

101 LINCOLN AVENUE  
BRONX, NEW YORK

CLIENT NAME:

NY DEVELOPERS & MANAGEMENT  
1825 65TH STREET  
BROOKLYN, NEW YORK

GEOTECHNICAL ENGINEER:

**PILLORI ASSOCIATES, P.A.**  
Geotechnical Engineering

71 Route 95  
Laurens Harbor, New Jersey 08079  
Tel. 732.335.0059 Fax. 732.335.8515  
333 Meadows Parkway, Suite 102  
Secaucus, New Jersey 07096  
Tel. 201.558.0065 Fax. 201.558.1427  
email: office@pilloriassociates.com

No. DRAWINGS/REVISIONS DATE

DRILL RIG TYPE: TRUCK MOUNTED  
DRILLING METHOD: ROTARY  
SAMPLE HAMMER WEIGHT: 140 LBS.  
CASING HAMMER WEIGHT: 300 LBS.  
CASING DIAMETER: 4"  
SAMPLER DIAMETER: 2"

DRAWING TITLE:

**BORINGS B-15 AND B-16  
BORING B-17W PAGE 1**

DRAWN: JG CHECKED: ERK REVIEWED: GP

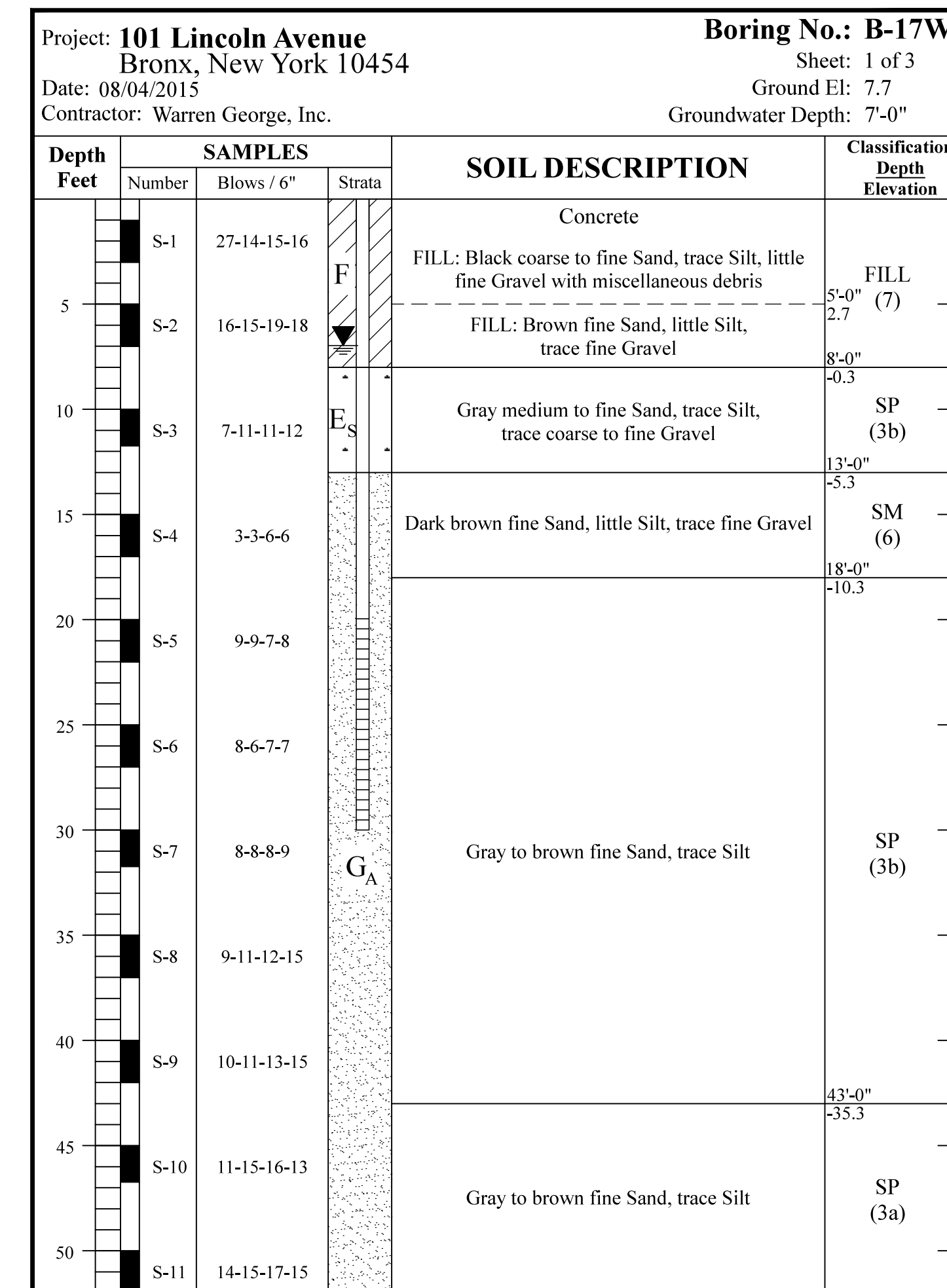
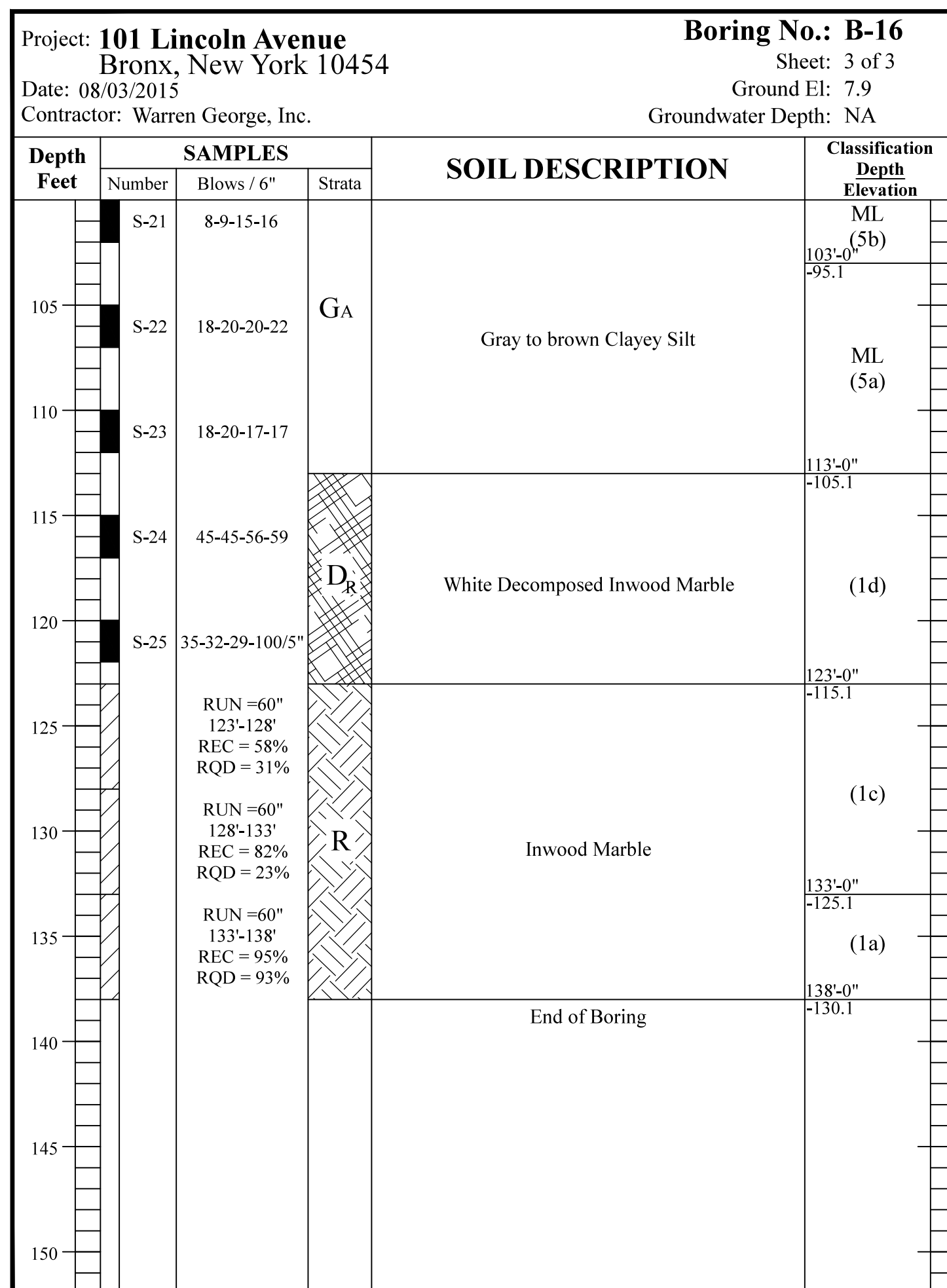
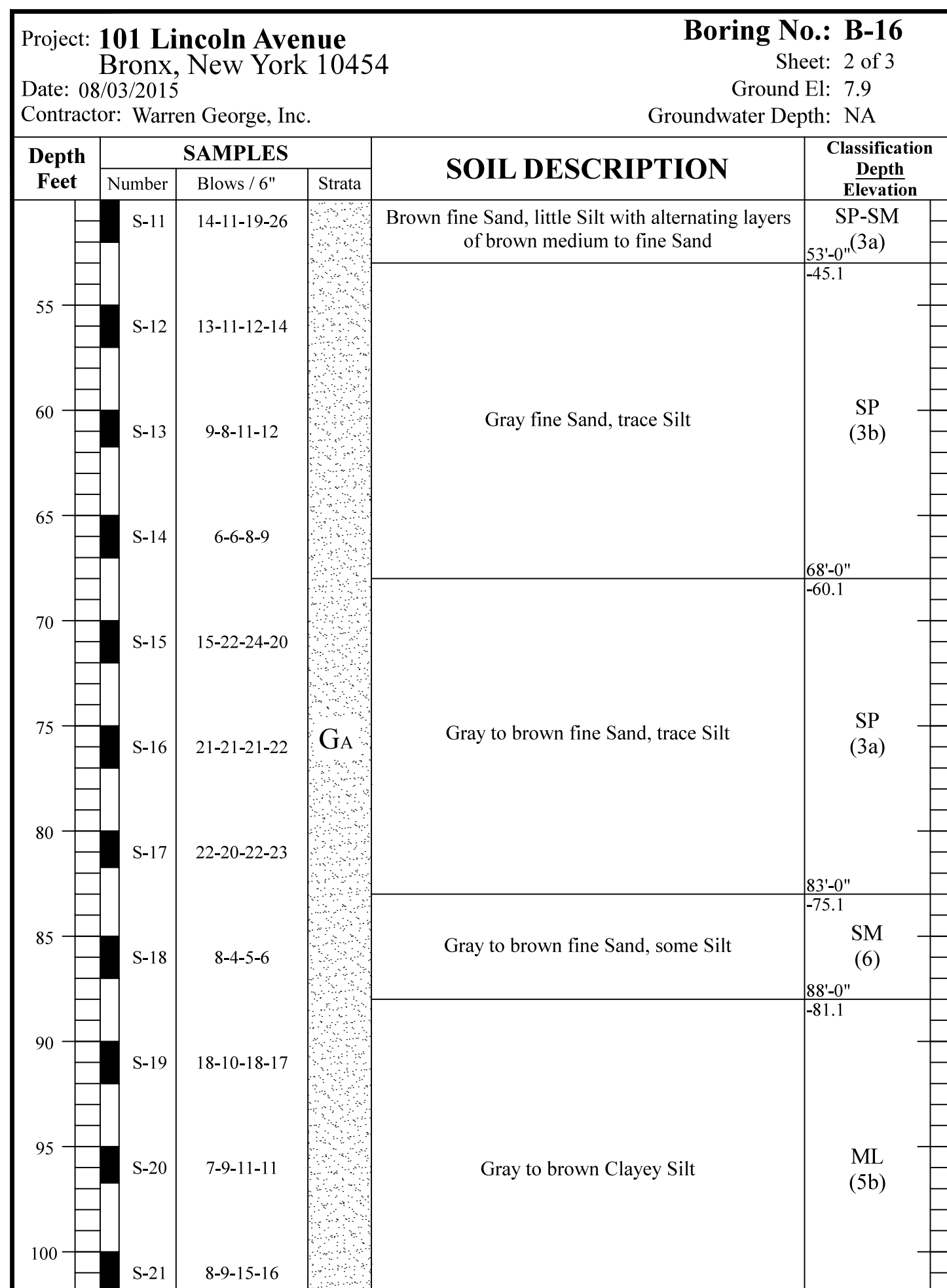
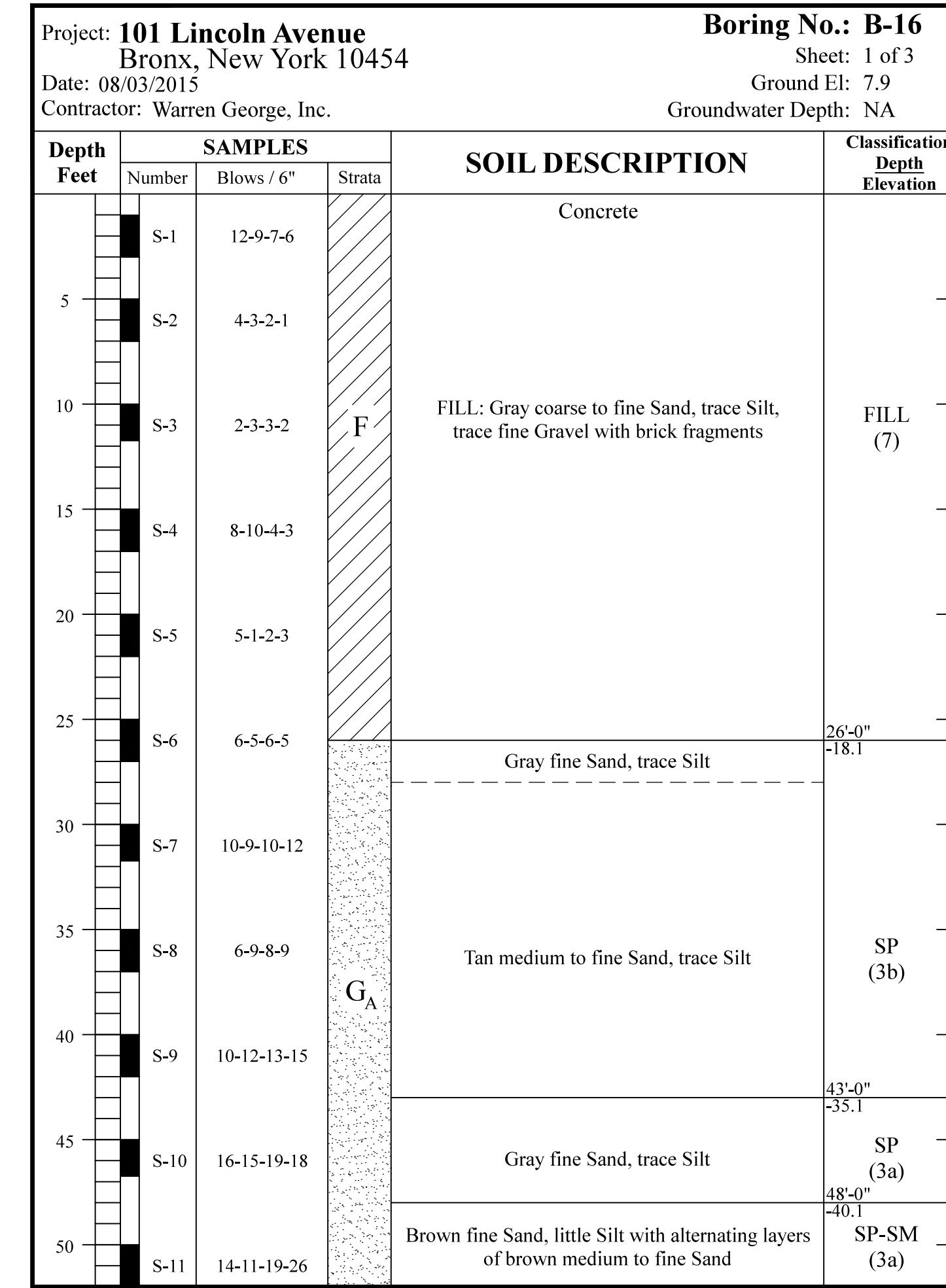
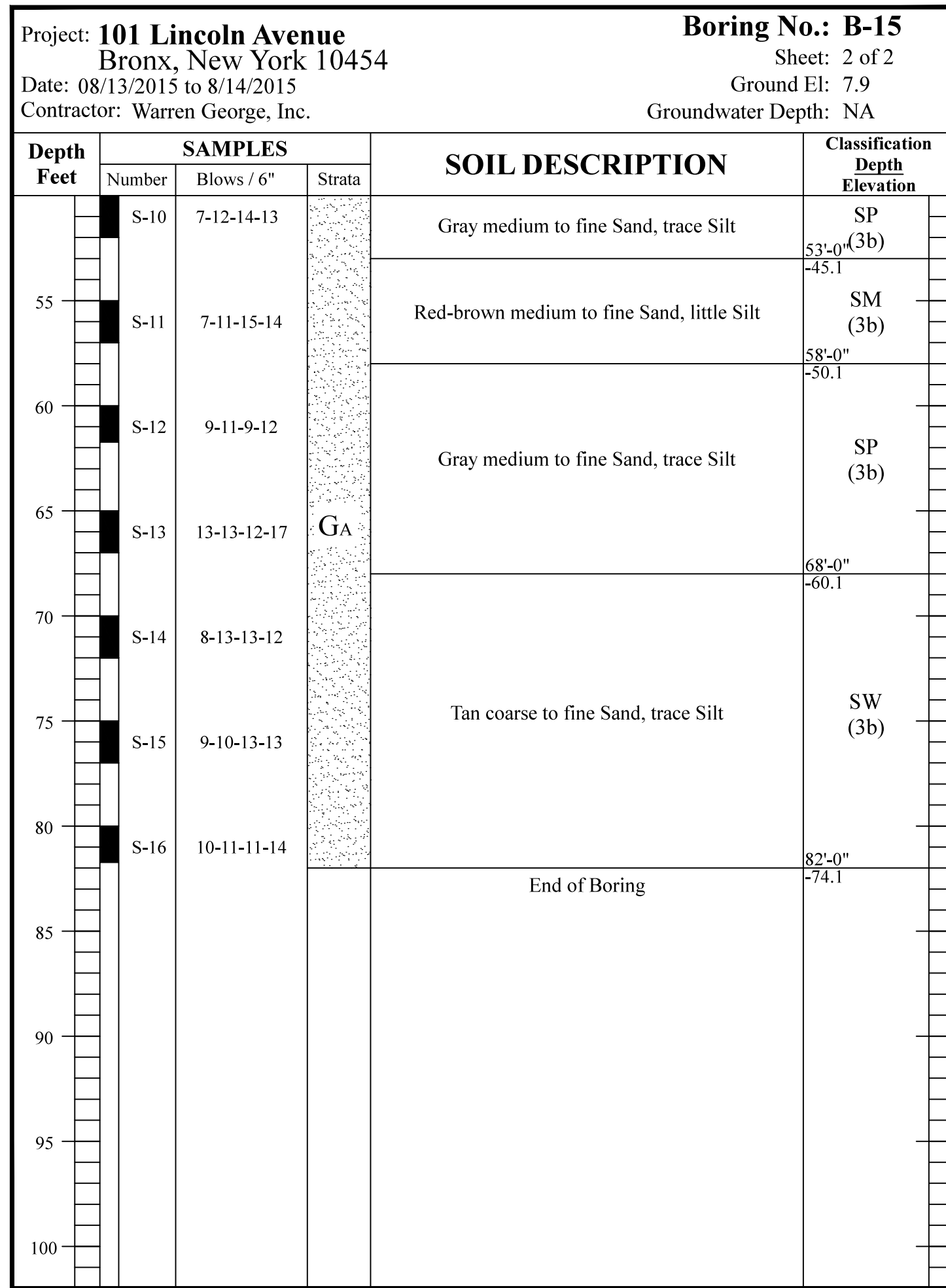
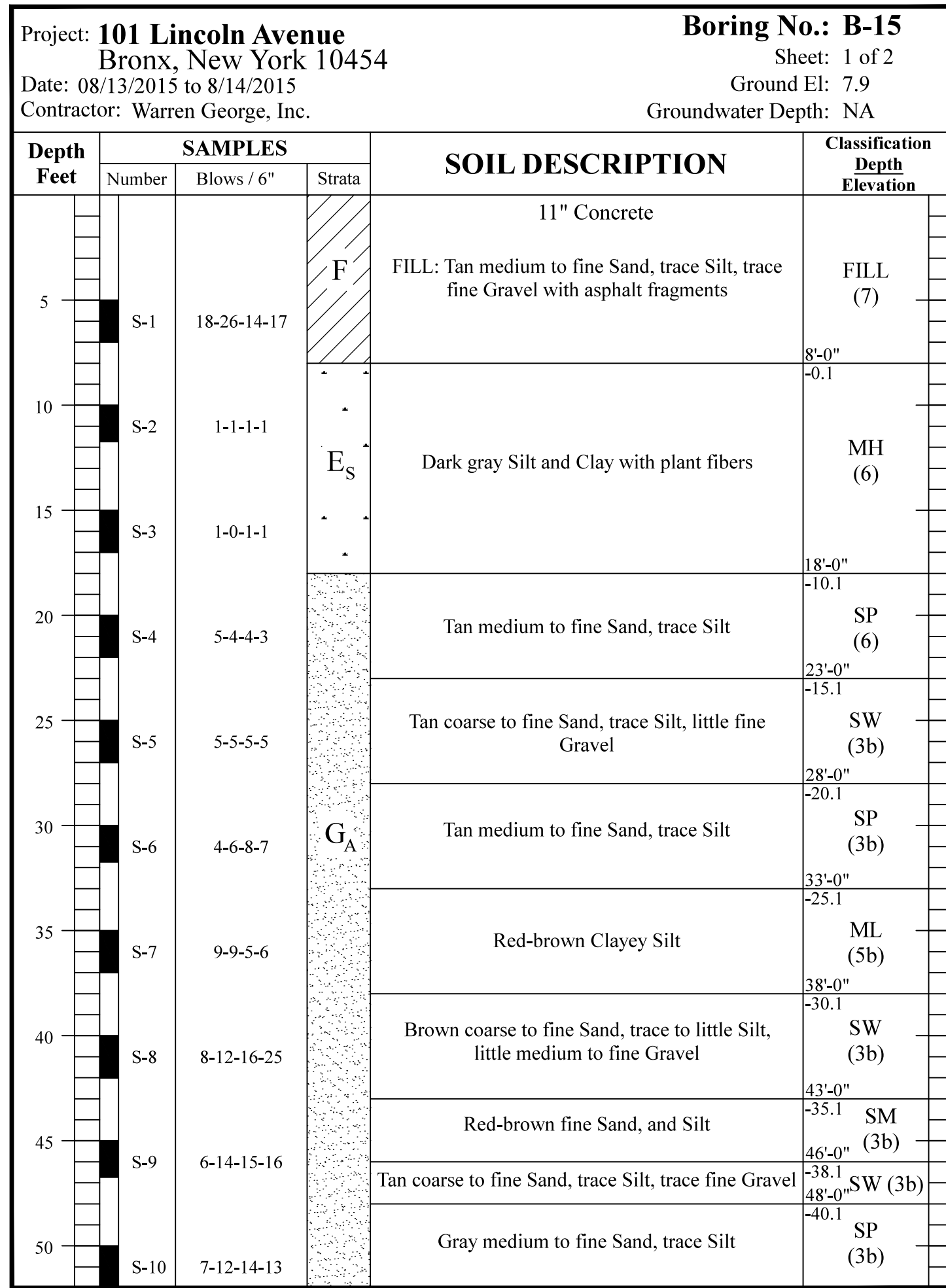
DATE: 10/20/2015

