

January 17, 2023

Re.: Geotechnical Subsurface Data Report
Carolina Crossroads – Phase 2
Richland & Lexington County, South Carolina
SCDOT Project ID: P039718

Submitted herein is the Geotechnical Subsurface Data Report (GSDR) comprising subsurface information collected by the Archer-United Joint Venture (AUJV) design-build team for the Phase 2 portion of the Carolina Crossroads project. This report includes field test data and laboratory test results from geotechnical investigations performed by the AUJV.

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX A – BRIDGE 42A

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SECTION 2 FIELD TESTING LOGS

SECTION 2A SOIL BORING LOGS

SECTION 2B CPT LOGS

SECTION 3 LABORATORY TEST RESULTS

SECTION 3A SPLIT-SPOON SAMPLES

SECTION 3B SHELBY TUBE SAMPLES

APPENDIX B – BRIDGE 42B

SECTION 1 BORING LOCATION PLANS

SECTION 2 FIELD TESTING LOGS

SECTION 2A SOIL BORING LOGS

SECTION 2B CPT LOGS

SECTION 3 LABORATORY TEST RESULTS

SECTION 3A SPLIT-SPOON SAMPLES

SECTION 3B SHELBY TUBE SAMPLES

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX C – BRIDGE 44

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SECTION 2	BORING LOCATION PLANS
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SECTION 3	FIELD TESTING LOGS
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Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX A – BRIDGE 42A

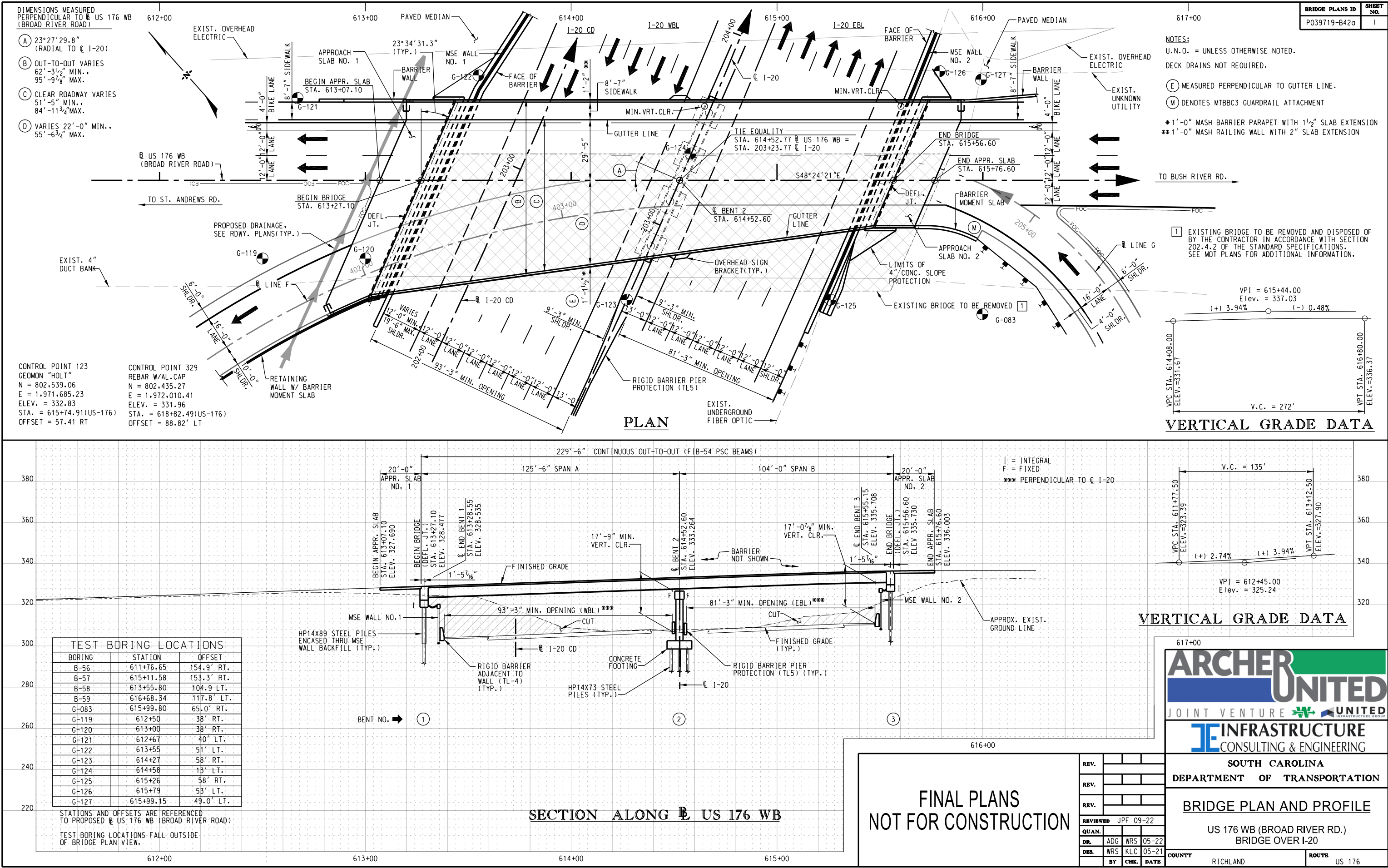
Carolina Crossroads - Phase 2

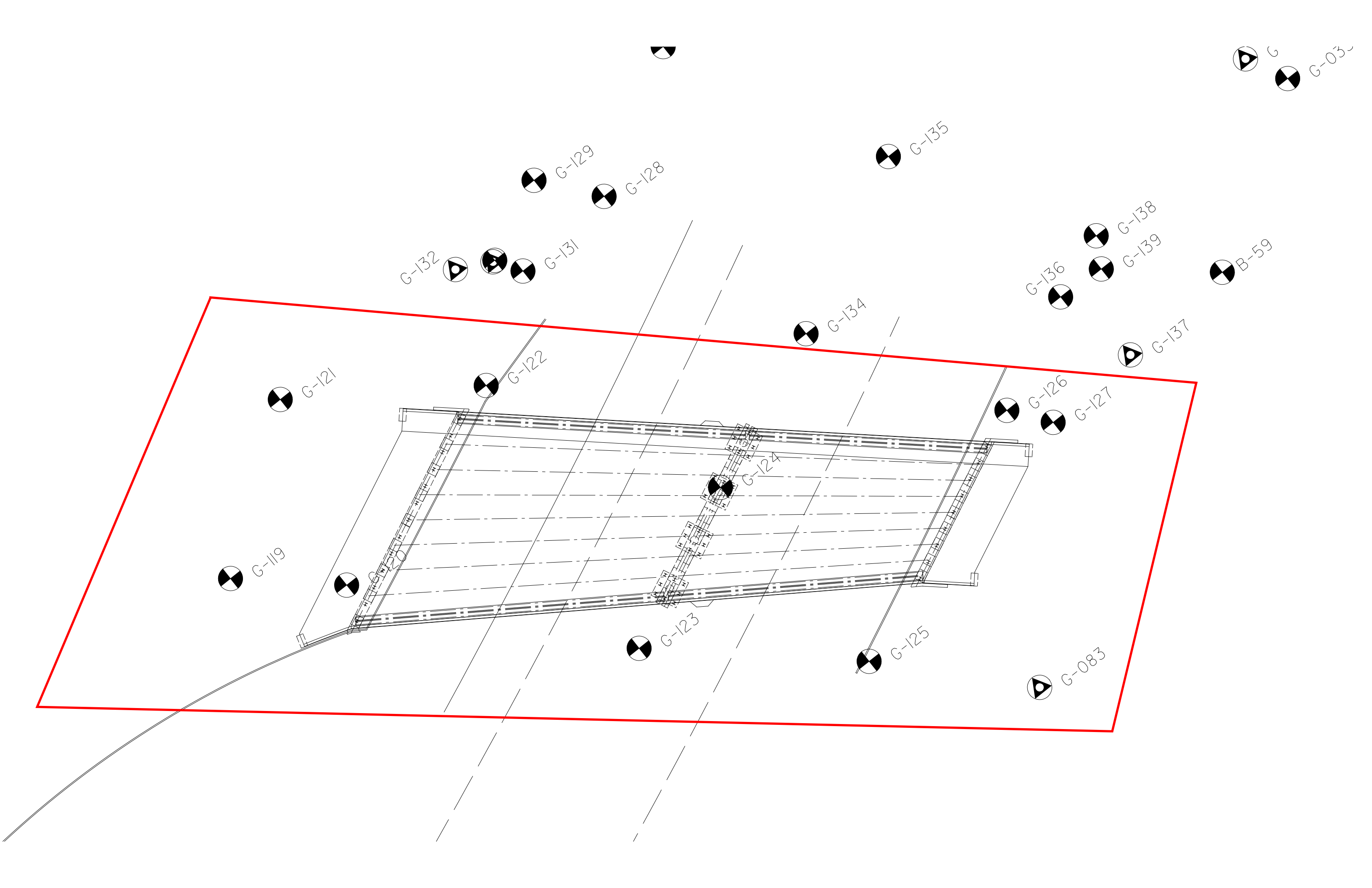
Geotechnical Subsurface Data Report

APPENDIX A – BRIDGE 42A

SECTION 1 BORING LOCATION PLANS

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Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX A – BRIDGE 42A

SECTION 2 FIELD TESTING LOGS

Carolina Crossroads - Phase 2

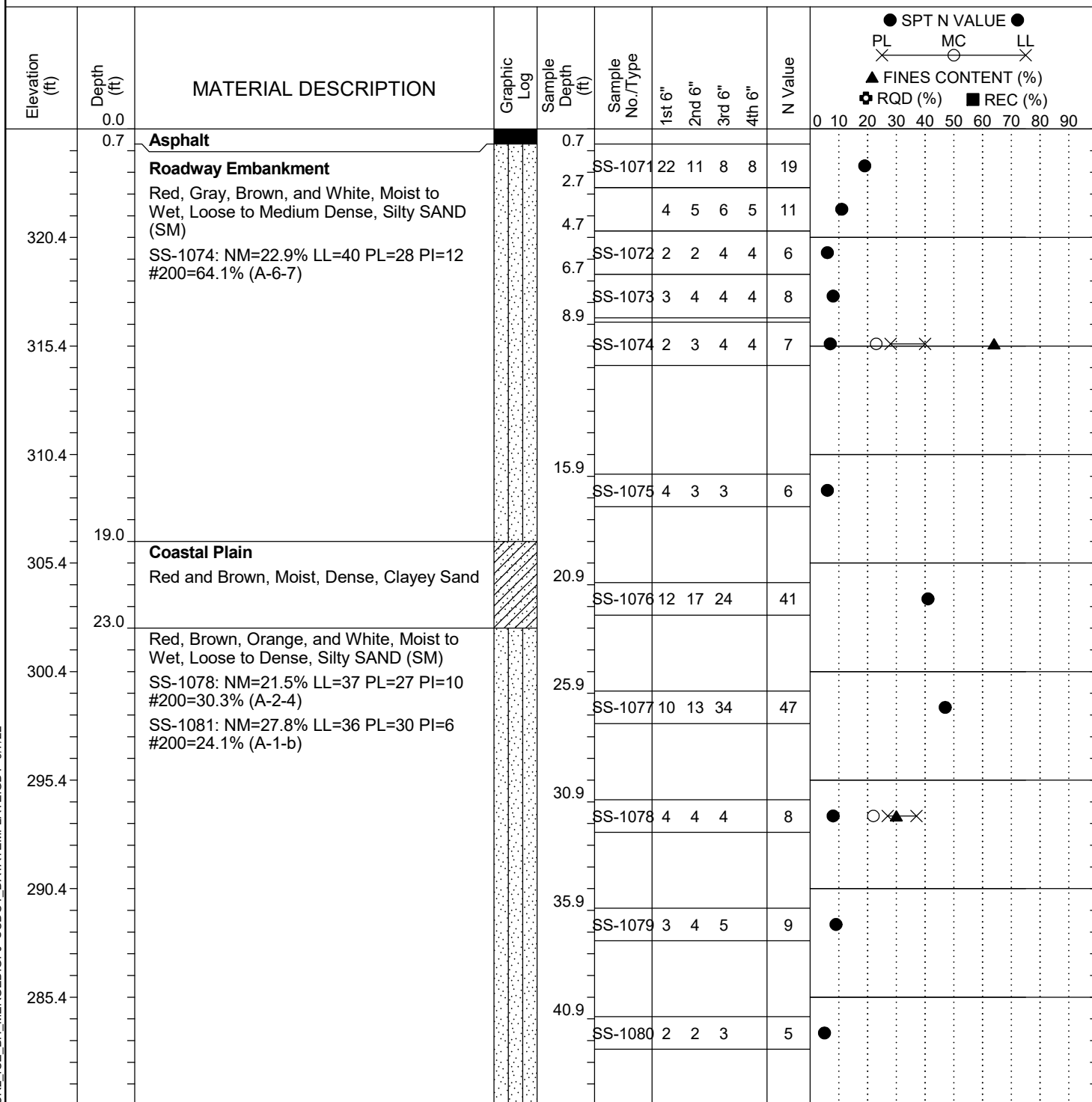
Geotechnical Subsurface Data Report

APPENDIX A – BRIDGE 42A

SECTION 2 FIELD TESTING LOGS

SECTION 2A SOIL BORING LOGS

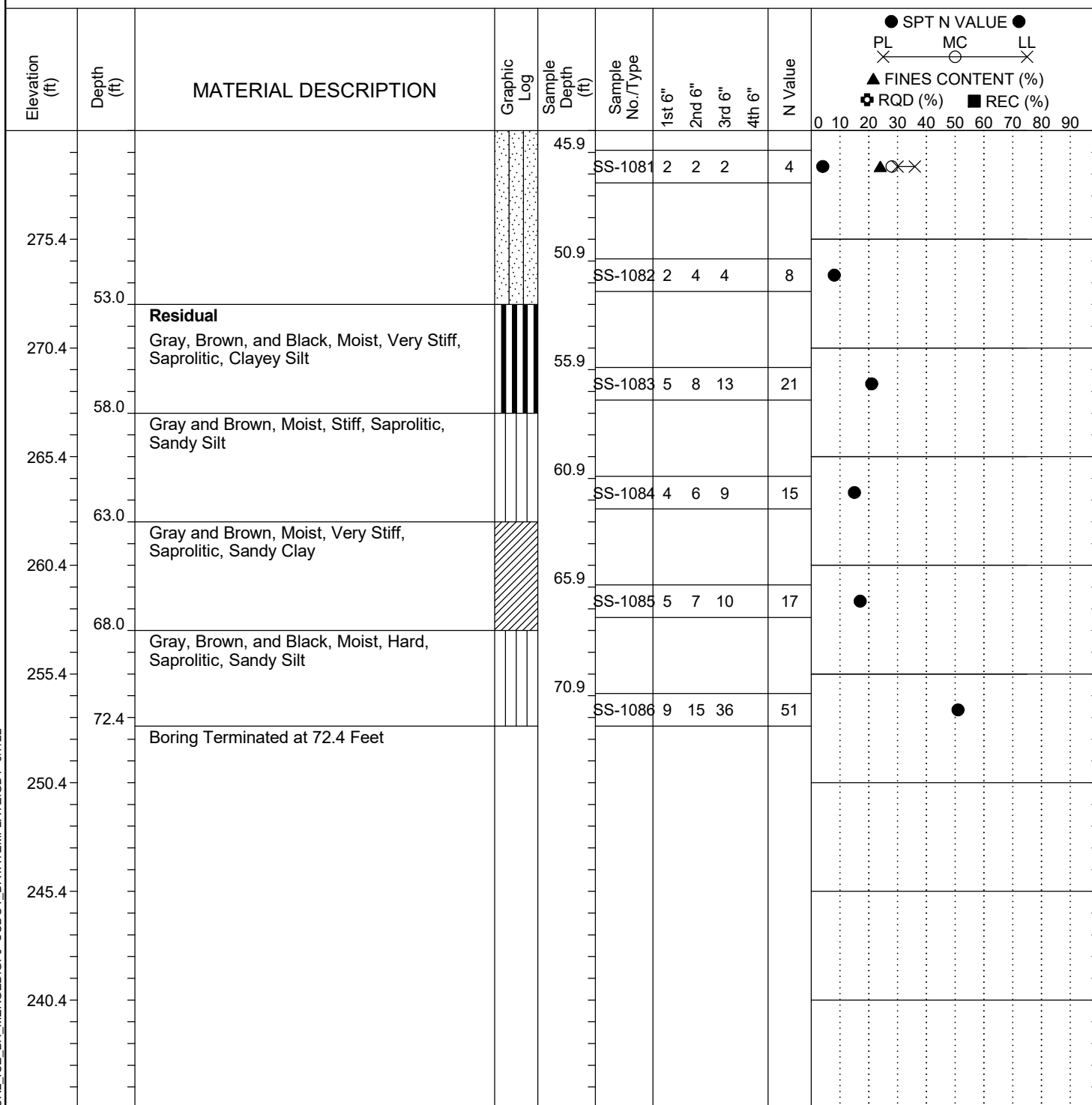
Project ID:	P039719	County:	Richland	Boring No.:	G-119
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Akland	Boring Location:	612+50	Offset:	38 RT
Elev.:	325.4 ft	Latitude:	34.03972499	Longitude:	-81.09422486
Total Depth:	72.4 ft	Soil Depth:	72.4 ft	Date Started:	3/22/2022
Core Depth:	N/A ft	Date Completed:	3/22/2022	Alignment:	US176WB
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	90.8%
Driller:	P. Mattis	Groundwater:	TOB	24HR	FIAD


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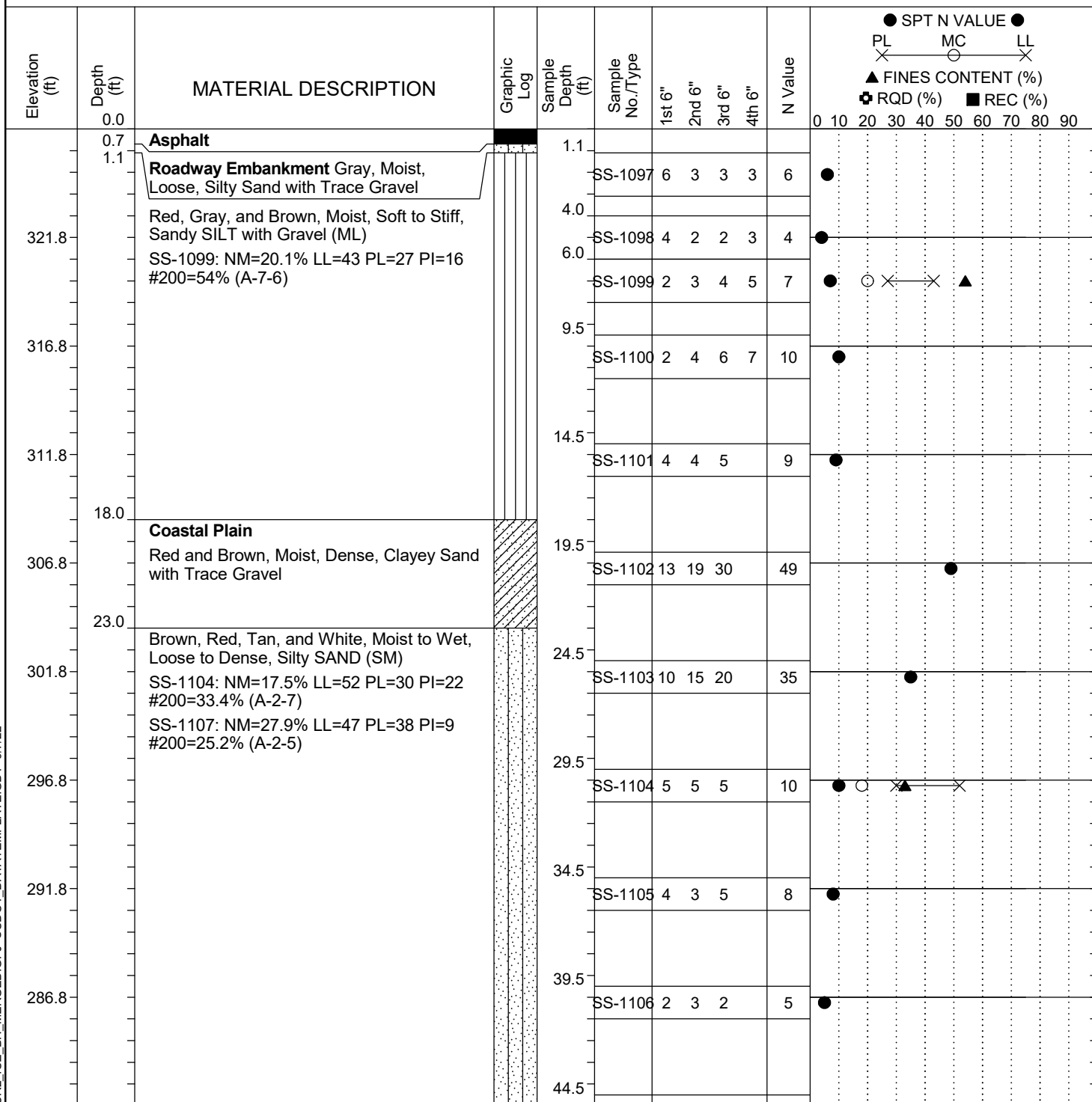
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID: P039719				County: Richland		Boring No.: G-119		
Site Description:		Carolina Crossroads Phase 2					Route: Broad River Rd.	
Eng./Geo.: M. Akland		Boring Location: 612+50		Offset: 38 RT		Alignment: US176WB		
Elev.: 325.4 ft		Latitude: 34.03972499		Longitude: -81.09422486		Date Started: 3/22/2022		
Total Depth: 72.4 ft		Soil Depth: 72.4 ft		Core Depth: N/A ft		Date Completed: 3/22/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #439		Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 90.8%		
Core Size: N/A		Driller: P. Mattis		Groundwater: TOB 16.8 ft		24HR FIAD		


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-120
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Akland	Boring Location:	613+00	Offset:	38 RT
Elev.:	326.8 ft	Latitude:	34.03963386	Longitude:	-81.09410131
Total Depth:	94.6 ft	Soil Depth:	94.6 ft	Date Started:	3/24/2022
Core Depth:	N/A ft	Date Completed:	3/24/2022	Alignment:	US176WB
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	90.8%
Driller:	P. Mattis	Groundwater:	TOB	24HR	FIAD

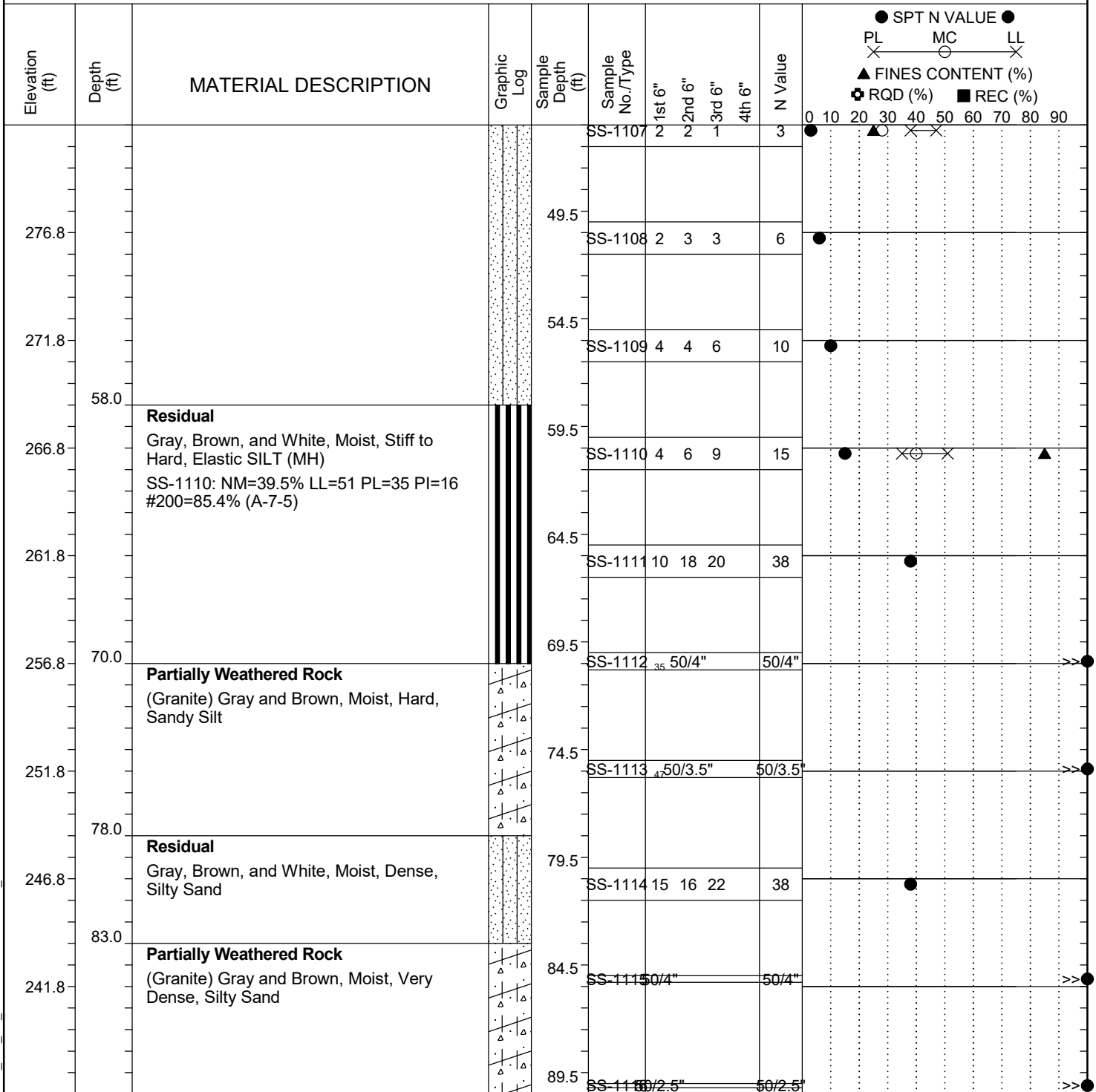


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID: P039719				County: Richland		Boring No.: G-120				
Site Description:		Carolina Crossroads Phase 2					Route:	Broad River Rd.		
Eng./Geo.: M. Akland		Boring Location:		613+00		Offset:	38 RT	Alignment:	US176WB	
Elev.:	326.8 ft	Latitude:	34.03963386	Longitude:	-81.09410131	Date Started:		3/24/2022		
Total Depth:		94.6 ft	Soil Depth:	94.6 ft	Core Depth:	N/A ft	Date Completed:		3/24/2022	
Bore Hole Diameter (in):		2.25	Sampler Configuration		Liner Required:		Y (N)	Liner Used:	Y (N)	
Drill Machine:		D-50 #439	Drill Method:		RW	Hammer Type:		Automatic	Energy Ratio:	90.8%
Core Size:		N/A	Driller:	P. Mattis		Groundwater:	TOB	4.3 ft	24HR	FIAD

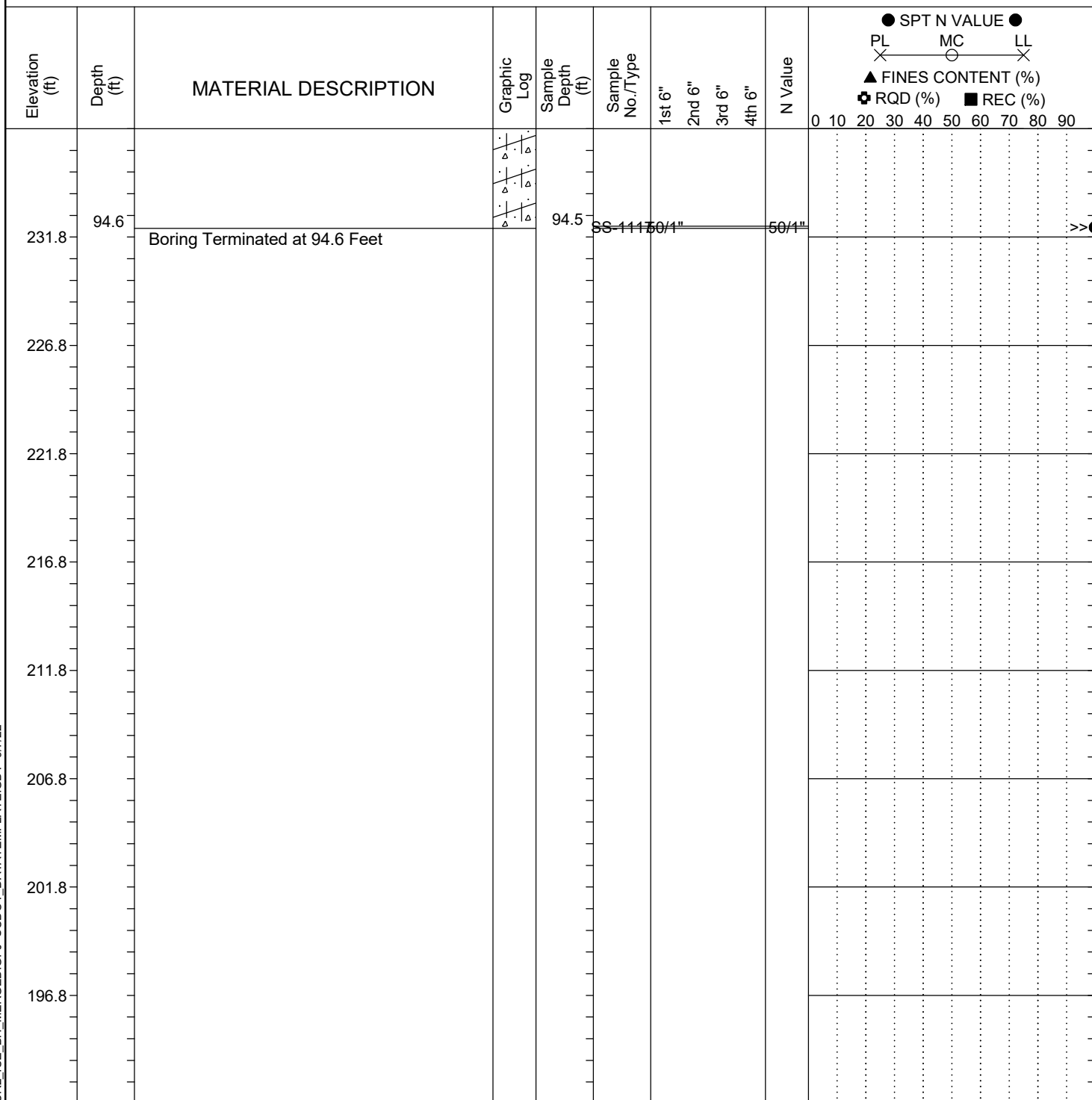


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

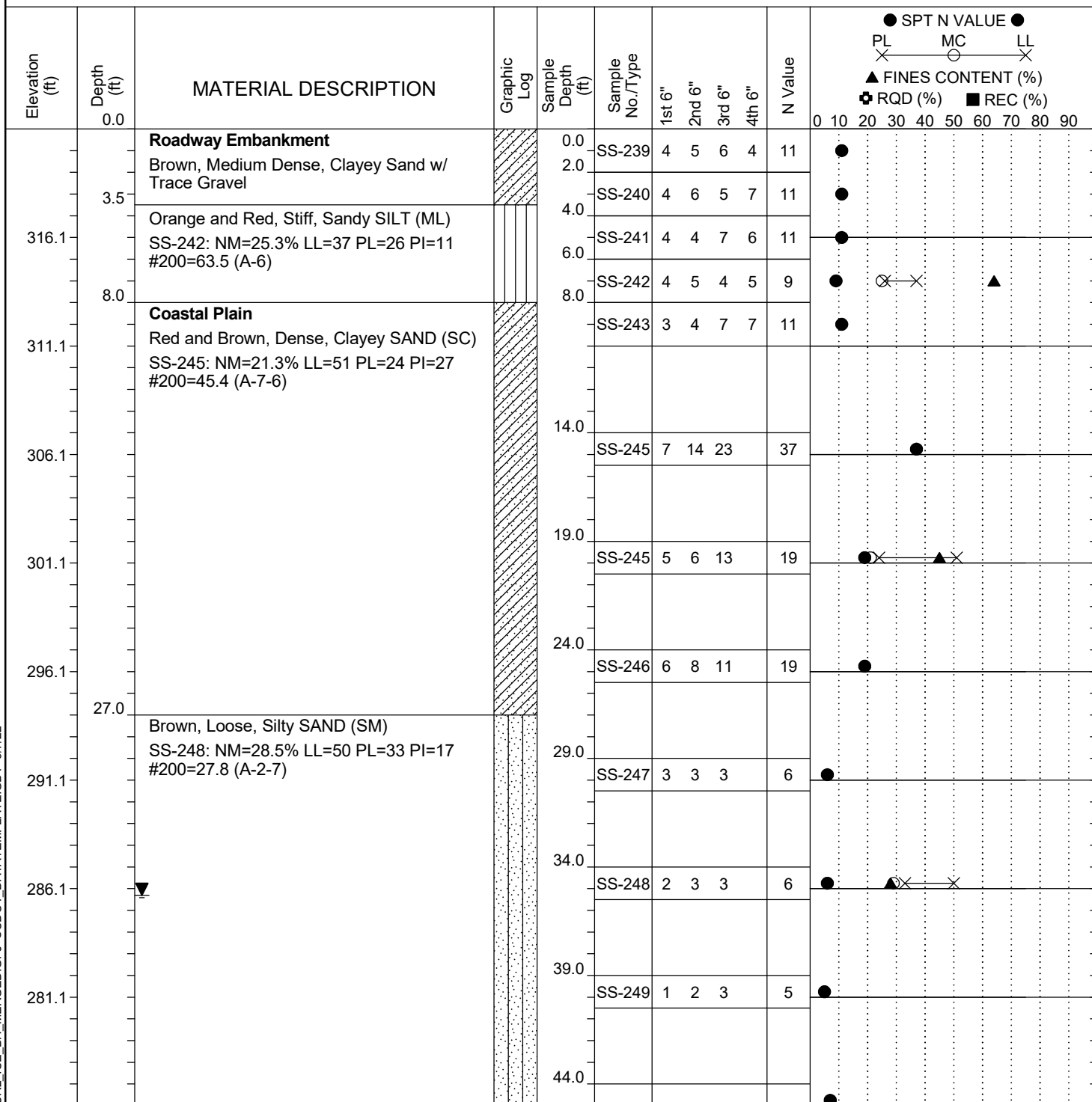
Project ID:	P039719	County:	Richland	Boring No.:	G-120
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Akland	Boring Location:	613+00	Offset:	38 RT
Elev.:	326.8 ft	Latitude:	34.03963386	Longitude:	-81.09410131
Total Depth:	94.6 ft	Soil Depth:	94.6 ft	Date Started:	3/24/2022
Core Depth:	N/A ft	Date Completed:	3/24/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	P. Mattis	Energy Ratio:	90.8%
		Groundwater:	TOB	4.3 ft	24HR FIAD



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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-121
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	612+67	Offset:	40 LT
Elev.:	321.1 ft	Latitude:	34.03985446	Longitude:	-81.09401208
Date Started:	3/2/2022				
Total Depth:	69.8 ft	Soil Depth:	69.8 ft	Core Depth:	N/A ft
Date Completed:	3/2/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Liner Used:	Y (N)				
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
24HR	35.3 ft				

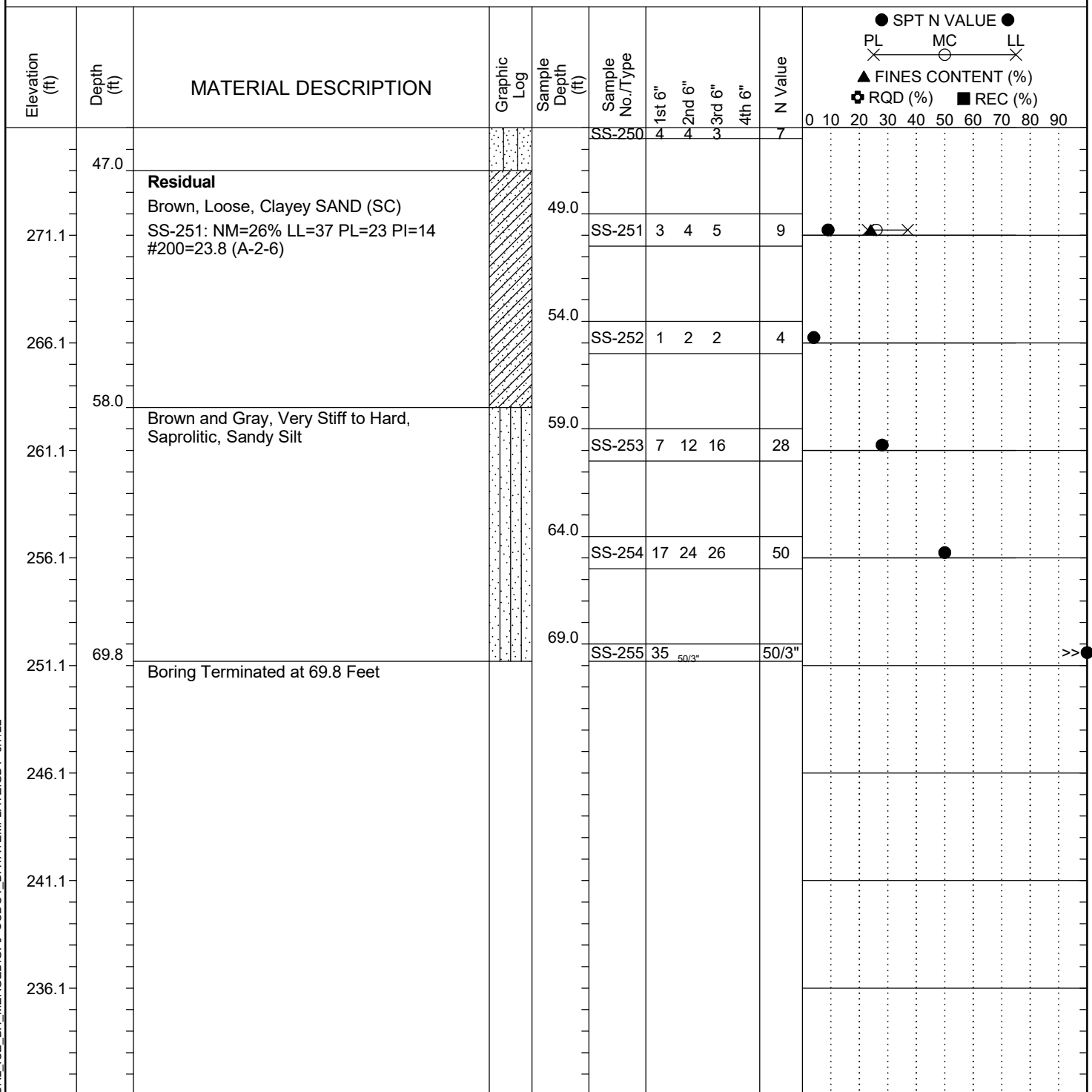


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

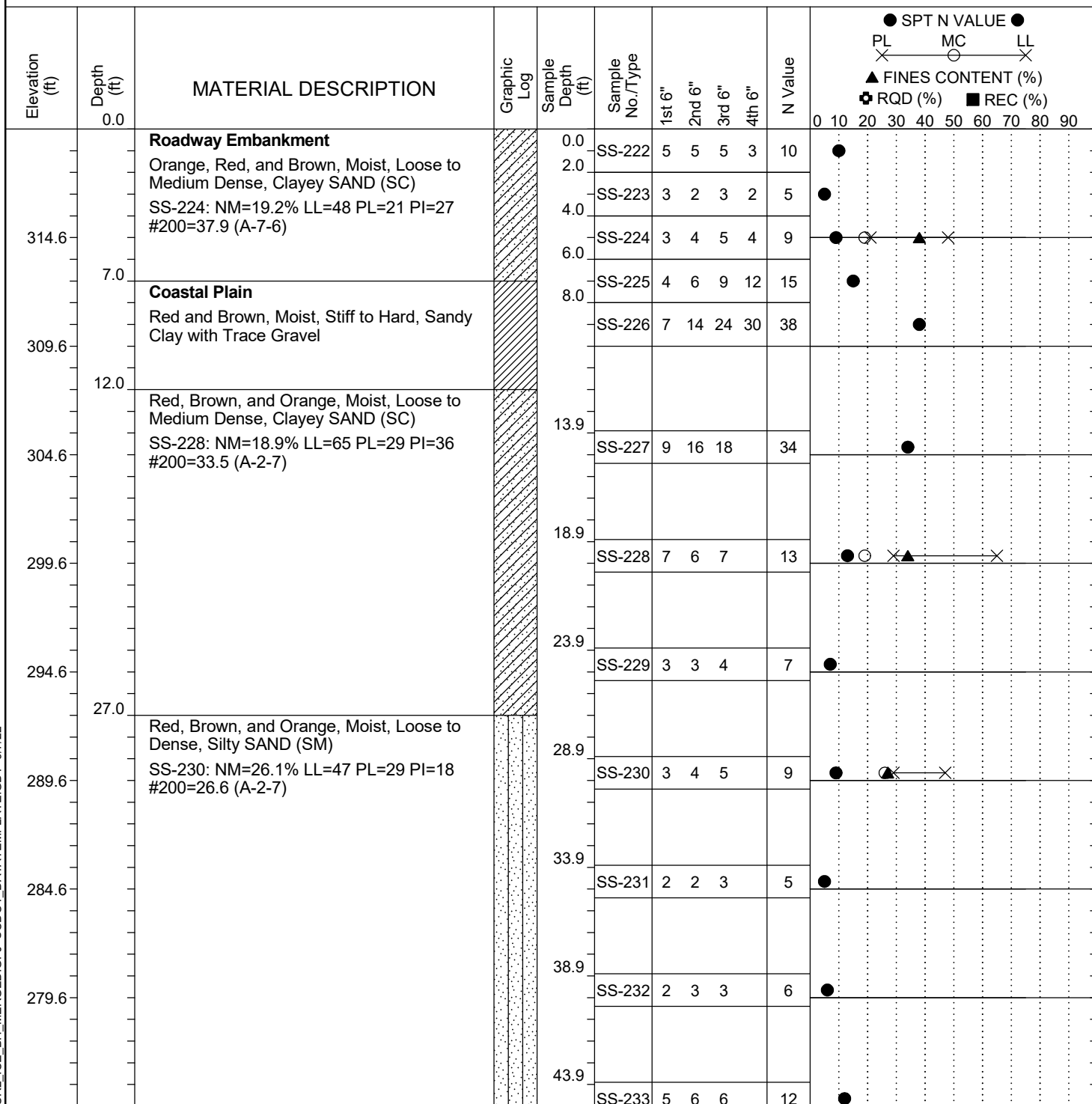
Project ID:	P039719	County:	Richland	Boring No.:	G-121
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	612+67	Offset:	40 LT
Elev.:	321.1 ft	Latitude:	34.03985446	Longitude:	-81.09401208
Total Depth:	69.8 ft	Soil Depth:	69.8 ft	Date Started:	3/2/2022
Core Depth:	N/A ft	Date Completed:	3/2/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Liner Used:	Y (N)				
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
24HR	35.3 ft				



