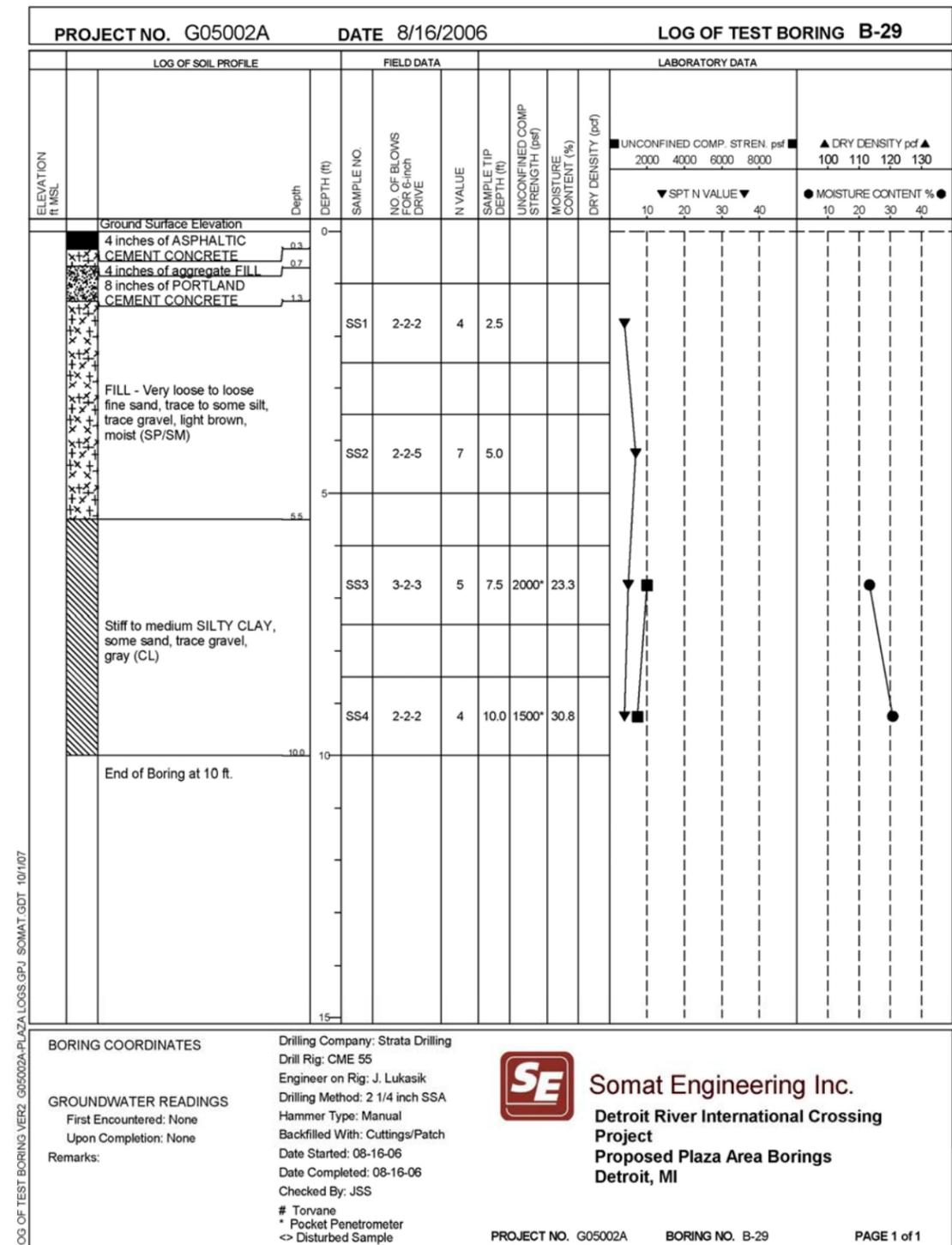
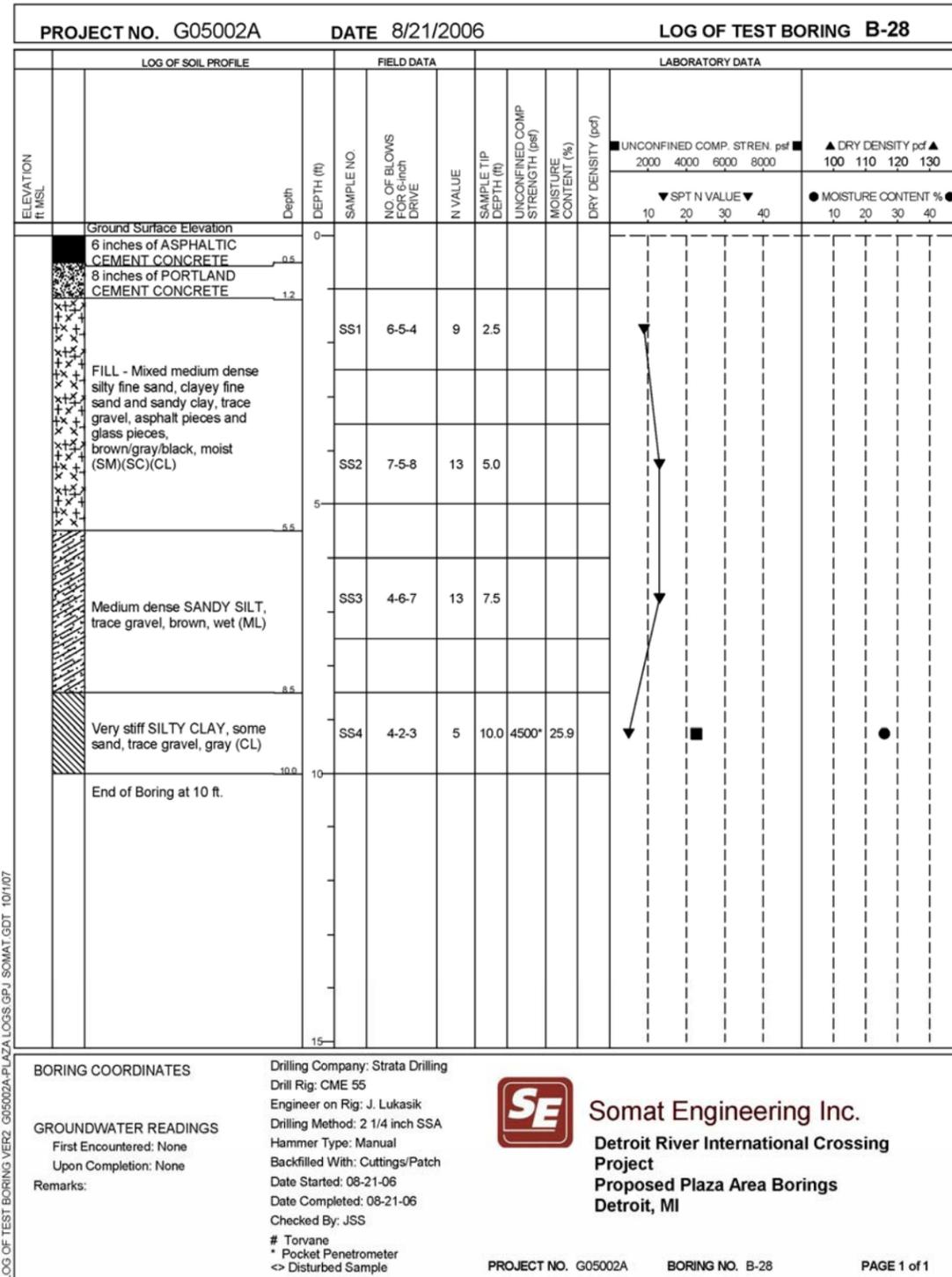
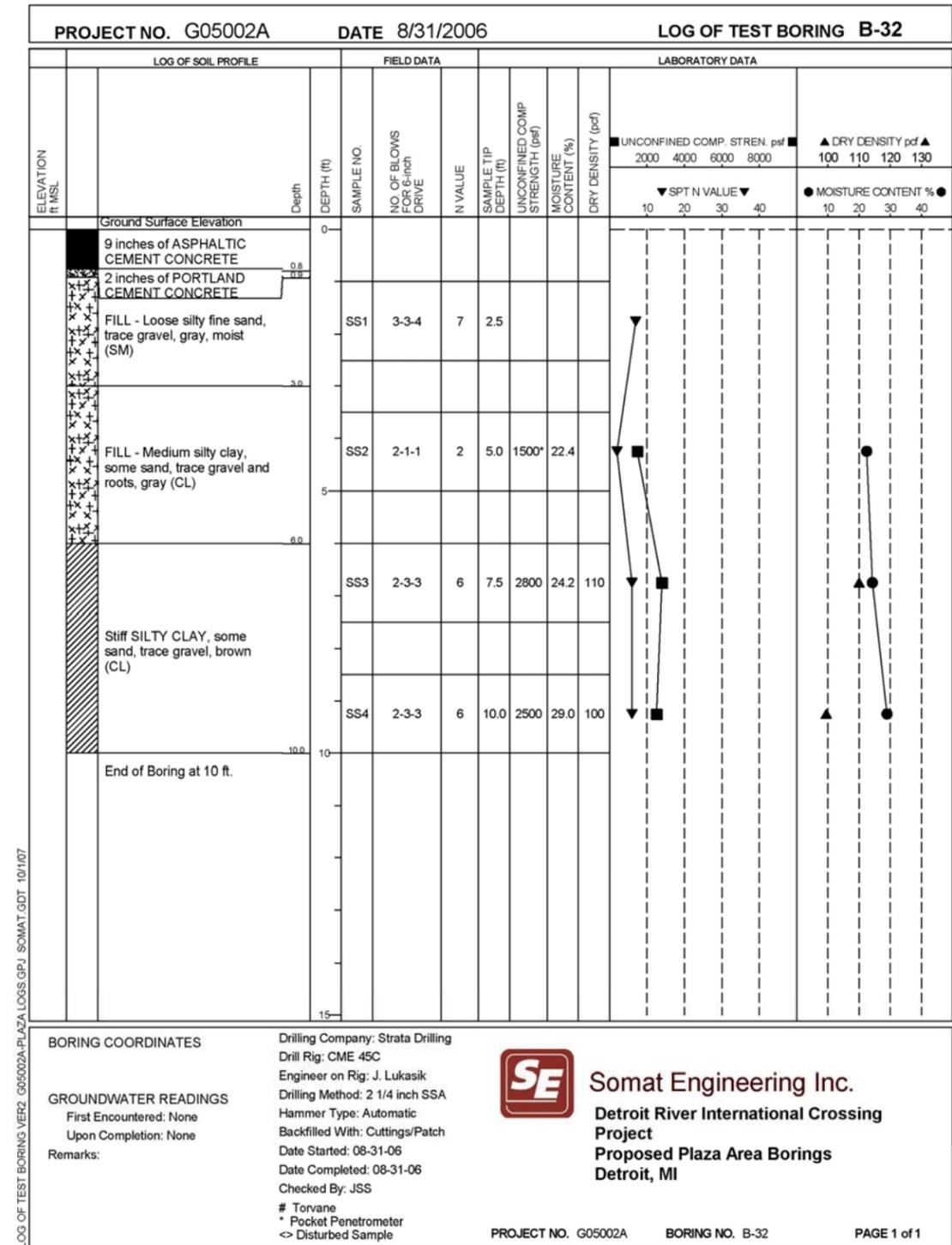
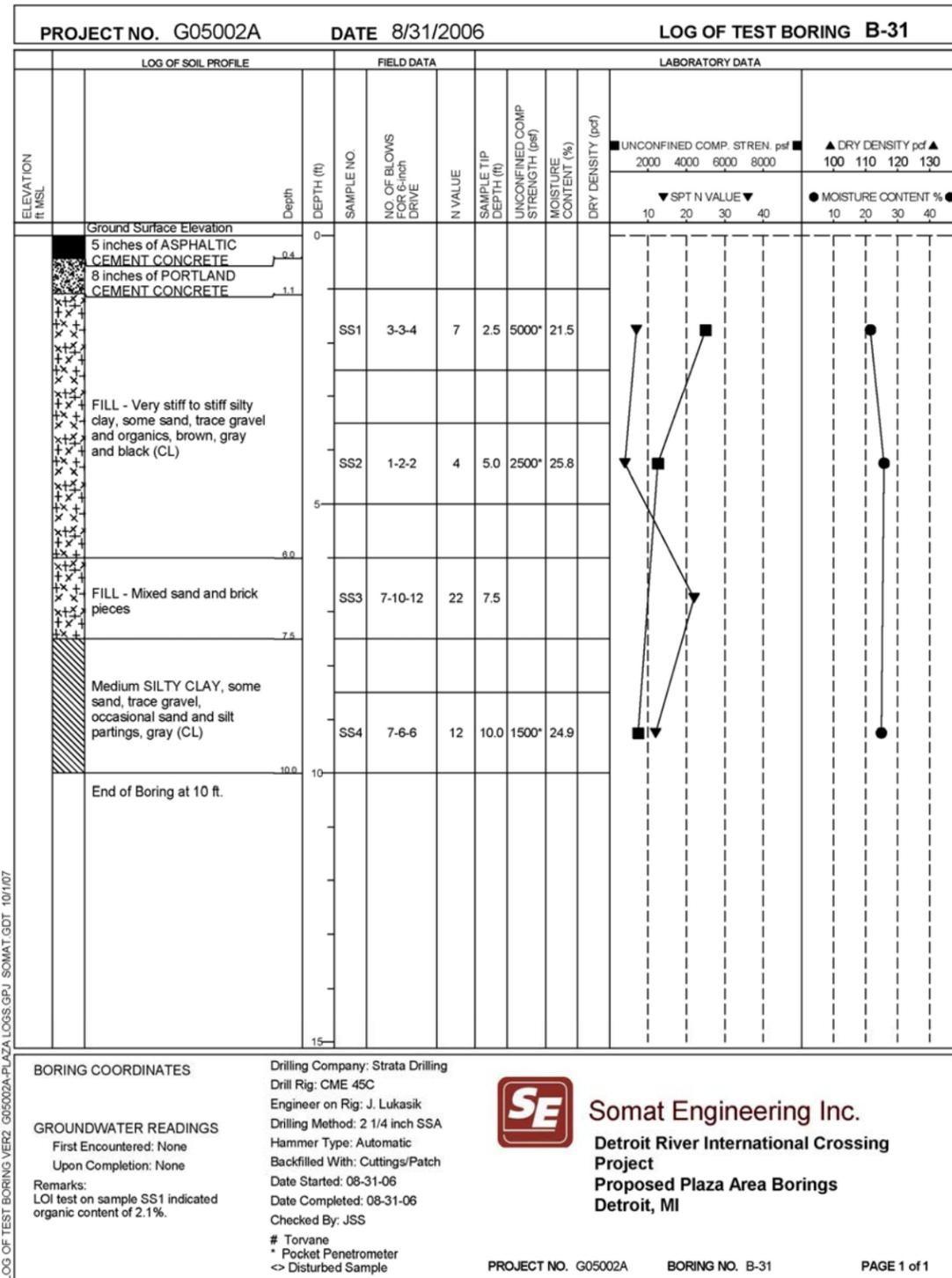
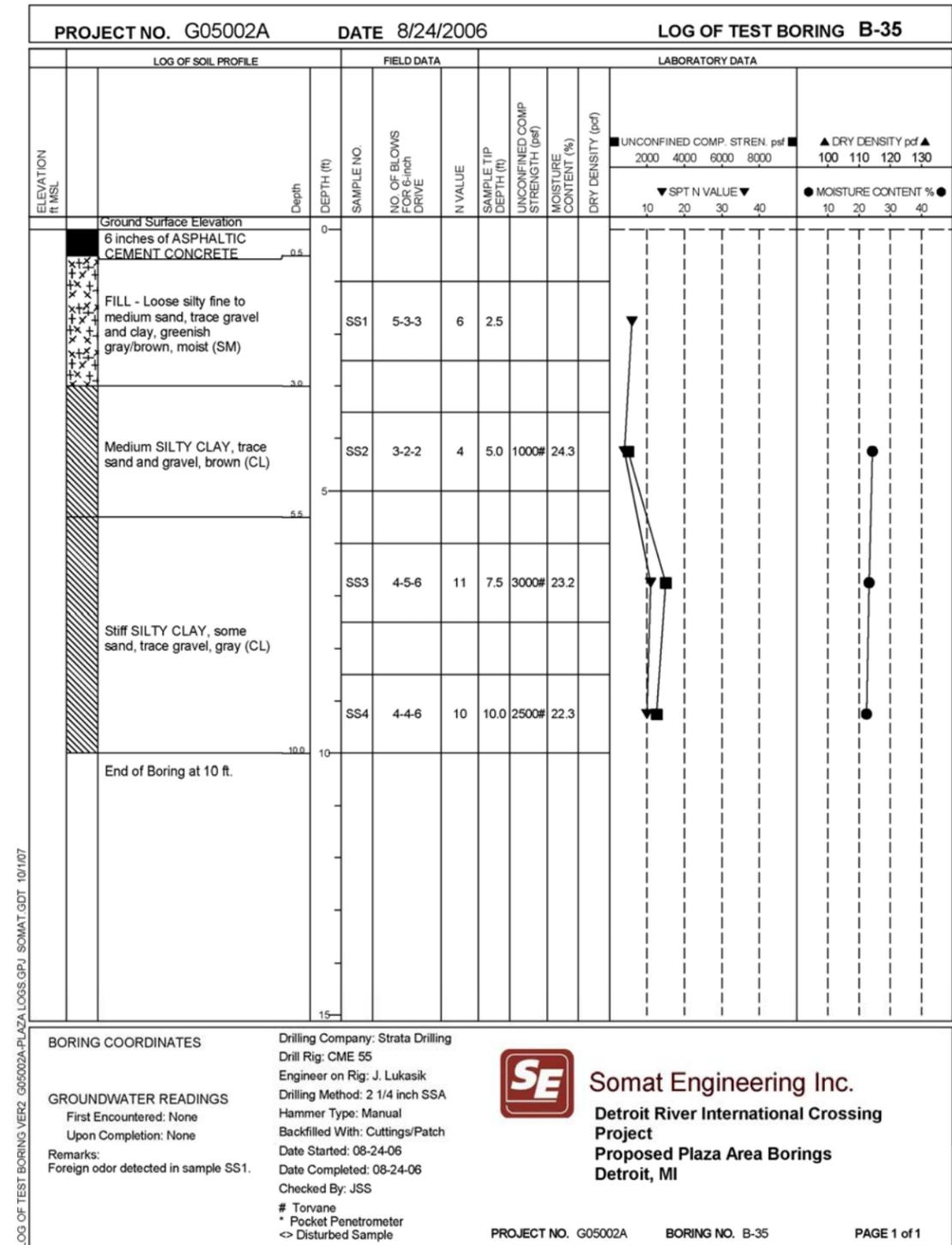
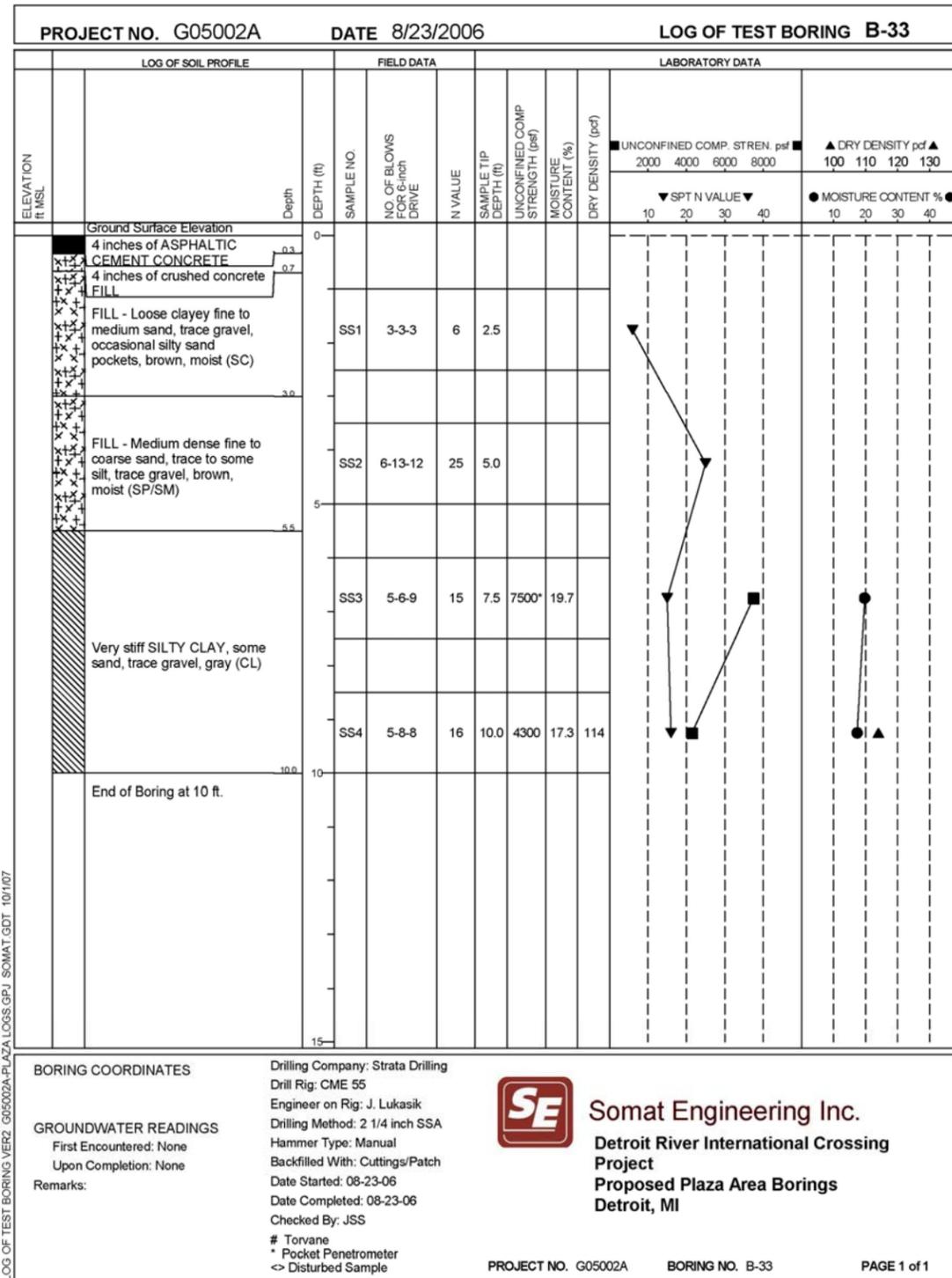
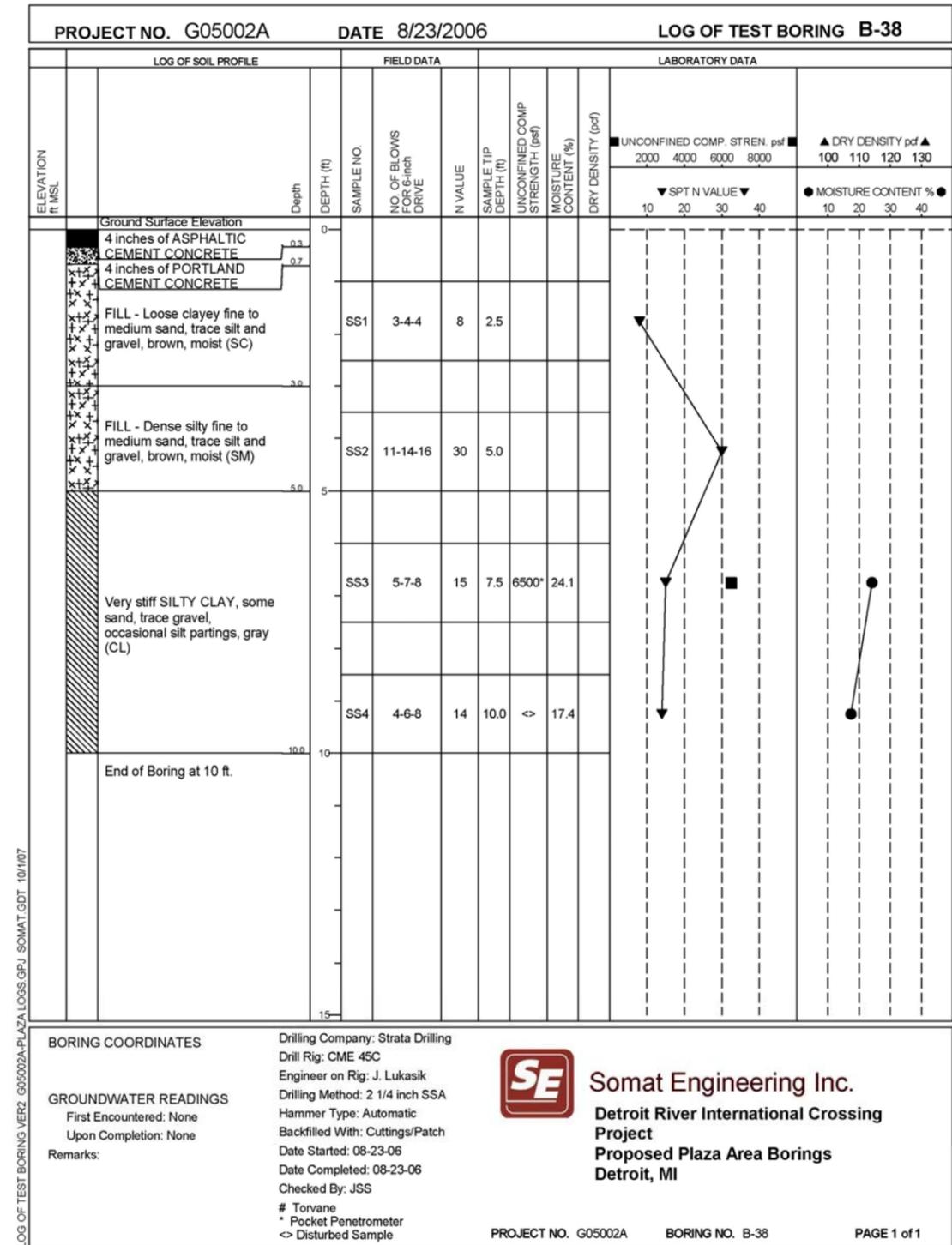
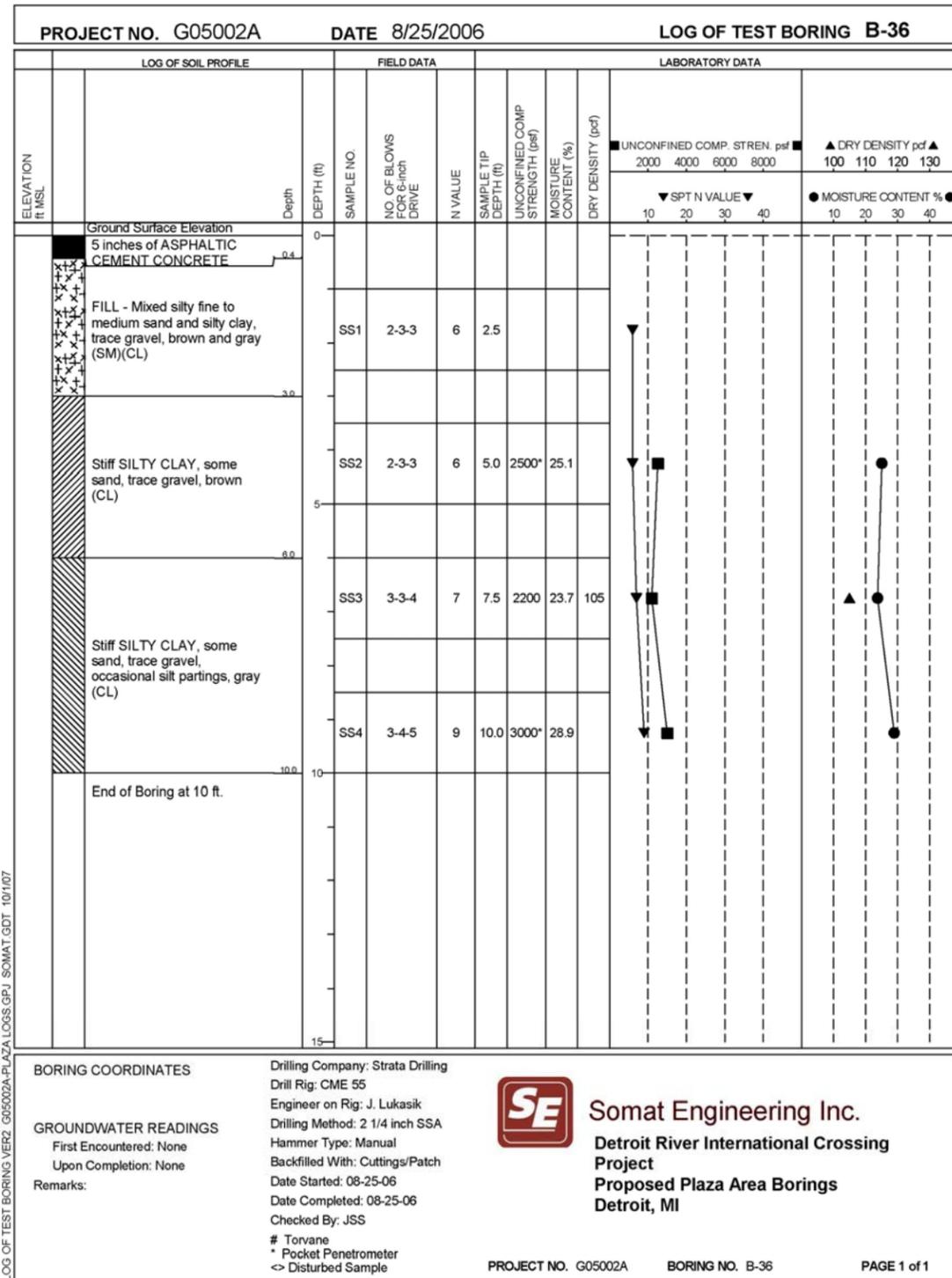


