee remedial work and the excavation and load-out of excavated material;
- ensure that there is a party responsible for the safe execution of invasive and other work performed under this work plan;
- ensure that Site development activities and development-related grading cuts will not interfere with, or otherwise impair or compromise the remedial activities proposed in this RAWP;
- ensure that the presence of utilities and easements on the Site has been investigated and that any identified risks from work proposed under this plan are properly addressed by appropriate parties;
- ensure that all loaded outbound trucks are inspected and cleaned if necessary before leaving the Site; and
- ensure that all egress points for truck and equipment transport from the Site will be kept clean of Site-derived materials during Site remediation.

Locations where vehicles exit the Site shall be inspected daily for evidence of soil tracking off premises. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials.

Open and uncontrolled mechanical processing of historical fill and contaminated soil on-Site will not be performed without prior OER approval.

1.5 OFF-SITE MATERIALS TRANSPORT

Loaded vehicles leaving the Site will comply with all applicable materials transportation requirements (including appropriate covering, manifests, and placards) in accordance with applicable laws and regulations, including use of licensed haulers in accordance with 6 NYCRR Part 364. If loads contain wet material capable of causing leakage from trucks, truck liners will

be used. Queuing of trucks will be performed on-Site, when possible in order to minimize off Site disturbance. Off-Site queuing will be minimized.

Outbound truck transport routes will be reported to OER prior to the start of the remedial action. This routing takes into account the following factors: (a) limiting transport through residential areas and past sensitive sites; (b) use of mapped truck routes; (c) minimizing off-Site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport. To the extent possible, all trucks loaded with Site materials will travel from the Site using these truck routes. Trucks will not stop or idle in the neighborhood after leaving the project Site.

1.6 MATERIALS DISPOSAL OFF-SITE

The following documentation will be established and reported by the PE/QEP for each disposal destination used in this project to document that the disposal of regulated material exported from the Site conforms with applicable laws and regulations: (1) a letter from the PE/QEP or Enrollee to each disposal facility describing the material to be disposed and requesting written acceptance of the material. This letter will state that material to be disposed is regulated material generated at an environmental remediation Site in Queens, New York, under a governmental remediation program. The letter will provide the project identity and the name and phone number of the PE/QEP or Enrollee. The letter will include as an attachment a summary of all chemical data for the material being transported; and (2) a letter from each disposal facility stating it is in receipt of the correspondence (1, above) and is approved to accept the material. These documents will be included in the RAR.

The Remedial Action Report will include an itemized account of the destination of all material removed from the Site during this remedial action. Documentation associated with disposal of all material will include records and approvals for receipt of the material. This information will be presented in the RAR.

All impacted soil/fill or other waste excavated and removed from the Site will be managed as regulated material and will be disposed in accordance with applicable laws and regulations. Historic fill and contaminated soils taken off-Site will be handled as solid waste and will not be disposed at a Part 360-16 Registration Facility (also known as a Soil Recycling Facility).

Waste characterization will be performed for off-Site disposal in a manner required by the receiving facility and in conformance with its applicable permits. Waste characterization sampling and analytical methods, sampling frequency, analytical results and QA/QC will be reported in the RAR. A manifest system for off-Site transportation of exported materials will be employed. Manifest information will be reported in the RAR. Hazardous wastes derived from on-Site will be stored, transported, and disposed of in compliance with applicable laws and regulations.

If disposal of soil/fill from this Site is proposed for unregulated disposal (i.e., clean soil removed for development purposes), including transport to a Part 360-16 Registration Facility, a formal request will be made for approval by OER with an associated plan compliant with 6NYCRR Part 360-16. This request and plan will include the location, volume and a description of the material to be recycled, including verification that the material is not impacted by site uses and that the material complies with receipt requirements for recycling under 6NYCRR Part 360. This material will be appropriately handled on-Site to prevent mixing with impacted material.

1.7 MATERIALS REUSE ON-SITE

It is not anticipated that soil and fill that is derived from the Site will be reused on-Site. Soil and fill that is derived from the property that meets the soil cleanup objectives established in this plan may be reused on-Site. The soil cleanup objectives for on-Site reuse are listed in RAWP section 4.2. . 'Reuse on-Site' means material that is excavated during the remedy or development, does not leave the property, and is relocated within the same property and on comparable soil/fill material, and addressed pursuant to the NYC VCP agreement subject to Engineering and Institutional Controls. The PE/QEP will ensure that reused materials are segregated from other materials to be exported from the Site and that procedures defined for material reuse in this RAWP are followed.

Organic matter (wood, roots, stumps, etc.) or other waste derived from clearing and grubbing of the Site will not be buried on-Site. Soil or fill excavated from the site for grading or other purposes will not be reused within a cover soil layer or within landscaping berms.

1.8 DEMARCATION

After completion of hotspot removal and any other invasive remedial activities, and prior to backfilling, the top of the residual soil/fill will be defined by one of three methods: (1) placement of a demarcation layer. The demarcation layer will consist of geosynthetic fencing or equivalent material to be placed on the surface of residual soil/fill to provide an observable reference layer. A description or map of the approximate depth of the demarcation layer will be provided in the SMP; or (2) a land survey of the top elevation of residual soil/fill before the placement of cover soils, pavement and associated sub-soils, or other materials or structures or, (3) all materials beneath the approved cover will be considered impacted and subject to site management after the remedy is complete. Demarcation may be established by one or any combination of these three methods. As appropriate, a map showing the method of demarcation for the Site and all associated documentation will be presented in the RAR.

This demarcation will constitute the top of the site management horizon. Materials within this horizon require adherence to special conditions during future invasive activities as defined in the Site Management Plan.

1.9 IMPORT OF BACKFILL SOIL FROM OFF-SITE SOURCES

This Section presents the requirements for imported fill materials. Imported soils will meet OER-approved backfill and cover soil quality objectives for this Site. Imported soil will meet the NYSDEC DER-10 soil criteria (Appendix 5 - Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4(e)) applicable to Restricted Residential Use SCO. In doing so, the material will meet the lower of the Restricted Residential SCOs or Protection of Groundwater SCOs.

A process will be established to evaluate sources of backfill and cover soil to be imported to the Site, and will include an examination of source location, current and historical use(s), and any applicable documentation. Material from industrial sites, spill sites, environmental remediation sites or other potentially contaminated sites will not be imported to the Site.

The following potential sources may be used pending attainment of backfill and cover soil quality objectives:

- Clean soil from construction projects at non-industrial sites in compliance with applicable laws and regulations;
- Clean soil from roadway or other transportation-related projects in compliance with applicable laws and regulations; and
- Clean recycled concrete aggregate (RCA) from facilities permitted or registered by the regulations of NYS DEC.

All materials received for import to the Site will be approved by a PE/QEP and will be in compliance with provisions in this RAWP. The RAR will report the source of the fill, evidence that an inspection was performed on the source, chemical sampling results, frequency of testing, and a Site map indicating the locations where backfill or soil cover was placed.

Source Screening and Testing

Inspection of imported fill material will include visual, olfactory and PID screening for evidence of contamination. Materials imported to the Site will be subject to inspection, as follows:

- Trucks with imported fill material will be in compliance with applicable laws and regulations and will enter the Site at designated locations;
- The PE/QEP is responsible to ensure that every truck load of imported material is inspected for evidence of contamination; and
- Fill material will be free of solid waste including pavement materials, debris, stumps, roots, and other organic matter, as well as ashes, oil, perishables or foreign matter.

Composite samples of imported material will be taken at a minimum frequency of one sample for every 500 cubic yards of material. Once it is determined that the fill material meets imported backfill or cover soil chemical requirements and is non-hazardous, and lacks petroleum contamination, the material will be loaded onto trucks for delivery to the Site.

Recycled concrete aggregate (RCA) will be imported from facilities permitted or registered by NYSDEC. Facilities will be identified in the RAR. A PE/QEP is responsible to ensure that the facility is compliant with 6NYCRR Part 360 registration and permitting requirements for the

period of acquisition of RCA. RCA imported from compliant facilities will not require additional testing, unless required by NYSDEC under its terms for operation of the facility. RCA imported to the Site must be derived from recognizable and uncontaminated concrete. RCA material is not acceptable for, and will not be used as cover material.

1.10 FLUIDS MANAGEMENT

All liquids to be removed from the Site, including dewatering fluids, will be handled, transported and disposed in accordance with applicable laws and regulations. Liquids discharged into the New York City sewer system will receive prior approval by New York City Department of Environmental Protection (NYC DEP). The NYC DEP regulates discharges to the New York City sewers under Title 15, Rules of the City of New York Chapter 19. Discharge to the New York City sewer system will require an authorization and sampling data demonstrating that the groundwater meets the City's discharge criteria. The dewatering fluid will be pretreated as necessary to meet the NYC DEP discharge criteria. If discharge to the City sewer system is not appropriate, the dewatering fluids will be managed by transportation and disposal at an off-Site treatment facility.

