



**TR4: Technical Report
Soil Investigation**
Must be typewritten.

☒ Orient and affix BIS
job number label here ☒

1 Location Information *Required for all applications.*

House No(s) **65** Street Name **Milton Avenue**

Borough **Staten Island** Block **4043** Lot **29** BIN **5055957** CB No. **502**

Work on Floor(s) **1** Apt/Condo No(s)

2 Applicant Information *Required for all applications.*

Last Name **Resciniti** First Name **Philip** Middle Initial **L**

Business Name **Haks** Business Telephone **212-747-1997**

Business Address **40 Wall Street** Business Fax

City **New York** State **NY** Zip **10005** Mobile Telephone

E-Mail **presciniti@haks.net** License Number **035930**

☐ P.E. ☒ R.A.

3 Required Borings / Test Pits *Required for all applications.*

Number of Test Pits as Required as per NYC Construction Codes: **2**

4 Plot Diagram *Required for all applications.*

Draw in ink to indicate scale. Show building outline or extension and location of all borings and/or test pits by dimensions. Borings and/or test pits shall be distributed according to the NYC Construction Codes.

- SEE ATTACHED REPORTS

5 Test Report *Required for all applications.*

Date	Boring/ Test Pit #	Feet Below Curb	Soil Description	Class Number	Remarks
8/7/14	B-1	0-2	Brown Sandy Silt & Gravel		-SEE ATTACHED REPORTS
8/7/14	B-1	2-4	Red slightly silty Sand & Gravel		-SEE ATTACHED REPORTS
8/7/14	B-1	4-6	Red slightly silty Sand & Gravel		-SEE ATTACHED REPORTS
8/7/14	B-1	6-8	Red slightly silty Sand & Gravel		-SEE ATTACHED REPORTS
8/7/14	B-1	8-10	Red slightly silty Sand & Gravel		-SEE ATTACHED REPORTS
8/7/14	B-1	15-17	Red slightly silty Sand & Gravel		-SEE ATTACHED REPORTS
8/7/14	B-1	20-22	Red Sand		-SEE ATTACHED REPORTS
8/7/14	B-1	25-27	Red Sand & Gravel		-SEE ATTACHED REPORTS
8/7/14	B-2	0-2	Brown Sandy Silt		-SEE ATTACHED REPORTS
8/7/14	B-2	2-4	Brown Sandy Silt		-SEE ATTACHED REPORTS
8/7/14	B-2	4-6	Red slightly silty Sand & Gravel		-SEE ATTACHED REPORTS
8/7/14	B-2	6-8	Red slightly silty Sand & Gravel		-SEE ATTACHED REPORTS
8/7/14	B-2	8-10	Red slightly silty Sand & Gravel		-SEE ATTACHED REPORTS
8/7/14	B-2	15-17	N/A		-SEE ATTACHED REPORTS
8/7/14	B-2	20-22	Red Sand & Gravel		-SEE ATTACHED REPORTS
8/7/14	B-2	25-27	Red Sand & Gravel		-SEE ATTACHED REPORTS

6 Statements and Signatures *Required for all applications.*

I hereby state that the above information is correct and complete to the best of my knowledge and that the above tests were performed in accordance with all Administrative Code Provisions and Departmental Rules, Regulations and Directives.

Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both.

It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by imprisonment or fine or both.

Name (please print)

Philip L Resciniti

2/17/2015

Signature

Date



P.E. / R.A. Seal (apply seal, then sign and date over seal)

Approvals - Internal Use Only

Examined and Recommended for Approval		Approved	
Examiner Name		Borough Commissioner Signature	Date
Signature	Date		

Corporate Headquarters
40 Wall Street, 11th Floor
New York N.Y. 10005
T: 212-747-1997 F: 212-320-0369
www.haks.net