SCALE: AS NOTED

JOB NO.: 150303

DRAWING No. **B-007.00**

SHEET 7 OF 12



PROJECT NAME:

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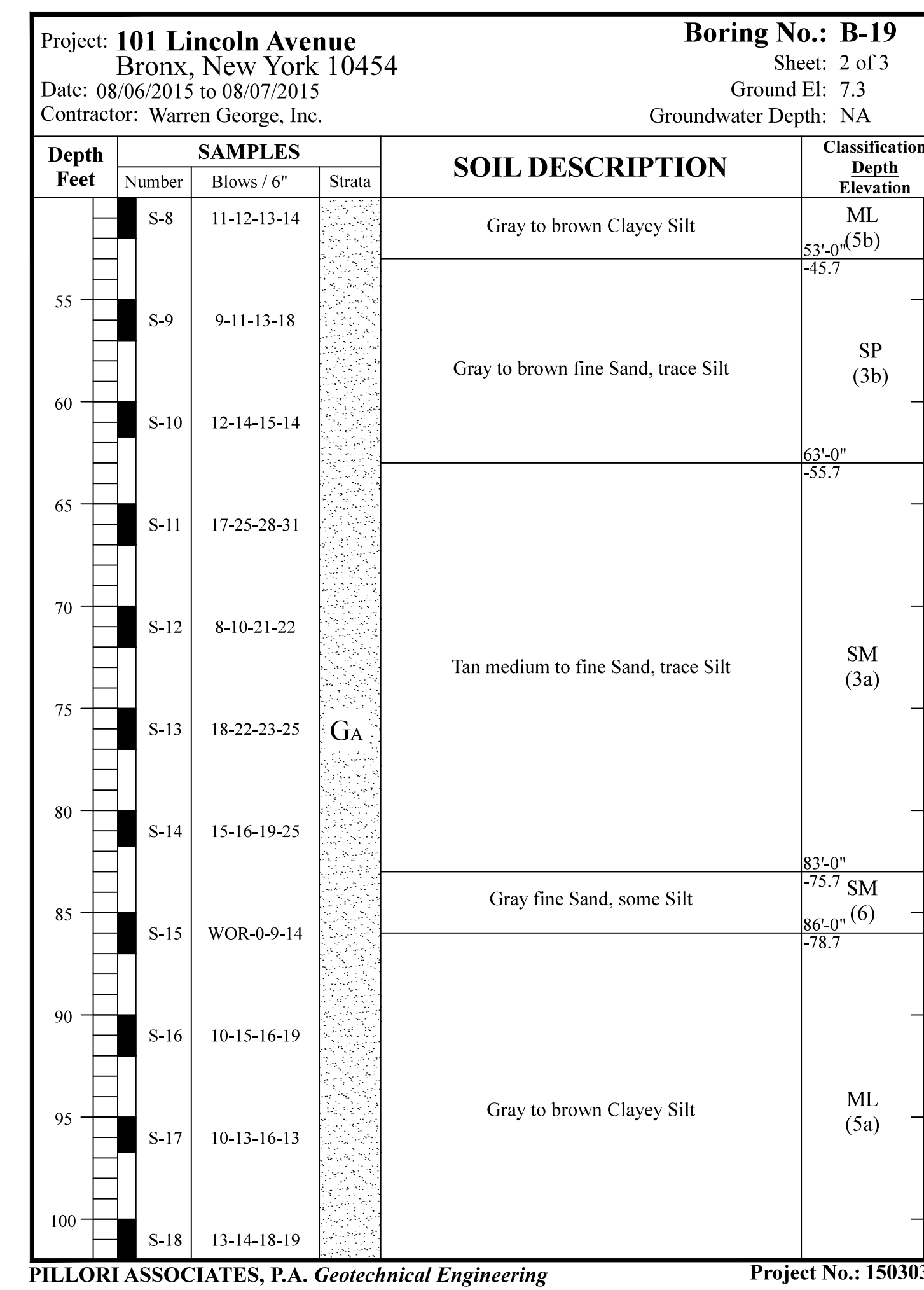
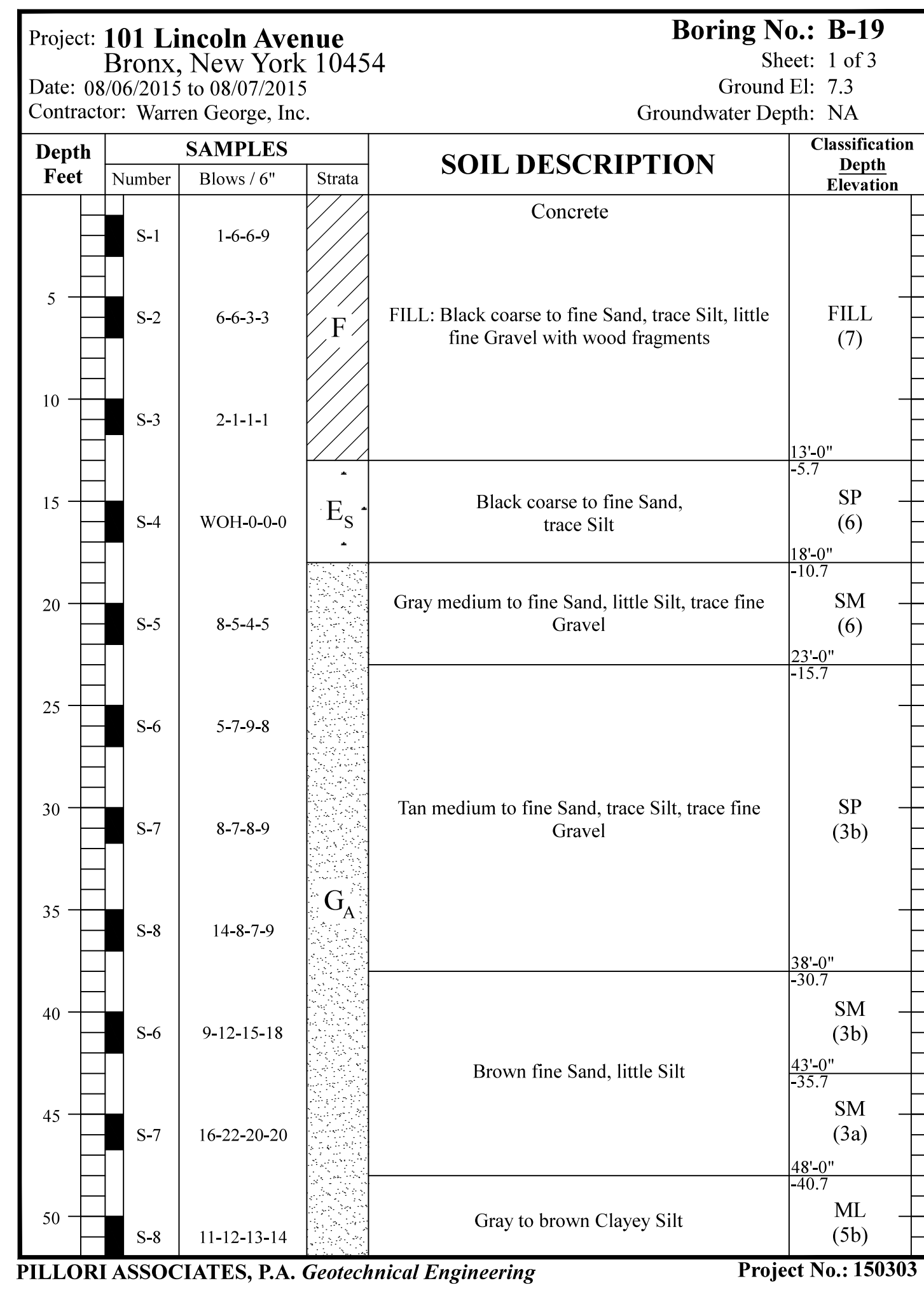
