

5	Test Report <i>Required for all applications.</i>
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[illegible]

6	Statements and Signatures <i>Required for all applications.</i>
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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.

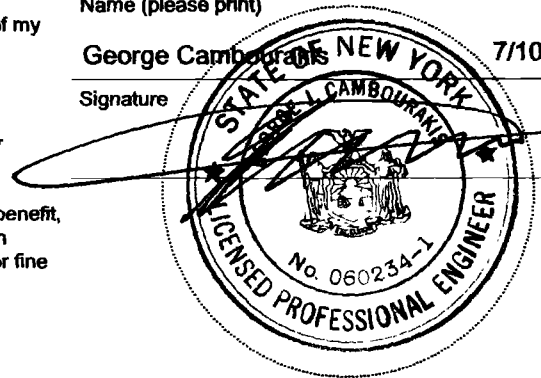
It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by imprisonment or fine or both.

Name (please print)

George Cambourakis

Signature

7/10/17

Date

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

[illegible]

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

TRI-STATE DRILLING TECHNOLOGIES, INC.
94 Gardens Avenue #388, Levittown, New York 11756

SOIL BORING REPORT LOG

DATE: 07/10/17 SHEET 1 OF 1
CLIENT: Hoytman Residence LOCATION ID: B-1
Project Location: 80-67 223RD Street, Queens, N.Y. PROJECT #17260
Remarks: Proposed Improvements

DRILLING CONTRACTOR: TSDT, Inc. Logged: PR DRILLER: PR
EQUIPMENT: SOIL SAMPLER: 140 lbs. 30-Inches Auger Standard Penetration Test: 3 1/2" DRILL RIG DRILL METHOD: Mobile Truck
TYPE: STD SIZE: 2-Inch

Surface Elevation: NA
WATER LEVEL (In Open Borehole): None Encountered
Surface Material: Soil

DEPTH	SAMPLE	BLOW COUNTS	CLASS OF MATERIAL	MOISTURE	STRATA	SOIL - ROCK DESCRIPTION - CLASSIFICATION
0	S-1	8	7	3	Dry	Dark Brown Fine SAND & SILT (SM) To 2 Feet
5	S-2	7	10	8	12	Brown Fine SAND some GR (SM) To 8 Feet
10	S-3	12	9	8	11	Brown Fine SAND some Gravel (SP) To 16 Feet
15	S-4	7	10	13	8	Brown Fine SAND some Gravel (SP) To 20 Feet
20	S-5	18	21	27	11	Brown Fine SAND some Gravel (SP) To 25 Feet
25	S-6	13	16	15	13	Brown Fine SAND some Gravel (SP) To 30 Feet
30	S-7	12	17	12	10	Brown Fine SAND & GRAVEL some GR (SP) To 35 Feet
35	S-8	19	22	28	20	Brown Fine SAND & GRAVEL some GR (SP) To 40 Feet
40						End of Boring @ 40 Feet

PERCOLATION TEST WORK SHEET Date: 7/10/17
Project Name/Location: 80-67 223RD Street, Queens, NY
Boring Identification Number: P-1

TEST SPECIFICATIONS
Inside diameter of casing: 4-INCH
Height of casing above ground surface: TEST 1: 0 R TEST 2: 0 R TEST 3: 0 R
Length of casing in ground: TEST 1: 5 R TEST 2: 10 R TEST 3: 15 R
Diameter of bore hole (at open hole): TEST 1: na TEST 2: na TEST 3: na
Depth to bottom of boring from top of casing: TEST 1: 5 R TEST 2: 10 R TEST 3: 15 R
Depth to test water level from top of casing: TEST 1: 5 R TEST 2: 5 R TEST 3: 5 R
Description of exposed material tested: Sand-Silt Sand-Gravel Sand-Gravel

TIME IN MINUTES			DEPTH TO WATER SURFACE IN FEET		
TEST 1	TEST 2	TEST 3	TEST 1	TEST 2	TEST 3
0	0	0	50	58	5
1	1	1	51	59	51
2	2	2	51	60	52
5	5	5	52	62	54
10	10	10	52	65	56
15	15	15	53	67	58
20	20	20	53	69	60
25	25	25	54	71	62
30	30	30	54	73	64

OBSERVATIONS AND COMMENTS:
PERCOLATION RATE: @ 5 FEET = 1.0 INCH / HR
@ 10 FEET = 5.5 INCH / HR
@ 15 FEET = 3.4 INCH / HR

TYPICAL NAMES		MAJOR DIVISIONS	
1	2	3	4
COARSE GRAINED SOILS MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVELS MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 4 SIEVE SIZE	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-SAND-SILT MIXTURE.
		GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES.
		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES.
FINE GRAINED SOILS MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SANDS MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 4 SIEVE SIZE	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 AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY.
		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS.
HIGHLY ORGANIC SOILS	SILTS & CLAYS LIQUID LIMIT IS LESS THAN 50	OL	ORGANIC SILTS & ORGANIC SILTY CLAYS OF LOW PLASTICITY.
		MH	INORGANIC SILTS, MICACEOUS OR DISTOMACEOUS 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.
		PI	PEAT AND OTHER HIGHLY ORGANIC SOILS.