Discharge of water generated during remedial construction to surface waters (i.e. a stream or river) is prohibited without a SPDES permit issued by New York State Department of Environmental Conservation.

1.11 STORM-WATER POLLUTION PREVENTION

Applicable laws and regulations pertaining to storm-water pollution prevention will be addressed during the remedial program. Erosion and sediment control measures identified in this RAWP (silt fences and barriers, and hay bale checks) will be installed around the entire perimeter of the remedial construction area and inspected once a week and after every storm event to ensure that they are operating appropriately. Discharge locations will be inspected to determine whether erosion control measures are effective in preventing significant impacts to receptors. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by OER. All necessary repairs shall be made immediately. Accumulated sediments will be removed as required to keep the barrier and hay bale check

functional. Undercutting or erosion of the silt fence toe anchor will be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

1.12 CONTINGENCY PLAN

This contingency plan is developed for the remedial construction to address the discovery of unknown structures or contaminated media during excavation. Identification of unknown contamination source areas during invasive Site work will be promptly communicated to OER's Project Manager. Petroleum spills will be reported to the NYS DEC Spill Hotline. These findings will be included in the daily report. If previously unidentified contaminant sources are found during on-Site remedial excavation or development-related excavation, sampling will be performed on contaminated source material and surrounding soils and reported to OER. Chemical analytical testing will be performed for TAL metals, TCL volatiles and semi-volatiles, TCL pesticides and PCBs, as appropriate.

1.13 ODOR, DUST AND NUISANCE CONTROL

Odor Control

All necessary means will be employed to prevent on- and off-Site odor nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) use of foams to cover exposed odorous soils. If odors develop and cannot otherwise be controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-Site disposal; and (e) use of chemical odorants in spray or misting systems.

This odor control plan is capable of controlling emissions of nuisance odors. If nuisance odors are identified, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. OER will be notified of all odor complaint events. Implementation of all odor controls, including halt of work, will be the responsibility of the PE/QEP's certifying the Remedial Action Report.

Dust Control

Dust management during invasive on-Site work will include, at a minimum:

- Use of a dedicated water spray methodology for roads, excavation areas and stockpiles.
- Use of properly anchored tarps to cover stockpiles.
- Exercise extra care during dry and high-wind periods.
- Use of gravel or recycled concrete aggregate on egress and other roadways to provide a clean and dust-free road surface.

This dust control plan is capable of controlling emissions of dust. If nuisance dust emissions are identified, work will be halted and the source of dusts will be identified and corrected. Work will not resume until all nuisance dust emissions have been abated. OER will be notified of all dust complaint events. Implementation of all dust controls, including halt of work, will be the responsibility of the PE/QEP's responsible for certifying the Remedial Action Report.

Other Nuisances

Noise control will be exercised during the remedial program. All remedial work will conform, at a minimum, to NYC noise control standards.

Rodent control will be provided, during Site clearing and grubbing, and during the remedial program, as necessary, to prevent nuisances.

APPENDIX D

HEALTH AND SAFETY PLAN

CONSTRUCTION HEALTH AND SAFETY PLAN (CHASP)

90-14 161st Street
Jamaica, New York

NYC VCP Number: 13CVCP085Q

Prepared for:

Bluestone Jamaica I, LLC
193-04 Horace Harding Expressway
Fresh Meadows, NY 11365

Prepared by:

ERM Consulting & Engineering Inc.
40 Marcus Drive, Suite 200
Melville, NY 11747

**CONSTRUCTION HEALTH
AND SAFETY PLAN (CHASP)**

Ernie Rossano
Project Director

Christopher O'Leary
Project Manager

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Project Health and Safety Coordinator

Karen Pickering
Field Team Leader

Tiernan Smith
Site Safety Officer

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1	<i>Job Hazard Analysis Form</i>
2	<i>Daily Safety Meeting</i>
3	<i>Project Sign-in Sheet</i>
4	<i>Incident Report</i>
5	<i>Hospital Route Map and Directions</i>

INTRODUCTION

This Construction Health and Safety Plan (CHASP) has been developed by ERM for construction activities at 90-11 160th Street and 90-14 161st Street in Jamaica, New York (the Sites). The procedures set forth in this CHASP are designed to reduce the risk of exposure to chemical substances and physical or other hazards that may be present. The procedures described herein were developed to comply with Occupational Safety and Health Administration (OSHA) Regulations 29 CFR Part 1910.1025.

The recommended health and safety guidelines within this CHASP will be modified if future information changes the activities to be performed or the characterization of the area in which work is to be performed.

1.1 HEALTH AND SAFETY POLICY STATEMENT

ERM considers the health, safety, and well being of its employees to be of unconditional importance. Reflecting that concern, it is the policy of management to support the implementation of the Health and Safety Program. The proper resources (financial and human resources) are provided to ensure operation of a comprehensive program. The following policies will be employed:

- Prevention of occupational illnesses, accidents, resulting personal hardship, and financial loss takes precedence in the conduct of our business. Objectives of the Health and Safety Program include the identification of and the elimination or control of all hazards to personnel, products, equipment, and facilities.
- The active participation and involvement of all levels of management are essential to the success of the program. The Health and Safety Program Manager (HSPM) directs, reviews, and evaluates Health and Safety Program activities. The HSPM reports directly to the President of ERM.
- All levels of supervision are responsible for maintaining safe working conditions, instructing each subordinate in proper health and safety practices, and enforcing health and safety program specifications. In addition, each supervisor is responsible for discussing the specifications of the CHASP with each employee, and verifying that each employee understands/complies with health and safety directives.
- All employees have personal responsibility to conscientiously follow health and safety procedures, and to notify the project manager of potential or existing hazards to worker health or safety, so that they may be corrected prior to initiation or continuation of work.

Safe conduct is a condition of employment. Disregard for company safety rules are a serious infraction, and disciplinary action will be taken as outlined in this Section.

1.2 ERM PROJECT PERSONNEL AND RESPONSIBILITIES

ERM Project Director (PD):

Ernie Rossano

Responsible for all work and conducts ultimate Quality Assurance/Quality Control (QA/QC) overview.

ERM Project Manager (PM):

Christopher O'Leary

Manages day-to-day activities; reports to PD.

ERM Project Health and Safety Coordinator:

Paulina Gravier

Directs development of CHASP; provides technical advice on health and safety issues.

ERM Site Safety Officer (SSO):

Tiernan Smith

Responsible for implementation of CHASP; reports to PD and PM

2.0

FIELD ACTIVITIES

2.1 *SITE WORK*

The objective of this CHASP is to identify any hazards that pose a threat to personnel and property. The scope of work covered under this CHASP is comprised of the following tasks:

Demolition and Construction Activities:

The existing concrete footings on the sites will be demolished and construction will begin on the proposed building.

Soil Excavation:

Areas identified during the Phase II ESA investigation containing elevated levels of analytes will be excavated and contaminated soils will be shipped off-site.

3.0

HAZARD IDENTIFICATION AND CONTROL

3.1 HAZARD IDENTIFICATION PROCESS

Prior to initiating any new project activity or when there is a change in site conditions, the Site Safety Officer (SSO) will assist project team members in completing a Job Hazard Analysis (JHA). A copy of the JHA form is presented in Attachment 1.

3.1.1 *Chemical Hazards*

Chemicals may be introduced into the body by ingestion, inhalation, or absorption through the skin. Since not all chemicals have the same level of toxicity, the length of time for the exposure and the concentration of the chemical are important in determining the risk. Inhalation and skin contact are the most common routes of entry. Chemicals can be introduced into the body by ingestion when chemicals present on the hands are transferred to food or cigarettes.

Based on historical soil and groundwater sampling, the chemicals of concern may be encountered at the site are listed in Table 1 along with pertinent health and safety information.

3.1.2 *Heavy Machinery/Equipment*

All site employees must remain aware of those site activities that involve the use of heavy machinery. Repertory protection and protective eyewear must be worn frequently during site activities. The protective equipment significantly reduces peripheral vision of the wearer; therefore, it is essential that the employees at the site exercise extreme caution during operation of equipment and machinery to avoid physical injury to themselves or others.

3.1.3 *Vehicular Traffic*

All employees will be required to wear a fluorescent safety vest at all times while on site. In addition, supplemental traffic safety equipment use can be exercised when warranted by specific tasks. Supplemental equipment can be items such as cones, flags, barricades, and/or caution tape. Drivers of waste transportation vehicles will only exit vehicles in designated areas within the Support Zone. During this time, drivers will only be allowed to inspect the placement of waste loads and cover their trailers.