SPECIAL INSPECTION DAILY TIMESHEET

Client: C D M		HAKS Job/Phase #: 2013-11-0269 A01 Phase 5 Task #3		
Date of Inspection: 08/07/14		Project Name: B I B		
Project Address: 65 Milton Ave. Staten Island		Project Description: Soils - Investigations - Borings		
Contractor: Universal - Testing - Inspection		DOB#:		
Inspector Name: Amin A. Greiss				
Inspector Qualification: ☒ Primary ☐ Supp. Alt. I ☐ Supp. Alt. II				
Inspection Type: Soils - Investigations - Borings				
Time Started 8:00	Start Lunch/Dinner /	End Lunch/Dinner /	Time Completed 5:00	Hours Worked 9
Equipment Used: Track augering machine. HAKS Equip. Log No: _____ Model No: _____ Serial No: _____ Last Calibration Date: _____		Equipment Used: _____ HAKS Equip. Log No: _____ Model No: _____ Serial No: _____ Last Calibration Date: _____		
Comments: The contractor supposed to do borings for 44 Maple Ave, S.I. but he did not perform this job, the it was too late, the contractor postponed it. See attached report.				
NCR Issued: ☐ YES ☒ NO NCR Description: _____				
Contacted HAKS Lab to Pick up Test Samples: ☐ YES ☐ NO ☒ N/A				

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BC 1704.7.4

SOILS – INVESTIGATIONS (BORINGS/TEST PITS)

NYC DOB #:		Date of Inspection:	08/07/14
Client:	CDM	Report By:	Amin A. Gheiss
Project Name:	BIB	HAKS JOB#:	2013-11-0269A01 Phase 5 Task 3
Project Address:	65 Milton Ave. Staten Island	HAKS PM:	Ahmed Saber
Weather:	Mostly sunny	Ambient Temp:	73°F – 83°F
Applicable Codes:			

☒ Continuous Inspection

☐ Periodic Inspection

Soil Investigations (Borings/Test Pits) must be accompanied by a TR-4

Boring No.	Feet Below Curb	* Number of Blows	Recovery	Visual Soil Description
1	0-2'	2-1-2-1	15"	Brown sandy silt & Gravel
1	2'-4'	2-4-5-6	12"	Red slightly silty sand & Gravel
1	4'-6'	9-12-11-11	12"	~ ~ ~ ~ ~
1	6'-8'	12-11-9-7	17"	~ ~ ~ ~ ~
1	8'-10'	7-9-7-9	16"	~ ~ ~ ~ ~
1	10'-12'	8-12-11-10	16"	~ ~ ~ ~ ~
1	20'-22'	6-8-8-7	13"	Red sand
1	25'-27'	5-4-5-6	14"	Red sand & Gravel

* Every 6".



Ground water Table for Boring #1 is (-7' 6") @ 11:15 A.M

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Boring No.	Feet Below Curb	* Number of Blows	Recovery	Visual Soil Description
2	0-2	3-3-3-4	8'	Brown sandy silt
2	2'-4'	4-6-8-8	9"	~ ~ ~
2	4'-6'	8-8-9-8	16"	Red sandy sand with traces of silt & Gravel
2	6'-8'	8-10-12-9	16"	~ ~ ~ ~ ~
2	8'-10'	6-7-7-7	15"	~ ~ ~ ~ ~
2	15'-17'	8-9-10-10	0	N/A
2	20'-22'	6-10-11-9	15"	Red sand & Gravel
2	25'-27'	4-6-7-6	14"	Red sand & Gravel

* Every 6".