ALLOWABLE SOIL BEARING PRESSURES N.Y.C. BUILDING CODE 27-678

CLASS OF MATERIAL	DESCRIPTION	ALLOWABLE BEARING TONS/SQ. FT.
1A	HARD SOUND ROCK	80
1B	MEDIUM HARD ROCK	40
1C	INTERMEDIATE ROCK	20
2	SOFT ROCK	8
3	HARDENED GRAVEL AND SOILS (SOIL GROUPS GW, GP, SM & GC AND GROUPS SM, SP & SM CONTAINING MORE THAN 10% GRAVEL) SANDS (OTHER THAN FINE SANDS) (SOIL GROUPS SM, SP & SM BUT CONTAINING NOT MORE THAN 10% GRAVEL)	4-10
4	FINE SAND, CLAYS AND CLAY SOILS (SOIL GROUPS SC, CL & CH)	3-6
5	HARD MEDIUM SOFT SILTS AND SILT SOILS (SOIL GROUPS ML & MH)	2-4
6	DENSE MEDIUM LOOSE NOMINALLY UNSATISFACTORY BEARING MATERIALS.	(5 MAX) (2 MAX) BY TEST
7		3 1.5 BY TEST

COMPACTION RELATED TO SPOON BLOWS PER FOOT

GRAVEL & SAND		SILT & CLAY	
VERY LOOSE	0 TO 4	SOFT	4 OR LESS
LOOSE	5 TO 10	MEDIUM	5 TO 8
MEDIUM	11 TO 30	STIFF	9 TO 16
DENSE	31 TO 50	VERY STIFF	17 TO 32
VERY DENSE	OVER 50	HARD	OVER 32

SOIL DESCRIPTIONS ARE BY VISUAL EXAMINATION OF SOIL SAMPLES RECOVERED DURING DRILLING OPERATIONS
SOIL DESCRIPTIONS ARE IN ACCORD WITH THE UNITED SOILS CLASSIFICATION SYSTEM AND NYC BUILDING CODE SUBCHAPTER 11 ARTICLE 4.

ALL BORING ELEVATIONS ARE REFERENCED TO EXISTING GROUND LEVEL AS ZERO ELEVATION.

"N"	STANDARD PENETRATION TEST (2" SPOON, 140 lb HAMMER, 30" FALL)
N = 21 BLOWS PER FOOT	SPOON BLOW COUNT IS GENERALLY SHOWN IN 1" INCREMENTS FOR 2" DRIVE TO OBTAIN BLOWS PER FOOT (N) USE THE 2nd & 3rd 6" INCREMENT

THIS REPORT IS SUBMITTED WITH THE SPECIFIC UNDERSTANDING THAT THE SOLE LIABILITY OF TRI-STATE DRILLING TECHNOLOGIES, INC. ITS ENGINEERS AND EMPLOYEES FOR ERRORS AND OMISSIONS IS LIMITED TO THE AMOUNT OF THE FEE PAID FOR THIS REPORT. USE OF THIS REPORT WILL CONSTITUTE AN ACCEPTANCE BY THE CLIENT OF THIS DISCLAIMER. THE FEE CHARGED FOR THIS REPORT IS PRECISELY UPON THIS LIMITATION OF LIABILITY WHICH IS THE ESSENCE OF THIS AGREEMENT. IF THESE TERMS ARE NOT ACCEPTABLE, CLIENT MUST NOTIFY T.S.D. TECH. INC. IN WRITING BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED WITHIN FIVE (5) DAYS. TRI-STATE DRILLING TECHNOLOGIES, INC. ITS ENGINEERS AND EMPLOYEES DO NOT ACCEPT ANY LIABILITY OR RESPONSIBILITY FOR PERSONS OTHER THAN THE CLIENT FOR WHOM THIS WORK WAS DIRECTLY PREPARED AND ANY SUCH PERSON, FIRM OR CORPORATION RELIES ON THIS REPORT AT HIS OWN RISK.