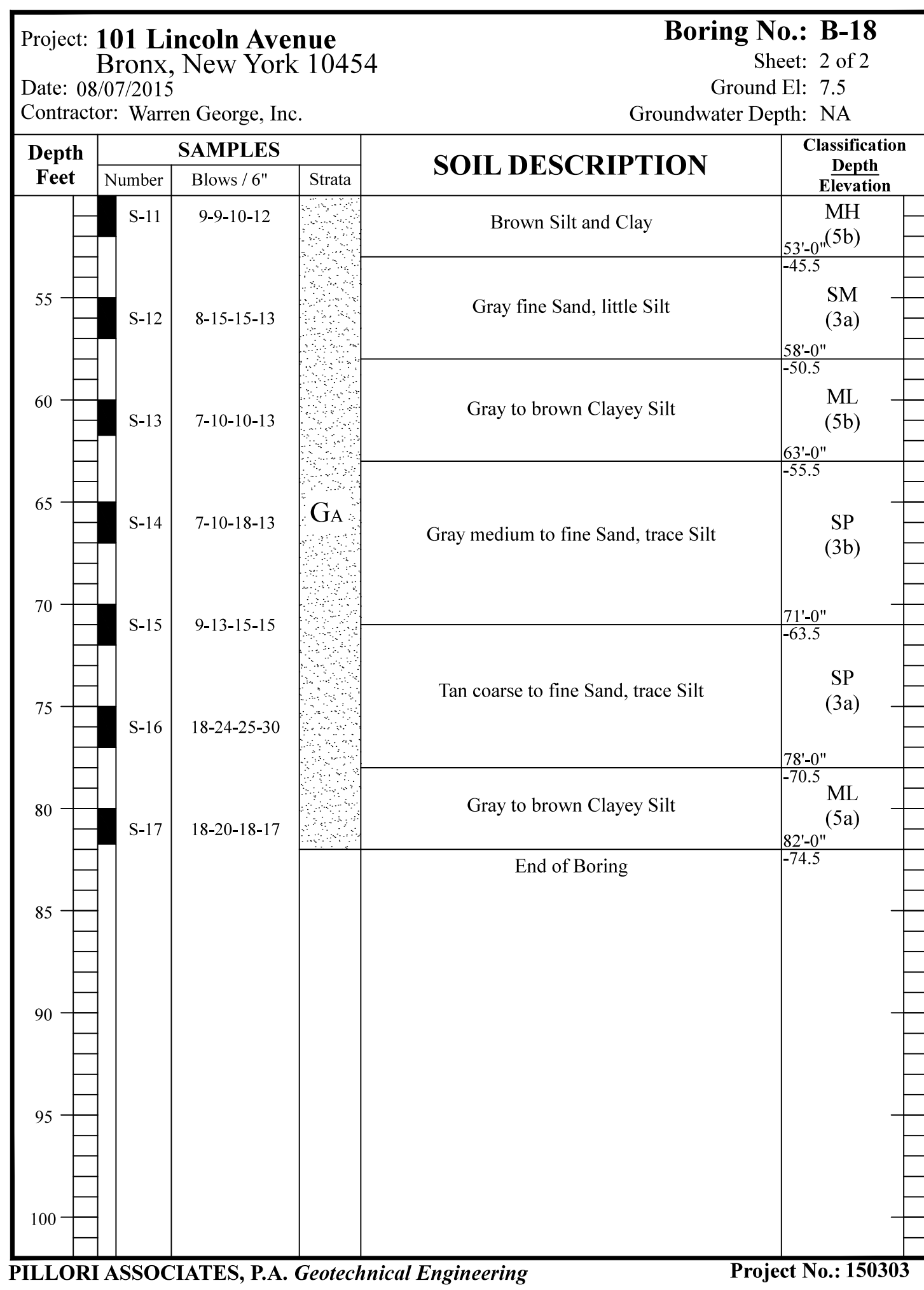
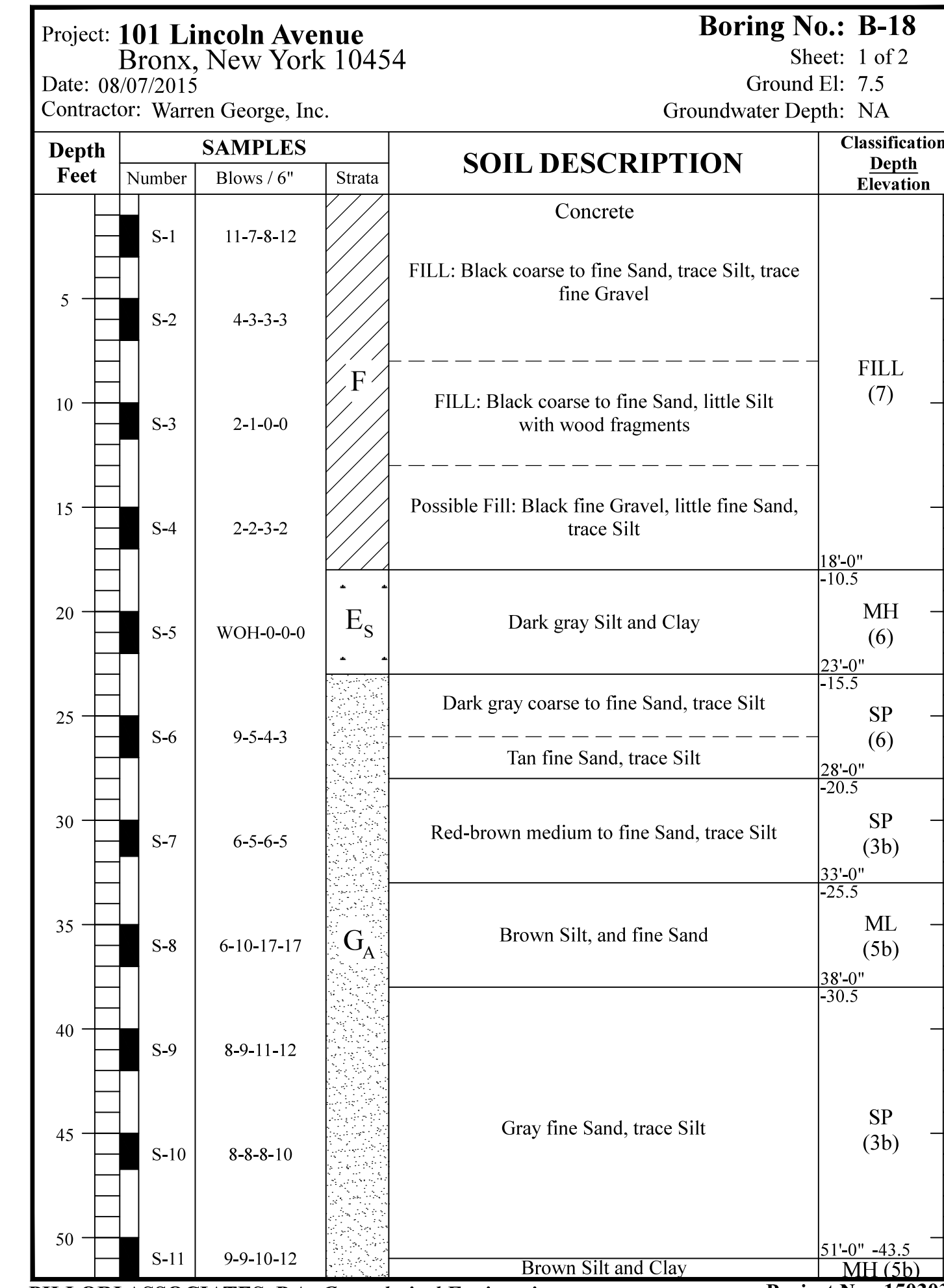
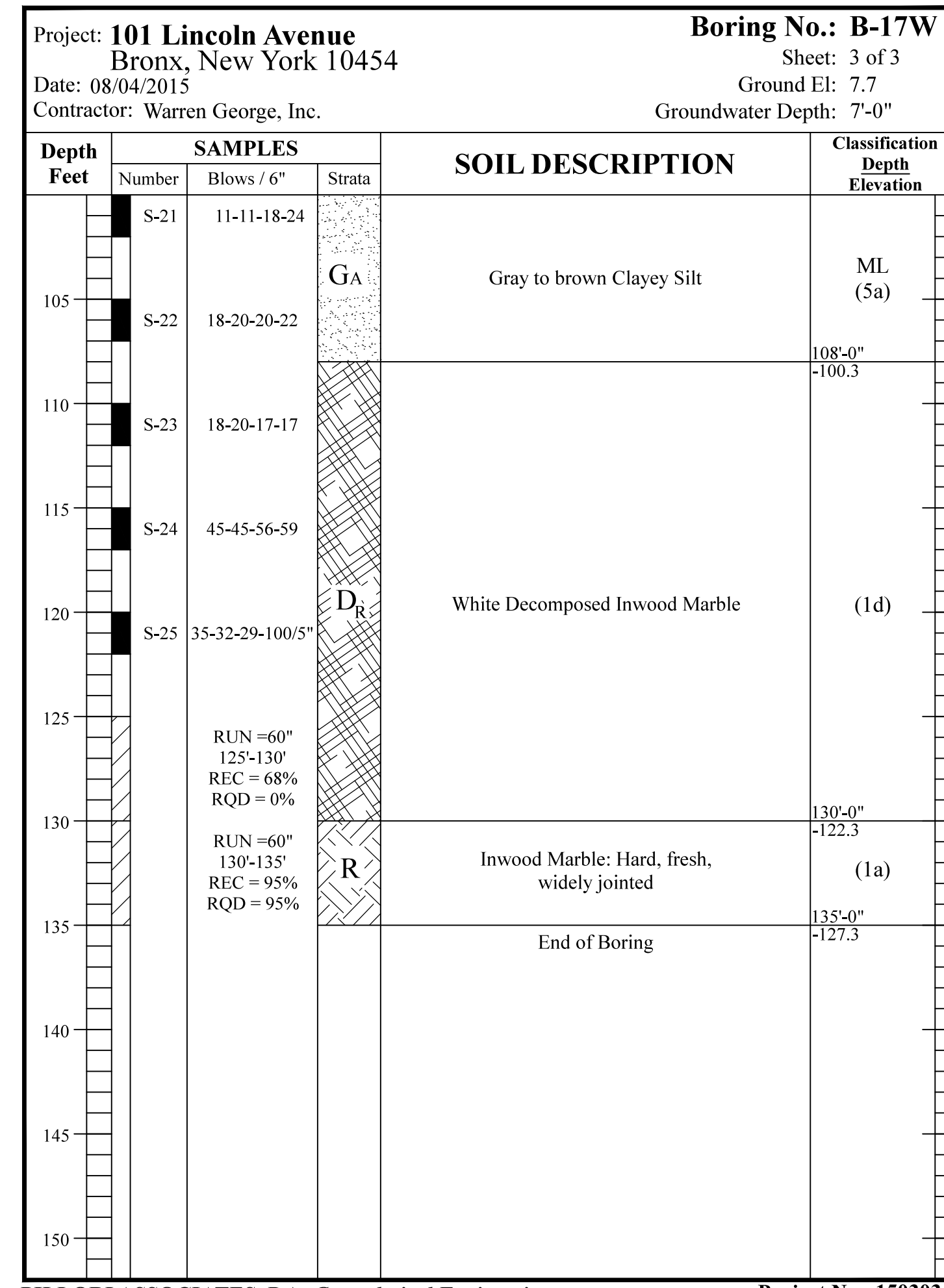
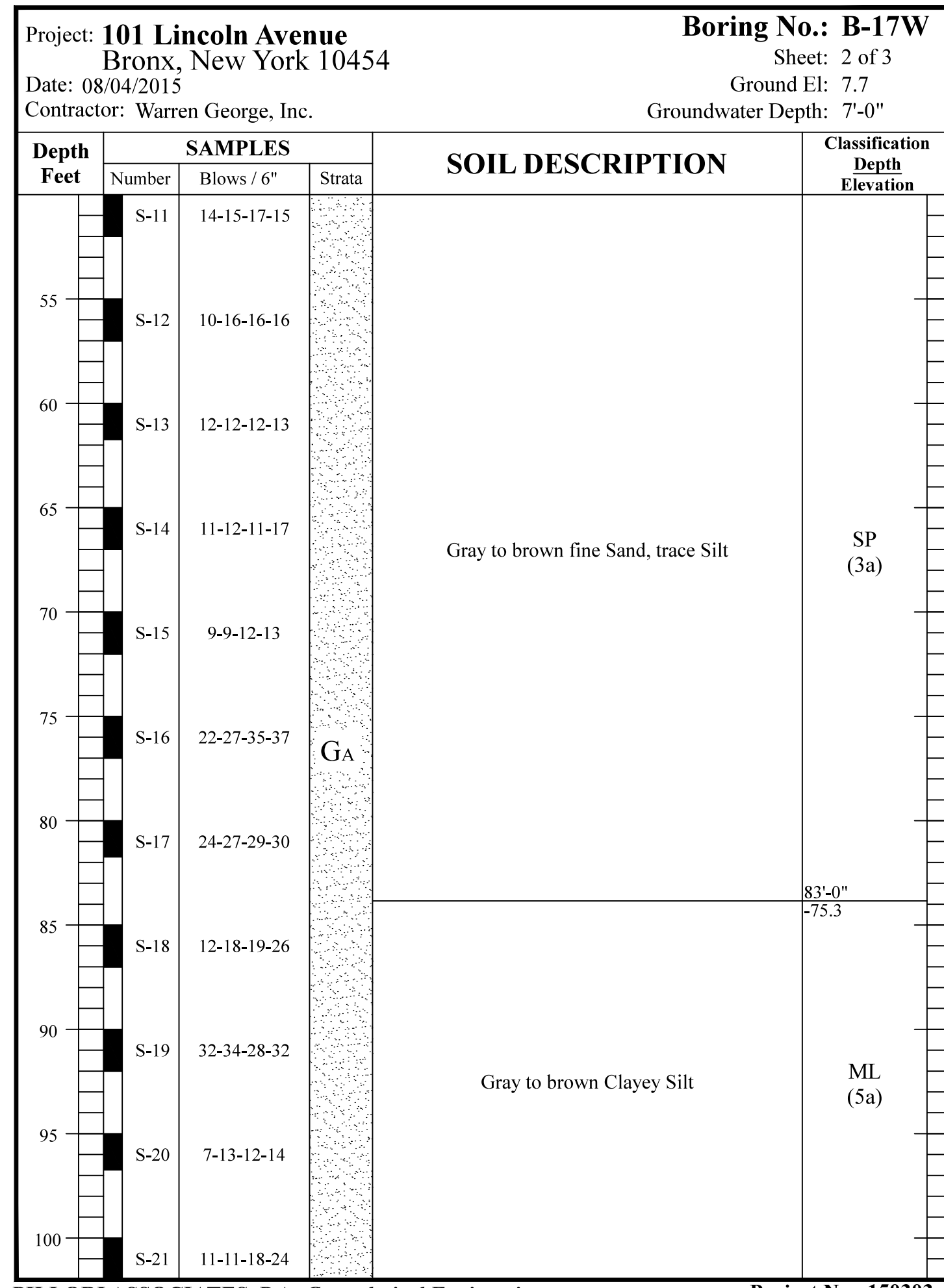
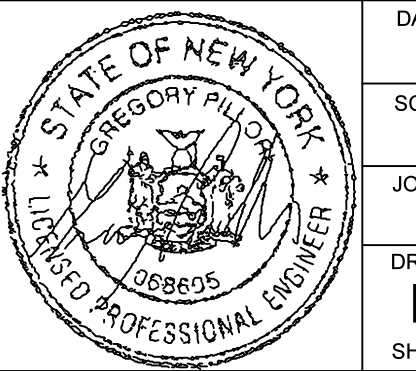
No. DRAWINGS/REVISIONS DATE