3.1.4 *Site-Specific/Task-Specific Hazards and Control Strategies*

The hazards and control strategies associated with planned work activities are summarized in Table 2. During the mobilization phase of a specific work task, the project team can quickly review the hazards and control strategies by locating the task or activity to be performed on the table. Hazards that are

common to all activities performed at the site at listed first. The hazards listed for a particular task or activity includes the common hazards.

4.0

PERSONAL PROTECTIVE EQUIPMENT

The level of PPE selected for a task is based on the following:

- Type and measured concentration of the chemical substance in the ambient atmosphere and its toxicity.
- Potential for exposure to substances in air, splashes of liquids or other direct contact with material due to work being done.
- Knowledge of chemicals on-site along with properties such as toxicity, route of exposure, and contaminant matrix.

In situations where the type of chemical, concentration, and possibilities of contact are not known, the appropriate level of protection must be selected based on professional experience and judgment until the hazards can be better identified.

In addition to summarizing the general PPE requirements for tasks performed at the site, Table 3 also serves as the written certification that the PPE Hazard Assessment has been conducted.

4.1 *RESPIRATORY PROTECTION*

The type of respiratory protection required will be based on the results of ambient air monitoring, the results of any models used to predict ambient air concentrations, and the professional judgment of either the SSO or the Project Health and Safety Coordinator.

As required by 29 CFR 1910.134, *Respiratory Protection*, a cartridge change-out schedule will be developed if it is necessary to upgrade to Level C based on either the results of ambient air monitoring, the results of any models used to predict ambient air concentration; or the professional judgment of the Project Health and Safety Coordinator. At a minimum, new respirator cartridges must be placed on the respirator at the beginning of the shift and after lunch.

5.0

HEAT AND COLD STRESS

5.1 HEAT STRESS

The timing of these activities may be such that heat stress may pose a threat to the health and safety of Site personnel. Acclimation periods and work/rest regimens will be implemented as necessary so that personnel do not suffer adverse effects from heat stress. Heat stress, if necessary, will be monitored in accordance with the American Conference of Governmental and Industrial Hygienists (ACGIH) Threshold Limit Values (TLV) for Heat Stress or equivalent when the temperature is greater than 80°F. The following work/rest regimen will be utilized:

<u>Temp °F</u>	<u>Work-Rest Regimen</u>
80	Work Break Every 2 hours.
82	75% Work - 25% Rest, each hour.
85	50% Work - 50% Rest, each hour.
88	25% Work - 75% Rest, each hour.
90	Delay work until cooler temperatures prevail.

Special clothing and an appropriate diet and fluid intake will be recommended for all Site personnel to further reduce these temperature-related hazards. A good rule of thumb to prevent dehydration from heat stress is that fluid intake should equal fluid loss from the body, which can be accomplished through frequent small intakes of water. Potable water and/or a drink substitute (i.e., Gatorade) will be available for employee consumption.

5.2 COLD STRESS

The timing of investigative or remediation activities may be such that cold stress may also present a threat to the health and safety of Site employees. Work/rest schedules, with rest in a warming shelter, will be implemented as necessary to reduce adverse effects from cold exposure. Cold stress, if necessary, will be monitored in accordance with the ACGIH TLV for Cold Stress or equivalent. The addition of wind speed and the resulting wind chill will be considered when determining an appropriate work/rest schedule and appropriate clothing.

Site personnel will be encouraged to consume water to avoid dehydration. Potable water and/or a drink substitute (i.e., Gatorade) shall be available for employee consumption. Workers will wear adequately insulated clothing to limit exposure to cold.

6.0

SAFE WORK PRACTICES AND STANDARD OPERATING PROCEDURES

6.1 GENERAL SITE PROVISIONS

6.1.1 Smoking and Eating Areas

Smoking will only be allowed in designated areas. Upon mobilization at the site, the SSO will establish smoking areas per site-specific or client-specific requirements. Individuals caught smoking outside the designated smoking areas will be subject to disciplinary action up to and including immediate termination.

Upon mobilization at the site, the SSO will establish eating and break areas per site-specific or client-specific requirements. Eating will only be allowed in the designated areas and the areas will be maintained in a clean and sanitary condition.

6.1.2 Temporary Facilities

This project will not require any temporary facilities.

6.1.3 Standard Operating Procedures

The following standard operating procedures will be adhered to at all times.

- All personnel entering the site must check in with the SSO.
- All individuals entering the site must demonstrate to the SSO that they have been adequately trained as defined in Section 8.0.
- All individuals must be familiar with emergency communication methods and how to summon emergency assistance.
- Use of alcoholic beverages before, during operations, or immediately after hours is absolutely forbidden. Alcohol can reduce the ability to detoxify compounds absorbed into the body as the result of minor exposures and may have negative effects with exposure to other chemicals. In addition, alcoholic beverages will dehydrate the body and intensify the effects of heat stress.
- Horseplay of any type is forbidden.
- All unsafe conditions will be immediately reported to the SSO, who will document such conditions in the field log. The SSO will be responsible for ensuring that the unsafe condition is corrected as quickly as possible.
- Smoking, matches, and lighters are only allowed in the designated smoking area.

- Avoid contact with potentially contaminated substances. Avoid, whenever possible, kneeling on the ground, or leaning or sitting on trucks, equipment or the ground. Do not place equipment on potentially contaminated surfaces.

6.2 SAFE WORK PRACTICES

6.2.1 Ergonomics

Ergonomic risk factors include repetitive motion, force, awkward posture, and vibration. The key to preventing ergonomic injuries is education of personnel relative to the hazards and risk factors and implementation of proper controls and work practices.

Several tasks associated with this project have the potential to cause back injuries, if proper lifting techniques are not followed. Site workers should not lift objects that are beyond their physical capabilities and the use of mechanical devices such as forklifts is encouraged. In addition, when shoveling, site workers should not twist their backs while moving materials with the shovel. The proper technique is to move the feet.

Proper lifting techniques are summarized below.

- Place feet, shoulder-width apart, with toes pointing slightly out.
- Bend at your knees keeping back straight.
- Get a good grip on the object and pull object close to your body.
- Tighten abdominal muscles.
- Keep your head up, looking forward, and lift with your legs while maintaining a straight back.
- Keep load close to your body and ensure your view is not obstructed.
- If one end of the load is heavier than the other, the heavier end should be closest to your body.
- Move your feet to relocate the object as opposed to twisting your back.
- When placing the object down, bend your knees and use your leg muscles while keeping your back straight.

6.3 PRE-DRILLING/PRE-EXCAVATION AND PROBING PROTOCOL

Prior to mobilizing to the field, the Contractor will be responsible for ensuring the following issues have been adequately addressed:

- Contacting One-Call or equivalent to identify underground pipelines, utility lines, and fiber optic cable.

- Contacting appropriate municipality to identify underground and sewer lines.
- Contacting posted pipeline companies.

6.4 FALL PROTECTION

This project does not involve working from heights more than six feet above grade.

6.5 WEATHER RELATED EVENTS

Weather related events that may impact fieldwork include, but are not limited to, rain, snow, and thunder/lightning. The SSO will be responsible for determining what site work can be performed safely in the rain and at what point work will cease due to either quality or safety issues. In the event of thunder and/or lightning, all work will be suspended until 15 minutes have elapsed from the last clap of thunder/flash of lightning.

During rain, lightning/thunder events, site workers should seek shelter in either a building or vehicle.

6.6 SOIL EXCAVATION/TANK REMOVAL

Excavation risk factors include collapse of excavation side walls, working with heavy machinery; manual handling of materials; working in proximity to traffic; electrical hazards from overhead and underground power-lines; and underground utilities, such as natural gas.

Trench protection (e.g. sloping of side walls, shoring) is required on all excavation greater than 5 feet deep in order to protect against collapse.

At no time during this project shall any employee or subcontractor enter into an open excavation. All excavations should be secured with fencing at the end of every work shift to protect against accidental entry in to an excavation.

6.7 NIGHT WORK

This project will not involve activities being performed at night.

6.8 NOISE

Employees performing any noisy task, such as but not limited to, operating heavy equipment, drilling, using power tools, or employees working within 20 feet of the person performing the task will wear hearing protection consisting of either earplugs or earmuffs. Personnel operating a drilling rig or standing within 20 feet of a drilling rig during operation will also wear hearing protection.

