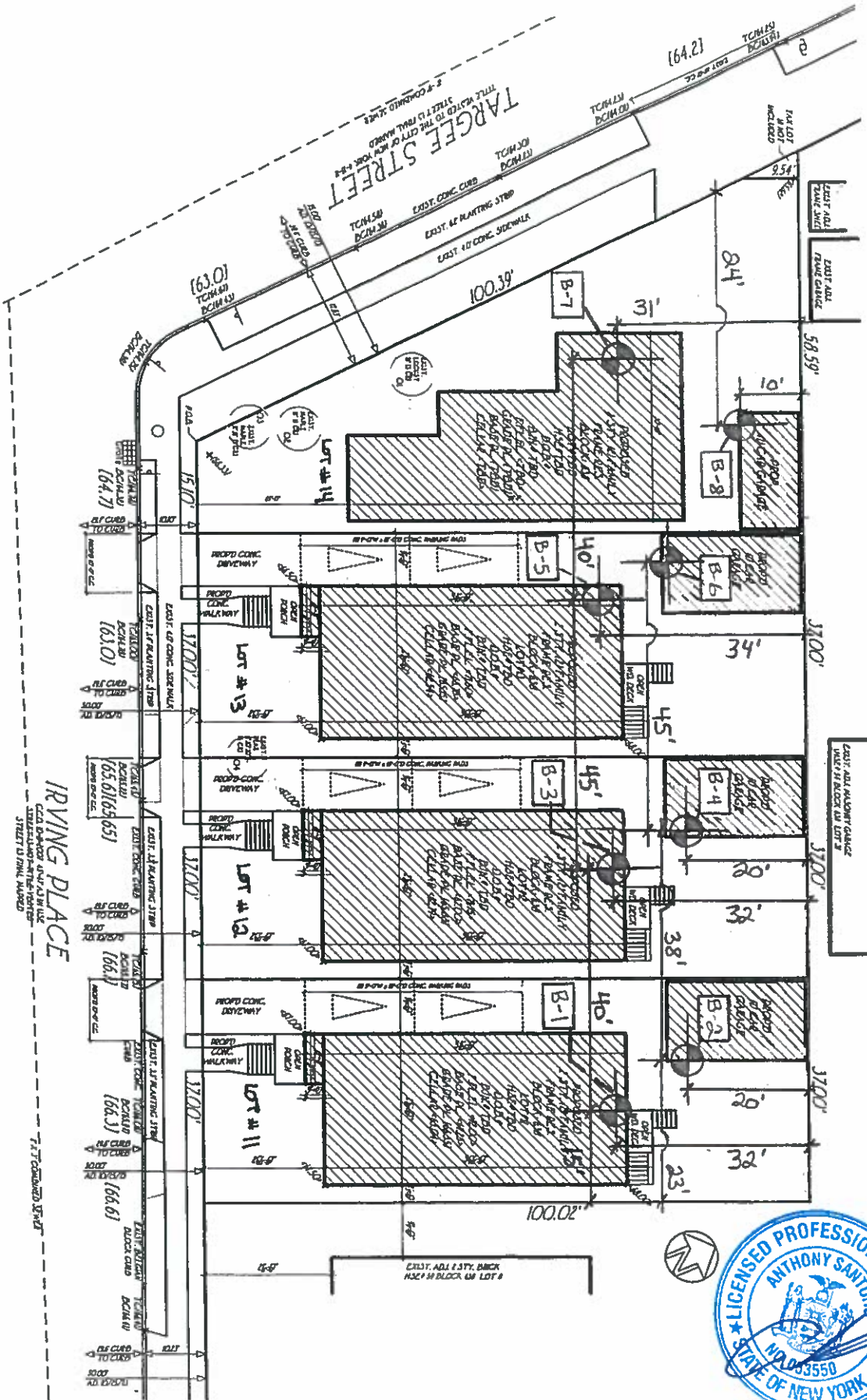


Block: 638
Lots: 11, 12, 13 & 14
Staten Island, NY

Plan Showing Location of Borings for Building
Scale: 1" = 25'