DRILL RIG TYPE: TRUCK MOUNTED  
DRILLING METHOD: ROTARY  
SAMPLE HAMMER WEIGHT: 140 LBS.  
CASING HAMMER WEIGHT: 300 LBS.  
CASING DIAMETER: 4"  
SAMPLER DIAMETER: 2"

DRAWING TITLE:  
BORING B-17W PAGES 2 AND 3  
BORING B-18  
BORING B-19 PAGES 1 AND 2

DRAWN: JG CHECKED: ERK REVIEWED: GP

DATE: 10/20/2015  
SCALE: AS NOTED  
JOB NO: 150303  
DRAWING No: B-008.00  
SHEET 8 OF 12



PROJECT NAME:

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DRILL RIG TYPE: TRUCK MOUNTED  
DRILLING METHOD: ROTARY  
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CASING HAMMER WEIGHT: 300 LBS.  
CASING DIAMETER: 4"  
SAMPLER DIAMETER: 2"

DRAWING TITLE:

**BORING B-19 PAGE 3  
BORINGS B-20 AND B-21**

DRAWN: JG CHECKED: ERK REVIEWED: GP

DATE: 10/20/2015

SCALE: AS NOTED

JOB NO: 150303

DRAWING No: **B-009.00**

SHEET 9 OF 12

Project: **101 Lincoln Avenue** Boring No.: **B-19**  
Bronx, New York 10454 Sheet: 3 of 3  
Date: 08/06/2015 to 08/07/2015 Ground El: 7.3  
Contractor: Warren George, Inc. Groundwater Depth: NA

Depth Feet	SAMPLES			SOIL DESCRIPTION	Classification Depth Elevation
	Number	Blows / 6"	Strata		
105	S-18	13-14-18-19	GA	Gray to brown Clayey Silt	ML (5a)
	S-19	12-19-24-27			
	S-20	14-16-23-29			
116'-0"			DR	White decomposed Inwood Marble	116'-0" -108.7
120	S-20	100/1"			
122'-0"			R	White Inwood Marble: Hard, moderately weathered, thinly jointed	122'-0" -114.7
125					
127'-0"				End of Boring	127'-0" -119.7
130					
135					
140					
145					
150					