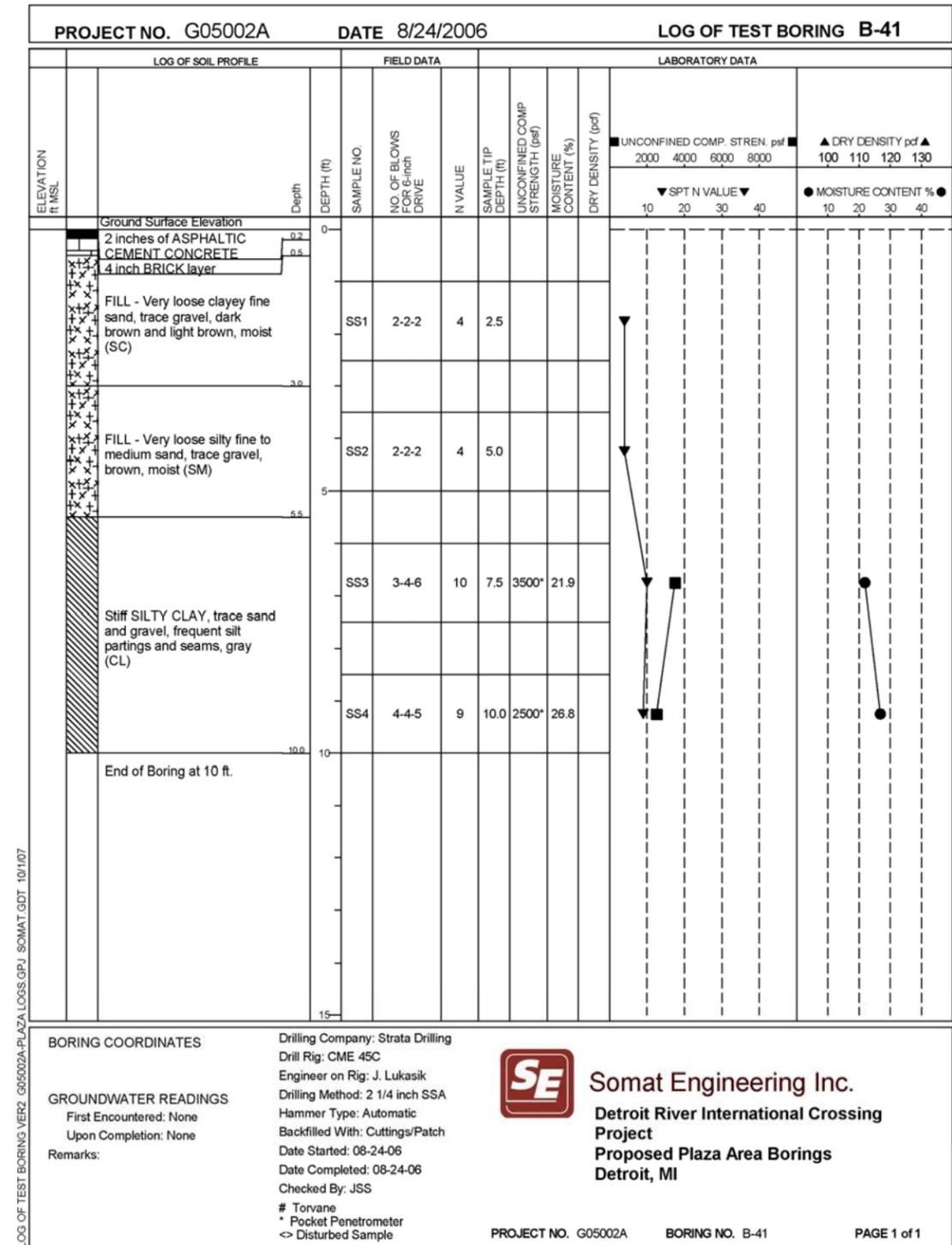
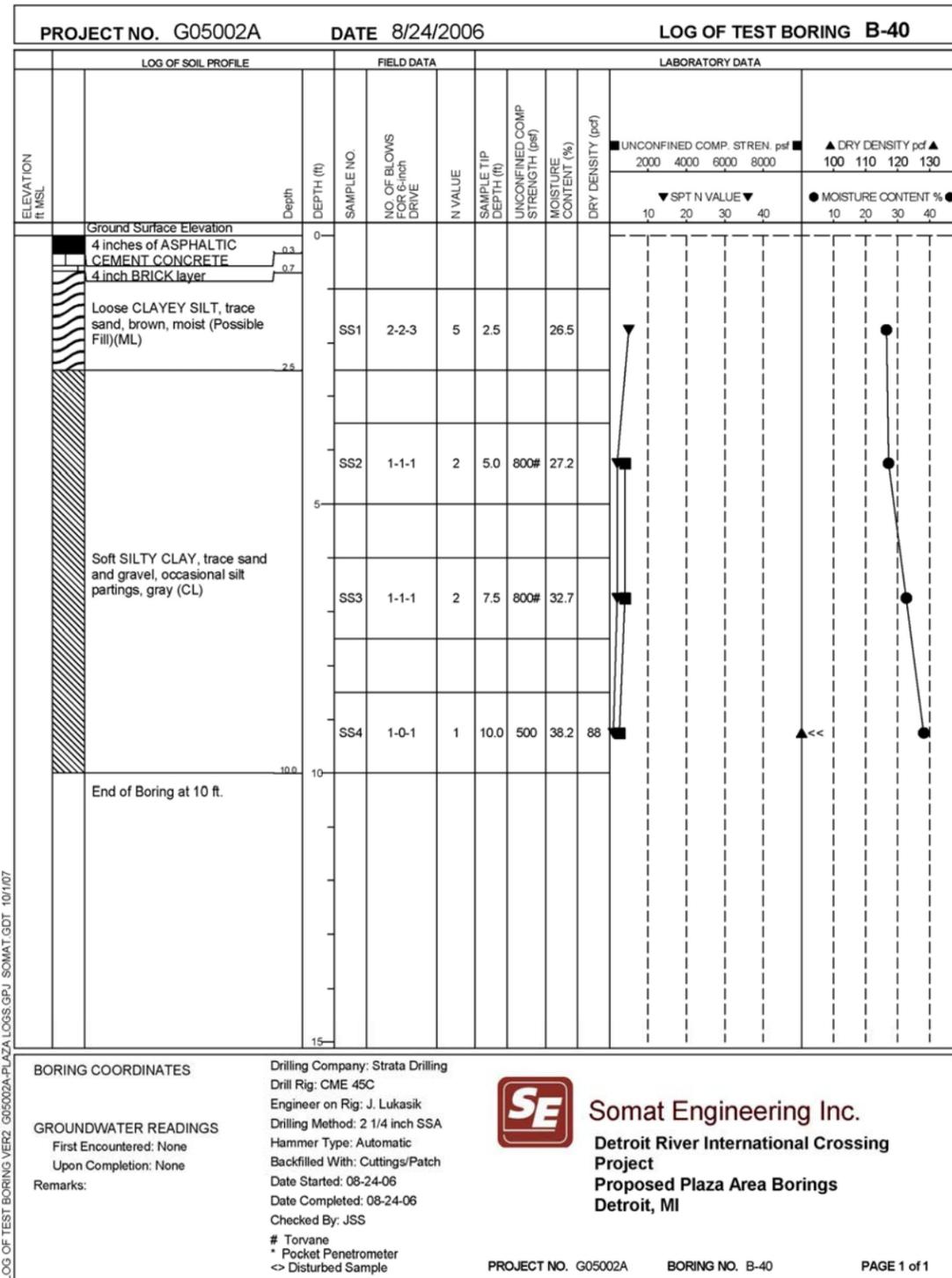
APPENDIX F GEOTECHNICAL