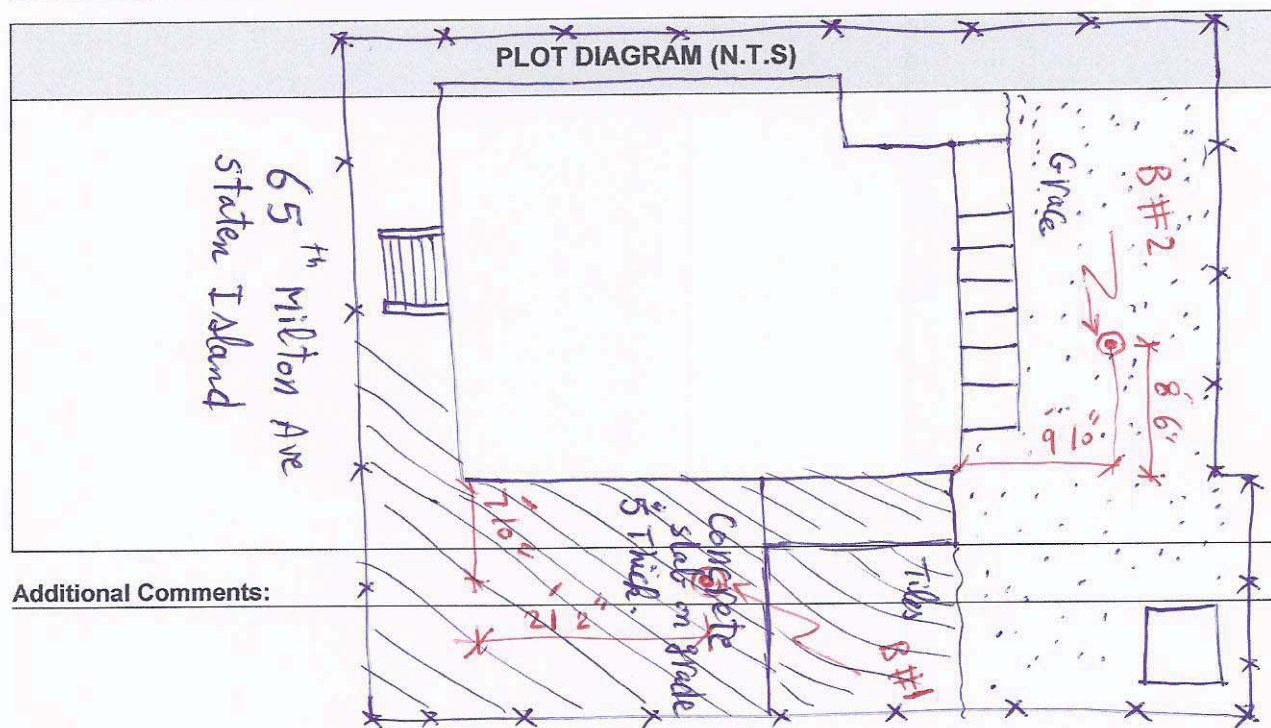
Ground water Table for Boring # is (-8' 00") @ 3:00 P.M. Page 1 of 2
- The machine was broken down at 1:00 P.M., the contractor Fixed it, he started the 2nd boring at 2:00 P.M.

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SOILS – INVESTIGATIONS (BORINGS/TEST PITS)

NYC DOB #:	Date of Inspection: 08/07/14
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Additional Comments:

ATLEAST (1) OF THE FOLLOWING MUST BE CHECKED:

- Conformance:** ☒ The inspected area(s) are in conformance with the approved project drawings and specifications.
- Work In Progress:** ☐ The inspected area(s) were not completed at the time of inspection;
*Re-Inspection Is Required
- Non-Conformance:** ☐ The inspected area(s) are not in conformance with the approved project drawings and specifications.
*After Correction of the work is performed, a Re-Inspection Is Required

*To the best of my knowledge, work inspected was in accordance with the building department approved plans, specifications and applicable workmanship provisions of the NYC Building Code except as noted above.

Amin A. Greiss
Inspector Print Name

Amin Ayad Greiss
Inspector Signature

08/07/14
Inspection Date

Project: Institute for Building Technology & Safety (IBTS)
Project Location: 65 Milton Avenue Staten Island, NY
Project Number: APP-002983

Key to Log of Boring

Sheet 1 of 1

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
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1 2 3 4 5 6 7 8 9 10

COLUMN DESCRIPTIONS

- 1 **Elevation, feet:** Elevation (MSL, feet)
- 2 **Depth, feet:** Depth in feet below the ground surface.
- 3 **Sample Type:** Type of soil sample collected at the depth interval shown.
- 4 **Sample Number:** Sample identification number.
- 5 **Sampling Resistance, blows/foot:** Number of blows to advance driven sampler foot (or distance shown) beyond seating interval using the hammer identified on the boring log.
- 6 **Relative Consistency:** Relative consistency of the subsurface material.
- 7 **USCS Symbol:** USCS symbol of the subsurface material.
- 8 **Graphic Log:** Graphic depiction of the subsurface material encountered.
- 9 **MATERIAL DESCRIPTION:** Description of material encountered. May include consistency, moisture, color, and other descriptive text.
- 10 **REMARKS AND OTHER TESTS:** Comments and observations regarding drilling or sampling made by driller or field personnel.