PILLORI ASSOCIATES, P.A. Geotechnical Engineering Project No.: 150303

Project: **101 Lincoln Avenue** Boring No.: **B-20**  
Bronx, New York 10454 Sheet: 1 of 2  
Date: 08/25/2015 Ground El: 7.4  
Contractor: Warren George, Inc. Groundwater Depth: NA

Depth Feet	SAMPLES			SOIL DESCRIPTION	Classification Depth Elevation
	Number	Blows / 6"	Strata		
5	S-1	9-7-9-6	F	Concrete	FILL (7)
	S-2	5-3-3-5		FILL: Black coarse to fine Sand, little Silt, little medium to fine Gravel with cinders and miscellaneous debris	
10	S-3	4-3-4-2		FILL: Gray Silt and Clay, little medium to fine Gravel with wood and glass fragments	
13'-0"			ES	Gray Silt and Clay with plant fibers and shells	13'-0" -5.6
15	S-4	2-2-2-3			
20	S-5	1-2-1-1	GA	Tan coarse to fine Sand, trace Silt, some fine Gravel	MH (6)
25	S-6	9-7-6-11			
30	S-7	9-7-6-11		Tan medium to fine Sand, trace Silt	
35	S-8	5-7-4-4		Tan coarse to fine Sand, trace Silt	SW (3b)
40	S-9	8-8-9-11		Tan coarse to fine Sand, trace Silt, little fine Gravel	
45	S-10	8-10-9-11		Tan coarse to fine Sand, trace Silt, little fine Gravel	
48'-0"				Gray fine Sand, and Silt	48'-0" -40.6
50	S-11	8-11-12-14			

PILLORI ASSOCIATES, P.A. Geotechnical Engineering Project No.: 150303

Project: **101 Lincoln Avenue** Boring No.: **B-20**  
Bronx, New York 10454 Sheet: 2 of 2  
Date: 08/25/2015 Ground El: 7.4  
Contractor: Warren George, Inc. Groundwater Depth: NA

Depth Feet	SAMPLES			SOIL DESCRIPTION	Classification Depth Elevation
	Number	Blows / 6"	Strata		
55	S-11	8-11-12-14	GA	Gray fine Sand, and Silt	53'-0" -45.6
	S-12	6-9-12-16		Gray fine Sand, trace Silt	
60	S-13	4-9-9-10		Brown medium to fine Sand, trace Silt	SP (3b)
65	S-14	5-13-10-8		Brown coarse to fine Sand, trace Silt	68'-0" -60.6
70	S-15	15-18-15-14		Brown coarse to fine Sand, trace Silt	SW (3a)
75	S-16	13-19-17-20		Gray to Brown Clayey Silt	78'-0" -70.6
80	S-17	13-11-11-11		Gray to Brown Clayey Silt	82'-0" -74.6
85					
90					
95					
100					

PILLORI ASSOCIATES, P.A. Geotechnical Engineering Project No.: 150303

Project: **101 Lincoln Avenue** Boring No.: **B-21**  
Bronx, New York 10454 Sheet: 1 of 3  
Date: 08/10/2015 to 08/12/2015 Ground El: 7.5  
Contractor: Warren George, Inc. Groundwater Depth: NA

Depth Feet	SAMPLES			SOIL DESCRIPTION	Classification Depth Elevation
	Number	Blows / 6"	Strata		
5	S-1	8-23-21-9	F	Concrete	FILL (7)
	S-2	3-2-2-1		FILL: Brown fine Sand, little Silt, little fine Gravel with miscellaneous debris	
10	S-3	10-5-13-15		Boulders & cobbles	
13'-0"			GA	Tan coarse to fine Sand, trace fine Gravel	13'-0" -5.5
15	S-4	8-9-3-7			
18'-0"			GA	Tan fine Sand, trace Silt	18'-0" -10.5
20	S-5	6-6-8-7			
25	S-6	3-6-9-70		Tan fine Sand, trace Silt	SP (3b)
30	S-7	4-5-4-6		Gray to brown Clayey Silt	33'-0" -25.5
35	S-8	9-10-11-15		Gray to brown Clayey Silt	ML (5b)
38'-0"			GA	Grayish brown fine Sand, trace Silt	38'-0" -30.5
40	S-9	9-16-18-22			
45	S-10	10-13-13-15		Grayish brown fine Sand, trace Silt	SP (3a)
50	S-11	12-16-17-18		Grayish brown fine Sand, trace Silt	SP (3a)

PILLORI ASSOCIATES, P.A. Geotechnical Engineering Project No.: 150303

Project: **101 Lincoln Avenue** Boring No.: **B-21**  
Bronx, New York 10454 Sheet: 2 of 3  
Date: 08/10/2015 to 08/12/2015 Ground El: 7.5  
Contractor: Warren George, Inc. Groundwater Depth: NA

Depth Feet	SAMPLES			SOIL DESCRIPTION	Classification Depth Elevation
	Number	Blows / 6"	Strata		
55	S-11	12-16-17-18	GA	Grayish brown fine Sand, trace Silt	53'-0" -45.5
	S-12	9-12-16-16		Gray to brown Clayey Silt	ML (5a)
60	S-13	14-15-17-19		Gray fine Sand, trace Silt	SP (3a)
63'-0"			GA	Gray to brown Clayey Silt	63'-0" -55.5
65	S-14	19-16-12-10			
68'-0"			GA	Gray to brown medium to fine Sand, trace Silt	68'-0" -60.5
70	S-15	6-8-12-10			
75	S-16	22-26-27-41		Gray to brown medium to fine Sand, trace Silt	SP (3a)
80	S-17	19-18-15-15		Gray to brown Clayey Silt	83'-0" -75.5
85	S-18	15-17-26-23		Gray to brown Clayey Silt	ML (5a)
90	S-19	8-9-12-14		Gray to brown Clayey Silt	93'-0" -85.5
95	S-20	6-8-9-11		Gray to brown Clayey Silt	ML (5b)
100	S-21	5-6-6-7		Grayish brown fine Sand, trace Silt	SP (3a)

PILLORI ASSOCIATES, P.A. Geotechnical Engineering Project No.: 150303

Project: **101 Lincoln Avenue** Boring No.: **B-21**  
Bronx, New York 10454 Sheet: 3 of 3  
Date: 08/10/2015 to 08/12/2015 Ground El: 7.5  
Contractor: Warren George, Inc. Groundwater Depth: NA

Depth Feet	SAMPLES			SOIL DESCRIPTION	Classification Depth Elevation
	Number	Blows / 6"	Strata		
105	S-21	5-6-6-7	GA	Alternating layers of Gray fine Sand and Brown Clayey Silt	103'-0" -95.5
	S-22	15-17-18-23		Tan medium to fine Sand, trace Silt	SP/MH (3a/5a)
110	S-23	50/0"			Tan medium to fine Sand, trace Silt
115			DR	Decomposed Rock	115'-0" -100.5
120					
125			R	White Inwood Marble	145'-0" -137.5
130					
135					
140					
145					
150				End of Boring	150'-0" -142.5

PILLORI ASSOCIATES, P.A. Geotechnical Engineering Project No.: 150303



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No. DRAWINGS/REVISIONS DATE

DRILL RIG TYPE: TRUCK MOUNTED  
DRILLING METHOD: ROTARY  
SAMPLE HAMMER WEIGHT: 140 LBS.  
CASING HAMMER WEIGHT: 300 LBS.  
CASING DIAMETER: 4"  
SAMPLER DIAMETER: 2"

DRAWING TITLE:

BORINGS B-22 TO B-24

DRAWN: JG CHECKED: ERK REVIEWED: GP

DATE: 10/20/2015

SCALE: AS NOTED

JOB NO: 150303

DRAWING No: B-010.00

SHEET 10 OF 12

Project: **101 Lincoln Avenue** Boring No.: **B-22**  
Bronx, New York 10454 Sheet: 1 of 2  
Date: 08/14/2015 Ground El: 7.0  
Contractor: Warren George, Inc. Groundwater Depth: NA

Depth Feet	SAMPLES			SOIL DESCRIPTION	Classification Depth Elevation
	Number	Blows / 6"	Strata		
0-5	S-1	12-8-6-7		11" Concrete	
5-10	S-2	4-3-3-3	F	FILL: Black to tan medium to fine Sand, little Silt with asphalt fragments	FILL (7)
10-15	S-3	2-2-2-2			
15-20	S-4	17-6-6-7		FILL: Timber fragments	
20-25	S-5	WOH-4-8-9	E <sub>S</sub>	Dark gray Silt and Clay with plant fibers	MH (6)
25-30	S-6	7-10-10-9		Black medium to fine Sand, trace to little Silt	SP-SM (3b)
30-35	S-7	10-12-12-10		Tan fine Sand, trace Silt	SP (3b)
35-40	S-8	6-6-9-13	G <sub>A</sub>	Alternating layers of Red-brown Silt, and Gray fine Sand	ML (5b)
40-45	S-6	7-12-13-11		Tan medium to fine Sand, trace Silt	SP (3b)
45-50	S-7	4-7-9-12		Gray fine Sand, trace Silt	SP (3b)

PILLORI ASSOCIATES, P.A. Geotechnical Engineering Project No.: 150303

Project: **101 Lincoln Avenue** Boring No.: **B-22**  
Bronx, New York 10454 Sheet: 2 of 2  
Date: 08/14/2015 Ground El: 7.0  
Contractor: Warren George, Inc. Groundwater Depth: NA

Depth Feet	SAMPLES			SOIL DESCRIPTION	Classification Depth Elevation
	Number	Blows / 6"	Strata		
55-60	S-8	9-10-15-17		Gray fine Sand, trace Silt	SP (3b)
60-65	S-9	9-10-14-15		Red-brown fine Sand, some Silt	SM (3b)
65-70	S-10	6-7-9-9		Gray medium to fine Sand, trace Silt	SP (3b)
70-75	S-11	7-10-11-14	G <sub>A</sub>	Gray fine Sand, trace Silt	SP (3b)
75-80	S-12	18-14-14-14		Gray coarse to fine Sand, trace Silt	SW (3b)
80-85	S-13	10-12-17-18		Brown medium to fine Sand, trace Silt	SP (3b)
85-90	S-14	9-10-12-12		Gray to red-brown Clayey Silt	ML (5b)
90-95				End of Boring	