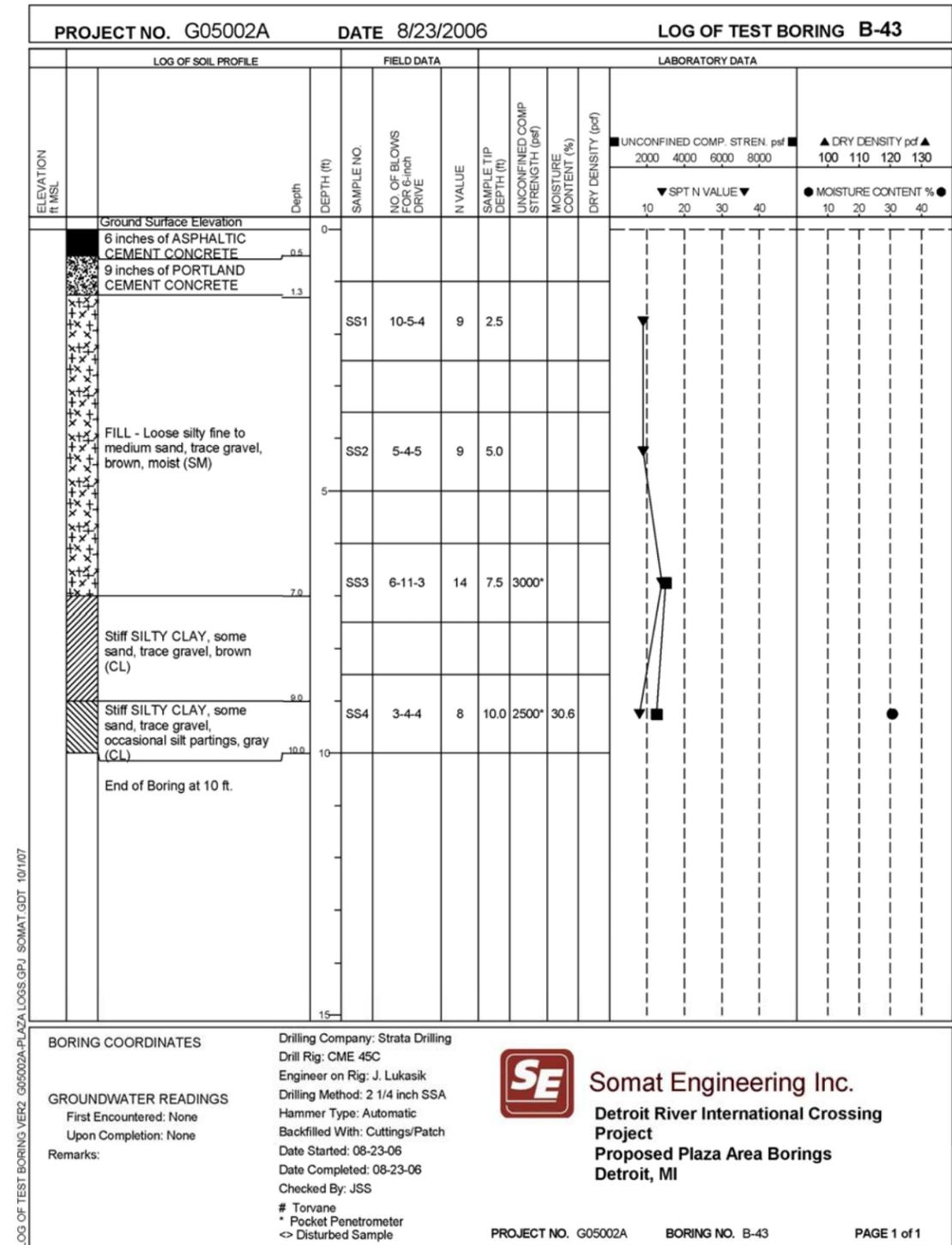
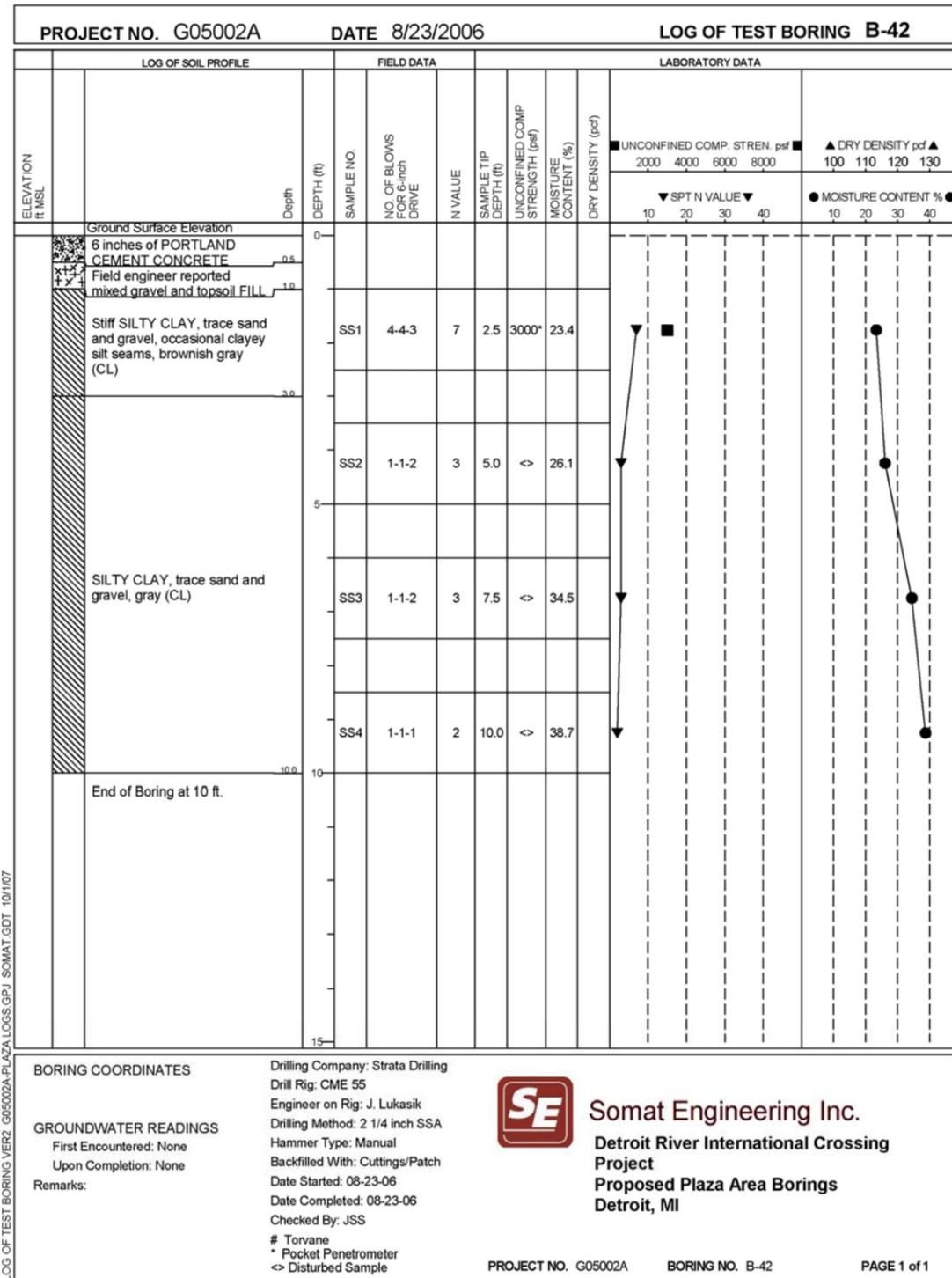


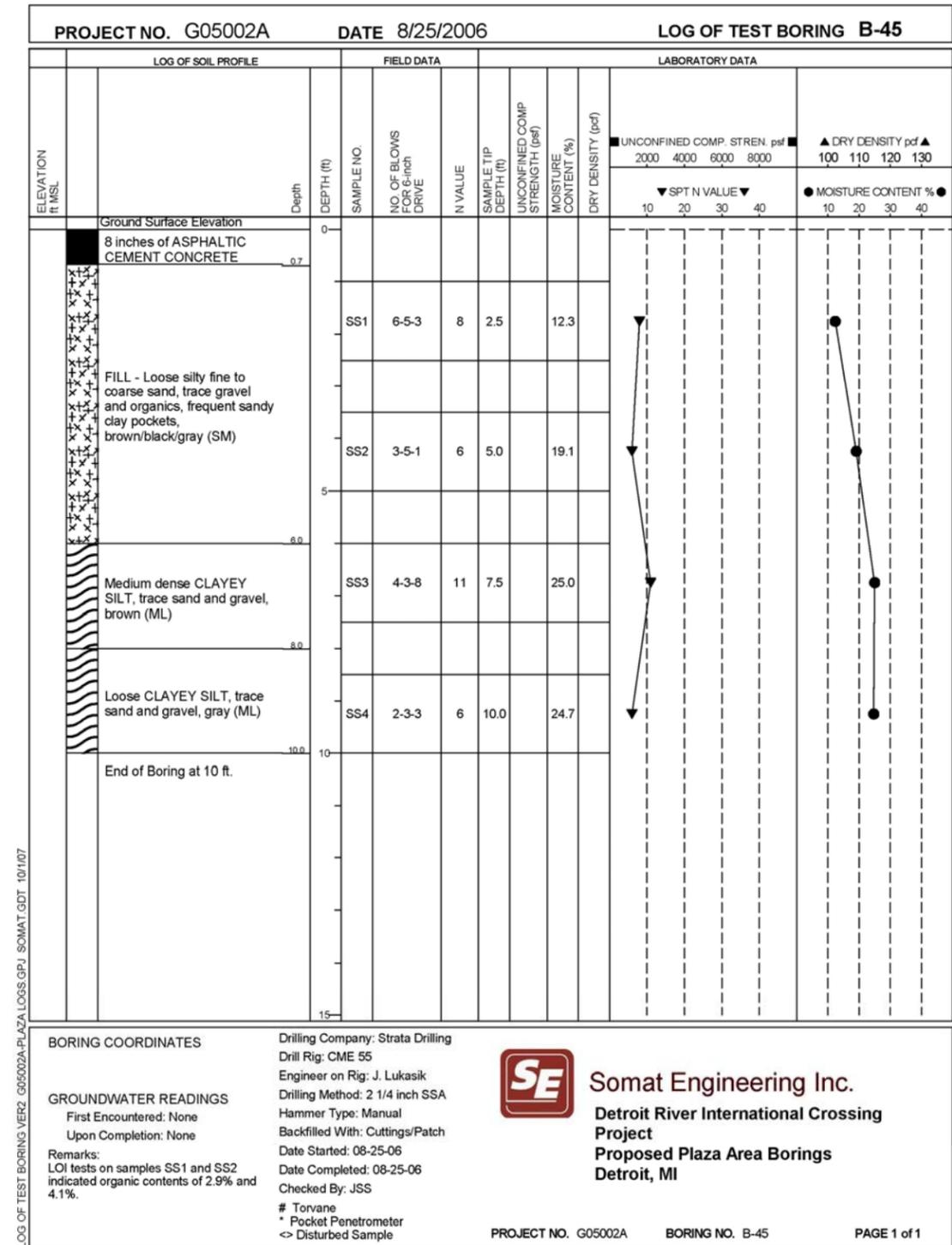
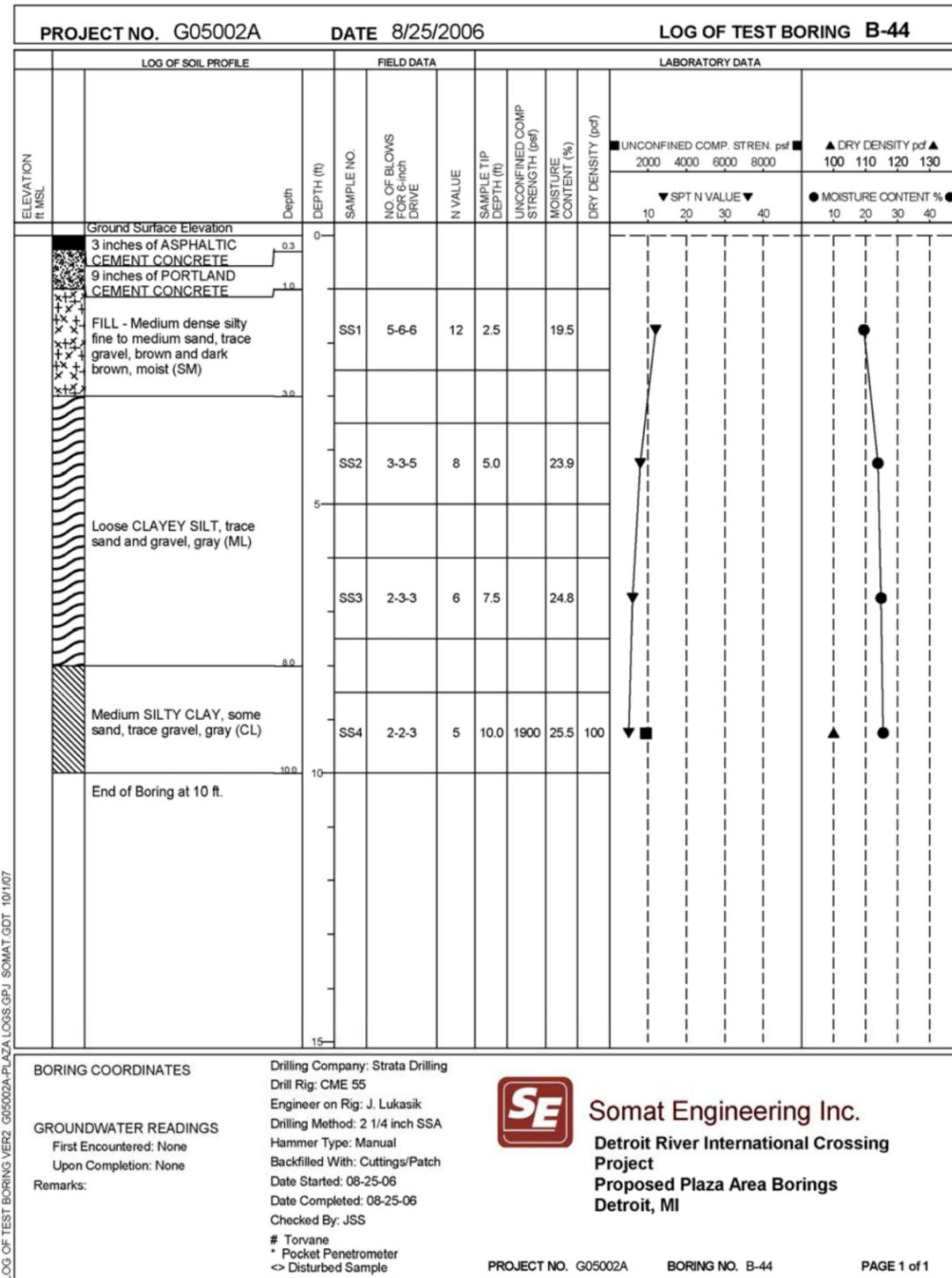