A Tech Engineering NYC, PLLC
4442 Arthur Kill Road, Staten Island, NY 10309
718-348-2785

A Tech Engineering NYC, P.L.L.C. 4442 Arthur Kill Rd. S.I.N.Y., 10309 (718) 948-2785	Client: Donato Inc. Project: Block: 638 Lot: 11 Address: 55 Irving Place (House and Garage), Staten Island, NY	BORING LOG Boring No. B-1 (Building) Page: 1 of 1
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Drilling Start Date: 10/21/20 Drilling End Date: 10/21/20 Drilling Company: Drill Masters Inc. Drilling Method: Hollow Stem Auger Drilling Equipment: Acker Soil XLS Driller: Logged By: Anthony Santoro, P.E.	Boring Depth (ft): 25.0 Boring Diameter (in): Sampling Method(s): Split Spoon DTW During Drilling (ft): N/A DTW After Drilling (ft): N/A Ground Surface Elev. (ft): Location (Lat, Long):
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DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	REMARKS	DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)			
0								(0') ORGANIC SOIL (OL)		0
								(1') Clayey SAND (SC); Clay, Some Silty Sand	(1.0') SC 4b	
5						7	1.00	(5') Clayey SAND (SC); Silty Sand and Gravel, Trace of Clay	(5.0') SC 3b	5
10						8	0.41			10
						12		(11') Lean CLAY (CL); medium plasticity, Clay	(11.0') CL 4b	
15						9	1.00			15
						11		(18') Clayey SAND (SC); Clay and Silty Sand	(18.0') SC 4a	
20						14	0.66			20
						15	1.50			
25						20		(25') Boring terminated		25
						19				
30										30
35										35
40										40



NOTES: 1. Elevations refer to North American Vertical Datum (NAVD) of 1988. 2. Groundwater can appear/fluctuate due to rain, tides, season, and cresting groundwater on dates other than tested and/or signed herewith. 3. For site specific bearing capacity refer to SPT blow counts.

A Tech Engineering NYC, P.L.L.C.
4442 Arthur Kill Rd. S.I.N.Y.,
10309 (718) 948-2785

Client: Donato Inc.
Project: Block: 638 Lot: 11
Address: 55 Irving Place (House and Garage),
Staten Island, NY

BORING LOG

Boring No. B-2 (Building)
Page: 1 of 1

Drilling Start Date: 10/21/20
Drilling End Date: 10/21/20
Drilling Company: Drill Masters Inc.
Drilling Method: Hollow Stem Auger
Drilling Equipment: Acker Soil XLS
Driller:
Logged By: Anthony Santoro, P.E.

Boring Depth (ft): 25.0
Boring Diameter (in):
Sampling Method(s): Split Spoon
DTW During Drilling (ft): N/A
DTW After Drilling (ft): N/A
Ground Surface Elev. (ft):
Location (Lat, Long):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT					SOIL/ROCK VISUAL DESCRIPTION	REMARKS	DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)	N Value ROD%			
0									(0') ORGANIC SOIL (OL)		0
									(1') Clayey SAND (SC); Clay, Some Silty Sand	(1.0') SC 4b	
5						1.50	14		(5') Clayey SAND (SC); Silty Sand and Gravel, Trace of Clay	(5.0') SC 3b	5
10						0.50	20		(10') Lean CLAY (CL); medium plasticity, Clay	(10.0') CL 4a	10
15						1.50	24				15
20						0.75	30		(18') Clayey SAND (SC); Clay and Silty Sand	(18.0') SC 4a	20
25						1.00	37				25
									(25') Boring terminated		
30											30
35											35
40											40