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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-122
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	613+55	Offset:	51 ft
Elev.:	319.6 ft	Latitude:	34.03971669	Longitude:	-81.09377055
Total Depth:	89.6 ft	Soil Depth:	89.6 ft	Date Started:	3/1/2022
Core Depth:	N/A ft	Date Completed:	3/1/2022	Alignment:	US176WB
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	Dry

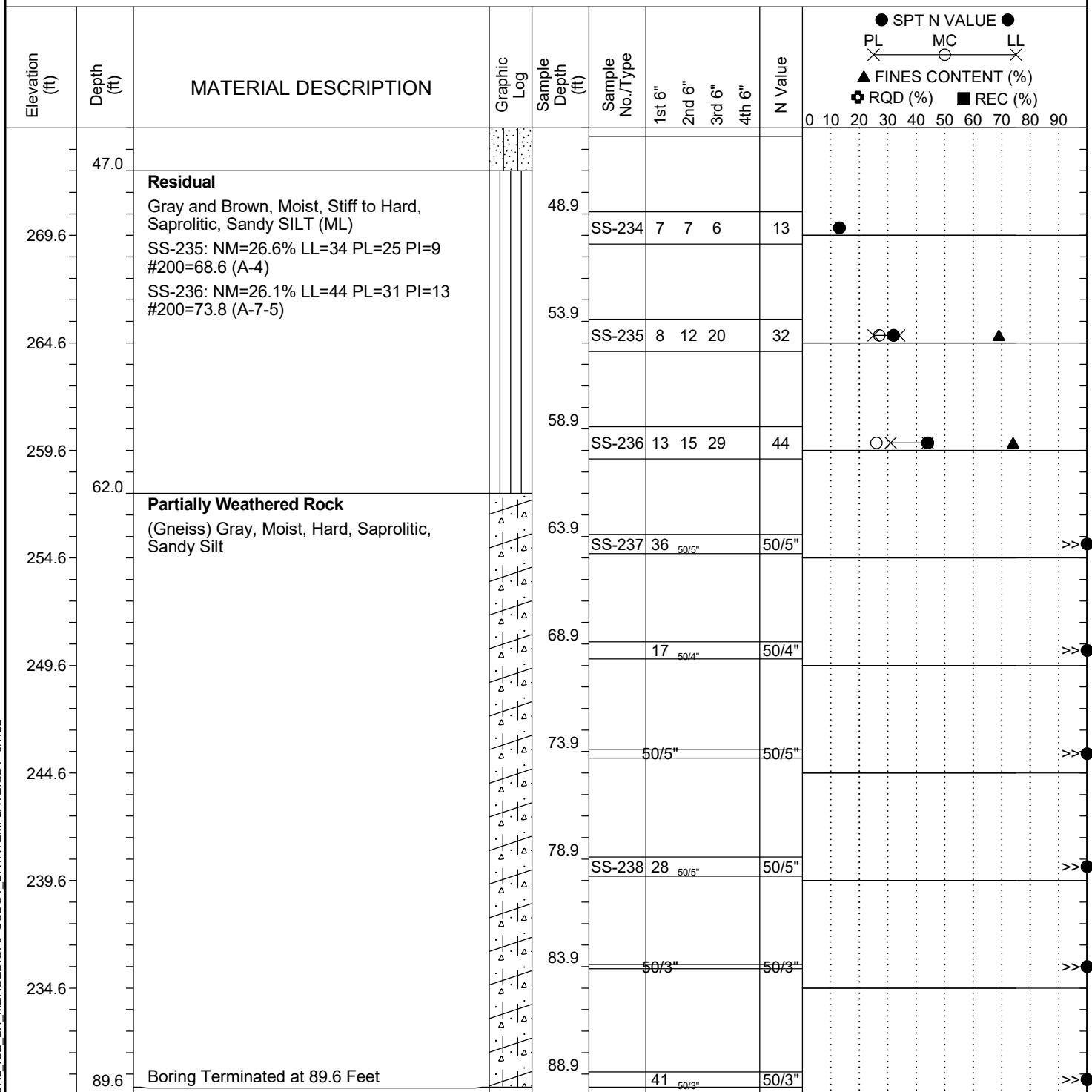


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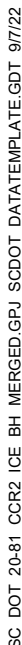
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID: P039719				County: Richland		Boring No.: G-122						
Site Description:		Carolina Crossroads Phase 2					Route:	Broad River Rd.				
Eng./Geo.: M. Stanbury		Boring Location:		613+55		Offset:	51 ft	Alignment:	US176WB			
Elev.:	319.6 ft	Latitude:	34.03971669	Longitude:	-81.09377055		Date Started:		3/1/2022			
Total Depth:		89.6 ft	Soil Depth:	89.6 ft	Core Depth:		N/A ft	Date Completed:		3/1/2022		
Bore Hole Diameter (in):		2.25	Sampler Configuration		Liner Required:		Y	(N)	Liner Used:	Y	(N)	
Drill Machine:		D-50 #439	Drill Method:		RW	Hammer Type:		Automatic		Energy Ratio:		90.8%
Core Size:		N/A	Driller:		R. Cassell		Groundwater:		TOB	N/A	24HR	Dry



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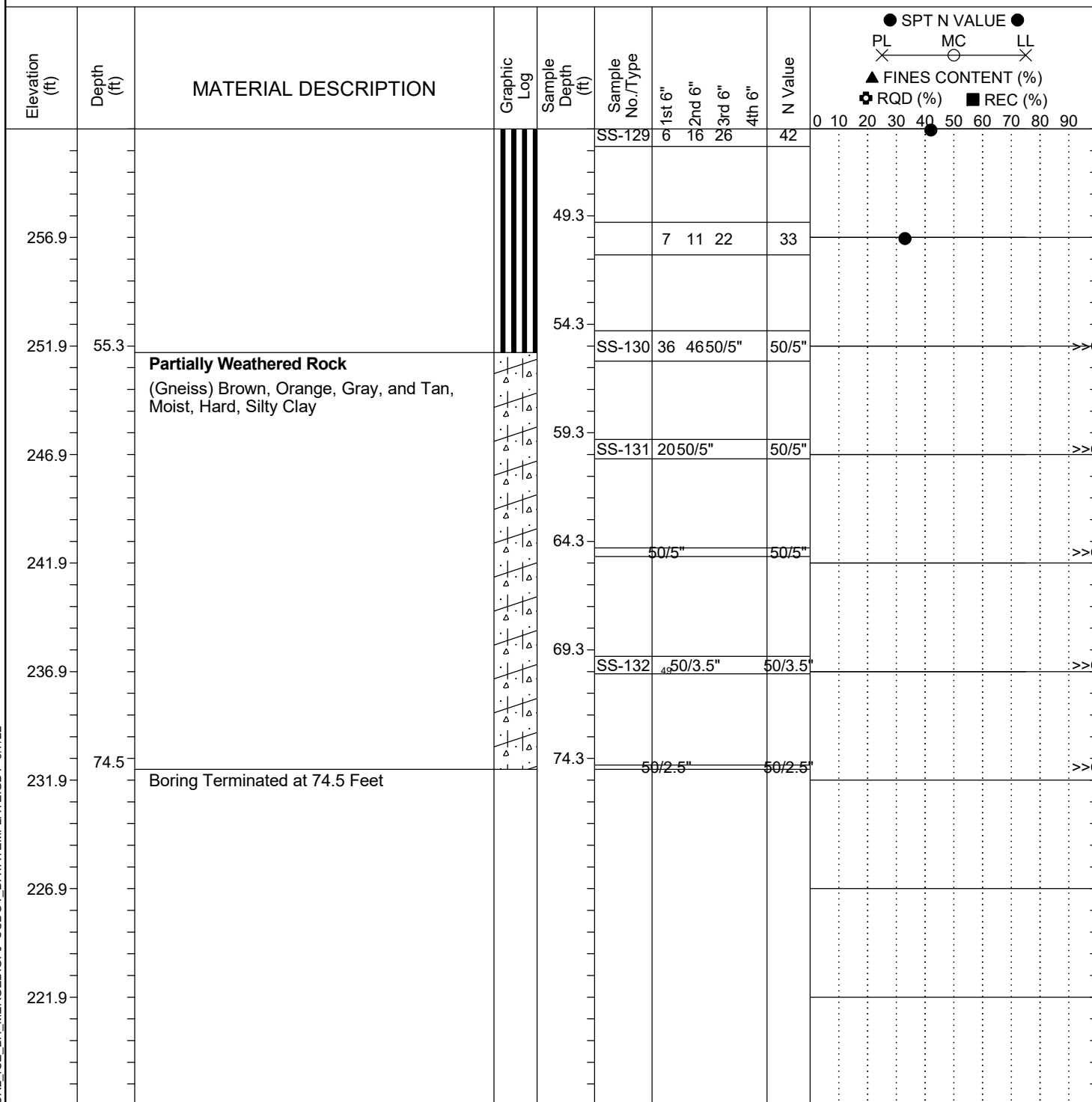
SAMPLER TYPE			DRILLING METHOD	
SS	- Split Spoon	NQ - Rock Core, 1-7/8"	HSA	- Hollow Stem Auger
UD	- Undisturbed Sample	CU - Cuttings	RW	- Rotary Wash
AWG	- Rock Core, 1-1/8"	CT - Continuous Tube	CFA	- Continuous Flight Augers
			DC	- Driving Casing
			RC	- Rock Core



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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

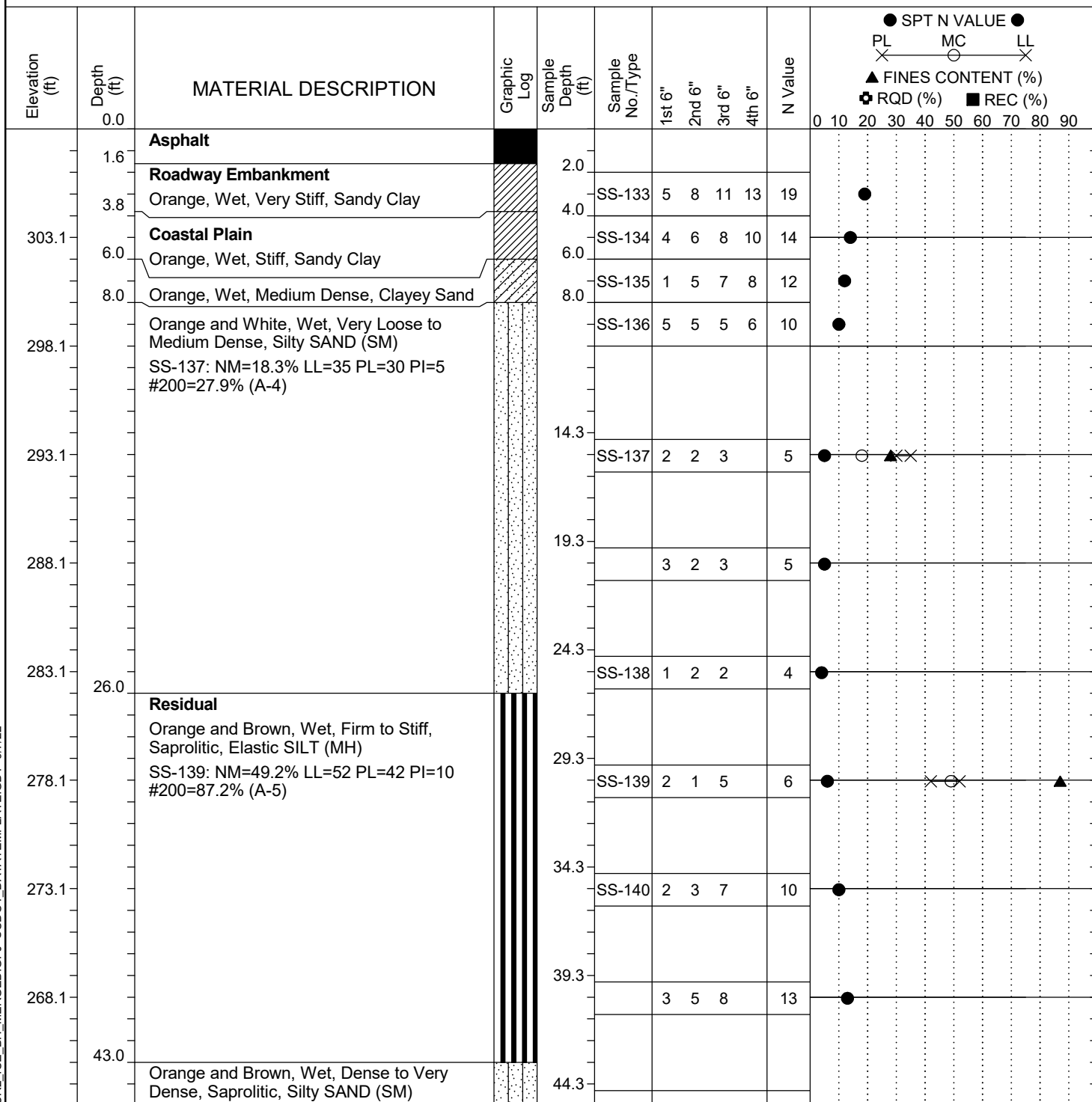
Project ID:			P039719				County:		Richland			Boring No.:		G-123		
Site Description:			Carolina Crossroads Phase 2									Route:		Broad River Rd.		
Eng./Geo.:		C. McIlroy		Boring Location:		614+27		Offset:		58 RT		Alignment:		US176WB		
Elev.:		306.9 ft		Latitude:		34.03936124		Longitude:		-81.09383128		Date Started:		3/14/2022		
Total Depth:		74.5 ft		Soil Depth:		74.5 ft		Core Depth:		N/A ft		Date Completed:		3/15/2022		
Bore Hole Diameter (in):			2.25		Sampler Configuration			Liner Required:			Y (N)		Liner Used:		Y (N)	
Drill Machine:		D-50 #435		Drill Method:		RW		Hammer Type:		Automatic		Energy Ratio:		84.4%		
Core Size:		N/A		Driller:		P. Mattis		Groundwater:		TOB N/A		24HR		FIAD		



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SAMPLER TYPE		DRILLING METHOD	
SS	- Split Spoon	HSA	- Hollow Stem Auger
UD	- Undisturbed Sample	CFA	- Continuous Flight Augers
AWG	- Rock Core, 1-1/8"	DC	- Driving Casing
NQ	- Rock Core, 1-7/8"	RW	- Rotary Wash
CU	- Cuttings	RC	- Rock Core
CT	- Continuous Tube		

Project ID:	P039719	County:	Richland	Boring No.:	G-124
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	614+58	Offset:	13 LT
Elev.:	308.1 ft	Latitude:	34.03945079	Longitude:	-81.09359924
Date Started:	3/15/2022				
Total Depth:	75.1 ft	Soil Depth:	75.1 ft	Core Depth:	N/A ft
Date Completed:	3/16/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Liner Used:	Y (N)				
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	84.4%				
Core Size:	N/A	Driller:	P. Mattis	Groundwater:	TOB N/A
24HR	FIAD				

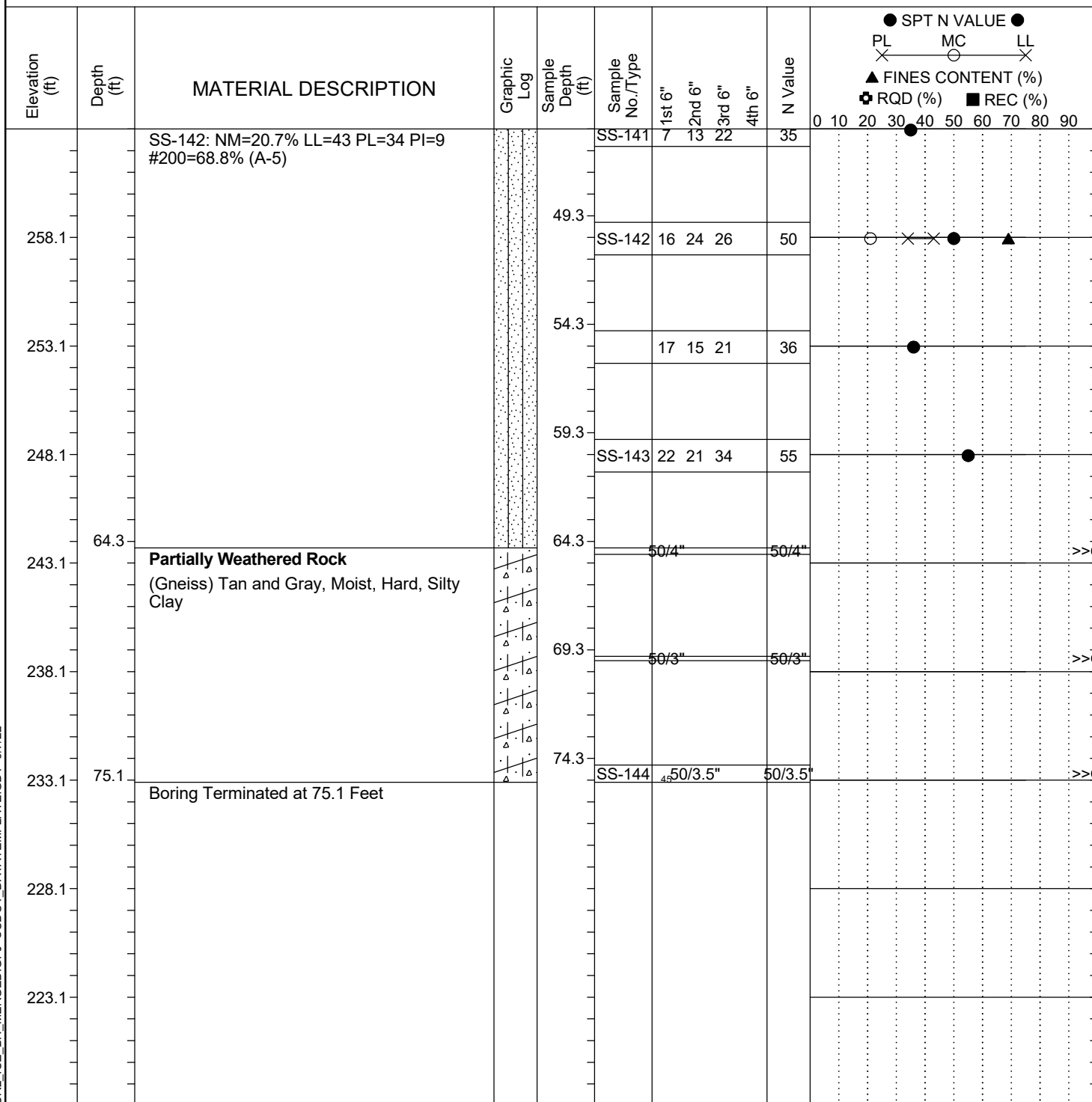


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

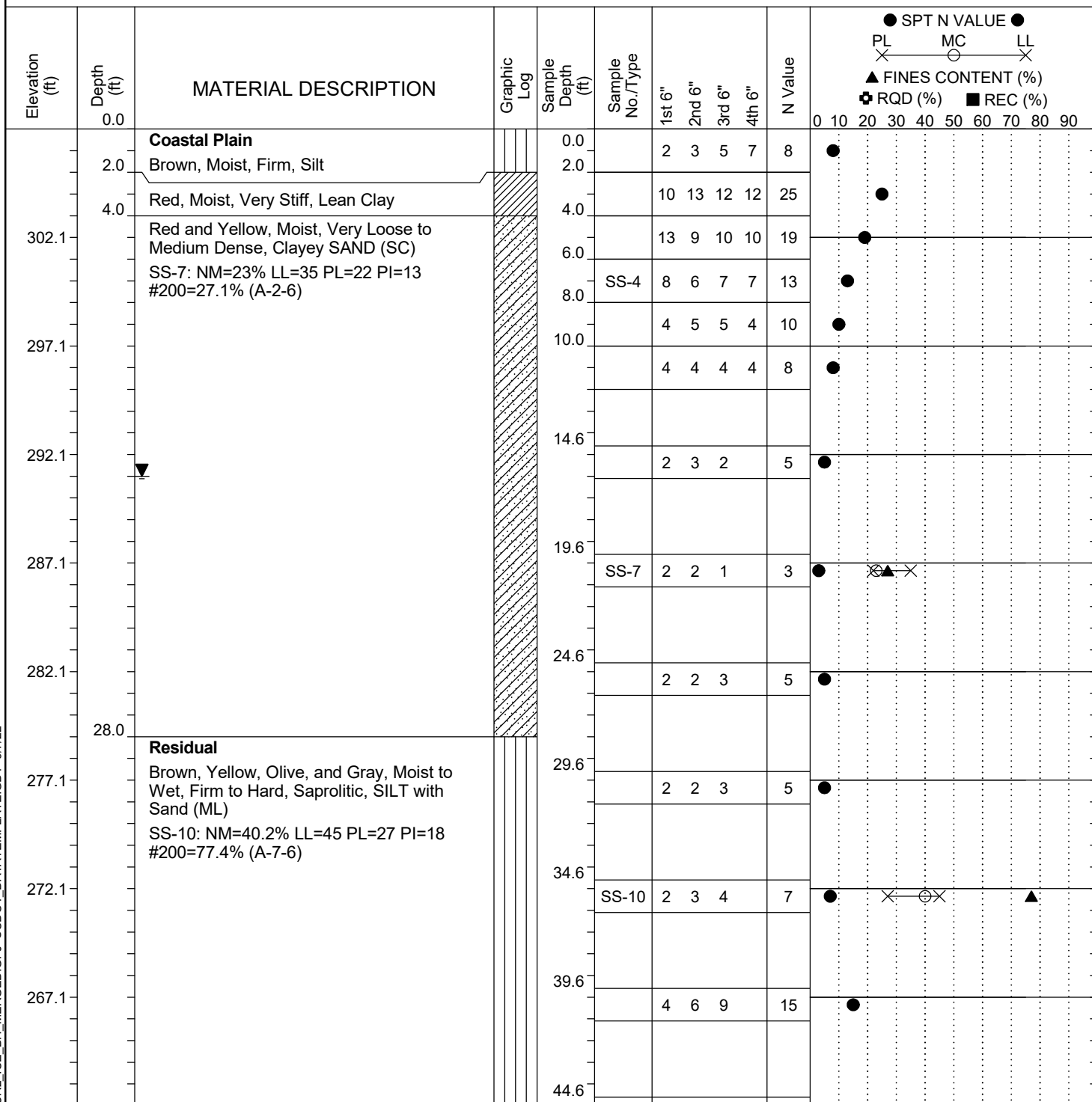
Project ID: P039719			County: Richland		Boring No.: G-124		
Site Description:		Carolina Crossroads Phase 2				Route:	Broad River Rd.
Eng./Geo.: C. McIlroy		Boring Location: 614+58		Offset: 13 LT	Alignment: US176WB		
Elev.: 308.1 ft	Latitude: 34.03945079	Longitude: -81.09359924		Date Started: 3/15/2022			
Total Depth: 75.1 ft	Soil Depth: 75.1 ft	Core Depth: N/A ft		Date Completed: 3/16/2022			
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)	Liner Used: Y (N)		
Drill Machine: D-50 #435	Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 84.4%		
Core Size: N/A	Driller: P. Mattis		Groundwater: TOB N/A		24HR FIAD		



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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-125
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	O. Daynes	Boring Location:	615+26	Offset:	58 RT
Elev.:	307.1 ft	Latitude:	34.0391808	Longitude:	-81.09358666
Total Depth:	74.9 ft	Soil Depth:	74.9 ft	Date Started:	3/1/2022
Core Depth:	N/A ft	Date Completed:	3/1/2022	Alignment:	US176WB
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	RW	Liner Used:	Y (N)
Hammer Type:	Automatic	Energy Ratio:	86%		
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB 10.6 ft
				24HR	16 ft

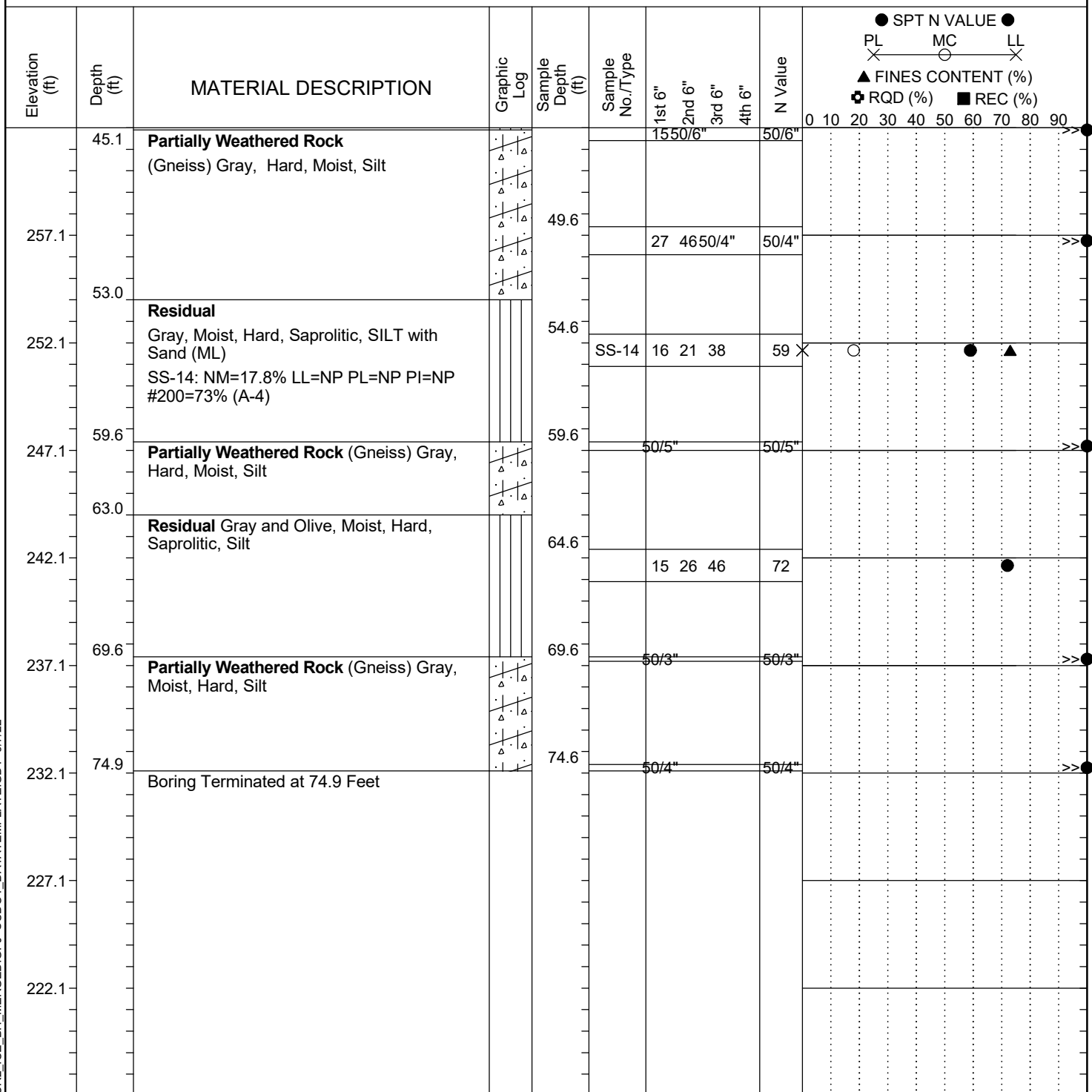


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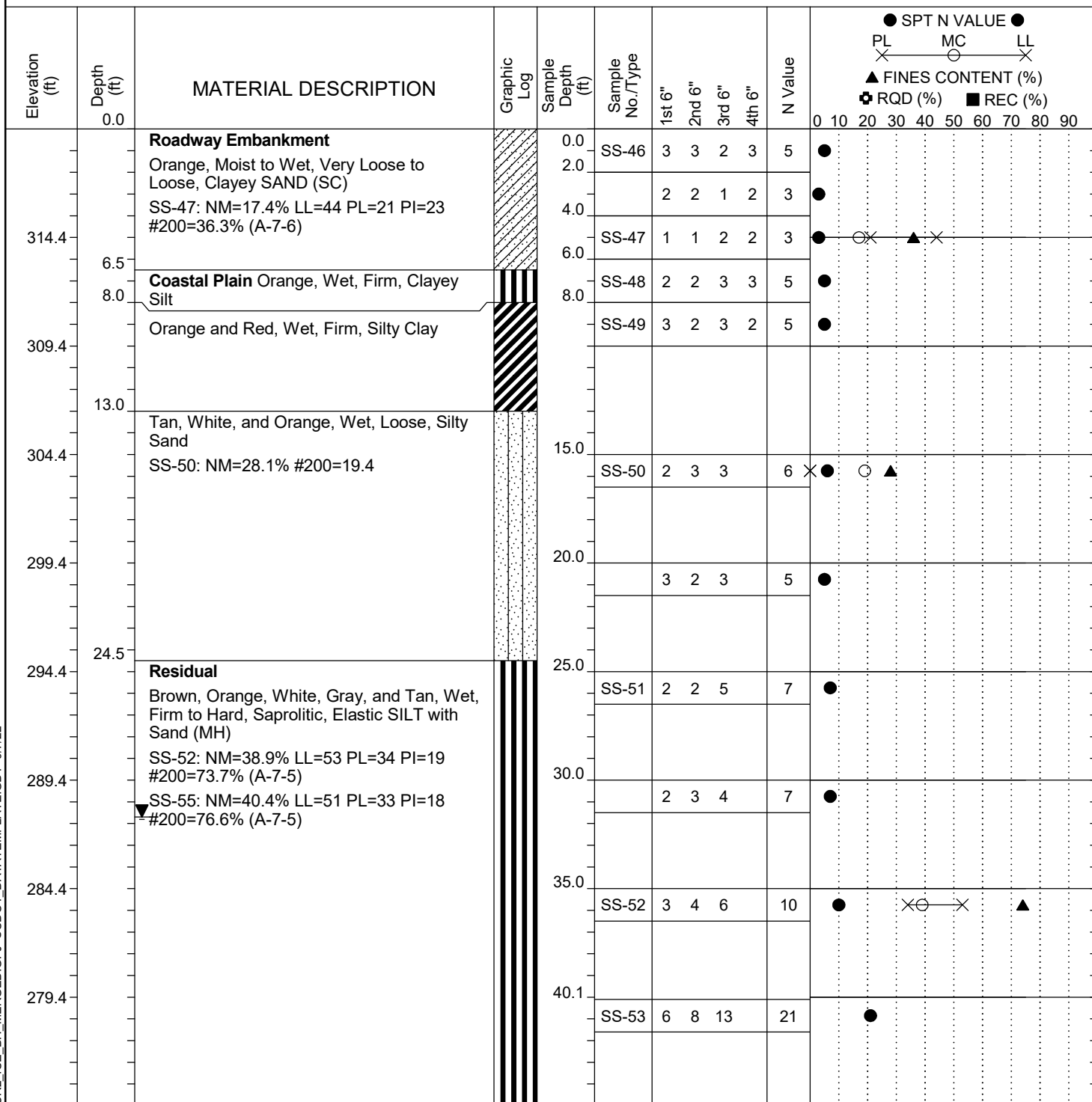
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID: P039719				County: Richland		Boring No.: G-125		
Site Description:		Carolina Crossroads Phase 2					Route:	Broad River Rd.
Eng./Geo.: O. Daynes		Boring Location: 615+26		Offset: 58 RT		Alignment: US176WB		
Elev.: 307.1 ft	Latitude: 34.0391808	Longitude: -81.09358666		Date Started:		3/1/2022		
Total Depth: 74.9 ft	Soil Depth: 74.9 ft	Core Depth: N/A ft		Date Completed:		3/1/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31	Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 86%			
Core Size: N/A	Driller: A. Fowler	Groundwater: TOB		10.6 ft	24HR	16 ft		


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SAMPLER TYPE		DRILLING METHOD	
SS	- Split Spoon	NQ	- Rock Core, 1-7/8"
UD	- Undisturbed Sample	CU	- Cuttings
AWG	- Rock Core, 1-1/8"	CT	- Continuous Tube
		HSA	- Hollow Stem Auger
		CFA	- Continuous Flight Augers
		DC	- Driving Casing
		RW	- Rotary Wash
		RC	- Rock Core

Project ID:	P039719	County:	Richland	Boring No.:	G-126
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	615+79	Offset:	53 LT
Elev.:	319.4 ft	Latitude:	34.03931253	Longitude:	-81.09321267
Total Depth:	95.1 ft	Soil Depth:	95.1 ft	Date Started:	3/2/2022
Core Depth:	N/A ft	Date Completed:	3/3/2022	Alignment:	US176WB
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	Casing w/ Adv	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	24HR	31.7 ft

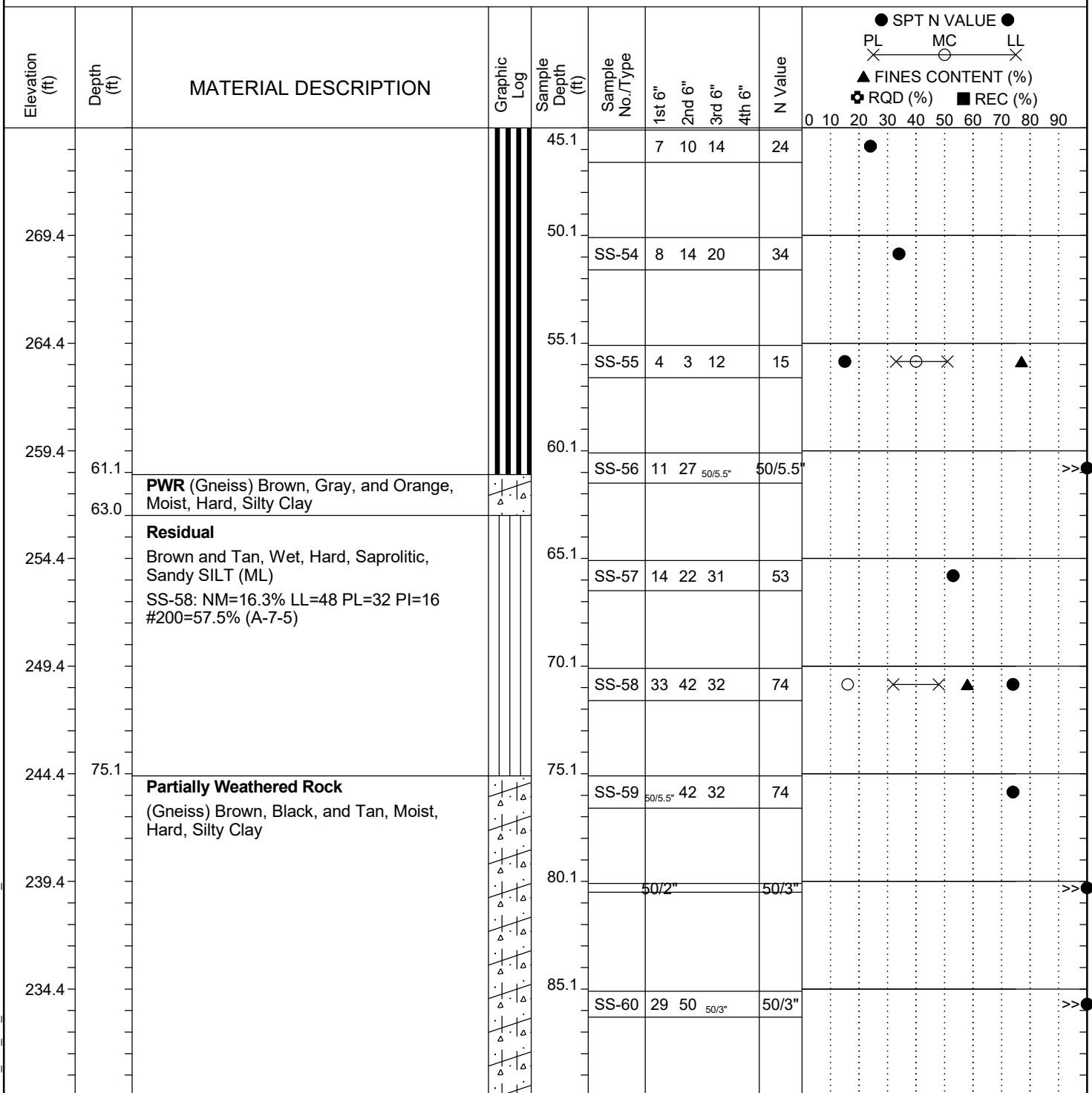


LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-126
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	615+79	Offset:	53 LT
Elev.:	319.4 ft	Latitude:	34.03931253	Longitude:	-81.09321267
Total Depth:	95.1 ft	Soil Depth:	95.1 ft	Date Started:	3/2/2022
Core Depth:	N/A ft	Date Completed:	3/3/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	Casing w/ Adv	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	24HR	31.7 ft

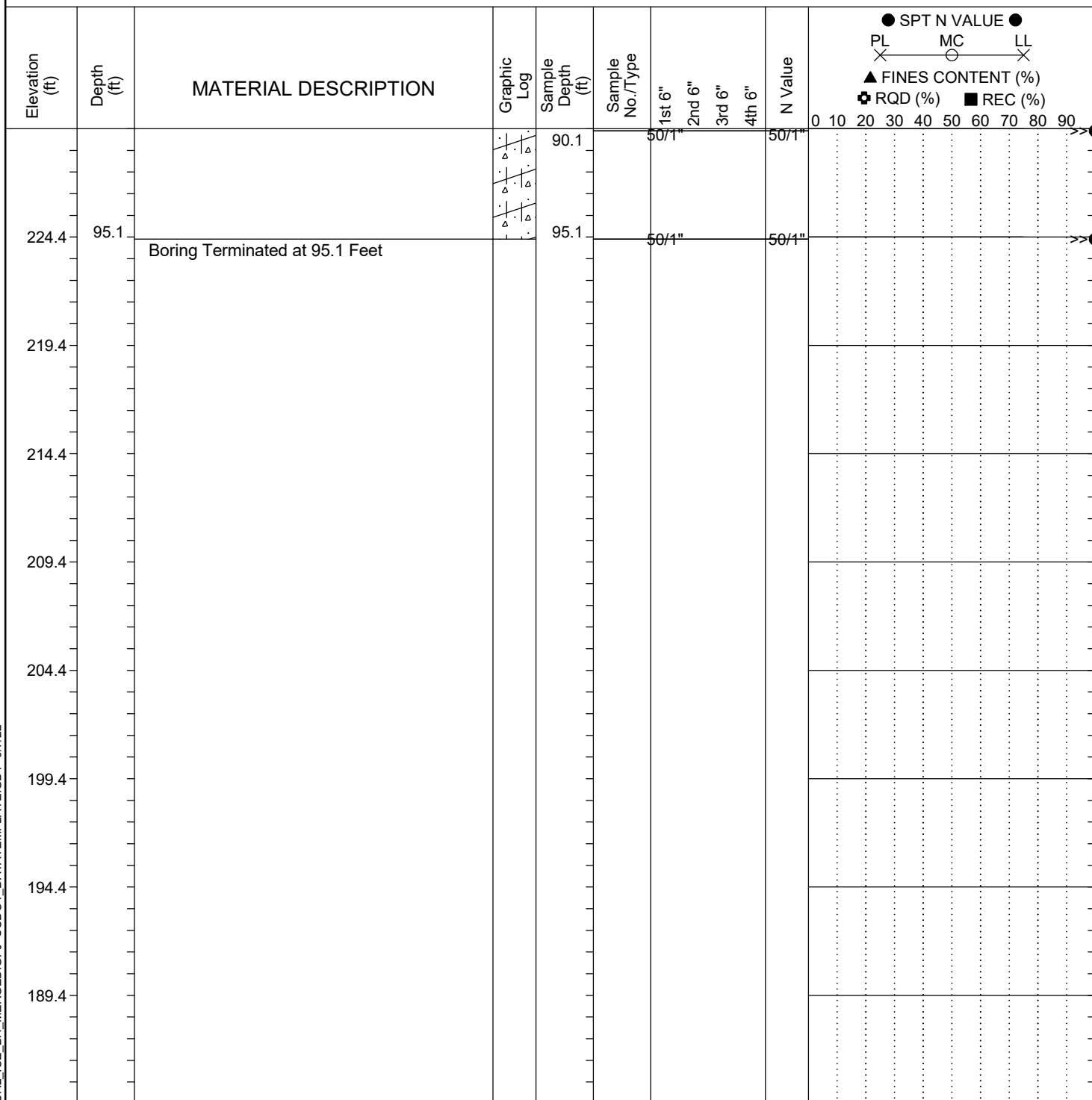


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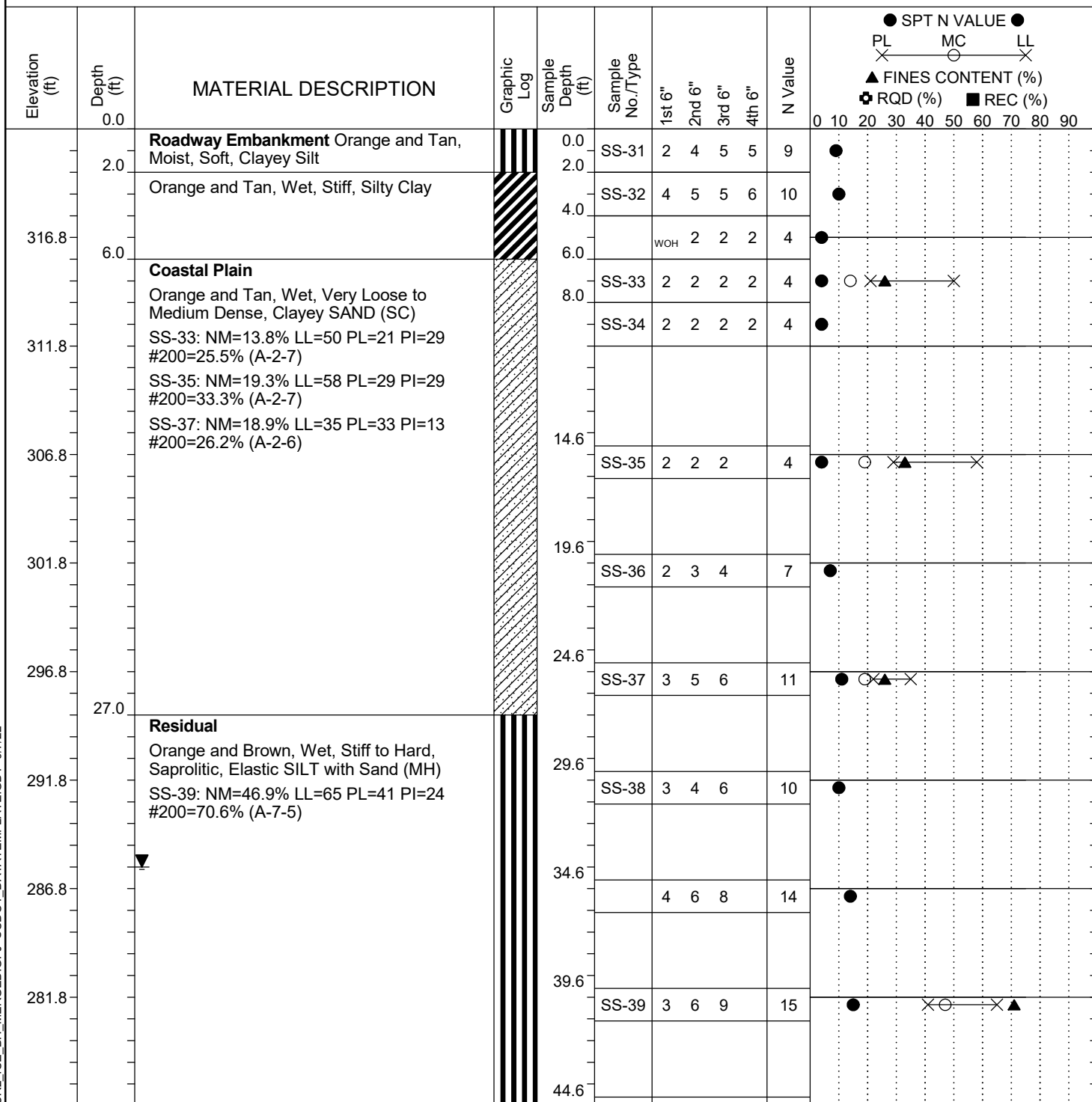
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-126
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	615+79	Offset:	53 LT
Elev.:	319.4 ft	Latitude:	34.03931253	Longitude:	-81.09321267
Total Depth:	95.1 ft	Soil Depth:	95.1 ft	Date Started:	3/2/2022
Core Depth:	N/A ft	Date Completed:	3/3/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	Casing w/ Adv	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	N/A	24HR
					31.7 ft