FIELD AND LABORATORY TEST ABBREVIATIONS

CHEM: Chemical tests to assess corrosivity
COMP: Compaction test
CONS: One-dimensional consolidation test
LL: Liquid Limit, percent
PI: Plasticity Index, percent

SA: Sieve analysis (percent passing No. 200 Sieve)
UC: Unconfined compressive strength test, Qu, in ksf
WA: Wash sieve (percent passing No. 200 Sieve)

TYPICAL MATERIAL GRAPHIC SYMBOLS

Well graded GRAVEL (GW)	Well graded SAND with Clay (SW-SC)	SILTY CLAY (CL-ML)
Well graded GRAVEL with Silt (GW-GM)	Poorly graded SAND with Silt (SP-SM)	Lean CLAY/PEAT (CL-OL)
Poorly graded GRAVEL with Silt (GP-GM)	Poorly graded SAND with Clay (SP-SC)	Fat CLAY/SILT (CH-MH)
Silty GRAVEL (GM)	Silty SAND (SM)	Silty SAND to Sandy SILT (SM-ML)
Clayey GRAVEL (GC)	Clayey SAND (SC)	Silty SAND to Sandy SILT (SM-MH)
Well graded SAND (SW)	SILT, SILT w/SAND, SANDY SILT (ML)	Clayey SAND to Sandy CLAY (SC-CL)
Poorly graded SAND (SP)	SILT, SILT w/SAND, SANDY SILT (MH)	Clayey SAND to Sandy CLAY (SC-CH)
Well graded SAND with Silt (SW-SM)	Fat CLAY, CLAY w/SAND, SANDY CLAY (CH)	Silty to Clayey SAND (SM-SC)
	SILT, SILT with SAND, SANDY SILT (ML-MH)	
	Lean-Fat CLAY, CLAY w/SAND, SANDY CLAY (CL-CH)	

TYPICAL SAMPLER GRAPHIC SYMBOLS

2-inch-OD unlined split spoon (SPT)	Shelby Tube (Thin-walled, fixed head)	Pitcher Sample
2.5-inch-OD Modified California w/ brass liners	Grab Sample	Other sampler now modified
3-inch-OD California w/ brass rings	Bulk Sample	

OTHER GRAPHIC SYMBOLS

- Water level (at time of drilling, ATD)
- Water level (after waiting a given time)
- Minor change in material properties within a stratum
- Inferred or gradational contact between strata
- Queried contact between strata

GENERAL NOTES

1. Soil classifications are based on the Unified Soil Classification System. Descriptions and stratum lines are interpretive, and actual lithologic changes may be gradual. Field descriptions may have been modified to reflect results of lab tests.
2. Descriptions on these logs apply only at the specific boring locations and at the time the borings were advanced. They are not warranted to be representative of subsurface conditions at other locations or times.

Project: Institute for Building Technology & Safety (IBTS)
Project Location: 65 Milton Avenue Staten Island, NY
Project Number: APP-002983