7.0

EMPLOYEE TRAINING

All employees and subcontractors working on-site, who may be exposed to hazardous substances, health hazards, or safety hazards and their supervisors and management responsible for the site will receive training meeting the requirements of 29 CFR 1910.120, *Hazardous Waste Operations and Emergency Response* (HAZWOPER) before they are permitted to engage in any job task. Employees will not be permitted to participate in or supervise field activities until they have been trained to a level required by their job function and responsibility. All site workers will receive training that, at a minimum, covers the following:

- Names of personnel and alternates responsible for site safety and health;
- Safety, health and other hazards present on the site;
- Use of PPE;
- Safe use of engineering controls and equipment on the site; and
- Medical surveillance requirements including recognition of symptoms and signs that might indicate overexposure to hazards.

7.1 SUBCONTRACTOR TRAINING

The SSO will verify that subcontractor personnel have received all appropriate training as required by this CHASP prior to their arriving on-site. Verification will consist of reviewing written training documentation such as copies of training certificates or cards. Copies of the written training documentation will be retained in the project file. Subcontractor personnel will not be allowed to work at the site unless said training documentation is available.

7.2 DAILY TAILGATE SAFETY MEETING

A tailgate safety meeting will be conducted each morning. The daily safety meeting meetings will include awareness concerns such as special concerns regarding health and safety, pollution prevention or a discussion of recent incidents or safety observations. Issues such as any changes to the CHASP will be addressed daily. The meetings will include a discussion of what tasks will be completed that day and how those tasks will be conducted safely. The meetings will be documented on the Daily Safety Meeting form found in Attachment 2.

MEDICAL SURVEILLANCE

All ERM employees are enrolled in a medical surveillance program. All employees receive an initial medical examination and consultation prior to assignment to any job site. In addition, employees receive an annual medical examination, a medical examination upon termination of employment, and a medical examination when the employee exhibits signs or symptoms relating to possible overexposure to hazardous substances or when an injury or exposure above published exposure limits has occurred in an emergency situation.

Additional medical surveillance should be provided for employees who:

- Are or may be exposed to hazardous substances or health hazards at or above published exposure levels for these substances for 30 days or more a year;
- Wear a respirator for 30 days or more a year or as required by 29 CFR 1910.134, *Respiratory Protection*; and
- Are injured, become ill or develop signs or symptoms due to possible overexposure involving hazardous substances or health hazards from an emergency response or hazardous waste operation.

9.0

SITE CONTROL MEASURES

9.1 *EXCAVATION*

The soil excavation and surrounding area will be considered the work zone. Excavations will take place in different area and new work zones will be delineated by the SSO. All work zones around open excavations will be bounded by orange snow fence and secured at the end of the work shift to prevent accidental entry into the area. The SSO will ensure that no one enters the work zone without the proper training and requirements. No persons including ERM employee or subcontractors will be allowed to enter any open excavations. All personnel entering the Work Zone will sign the project sign-in sheet in Attachment 3. Furthermore, all ERM personnel and subcontractor will sign-in at the start of each workday and sign-out at the end of each workday.

10.0

DECONTAMINATION PROCEDURES

Decontamination involves the orderly controlled removal of contaminants from both personnel and equipment. The purpose of decontamination procedures is to prevent the spreading of contaminated materials into uncontaminated areas. All site personnel should limit contact with contaminated soil, groundwater or equipment in order to reduce the need for extensive decontamination.

10.1 PERSONNEL DECONTAMINATION

The following decontamination procedures will be utilized:

- Clean rubber boots with water.
- Remove all PPE and dispose of the PPE in the designated drums.
- Wash hands and any skin that may have come in contact with affected soil or groundwater with moistened disposable towels, such as baby wipes, or soap and water.

11.0

CONFINED SPACE ENTRY PROCEDURES

Entry into permit-required confined spaces is not anticipated or permitted.

12.0

SPILL CONTAINMENT PROGRAM

If project activities involve the use of drums or other containers, the drums or containers will meet the appropriate DOT regulations and will be inspected and their integrity assured prior to being used or moved. Operations will be organized so as to minimize drum or container movement. Drums or containers that cannot be moved without failure will be over packed into an appropriate container.

In the event of an unexpected release of hydraulic fluid, engine oil, gasoline or diesel fuel, the release material will be absorbed with sorbent pads, which will be placed in a designated drum for disposal. Impacted soil will be excavated and placed on plastic sheeting and covered until characterization and/or disposal can be arranged.

13.0

SITE COMMUNICATION

Cell phones will be used for communication between the project team and the client and office.

*COMMUNICATION AND REVIEW OF SITE-SPECIFIC HEALTH AND SAFETY
PLAN*

An initial review of the site-specific CHASP will be held either prior to mobilization or after mobilization but prior to commencing work at the site to communicate CHASP details and answer questions to individuals working at the site. Daily tailgate safety meetings will be held each morning to review work practices for the day and to discuss safety issues. Any new hazard or safety information will be disseminated at the daily tailgate safety meeting or as needed throughout the day.

15.0

EMERGENCY RESPONSE PLAN

This section describes possible contingencies and emergency procedures to be implemented at the site.

15.1 PERSONNEL ROLES AND LINES OF AUTHORITY

The SSO has primary responsibility for site evacuation and notification in the event of an emergency situation. This includes taking appropriate measures to ensure the safety of site personnel and the public. Possible actions may involve the evacuation of personnel from the site area and ensuring that corrective measures have been implemented, appropriate authorities notified, and follow-up reports completed. If the SSO is not available, the ERM Project Geologist/Engineer will assume these responsibilities. Subcontractors are responsible for assisting the SSO in their mission within the parameters of their scope of work.

15.2 EMERGENCY ALARMS

Because of the small work area and mobility of work areas, an emergency evacuation plan and meeting place will be decided upon based on the final drilling or sampling locations.

15.3 REPORTING EMERGENCIES

All, including any late developing or aggravated injuries, must receive prompt medical attention. For non-life threatening injuries or illnesses site workers should be transported to the hospital. For life threatening injuries or illnesses, the local emergency responders should be contacted via 911.

The SSO is responsible for reporting all injuries, illnesses, fires, spills/releases, property damage or near misses to the following individuals.

- Injured/involved employee's supervisor
- ERM Project Manager
- ERM Partner-In-Charge
- ERM Project Health and Safety Consultant
- Client Contact

15.4 EMERGENCY CONTACTS

In case of an emergency, the SSO will contact the following as appropriate.

<i>Title/Name</i>	<i>Phone Numbers</i>
ERM Project Director Ernie Rossano.	Work: 631-756-8900 Mobile: 516-250-1429
Project Manager Christopher O'Leary	Work: 631-756-8900 Mobile: 631-316-3443
Site Safety Officer/ Geologist Tiernan Smith	Work: 631-756-8900 Mobile: 516-491-9061
Project Health and Safety Coordinator Paulina Gravier	Work: 212-447-1900 Mobile: 484-802-5243
Local Emergency Responders - all services	Phone: 911
Hospital: Lutheran Medical Center 15317 Jamaica Ave, Jamaica, NY	Phone: 718-297-4649

15.5 INCIDENT INVESTIGATIONS

An ERM Incident Form, Attachment 4, will be completed and forwarded to the Project Manager within 24 hours of an incident. All incidents will be investigated in a timely manner. The SSO and/or the Project Manager will schedule the investigation and include project supervision (ERM, subcontractors, and client), the injured/involved employee(s) and the Project Health and Safety Coordinator. Root cause analysis will be performed to assess the apparent cause and identify corrective measures to be implemented to prevent re-occurrence. The last page of the Incident Form is used to document the investigation.

15.6 DIRECTIONS TO NEAREST HOSPITAL

The nearest hospital is Misericordia Hospital Medical Center. A map and directions to the medical facility is located in Attachment 5.

Lutheran Medical Center
15317 Jamaica Ave, Jamaica, NY
(718)-297-4649

15.7 EMERGENCY DRILLS

In accordance with HAZWOPER Standard emergency response plans will be rehearsed regularly as part of the overall training program for site operations. The frequency of this drill (rehearsal) is outlined on Table 4. All drills will be documented on the Emergency Drill Evaluation Form found in Table 4. Drills do not need to be elaborate. A tabletop scenario during the daily safety meeting is an adequate drill.

16.0

SAFETY EQUIPMENT

A first aid kit containing first aid items for minor incidents only and a fire extinguisher is maintained in each ERM Northeast vehicle. If you are driving a personal vehicle or a rental vehicle, please rent a first aid kit and fire extinguisher from the equipment room.

17.0

CERTIFICATION OF FAMILIARITY WITH PLAN BY SITE PERSONNEL

By signing below, your signature certifies that you have read, understand and will abide by the contents of this CHASP.