LEGEND

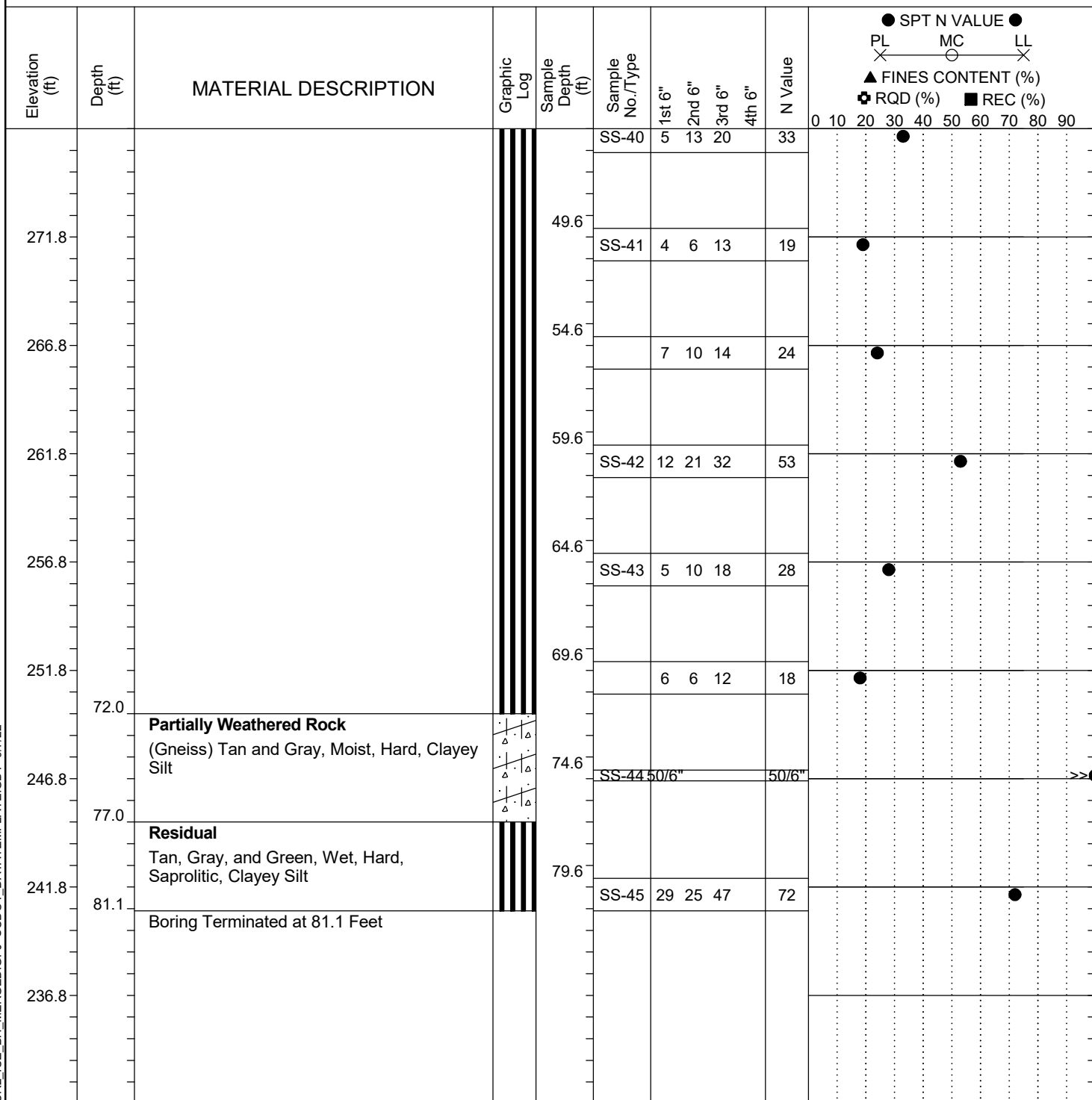
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-127
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	615+99	Offset:	49 LT
Elev.:	321.8 ft	Latitude:	34.03926754	Longitude:	-81.09317171
Total Depth:	81.1 ft	Soil Depth:	81.1 ft	Date Started:	3/1/2022
Core Depth:	N/A ft	Date Completed:	3/2/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	Casing w/ Adv	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	24HR	34 ft


LEGEND
Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:			P039719				County:		Richland			Boring No.:		G-127		
Site Description:			Carolina Crossroads Phase 2									Route:		Broad River Rd.		
Eng./Geo.:		C. McIlroy		Boring Location:		615+99		Offset:		49 LT		Alignment:		US176WB		
Elev.:		321.8 ft		Latitude:		34.03926754		Longitude:		-81.09317171		Date Started:		3/1/2022		
Total Depth:		81.1 ft		Soil Depth:		81.1 ft		Core Depth:		N/A ft		Date Completed:		3/2/2022		
Bore Hole Diameter (in):			2.25		Sampler Configuration			Liner Required:			Y (N)		Liner Used:		Y (N)	
Drill Machine:		D-50 #435		Drill Method:		Casing w/ Adv		Hammer Type:		Automatic		Energy Ratio:		84.4%		
Core Size:		N/A		Driller:		M. Morgan		Groundwater:		TOB N/A		24HR		34 ft		


LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

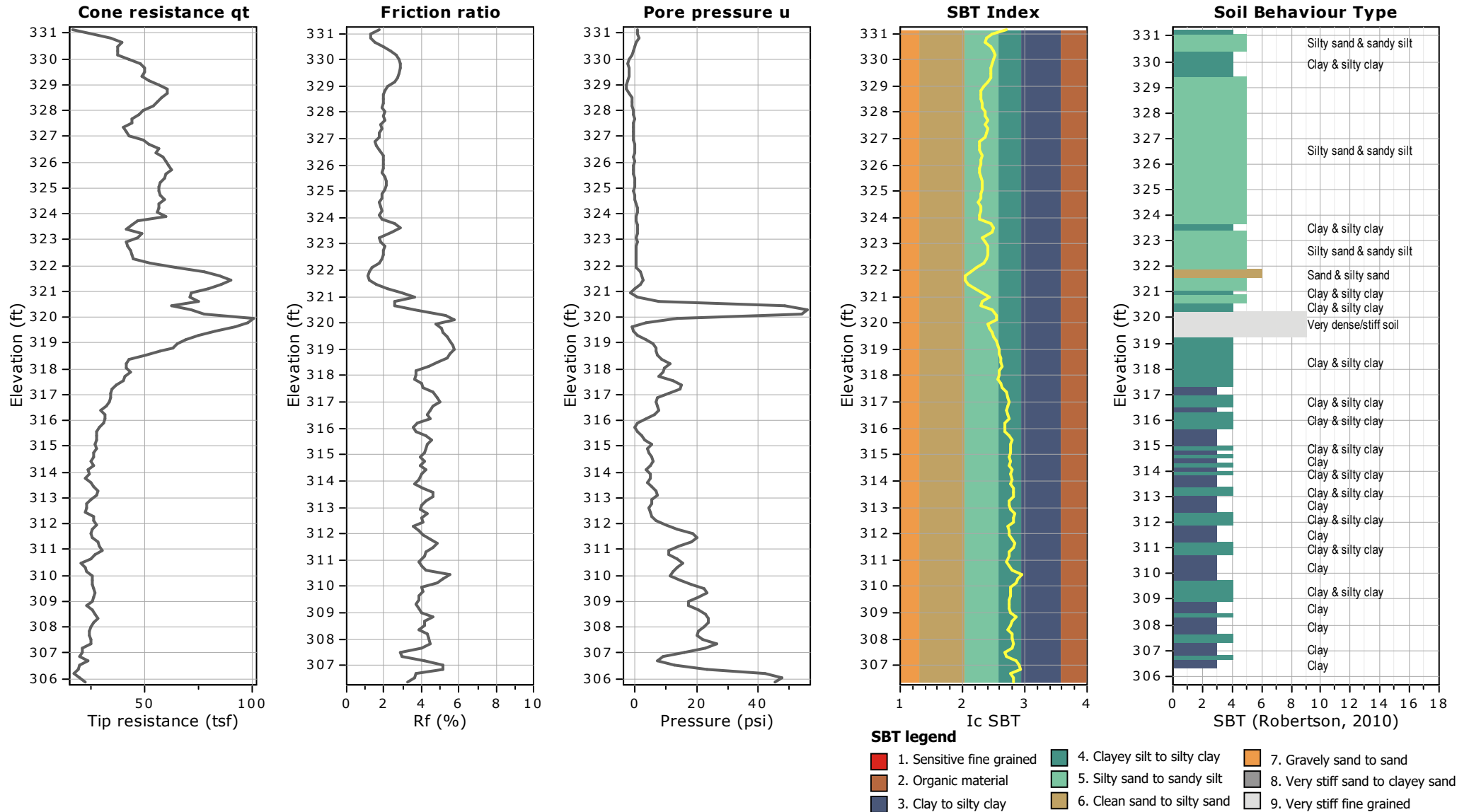
Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX A – BRIDGE 42A

SECTION 2 FIELD TESTING LOGS

SECTION 2B CPT LOGS



Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX A – BRIDGE 42A

SECTION 3 LABORATORY TEST RESULTS

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX A – BRIDGE 42A

SECTION 3 LABORATORY TEST RESULTS

SECTION 3A SPLIT-SPOON SAMPLES

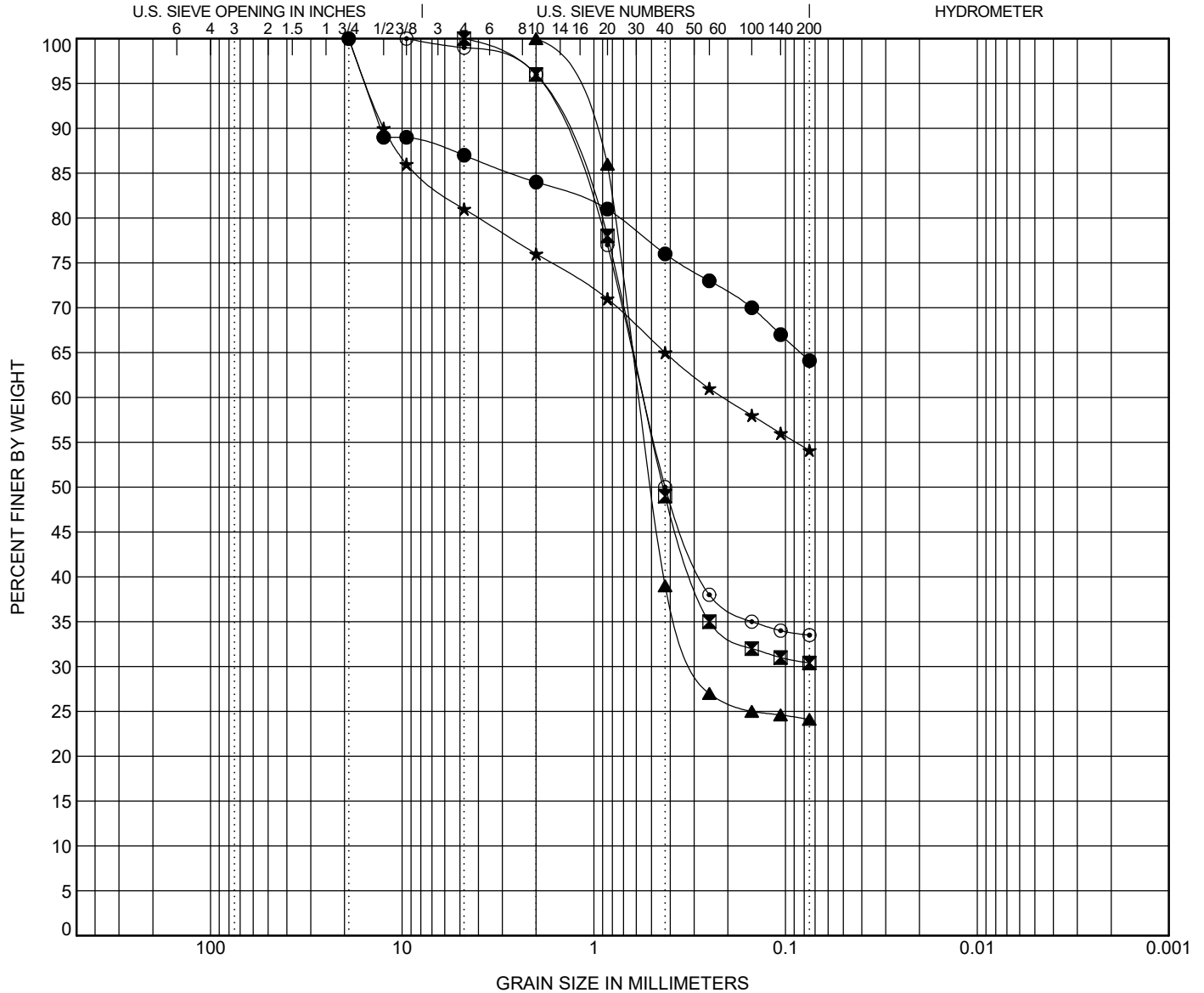


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-119	8.9	SANDY SILT(ML)					40	28	12		
☒ G-119	30.9	SILTY SAND(SM)					37	27	10		
▲ G-119	45.9	SILTY SAND(SM)					36	30	6		
★ G-120	6.0	SANDY SILT with GRAVEL(ML)					43	27	16		
◎ G-120	29.5	SILTY SAND(SM)					52	30	22		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-119	8.9	19				13.0	22.9	64.1			
☒ G-119	30.9	4.75	0.553			0.0	69.6	30.4			
▲ G-119	45.9	2	0.579	0.285		0.0	75.9	24.1			
★ G-120	6.0	19	0.211			19.0	26.9	54.1			
◎ G-120	29.5	9.5	0.549			1.0	65.5	33.5			

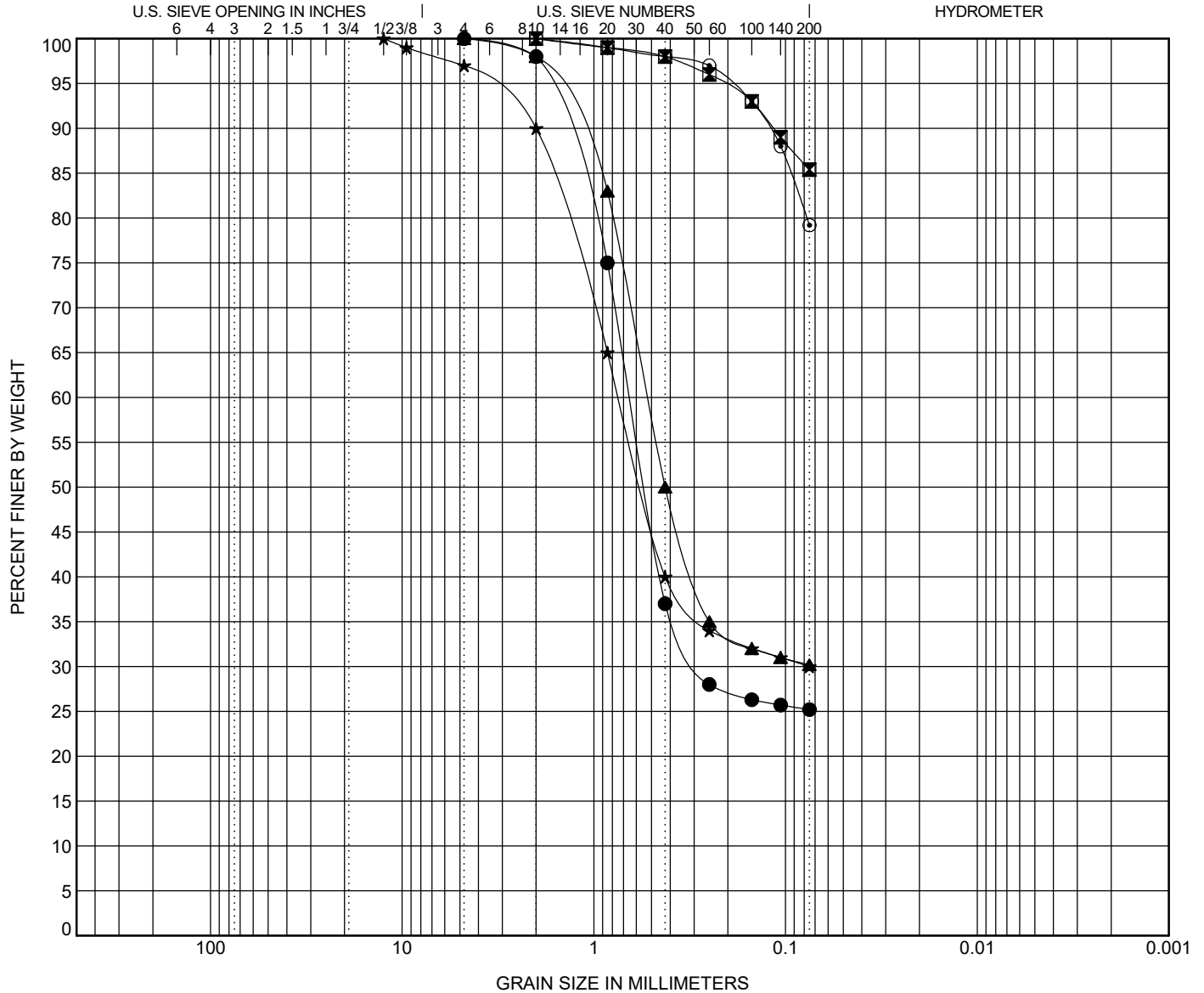


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-120	44.5	SILTY SAND(SM)					47	38	9		
■ G-120	59.5	ELASTIC SILT(MH)					51	35	16		
▲ G-123	8.0	SILTY SAND(SM)					32	25	7		
★ G-123	19.3	SILTY SAND(SM)					44	35	9		
◎ G-123	34.3	ELASTIC SILT with SAND(MH)					50	38	12		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-120	44.5	4.75	0.647	0.281		0.0	74.8	25.2			
■ G-120	59.5	2				0.0	14.6	85.4			
▲ G-123	8.0	4.75	0.524			0.0	69.8	30.2			
★ G-123	19.3	12.5	0.74	0.075		3.0	67.0	30.0			
◎ G-123	34.3	2				0.0	20.8	79.2			

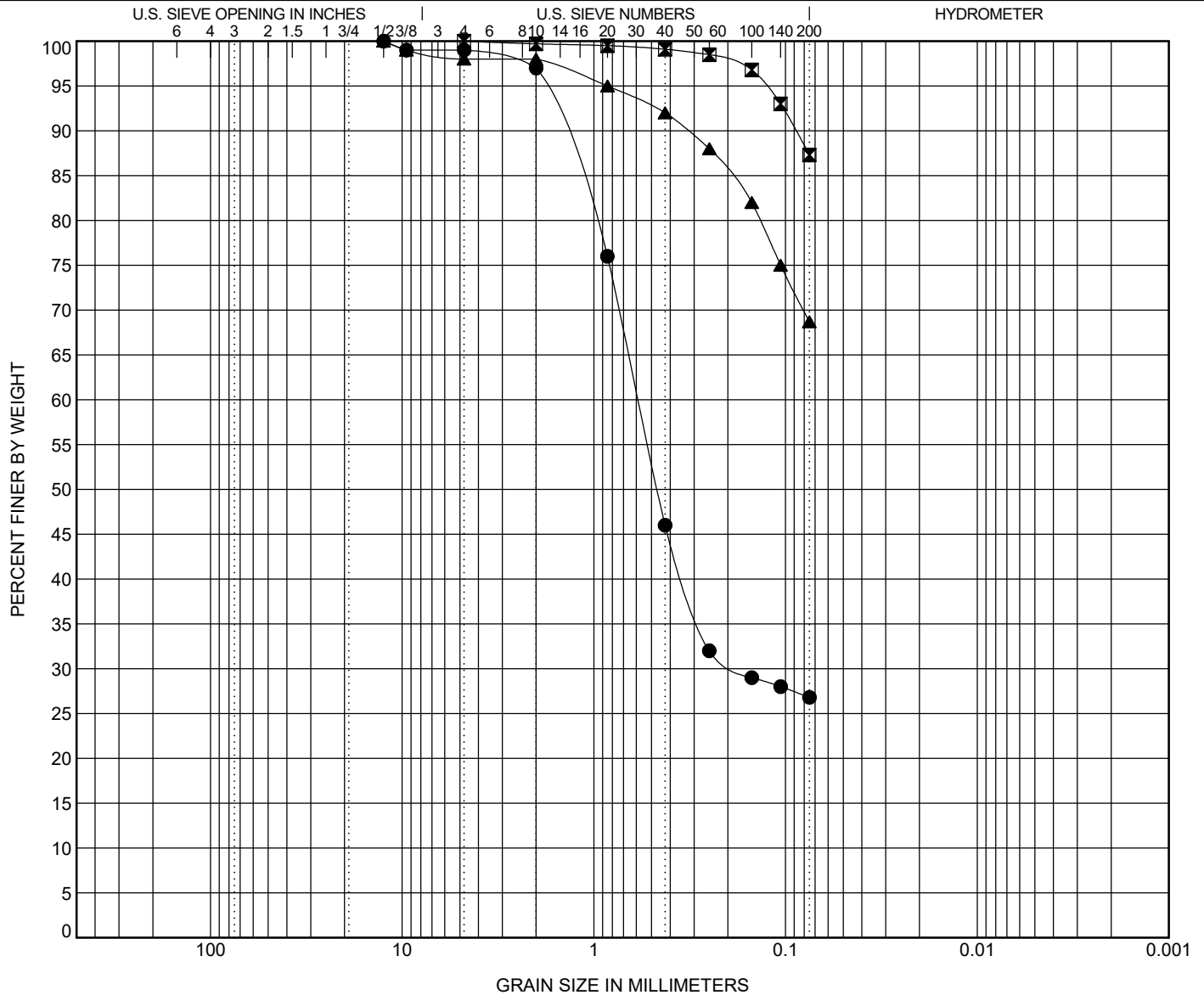


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

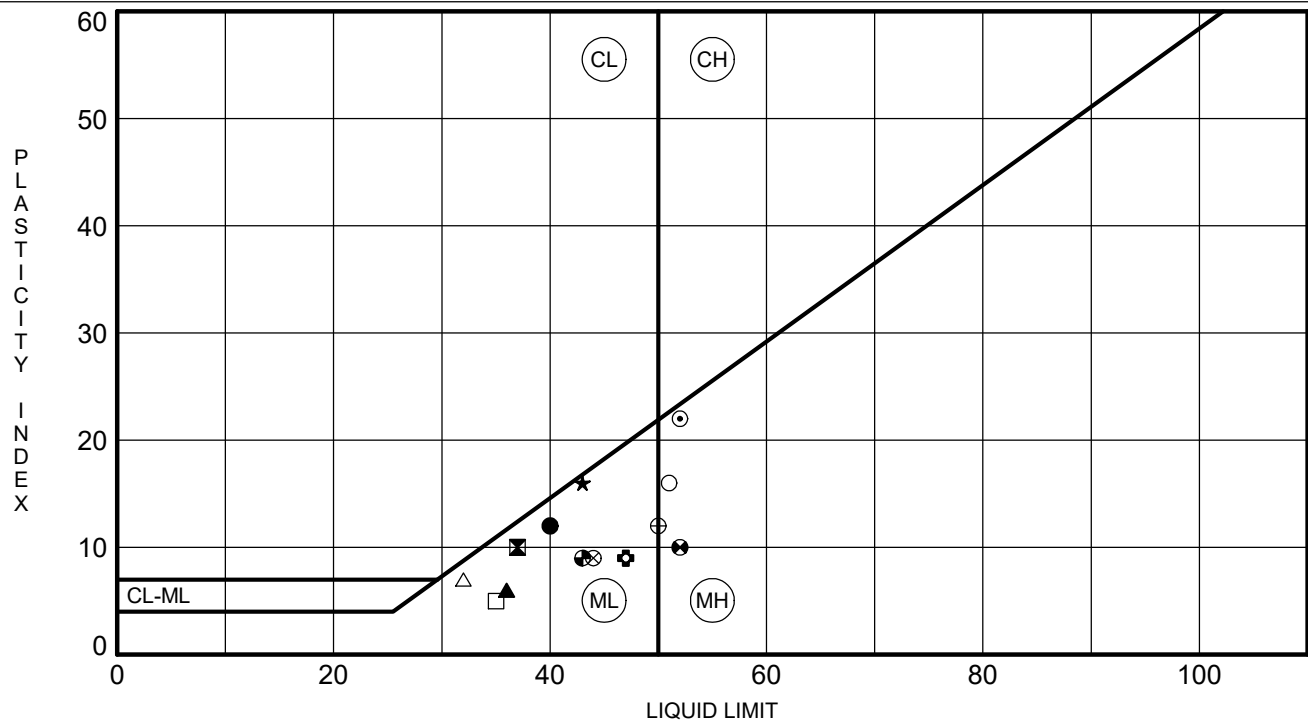
PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland





PROJECT COUNTY Richland

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TTTERBERG LIMITS 20-81_CCR2_ICE_BH_MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 9/7/22

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX A – BRIDGE 42A

SECTION 3 LABORATORY TEST RESULTS

SECTION 3B SHELBY TUBE SAMPLES

Shelby Tubes

Boring	Sample	Depth (ft)	USCS	Origin	LL	PI	NMC (%)	ϕ (deg)	c (psf)	ϕ' (deg)	c' (psf)	C _c	C _r	C _v (ft ² /day)	OCR	e ₀
G-129	ST-1	20.0-22.0	SC	Coastal Plain	59	36	14.7	9.9	1195	34.3	173	-	-	-	-	-
G-129	ST-2	22.0-24.0	SC	Coastal Plain	59	36	14.7	-	-	-	-	0.185	0.010	1.5	0.9	0.636
G-138	ST-1	22.0-24.0	MH	Residual	55	17	36.4	17.3	634	28.2	461	-	-	-	-	-
G-138	ST-2	24.0-26.0	MH	Residual	55	17	36.4	-	-	-	-	0.528	0.023	0.8	3.4	1.013

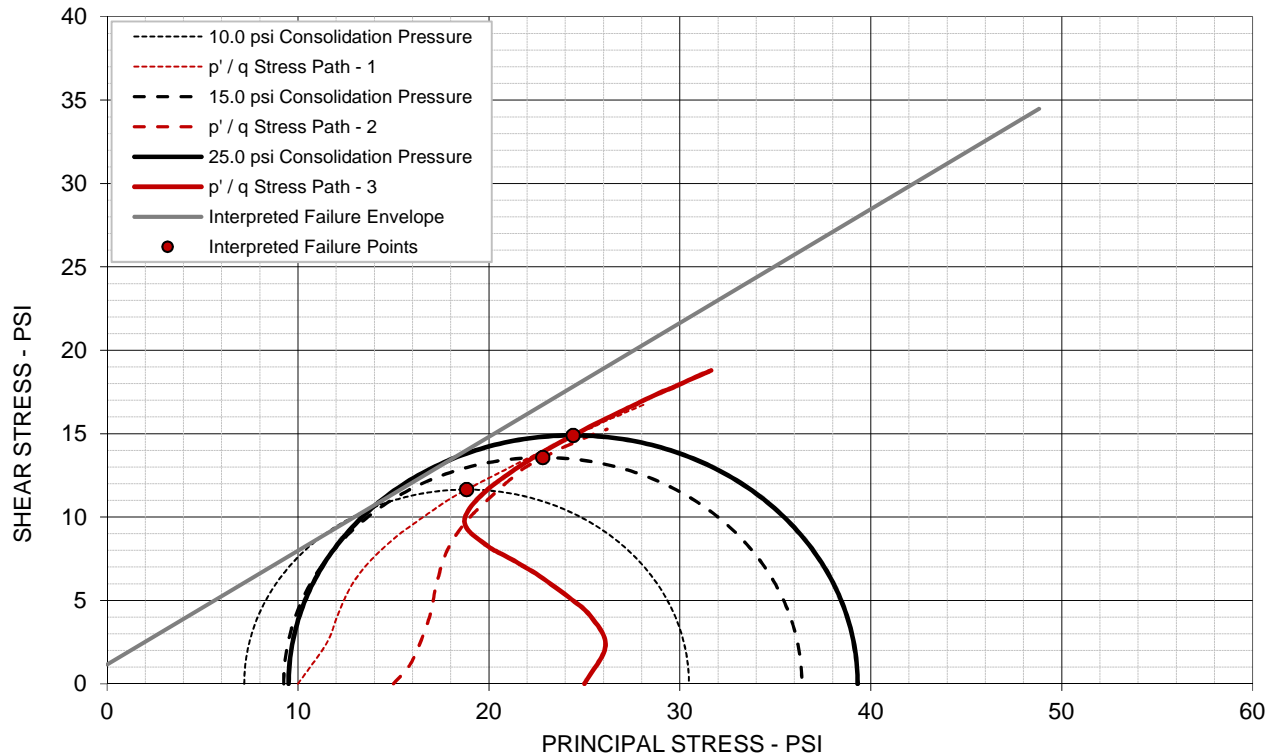
Recompacted Triaxials (Proposed Borrow)

Boring	Sample	Depth (ft)	USCS	Origin	LL	PI	NMC (%)	MDD (pcf)	OMC (%)	ϕ (deg)	c (psf)	ϕ' (deg)	c' (psf)
G-022	Bulk	0.0-5.0	SC	Coastal Plain	56	28	14.4	106.4	19.3	12.9	720	29.8	331
G-044	Bulk	0.0-10.0	CH	Coastal Plain	65	36	18.6	103.3	20.1	26.5	187	33.7	331
G-048	Bulk	0.0-5.0	CH	Coastal Plain	66	35	24.5	97.8	22.8	26.7	58	31.2	216
G-026	Bulk	0.0-15.0	MH	Coastal Plain	64	28	26.9	91.8	26.2	18.9	403	30.6	216
G-023	Bulk	0.0-15.0	SC	Coastal Plain/Residual	46	28	12.2	111.2	15.4	13.4	461	34.8	115
G-024	Bulk	0.0-15.0	CH	Coastal Plain/Residual	66	39	21.0	104.3	19.9	10.7	648	31.6	230
G-104	Bulk	0.0-10.0	CL	Ex. Roadway Embankment	41	16	21.6	107.3	14.7	18.9	274	30.5	130

ICU TRIAXIAL COMPRESSION TEST

ASTM D4767 / AASHTO T297

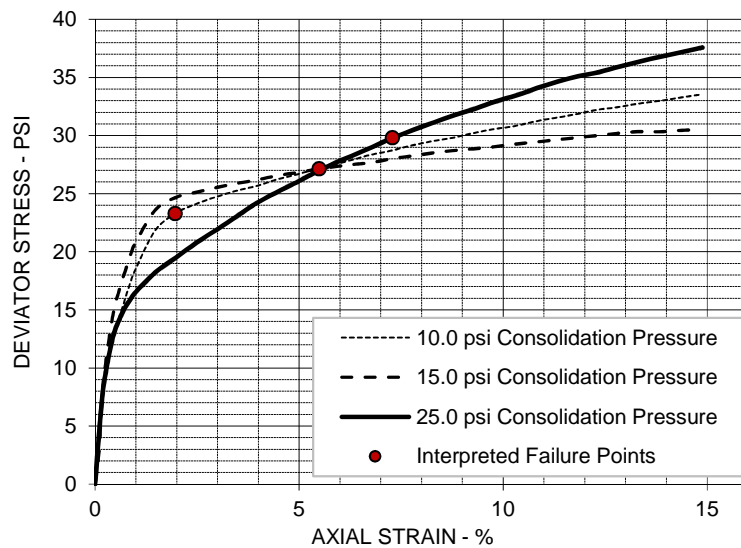
Failure Criteria: Max Obliquity (s1': s3')



EFFECTIVE STRESS PARAMETERS

$\phi' = 34.3$ deg

$c' = 1.2$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	14.7	14.7	14.7
Dry Density - pcf	105.7	105.8	107.6
Diameter - inches	2.90	2.89	2.87
Height - inches	5.97	5.95	6.00

AT TEST

Final Moisture - %	19.7	19.8	17.9
Dry Density - pcf	106.1	106.5	108.9
Calculated Diameter (in.)	2.88	2.87	2.83
Height - inches	5.92	5.91	5.92
Effect. Consol. Stress - psi	10.0	15.0	25.0
Failure Stress - psi	23.29	27.14	29.80
Total Pore Pressure - psi	52.8	55.8	65.5
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	2.0	5.5	7.3
σ_1' Failure - psi	30.48	36.39	39.31
σ_3' Failure - psi	7.19	9.25	9.51

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Undisturbed

DESCRIPTION: Clayey Sand (SC) / A-2-7 (4)

SAMPLE ID: G-129 20-22' ST-1

SPECIFIC GRAVITY: 2.65

LL: 59 PL: 23 PI: 36 Percent -200: 31.1%

Remarks:

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

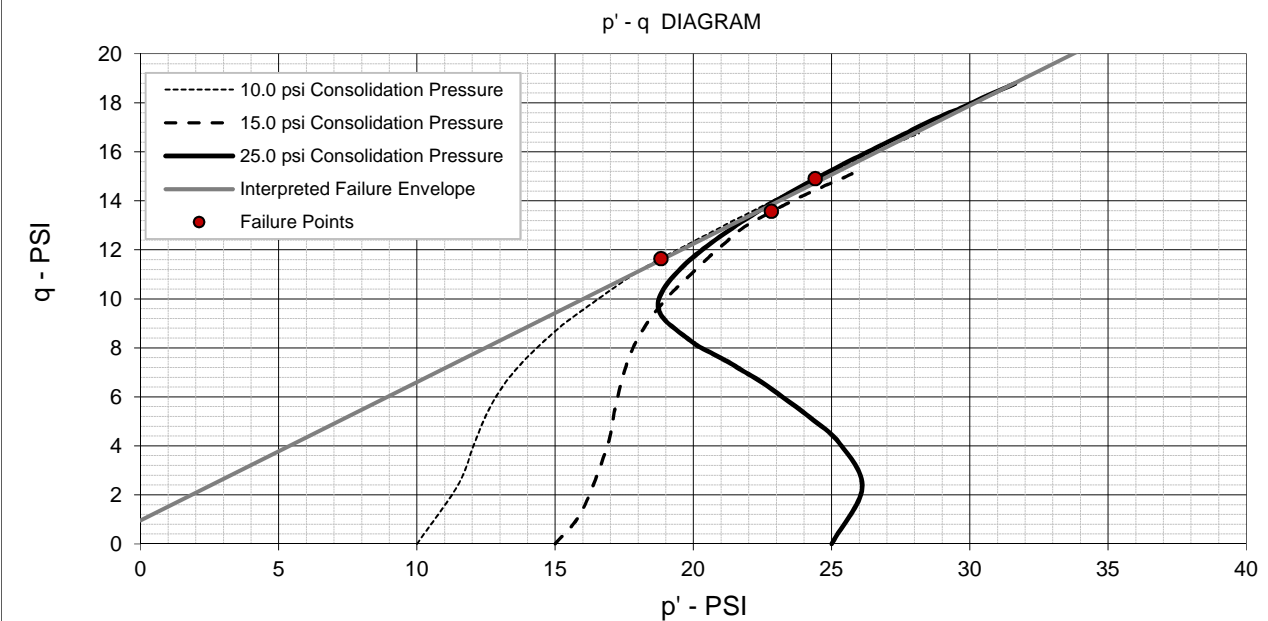
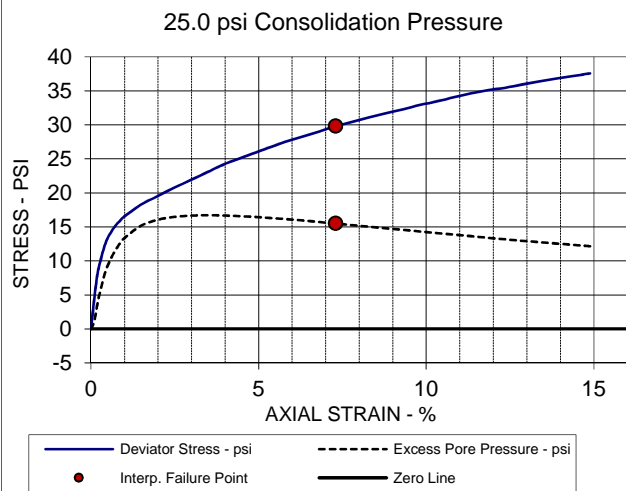
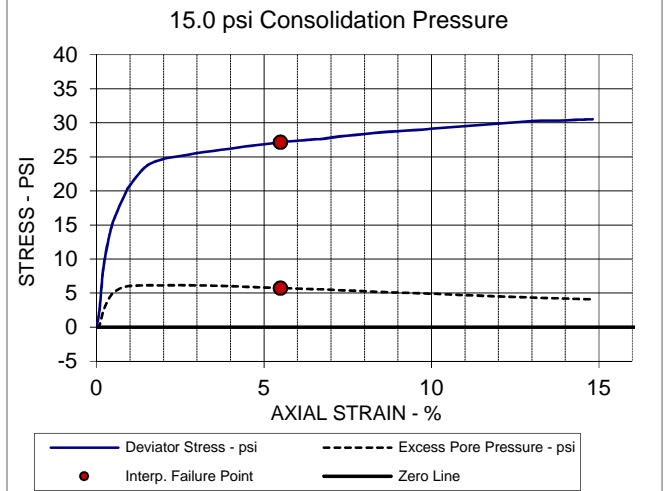
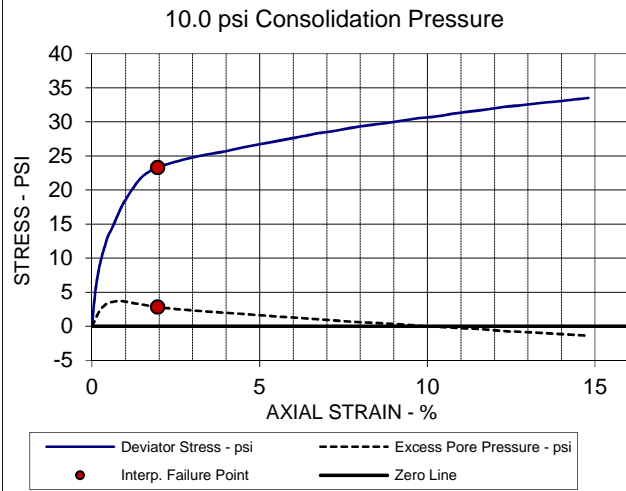
PROJECT #: 73225031


CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/25/22

521 Clemson Road
Columbia, SC



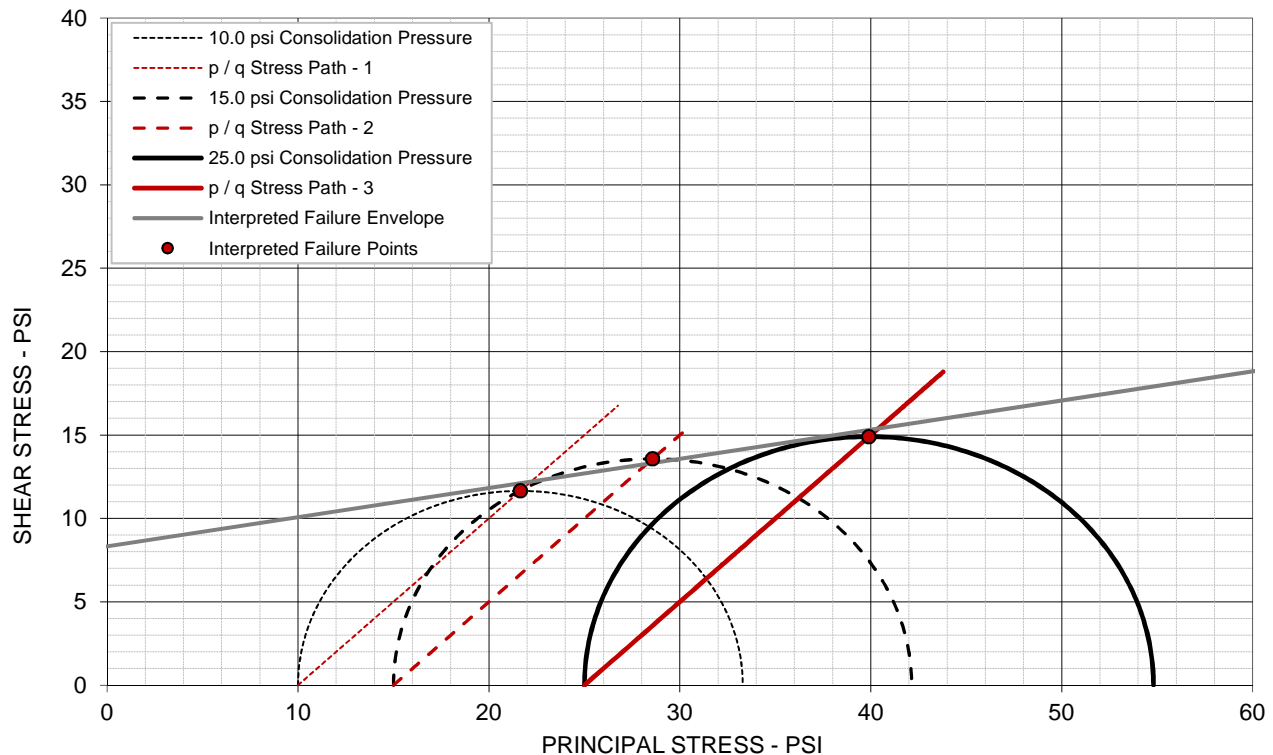


EFFECTIVE STRESS PARAMETERS	R ² = 0.99	α = 29.4 deg	a = 1.0 psi
PROJECT: Carolina Crossroads Phase 2		ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION TEST	
LOCATION: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC	
SAMPLE ID: G-129 20-22' ST-1		<div>521 Clemson Road Columbia, SC</div> <div></div>	
DESCRIPTION: Clayey Sand (SC) / A-2-7 (4)			

ICU TRIAXIAL COMPRESSION TEST

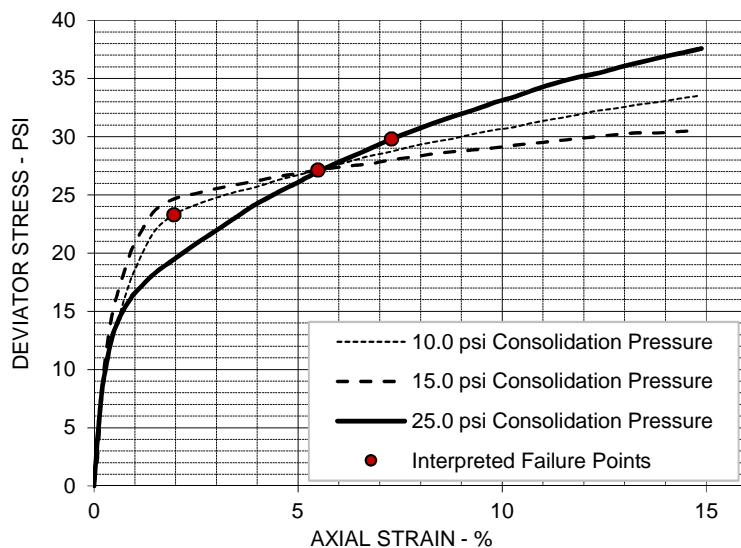
ASTM D4767 / AASHTO T297

Failure Criteria: Max Obliquity (s1': s3')



TOTAL STRESS PARAMETERS

$\phi = 9.9$ deg $c = 8.3$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	14.7	14.7	14.7
Dry Density - pcf	105.7	105.8	107.6
Diameter - inches	2.90	2.89	2.87
Height - inches	5.97	5.95	6.00

AT TEST

Final Moisture - %	19.7	19.8	17.9
Dry Density - pcf	106.1	106.5	108.9
Calculated Diameter (in.)	2.88	2.87	2.83
Height - inches	5.92	5.91	5.92
Effect. Consol. Stress - psi	10.0	15.0	25.0
Failure Stress - psi	23.29	27.14	29.80
Total Pore Pressure - psi	52.8	55.8	65.5
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	2.0	5.5	7.3
σ_1 Failure - psi	33.29	42.14	54.80
σ_3 Failure - psi	10.00	15.00	25.00

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Undisturbed

DESCRIPTION: Clayey Sand (SC) / A-2-7 (4)

SAMPLE ID: G-129 20-22' ST-1

SPECIFIC GRAVITY: 2.65

LL: 59 PL: 23 PI: 36 Percent -200: 31.1%

Remarks:

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

PROJECT #: 73225031

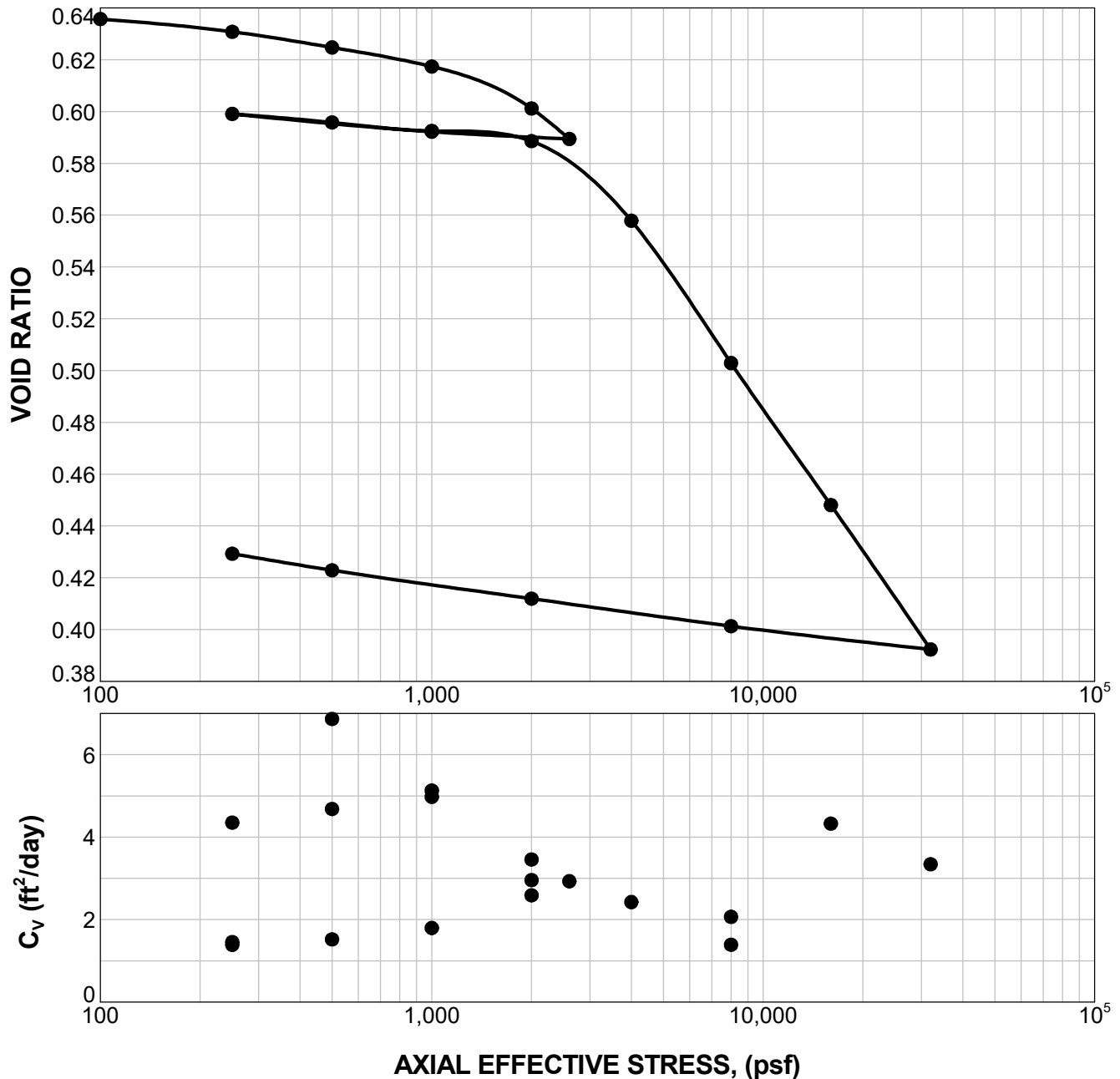
CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/25/22

521 Clemson Road
Columbia, SC



CONSOLIDATION TEST (D2435)



Natural		Initial Dry Density (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P _c (psf)	C _c (vr / log stress)	C _c (vr / log stress)	Initial Void Ratio
Saturation	Moisture									
59.4 %	14.7 %	97.9	59	36	2.57	2580	2,214	0.185	0.010	0.636
MATERIAL DESCRIPTION									USCS	AASHTO
CLAYEY SAND									SC	A-2-7

NOTES: Percent Fines: 31.1%

Borehole: G-129A Depth: 22 ft Specimen #: ST-2 Date Started: 03/07/2022 Date Completed: 03/28/2022

PROJECT: Carolina Crossroads Phase 2

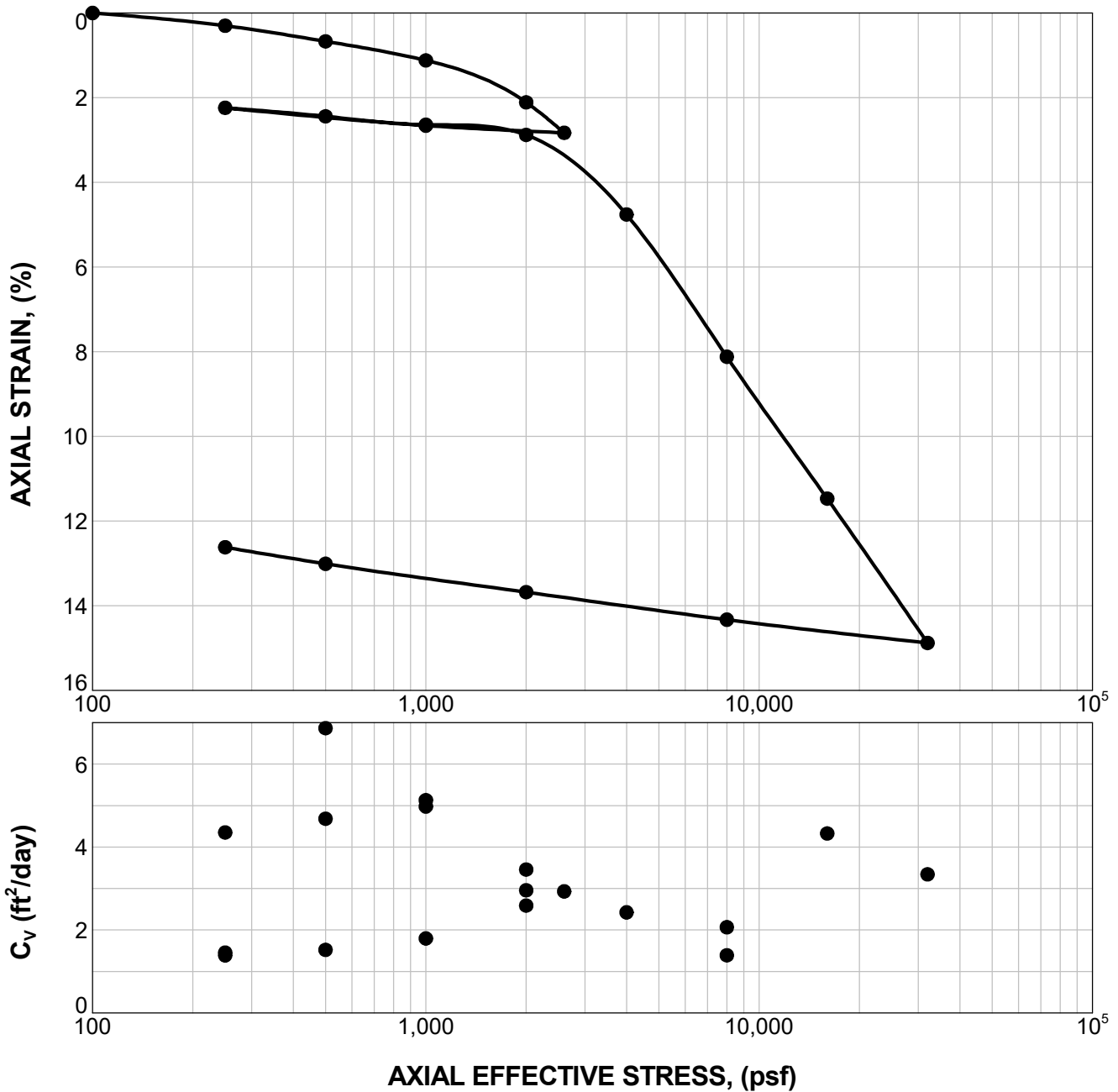
SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting &
Engineering, PLLC
Charleston, SC

CONSOLIDATION TEST (D2435)



Natural		Initial Dry Density (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c (% / log stress)	C_u (% / log stress)	Initial Void Ratio
Saturation	Moisture									
59.4 %	14.7 %	97.9	59	36	2.57	2580	2,214	11.328	0.589	0.636

MATERIAL DESCRIPTION									USCS	AASHTO
CLAYEY SAND									SC	A-2-7

NOTES: Percent Fines: 31.1%

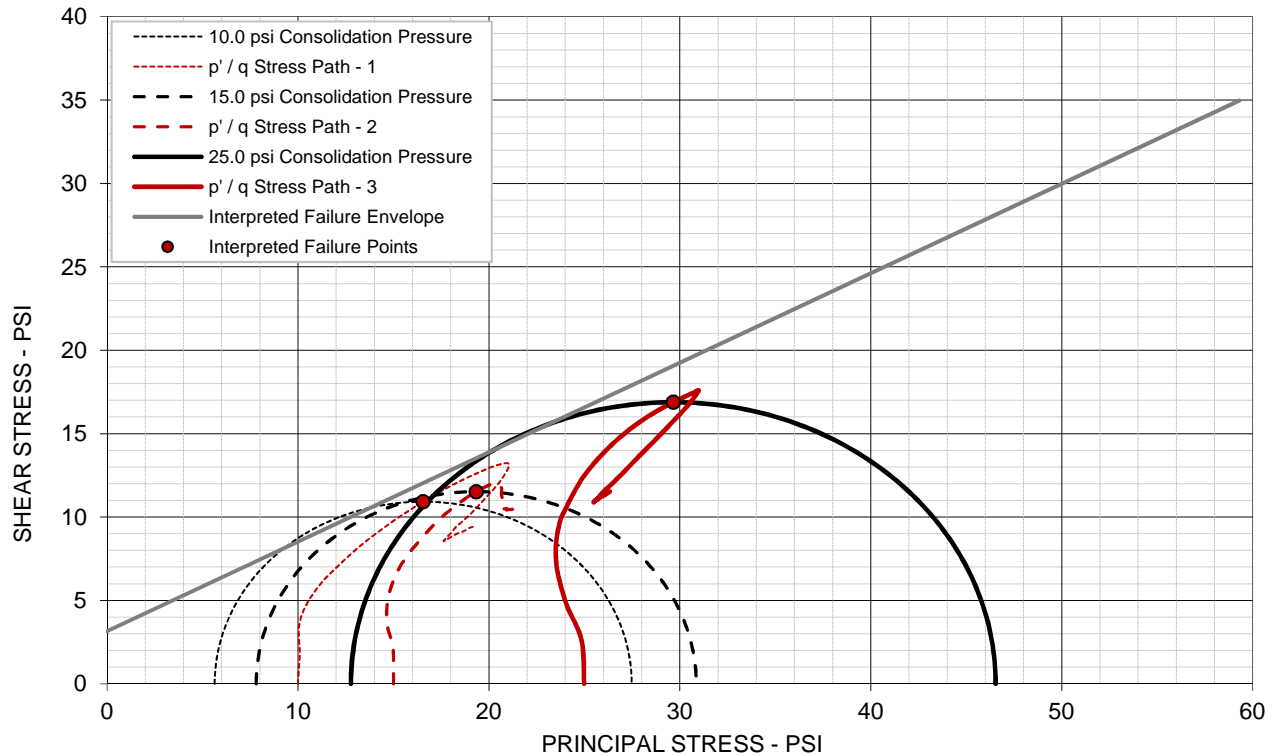
Borehole: G-129A Depth: 22 ft Specimen #: ST-2 Date Started: 03/07/2022 Date Completed: 03/28/2022

PROJECT: Carolina Crossroads Phase 2	 521 Clemson Rd Columbia, SC	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

ICU TRIAXIAL COMPRESSION TEST

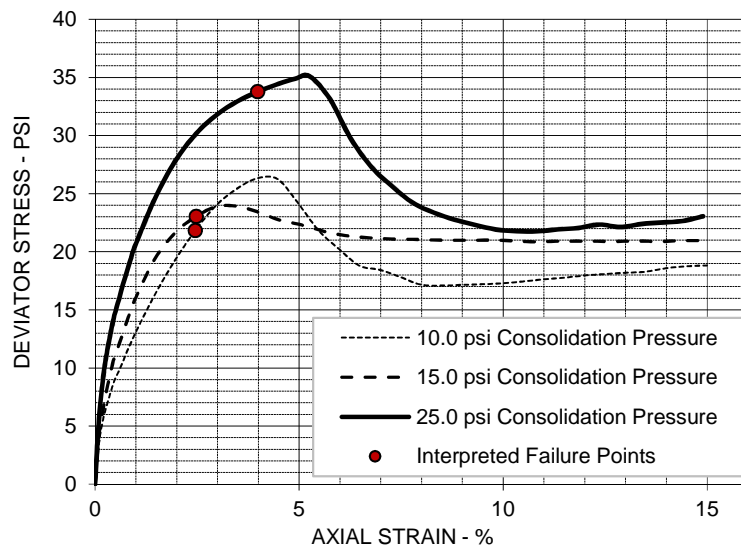
ASTM D4767 / AASHTO T297

Failure Criteria: Max Obliquity (s1': s3')



EFFECTIVE STRESS PARAMETERS

$\phi' = 28.2$ deg $c' = 3.2$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	36.4	36.4	36.4
Dry Density - pcf	81.1	84.4	85.1
Diameter - inches	2.90	2.85	2.86
Height - inches	5.96	5.95	5.95

AT TEST

Final Moisture - %	41.4	40.4	36.7
Dry Density - pcf	82.0	86.4	87.9
Calculated Diameter (in.)	2.89	2.82	2.83
Height - inches	5.94	5.89	5.87
Effect. Consol. Stress - psi	10.0	15.0	25.0
Failure Stress - psi	21.84	23.04	33.76
Total Pore Pressure - psi	54.4	57.2	62.2
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	2.5	2.5	4.0
σ_1' Failure - psi	27.48	30.86	46.54
σ_3' Failure - psi	5.64	7.81	12.77

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Undisturbed

DESCRIPTION: Elastic Silt with Sand (MH) / A-7-5 (17)

SAMPLE ID: G-138 22-24' ST-1

SPECIFIC GRAVITY: 2.65

LL: 55 PL: 38 PI: 17 Percent -200: 81.4%

Remarks:

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

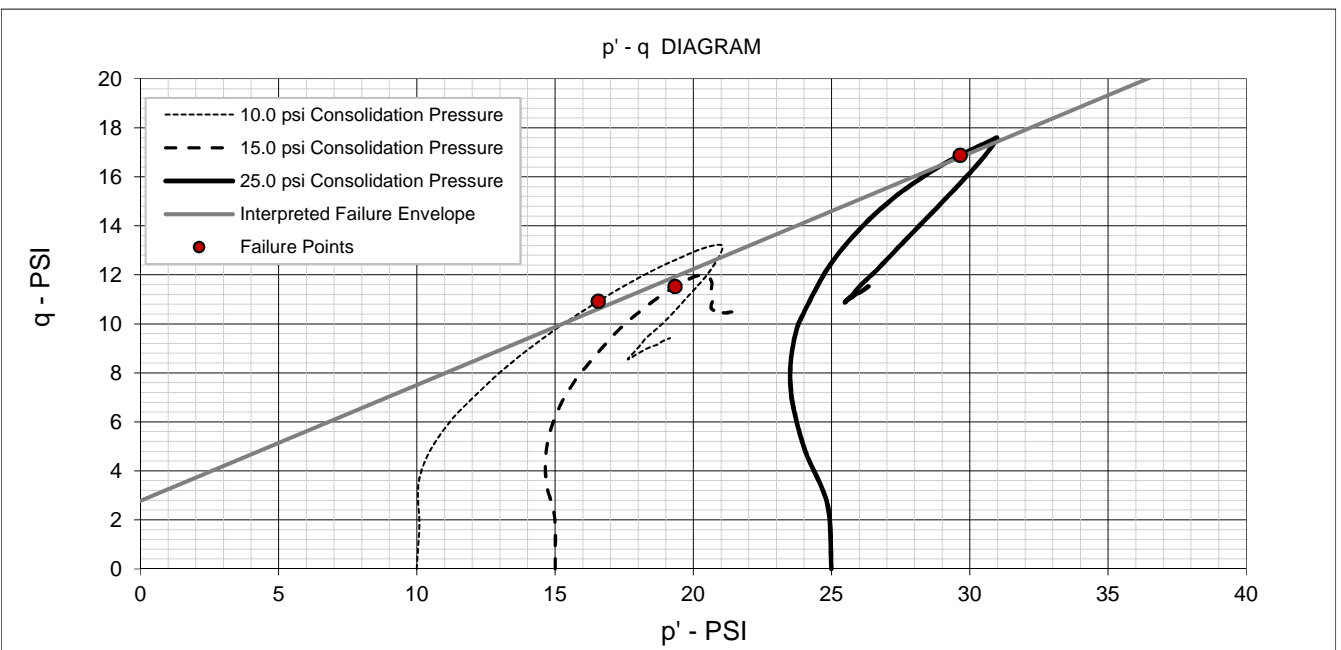
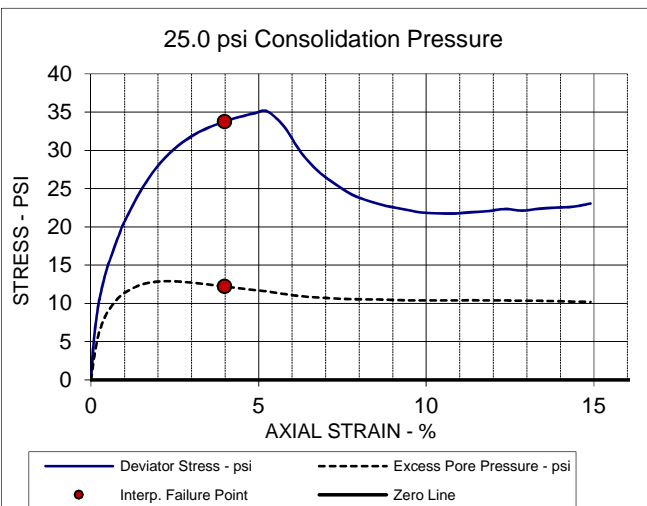
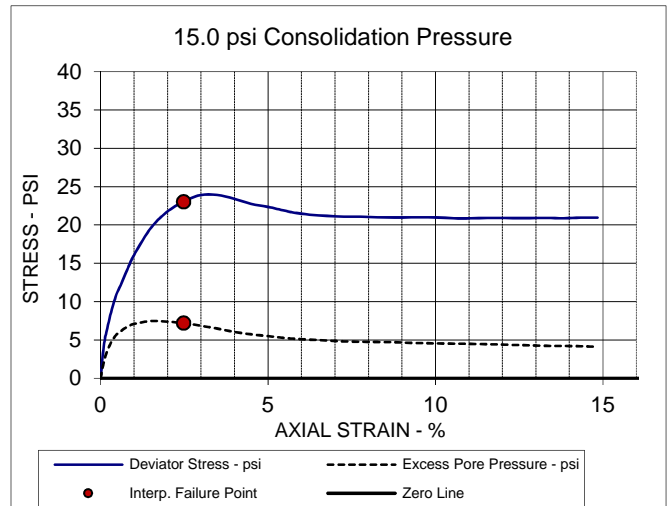
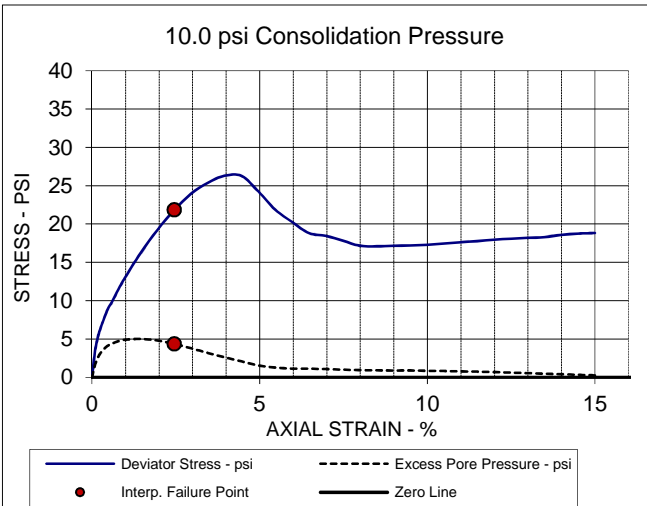
PROJECT #: 73225031


CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/25/22

521 Clemson Road
Columbia, SC

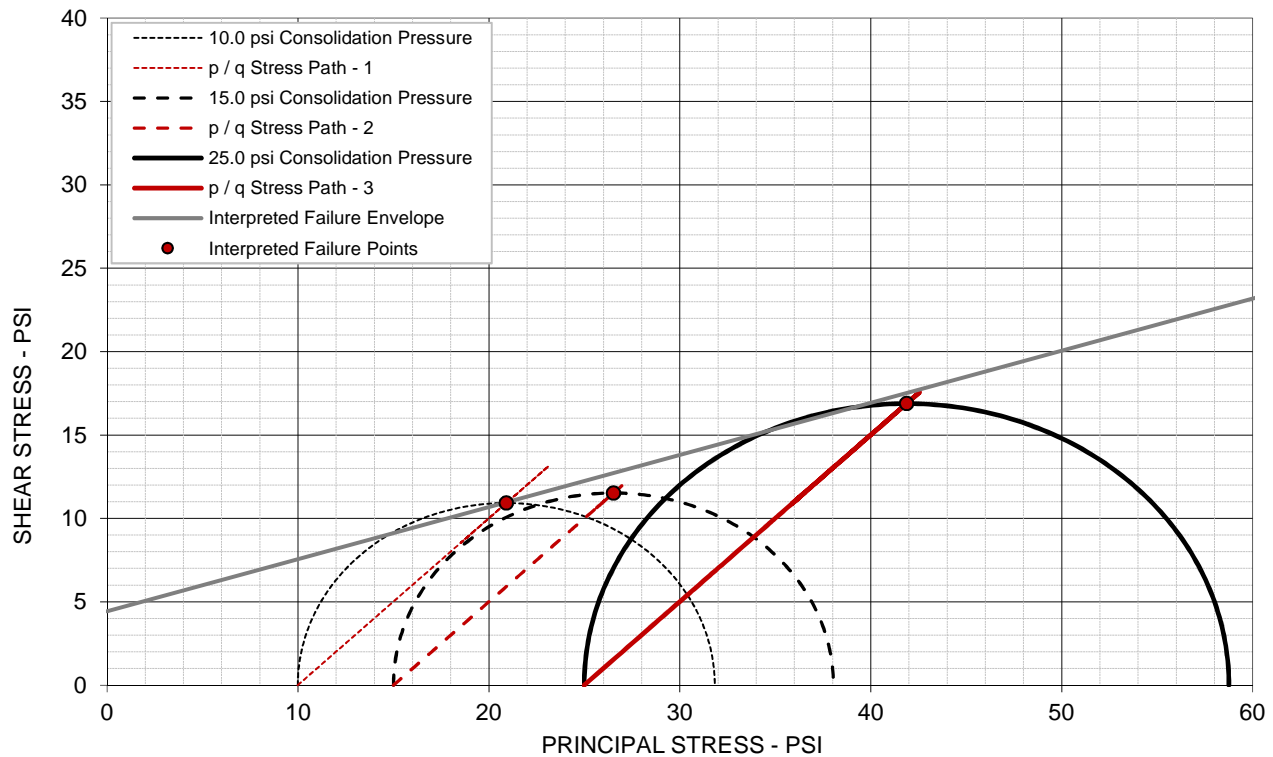




EFFECTIVE STRESS PARAMETERS		R ² = 0.99	α = 25.3 deg	a = 2.8 psi
PROJECT: Carolina Crossroads Phase 2			ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION TEST	
LOCATION: Richland and Lexington Counties, SC			CLIENT: Infrastructure Consulting & Engineering, PLLC	
SAMPLE ID: G-138 22-24' ST-1			<div>521 Clemson Road Columbia, SC</div> <div></div>	
DESCRIPTION: Elastic Silt with Sand (MH) / A-7-5 (17)				

ICU TRIAXIAL COMPRESSION TEST ASTM D4767 / AASHTO T297

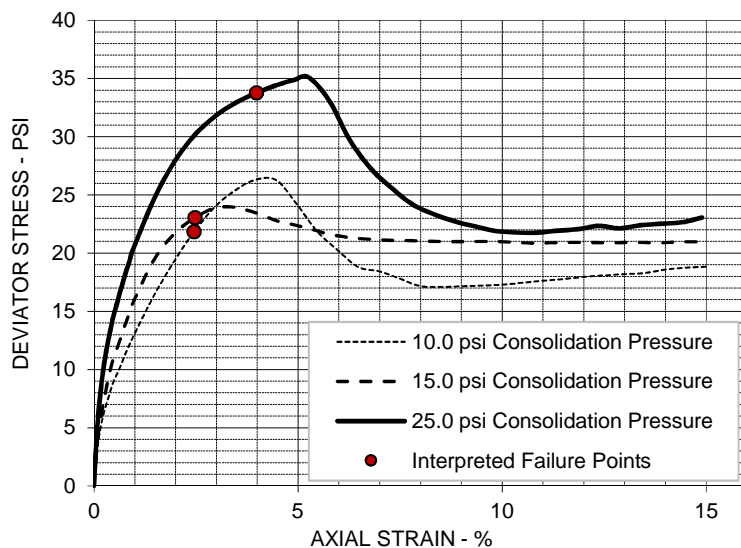
Failure Criteria: Max Obliquity (s1': s3')



TOTAL STRESS PARAMETERS

$\phi = 17.3 \text{ deg}$

$c = 4.4 \text{ psi}$



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	36.4	36.4	36.4
Dry Density - pcf	81.1	84.4	85.1
Diameter - inches	2.90	2.85	2.86
Height - inches	5.96	5.95	5.95

AT TEST

Final Moisture - %	41.4	40.4	36.7
Dry Density - pcf	82.0	86.4	87.9
Calculated Diameter (in.)	2.89	2.82	2.83
Height - inches	5.94	5.89	5.87
Effect. Consol. Stress - psi	10.0	15.0	25.0
Failure Stress - psi	21.84	23.04	33.76
Total Pore Pressure - psi	54.4	57.2	62.2
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	2.5	2.5	4.0
σ_1 Failure - psi	31.83	38.04	58.75
σ_3 Failure - psi	9.99	15.00	24.99

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION
 SAMPLE TYPE: Undisturbed
 DESCRIPTION: Elastic Silt with Sand (MH) / A-7-5 (17)
 SAMPLE ID: G-138 22-24' ST-1
 SPECIFIC GRAVITY: 2.65
 LL: 55 PL: 38 PI: 17 Percent -200: 81.4%
 Remarks:

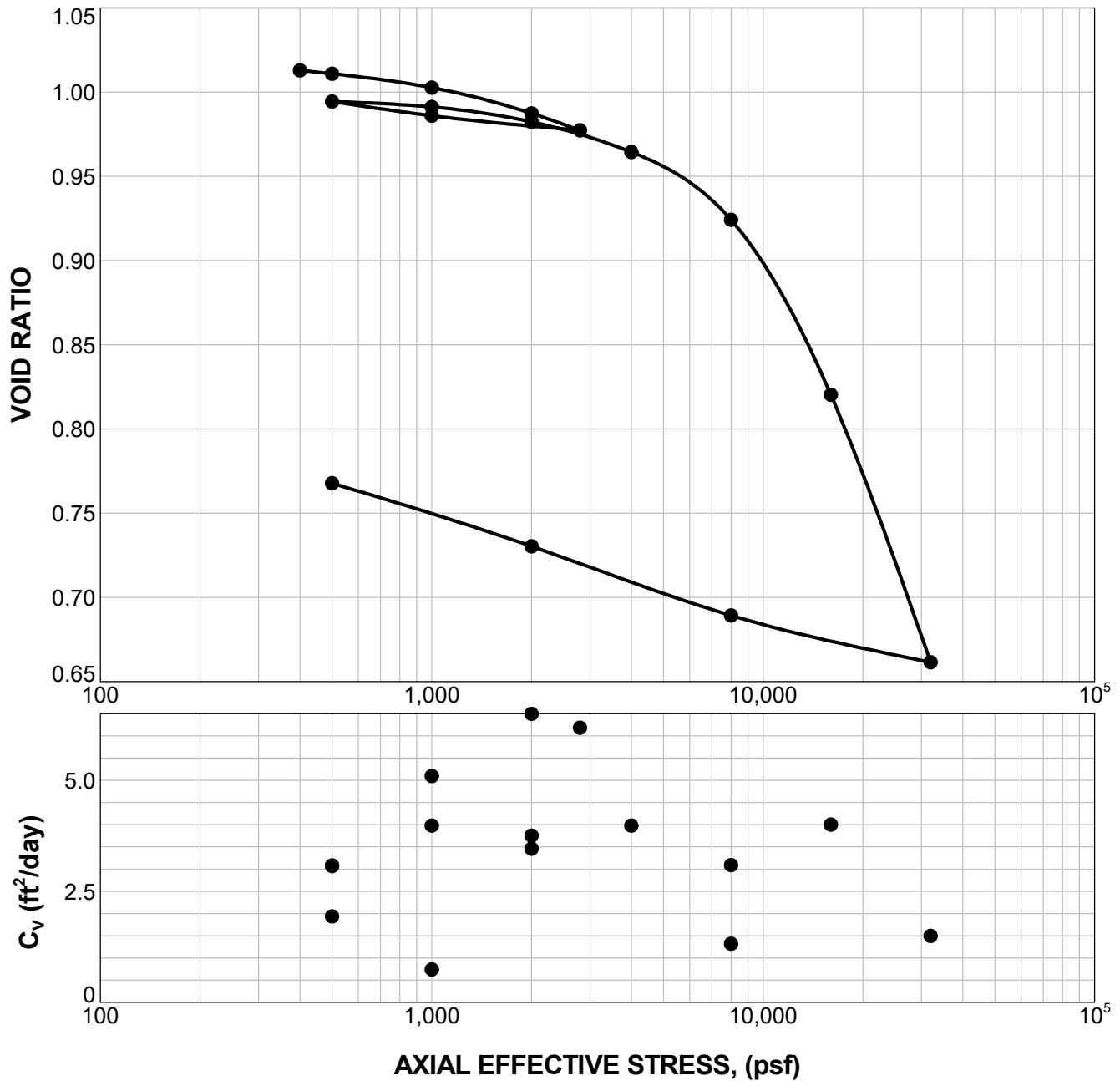
PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2
 LOCATION: Richland and Lexington Counties, SC
 PROJECT #: 73225031
 CLIENT: Infrastructure Consulting & Engineering, PLLC
 DATE: 03/25/22

521 Clemson Road
 Columbia, SC



CONSOLIDATION TEST (D2435)



Natural		Initial Dry Density (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c (vr / log stress)	C_c (vr / log stress)	Initial Void Ratio
Saturation	Moisture									
94.7 %	36.4 %	81.6	55	17	2.63	2780	9,339	0.528	0.023	1.013

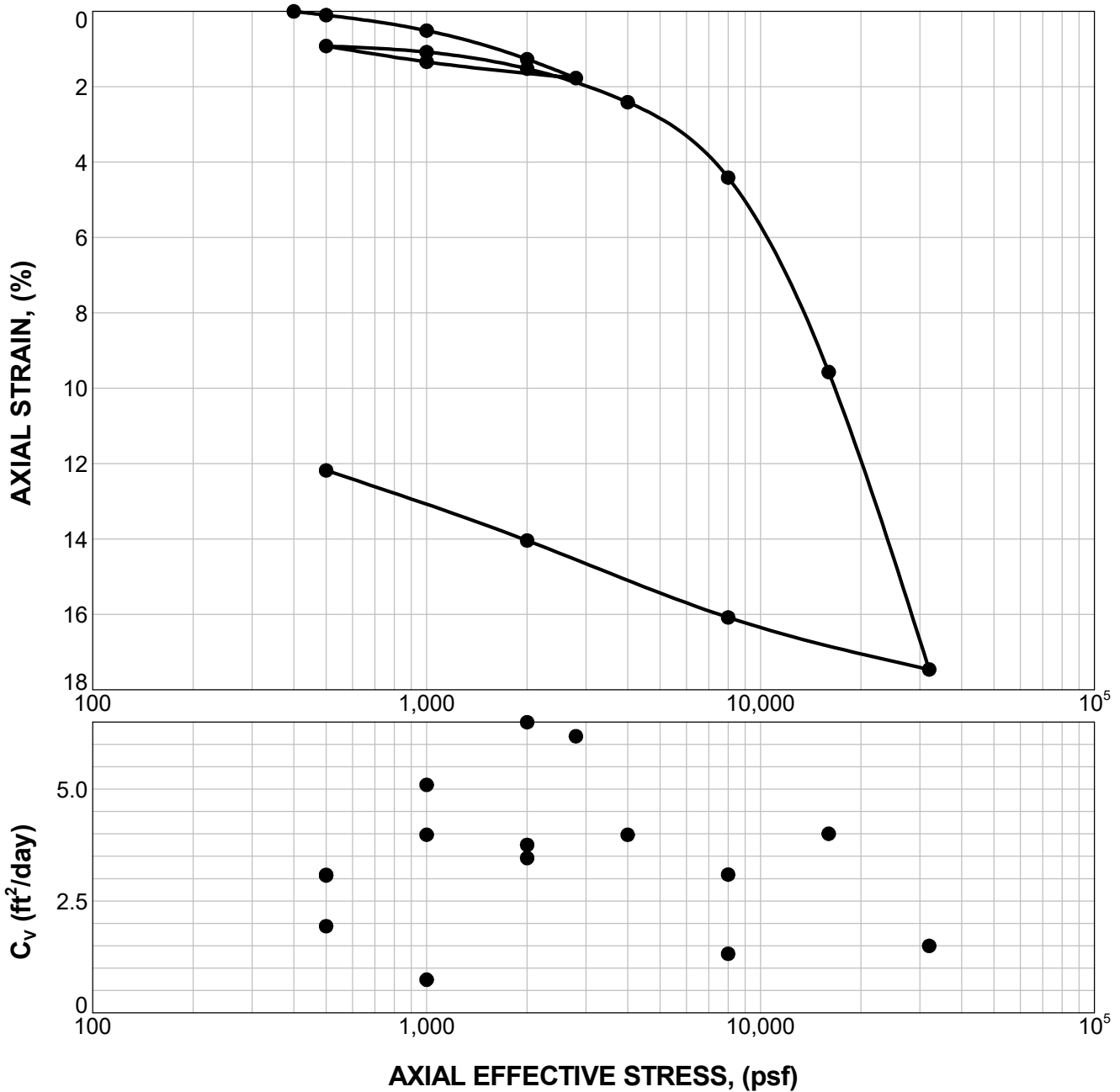
MATERIAL DESCRIPTION									USCS	AASHTO
ELASTIC SILT with SAND									MH	A-7-5

NOTES: Percent Fines: 81.4%

Borehole: G-138A Depth: 24 ft Specimen #: ST-2 Date Started: 03/10/2022 Date Completed: 03/28/2022

PROJECT: Carolina Crossroads Phase 2	 521 Clemson Rd Columbia, SC	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

CONSOLIDATION TEST (D2435)



Natural		Initial Dry Density (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c (% / log stress)	C_u (% / log stress)	Initial Void Ratio
Saturation	Moisture									
94.7 %	36.4 %	81.6	55	17	2.63	2780	9,339	26.210	1.123	1.013

MATERIAL DESCRIPTION									USCS	AASHTO
ELASTIC SILT with SAND									MH	A-7-5

NOTES: Percent Fines: 81.4%

Borehole: G-138A Depth: 24 ft Specimen #: ST-2 Date Started: 03/10/2022 Date Completed: 03/28/2022

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting &
Engineering, PLLC
Charleston, SC

750 Pilot Road, Suite F
Las Vegas, Nevada 89119
(702) 597-9393



Client

Infrastructure Consulting & Engineering, PLLC

Project

Carolina Crossroads Phase 1

Sample Submitted By: Terracon (73)

Date Received: 3/4/2022

Lab No.: 22-0219

Results of Corrosion Analysis

Sample Number	--	--
Sample Location	G-138	G-129
Sample Depth (ft.)	0.0-7.0	0.0-5.0
pH Analysis, ASTM G 51	6.38	6.48
Water Soluble Sulfate (SO ₄), ASTM C 1580 (mg/kg)	36	45
Chlorides, ASTM D 512, (mg/kg)	47	30
Saturated Minimum Resistivity, ASTM G 187, (ohm-cm)	24735	34920

Analyzed By:

A handwritten signature in black ink, appearing to read "N. Campo".