Log of Boring B-1

Sheet 1 of 1

Date(s) Drilled August 7, 2014	Logged By Universal Testing Morley & Glenn	Checked By Kathleen M Hand P.E.
Drilling Method ASTM D 1586 Standard Test / Penetration Test /Split Barrel soil sample	Drill Bit Size/Type 3-1/4 inch ASTM D1586	Total Depth of Borehole 27 feet bgs
Drill Rig Type ACKER 30	Drilling Contractor Universal Drilling	Approximate Surface Elevation 0 feet 0
Groundwater Level and Date Measured 7.5 feet ATD	Sampling Method(s) None	Hammer Data 140 lb, 30 in drop, rope & cathead
Borehole Backfill Cuttings	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
0					Concrete	Other SP-SM		Concrete	
		S-1	2 1 2 1					Brown silty Sand & Gravel (NYC -BC Class 6) Recovery 15 "	
		S-2	2 4 5 6						
5		S-3	9 12 11 11			SP-SM		Red Slightly Silty Sand & Gravel (NYC - BC -Class 6) Recovery 12 "	
		S-4	12 11 9 7			SP-SM		Red slightly silty Sand & Gravel (NYC-BC -class 3b) Recovery 12"	(ATD)
		S-5	7 9 7 9			SP-SM		Red slightly silty sand & gravel (NYC-BC Class 3b) Recovery 17 "	
10						SP-SM		Red slightly silty sand & gravel (NYC-BC Class 3b) Recovery 16 "	
		S-6	8 12 11 10						
15		S-7	8 12 11 10			SP-SM		Red slightly silty sand & gravel(NYC-BC- Class 3b) Recovery 16 "	
						SP-SM		Red slightly silty sand & gravel (NYCBC - Class 3b) Recovery 16 "	
20		S-8	6 8 8 7			SP		Red Sand (NYCBC-class 3 b) Recovery 13"	
						SP		Red Sand (NYCBC Class 3b) Recovery 13 "	
25		S-10	5 4 5 6			SP		Red Sand & Gravel (NYCBC class 3b) Recovery 14"	
								Bottom of Boring at 27 feet bgs	
30									

Figure

Project: Institute for Building Technology & Safety (IBTS)
Project Location: 65 Milton Avenue Staten Island, NY
Project Number: APP # 002983
Date Drilled: August 7, 2014

Log of Boring B-2
Sheet 1 of 1
N Value Matrix

BORING # 2 (N Value Matrix) – 65 Milton Avenue

Depth of Drilling (or) Sampling	Blows Per (6")	'N' Value	Bearing Capacity
0 – 2 FEET BLG	3 3 3 4	6	0.0
2 - 4 FEET BLG	4 6 8 8	14	0.0
4 -6 FEET BLG	8 8 9 8	17	0.0
6 -8 FEET BLG	8 10 12 9	22	0.0
8 -15 FEET BLG	6 7 7 7	14	0.0
15 -20 FEET BLG	8 9 10 10	19	0.0
20-25 FEET BLG	6 10 11 9	21	0.0
25-27 FEET BLG	4 6 7 6	13	0.0

GWT 7'

Project: Institute for Building Technology & Safety (IBTS)
Project Location: 65 Milton Avenue Staten Island, NY
Project Number: APP # 002983

Log of Boring B-2

Sheet 1 of 1

Date(s) Drilled	August 7, 2014	Logged By	Universal Testing Morley & Glenn	Checked By	Kathleen M Hand P.E.
Drilling Method	ASTM D 1586 Standard Test / Penetration Test / Split Barrel soil sample	Drill Bit Size/Type	3-1/4 inch ASTM D1586	Total Depth of Borehole	27 feet bgs
Drill Rig Type	ACKER 30	Drilling Contractor	Universal Drilling	Approximate Surface Elevation	0 feet 0
Groundwater Level and Date Measured	8 feet ATD	Sampling Method(s)	None	Hammer Data	140 lb, 30 in drop, rope & cathead
Borehole Backfill	Cuttings	Location			