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A Tech Engineering NYC, P.L.L.C. 4442 Arthur Kill Rd. S.I.N.Y. 10309 (718) 948-2785		Client: Donato Inc. Project: Block: 638 Lot: 12 Address: 51 Irving Place (House and Garage), Staten Island, NY		BORING LOG Boring No. B-3 (Building) Page: 1 of 1	
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Drilling Start Date: 10/21/20 Drilling End Date: 10/21/20 Drilling Company: Drill Masters Inc. Drilling Method: Hollow Stem Auger Drilling Equipment: Acker Soil XLS Driller: Logged By: Anthony Santoro, P.E.	Boring Depth (ft): 25.0 Boring Diameter (in): Sampling Method(s): Split Spoon DTW During Drilling (ft): N/A DTW After Drilling (ft): N/A Ground Surface Elev. (ft): Location (Lat, Long):
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DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT					SOIL/ROCK VISUAL DESCRIPTION	REMARKS	DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)	N Value ROD%			
0									(0') ORGANIC SOIL (OL)		0
									(1') Clayey SAND (SC); Silty Sand, Little Clay	(1.0') SC 3b	
5									(4') Clayey SAND (SC); Silty Sand and Gravel, Trace of Clay	(4.0') SC 3b	5
10									(12') Lean CLAY (CL); medium plasticity, Clay	(12.0') CL 4b	10
15									(19') Clayey SAND (SC); Clay and Silty Sand	(19.0') SC 4a	15
20									(25') Boring terminated		20
25											25
30											30
35											35
40											40



NOTES: 1. Elevations refer to North American Vertical Datum (NAVD) of 1988. 2. Groundwater can appear/fluctuate due to rain, tides, season, and cresting groundwater on dates other than tested and/or signed herewith. 3. For site specific bearing capacity refer to SPT blow counts.

A Tech Engineering NYC, P.L.L.C. 4442 Arthur Kill Rd. S.I.N.Y., 10309 (718) 948-2785	Client: Donato Inc. Project: Block: 638 Lot: 12 Address: 51 Irving Place (House and Garage), Staten Island, NY	BORING LOG Boring No. B-4 (Building) Page: 1 of 1
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Drilling Start Date: 10/22/20 Drilling End Date: 10/22/20 Drilling Company: Drill Masters Inc. Drilling Method: Hollow Stem Auger Drilling Equipment: Acker Soil XLS Driller: Logged By: Anthony Santoro, P.E.	Boring Depth (ft): 25.0 Boring Diameter (in): Sampling Method(s): Split Spoon DTW During Drilling (ft): N/A DTW After Drilling (ft): N/A Ground Surface Elev. (ft): Location (Lat, Long):
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DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	REMARKS	DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)			
0								(0') ORGANIC SOIL (OL)		0
								(1') Clayey SAND (SC); Silty Sand, Little Clay	(1.0') SC 3b	
5						0.75	14	(5') Clayey SAND (SC); Silty Sand and Gravel, Trace of Clay	(5.0') SC 3b	5
10						0.50	19			10
						9	10	(11') Lean CLAY (CL); medium plasticity, Clay	(11.0') CL 4b	
15						1.00	27			15
						13	14			
						15	31	(18') Clayey SAND (SC); Clay and Silty Sand	(18.0') SC 4a	20
20						1.50				
						16	36			25
25						0.00		(25') Boring terminated		25
						17				30
						19				35
40										40



NOTES: 1. Elevations refer to North American Vertical Datum (NAVD) of 1988, 2. Groundwater can appear/fluctuate due to rain, tides, season, and cresting groundwater on dates other than tested and/or signed herewith, 3. For site specific bearing capacity refer to SPT blow counts.