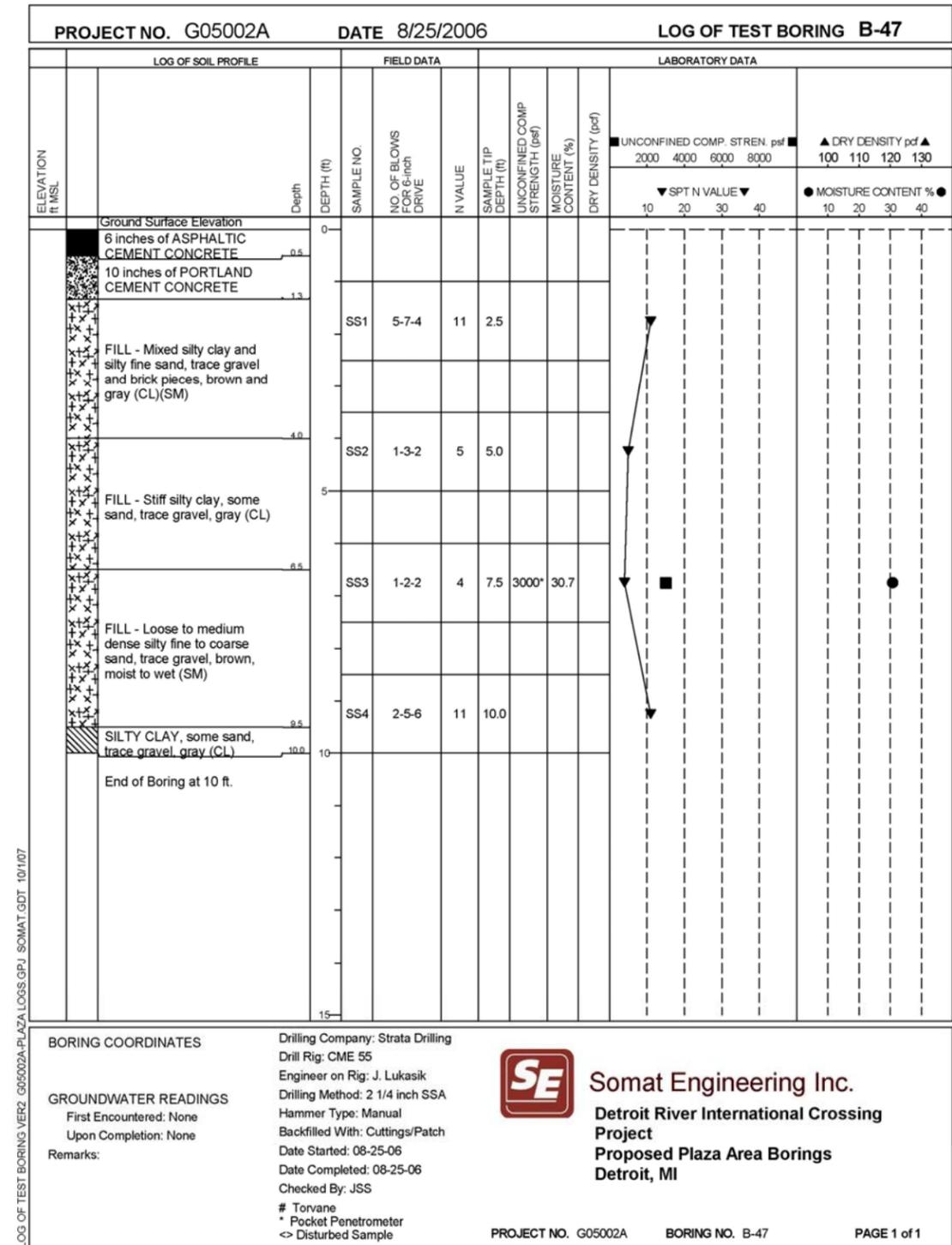
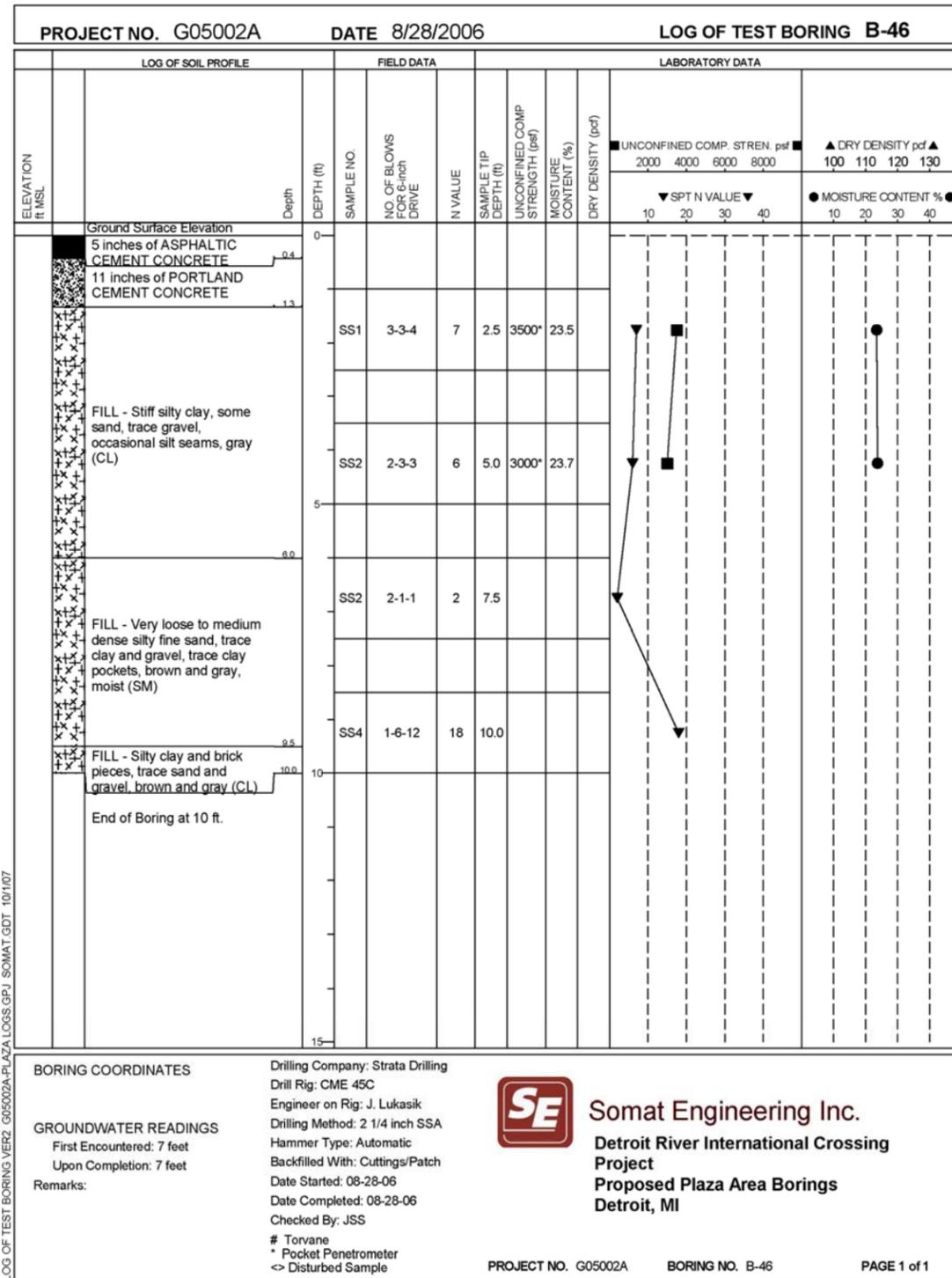












PROJECT NO. G05002A		DATE 8/22/2006		LOG OF TEST BORING B-48															
LOG OF SOIL PROFILE		FIELD DATA				LABORATORY DATA													
ELEVATION ft. MSL	Depth DEPTH (ft)	SAMPLE NO.	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	UNCONFINED COMP. STREN. psf				▲ DRY DENSITY pcf ▲						
									2000	4000	6000	8000	100	110	120	130			
									▼ SPT N VALUE ▼				● MOISTURE CONTENT % ●						
									10	20	30	40	10	20	30	40			
	Ground Surface Elevation																		
	6 inches of ASPHALTIC CEMENT CONCRETE																		
	5 inches of PORTLAND CEMENT CONCRETE																		
	FILL - Medium dense silty fine to medium sand, trace gravel, brown, moist to dry (SM)	SS1	6-6-8	14	2.5														
	Field engineer reported clayey fine sand FILL																		
	Very stiff SILTY CLAY, some sand, trace gravel, gray (CL)	SS2	3-5-6	11	5.0	6000*	23.7												
	Loose CLAYEY SILT, trace sand and gravel, gray (ML)	SS3	1-3-4	7	7.5		21.3												
	Stiff SILTY CLAY, trace sand and gravel, frequent silt partings, gray (CL)	SS4	2-3-5	8	10.0	2500*	24.6												
	End of Boring at 10 ft.																		

LOG OF TEST BORING VER2: G05002A-PLAZA LOGS.GPJ SOMAT.GDT 10/1/07

BORING COORDINATES
Drilling Company: Strata Drilling
Drill Rig: CME 55
Engineer on Rig: J. Lukasik
Drilling Method: 2 1/4 inch SSA
Hammer Type: Manual
Backfilled With: Cuttings/Patch
Date Started: 08-22-06
Date Completed: 08-22-06
Checked By: JSS

GROUNDWATER READINGS
First Encountered: None
Upon Completion: None
Remarks:

Torvane
* Pocket Penetrometer
<- Disturbed Sample



PROJECT NO. G05002A BORING NO. B-48 PAGE 1 of 1

10/1/07

PROJECT NO. G05002A		DATE 8/22/2006		LOG OF TEST BORING B-49															
LOG OF SOIL PROFILE		FIELD DATA				LABORATORY DATA													
ELEVATION ft. MSL	Depth DEPTH (ft)	SAMPLE NO.	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	UNCONFINED COMP. STREN. psf				▲ DRY DENSITY pcf ▲						
									2000	4000	6000	8000	100	110	120	130			
									▼ SPT N VALUE ▼				● MOISTURE CONTENT % ●						
									10	20	30	40	10	20	30	40			
	Ground Surface Elevation																		
	9 inches of ASPHALTIC CEMENT CONCRETE																		
	5 inches of crushed concrete FILL																		
	FILL - Medium dense silty fine sand, trace gravel, orangish brown, moist (SM)	SS1	6-7-9	16	2.5														
	Very stiff SILTY CLAY, some sand, trace gravel, gray (CL)	SS2	5-5-5	10	5.0														
	FILL - Medium dense silty fine to coarse sand, trace gravel, brown, moist (SM)	SS3	3-10-15	25	7.5														
	FILL - Medium dense silty medium to coarse sand, trace gravel, brown, moist to wet (SM)	SS4	4-7-4	11	10.0														
	SILTY CLAY, some sand, trace gravel, gray (SL)																		
	End of Boring at 10 ft.																		

LOG OF TEST BORING VER2: G05002A-PLAZA LOGS.GPJ SOMAT.GDT 10/1/07

BORING COORDINATES
Drilling Company: Strata Drilling
Drill Rig: CME 55
Engineer on Rig: J. Lukasik
Drilling Method: 2 1/4 inch SSA
Hammer Type: Manual
Backfilled With: Cuttings/Patch
Date Started: 08-22-06
Date Completed: 08-22-06
Checked By: JSS

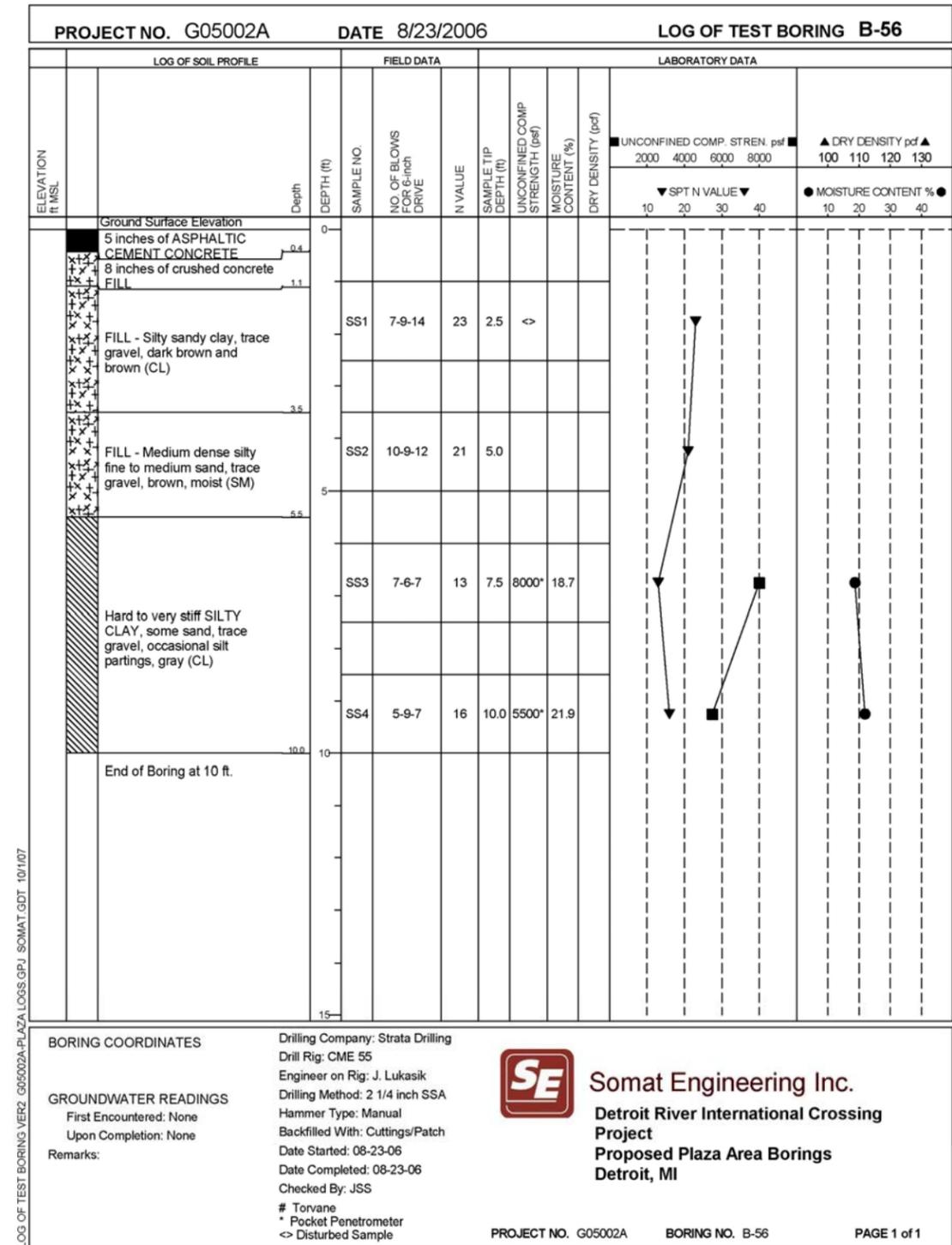
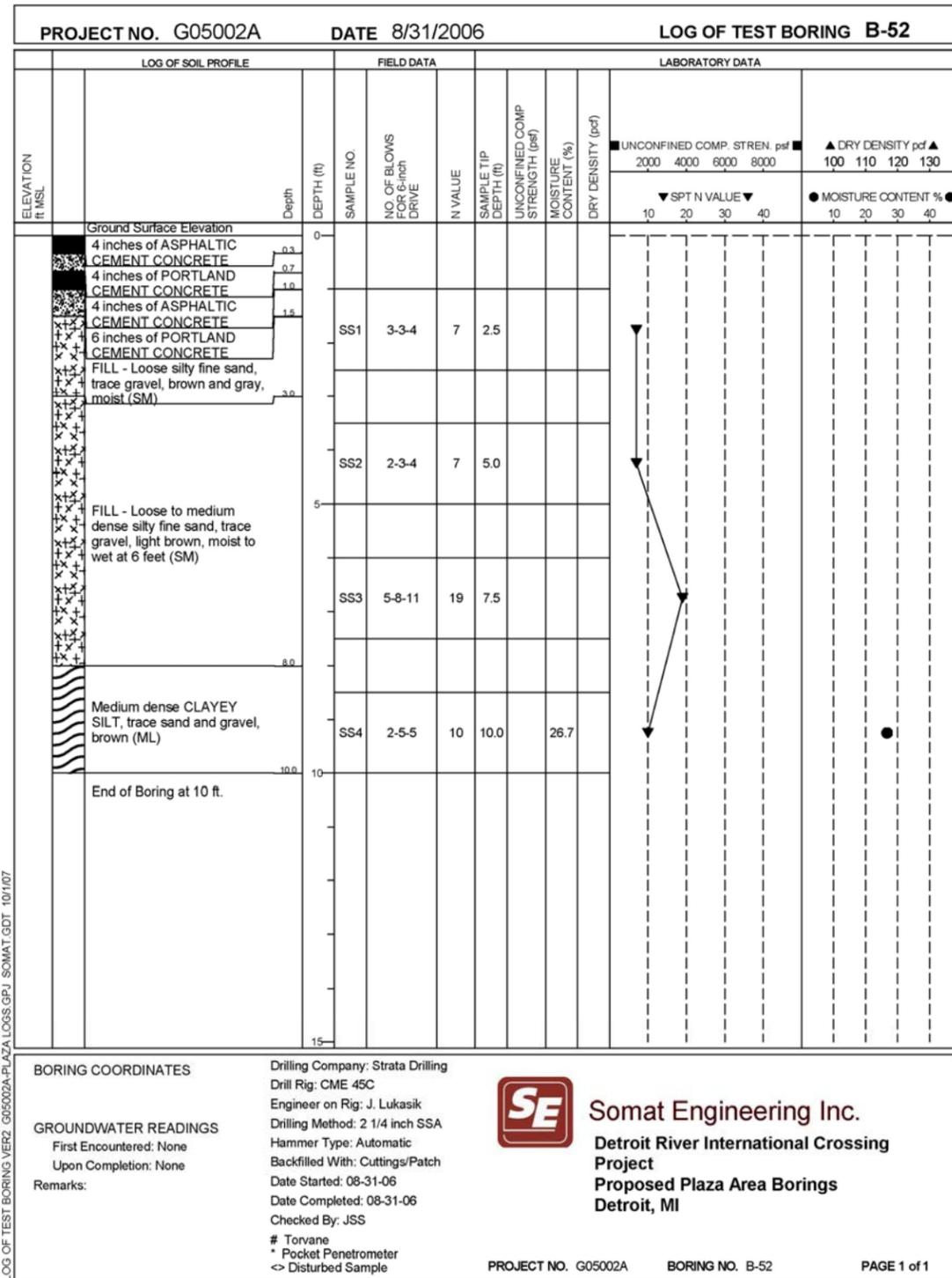
GROUNDWATER READINGS
First Encountered: None
Upon Completion: None
Remarks:

Torvane
* Pocket Penetrometer
<- Disturbed Sample



PROJECT NO. G05002A BORING NO. B-49 PAGE 1 of 1

10/1/07

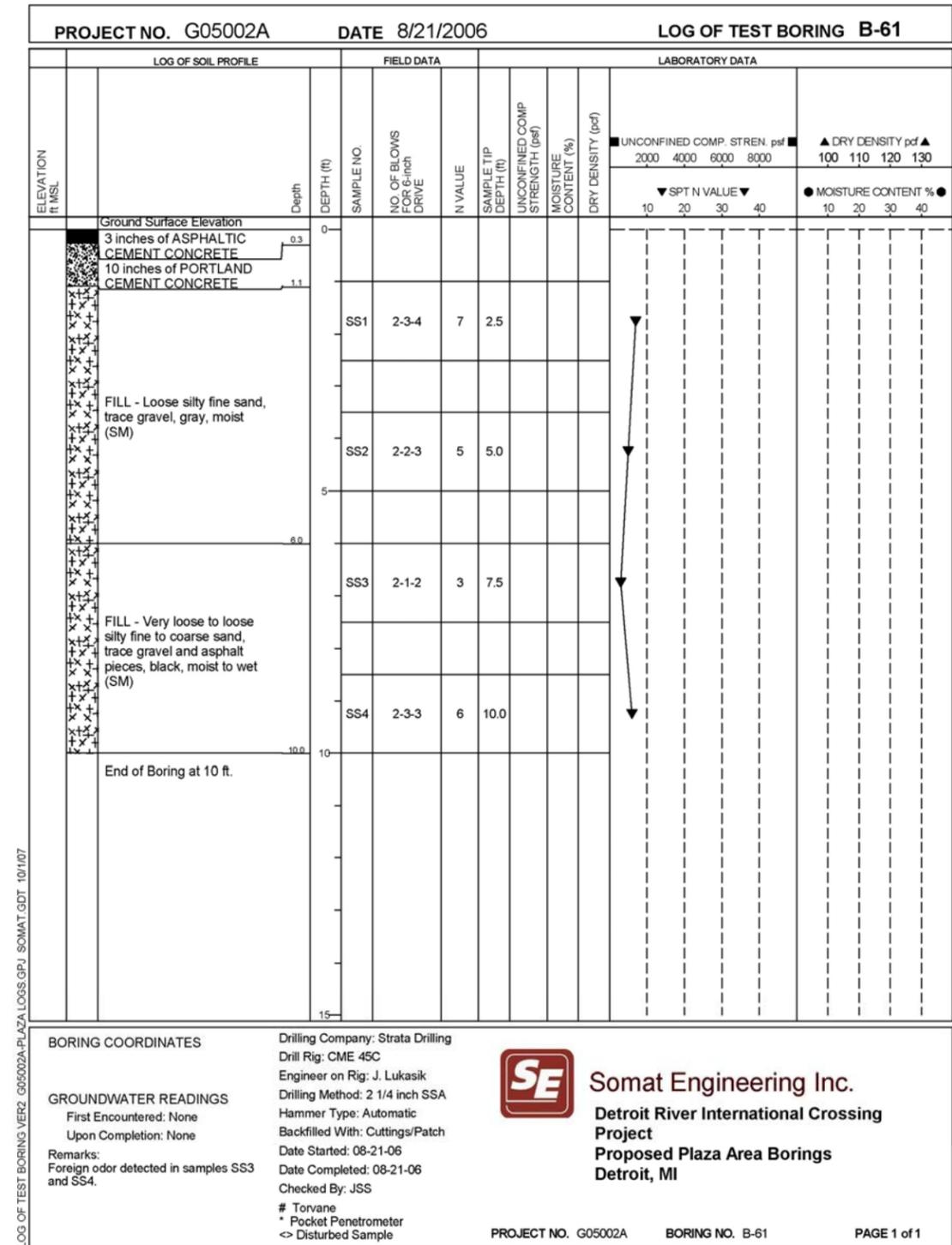
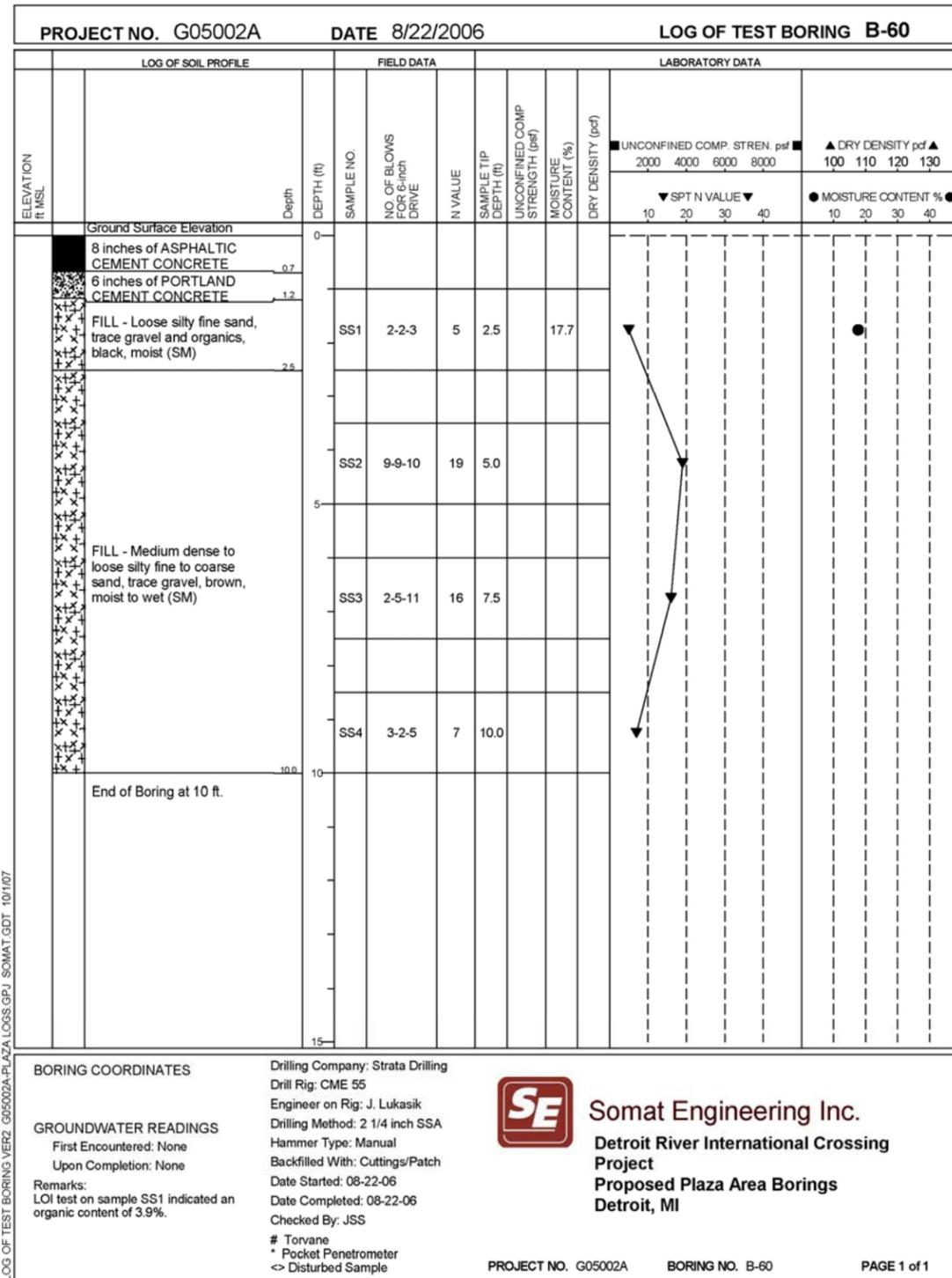


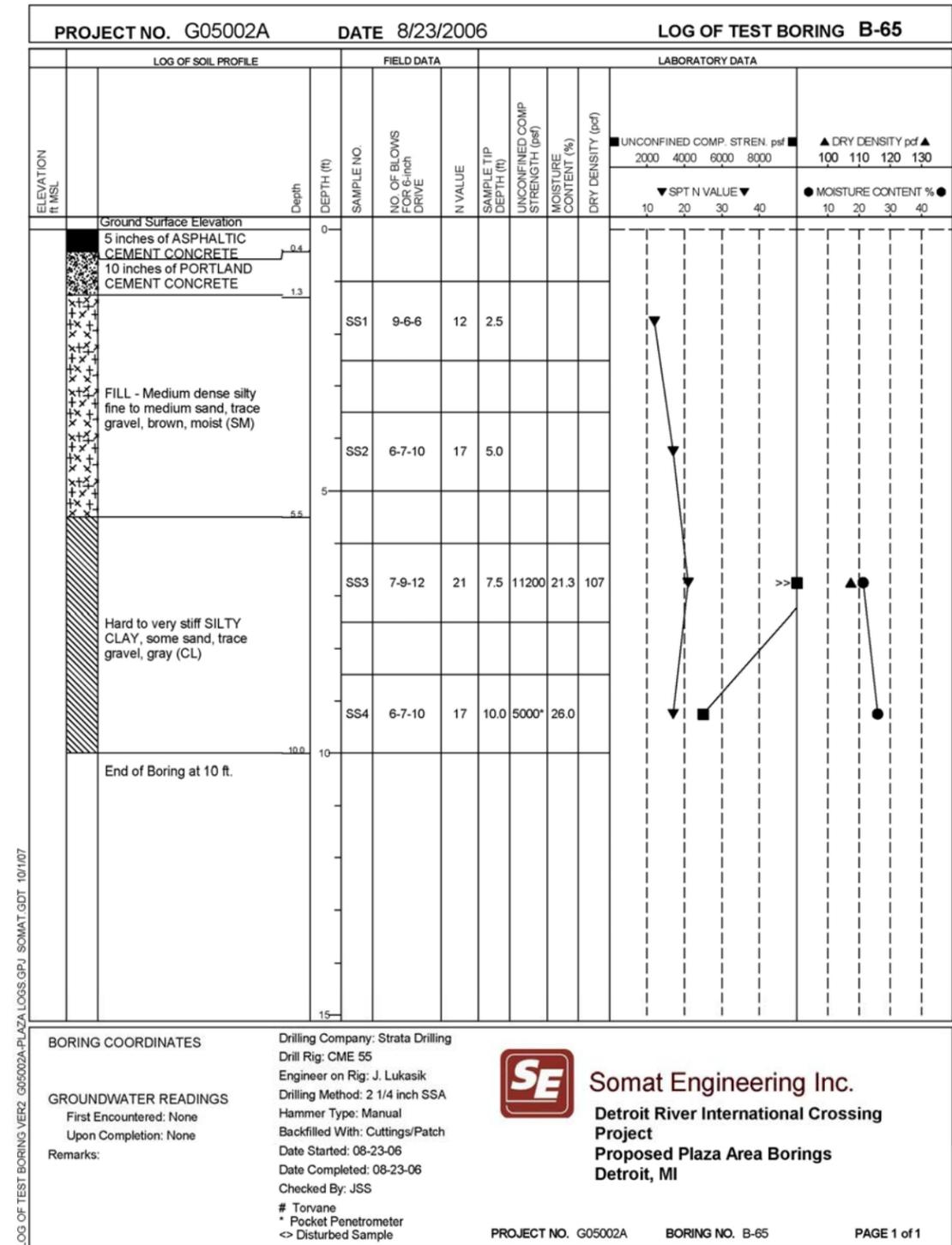
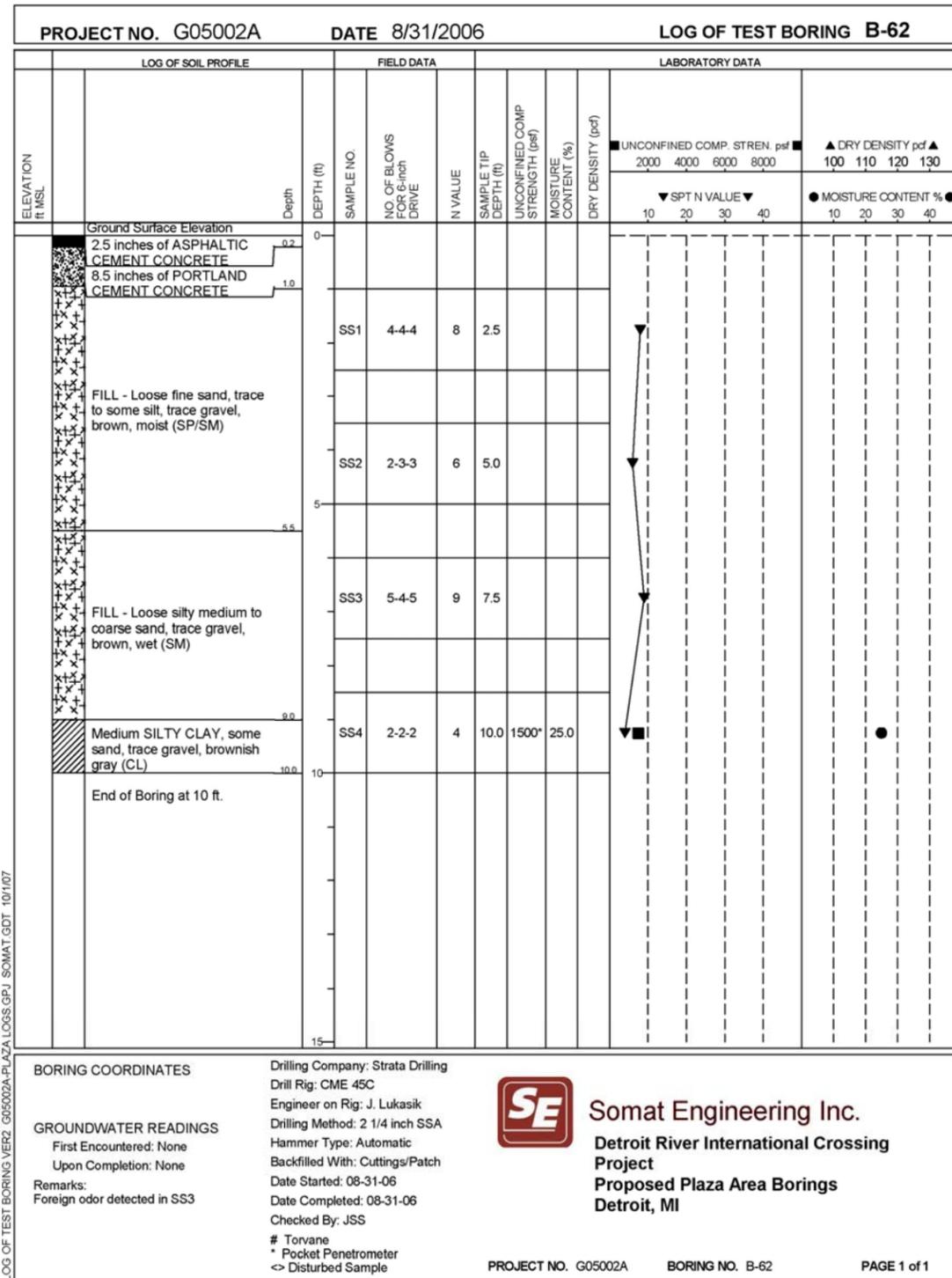
PROJECT NO. G05002A		DATE 8/24/2006		LOG OF TEST BORING B-58														
LOG OF SOIL PROFILE		FIELD DATA				LABORATORY DATA												
ELEVATION ft. MSL	Depth DEPTH (ft)	SAMPLE NO.	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	UNCONFINED COMP. STREN. psf				▲ DRY DENSITY pcf ▲					
									2000	4000	6000	8000	100	110	120	130		
									▼ SPT N VALUE ▼				● MOISTURE CONTENT % ●					
									10	20	30	40	10	20	30	40		
	Ground Surface Elevation																	
	6 inches of PORTLAND CEMENT CONCRETE																	
	FILL - Mixed sand and topsoil																	
	FILL - Medium dense fine sand, trace silt and gravel, orangish brown, moist (SP)	SS1	3-5-7	12	2.5													
	FILL - Medium dense fine sand, trace silt and gravel, light brown, moist (SP)	SS2	5-6-6	12	5.0													
	FILL - Medium dense silty fine to coarse sand, trace gravel, brown, moist (SM)	SS3	4-5-5	10	7.5													
	End of Boring at 10 ft.	SS4	3-5-7	12	10.0													