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
0					Miscellaneous	Other		Brown Silty Sand (NYCBC class 3b) Recovery 8"	
		S-1	3 3 3 4						
		S-2	4 6 8 8			SP		Brown Silty Sand (NYC - BC -Class 3b) Recovery 9 "	
		S-3	8 8 9 8			SP		Red slightly silty Sand & Gravel (NYC-BC -class 3b) Recovery 16"	
5		S-4	8 10 12 9			SP		Red slightly silty sand & gravel (NYC-BC Class 3b) Recovery 16 "	
		S-5	6 7 7 7			SP		Red slightly silty sand & gravel (NYC-BC Class 3b) Recovery 15 "	(ATD)
10									
		S-6	8 9 10 10					No Recovery	
15									
		S-7	6 10 11 9			SP		Red sand & gravel (NYCBC - Class 3b) Recovery 15 "	
20									
		S-8	4 6 7 6			SP		Red Sand & Gravel (NYCBC-class 3 b) Recovery 14"	
25									
								Bottom of Boring at 27 feet bgs	
30									

Figure

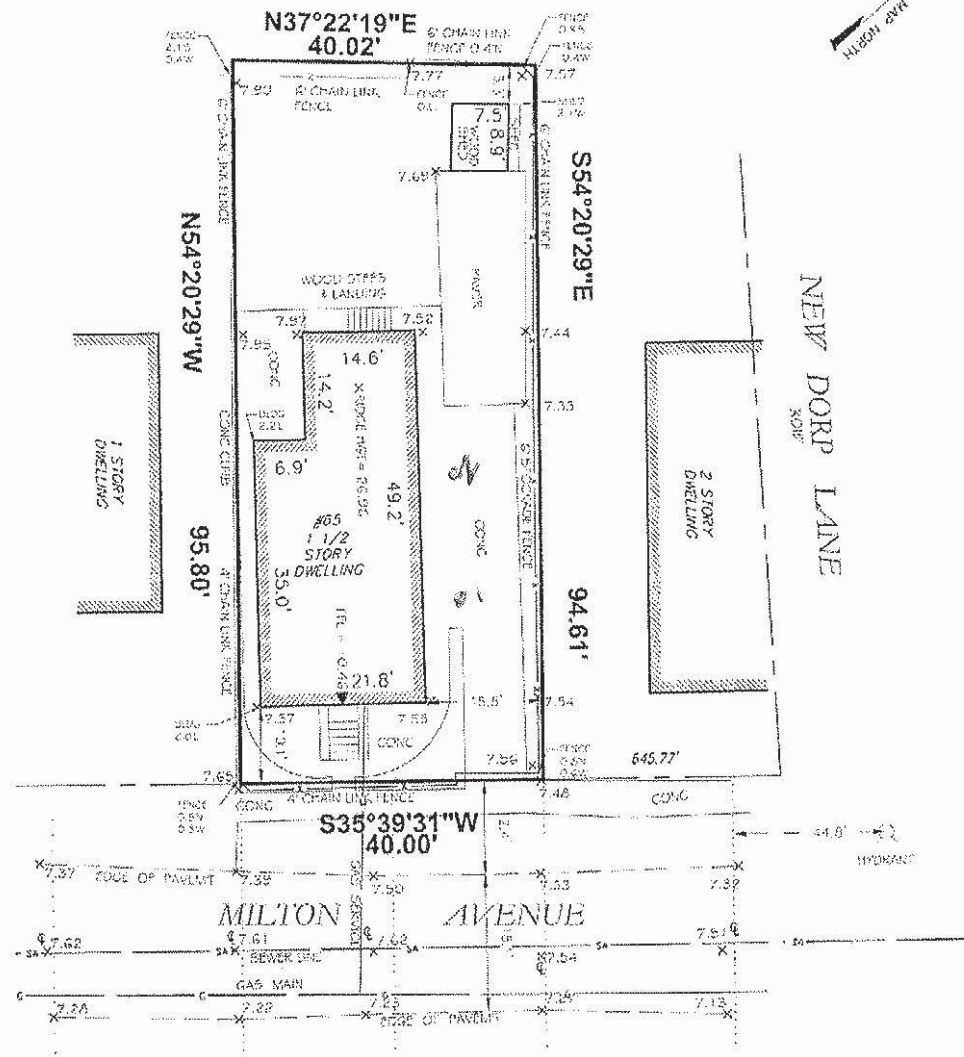
Project: Institute for Building Technology & Safety (IBTS)
Project Location: 65 Milton Avenue Staten Island, NY
Project Number: APP # 002983
Date Drilled: August 7, 2014