Name	Signature	Company	Date

TABLES

**TABLE 1
SUMMARY OF CHEMICAL HAZARDS FOR CHEMICALS OF CONCERN
BLUESTONE JAMAICA I, LLC**

Chemical	Published Exposure Limit¹ (8-hour TWA²)	Routes of Exposure	Target Organs	Signs/Symptoms of Exposure (Acute versus Chronic Effects)	First Aid &Emergency Response
Chemical Name: Benzene CAS: 71-43-2 Vapor Pressure: 75 mmHg	1 ppm (OSHA PEL)	Inhalation Skin absorption Ingestion Skin or eye contact	Eyes, skin, respiratory system, bone marrow, blood and central nervous system.	Acute: Irritation eyes, skin, nose, throat, respiratory system, nausea, dizziness, staggered gate, headache, anorexia, Chronic: leukemia	Flush skin/eyes with water Administer artificial respiration if no breathing If ingested seek medical attention
Chemical Name: Xylene CAS: 1330-20-7 Vapor Pressure: 7 - 9 mmHg	100 ppm (OSHA PEL)	Inhalation Skin absorption Ingestion Skin or eye contact	Eyes, skin, blood, respiratory system, heart, liver,	Acute: headache, fatigue, nausea, flatulence, irritation of eyes nose and throat, visual disturbance Chronic:	Flush skin/eyes with water Administer artificial respiration if no breathing If ingested seek medical attention do not induce vomiting
Chemical Name: Napthalene CAS: 91-20-3 Vapor Pressure: 0.8 mmHg	10 ppm (OSHA PEL)	Inhalation Skin absorption Ingestion Skin or eye contact	Eyes, nose, throat, skin, blood, liver, kidneys, central nervous system	Acute: salivation, vomiting, fever, abdominal pain, labored breathing, Chronic: liver and kidney damage	Flush skin/eyes with water Administer artificial respiration if no breathing If ingested seek medical attention

Chemical	Published Exposure Limit 1 (8-hour TWA 2)	Routes of Exposure	Target Organs	Signs/Symptoms of Exposure (Acute versus Chronic Effects)	First Aid &Emergency Response
Chemical Name: 2 Methyl Naphthalene CAS: 75-35-4 Vapor Pressure: .068 mmHg	None -	Skin absorption Ingestion Skin or eye contact	Eye and Skin irritation.	Acute: Irritation eyes, skin,	Flush skin/eyes with water Administer artificial respiration if no breathing If ingested seek medical attention
Chemical Name: Ethyl Benzene CAS: 100-41-4 Vapor Pressure: 7 mmHg Ionization Potential: 8.76 eV	(OSHA PEL) 100 ppm	Inhalation, ingestion, skin and/or eye contact.	Eyes, skin, respiratory system, central nervous system	Acute: Irritation eyes, skin, mucous membrane, dermatitis, headache, narcosis, coma	Eye: Irrigate Immediately Skin: Soap/Flush promptly Breathing: Respiratory Support Ingestion: Medical attention immediately
Chemical Name: MTBE CAS: 1634-04-4 Vapor Pressure: 245 mmHg Ionization Potential: 9.24 eV	200 ppm (OSHA PEL)	Inhalation Skin adsorption Ingestion Skin or eye contact	headaches, nausea, dizziness, irritation of the nose or throat, and sense of confusion	Acute: headaches, nausea, dizziness, irritation of the nose or throat, and sense of confusion. Chronic: Carcinogen	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support If ingested seek medical attention immediately
Chemical Name: Toluene CAS: 108-88-3 Vapor Pressure: 21 mmHg	200 ppm (OSHA PEL)	Inhalation Skin adsorption Ingestion Skin or eye contact	Eyes, skin, respiratory system, liver, kidneys, central nervous system.	Acute: Irritation eyes, nose; lassitude (weakness, exhaustion), confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); anxiety, muscle fatigue, insomnia; paresthesia; dermatitis; liver, kidney damage.	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support If ingested seek medical attention immediately

Chemical	Published Exposure Limit 1 (8-hour TWA 2)	Routes of Exposure	Target Organs	Signs/Symptoms of Exposure (Acute versus Chronic Effects)	First Aid &Emergency Response
Chemical Name: PCBs	1 mg/m3 (OSHA PEL)	Inhalation Skin adsorption Ingestion Skin or eye contact	Eyes, skin, respiratory system, liver, kidneys, central nervous system.	Acute: lesions, rashes, and burning eyes and skin Chronic: toxic effects on the liver	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support If ingested seek medical attention immediately
Chemical Name: Dieldrin CAS: 60-57-1	.25 mg/m3 (OSHA PEL)	Inhalation Skin adsorption Ingestion Skin or eye contact	Central nervous system, liver, kidneys, skin	Acute: Headaches, dizziness, nausea, vomiting, sweating, tonic convulsions, coma Chronic: carcinogenic	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support If ingested seek medical attention immediately
Chemical Name: Lead CAS: 7439-92-1	TWA: 0.03 (mg/m3) NIOSH	Inhalation Skin adsorption Ingestion Skin or eye contact	blood, kidneys, central nervous system (CNS)	Chronic: Developmental Toxicity, possible mutagenic effect	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Move to fresh Air Respiratory support If ingested seek medical attention immediately Do not induce vomiting
Chemical Name: Chromium CAS: 7440-47-3	TWA: 0.5 (mg/m3) NIOSH	Inhalation, skin or eye contact	Kidneys, lungs, liver, upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage	Accute: skin (irritant) eye contact (irritant) Chronic: sneezing, redness of the throat, asthma, cough, polyps, chronic inflammation,. Effects on the nose include irritation, ulceration, and perforation of the nasal septum. Inflammation and ulceration of the larynx may also occur. Chronic exposure may cause liver and kidney damage.	Eye: Irrigate immediately Skin: Soap wash promptly, seek Medical attention Breathing: Move to fresh Air Respiratory support If ingested seek medical attention immediately Do not induce vomiting

Chemical	Published Exposure Limit 1 (8-hour TWA 2)	Routes of Exposure	Target Organs	Signs/Symptoms of Exposure (Acute versus Chronic Effects)	First Aid & Emergency Response
Chemical Name: Barium CAS: 7440-39-3	0.5 mg/m ³ (OSHA PEL)	Eyes, skin and inhalation	smooth muscles, heart, intestines, vascular constriction and bladder	Accute effects: Can cause irritation to the nose, throat, and upper respiratory tract. Causes severe irritation of the mouth, throat, and esophagus. Chronic Effects: Severe irritation or burns.	Eye: Irrigate immediately seek medical attention Skin: Soap wash promptly, seek Medical attention Breathing: Move to fresh Air Respiratory support If ingested seek medical attention immediately Do not induce vomiting
Chemical Name: Beryllium CAS: 7440-41-7	.002 mg/m ³ (OSHA PEL)	Inhalation	Lungs, heart	Acute: may irritate eyes or skin Chronic: prolonged exposure may cause serious lung disease	Eye: Irrigate immediately seek medical attention Breathing: Move to fresh Air Respiratory support ingested: drink large volume of water Induce vomiting

NOTES:

1. The most conservative published occupational exposure limit is listed. Sources for occupational exposure limits were OSHA and ACGIH.
 2. TWA = time weighted average.
 3. ppm – parts of contaminant per million parts of air.
- Sources of information include published exposure limits in 29 CFR 1910.1000 or the 2002 TLV Booklet published by ACGIH, NIOSH pocket guide, Chemical/Physical Properties from Texas Risk Reduction Program, International Chemical Safety Cards, MSDSs, and the HNU listing of Photoionization Characteristics of Selected Compounds.

**TABLE 2
SITE-SPECIFIC AND TASK-SPECIFIC HAZARDS AND CONTROL STRATEGIES
BLUESTONE JAMAICA I, LLC**

Task/Activity	Hazards	Control Strategy
All activities at site Level D PPE	Poisonous plants Non-stinging insects Stinging insects Thunder/Lightning	<ul style="list-style-type: none"> • Identify suspect plants • Vegetation control at or below ankle height by having client mow/weed-eat path and work area • Appropriate protective clothing disposable Tyvek™ coveralls, thin nitrile gloves, disposal boots, tape at wrists and ankles • Barrier cream for uncovered skin • Wash exposed body parts and equipment thoroughly after work in highly-vegetated areas • Insect repellent • Survey work area for presence of nests • Eliminate nests • If drilling, cease work following first indication of thunder/lightning • Shelter in buildings or vehicles not underneath trees or near drilling equipment • Begin work after 15 minutes has elapsed from last thunder/lightning
Drilling	Heavy equipment movement Dropped equipment, slip, trip or fall. Noise	<ul style="list-style-type: none"> • Personnel maintain eye contact with operators when near the rig. • Hard hats, steel-toe safety shoes and safety glasses worn during equipment operation. • Hearing protectors with proper noise reduction rating. • Safety glasses; chemical-resistant suits (as determined necessary by SSO)
Completion and development of groundwater well	Splashing of chemical in groundwater	