A Tech Engineering NYC, P.L.L.C. 4442 Arthur Kill Rd. S.I.N.Y., 10309 (718) 948-2785								Client: Donato Inc.		BORING LOG	
								Project: Block: 638 Lot: 13		Boring No. B-5 (Building)	
								Address: 47 Irving Place (House and Garage), Staten Island, NY		Page: 1 of 1	
Drilling Start Date: 10/22/20								Boring Depth (ft): 25.0			
Drilling End Date: 10/22/20								Boring Diameter (in):			
Drilling Company: Drill Masters Inc.								Sampling Method(s): Split Spoon			
Drilling Method: Hollow Stem Auger								OTW During Drilling (ft): N/A			
Drilling Equipment: Acker Soil XLS								DTW After Drilling (ft): N/A			
Driller:								Ground Surface Elev. (ft):			
Logged By: Anthony Santoro, P.E.								Location (Lat, Long):			

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	REMARKS	DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)			
0								(0') Fill		0
5						5	0.83 12	(1') Clayey SAND (SC); Clay, Some Silty Sand	(1.0') SC 4b	5
10						11	0.50 24	(6') Clayey SAND (SC); Silty Sand and Gravel, Trace of Clay	(6.0') SC 3b	10
15						12	1.50 24	(12') Lean CLAY (CL); medium plasticity, Clay	(12.0') CL 4b	15
20						11	1.00 25	(20') Clayey SAND (SC); Clay and Silty Sand	(20.0') SC 4a	20
25						14	0.50 39	(25') Boring terminated		25
30						18				30
35						21				35
40										40

LICENSED PROFESSIONAL ENGINEER
ANTHONY SANTORO
NO. 083550
STATE OF NEW YORK

NOTES: 1. Elevations refer to North American Vertical Datum (NAVD) of 1988. 2. Groundwater can appear/fluctuate due to rain, tides, season, and cresting groundwater on dates other than tested and/or signed herewith. 3. For site specific bearing capacity refer to SPT blow counts.

A Tech Engineering NYC, P.L.L.C. 4442 Amhurst Rd. S.I.N.Y., 10309 (718) 948-2785	Client: Donato Inc. Project: Block: 638 Lot: 13 Address: 47 Irving Place (House and Garage), Staten Island, NY	BORING LOG Boring No. B-6 (Building) Page: 1 of 1
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Drilling Start Date: 10/22/20 Drilling End Date: 10/22/20 Drilling Company: Drill Masters Inc. Drilling Method: Hollow Stem Auger Drilling Equipment: Acker Soil XLS Driller: Logged By: Anthony Santoro, P.E.	Boring Depth (ft): 25.0 Boring Diameter (in): Sampling Method(s): Split Spoon DTW During Drilling (ft): N/A DTW After Drilling (ft): N/A Ground Surface Elev. (ft): Location (Lat, Long):
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DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT					SOIL/ROCK VISUAL DESCRIPTION	REMARKS	DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)	N Value ROD%			
0									(0') ORGANIC SOIL (OL)		0
									(1') Clayey SAND (SC); Clay, Some Silty Sand	(1.0') SC 4b	
5							0.66	16	(5') Clayey SAND (SC); Silty Sand and Gravel, Trace of Clay	(5.0') SC 3b	5
10							1.00	23	(11') Lean CLAY (CL); medium plasticity, Clay	(11.0') CL 4b	10
15							1.50	19	(17') Clayey SAND (SC); Clay and Silty Sand	(17.0') SC 4a	15
20							1.50	26			20
25							1.00	33			25
									(25') Boring terminated		



NOTES: 1. Elevations refer to North American Vertical Datum (NAVD) of 1988. 2. Groundwater can appear/fluctuate due to rain, tides, season, and cresting groundwater on dates other than tested and/or signed herewith. 3. For site specific bearing capacity refer to SPT blow counts.