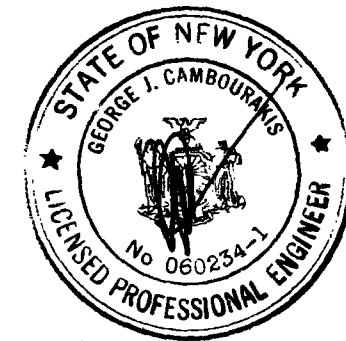
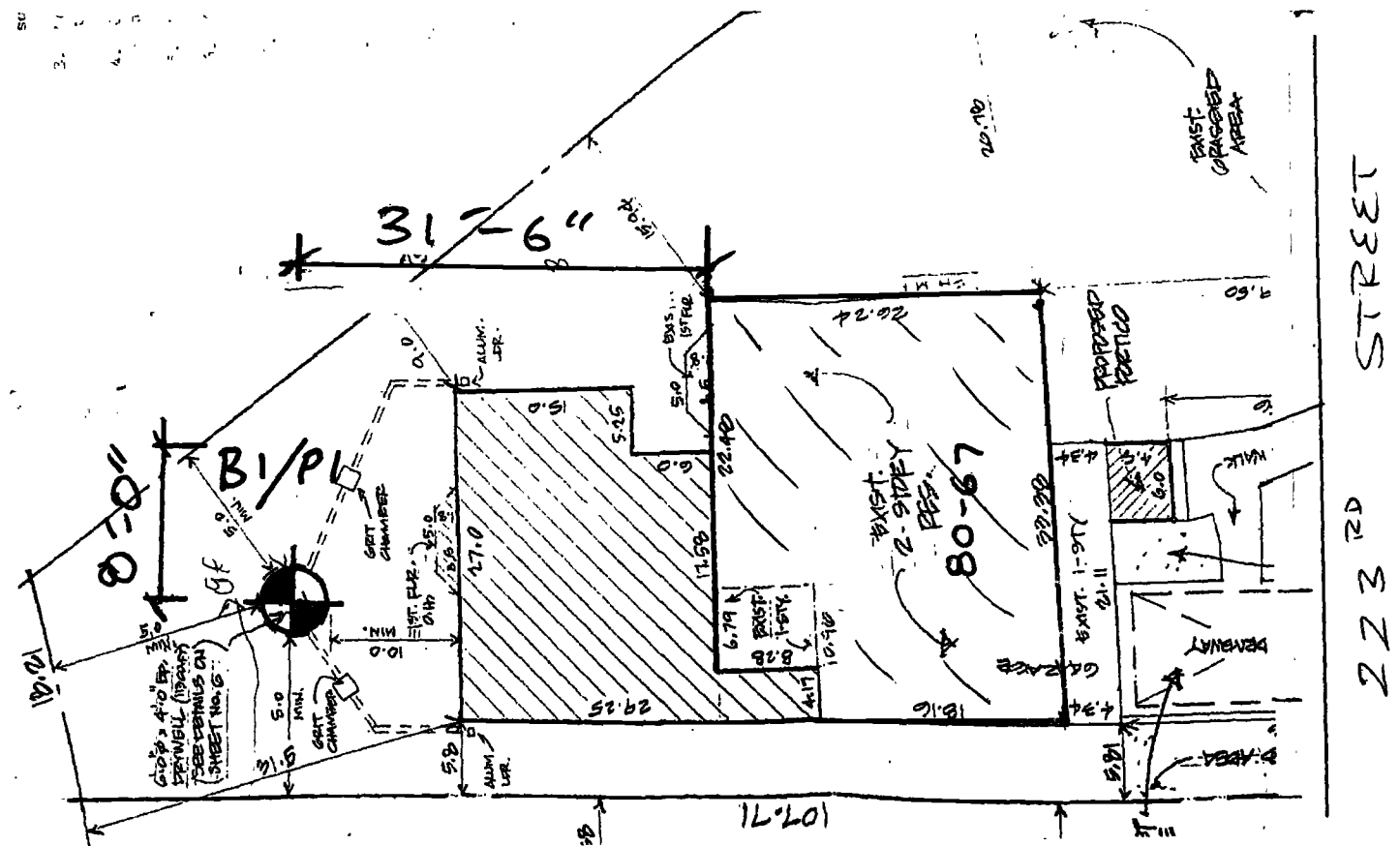
BORING CONTRACTOR'S CERTIFICATIONS

TRI-STATE DRILLING TECHNOLOGIES, INC. CERTIFIES AS TO THE ACCURACY OF THE SPOON AND CASING BLOWS AND ELEVATIONS AND METHOD OF BORING.

THE FOLLOWING EQUIPMENT WAS USED:		TYPE OF CORE BARRELS AND DIAMOND BITS:		WEIGHT OF HAMMERS.
EQUIPMENT -	SIZE	O.D.	CORE DIAMETERS	
SPRAGUE & HENWOOD MODEL 30	AK	1-7/8"	1-1/8"	300 LBS. ON 2-1/2" CASING - 1/8" DROP
40 CL. AKER MODEL PST	AK	2-1/8"	2-1/8"	140 LBS. ON 2" SPOON - 3/8" DROP
LD 1000 CME 55 CME 40	AJM	1-7/8"	1-1/8"	SPOON - SPLIT SAMPLER - 2" O.D. - 1-3/8" I.D. (2" LONG)
	NOM	2-1/8"	2-1/8"	
	B	2"	1-3/8"	

NOTE: WATER NOTED ON PRINT IS ONLY FIRST INDICATION OF WATER. FOR EXACT RESULTS CALL OUR WELL POINT TEST

DATE: 7/10/17
PROJECT NO: 17260
DRAWING BY: NR
DWG No: B-260.00
1 of 1



TRI-STATE DRILLING TECHNOLOGIES, INC.
TEL: (516) 294-6400 FAX: (516) 746-4432

SB# B1-P1
PROJECT # 17260
BORING-LOCATION PLAN
80-67 223RD ST.
QUEENS, N.Y.