Nathan Campo
Engineering Technician II

The tests were performed in general accordance with applicable ASTM and AWWA test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX B – BRIDGE 42B

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX B – BRIDGE 42B

SECTION 1 BORING LOCATION PLANS

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX B – BRIDGE 42B

SECTION 2 FIELD TESTING LOGS

Carolina Crossroads - Phase 2

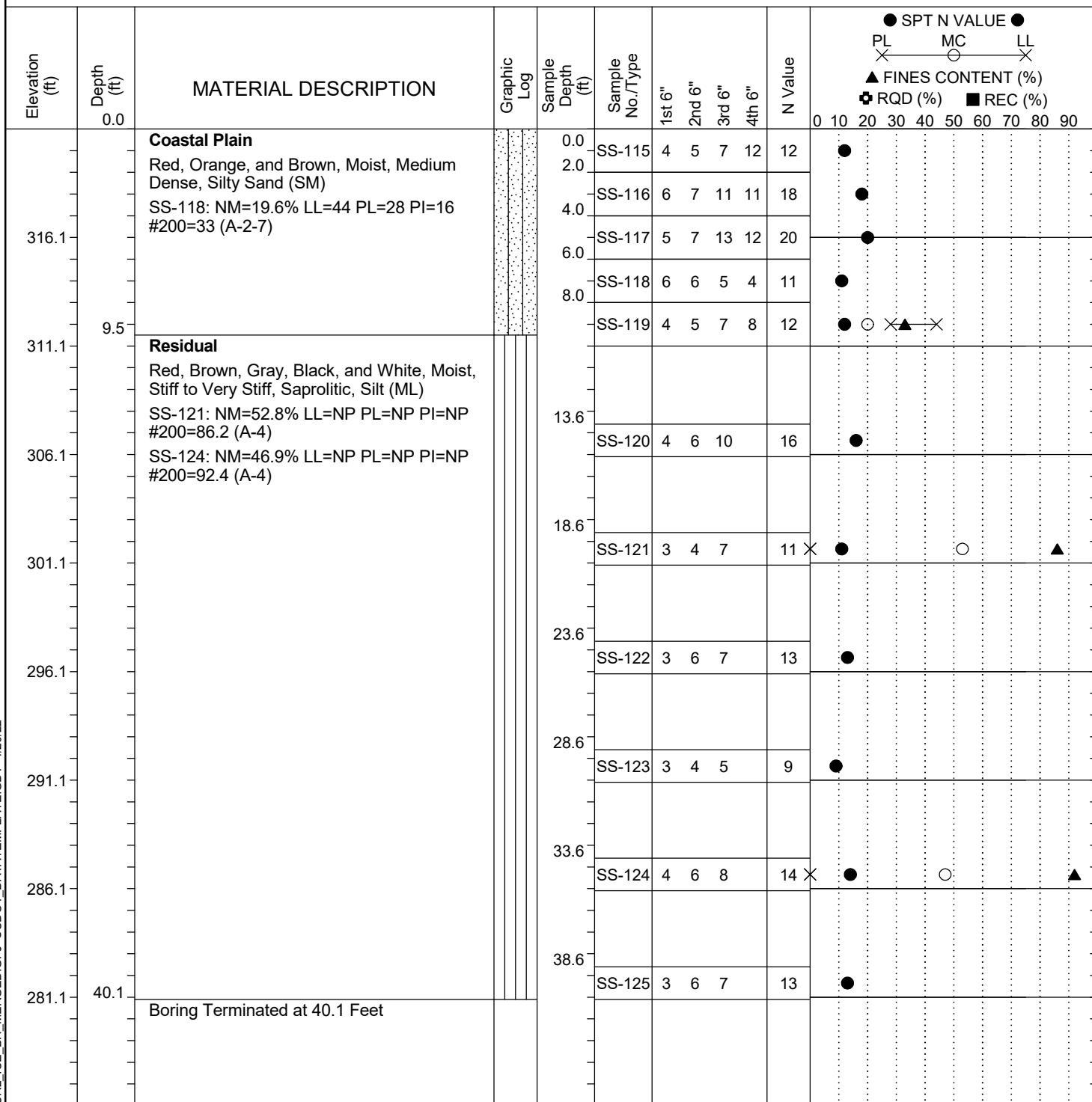
Geotechnical Subsurface Data Report

APPENDIX B – BRIDGE 42B

SECTION 2 FIELD TESTING LOGS

SECTION 2A SOIL BORING LOGS

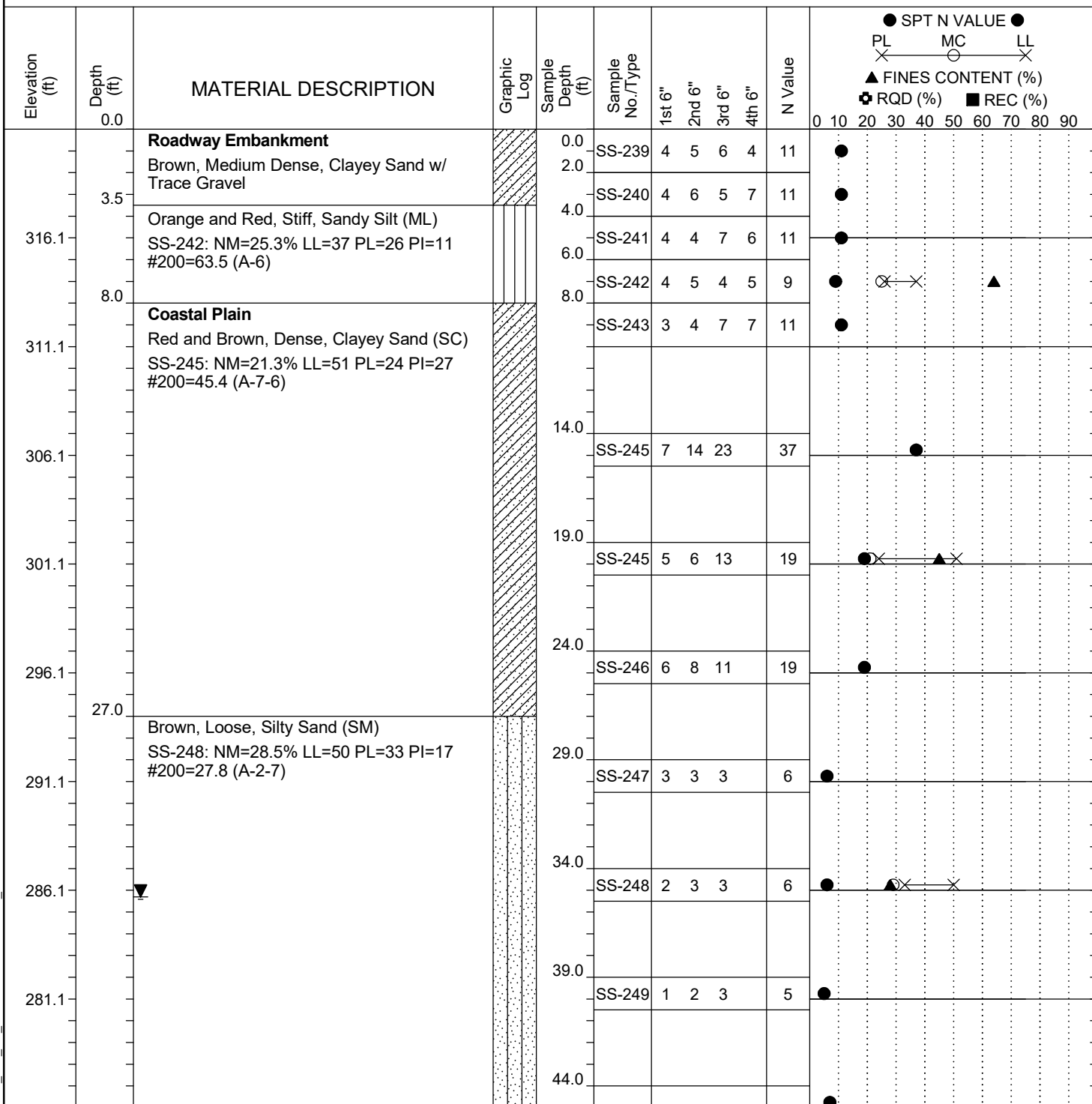
Project ID:	P039719	County:	Richland	Boring No.:	G-033
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	206+00	Offset:	145 RT
Elev.:	321.1 ft	Latitude:	34.03941445	Longitude:	-81.09260839
Total Depth:	40.1 ft	Soil Depth:	40.1 ft	Date Started:	2/16/2022
Core Depth:	N/A ft	Date Completed:	2/16/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	Dry



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-121
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	202+85	Offset:	186 LT
Elev.:	321.1 ft	Latitude:	34.03985446	Longitude:	-81.09401208
Total Depth:	69.8 ft	Soil Depth:	69.8 ft	Date Started:	3/2/2022
Core Depth:	N/A ft	Date Completed:	3/2/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	35.3 ft

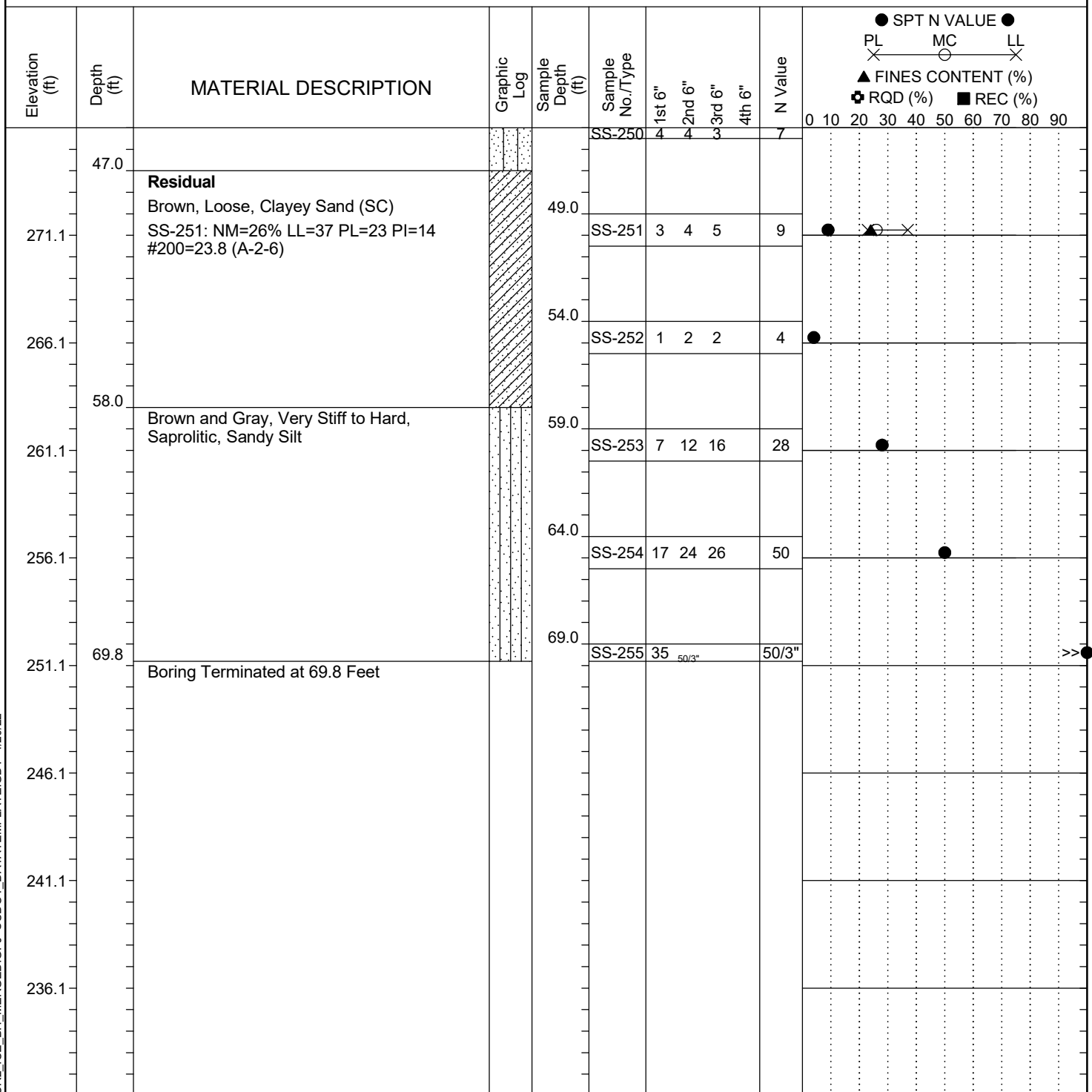


LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

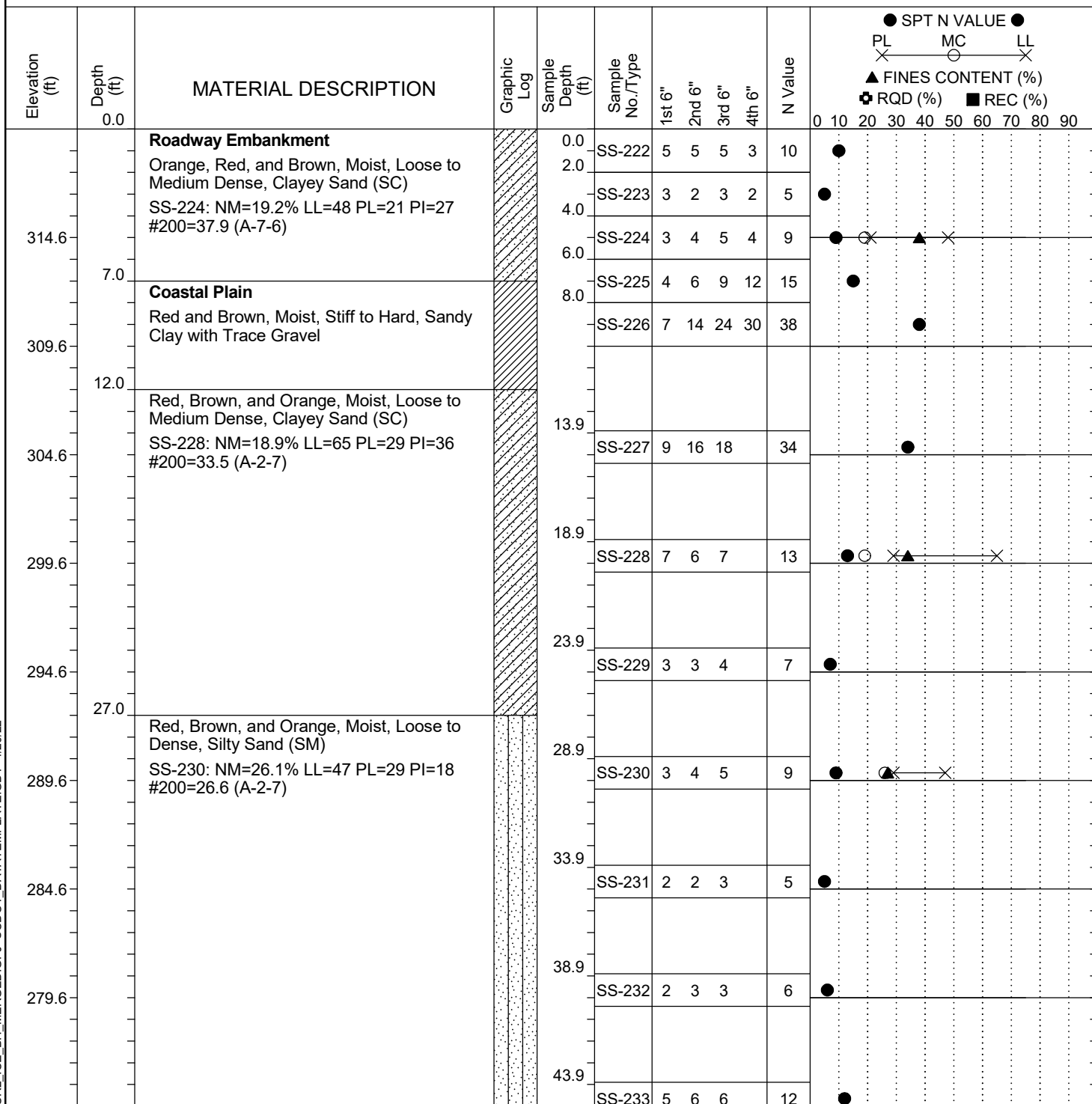
Project ID:	P039719	County:	Richland	Boring No.:	G-121
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	202+85	Offset:	186 LT
Elev.:	321.1 ft	Latitude:	34.03985446	Longitude:	-81.09401208
Total Depth:	69.8 ft	Soil Depth:	69.8 ft	Date Started:	3/2/2022
Core Depth:	N/A ft	Date Completed:	3/2/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	35.3 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-122
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	203+32	Offset:	110 LT
Elev.:	319.6 ft	Latitude:	34.03971669	Longitude:	-81.09377055
Total Depth:	89.6 ft	Soil Depth:	89.6 ft	Date Started:	3/1/2022
Core Depth:	N/A ft	Date Completed:	3/1/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	Dry

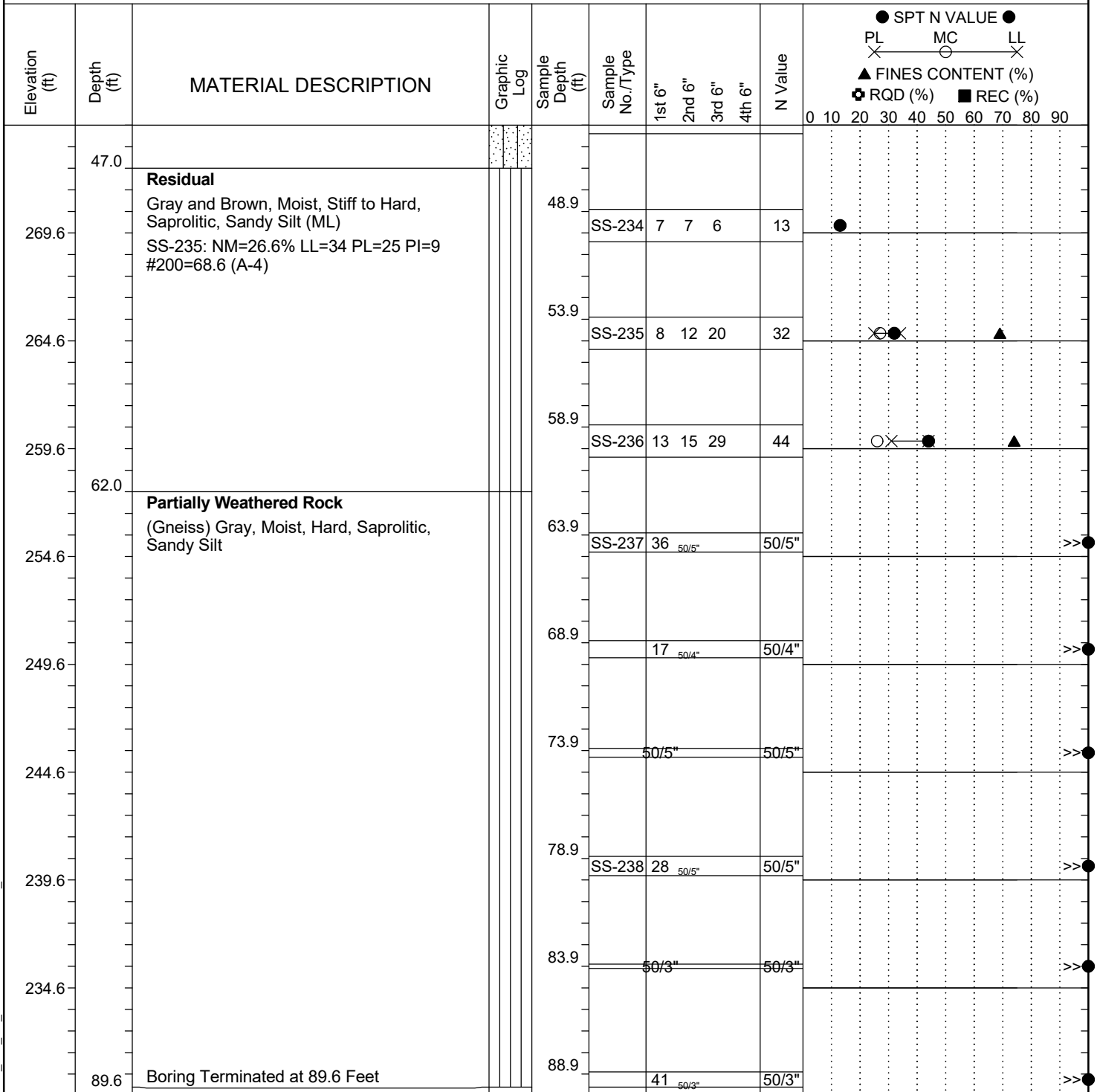


LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

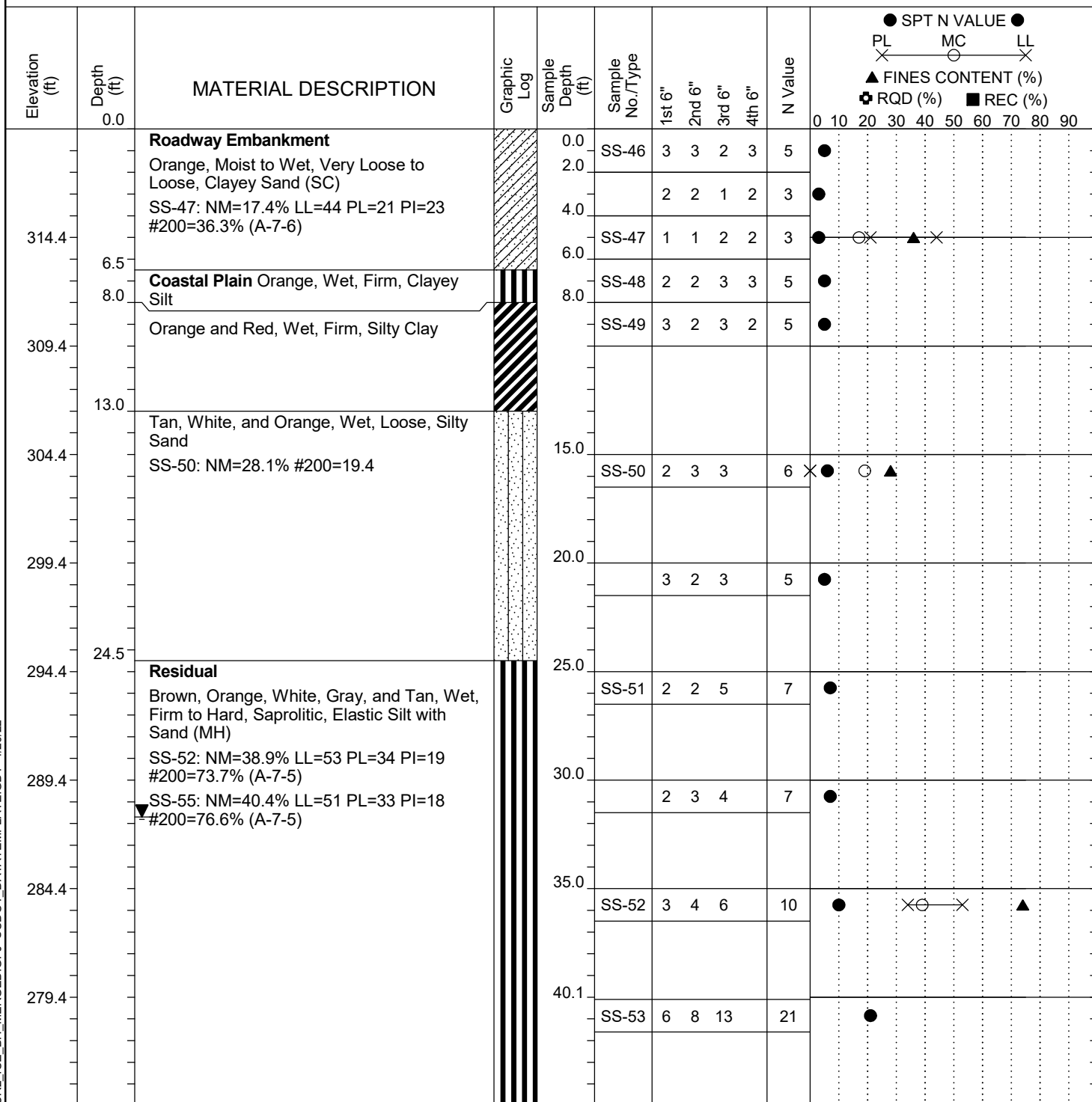
Project ID:	P039719	County:	Richland	Boring No.:	G-122
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	203+32	Offset:	110 LT
Elev.:	319.6 ft	Latitude:	34.03971669	Longitude:	-81.09377055
Total Depth:	89.6 ft	Soil Depth:	89.6 ft	Date Started:	3/1/2022
Core Depth:	N/A ft	Date Completed:	3/1/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	Dry



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-126
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	204+20	Offset:	96 RT
Elev.:	319.4 ft	Latitude:	34.03931253	Longitude:	-81.09321267
Total Depth:	95.1 ft	Soil Depth:	95.1 ft	Date Started:	3/2/2022
Core Depth:	N/A ft	Date Completed:	3/3/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	Casing w/ Adv	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	24HR	31.7 ft



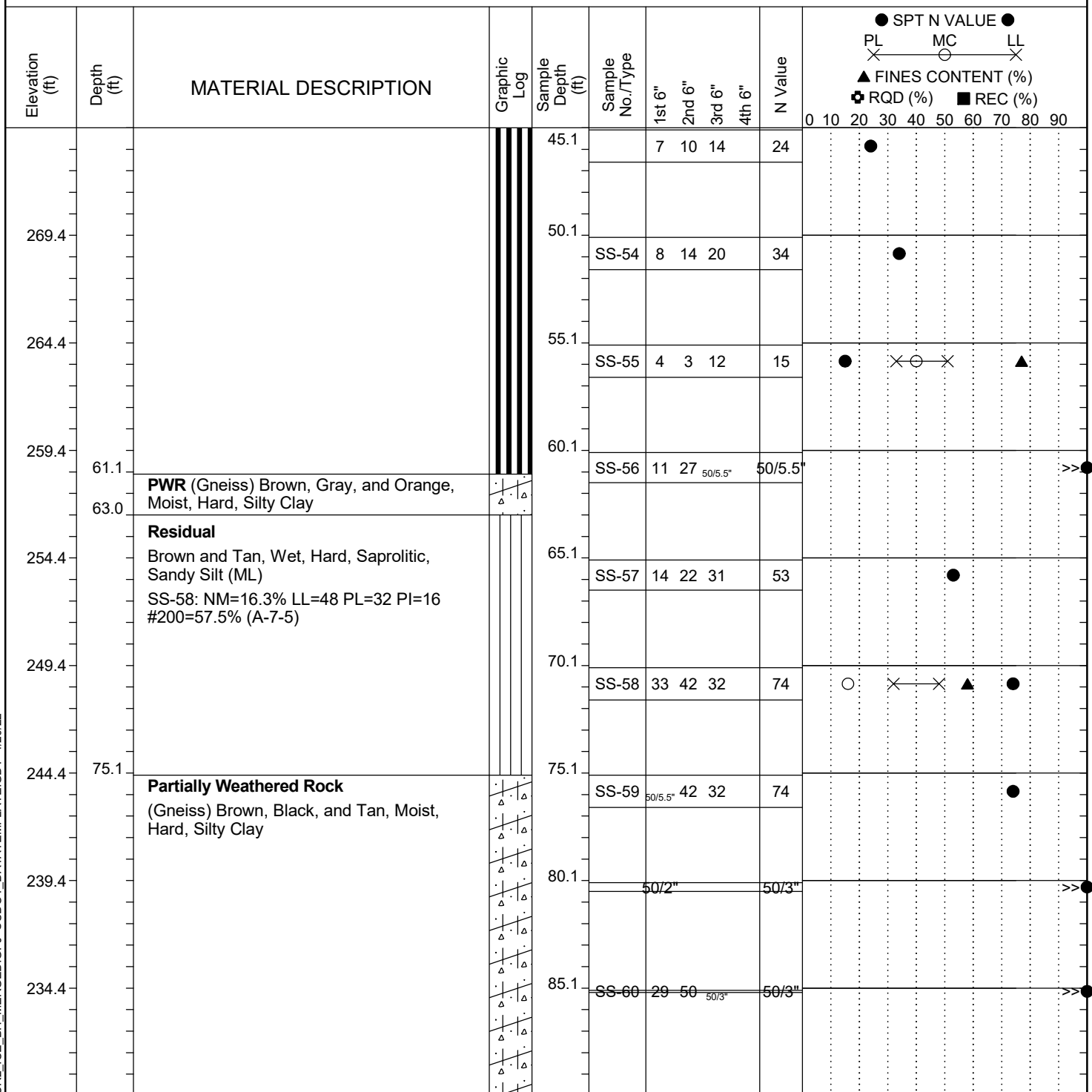
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SC.DOT 20-81_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 4/20/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-126
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	204+20	Offset:	96 RT
Elev.:	319.4 ft	Latitude:	34.03931253	Longitude:	-81.09321267
Total Depth:	95.1 ft	Soil Depth:	95.1 ft	Date Started:	3/2/2022
Core Depth:	N/A ft	Date Completed:	3/3/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	Casing w/ Adv	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	24HR	31.7 ft

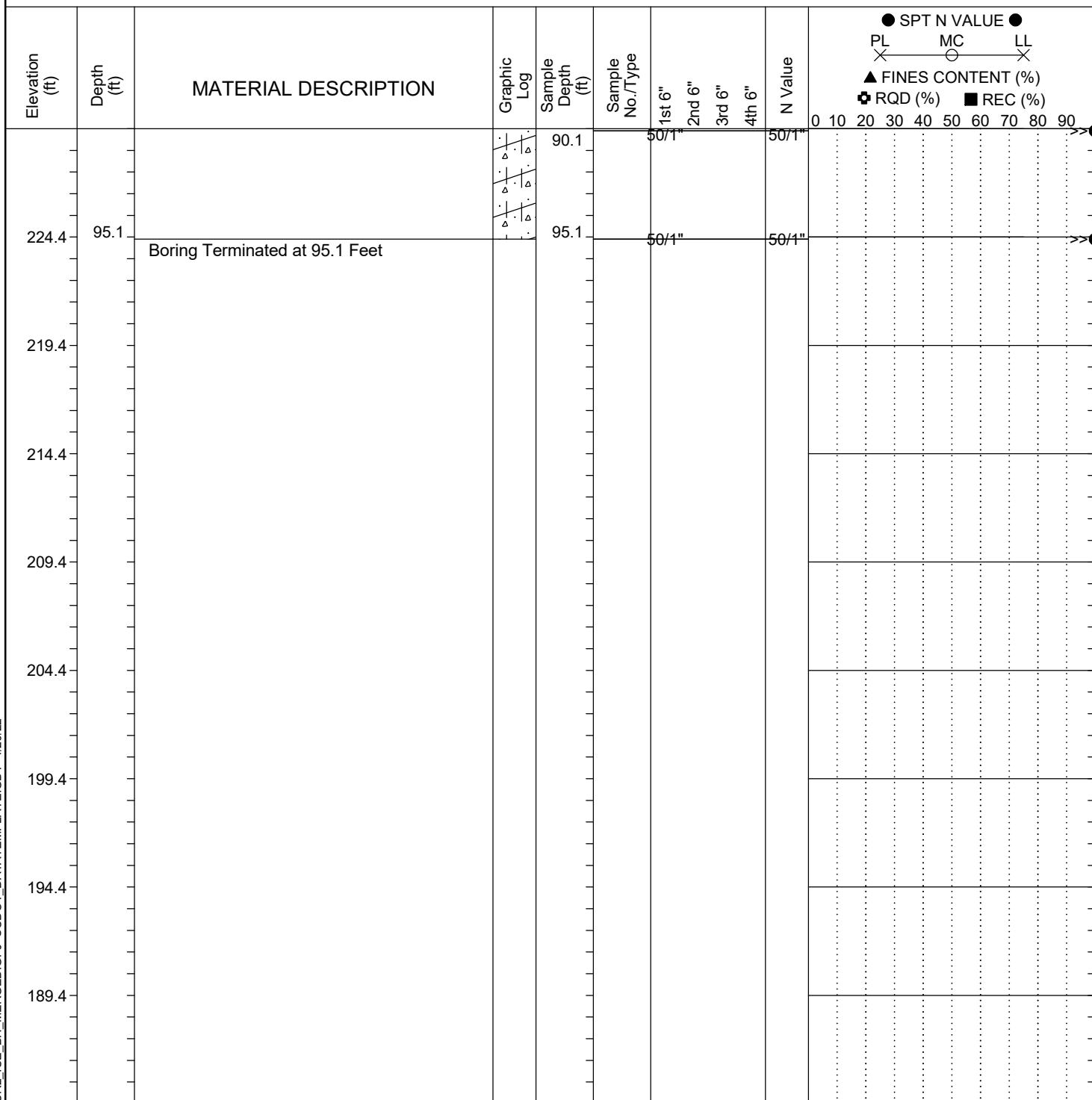


LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

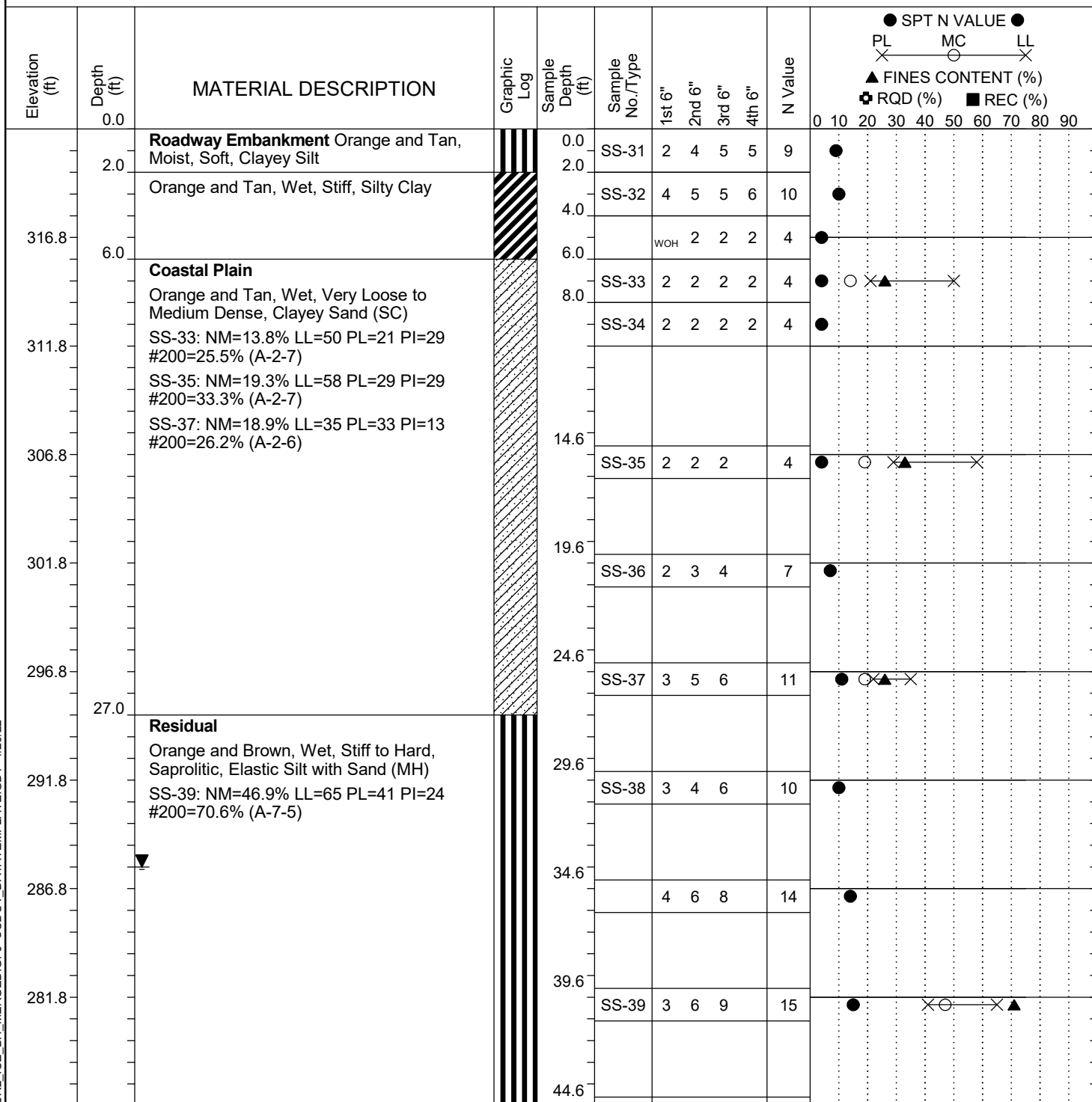
Project ID: P039719				County: Richland		Boring No.: G-126		
Site Description:		Carolina Crossroads Phase 2 - Bridge 42B					Route: Broad River Rd.	
Eng./Geo.: C. McIlroy		Boring Location: 204+20		Offset: 96 RT		Alignment: I20CL		
Elev.: 319.4 ft		Latitude: 34.03931253		Longitude: -81.09321267		Date Started: 3/2/2022		
Total Depth: 95.1 ft		Soil Depth: 95.1 ft		Core Depth: N/A ft		Date Completed: 3/3/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #435		Drill Method: Casing w/ Adv		Hammer Type: Automatic		Energy Ratio: 84.4%		
Core Size: N/A		Driller: M. Morgan		Groundwater: TOB N/A		24HR 31.7 ft		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-127
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	204+24	Offset:	116 RT
Elev.:	321.8 ft	Latitude:	34.03926754	Longitude:	-81.09317171
Total Depth:	81.1 ft	Soil Depth:	81.1 ft	Date Started:	3/1/2022
Core Depth:	N/A ft	Date Completed:	3/2/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	Casing w/ Adv	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	N/A	24HR
					34 ft



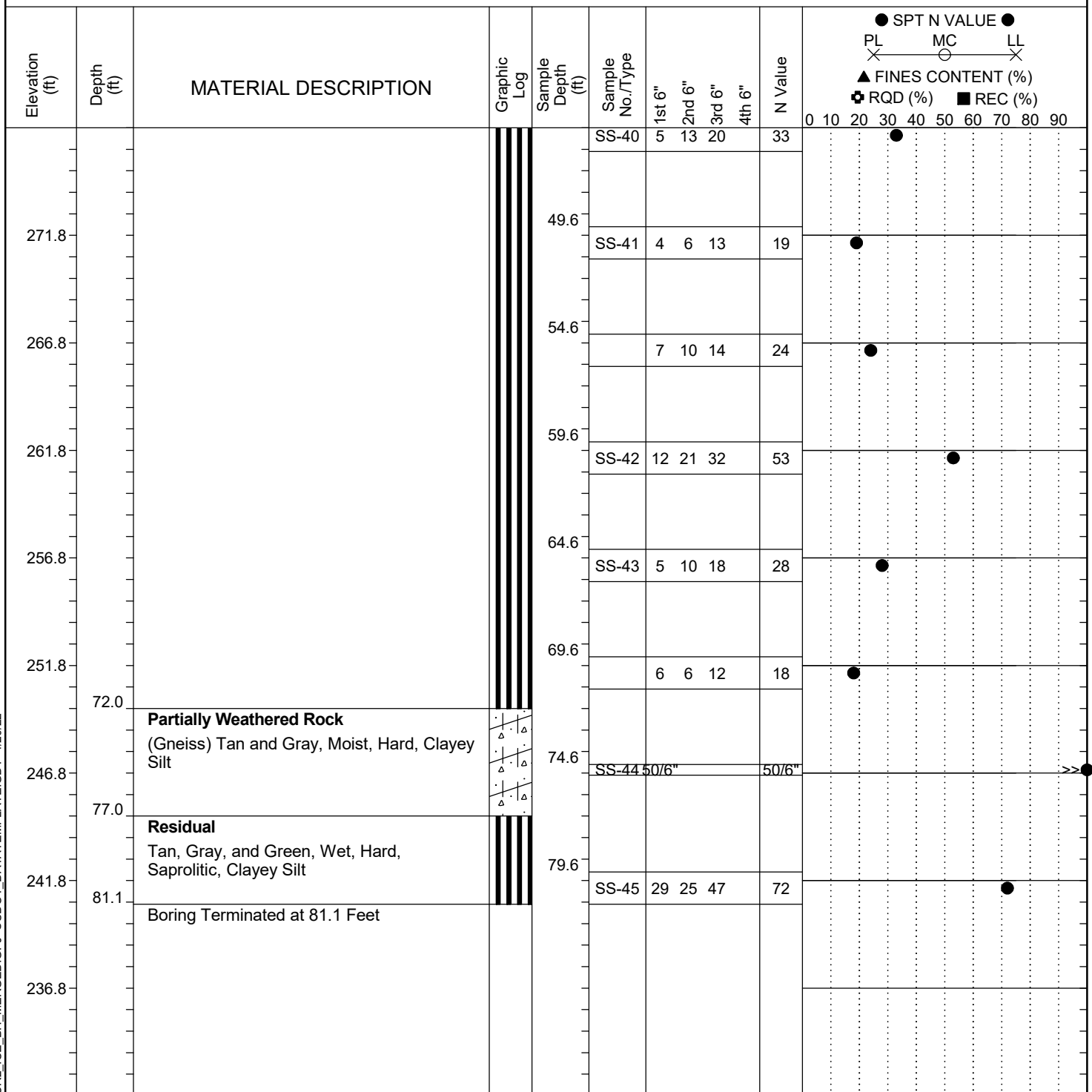
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SC_DOT 20-01_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 4/20/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