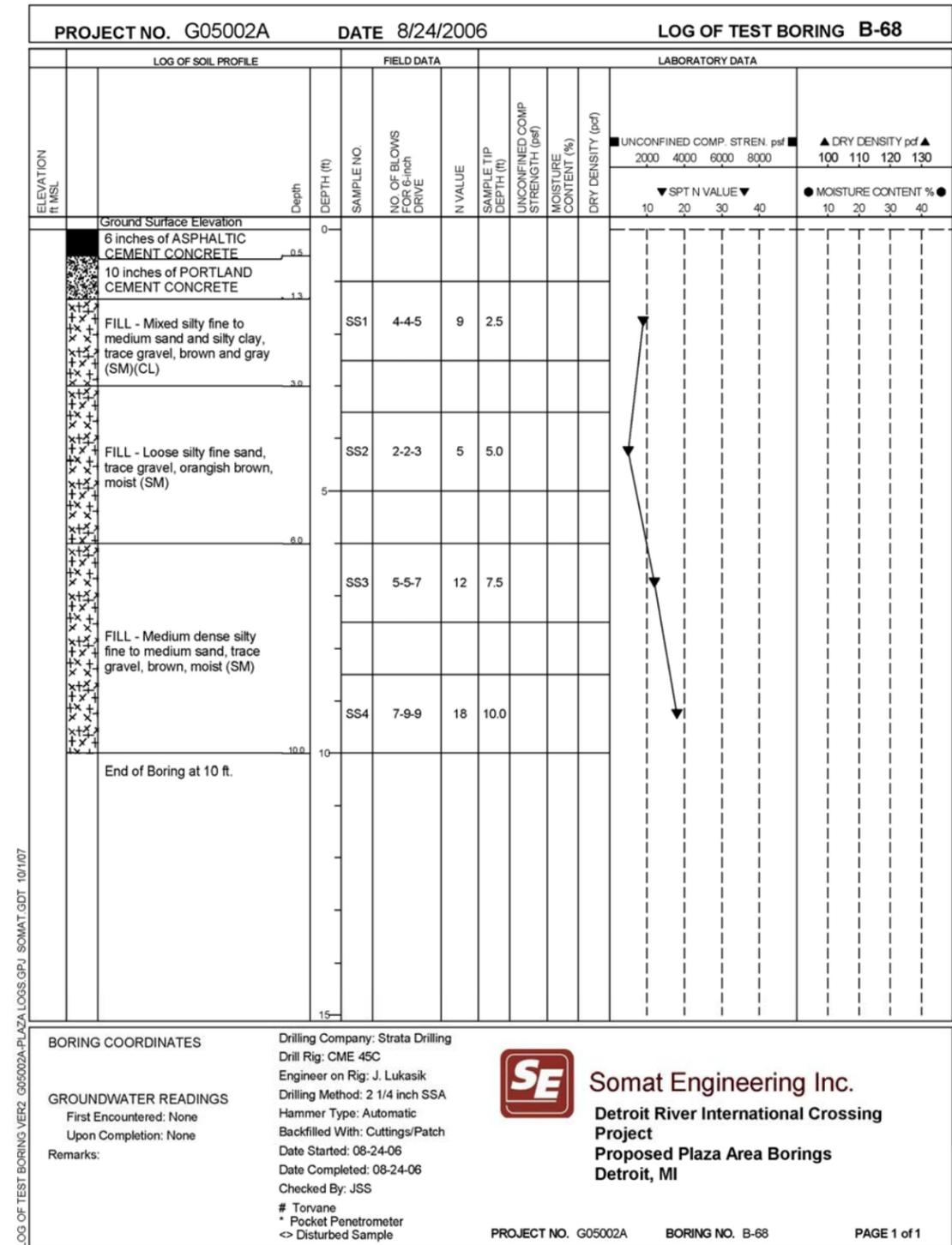
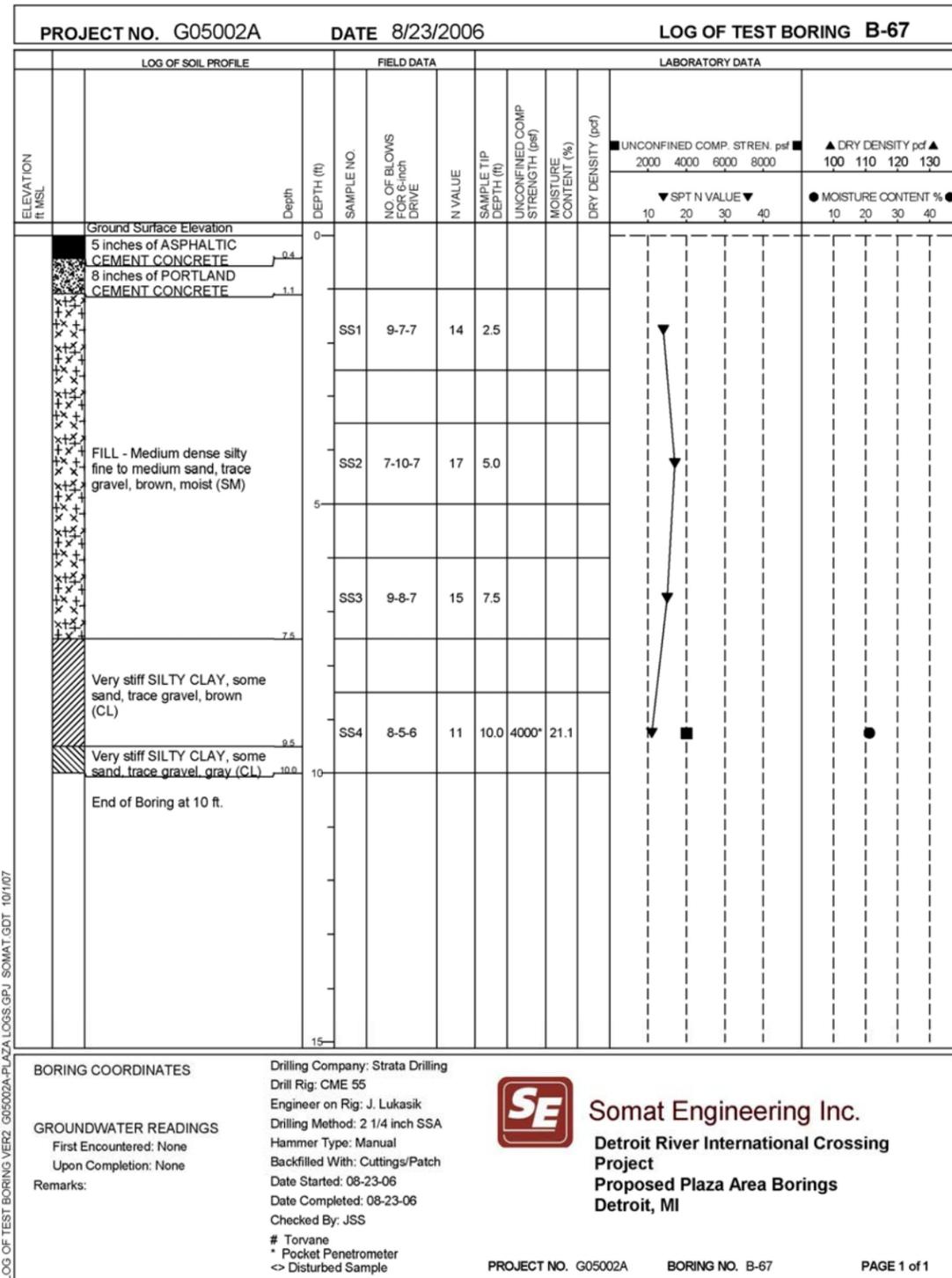
PROJECT NO. G05002A		DATE 8/25/2006		LOG OF TEST BORING B-59														
LOG OF SOIL PROFILE		FIELD DATA				LABORATORY DATA												
ELEVATION ft. MSL	Depth DEPTH (ft)	SAMPLE NO.	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	UNCONFINED COMP. STREN. psf				▲ DRY DENSITY pcf ▲					
									2000	4000	6000	8000	100	110	120	130		
									▼ SPT N VALUE ▼				● MOISTURE CONTENT % ●					
									10	20	30	40	10	20	30	40		
	Ground Surface Elevation																	
	5 inches of ASPHALTIC CEMENT CONCRETE																	
	7 inches of PORTLAND CEMENT CONCRETE																	
	FILL - Medium dense fine sand, trace to some silt, trace gravel, orangish brown to brown, moist (SP/SM)	SS1	7-10-13	23	2.5													
	FILL - Dense fine to medium sand, trace silt and gravel, brown, moist (SP)	SS2	8-6-6	12	5.0													
	FILL - Medium dense silty fine to coarse sand, trace gravel, brown, moist to wet (SM)	SS3	15-19-12	31	7.5													
	End of Boring at 10 ft.	SS4	7-8-8	16	10.0													

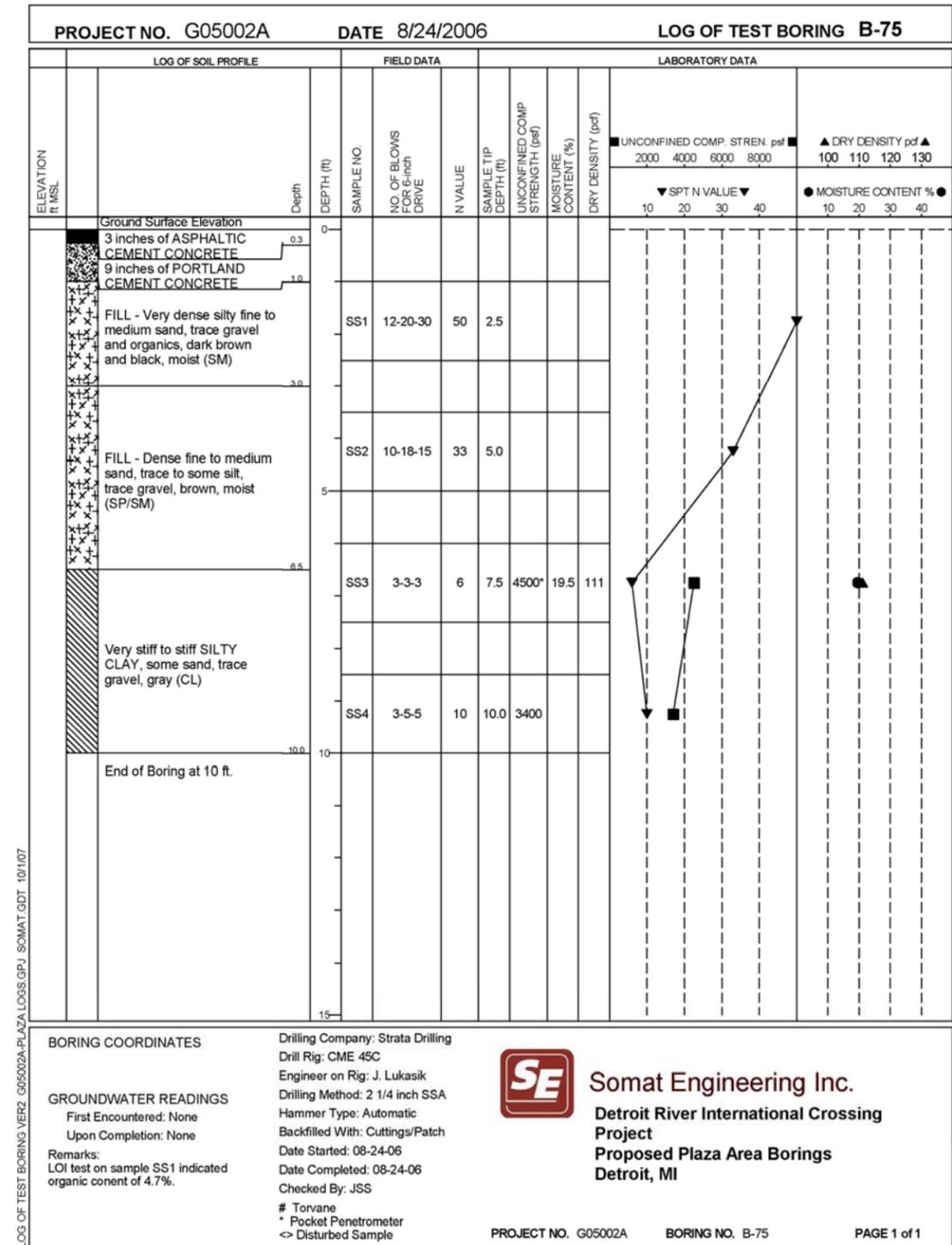
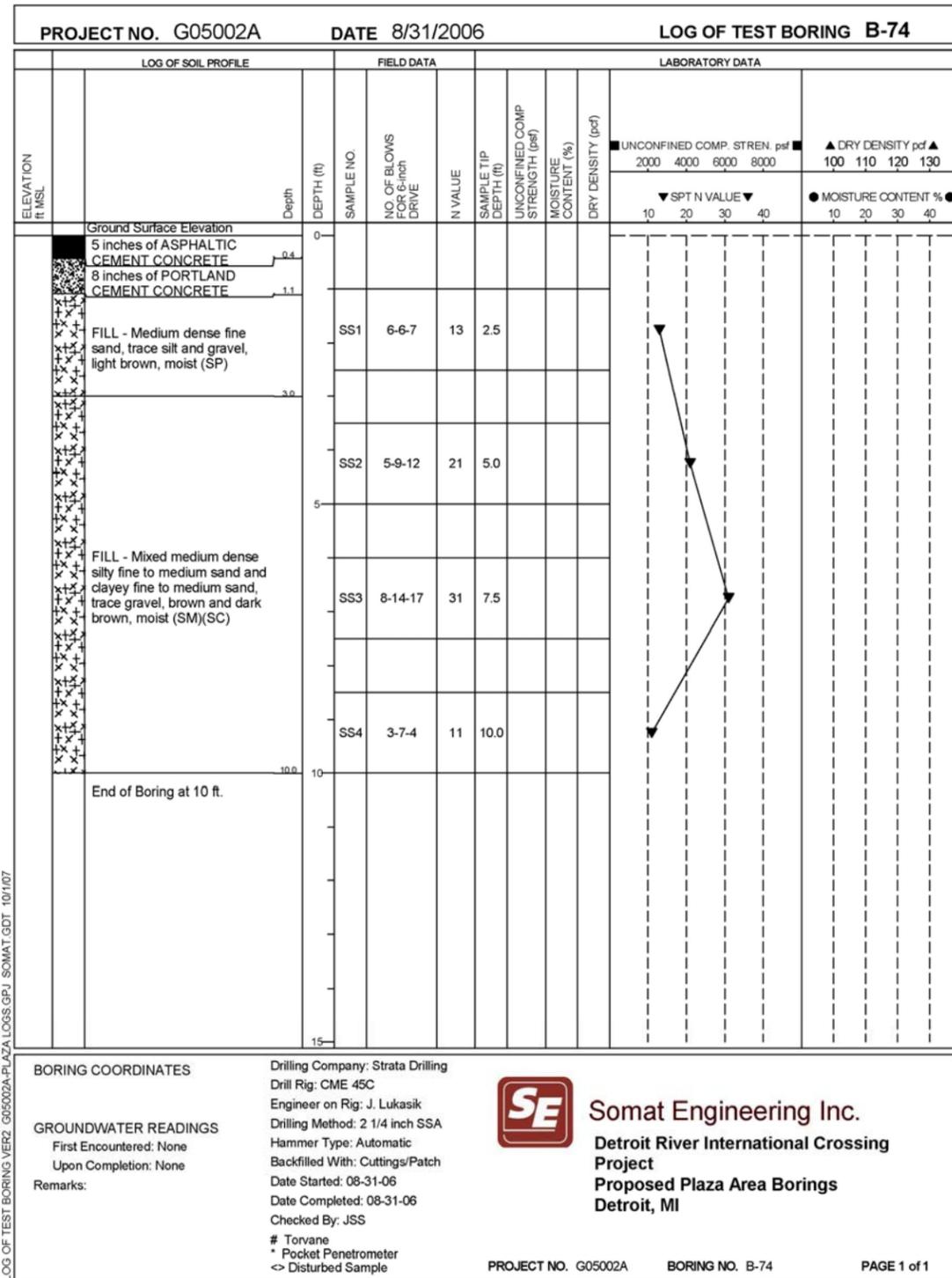
LOG OF TEST BORING VER2: G05002A-PLAZA.LOGS.GPJ SOMAT.GDT 10/1/07