A Tech Engineering NYC, P.L.L.C. 4442 Arthur Kill Rd. S.I.N.Y., 10309 (718) 948-2785	Client: Donato Inc. Project: Block: 638 Lot: 14 Address: Irving Place (House and Garage), Staten Island, NY	BORING LOG Boring No. B-7 (Building) Page: 1 of 1
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Drilling Start Date: 10/22/20 Drilling End Date: 10/22/20 Drilling Company: Drill Masters Inc. Drilling Method: Hollow Stem Auger Drilling Equipment: Acker Soil XLS Driller: Logged By: Anthony Santoro, P.E.	Boring Depth (ft): 25.0 Boring Diameter (in): Sampling Method(s): Split Spoon DTW During Drilling (ft): N/A DTW After Drilling (ft): N/A Ground Surface Elev. (ft): Location (Lat, Long):
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DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT					SOIL/ROCK VISUAL DESCRIPTION	REMARKS	DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)	N Value			
0									(0') Fill		0
1									(1') Clayey SAND (SC); Clay and Some Silty Sand	(1.0') SC 4b	
5						5	0.58	13			5
6						8			(6') Clayey SAND (SC); Silty Sand and Gravel, Trace of Clay	(6.0') SC 3b	
10						11	1.00	26			10
15						14			(13') Lean CLAY (CL), medium plasticity, Clay	(13.0') CL 4b	
16						11	1.50	25			15
20						13			(19') Clayey SAND (SC); Clay and Silty Sand	(19.0') SC 4a	
21						16	1.50	29			20
25						15	0.83	33			25
26						18			(25') Boring terminated		25
30											30
35											35
40											40



NOTES: 1. Elevations refer to North American Vertical Datum (NAVD) of 1988. 2. Groundwater can appear/fluctuate due to rain, tides, season, and cresting groundwater on dates other than tested and/or signed herewith. 3. For site specific bearing capacity refer to SPT blow counts.

A Tech Engineering NYC, P.L.L.C.
4442 Arthur Kill Rd. S.I.N.Y.,
10309 (718) 948-2785

Client: Donato Inc.
Project: Block: 638 Lot: 14
Address: Irving Place (House and Garage),
Staten Island, NY

BORING LOG

Boring No. B-8 (Building)
Page: 1 of 1

Drilling Start Date: 10/22/20
Drilling End Date: 10/22/20
Drilling Company: Drill Masters Inc.
Drilling Method: Hollow Stem Auger
Drilling Equipment: Acker Soil XLS
Driller:
Logged By: Anthony Santoro, P.E.

Boring Depth (ft): 25.0
Boring Diameter (in):
Sampling Method(s): Split Spoon
DTW During Drilling (ft): N/A
DTW After Drilling (ft): N/A
Ground Surface Elev. (ft):
Location (Lat, Long):

DEPTH (ft)	LITHOLOGY	WATER LEVEL BORING COMPLETION	COLLECT					SOIL/ROCK VISUAL DESCRIPTION	REMARKS	DEPTH (ft)
			Sample Type	Time	Blow Counts	Recovery (ft)	N Value RQD%			
0								(0') ORGANIC SOIL (OL)		0
								(1') Clayey SAND (SC); Clay and Some Silty Sand	(1.0') SC 4b	
5								(5') Clayey SAND (SC); Silty Sand and Gravel, Trace of Clay	(5.0') SC 3b	5
10								(12') Lean CLAY (CL); medium plasticity, Clay	(12.0') CL 4b	10
15								(18') Clayey SAND (SC); Clay and Silty Sand	(18.0') SC 4a	15
20										20
25								(25') Boring terminated		25
30										30
35										35
40										40



NOTES: 1. Elevations refer to North American Vertical Datum (NAVD) of 1988. 2. Groundwater can appear/fluctuate due to rain, tides, season, and cresting groundwater on dates other than tested and/or signed herewith. 3. For site specific bearing capacity refer to SPT blow counts.