PILLORI ASSOCIATES, P.A. Geotechnical Engineering Project No.: 150303

Project: **101 Lincoln Avenue** Boring No.: **B-23**  
Bronx, New York 10454 Sheet: 1 of 2  
Date: 08/26/2015 Ground El: 7.2  
Contractor: Warren George, Inc. Groundwater Depth: NA

Depth Feet	SAMPLES			SOIL DESCRIPTION	Classification Depth Elevation
	Number	Blows / 6"	Strata		
5-10	S-1	WOR-0-0-0	F	Concrete	
10-15	S-2	1-0-4-5		FILL: Brown fine Sand, little Silt, little fine Gravel with miscellaneous debris	FILL (7)
15-20	S-3	2-2-1-1		Boulders and cobbles	
20-25	S-4	WOH-0-0-0		Dark gray Silt and Clay	MH (6)
25-30	S-5	3-11-17-20	E <sub>S</sub>	Gray fine Sand, some Silt	SM (6)
30-35	S-6	7-14-16-21		Brown fine Sand, little Silt, little fine Gravel	SP (3b)
35-40	S-7	14-11-13-12	G <sub>A</sub>	Brown fine Sand, little to some Silt	SM (3b)
40-45	S-8	6-6-10-11			
45-50	S-9	9-11-11-18			
50-55	S-10	6-8-12-15			

PILLORI ASSOCIATES, P.A. Geotechnical Engineering Project No.: 150303

Project: **101 Lincoln Avenue** Boring No.: **B-23**  
Bronx, New York 10454 Sheet: 2 of 2  
Date: 08/26/2015 Ground El: 7.2  
Contractor: Warren George, Inc. Groundwater Depth: NA

Depth Feet	SAMPLES			SOIL DESCRIPTION	Classification Depth Elevation
	Number	Blows / 6"	Strata		
55-60	S-10	6-8-12-15		Brown fine Sand, little to some Silt	SM (3b)
60-65	S-11	7-9-11-10			
65-70	S-12	7-6-10-12			
70-75	S-13	9-10-15-18	G <sub>A</sub>	Brown coarse to fine Sand, trace Silt	SW (3a)
75-80	S-14	15-16-16-22		Brown fine Sand, trace Silt	SP (3a)
80-85	S-15	11-12-18-31			
85-90	S-16	15-27-32-32		End of Boring	

PILLORI ASSOCIATES, P.A. Geotechnical Engineering Project No.: 150303

Project: **101 Lincoln Avenue** Boring No.: **B-24**  
Bronx, New York 10454 Sheet: 1 of 2  
Date: 08/24/2015 Ground El: 7.5  
Contractor: Warren George, Inc. Groundwater Depth: NA

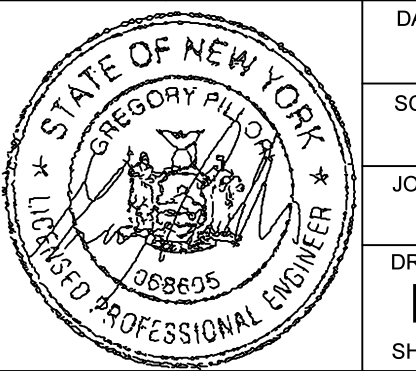
Depth Feet	SAMPLES			SOIL DESCRIPTION	Classification Depth Elevation
	Number	Blows / 6"	Strata		
5-10	S-1	16-15-12-11		Concrete	
10-15	S-2	3-5-4-5	F	FILL: Brown fine Sand, little Silt, little fine Gravel with miscellaneous debris	FILL (7)
15-20	S-3	3-2-2-1		FILL: Gray Silt and Clay with wood and brick fragments	
20-25	S-4	1-3-3-3			
25-30	S-5	3-1-0-1		Gray Silt and Clay with shells	MH (6)
30-35	S-6	WOH-0-1-1	E <sub>S</sub>		
35-40	S-7	8-23-27-16		Tan coarse to fine Sand, little Silt, little fine Gravel	SM (3a)
40-45	S-8	9-15-17-19			
45-50	S-9	8-9-11-10	G <sub>A</sub>	Light gray medium to fine Sand, trace Silt	SM (3b)
50-55	S-10	11-12-14-16		Reddish brown fine Sand, little Silt	SM (3b)
55-60	S-11	9-13-16-21			

PILLORI ASSOCIATES, P.A. Geotechnical Engineering Project No.: 150303

Project: **101 Lincoln Avenue** Boring No.: **B-24**  
Bronx, New York 10454 Sheet: 2 of 2  
Date: 08/24/2015 Ground El: 7.5  
Contractor: Warren George, Inc. Groundwater Depth: NA

Depth Feet	SAMPLES			SOIL DESCRIPTION	Classification Depth Elevation
	Number	Blows / 6"	Strata		
55-60	S-11	9-13-16-21		Red-brown fine Sand, little Silt	SM (3b)
60-65	S-12	6-12-14-21		Brown medium to fine Sand, trace Silt	SP (3b)
65-70	S-13	8-17-13-18			
70-75	S-14	15-10-14-21	G <sub>A</sub>	Brown coarse to fine Sand, trace Silt	SW (3a)
75-80	S-15	15-27-34-38		Gray coarse to fine Sand, little Silt, trace fine Gravel	SM (3a)
80-85	S-16	13-20-28-40		Gray to brown Clayey Silt	ML (5a)
85-90	S-17	10-24-19-23		End of Boring	

PILLORI ASSOCIATES, P.A. Geotechnical Engineering Project No.: 150303



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CLIENT NAME:

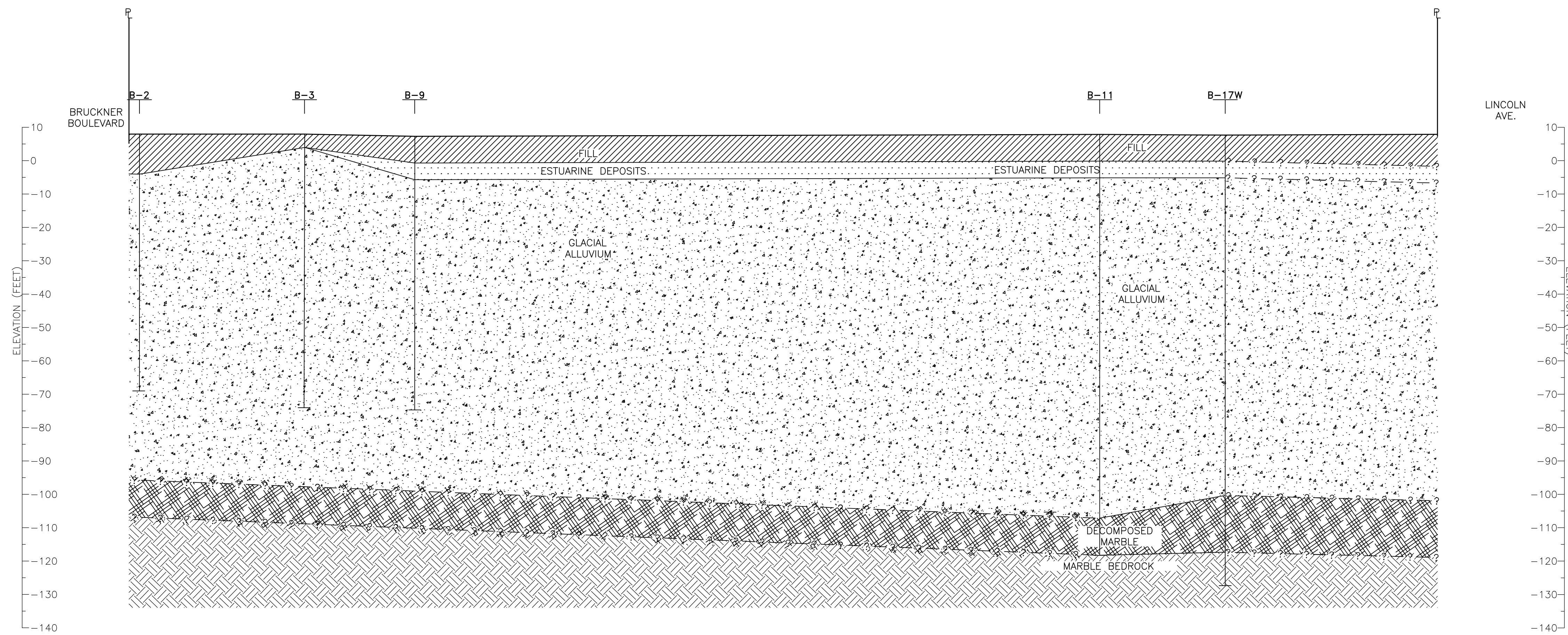
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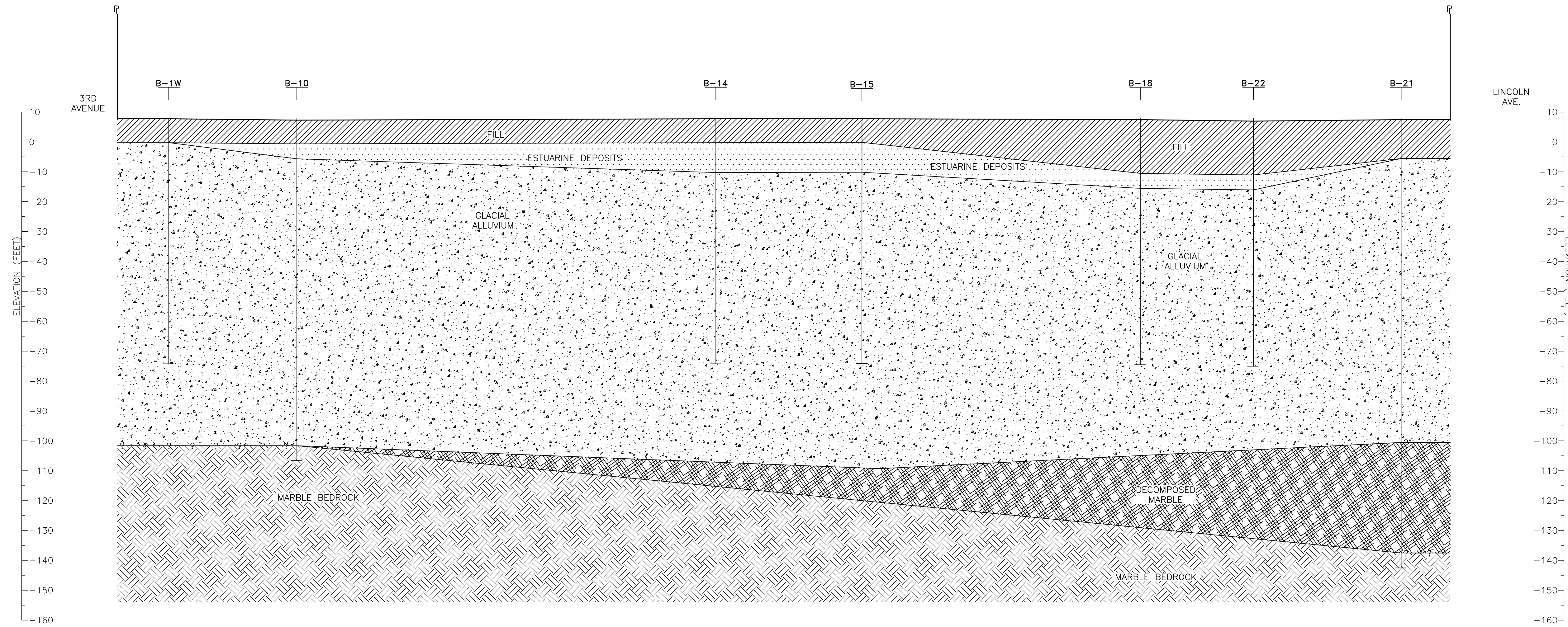
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SUBSURFACE SECTION - AA  
SCALE: 1" = 20'