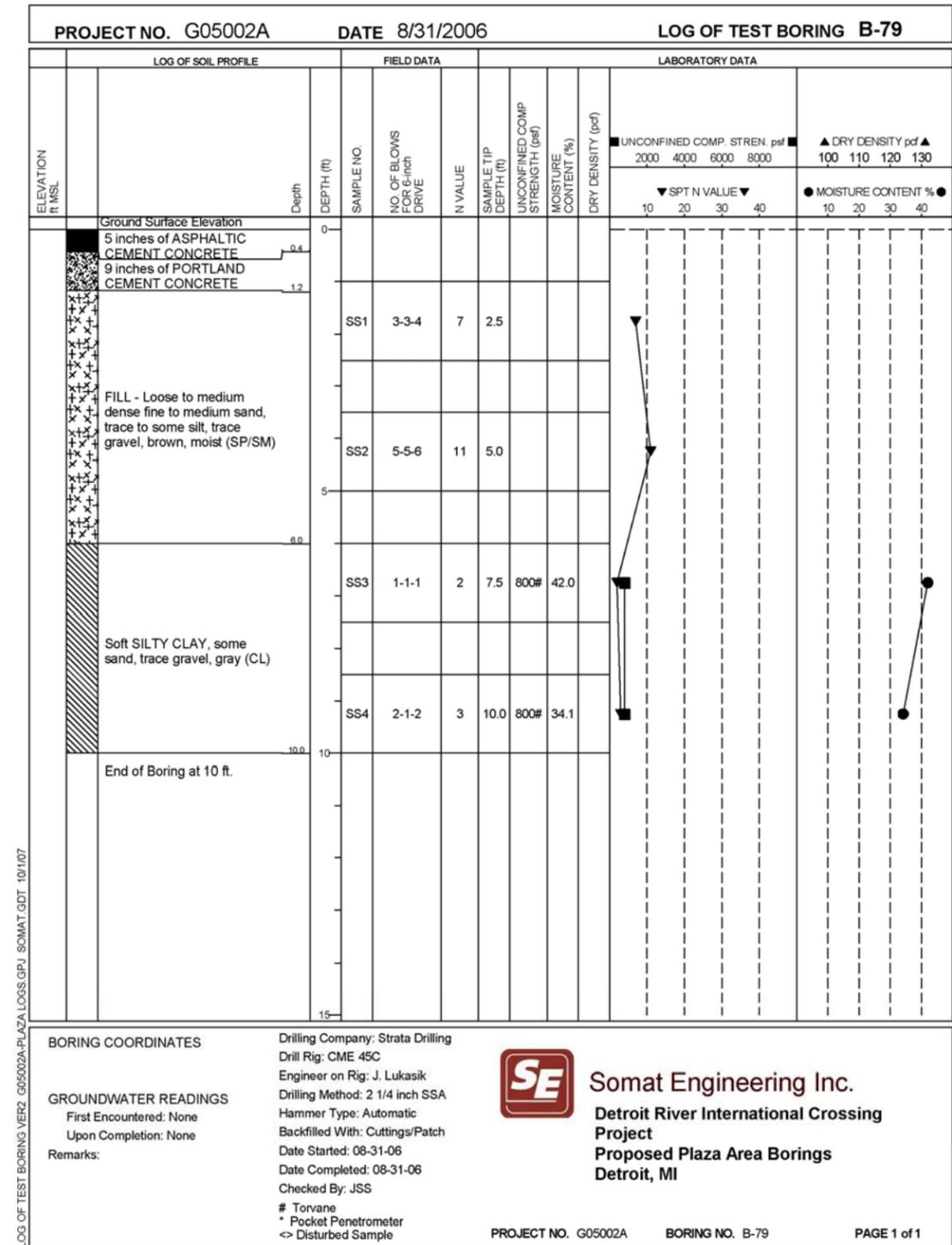
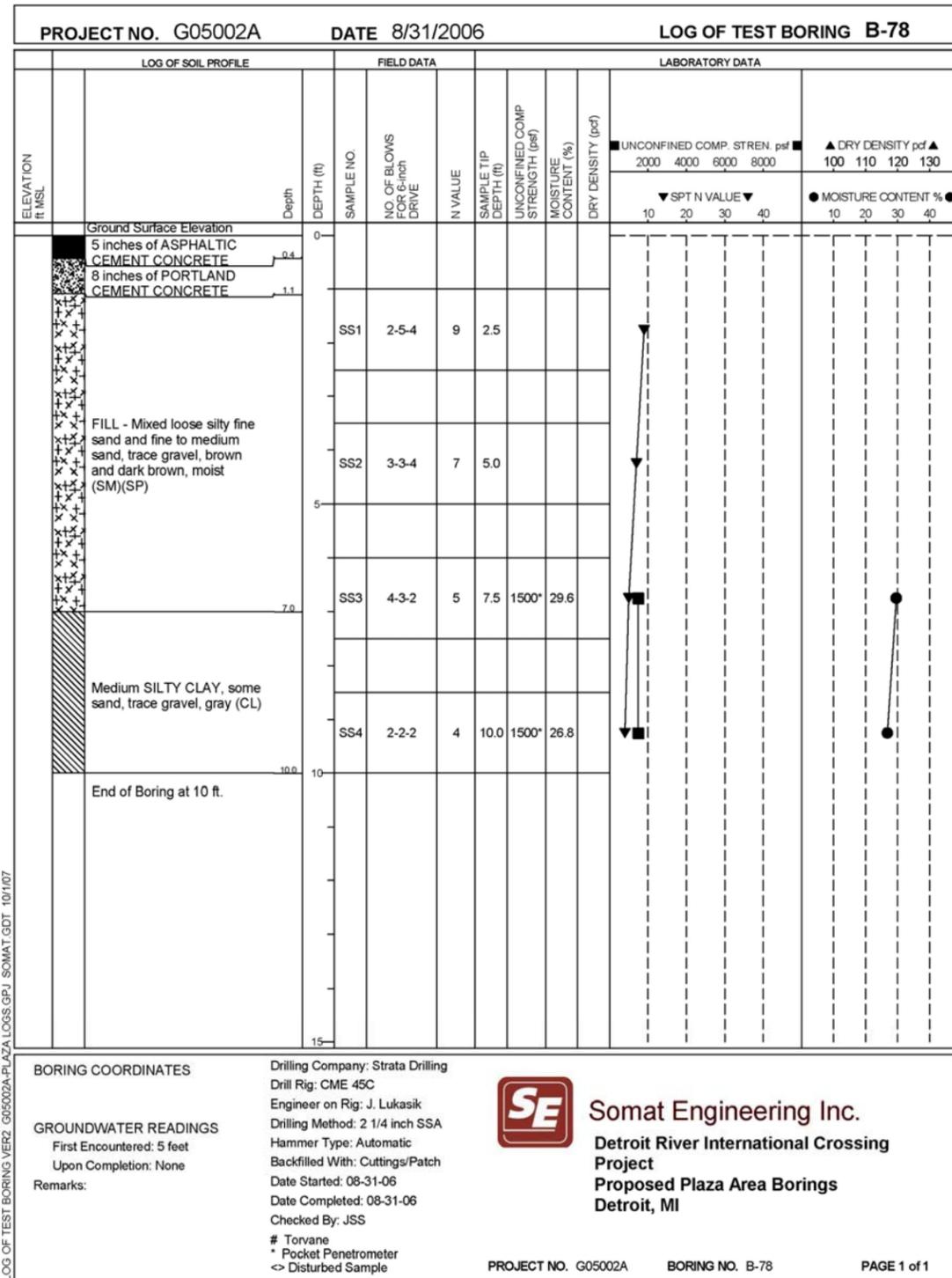
LOG OF TEST BORING VER2: G05002A-PLAZA.LOGS.GPJ SOMAT.GDT 10/1/07









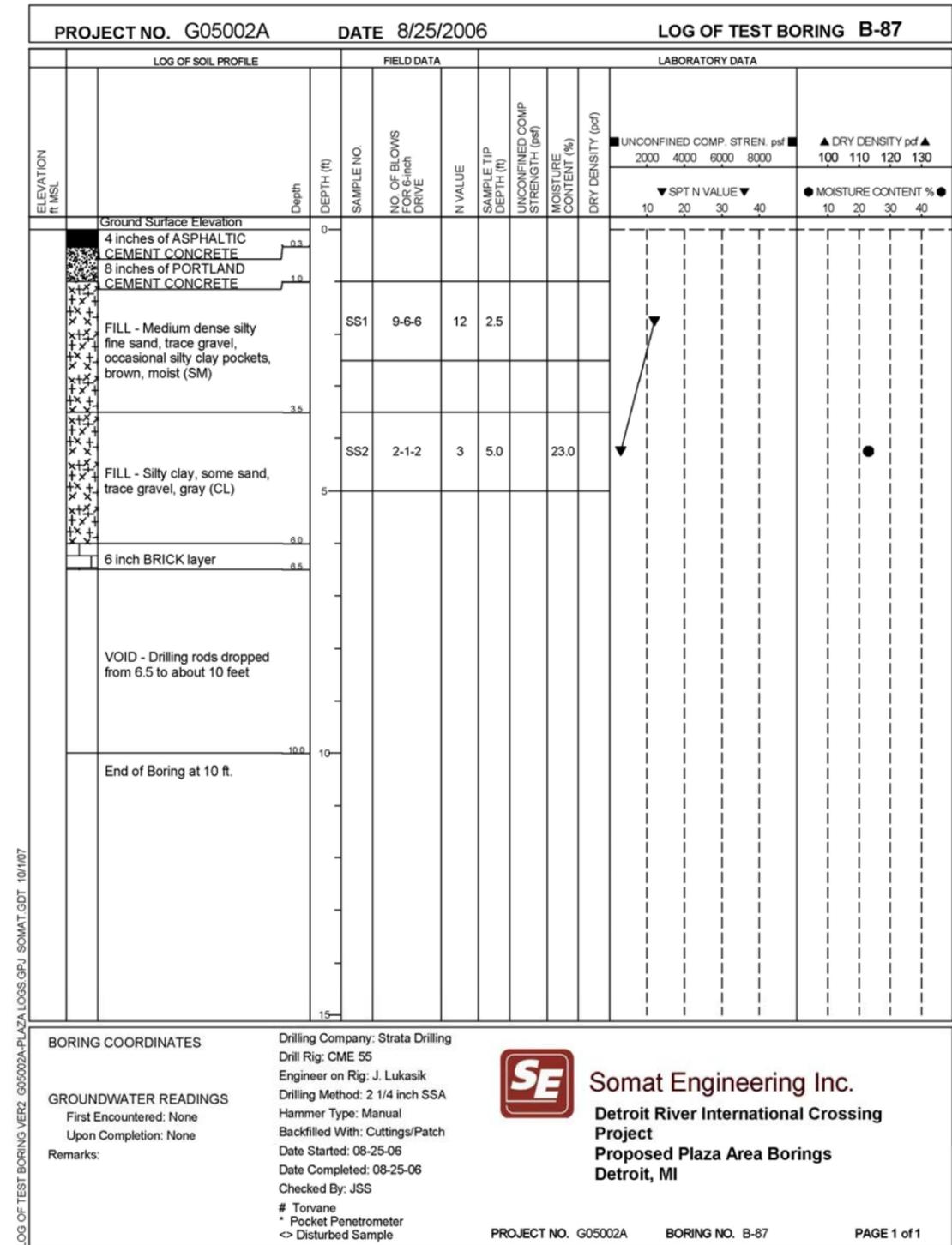
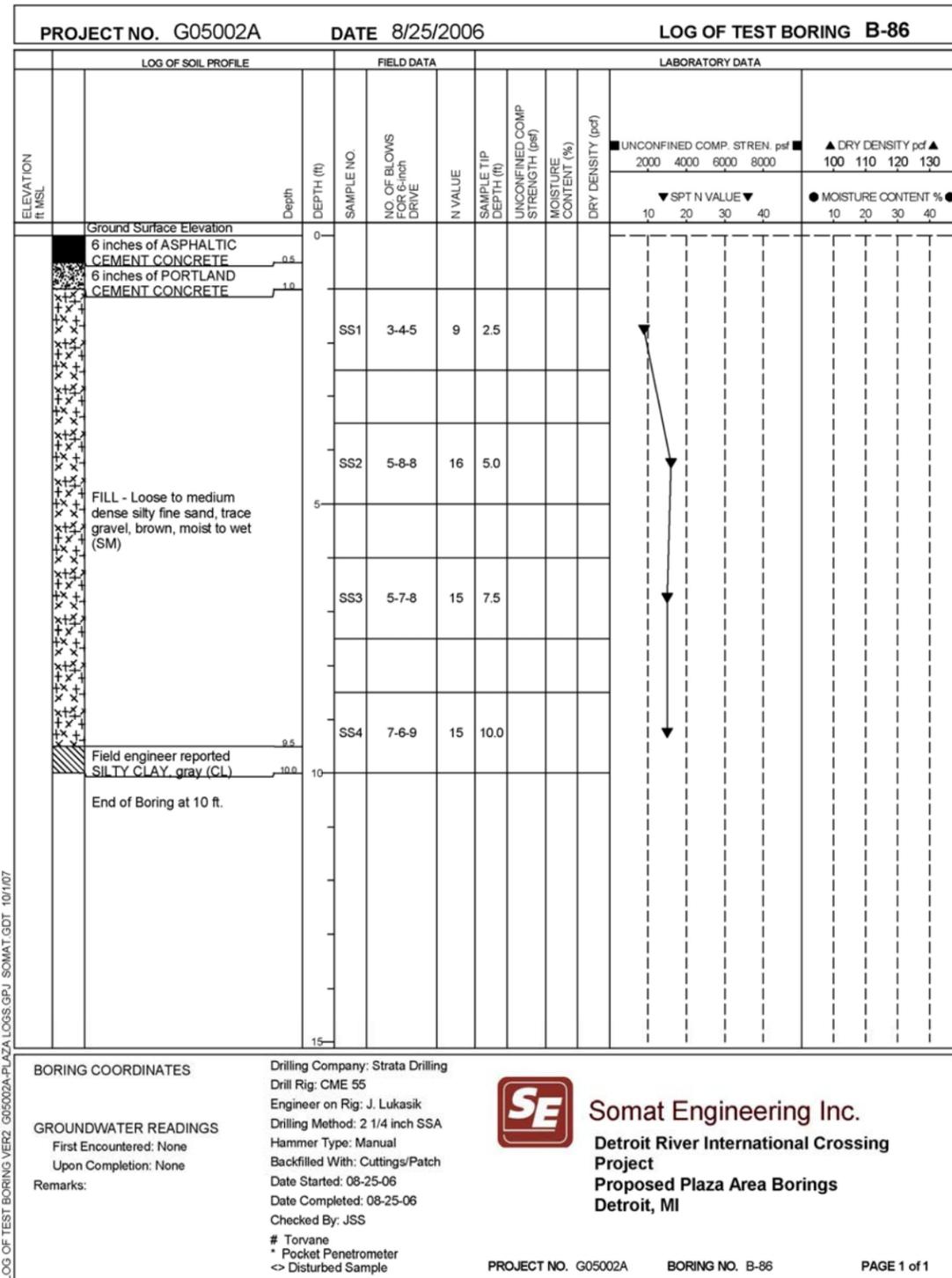


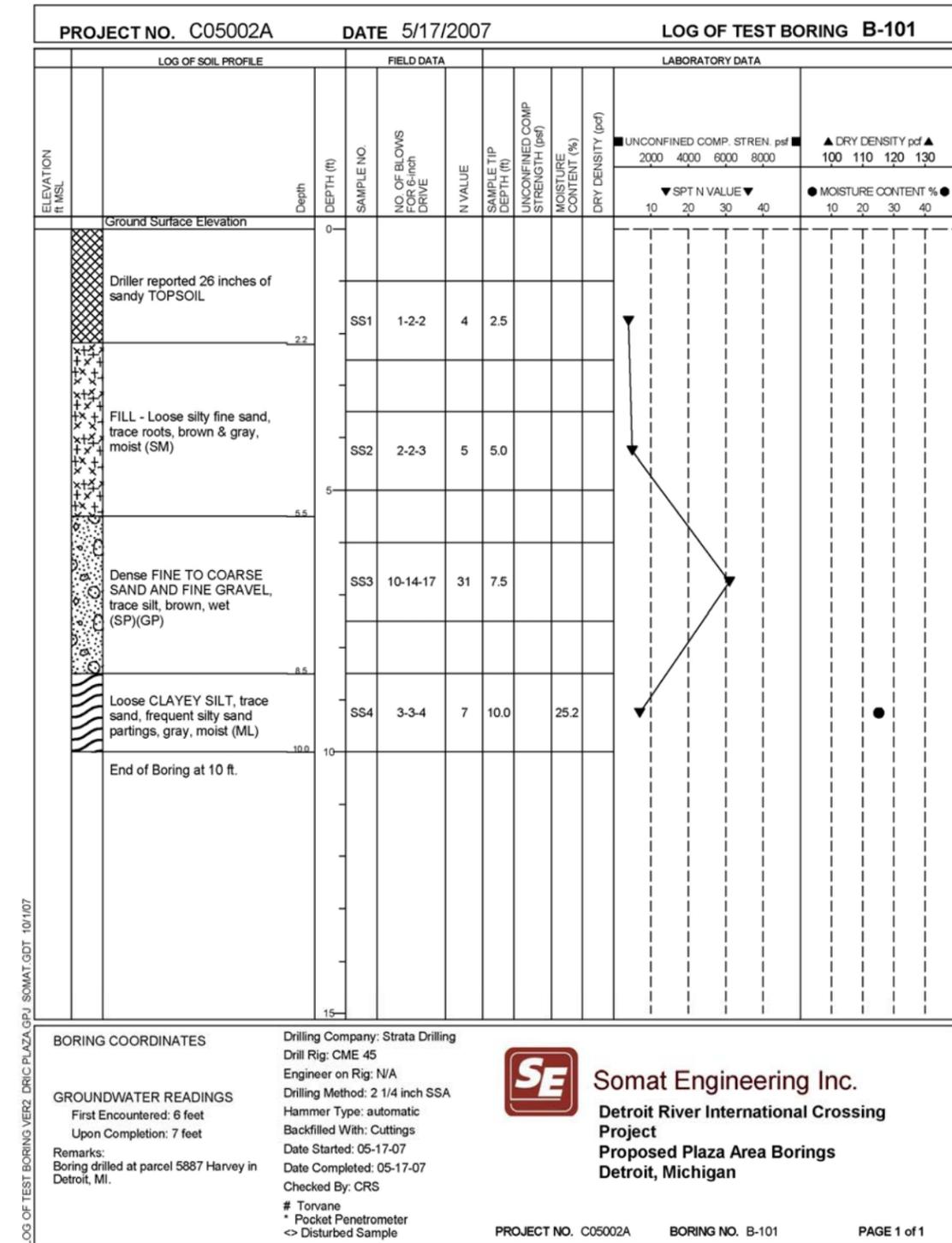
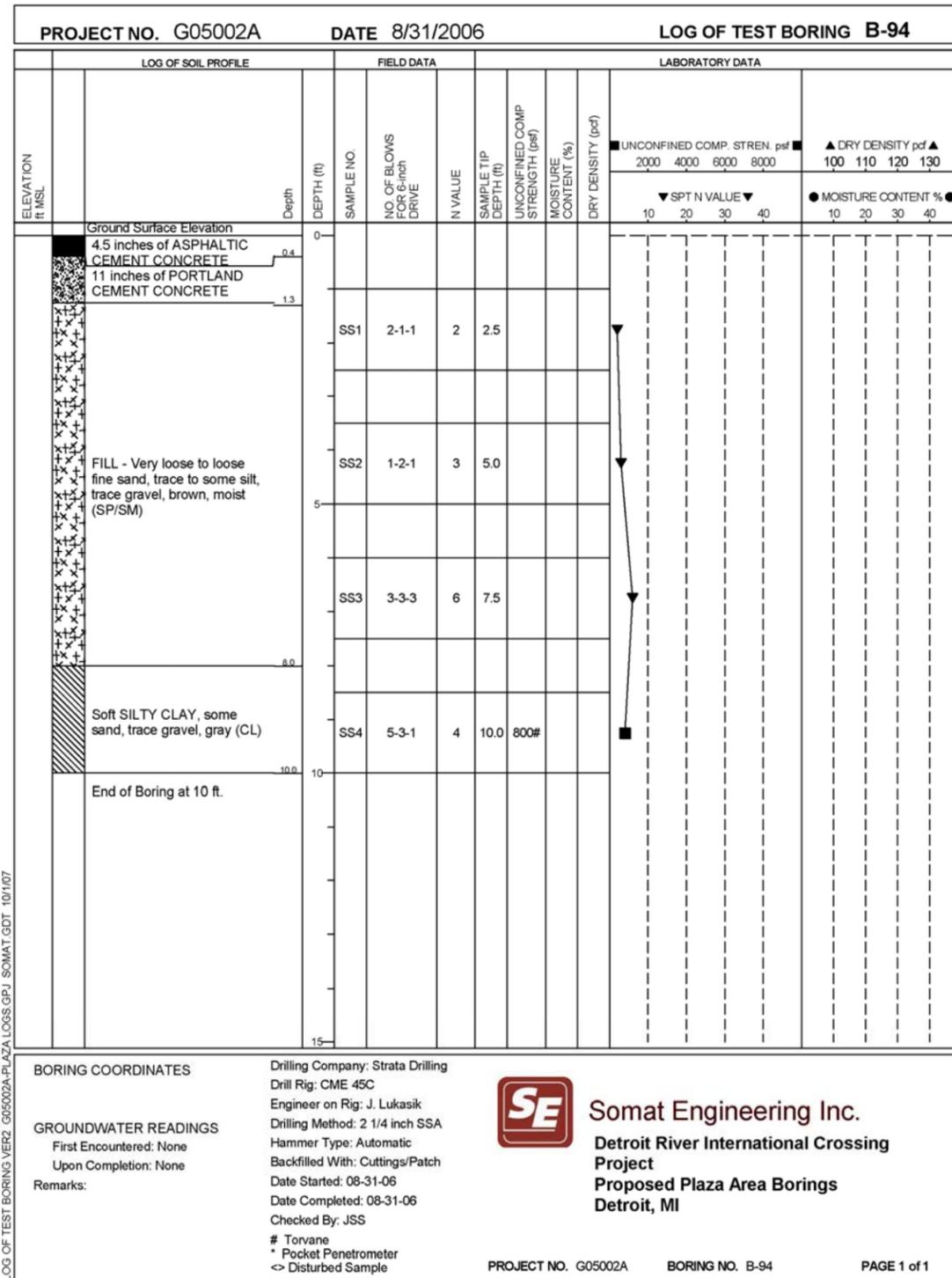
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LOG OF SOIL PROFILE		FIELD DATA				LABORATORY DATA														
ELEVATION ft. MSL	Depth DEPTH (ft)	SAMPLE NO.	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	UNCONFINED COMP. STREN. psf				▲ DRY DENSITY pcf ▲							
									2000	4000	6000	8000	100	110	120	130				
									▼ SPT N VALUE ▼				● MOISTURE CONTENT % ●							
									10	20	30	40	10	20	30	40				
	Ground Surface Elevation																			
	7 inches of ASPHALTIC CEMENT CONCRETE																			
	6 inches of crushed concrete FILL																			
	FILL - Very loose silty fine to medium sand, trace gravel, brown, moist (SM)	SS1	5-2-1	3	2.5															
	FILL - Loose clayey fine to medium sand, trace gravel, gray (CL)	SS2	2-2-4	6	5.0															
	FILL - Medium dense to loose fine to medium sand, trace to some silt, trace gravel, brown, moist to wet (SP/SM)	SS3	5-5-5	10	7.5															
	SILTY CLAY, some sand, trace gravel, gray (CL)	SS4	5-4-2	6	10.0	<	27.7													
	End of Boring at 10 ft.																			