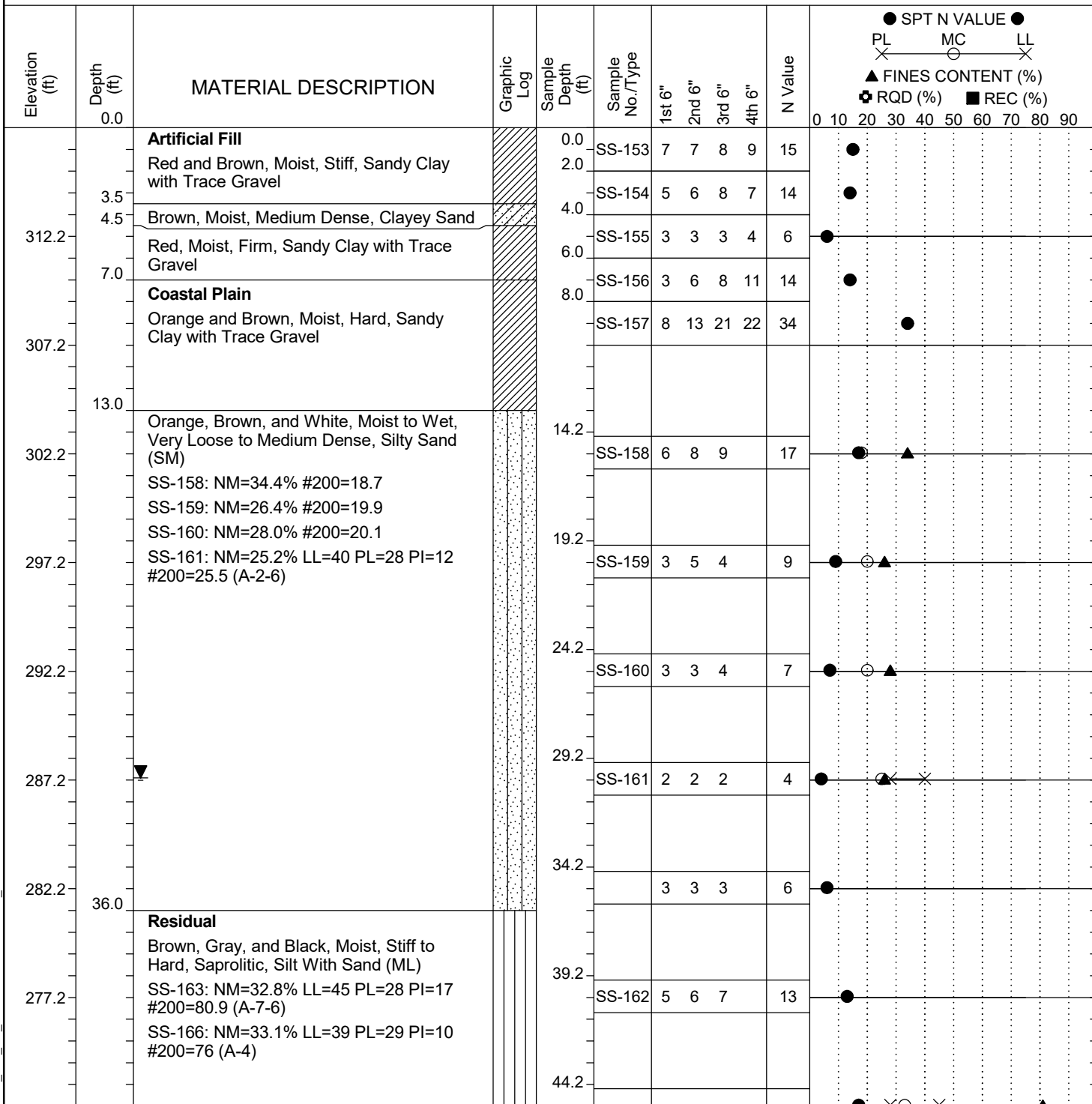
Project ID: P039719				County: Richland		Boring No.: G-127		
Site Description:		Carolina Crossroads Phase 2 - Bridge 42B					Route:	Broad River Rd.
Eng./Geo.: C. McIlroy		Boring Location: 204+24		Offset: 116 RT		Alignment: I20CL		
Elev.: 321.8 ft	Latitude: 34.03926754	Longitude: -81.09317171		Date Started:		3/1/2022		
Total Depth: 81.1 ft	Soil Depth: 81.1 ft	Core Depth: N/A ft		Date Completed:		3/2/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #435	Drill Method: Casing w/ Adv	Hammer Type: Automatic		Energy Ratio: 84.4%				
Core Size: N/A	Driller: M. Morgan	Groundwater: TOB N/A		24HR: 34 ft				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-128
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+30	Offset:	100 LT
Elev.:	317.2 ft	Latitude:	34.03980564	Longitude:	-81.09347298
Total Depth:	99.2 ft	Soil Depth:	99.2 ft	Date Started:	2/21/2022
Core Depth:	N/A ft	Date Completed:	2/21/2022	Alignment:	I20CL
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	29.9 ft

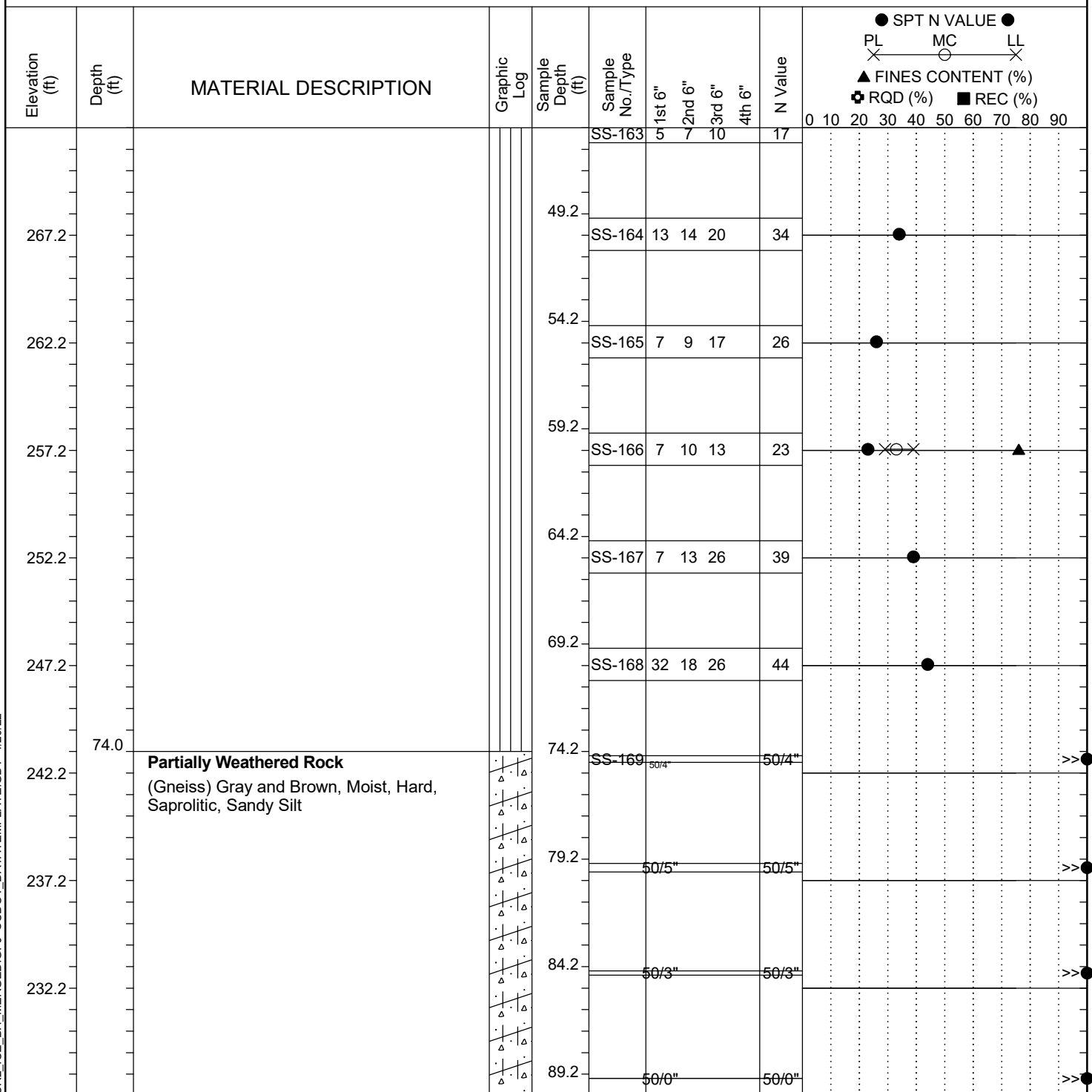


LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-128
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+30	Offset:	100 LT
Elev.:	317.2 ft	Latitude:	34.03980564	Longitude:	-81.09347298
Total Depth:	99.2 ft	Soil Depth:	99.2 ft	Date Started:	2/21/2022
Core Depth:	N/A ft	Date Completed:	2/21/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	29.9 ft



LEGEND

Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

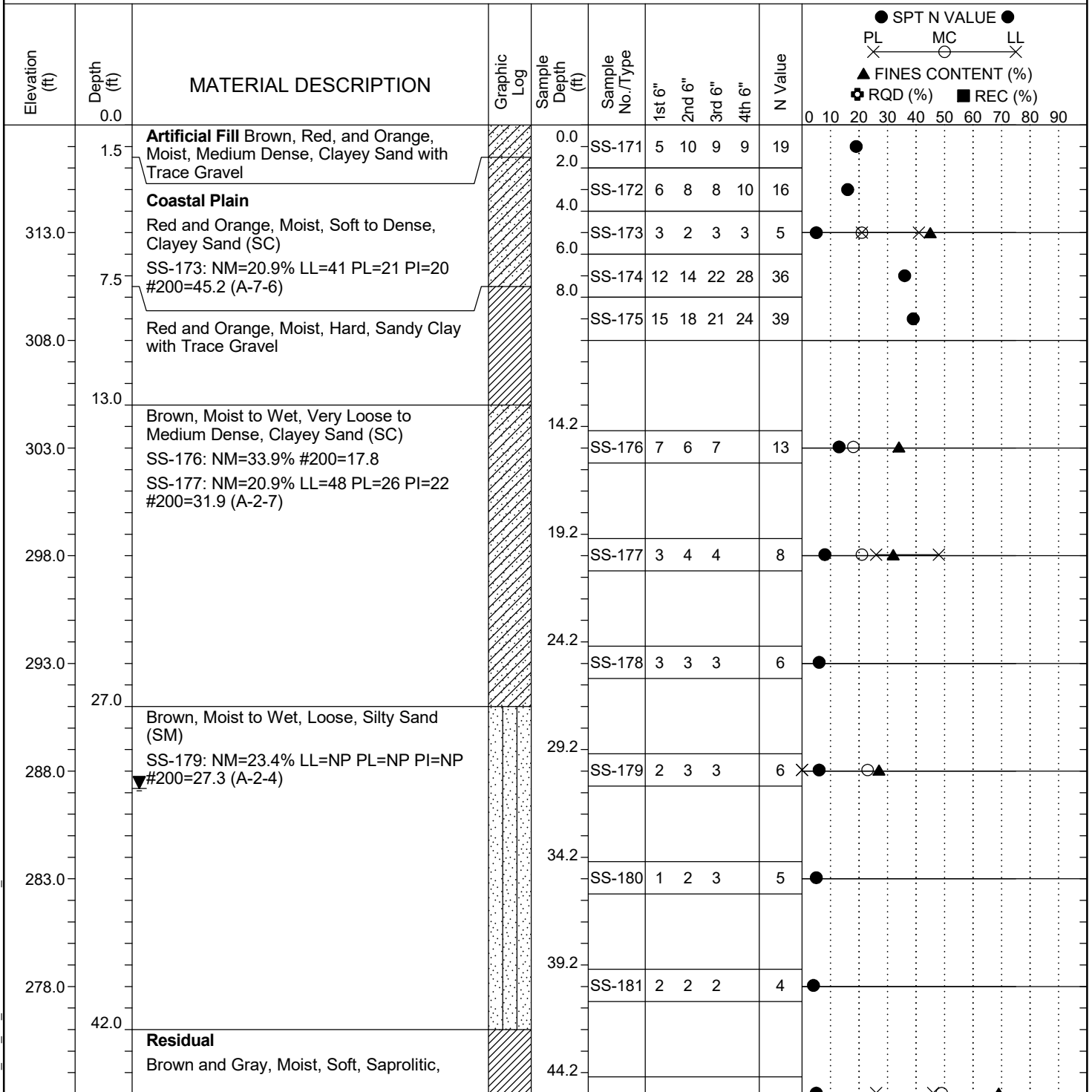
Project ID:	P039719	County:	Richland	Boring No.:	G-128
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+30	Offset:	100 LT
Elev.:	317.2 ft	Latitude:	34.03980564	Longitude:	-81.09347298
Total Depth:	99.2 ft	Soil Depth:	99.2 ft	Date Started:	2/21/2022
Core Depth:	N/A ft	Date Completed:	2/21/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	29.9 ft

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	● SPT N VALUE ● PL MC LL X—X—X ▲ FINES CONTENT (%) + RQD (%) ■ REC (%) 0 10 20 30 40 50 60 70 80 90
222.2				94.2	SS-170	28	50/3"			50/3"	>>●
217.2	99.2	Boring Terminated at 99.2 Feet		99.2		50/0"				50/0"	>>●
212.2											
207.2											
202.2											
197.2											
192.2											
187.2											

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:		P039719			County:		Richland		Boring No.:		G-129				
Site Description:		Carolina Crossroads Phase 2 - Bridge 42B								Route:		Broad River Rd.			
Eng./Geo.:		M. Stanbury		Boring Location:		204+23		Offset:		130 LT		Alignment:		I20CL	
Elev.:		318.0 ft		Latitude:		34.03987182		Longitude:		-81.09353695		Date Started:		2/22/2022	
Total Depth:		64.5 ft		Soil Depth:		64.5 ft		Core Depth:		N/A ft		Date Completed:		2/22/2022	
Bore Hole Diameter (in):			2.25		Sampler Configuration			Liner Required:		Y (N)		Liner Used:		Y (N)	
Drill Machine:		D-50 #439		Drill Method:		RW		Hammer Type:		Automatic		Energy Ratio:		90.8%	
Core Size:		N/A		Driller:		R. Cassell		Groundwater:		TOB N/A		24HR		30.8 ft	



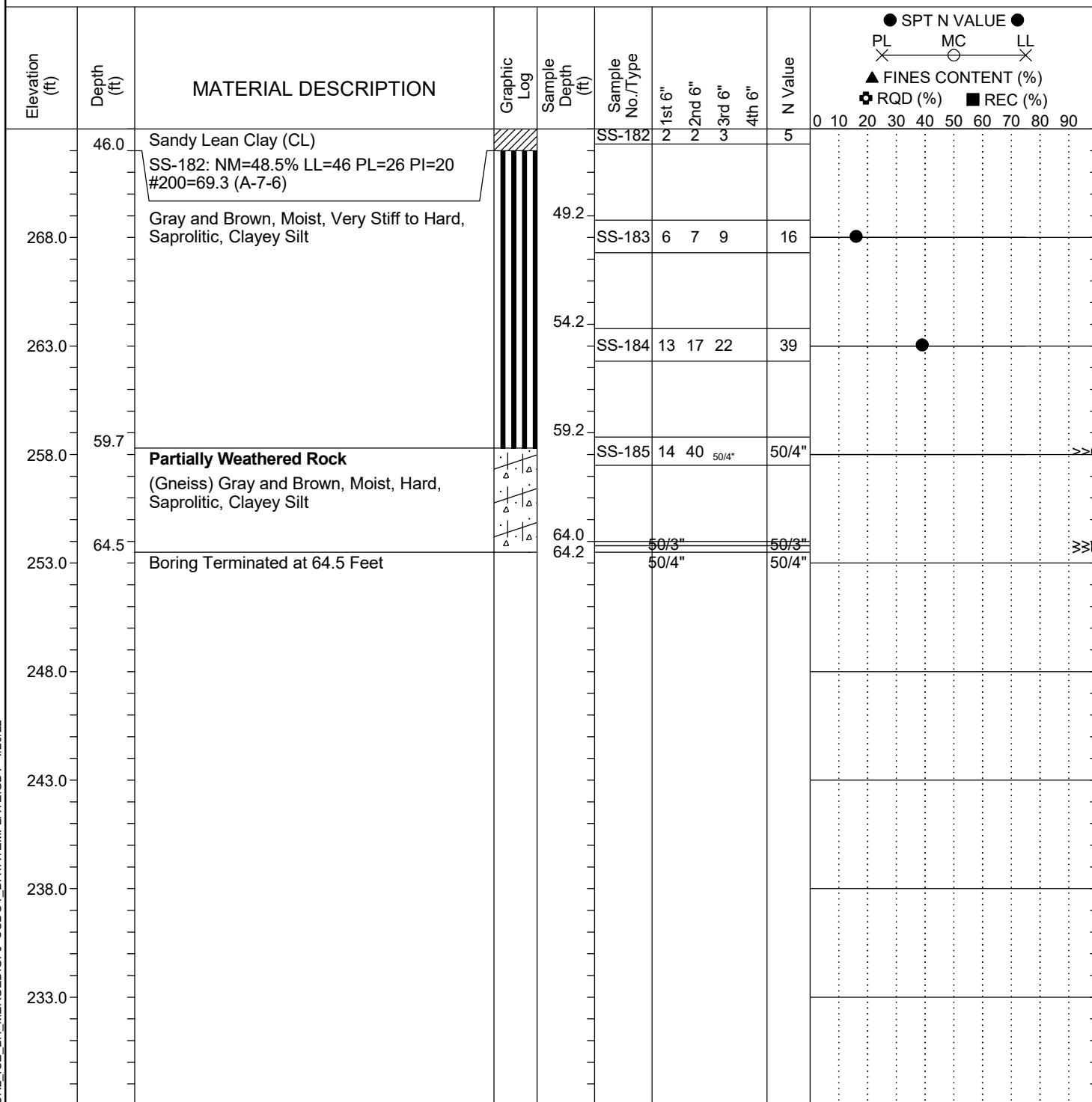
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SC.DOT 20-81_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 4/20/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

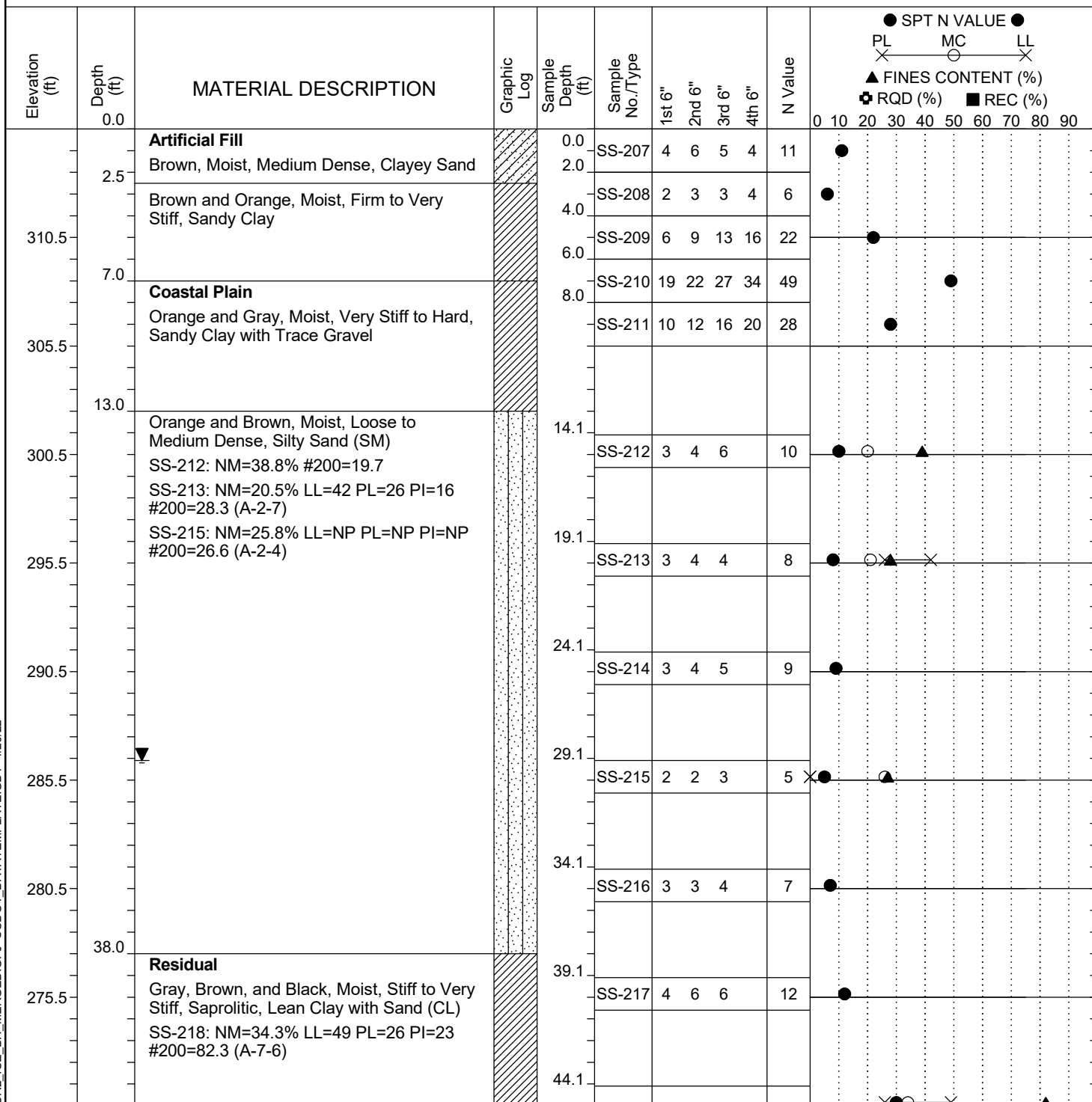
Project ID:	P039719	County:	Richland	Boring No.:	G-129
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+23	Offset:	130 LT
Elev.:	318.0 ft	Latitude:	34.03987182	Longitude:	-81.09353695
Total Depth:	64.5 ft	Soil Depth:	64.5 ft	Date Started:	2/22/2022
Core Depth:	N/A ft	Date Completed:	2/22/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	30.8 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-130
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+99	Offset:	104 LT
Elev.:	315.5 ft	Latitude:	34.03990117	Longitude:	-81.09327556
Date Started:	2/24/2022				
Total Depth:	70.5 ft	Soil Depth:	70.5 ft	Core Depth:	N/A ft
Date Completed:	2/24/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
24HR	29.1 ft				



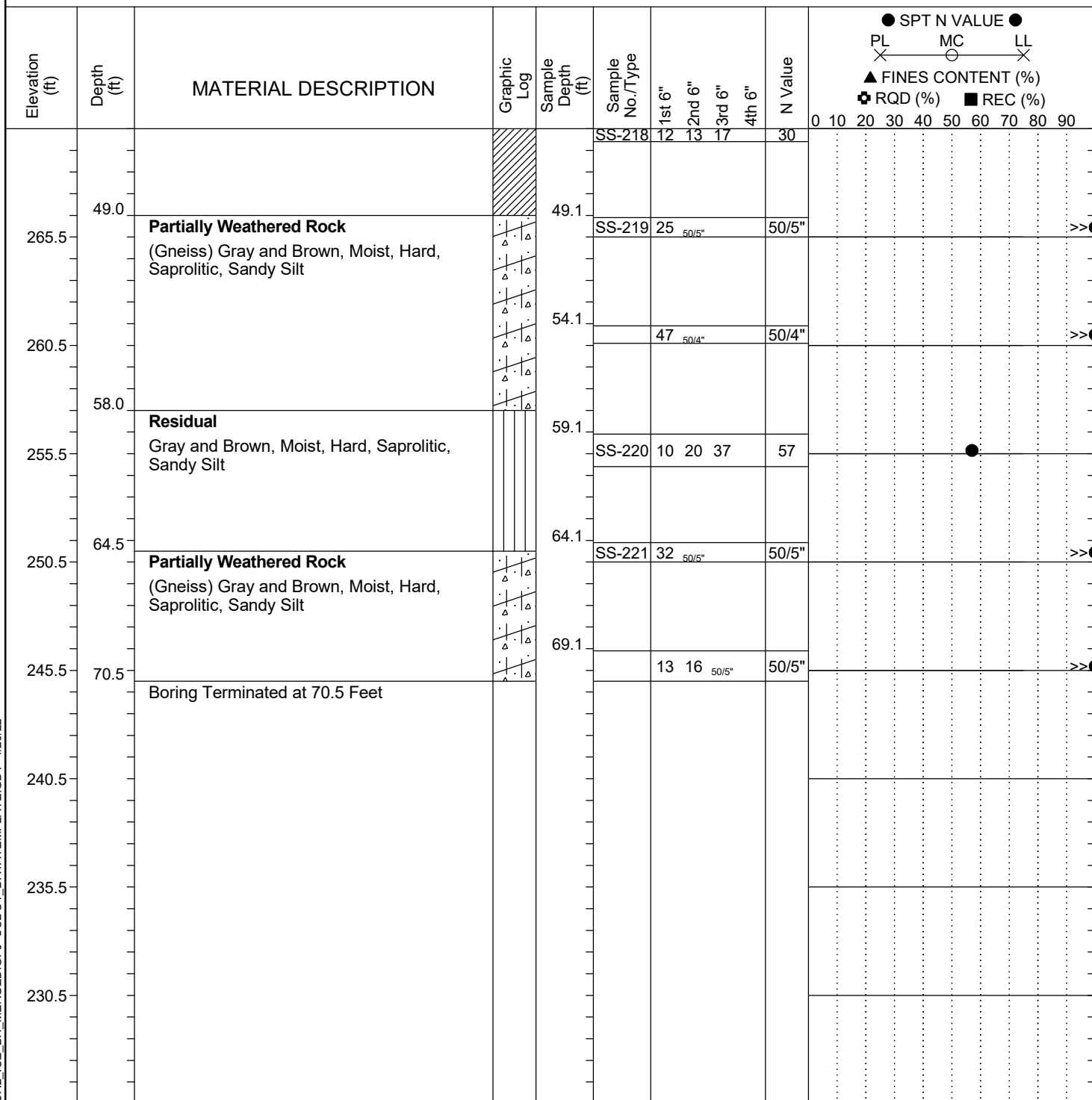
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SC_DOT 20-01_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 4/20/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

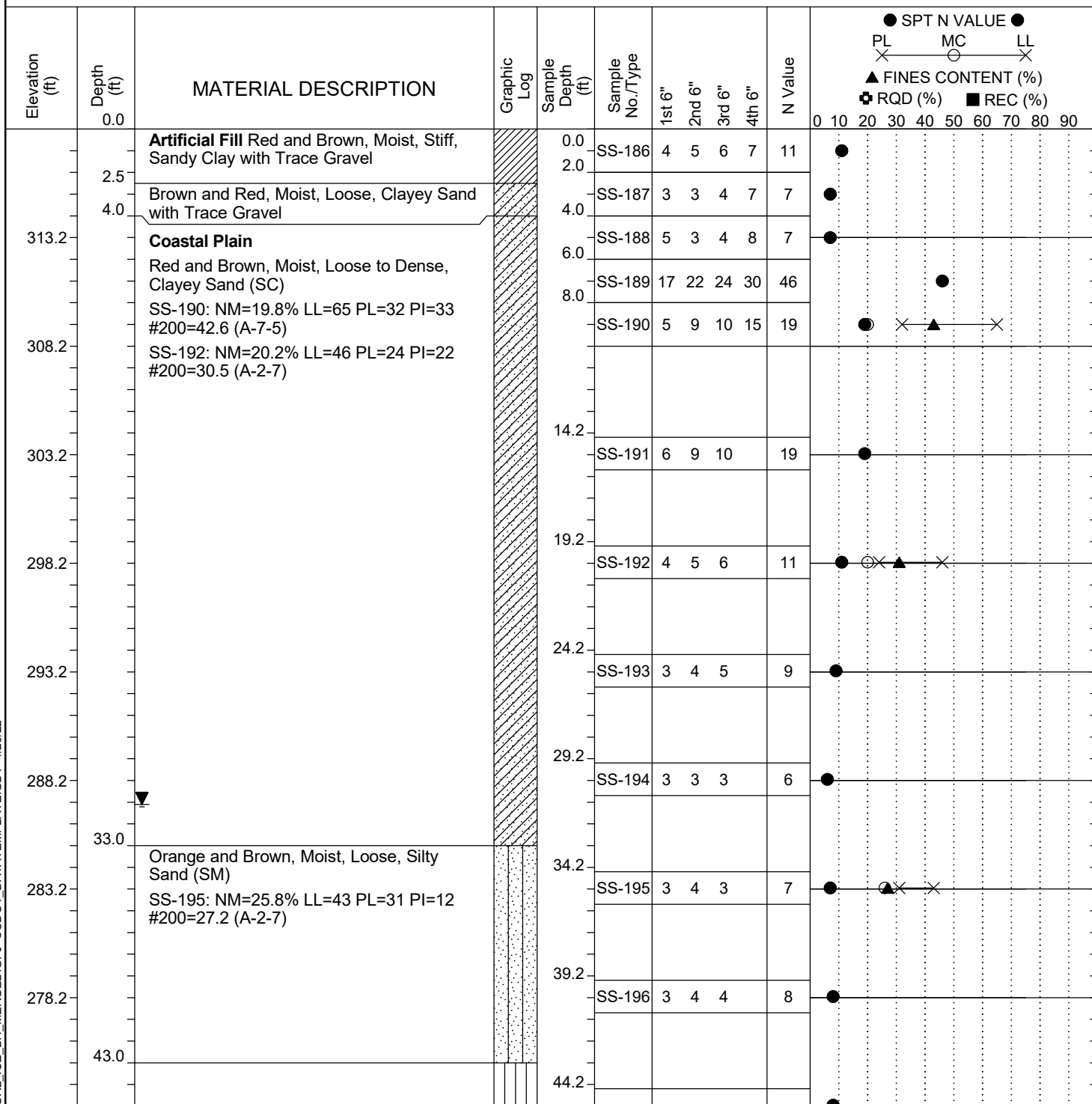
Project ID: P039719				County: Richland		Boring No.: G-130		
Site Description:		Carolina Crossroads Phase 2 - Bridge 42B					Route:	Broad River Rd.
Eng./Geo.: M. Stanbury		Boring Location: 204+99		Offset: 104 LT		Alignment: I20CL		
Elev.: 315.5 ft	Latitude: 34.03990117	Longitude: -81.09327556		Date Started:		2/24/2022		
Total Depth: 70.5 ft	Soil Depth: 70.5 ft	Core Depth: N/A ft		Date Completed:		2/24/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #439	Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 90.8%			
Core Size: N/A	Driller: R. Cassell		Groundwater: TOB N/A		24HR	29.1 ft		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID: P039719				County: Richland		Boring No.: G-131		
Site Description:		Carolina Crossroads Phase 2 - Bridge 42B					Route:	Broad River Rd.
Eng./Geo.: M. Stanbury		Boring Location: 203+85		Offset: 118 LT		Alignment: I20CL		
Elev.: 318.2 ft	Latitude: 34.03979585	Longitude: -81.09362896		Date Started: 2/23/2022				
Total Depth: 109.2 ft	Soil Depth: 109.2 ft	Core Depth: N/A ft		Date Completed: 2/23/2022				
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #439	Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 90.8%			
Core Size: N/A	Driller: R. Cassell		Groundwater: TOB N/A		24HR: 31.1 ft			



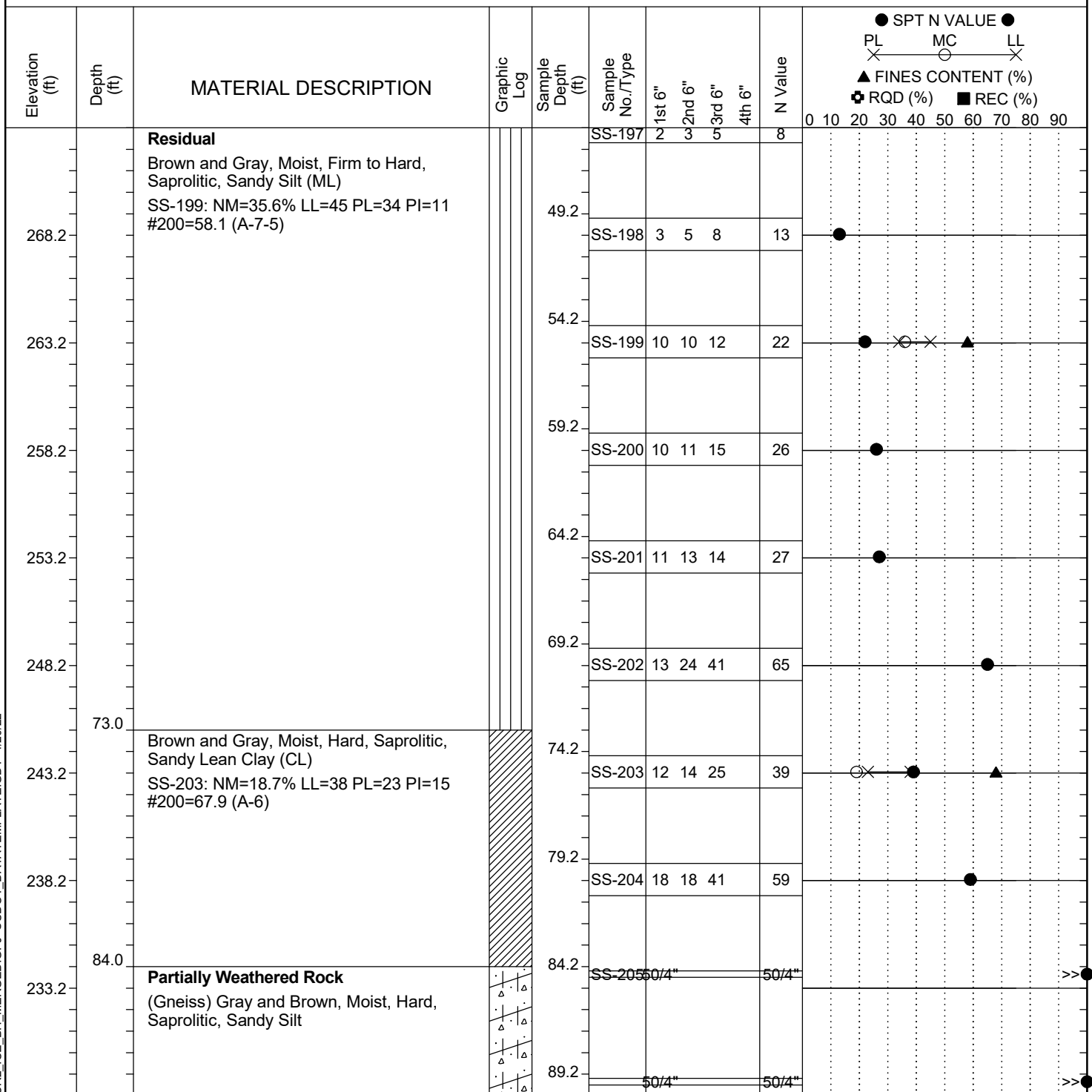
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SC_DOT 20-81_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 4/20/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-131
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	203+85	Offset:	118 LT
Elev.:	318.2 ft	Latitude:	34.03979585	Longitude:	-81.09362896
Total Depth:	109.2 ft	Soil Depth:	109.2 ft	Date Started:	2/23/2022
Core Depth:	N/A ft	Date Completed:	2/23/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	31.1 ft



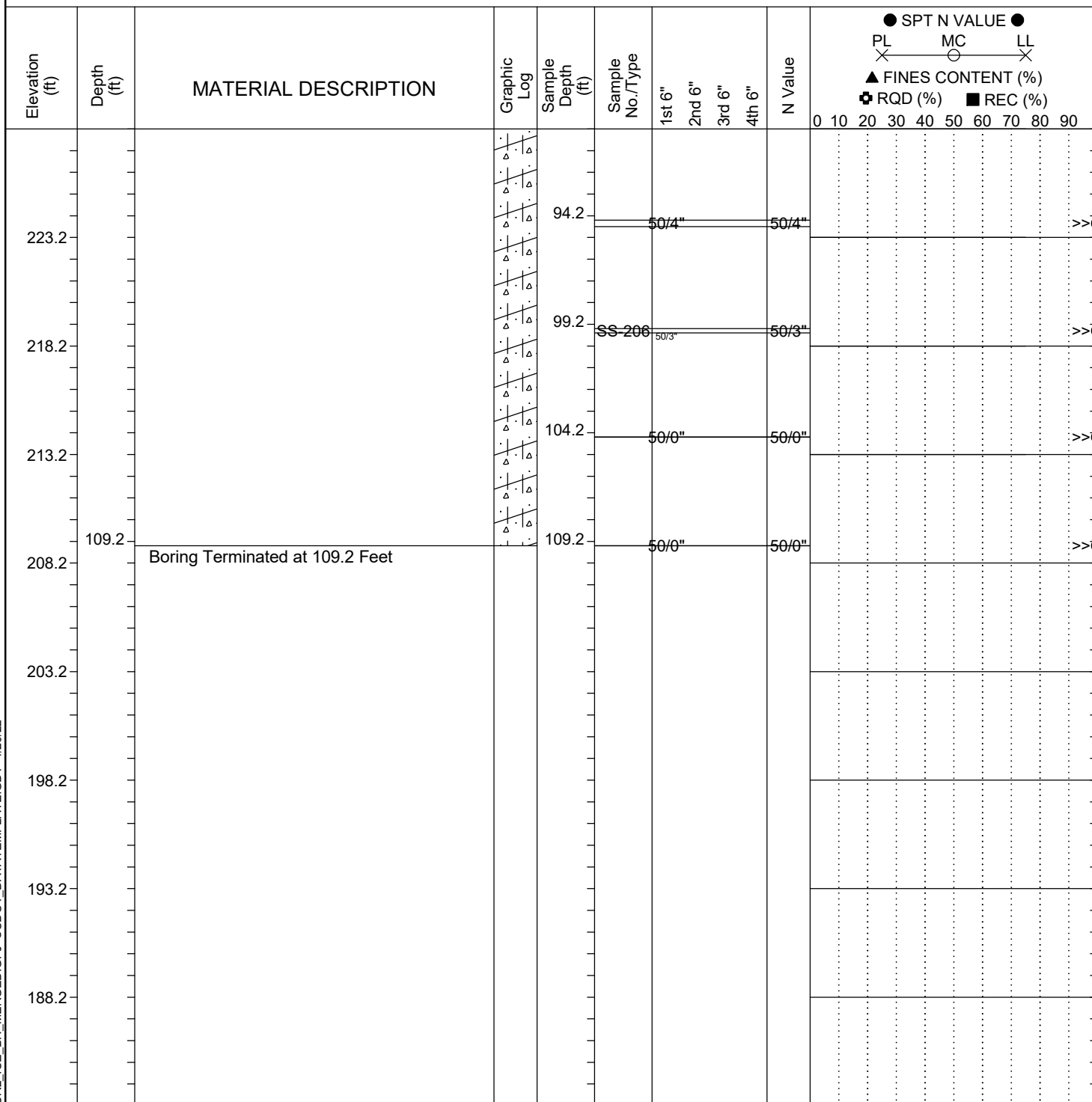
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SC.DOT 20-81_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 4/20/22