Log of Boring B-1
Sheet 1 of 1
N Value Matrix

BORING # 1 (N Value Matrix) – 65 Milton Avenue

Depth of Drilling (or) Sampling	Blows Per (6")	'N' Value	Bearing Capacity
0 – 2 FEET BLG	2 1 2 1	3	0.0
2 - 4 FEET BLG	2 4 5 6	9	0.0
4 -6 FEET BLG	9 12 11 11	23	0.0
6 -8 FEET BLG	12 11 9 7	20	0.0
8 -10 FEET BLG Tripod	7 9 7 9	16	0.0
10 -15 FEET BLG	8 12 11 10	23	0.0
15 -20 FEET BLG	8 12 11 10	23	0.0
20 -25 FEET BLG	6 8 8 7	16	0.0
25-27 FEET BLG	5 4 5 6	9	0.0

GWT 7.5'



TAX LOT 29
AREA = 3808.43 SQ. FT.
0.087 ACRES

ZONED "A1" BASE FLOOD ELEVATION DETERMINED = 12.0 NAVD 83
CURRENT DETECTIVE BASE FLOOD ELEVATION = 9.92 NAVD 83
SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

LEGEND:

- SANITARY MANHOLE
- WATER MAIN MANHOLE
- WATER VALVE
- FIRE HYDRANT
- CATCH BASIN
- E.M. VALUE
- INVERT VALUE
- (10.0) LG

SURVEY NOTES:

1. UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION 100 OF THE NEW YORK STATE EASEMENT LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE SURVEYOR'S NAME OR COMMENCING DATE SHALL NOT BE CONSIDERED TO BE A PART OF THIS COPY. CERTIFICATION OF THIS SURVEY SHALL BE VALID ONLY TO THE PERSONS FOR WHOM THE SURVEY IS PREPARED, AND ON NO OTHER BASIS.
2. THIS SURVEY IS SUBJECT TO ANY EASEMENT OF RECORD AND OTHER EASEMENTS IN FORCE IN THE PROPERTY OF THE SURVEYED LAND.
3. ALL DIMENSIONS SHOWN HEREON ARE FOR A SPECIFIC PURPOSE AND SHOULD NOT BE USED AS A BASIS FOR CONSTRUCTION OF BUILDINGS OR OTHER STRUCTURES.
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5. THE SURVEYOR'S NAME AND ADDRESS ARE SHOWN ON THE SURVEY MAP.
6. ELEVATIONS SHOWN REFER TO NAVD 83 DATUM.
7. THE SURVEYOR'S NAME AND ADDRESS ARE SHOWN ON THE SURVEY MAP.
8. THE SURVEYOR'S NAME AND ADDRESS ARE SHOWN ON THE SURVEY MAP.
9. THE SURVEYOR'S NAME AND ADDRESS ARE SHOWN ON THE SURVEY MAP.
10. THE SURVEYOR'S NAME AND ADDRESS ARE SHOWN ON THE SURVEY MAP.

T. EASON LAND SURVEYOR 5901 NICHOLSON HIGHWAY, SUITE 216, APT. 216 NEW YORK, NY 11756 (845) 474-3200 / Fax (845) 474-3053 and T. EASON, 900 PHOENIX LANE, NEW YORK, NY 11756	
ARCHITECTURAL SURVEY	
SURVEY FOR:	SUSE EPPEL
MAP OF:	DESCRIBED PROPERTY
LOCATION:	65 MILTON AVE., STATEN ISLAND, NY BOROUGH OF STATEN ISLAND & COUNTY OF RICHMOND
CERTIFIED TO:	SUSE EPPEL
NEW YORK CITY DEPARTMENT OF BUILDINGS SLV-LS2-APP-002983	

RICHMOND COUNTY BLK. 4043 LOT 29	
DATE: 5/23/14	SCALE: 1"=16'
PROJECT NUMBER: TEAM-201	
T. EASON, LAND SURVEYOR, L.S. L.S. # 050452	