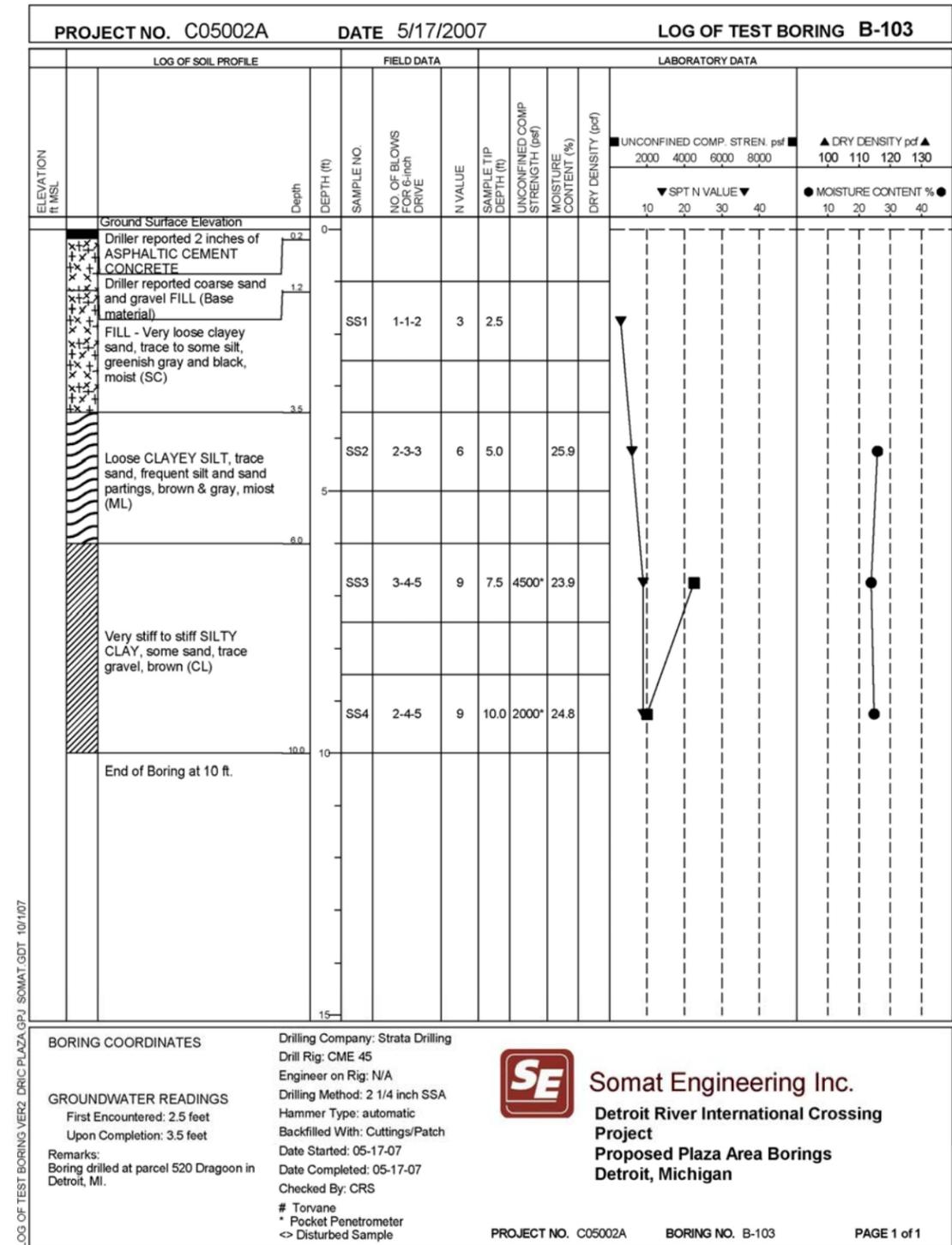
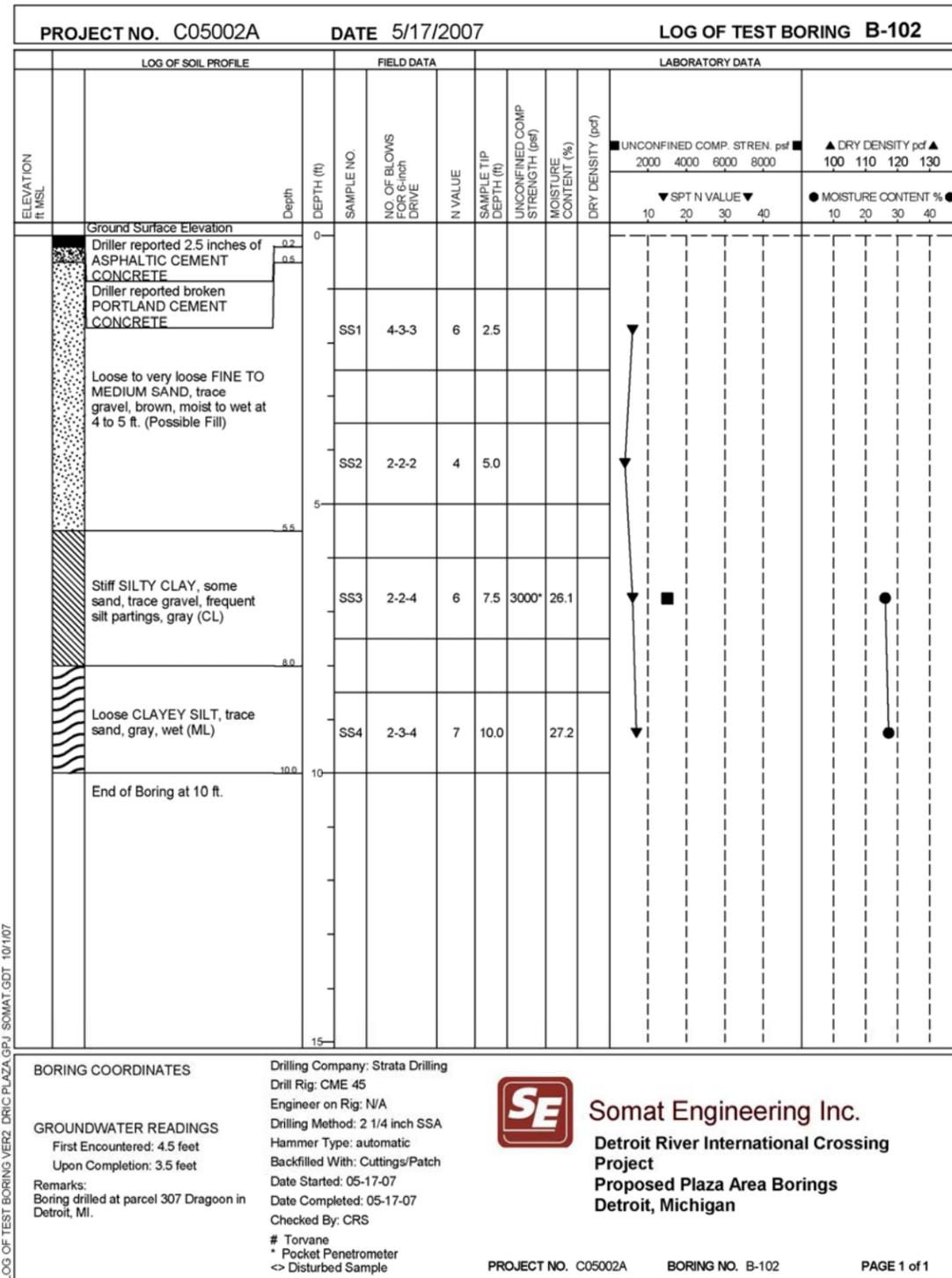
PROJECT NO. G05002A		DATE 8/31/2006		LOG OF TEST BORING B-81																
LOG OF SOIL PROFILE		FIELD DATA				LABORATORY DATA														
ELEVATION ft. MSL	Depth DEPTH (ft)	SAMPLE NO.	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	UNCONFINED COMP. STREN. psf				▲ DRY DENSITY pcf ▲							
									2000	4000	6000	8000	100	110	120	130				
									▼ SPT N VALUE ▼				● MOISTURE CONTENT % ●							
									10	20	30	40	10	20	30	40				
	Ground Surface Elevation																			
	6 inches of ASPHALTIC CEMENT CONCRETE																			
	8 inches of PORTLAND CEMENT CONCRETE																			
	FILL - Very loose silty fine sand, trace gravel, dark brown, moist (SM)	SS1	1-1-2	3	2.5															
	FILL - Very loose clayey fine to medium sand, trace gravel, brown, moist (SC)	SS2	3-3-1	4	5.0															
	FILL - Medium dense to loose fine to medium sand, trace to some silt, trace gravel, brown, moist to wet (SP/SM)	SS3	5-7-7	14	7.5															
	End of Boring at 10 ft.																			

LOG OF TEST BORING VER2: G05002A-PLAZA.LOGS.GPJ SOMAT.GDT 10/1/07

LOG OF TEST BORING VER2: G05002A-PLAZA.LOGS.GPJ SOMAT.GDT 10/1/07







PROJECT NO. C05002A		DATE 5/17/2007		LOG OF TEST BORING B-104																
LOG OF SOIL PROFILE		FIELD DATA				LABORATORY DATA				LABORATORY DATA										
ELEVATION ft. MSL	Depth DEPTH (ft)	SAMPLE NO.	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	UNCONFINED COMP. STREN. psf				▲ DRY DENSITY pcf ▲							
									2000	4000	6000	8000	100	110	120	130				
									▼ SPT N VALUE ▼				● MOISTURE CONTENT % ●							
									10	20	30	40	10	20	30	40				
Ground Surface Elevation																				
	0																			
		SS1	2-3-4	7	2.5															
		SS2	2-3-4	7	5.0															
	5																			
	6.0																			
		SS3	18-17-24	41	7.5															
	8.0																			
		SS4	8-10-11	21	10.0															
	10.0																			
	10	End of Boring at 10 ft.																		
	15																			

LOG OF TEST BORING VER2 DRIC PLAZA GPJ SOMAT.GDT 10/1/07

<p>BORING COORDINATES</p> <p>GROUNDWATER READINGS First Encountered: none Upon Completion: none</p> <p>Remarks: Boring drilled at parcel 6501 South in Detroit, MI.</p>	<p>Drilling Company: Strata Drilling Drill Rig: CME 45 Engineer on Rig: N/A Drilling Method: 2 1/4 inch SSA Hammer Type: automatic Backfilled With: Cuttings Date Started: 05-17-07 Date Completed: 05-17-07 Checked By: CRS</p> <p># Torvane * Pocket Penetrometer <- Disturbed Sample</p>	 <p>Somat Engineering Inc. Detroit River International Crossing Project Proposed Plaza Area Borings Detroit, Michigan</p>	<p>PROJECT NO. C05002A BORING NO. B-104 PAGE 1 of 1</p>
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PROJECT NO. C05002A		DATE 5/17/2007		LOG OF TEST BORING B-105																
LOG OF SOIL PROFILE		FIELD DATA				LABORATORY DATA				LABORATORY DATA										
ELEVATION ft. MSL	Depth DEPTH (ft)	SAMPLE NO.	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	UNCONFINED COMP. STREN. psf				▲ DRY DENSITY pcf ▲							
									2000	4000	6000	8000	100	110	120	130				
									▼ SPT N VALUE ▼				● MOISTURE CONTENT % ●							
									10	20	30	40	10	20	30	40				
Ground Surface Elevation																				
	0																			
		SS1	4-7-8	15	2.5															
	3.5																			
		SS2	4-5-6	11	5.0															
	5.0																			
		SS3	4-5-5	10	7.5															
		SS4	3-4-5	9	10.0															
	10.0																			
	10	End of Boring at 10 ft.																		
	15																			

LOG OF TEST BORING VER2 DRIC PLAZA GPJ SOMAT.GDT 10/1/07

<p>BORING COORDINATES</p> <p>GROUNDWATER READINGS First Encountered: 5 feet Upon Completion: none</p> <p>Remarks: Boring drilled at parcel 672 Waterman in Detroit, MI.</p>	<p>Drilling Company: Strata Drilling Drill Rig: CME 45 Engineer on Rig: N/A Drilling Method: 2 1/4 inch SSA Hammer Type: automatic Backfilled With: Cuttings Date Started: 05-17-07 Date Completed: 05-17-07 Checked By: CRS</p> <p># Torvane * Pocket Penetrometer <- Disturbed Sample</p>	 <p>Somat Engineering Inc. Detroit River International Crossing Project Proposed Plaza Area Borings Detroit, Michigan</p>	<p>PROJECT NO. C05002A BORING NO. B-105 PAGE 1 of 1</p>
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PROJECT NO. C05002A		DATE 5/17/2007		LOG OF TEST BORING B-106													
LOG OF SOIL PROFILE			FIELD DATA					LABORATORY DATA									
ELEVATION ft MSL	Depth DEPTH (ft)	SAMPLE NO.	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	UNCONFINED COMP. STREN. psf				DRY DENSITY pcf				
									2000	4000	6000	8000	100	110	120	130	
									▼ SPT N VALUE ▼				● MOISTURE CONTENT % ●				
									10	20	30	40	10	20	30	40	
	Ground Surface Elevation																
	Driller reported TOPSOIL																
	Loose CLAYEY SAND, trace to some gravel, trace silt and roots, brown, moist (SC) (Possible Fill)	SS1	2-3-3	6	2.5		9.3										
	Medium dense FINE TO MEDIUM SAND, trace to some silt, trace gravel, brown, moist (SP/SM) (Possible Fill)	SS2	3-4-6	10	5.0												
	Medium dense FINE SAND, trace silt, light brown, moist (SP) (Possible Fill)	SS3	3-5-5	10	7.5												
	End of Boring at 10 ft.	SS4	3-6-7	13	10.0												

LOG OF TEST BORING VER2 DRIC PLAZA GPJ SOMAT.GDT 10/1/07

<p>BORING COORDINATES</p> <p>GROUNDWATER READINGS First Encountered: none Upon Completion: none</p> <p>Remarks: Boring drilled at parcel 590 Schroeder in Detroit, MI.</p>	<p>Drilling Company: Strata Drilling Drill Rig: CME 45 Engineer on Rig: N/A Drilling Method: 2 1/4 inch SSA Hammer Type: automatic Backfilled With: Cuttings Date Started: 05-17-07 Date Completed: 05-17-07 Checked By: CRS</p> <p># Torvane * Pocket Penetrometer <- Disturbed Sample</p>	 <p>Somat Engineering Inc. Detroit River International Crossing Project Proposed Plaza Area Borings Detroit, Michigan</p>	<p>PROJECT NO. C05002A BORING NO. B-106 PAGE 1 of 1</p>
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10/1/07