**TABLE 3
PERSONAL PROTECTION EQUIPMENT REQUIREMENTS
BLUESTONE JAMAICA I, LLC**

PPE Level	Ensemble Components	Anticipated Use
<p>Level D</p> <p>Should be worn only as a work uniform and not in any area with respiratory or skin hazards. It provides minimal protection against chemical hazards.</p>	<ul style="list-style-type: none"> • Long pants and shirt with sleeves • Steel-toed footwear • Safety glasses with molded side shields or goggles. • Hard hat if potential for head injury or falling debris is possible/or client requirement • General purpose work gloves if task does not involve water or wet materials • Hearing protection • High visibility traffic vest when in traffic areas 	<p>All activities unless otherwise directed by the SSO, PM, and Project Manager and Project Health and Safety Coordinator</p>
<p>Modified Level D</p>	<p>Level D and the following:</p> <ul style="list-style-type: none"> • Disposal Tyvek coveralls • Steel-toed rubber boots or disposal boot covers over shoes • Thin nitrile gloves • Green nitrile gloves over thin nitrile gloves when primary gloves may tear or puncture 	<p>Any of the above-referenced tasks in which there is moderate potential for skin contact</p>
<p>Level C</p> <p>Should be worn when the criteria for using air-purifying respirators are met, and a lesser level of skin protection is needed.</p>	<p>Level D or Modified Level D and the following:</p> <ul style="list-style-type: none"> • Half-face air purifying respirator with combination organic vapor/high efficiency particulate air (HEPA) cartridges 	<p>Any of the above-referenced tasks in which there is moderate potential for skin contact with constituents and data indicating need for respiratory protection.</p> <p>No upgrade to Level C without approval from Project Manager and Project Health and Safety Coordinator</p>
<p>Level B</p> <p>Should be worn when the highest level of respiratory protection is needed, but a lesser level of skin protection is needed.</p>	<p>Not anticipated to be required</p>	<p>Tasks requiring Level B PPE are not anticipated during this project. If Level B PPE is needed, as determined by the SSO and/or the Project Health and Safety Consultant, the HASP will be revised.</p>
<p>Level A</p> <p>Should be worn when the highest level of respiratory, skin, and eye protection is needed.</p>	<p>Not anticipated to be required</p>	<p>Tasks requiring Level A PPE are not anticipated during this project. If Level A PPE is needed, as determined by the SSO and/or the Project Health and Safety Consultant, the HASP will be revised</p>

TABLE 4
EMERGENCY DRILL FREQUENCY
BLUESTONE JAMAICA I, LLC

<i>Project Duration</i>	<i>Drill Frequency</i>
Less than 30 days	None, cover during review/sign-off of HASP
Greater than one month but less than one year	Once
Greater than one year	Annually

ATTACHMENTS

ATTACHMENT 1

Job Hazard Analysis



JOB HAZARD ANALYSIS

Required for those field projects that do not require a HASP (see Project Safety Evaluation Checklist). JHAs also are used to supplement HASPs.

Prior to conducting fieldwork a Job Hazard Analysis must be completed and reviewed with all members of the Project Team. At the time of site mobilization, the job Hazard Analysis will be verified and reviewed again with the Project Team at the beginning of each day as fieldwork continues.

Client:	W.O.#
Project Name:	
Location:	
ERM Project Director:	Date:
ERM Project Manager:	Revision No.:
ERM Project Team:	
Subcontractors:	

Field Work Description

NOTE: For any hazards that are not applicable for your task, mark the left hand column with N/A. Do not leave any hazards blank.

Hazard Identification	Describe Hazard Control (appropriate for site)
Job Location/Setting:	<input type="checkbox"/> Industrial facility <input type="checkbox"/> Commercial are <input type="checkbox"/> Urban area <input type="checkbox"/> Residential area <input type="checkbox"/> Undeveloped/vacant <input type="checkbox"/> Lone worker
<input type="checkbox"/> Chemicals at site List or attach separate page:	<input type="checkbox"/> MSDS or chemical information available to project team for each chemical (required) <input type="checkbox"/> PPE (see PPE Section) <input type="checkbox"/> Exposure monitoring <input type="checkbox"/> Decontamination: Specify methods:
<input type="checkbox"/> Chemicals ERM will take to site	<input type="checkbox"/> Attach copies of MSDSs for all chemicals to en to clients site.
<input type="checkbox"/> Dust-Describe source	<input type="checkbox"/> PPE (<i>see</i> PPE Section) <input type="checkbox"/> Exposure monitoring (see monitoring section) <input type="checkbox"/> Dust suppression
<input type="checkbox"/> Confined Space	Coordinator ERM Health and Safety for assistance

Hazard Identification	Describe Hazard Control (appropriate for site)
<input type="checkbox"/> Slips (Wet Surface), Trips and Falls <ul style="list-style-type: none"> <input type="checkbox"/> fall less than 6 feet <input type="checkbox"/> fall more than 6 feet 	<input type="checkbox"/> Clean/ dry surfaces <input type="checkbox"/> Barricade the unsafe area <input type="checkbox"/> Eyes on path <input type="checkbox"/> Relocate the work area <input type="checkbox"/> Use alternate route <input type="checkbox"/> Use a construction platform <input type="checkbox"/> Tie-off to equipment <input type="checkbox"/> Move work to ground level <input type="checkbox"/> Fall restraint, guardrails, short lanyard
<input type="checkbox"/> Electrical Shock	<input type="checkbox"/> Area around electrical equipment dry <input type="checkbox"/> Energy isolation or Lock-out/Tag-out (LOTO) <input type="checkbox"/> Grounding <input type="checkbox"/> GCFI <input type="checkbox"/> Shielding on equipment
<input type="checkbox"/> Combustible materials, Fire, Explosion	<input type="checkbox"/> Remove combustible materials <input type="checkbox"/> Relocate work <input type="checkbox"/> Isolation/ LOTO <input type="checkbox"/> Area air monitoring <input type="checkbox"/> PPE/ Flame Retardant Clothing (FRC) (See PPE Section) <input type="checkbox"/> Fire watch <input type="checkbox"/> Fire extinguisher available
<input type="checkbox"/> Heat/Cold Stress	<input type="checkbox"/> Work/Rest regimen <input type="checkbox"/> Task rotation, shared tasks <input type="checkbox"/> Source of cool water/electrolyte replacement drinks <input type="checkbox"/> Ventilation
<input type="checkbox"/> Noise - Describe source	<input type="checkbox"/> PPE (see PPE Section) <input type="checkbox"/> Relocate work <input type="checkbox"/> Control noise source
<input type="checkbox"/> Lighting/ Visibility	<input type="checkbox"/> Adequate for task <input type="checkbox"/> Nighttime considerations <input type="checkbox"/> PPE (see PPE Section) <input type="checkbox"/> Safety cones
<input type="checkbox"/> Lifting, Pulling, Pushing, Repetitive Motion	<input type="checkbox"/> Get equipment designed for the job <input type="checkbox"/> Proper technique <input type="checkbox"/> Smaller, lighter loads <input type="checkbox"/> Prepared for "unexpected release" <input type="checkbox"/> Move feet to turn with load
<input type="checkbox"/> Airborne/Flying Material	<input type="checkbox"/> Cover/Shield source <input type="checkbox"/> PPE (see PPE Section) <input type="checkbox"/> Positioning
<input type="checkbox"/> Rotating/Moving Equipment and Pinch Points	<input type="checkbox"/> Energy isolation, Lock-out/Tag-out (LOTO) <input type="checkbox"/> Guarding, barricading <input type="checkbox"/> No loose clothing <input type="checkbox"/> Positioning
<input type="checkbox"/> Sharp Objects	<input type="checkbox"/> Guarding <input type="checkbox"/> PPE (see PPE Section) <input type="checkbox"/> Positioning
<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Secure objects <input type="checkbox"/> Guarding, covers <input type="checkbox"/> PPE (see PPE Section) Barricading
<input type="checkbox"/> Hazards from others working in	<input type="checkbox"/> Communication: Specify Method
<input type="checkbox"/> Hazards to other working in vicinity	<input type="checkbox"/> Communication: Specify Method