SUBSURFACE SECTION - BB  
SCALE: 1" = 20'

No.	DRAWINGS/REVISIONS	DATE

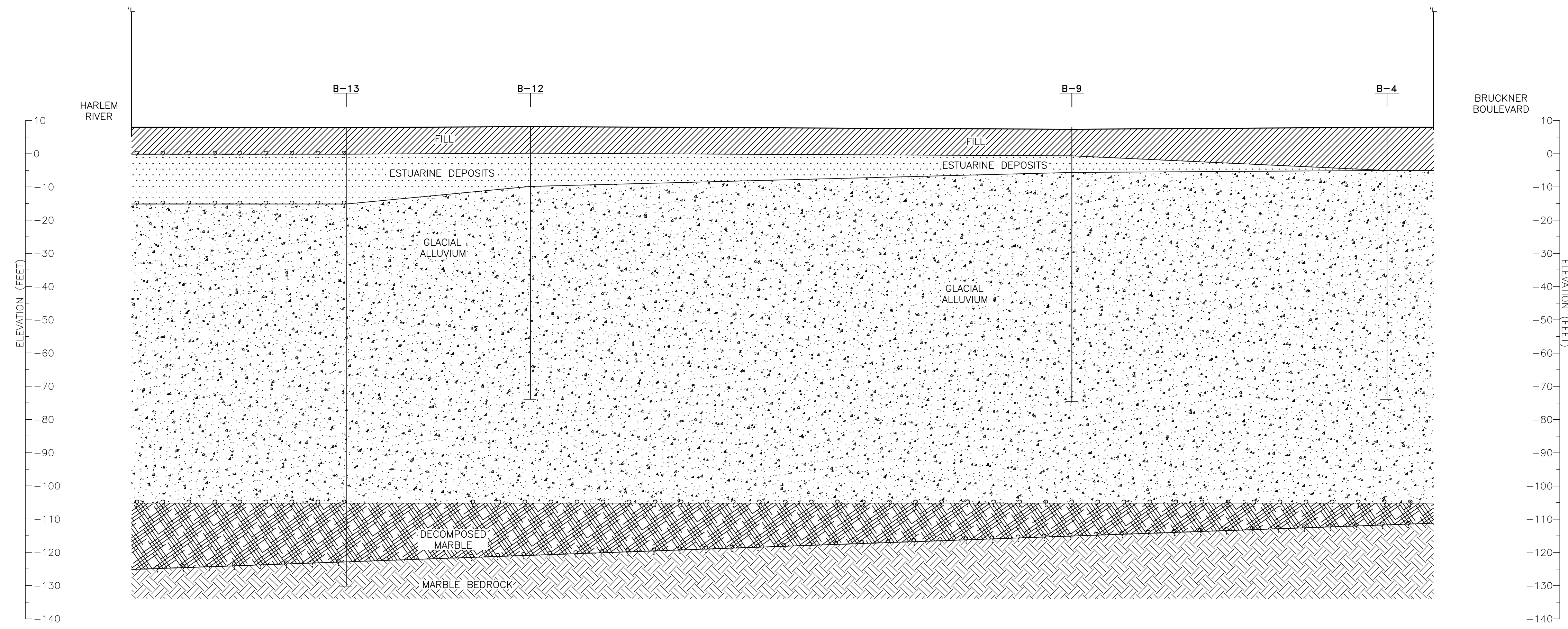
DRILL RIG TYPE: TRUCK MOUNTED  
 DRILLING METHOD: ROTARY  
 SAMPLE HAMMER WEIGHT: 140 LBS.  
 CASING HAMMER WEIGHT: 300 LBS.  
 CASING DIAMETER: 4"  
 SAMPLER DIAMETER: 2"

DRAWING TITLE:  
**SUBSURFACE SECTIONS**

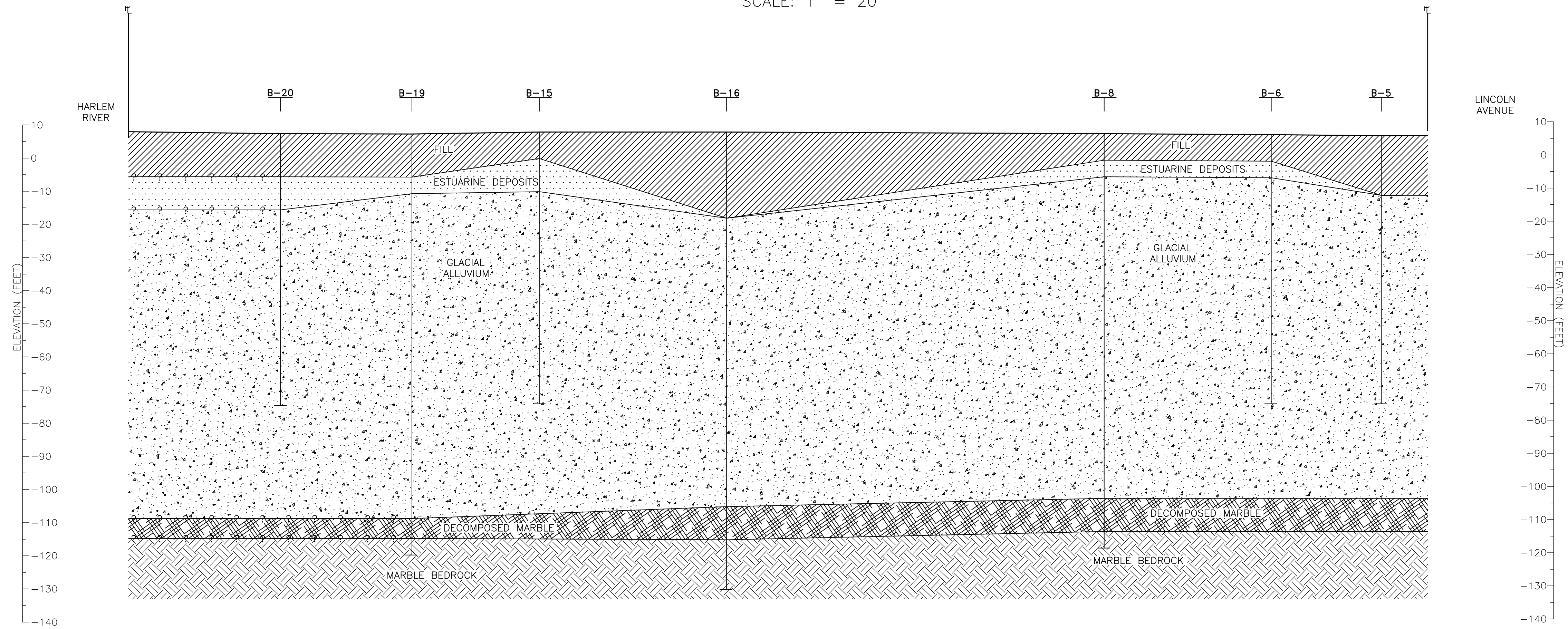
DRAWN: JGS	CHECKED: ERK	REVIEWED: GP
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DATE: 10/08/2015
SCALE: AS NOTED
JOB NO: 150303
DRAWING NO: B-011.00
SHEET 11 OF 12





SUBSURFACE SECTION - CC  
SCALE: 1" = 20'



SUBSURFACE SECTION - DD  
SCALE: 1" = 20'

PROJECT NAME:

101 LINCOLN AVENUE  
BRONX, NEW YORK

CLIENT NAME:

NY DEVELOPERS & MANAGEMENT  
1825 65TH STREET  
BROOKLYN, NEW YORK

GEOTECHNICAL ENGINEER:

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Geotechnical Engineering

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email: office@pilloriassociates.com

No.	DRAWINGS/REVISIONS	DATE

DRILL RIG TYPE: TRUCK MOUNTED  
DRILLING METHOD: ROTARY  
SAMPLE HAMMER WEIGHT: 140 LBS.  
CASING HAMMER WEIGHT: 300 LBS.  
CASING DIAMETER: 4"  
SAMPLER DIAMETER: 2"

DRAWING TITLE:  
**SUBSURFACE SECTIONS**

DRAWN: JG	CHECKED: ERK	REVIEWED: GP
DATE: 10/08/2015		SCALE: AS NOTED
JOB NO: 150303		DRAWING No. B-012.00
SHEET 12 OF 12		