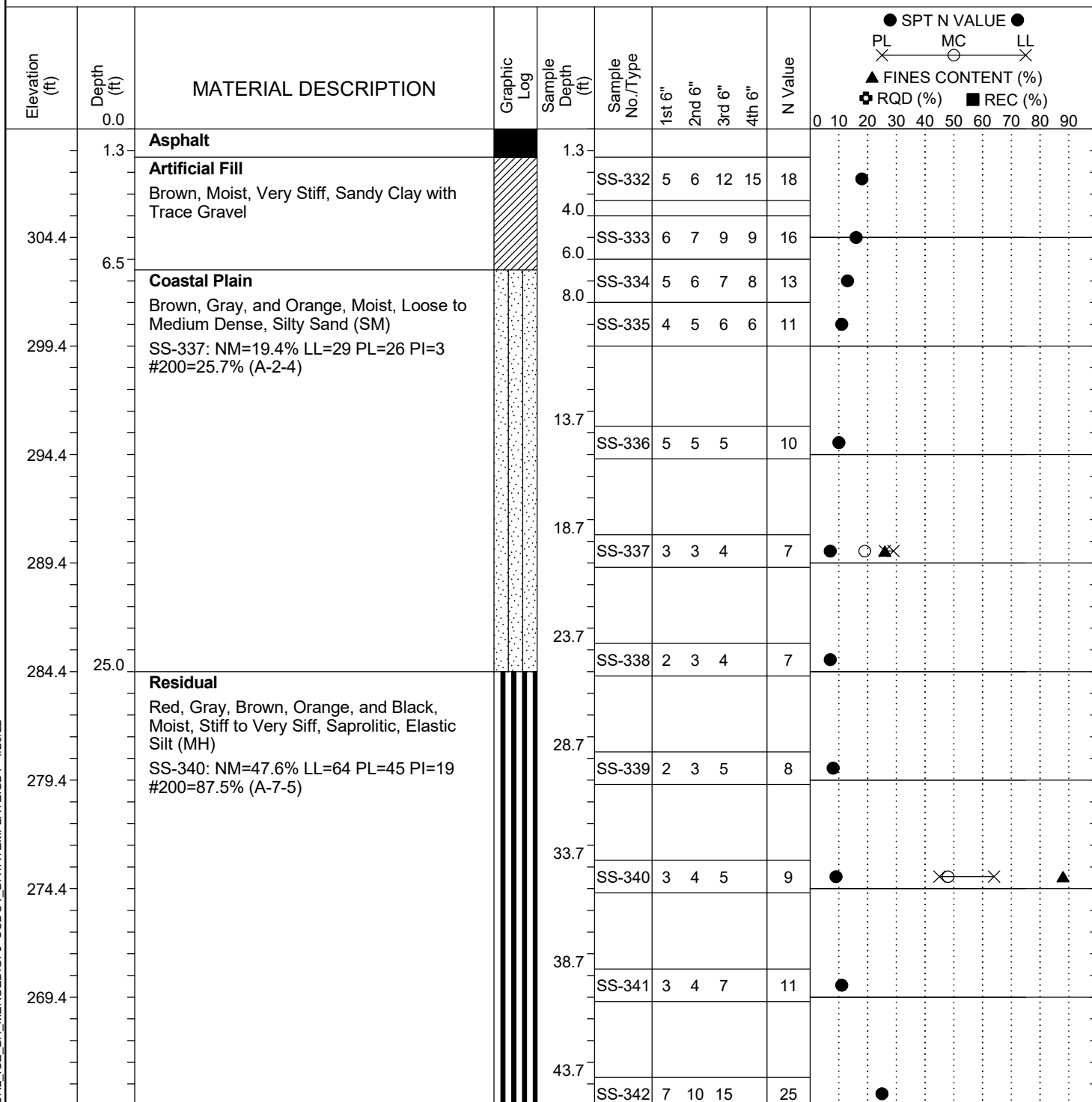
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-131
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	203+85	Offset:	118 LT
Elev.:	318.2 ft	Latitude:	34.03979585	Longitude:	-81.09362896
Total Depth:	109.2 ft	Soil Depth:	109.2 ft	Date Started:	2/23/2022
Core Depth:	N/A ft	Date Completed:	2/23/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	31.1 ft


LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-134
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+13	Offset:	4 RT
Elev.:	309.4 ft	Latitude:	34.03953053	Longitude:	-81.09336881
Total Depth:	73.7 ft	Soil Depth:	73.7 ft	Date Started:	3/14/2022
Core Depth:	N/A ft	Date Completed:	3/14/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A

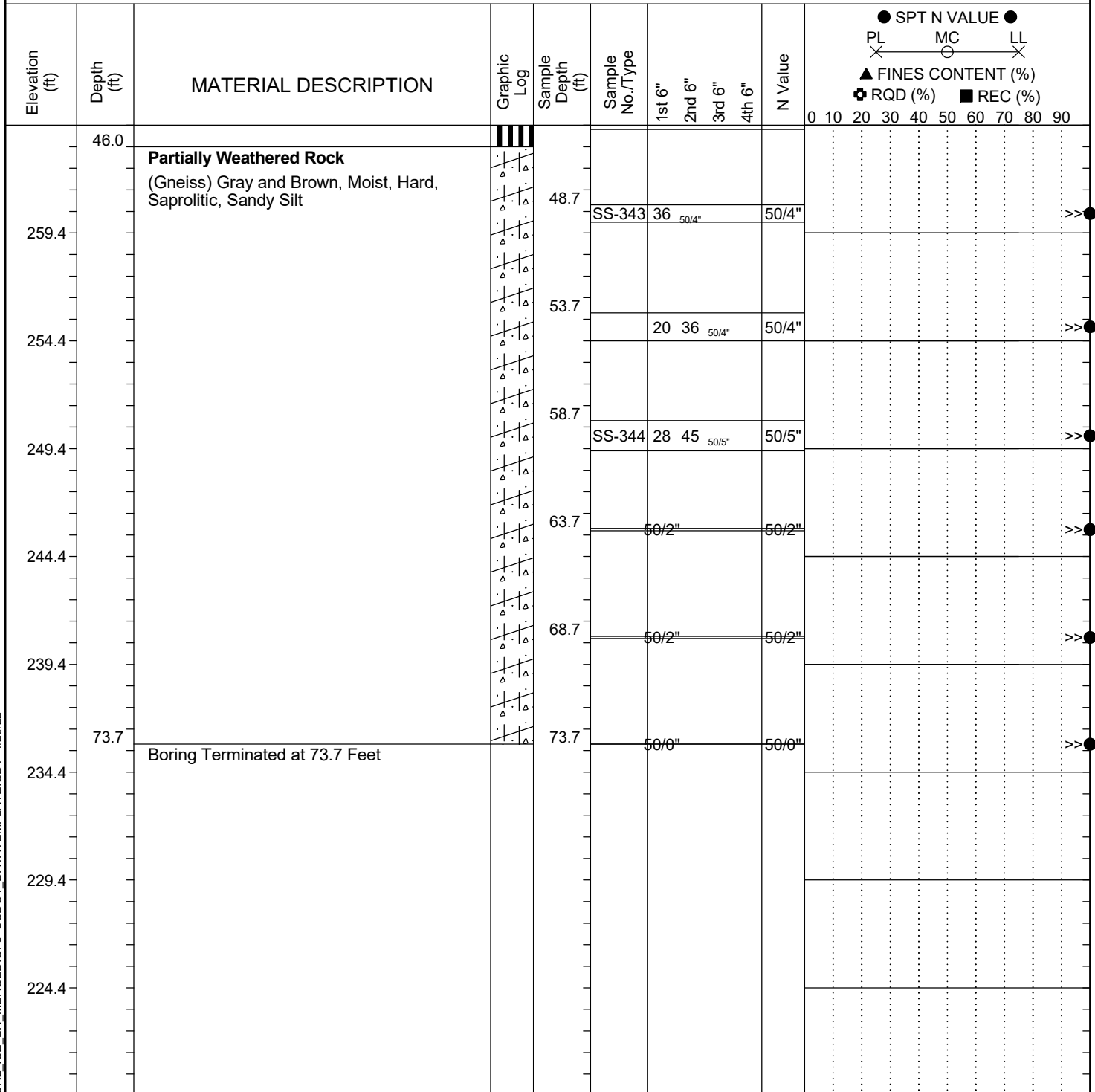


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

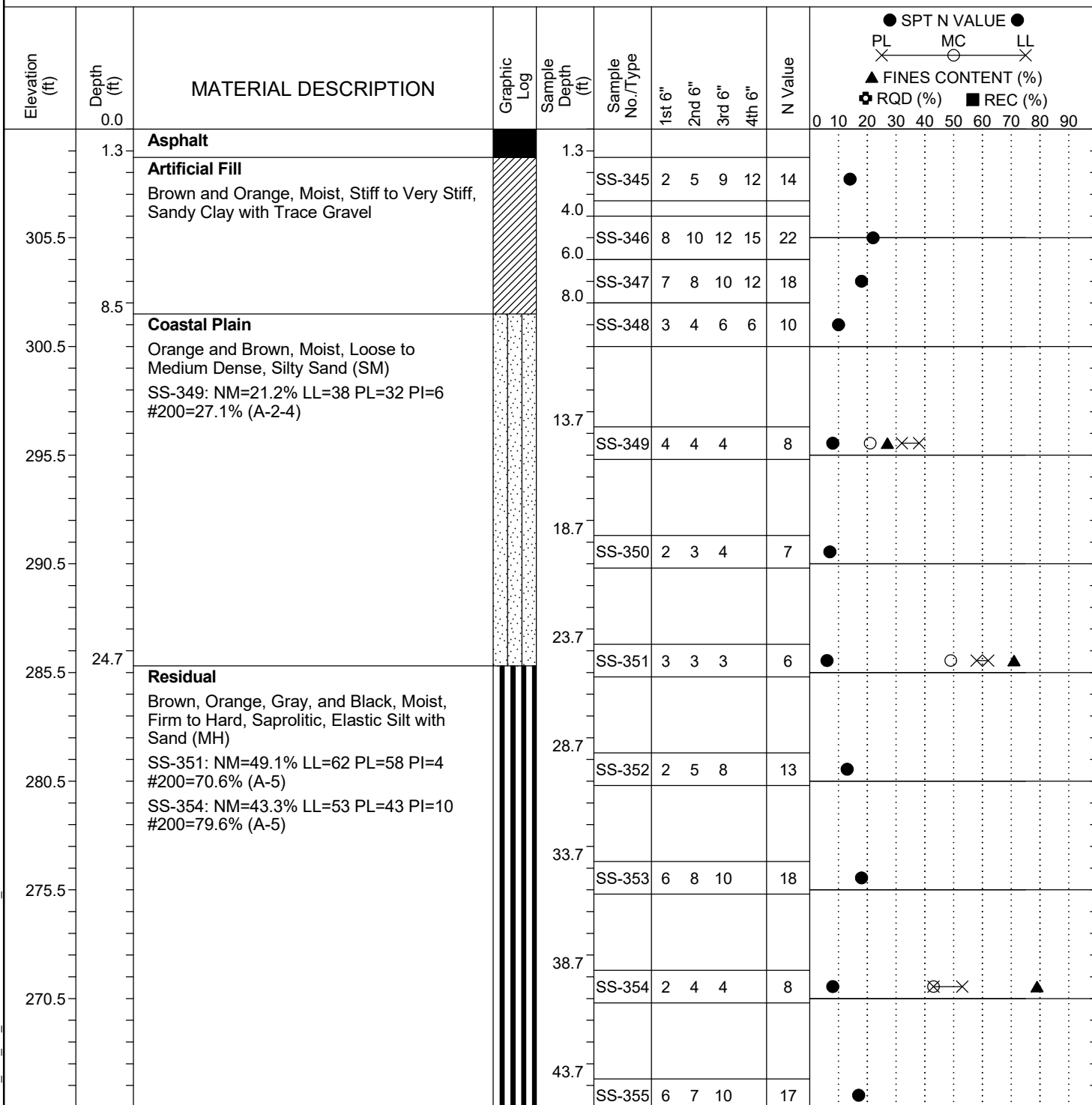
Project ID: P039719				County: Richland		Boring No.: G-134		
Site Description:		Carolina Crossroads Phase 2 - Bridge 42B					Route: Broad River Rd.	
Eng./Geo.: M. Stanbury		Boring Location: 204+13		Offset: 4 RT		Alignment: I20CL		
Elev.: 309.4 ft		Latitude: 34.03953053		Longitude: -81.09336881		Date Started: 3/14/2022		
Total Depth: 73.7 ft		Soil Depth: 73.7 ft		Core Depth: N/A ft		Date Completed: 3/14/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #439		Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 90.8%		
Core Size: N/A		Driller: R. Cassell		Groundwater: TOB N/A		24HR FIAD		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-135
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+97	Offset:	4 RT
Elev.:	310.5 ft	Latitude:	34.03963447	Longitude:	-81.09312144
Total Depth:	73.7 ft	Soil Depth:	73.7 ft	Date Started:	3/15/2022
Core Depth:	N/A ft	Date Completed:	3/15/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	N/A	24HR FIAD

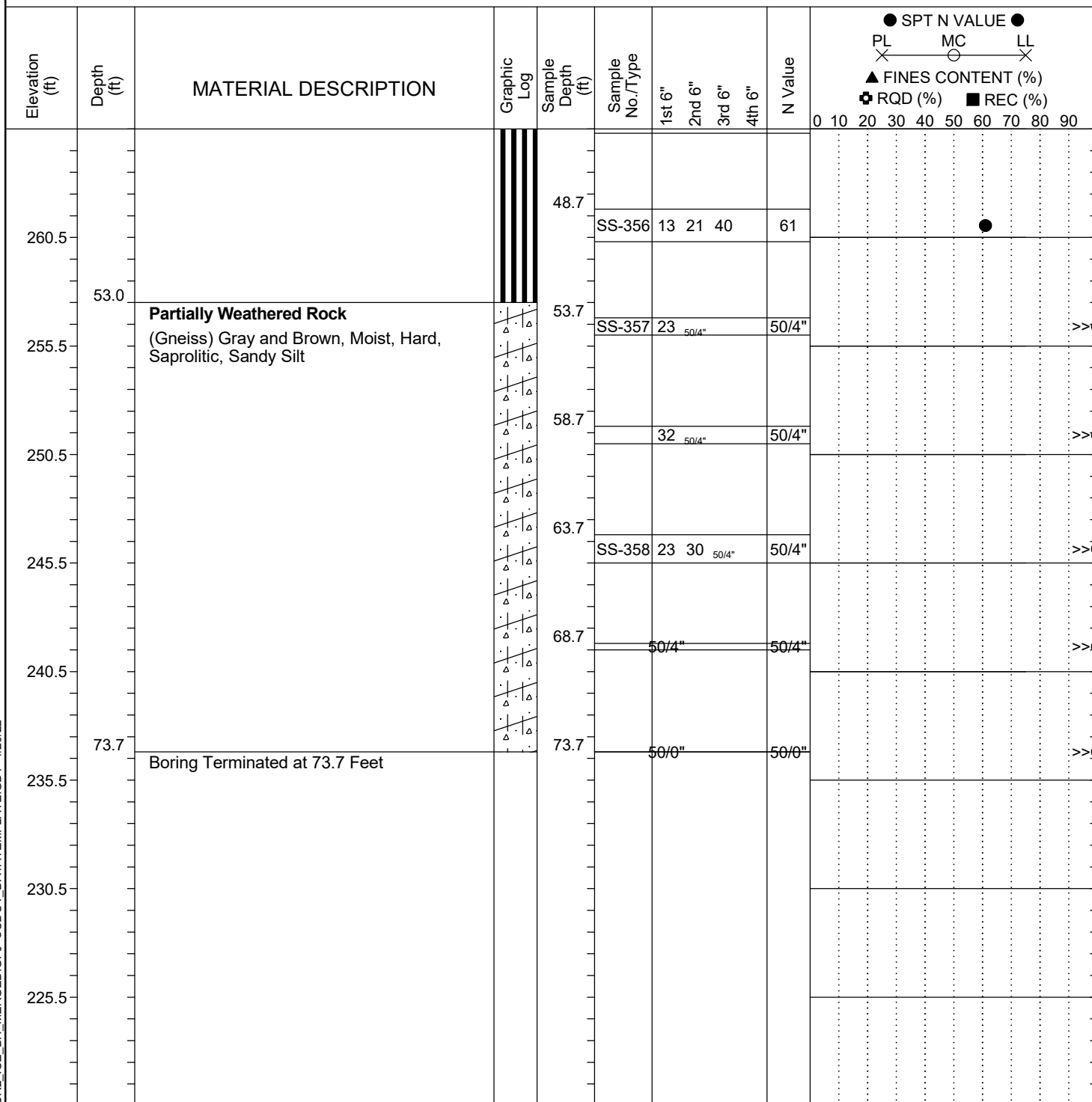


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

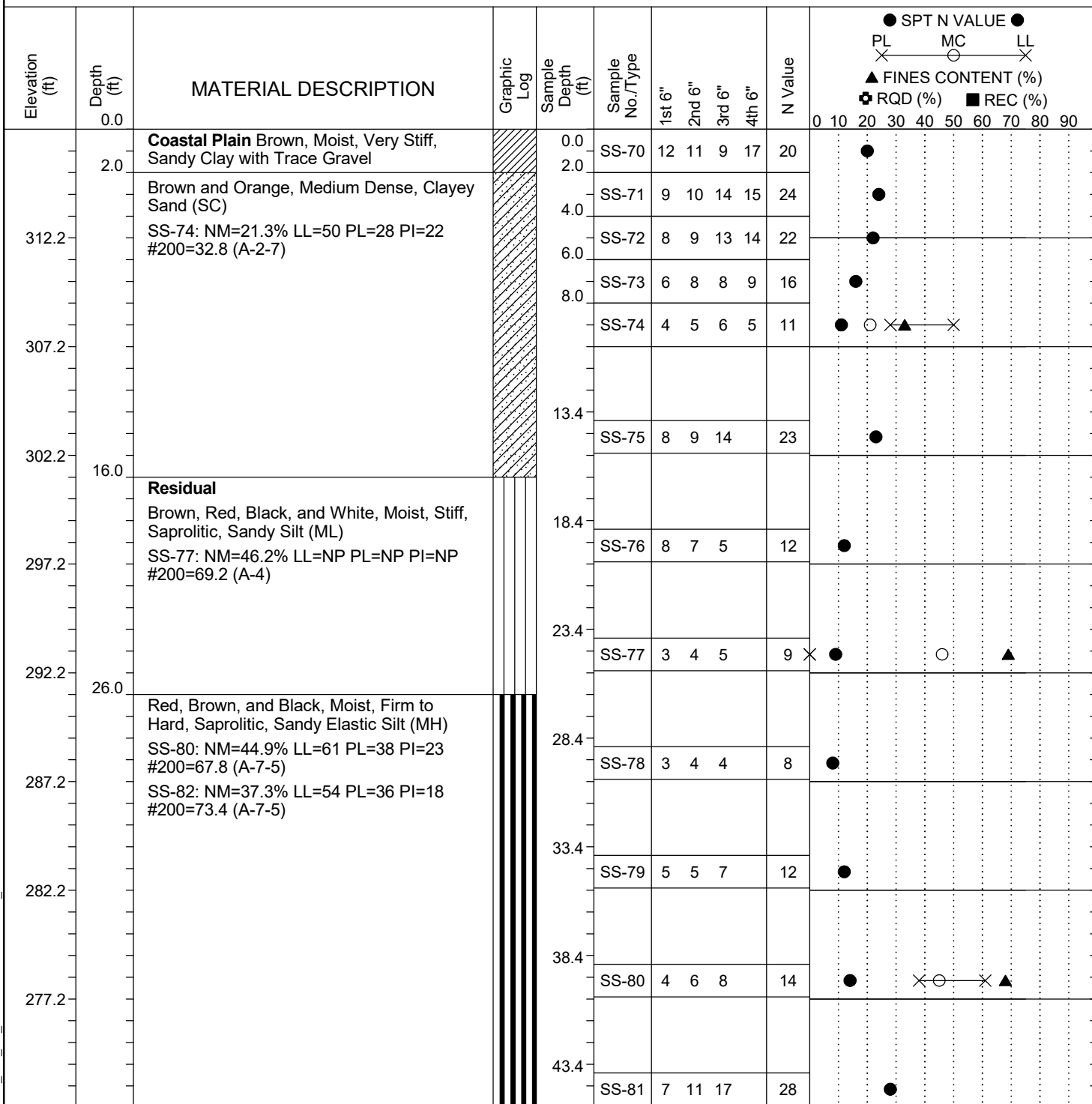
Project ID:	P039719	County:	Richland	Boring No.:	G-135
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+97	Offset:	4 RT
Elev.:	310.5 ft	Latitude:	34.03963447	Longitude:	-81.09312144
Total Depth:	73.7 ft	Soil Depth:	73.7 ft	Date Started:	3/15/2022
Core Depth:	N/A ft	Date Completed:	3/15/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-136
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+74	Offset:	96 RT
Elev.:	317.2 ft	Latitude:	34.03937832	Longitude:	-81.09305308
Total Depth:	83.6 ft	Soil Depth:	83.6 ft	Date Started:	2/14/2022
Core Depth:	N/A ft	Date Completed:	2/14/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	N/A	24HR

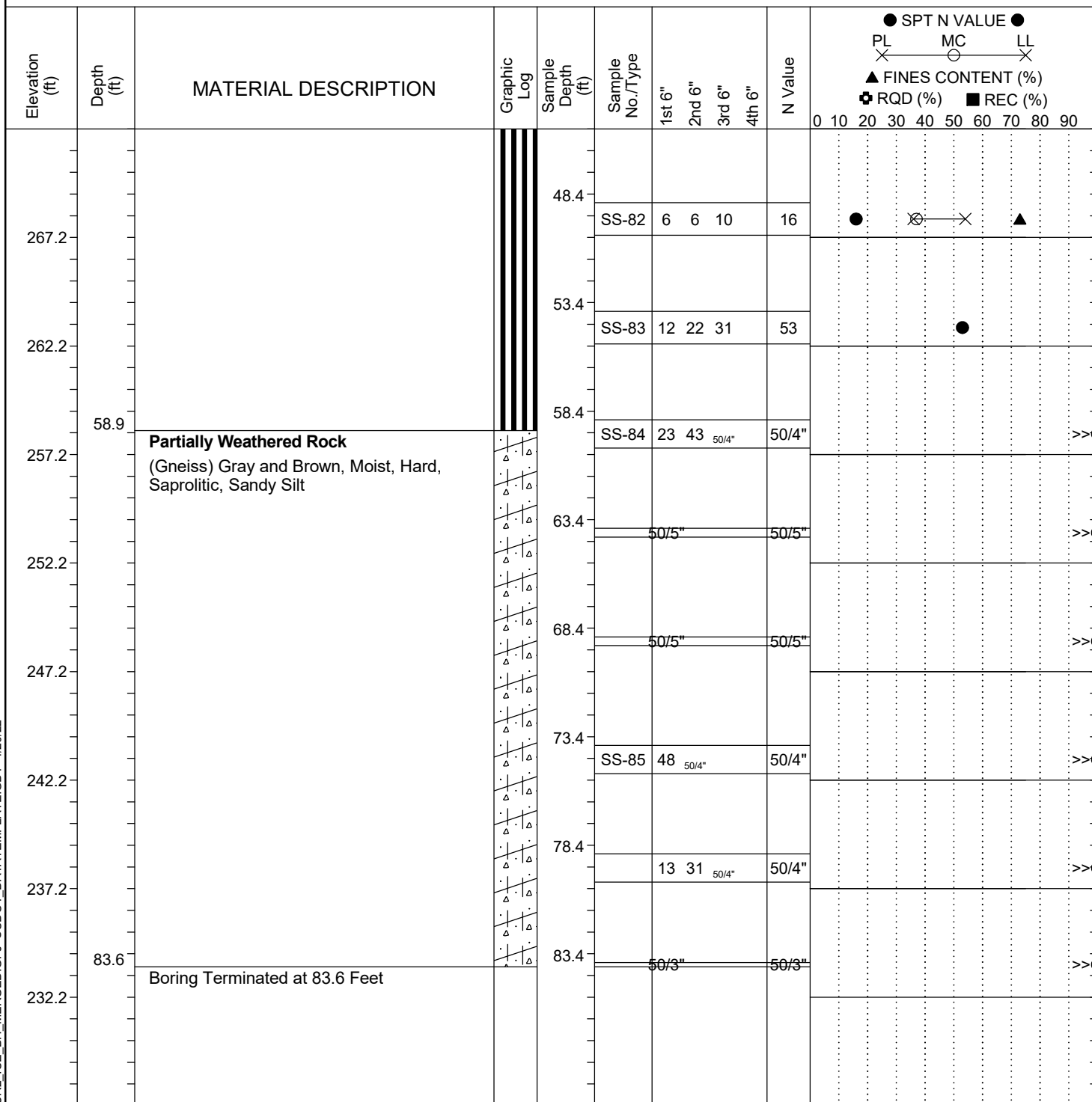


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

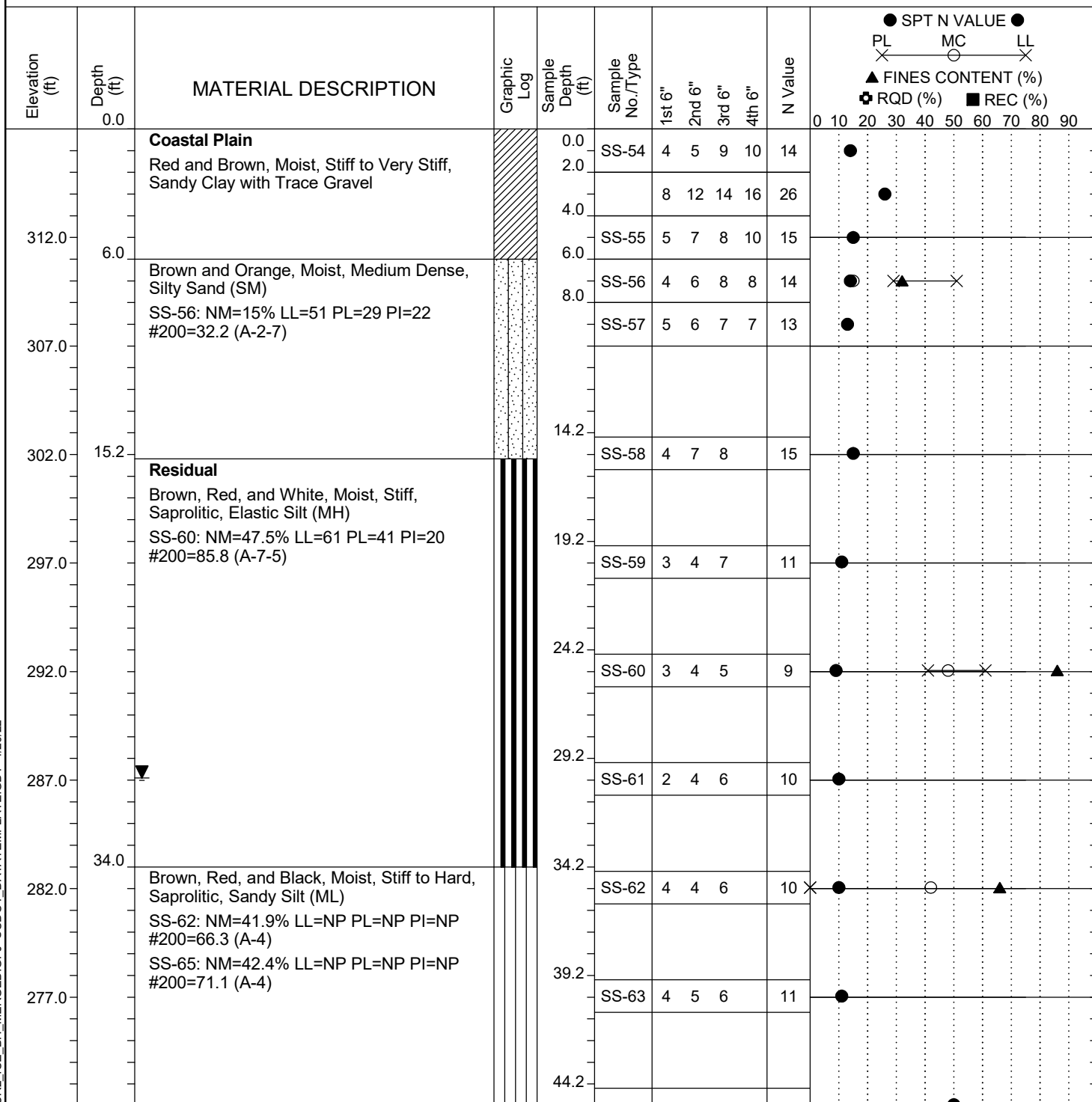
Project ID:	P039719	County:	Richland	Boring No.:	G-136
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+74	Offset:	96 RT
Elev.:	317.2 ft	Latitude:	34.03937832	Longitude:	-81.09305308
Total Depth:	83.6 ft	Soil Depth:	83.6 ft	Core Depth:	N/A ft
Date Started:	2/14/2022				
Date Completed:	2/14/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
24HR					



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-138
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	205+04	Offset:	99 RT
Elev.:	317.0 ft	Latitude:	34.03940888	Longitude:	-81.09295977
Total Depth:	90.7 ft	Soil Depth:	90.7 ft	Date Started:	2/10/2022
Core Depth:	N/A ft	Date Completed:	2/10/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	29.9 ft



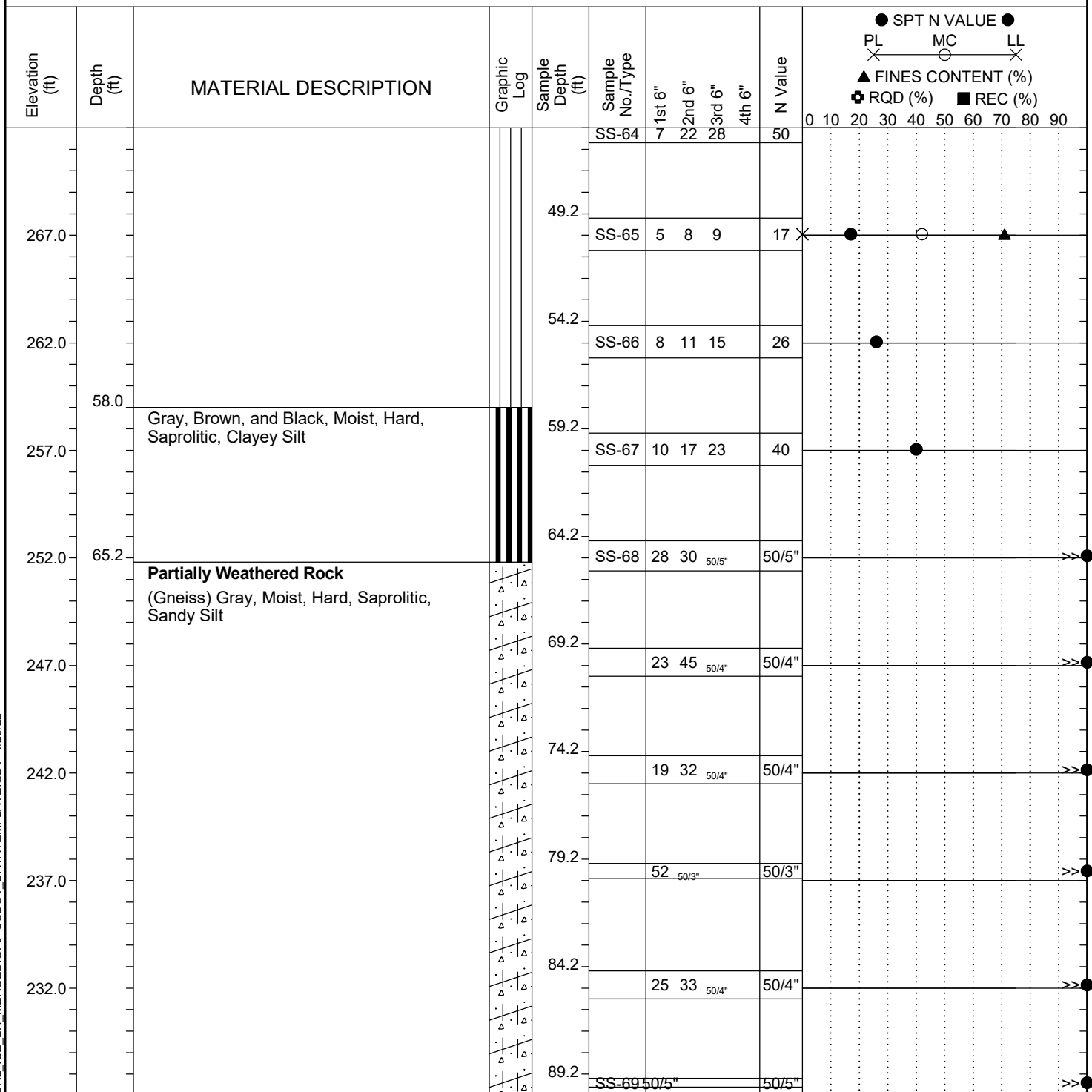
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SC.DOT 20-81_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 4/20/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-138
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	205+04	Offset:	99 RT
Elev.:	317.0 ft	Latitude:	34.03940888	Longitude:	-81.09295977
Date Started:	2/10/2022				
Total Depth:	90.7 ft	Soil Depth:	90.7 ft	Core Depth:	N/A ft
Date Completed:	2/10/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
24HR	29.9 ft				



LEGEND

Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

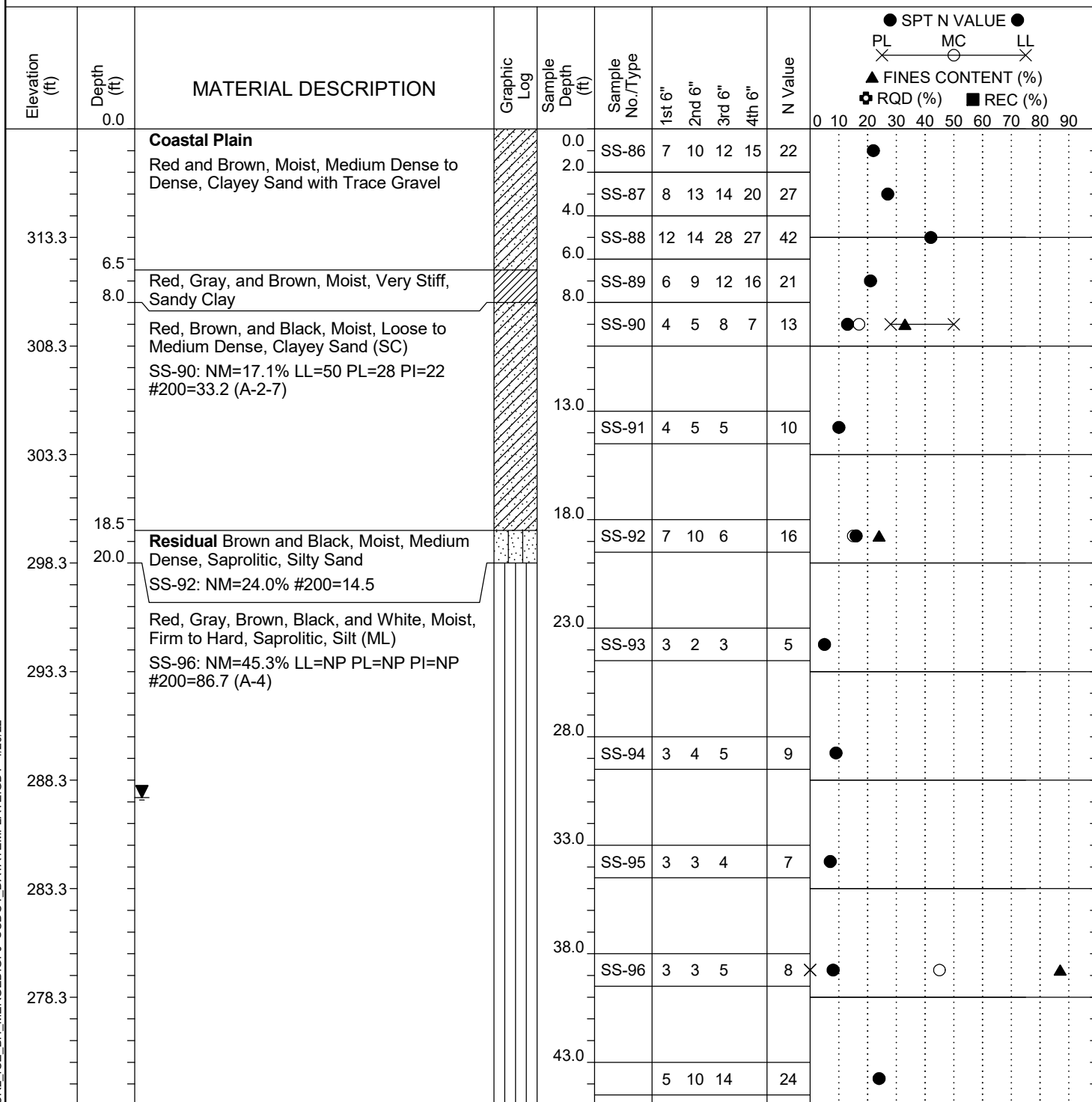
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Site Description:		Carolina Crossroads Phase 2 - Bridge 42B								Route:		Broad River Rd.			
Eng./Geo.:		M. Stanbury		Boring Location:		205+04		Offset:		99 RT		Alignment:		I20CL	
Elev.:		317.0 ft		Latitude:		34.03940888		Longitude:		-81.09295977		Date Started:		2/10/2022	
Total Depth:		90.7 ft		Soil Depth:		90.7 ft		Core Depth:		N/A ft		Date Completed:		2/10/2022	
Bore Hole Diameter (in):			2.25		Sampler Configuration			Liner Required:		Y (N)		Liner Used:		Y (N)	
Drill Machine:		D-50 #439		Drill Method:		RW		Hammer Type:		Automatic		Energy Ratio:		90.8%	
Core Size:		N/A		Driller:		R. Cassell		Groundwater:		TOB N/A		24HR		29.9 ft	

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	<div> ● SPT N VALUE ● PL MC LL X ——— X ▲ FINES CONTENT (%) + RQD (%) ■ REC (%) </div>
	90.7	Boring Terminated at 90.7 Feet									0 10 20 30 40 50 60 70 80 90
222.0											
217.0											
212.0											
207.0											
202.0											
197.0											
192.0											
187.0											

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-139
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+92	Offset:	107 RT
Elev.:	318.3 ft	Latitude:	34.03937442	Longitude:	-81.0929833
Total Depth:	69.4 ft	Soil Depth:	69.4 ft	Date Started:	2/15/2022
Core Depth:	N/A ft	Date Completed:	2/15/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	30.8 ft

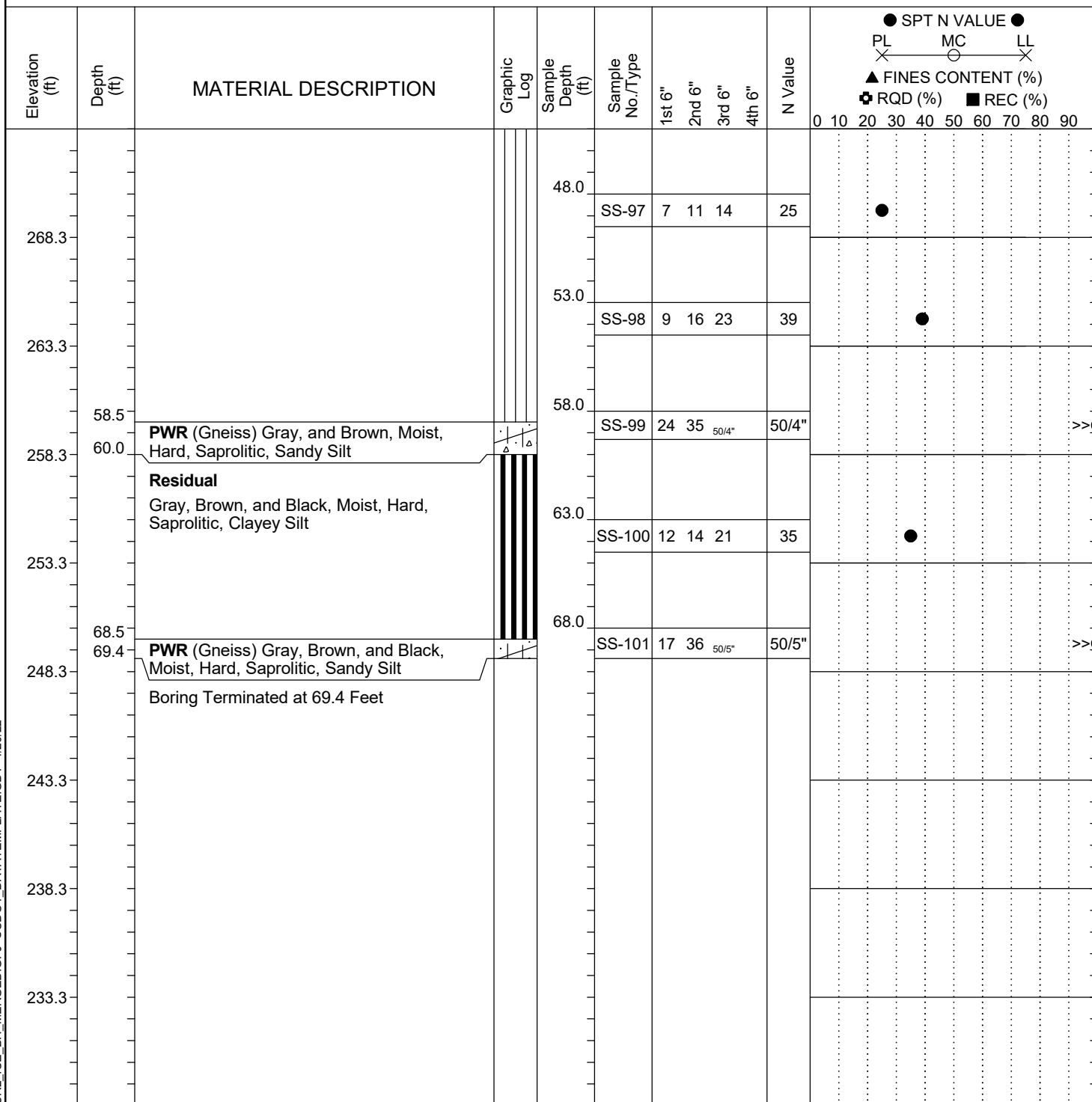


LEGEND

Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

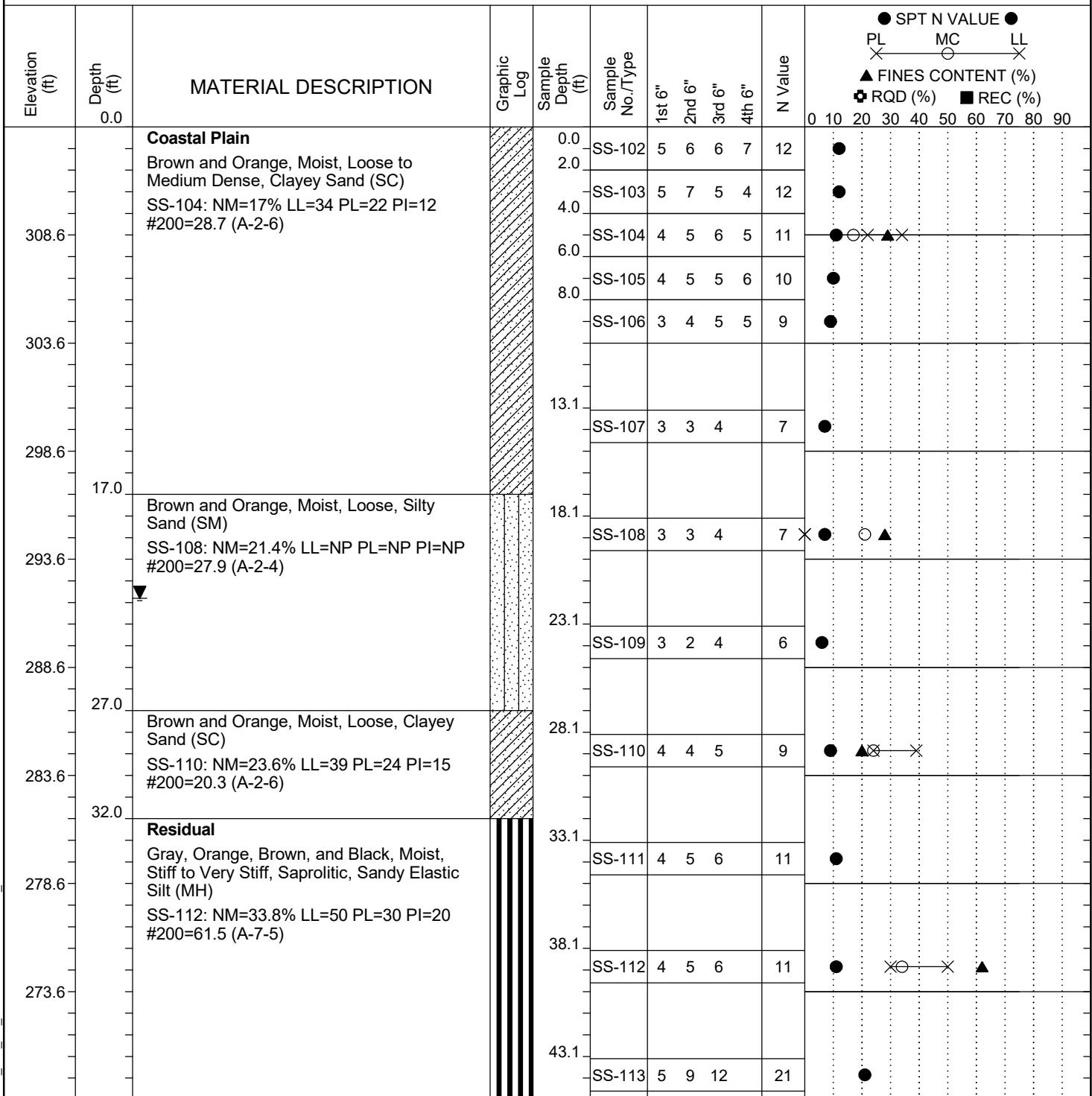
Project ID: P039719				County: Richland		Boring No.: G-139		
Site Description:		Carolina Crossroads Phase 2 - Bridge 42B					Route:	Broad River Rd.
Eng./Geo.: M. Stanbury		Boring Location: 204+92		Offset: 107 RT		Alignment: I20CL		
Elev.: 318.3 ft	Latitude: 34.03937442	Longitude: -81.0929833		Date Started: 2/15/2022				
Total Depth: 69.4 ft	Soil Depth: 69.4 ft	Core Depth: N/A ft		Date Completed: 2/15/2022				
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #439	Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 90.8%			
Core Size: N/A	Driller: R. Cassell		Groundwater: TOB N/A		24HR 30.8 ft			