Hazard Identification	Describe Hazard Control (appropriate for site)
<input type="checkbox"/> Environmental Spill	<input type="checkbox"/> Containment <input type="checkbox"/> Waste Plan <input type="checkbox"/> Waste containers <input type="checkbox"/> Other
<input type="checkbox"/> Overhead lines/subsurface lines	<input type="checkbox"/> Spotter <input type="checkbox"/> Verify clearance with client <input type="checkbox"/> One-Call <input type="checkbox"/> Mark line
<input type="checkbox"/> Site-specific training required	<input type="checkbox"/> Specify training requirement
<input type="checkbox"/> Client-specific safety procedure/policy required?	<input type="checkbox"/> Specify client specific safety procedure or policy (attach a copy)
<input type="checkbox"/> Client permit required?	<input type="checkbox"/> Specify method for obtaining permit:
<input type="checkbox"/> Subcontractor on-site	<input type="checkbox"/> Obtain proof of required (including site-specific) training <input type="checkbox"/> Obtain proof of required (including site-specific) medical surveillance
<input type="checkbox"/> Other Hazards	<input type="checkbox"/> Description:

Exposure Monitoring

The following equipment will be used to monitor personnel exposure:

--

Emergency Plan required for every site job

Method of obtaining assistance	
Evacuation Route	
Prevailing wind direction	
Emergency call list	911 or Other emergency #: ERM Project Manager: ERM Project Director: Client Coordinator: Subcontractor Coordinator:
Emergency assembly area	

ATTACHMENT 2

Daily Safety Meeting Form

ATTACHMENT 3

Project Sign-in Sheet

ATTACHMENT 4

ERM Incident Reporting Form

Environmental Resources Management

ERM INCIDENT REPORT FORM

Client Name:

Date and Time of Incident:

Type of Incident:

Location of Incident:

Employee:

Employee Job Title:

Specific Job At Time of
Incident:

Level of Protection Worn at
Time of Exposure:

Summary of What Occurred:

Actions Taken To Correct
Situation (Engineering, PPE,
etc.):

Employee Signature:

Site Safety Officer:

ERM Project Manager:

Time and Date of Report:

Please return completed forms to the Health and Safety Program Manager

ATTACHMENT 5

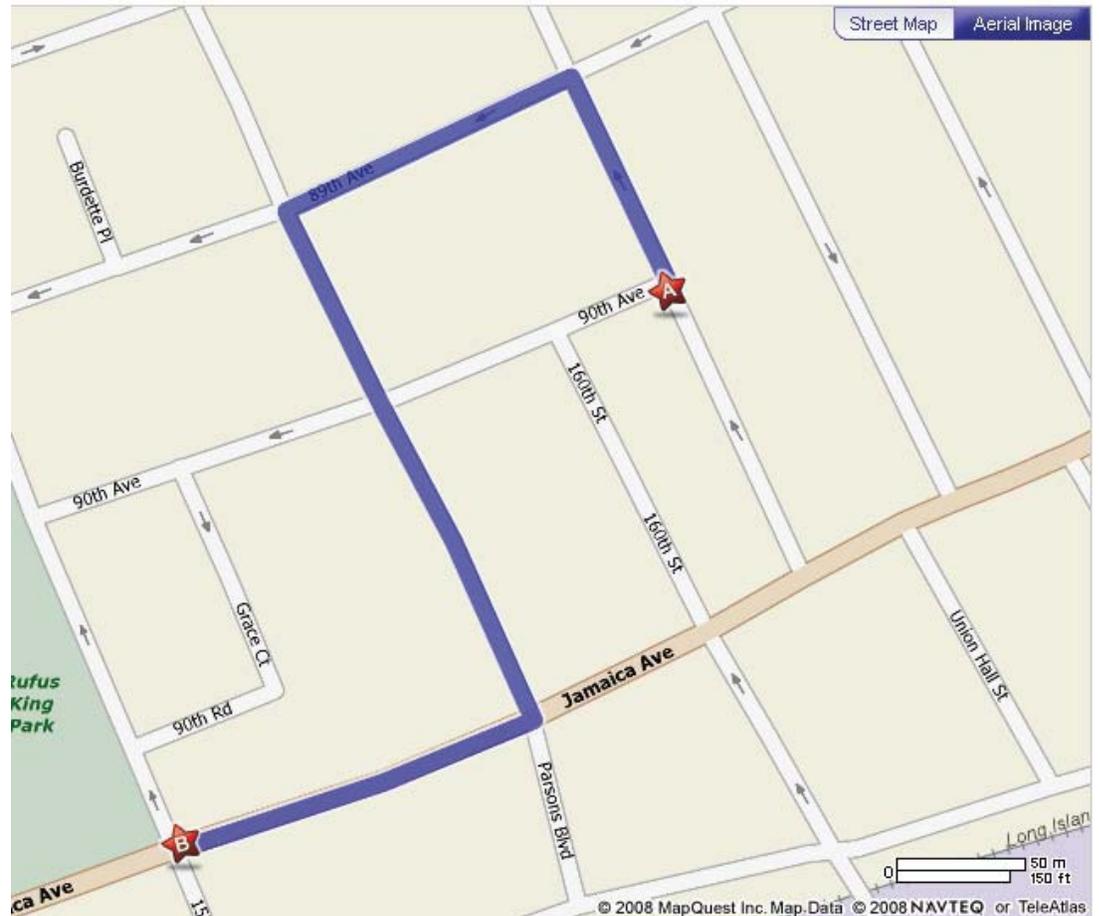
Hospital Route Map and Directions

Route To the Nearest Hospital: *(Write or attach map)*

▼ Directions from A to B:

- | | | |
|---|---|--------|
|  | 1: Start out going NORTHWEST on 161ST ST toward 90TH AVE. | 0.1 mi |
|  | 2: Turn LEFT onto 89TH AVE. | 0.1 mi |
|  | 3: Turn LEFT onto PARSONS BLVD. | 0.2 mi |
|  | 4: Turn RIGHT onto JAMAICA AVE. | 0.1 mi |
|  | 5: End at 15317 Jamaica Ave Jamaica, NY 11432 | |

Estimated Time: 1 minute Estimated Distance: 0.47 miles



APPENDIX E

SPECIFICATIONS FOR VAPOR BARRIER

VaporBlock[®] Plus[™]

UNDERSLAB VAPOR RETARDER / GAS BARRIER

6 & 20

PRODUCT DESCRIPTION

VaporBlock Plus[™] is a seven-layer co-extruded barrier made from state-of-the-art polyethylene and barrier resins to provide unmatched impact strength as well as superior resistance to gas and moisture transmission. VaporBlock Plus is a highly resilient underslab / vertical wall barrier designed to restrict naturally occurring gases such as radon and/or methane from migrating through the ground and concrete slab. VaporBlock Plus is more than 50 times less permeable than typical high-performance polyethylene vapor retarders against Methane, Radon and other harmful VOC's.

VaporBlock Plus is one of the most effective underslab barriers in the building industry today far exceeding ASTM E-1745 (Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs) Class A, B and C requirements. Available in 6 (Class C) and 20 (Class A) mil thicknesses designed to meet the most stringent requirements. VaporBlock Plus is produced within the strict guidelines of our ISO 9001:2000 Certified Management System.

PRODUCT USE

VaporBlock Plus resists gas and moisture migration into the building envelop when properly installed. It can be installed as a passive or active control system extending across the entire building including floors, walls and crawl spaces. When installed as a passive system it is recommended to also include a ventilated system with sump(s) that could be converted to an active control system with properly designed ventilation fans.

VaporBlock Plus works to protect your flooring and other moisture-sensitive furnishings in the building's interior from moisture and water vapor migration, greatly reducing condensation, mold and degradation.

SIZE & PACKAGING

VaporBlock Plus 6 is available in 12' x 200' rolls and VaporBlock Plus 20 in 10' x 150' rolls to maximize coverage. All rolls are folded on heavy-duty cores for ease in handling and installation. Other custom sizes with factory welded seams are available based on minimum volume requirements. Installation instructions and ASTM E-1745 classifications accompany each roll.