BORING AND WELL LOG LEGEND

LITHOLOGY	WATER LEVEL	WELL/BORING COMPLETION	Sample Type	DESCRIPTION
				ASPHALT
				CONCRETE
				BEDROCK
				IGNEOUS Rock
				METAMORPHIC Rock
				SEDIMENTARY Rock
				Well-graded GRAVEL (GW)
				Poorly graded GRAVEL (GP)
				Silty GRAVEL (GM)
				Clayey GRAVEL (GC)
				Well-graded GRAVEL with silt (GW-GM)
				Poorly graded GRAVEL with silt (GP-GM)
				Well-graded GRAVEL with clay (GW-GC)
				Poorly graded GRAVEL with clay (GP-GC)
				Well-graded SAND (SW)
				Poorly graded SAND (SP)
				Silty SAND (SM)
				Clayey SAND (SC)
				Well-graded SAND with silt (SW-SM)
				Poorly graded SAND with silt (SP-SM)
				Well-graded SAND with clay (SW-SC)
				Poorly graded SAND with clay (SP-SC)
				SILT (ML)
				Lean CLAY (CL)
				Organic SOIL (OL)
				Elastic SILT (MH)
				Fat CLAY (CH)
				Organic SOIL (OH)
				Organic SOIL (OL/OH)
				PEAT (PT)
Volume Descriptors:				
Trace = <5%				
Few = 5-10%				
Little = 15-25%				
Some = 30-45%				
Mostly = >=50%				
Water Level During Drilling				
Water Level at End of Drilling/In Completed Well				
Cap				
Riser				
Screen				
End Plug				
Annular Seal (Bentonite-Cement Grout, Bentonite Slurry/Chips/Pellets/Powder, Other)				
Sanitary Seal (Bentonite Slurry/Chips/Pellets/Powder, Other)				
Filter Pack (Sand, Gravel, Other)				
Backfill				
Grab				
Encore				
Split Spoon				
Shelby Tube				
Core Barrel				
Direct Push				
Lab Sample and ID				

NOTES:

SOIL GROUPS	UNIFIED SOIL CLASSIFICATION TYPICAL NAMES
GW	WELL GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
GP	POORLY GRADED GRAVELS OR GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
GM	SILTY GRAVELS, GRAVEL-AND-SILT MIXTURES
GC	CLAYEY GRAVELS, GRAVEL-AND-CLAY MIXTURES
SW	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
SP	POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES
SM	SILTY SANDS, SAND-SILT MIXTURES
SC	CLAYEY SANDS, SAND-CLAY MIXTURES
ML	INORGANIC SILTS & VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
CL	INORGANIC CLAYS OF LOW TO MEDIUM PLACTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS

ALLOWABLE BEARING PRESSURES NYC BUILDING CODE BC1804 (Tab.1804.1)		
CLASS OF MATERIALS	DESCRIPTION	MAX ALLOWABLE FOUNDATION PRESSURE TONS/SQ FT
1a	HARD SOUND ROCK - GNEISS, DIABASE, SCHIST	60
1b	MEDIUM HARD ROCK - MARBLE, SERPENTINE	40
1c	INTERMEDIATE ROCK - SHALE, SANDSTONE	20
1d	SOFT ROCK - WEATHERED ROCK	8
2a	SANDY GRAVEL (SOIL GROUPS GW,GP) - DENSE	10
2b	SANDY GRAVEL (SOIL GROUPS GW,GP) - MEDIUM	6
3a	GRANULAR SOILS (SOIL GROUPS GC,GM,SW,SP,SM AND SC) - DENSE	6
3b	GRANULAR SOILS (SOIL GROUPS GC,GM,SW,SP,SM AND SC) - MEDIUM	3
4a	CLAYS AND CLAY SOILS (SOIL GROUPS SC, CL & CH) - HARD	5
4b	CLAYS AND CLAY SOILS (SOIL GROUPS SC, CL & CH) - STIFF	3
4c	CLAYS AND CLAY SOILS (SOIL GROUPS SC, CL & CH) - MEDIUM	2
5a	SILTS AND SILTY SOILS (SOIL GROUPS ML & MH) - DENSE	3
5b	SILTS AND SILTY SOILS (SOIL GROUPS ML & MH) - MEDIUM	1.5
6	ORGANIC SILTS, ORGANIC CLAYS, PEATS, SOFT CLAYS, LOOSE GRANULAR SOILS AND VARVED SILTS	see 1804.2.1
7	CONTROLLED AND UNCONTROLLED FILLS	see 1804.2.2 or 1804.2.3