PRODUCT

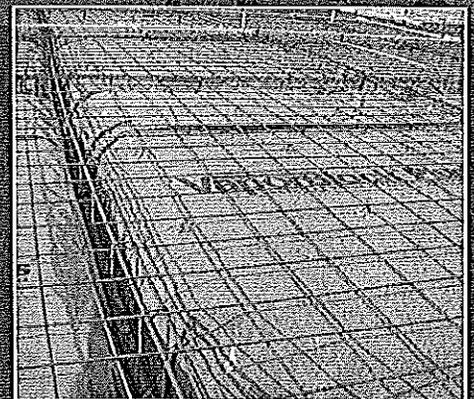
PART NUMBER

VaporBlock Plus 6 VBP 6

VaporBlock Plus 20 VBP 20

COMMON APPLICATIONS

- Radon Barrier
- Methane Barrier
- VOC's Barrier
- Under-Slab Vapor Retarder
- Foundation Wall Vapor Retarder



VaporBlock[®] Plus[™]

UNDERSLAB VAPOR RETARDER / GAS BARRIER

VaporBlock[®] Plus[™] 6 & 20

UNDERSLAB VAPOR RETARDER / GAS BARRIER

TECHNICAL DATA SHEET					
PROPERTIES	TEST METHOD	VAPORBLOCK PLUS 6		VAPORBLOCK PLUS 20	
		English	Metric	English	Metric
APPEARANCE		White/Black		White/Gold	
THICKNESS, NOMINAL		6 mil	0.15 mm	20 mil	0.51 mm
WEIGHT		28 lbs/MSF	139 g/m ²	102 lbs/MSF	498 g/m ²
CLASSIFICATION	ASTM E 1745	CLASS C		CLASS A, B & C	
TENSILE STRENGTH 1" (2.54 cm) Average MD & TD (New Material)	ASTM E 154 Section 9 (D882)	22 lbs	98 N	58 lbs	258 N
PUNCTURE RESISTANCE	ASTM D 1709 *Method B	800 g		2600 g	
MAXIMUM USE TEMPERATURE		180°F	82°C	180°F	82°C
PERMEANCE (New Material)	ASTM E 154 Section 7 ASTM E 96 Procedure B	0.090 U.S. Perms	0.060 Metric Perms	0.025 U.S. Perms	0.016 Metric Perms
RADON DIFFUSION COEFFICIENT		N/A		< 0.25 x 10 ⁻¹² m ² /s	
METHANE PERMEABILITY	ASTM D 1434	N/A		< 5 x 10 ⁻¹⁰ m ² /d•atm	

*Method B conditioned at 65% humidity for 14 days.

VaporBlock Plus Placement

Instructions on architectural or structural drawings should be reviewed & followed. Detailed installation instructions accompany each roll of VaporBlock Plus. ASTM E 1643 also provides general installation information for vapor retarders.

VaporBlock[®] Plus[™]
UNDERSLAB VAPOR RETARDER / GAS BARRIER

VaporBlock Plus[™] is a seven-layer co-extruded barrier made using high quality virgin-grade polyethylene and barrier resins to provide unmatched impact strength as well as superior resistance to gas and moisture transmission. VaporBlock Plus contains a bright white on one side and a metallic gold on the other side.

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. NO WARRANTIES ARE MADE AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.



ISO 9001:2000
CERTIFIED MANAGEMENT SYSTEM

VaporBlock® Plus™

UNDERSLAB VAPOR RETARDER / GAS BARRIER

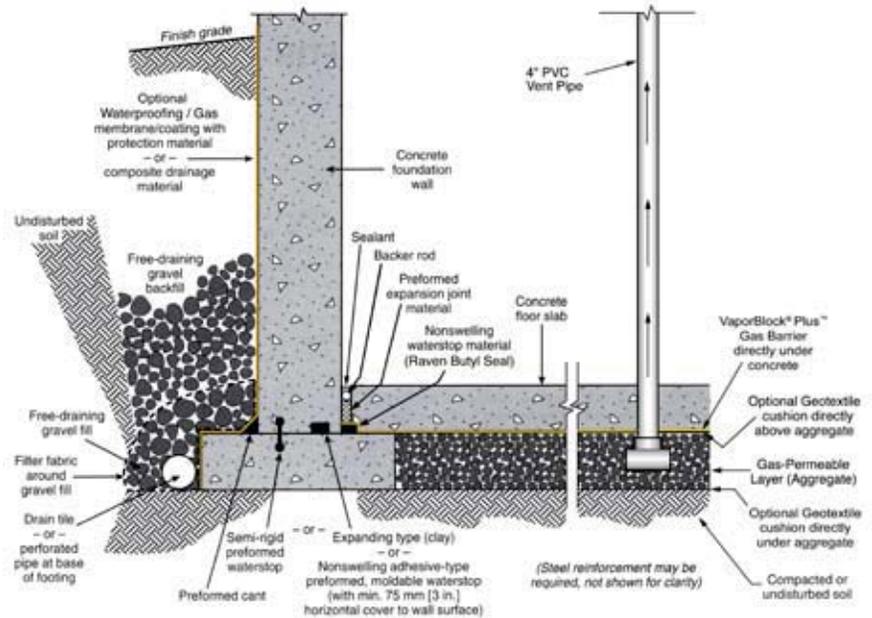
INSTALLATION GUIDELINES

Please Note: Read these instructions thoroughly before installation to ensure proper use of VaporBlock® Plus™. ASTM E 1465, ASTM E 2121 and, ASTM E 1643 also provide valuable information regarding the installation of vapor / gas barriers. When installing this product, contractors shall conform to all applicable local, state and federal regulations and laws pertaining to residential and commercial building construction.

- When VaporBlock Plus gas barrier is used as part of an active control system for radon or other gas, a ventilation system will be required.
- If designed as a passive system, it is recommended to install a ventilation system that could be converted to an active system if needed.

Materials List:

- VaporBlock® Plus™ Vapor / Gas Barrier
- VaporBond Plus 4" Foil Seaming Tape
- Butyl Seal 2-Sided Tape
- VaporBoot Plus Pipe Boots 12/Box (recommended)
- VaporBoot Tape (optional)



Elements of a moisture/gas-resistant floor system. General illustration only.
(Note: This example shows multiple options for waterstop placement.)

VAPORBLOCK® PLUS™ PLACEMENT

- 1.1. Level and tamp or roll granular base as specified. A base for a gas-reduction system may require a 4" to 6" gas permeable layer of clean coarse aggregate as specified by your architectural or structural drawings after installation of the recommended gas collection system. In this situation, a cushion layer consisting of a non-woven geotextile fabric placed directly under VaporBlock® Plus™ will help protect the barrier from damage due to possible sharp coarse aggregate.
- 1.2. Unroll VaporBlock Plus running the longest dimension parallel with the direction of the pour and pull open all folds to full width. (Fig. 1)
- 1.3. Lap VaporBlock Plus over the footings and seal with Raven Butyl Seal tape at the footing-wall connection. Prime concrete surfaces and assure they are dry and clean prior to applying Raven Butyl Seal Tape. Apply even and firm pressure with a rubber roller. Overlap joints a minimum of 6" and seal overlap with Raven VaporBond Tape. When used as a gas

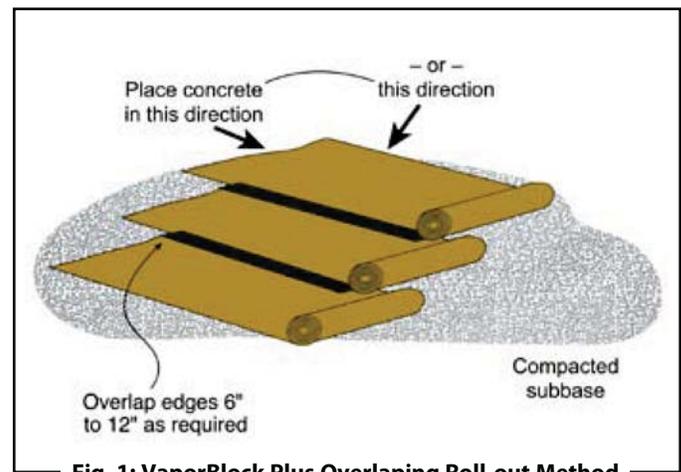


Fig. 1: VaporBlock Plus Overlapping Roll-out Method

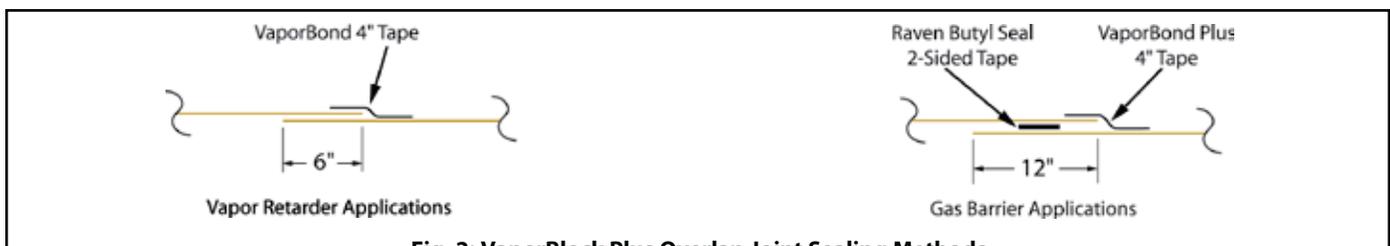


Fig. 2: VaporBlock Plus Overlap Joint Sealing Methods

Top original diagram and figure #1 were reprinted with permission by the Portland Cement Association. Reference: Kanare, Howard M., Concrete Floors and Moisture, EB119, Portland Cement Association, Skokie, Illinois, and National Ready Mixed Concrete Association, Silver Spring, Maryland, USA, 2008, 176 pages.