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-140
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	205+98	Offset:	90 RT
Elev.:	313.6 ft	Latitude:	34.03954703	Longitude:	-81.09269585
Total Depth:	63.4 ft	Soil Depth:	63.4 ft	Date Started:	2/16/2022
Core Depth:	N/A ft	Date Completed:	2/16/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	21.8 ft

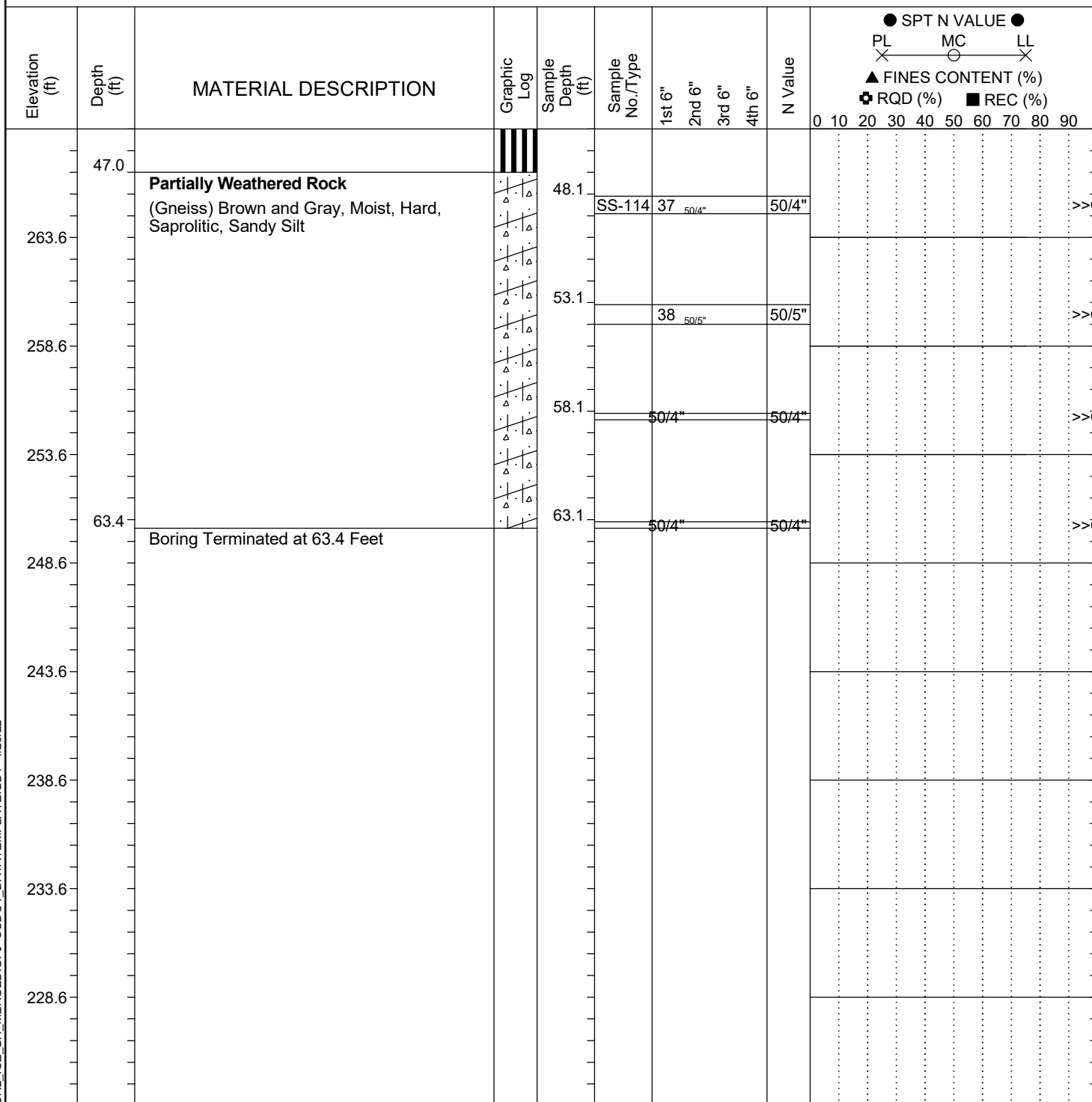


LEGEND

Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-140
Site Description:	Carolina Crossroads Phase 2 - Bridge 42B			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	205+98	Offset:	90 RT
Elev.:	313.6 ft	Latitude:	34.03954703	Longitude:	-81.09269585
Total Depth:	63.4 ft	Soil Depth:	63.4 ft	Date Started:	2/16/2022
Core Depth:	N/A ft	Date Completed:	2/16/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	21.8 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

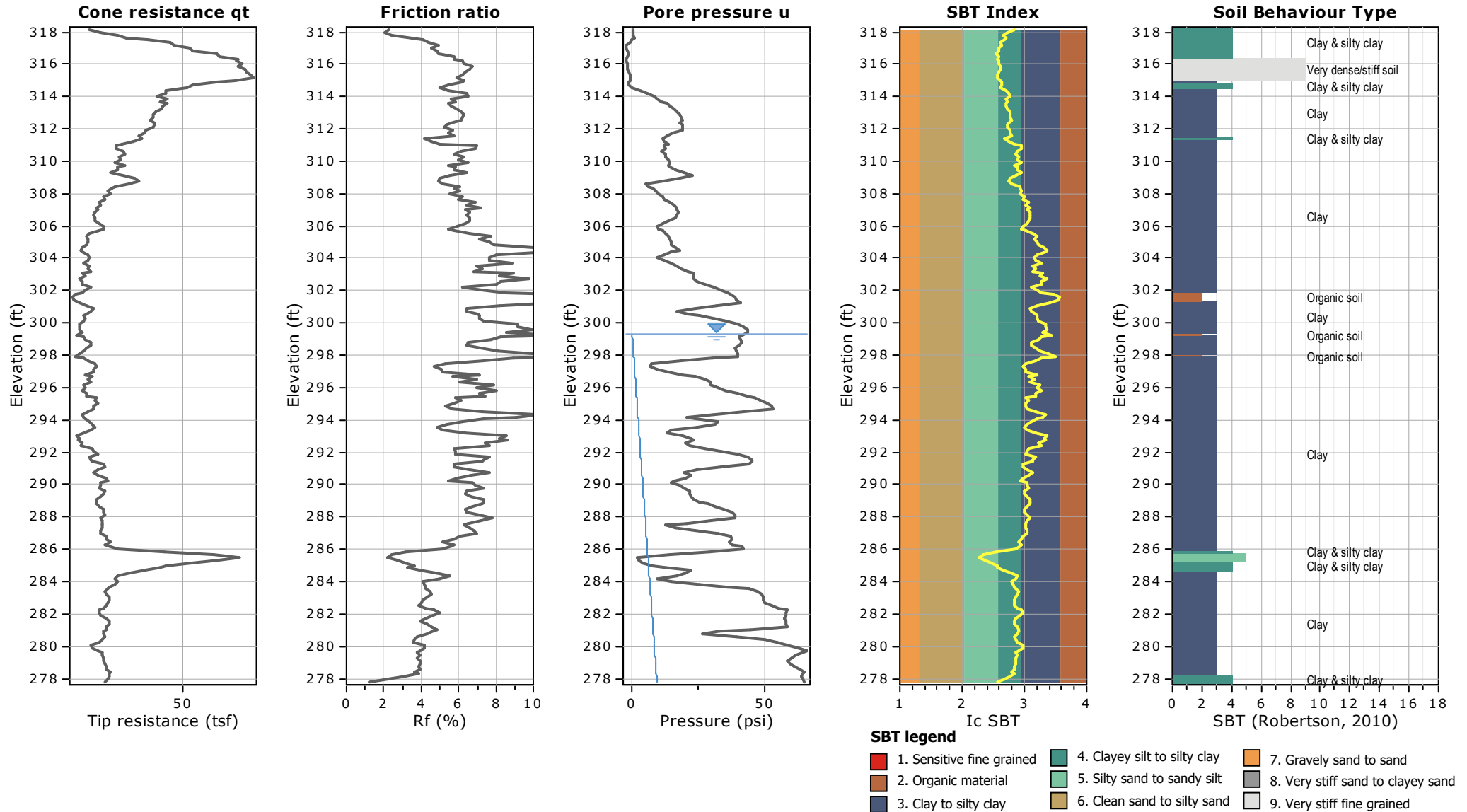
Carolina Crossroads - Phase 2

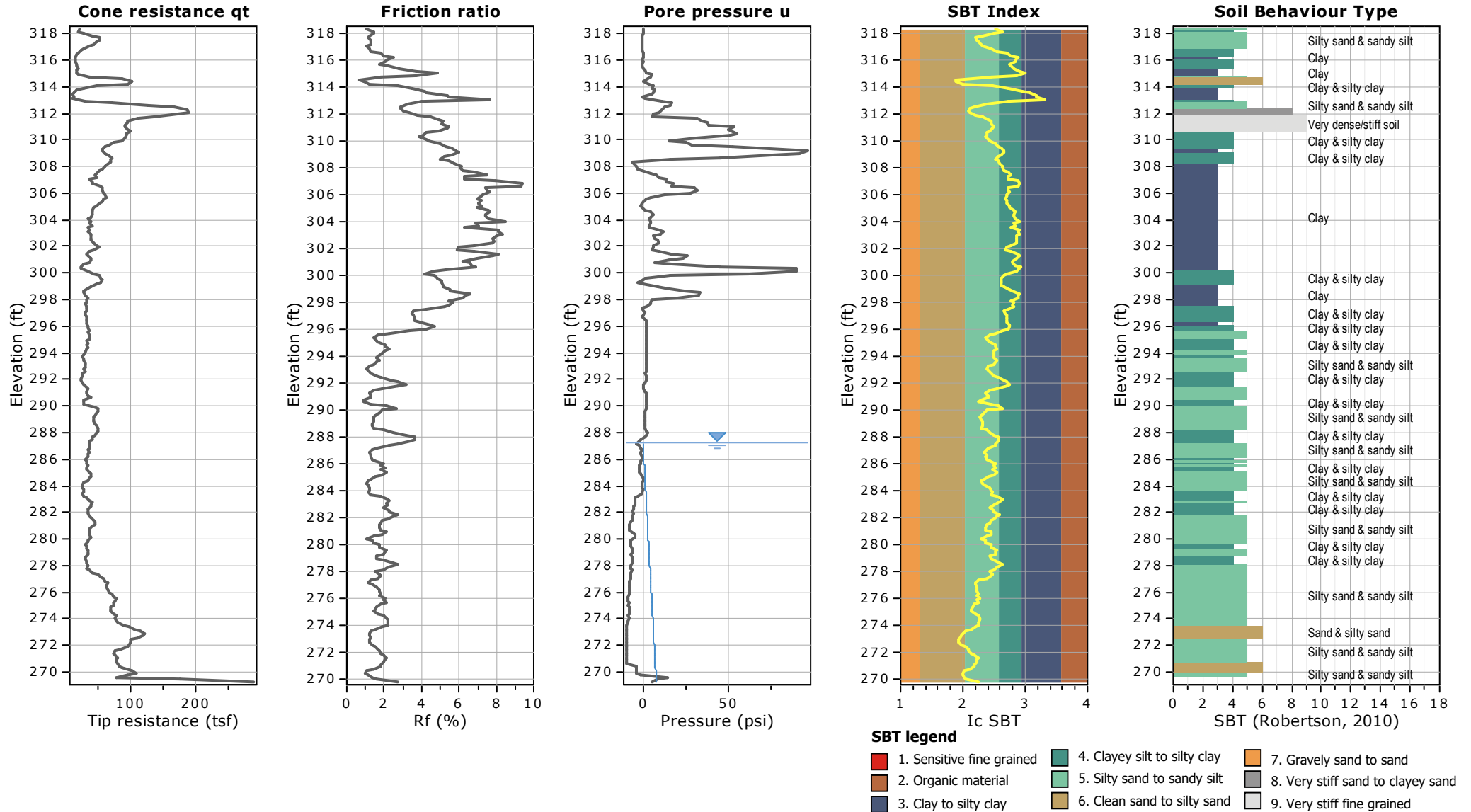
Geotechnical Subsurface Data Report

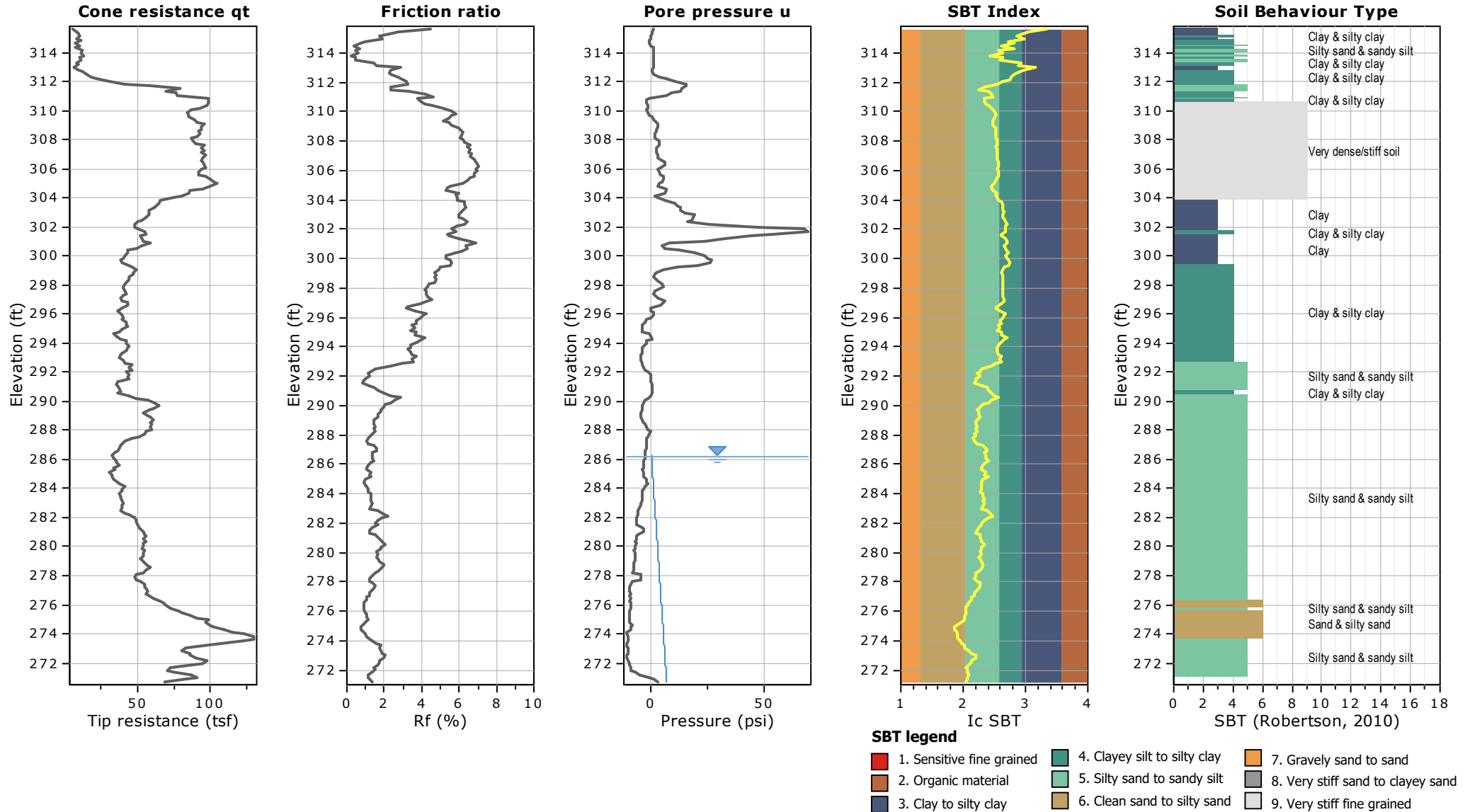
APPENDIX B – BRIDGE 42B

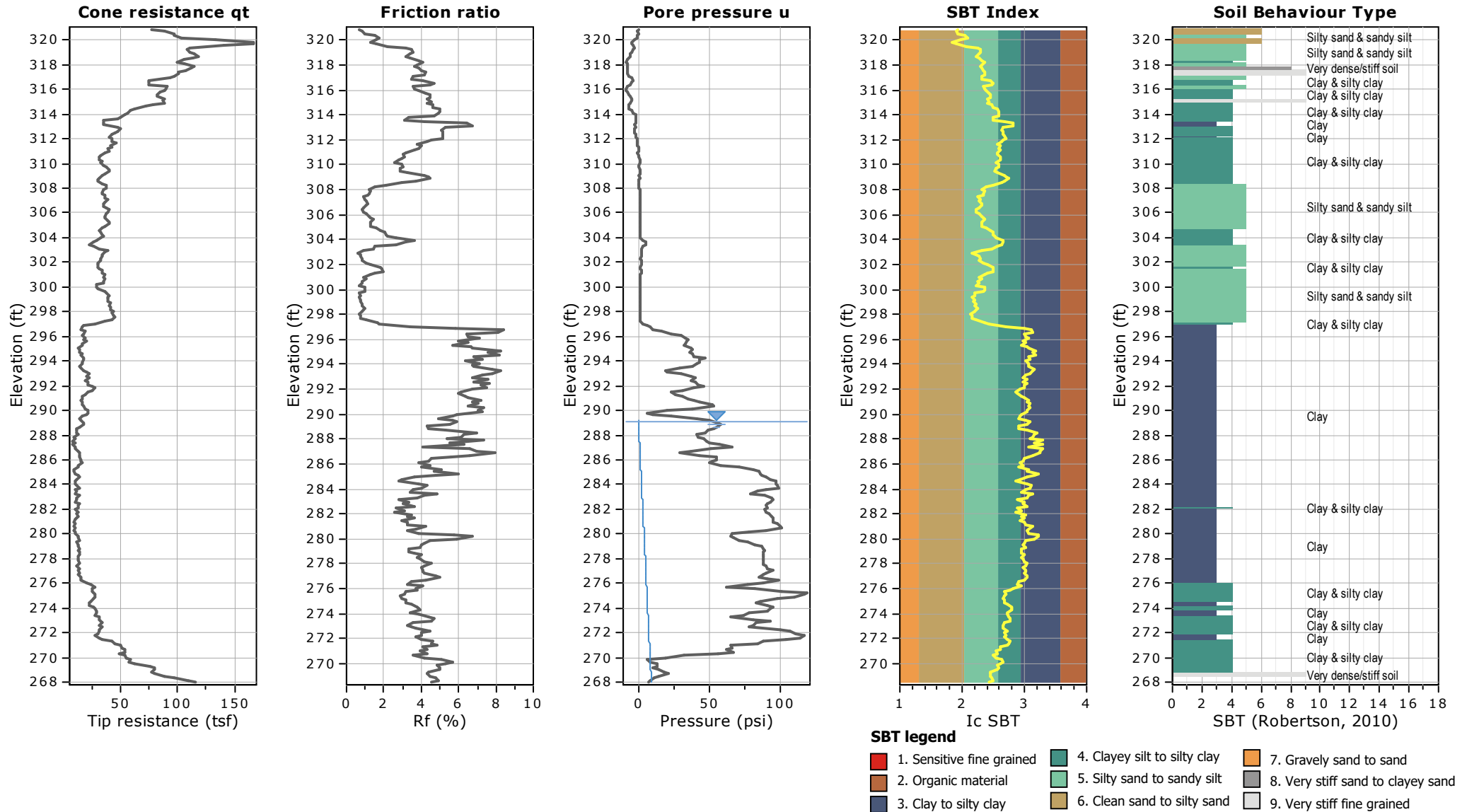
SECTION 2 FIELD TESTING LOGS

SECTION 2B CPT LOGS









Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX B – BRIDGE 42B

SECTION 3 LABORATORY TEST RESULTS

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX B – BRIDGE 42B

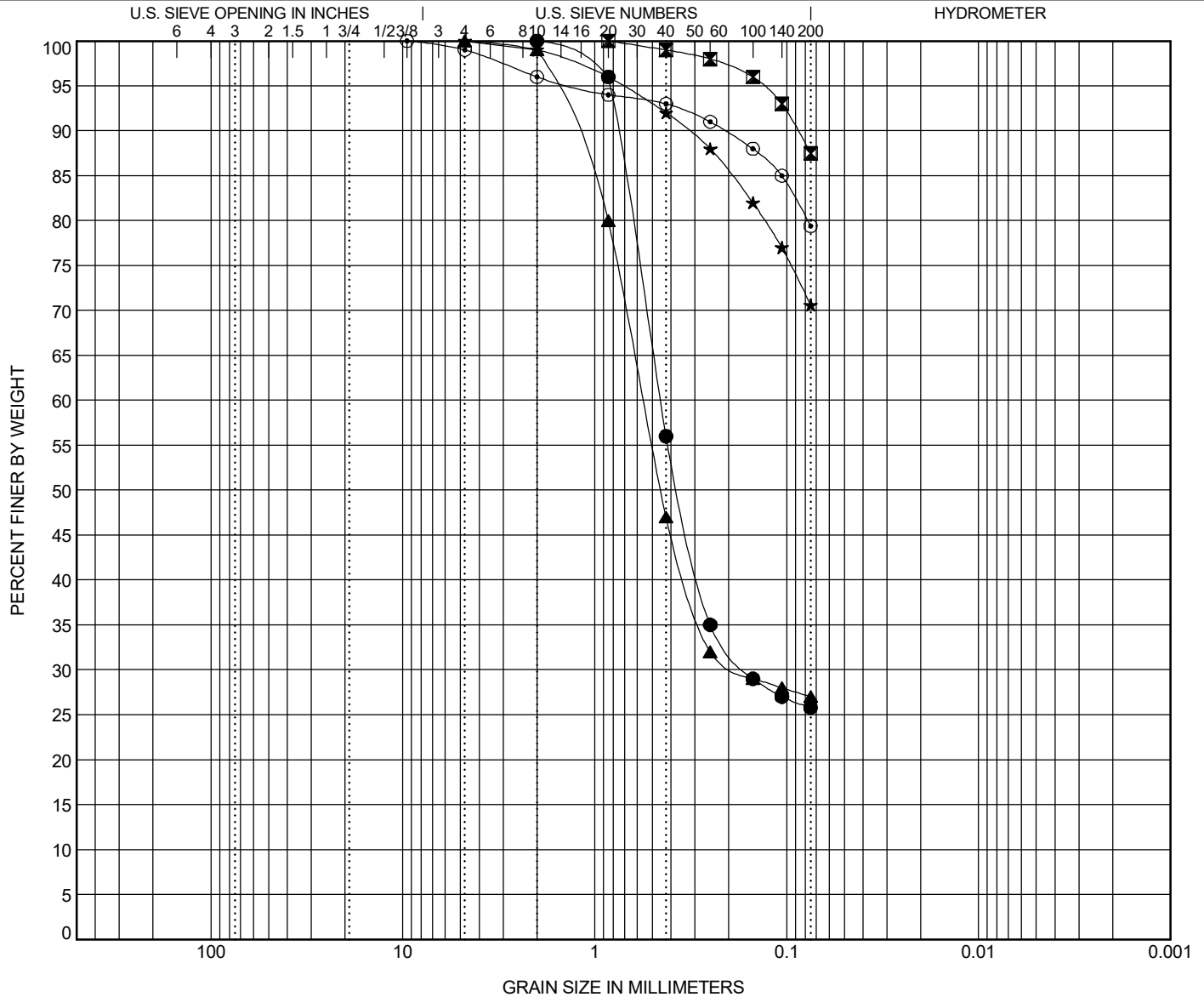
SECTION 3 LABORATORY TEST RESULTS

SECTION 3A SPLIT-SPOON SAMPLES

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



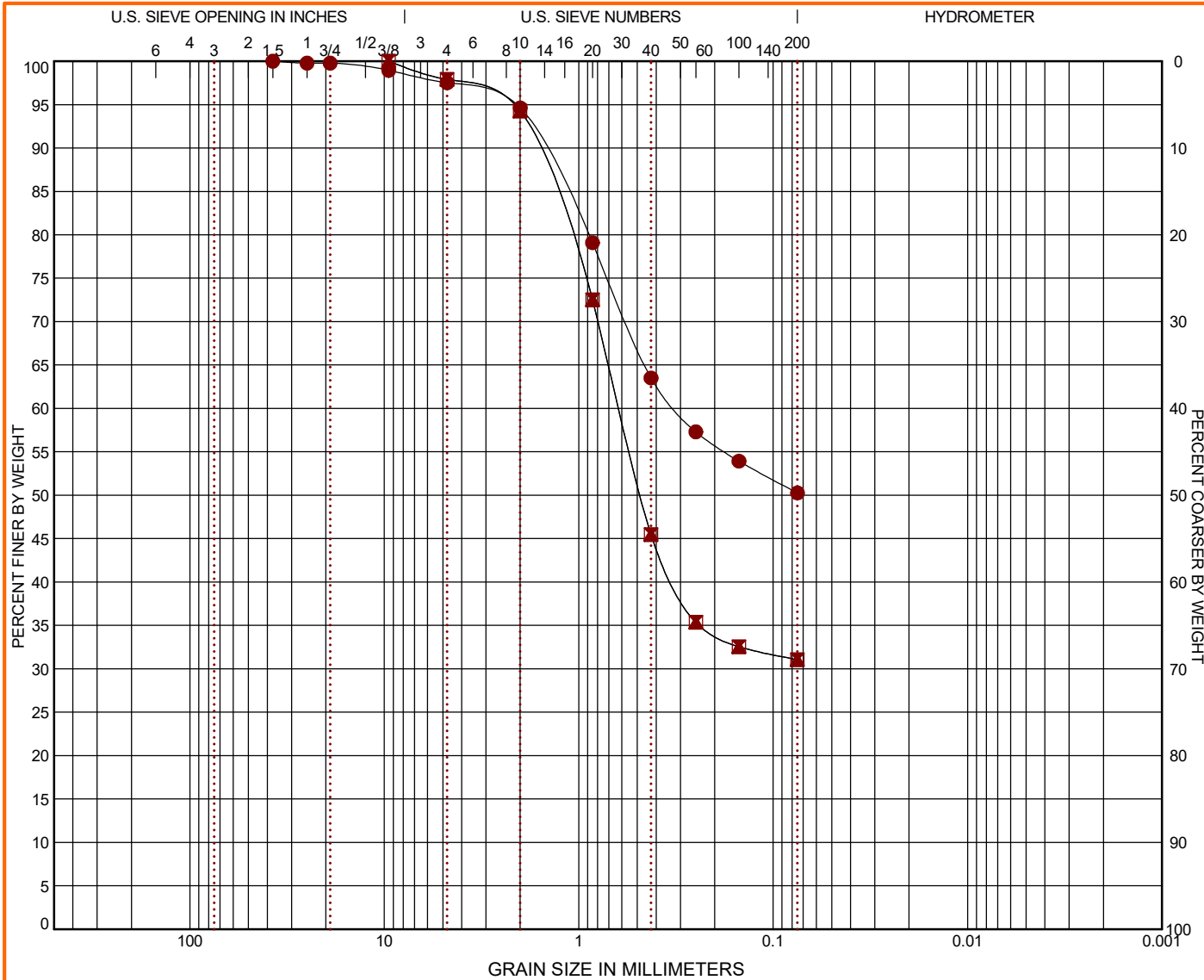
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-134	18.7	SILTY SAND(SM)					29	26	3		
☒ G-134	33.7	ELASTIC SILT(MH)					64	45	19		
▲ G-135	13.7	SILTY SAND(SM)					38	32	6		
★ G-135	23.7	ELASTIC SILT with SAND(MH)					62	58	4		
◎ G-135	38.7	ELASTIC SILT with SAND(MH)					53	43	10		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-134	18.7	2	0.456	0.163		0.0	74.2	25.8			
☒ G-134	33.7	0.85				0.0	12.5	87.5			
▲ G-135	13.7	4.75	0.558	0.178		0.0	73.0	27.0			
★ G-135	23.7	4.75				0.0	29.4	70.6			
◎ G-135	38.7	9.5				1.0	19.6	79.4			

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: AASHTO DESC-1 73225031 CAROLINA CROSSROADS GPJ TERRACON_DATATEMPLATE.GDT 4/20/22



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-024 Bulk	0 - 15	0.0	2.5	47.3		50.3		CH
☒ G-129A	20 - 22	0.0	2.1	66.8		31.1		SC
▲ G-129A	22 - 24	0.0	2.1	66.8		31.1		SC

GRAIN SIZE				SOIL DESCRIPTION			
	●	☒	▲	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.315	0.617	0.617	1 1/2"	100.0	3/8"	100.0
D ₃₀				1"	99.78	#4	97.89
D ₁₀				3/4"	99.78	#10	94.26
				3/8"	98.95	#20	72.5
				#4	97.52	#40	45.47
				#10	94.62	#60	35.36
				#20	79.09	#100	32.54
				#40	63.51	#200	31.06
				#60	57.3		
				#100	53.92		
				#200	50.26		
COEFFICIENTS				REMARKS			
	●	☒	▲				
C _c				●	A-7-6 (15)		
C _u				☒	A-2-7 (4)		
				▲	A-2-7 (4)		

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC



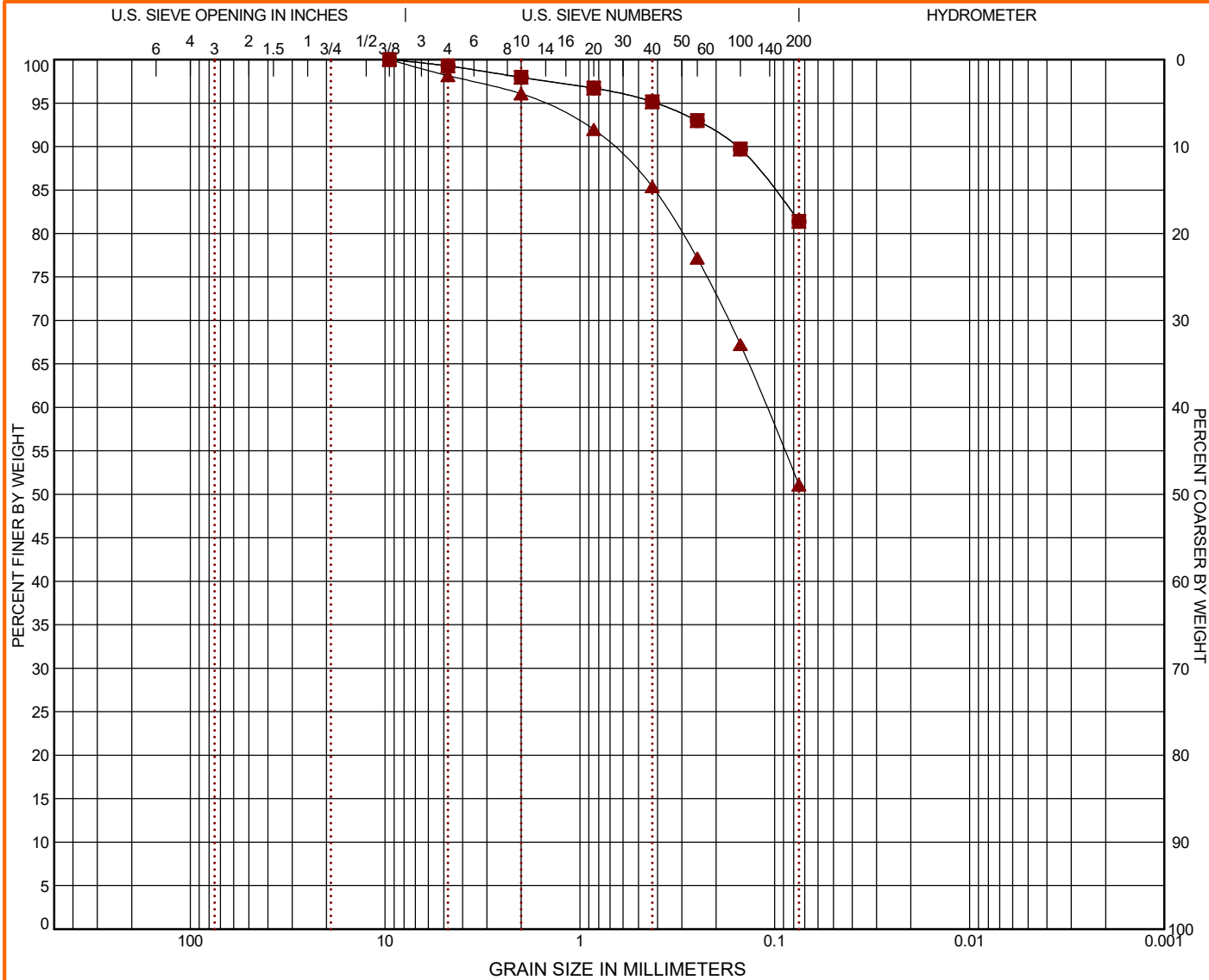
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-138A	22 - 24	0.0	0.7	17.9		81.4		MH
✕ G-138A	24 - 26	0.0	0.7	17.9		81.4		MH
▲ G-069A	6 - 8	0.0	1.9	47.1		51.1		CH

GRAIN SIZE				SOIL DESCRIPTION											
				●		☒		▲		●		☒		▲	
				Sieve	% Finer	Sieve	% Finer	Sieve	% Finer	A-7-5 (17)					
D ₆₀			0.11	3/8"	100.0	3/8"	100.0	3/8"	100.0	☒ A-7-5 (17)					
D ₃₀				#4	99.26	#4	99.26	#4	98.15	▲ A-7-6 (10)					
D ₁₀				#10	97.95	#10	97.95	#10	96.07						
				#20	96.72	#20	96.72	#20	91.97						
				#40	95.15	#40	95.15	#40	85.39						
				#60	92.98	#60	92.98	#60	77.17						
				#100	89.71	#100	89.71	#100	67.22						
				#200	81.39	#200	81.39	#200	51.08						
COEFFICIENTS				REMARKS											
C _c															
C _u															

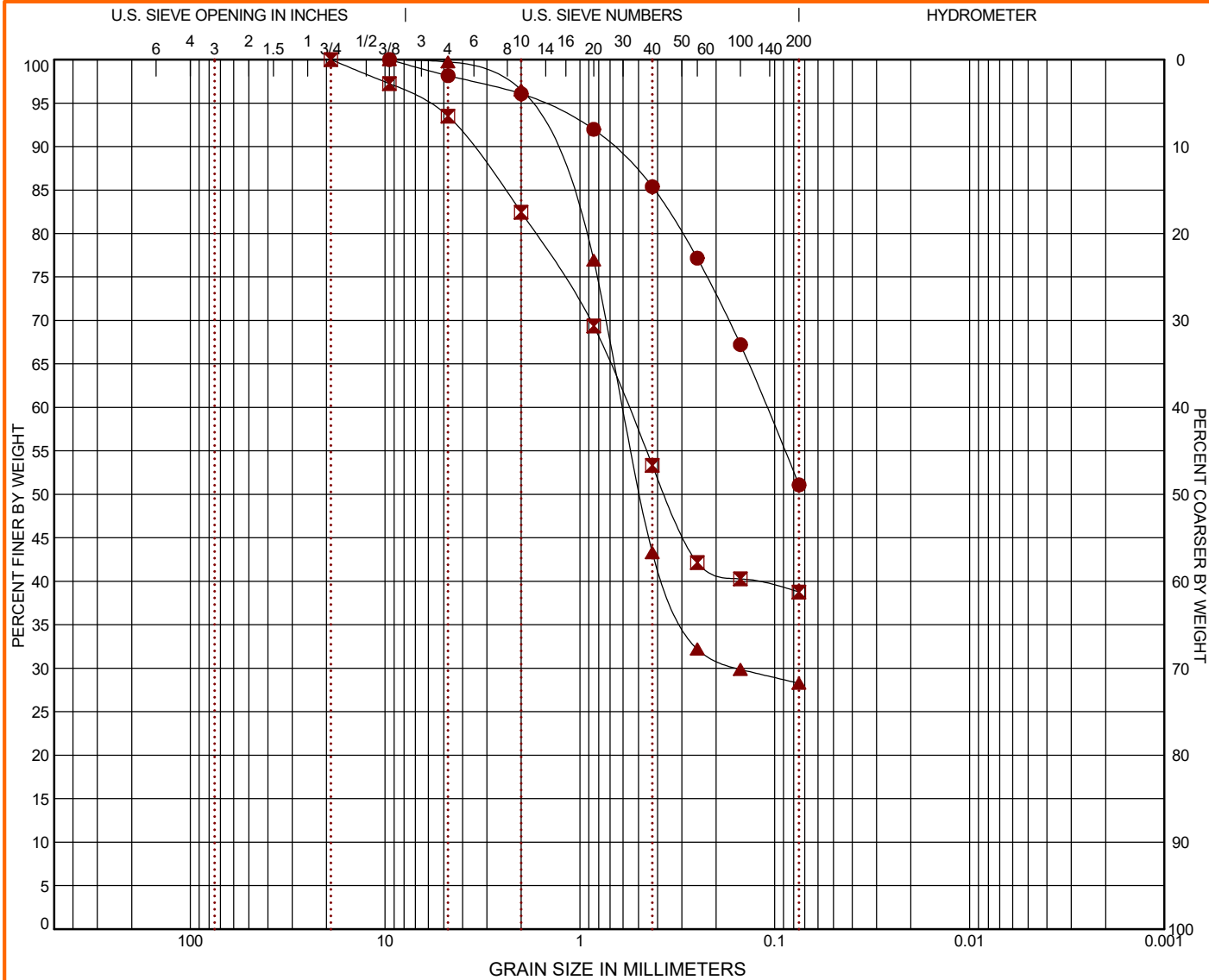
Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
3/8"	100.0	3/8"	100.0	3/8"	100.0
#4	99.26	#4	99.26	#4	98.15
#10	97.95	#10	97.95	#10	96.07
#20	96.72	#20	96.72	#20	91.97
#40	95.15	#40	95.15	#40	85.39
#60	92.98	#60	92.98	#60	77.17
#100	89.71	#100	89.71	#100	67.22
#200	81.39	#200	81.39	#200	51.08

PROJECT: Carolina Crossroads Phase 2	<p>521 Clemson Rd Columbia, SC</p>	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: AASHTO DESC-1 73225031 CAROLINA CROSSROADS GPJ TERRACON DATATEMPLATE.GDT 4/20/22



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-069A	8 - 10	0.0	1.9	47.1		51.1		CH
☒ G-130	14.1 - 15.6	0.0	6.5	54.7		38.8		
▲ G-130	19.1 - 20.6	0.0	0.3	71.5		28.3		SM

GRAIN SIZE				SOIL DESCRIPTION			
	●	☒	▲	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.11	0.567	0.6	3/8"	100.0	3/8"	100.0
D ₃₀			0.154	#4	98.15	#4	99.73
D ₁₀				#10	96.07	#10	96.51
				#20	91.97	#20	82.44
				#40	85.39	#40	69.36
				#60	77.17	#60	53.34
				#100	67.22	#100	42.17
				#200	51.08	#200	38.78
COEFFICIENTS							
	●	☒	▲				
C _c							
C _u							
				REMARKS			
				● A-7-6 (10)			
				☒			
				▲ A-2-7 (1)			
				●			
				☒			
				▲			

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

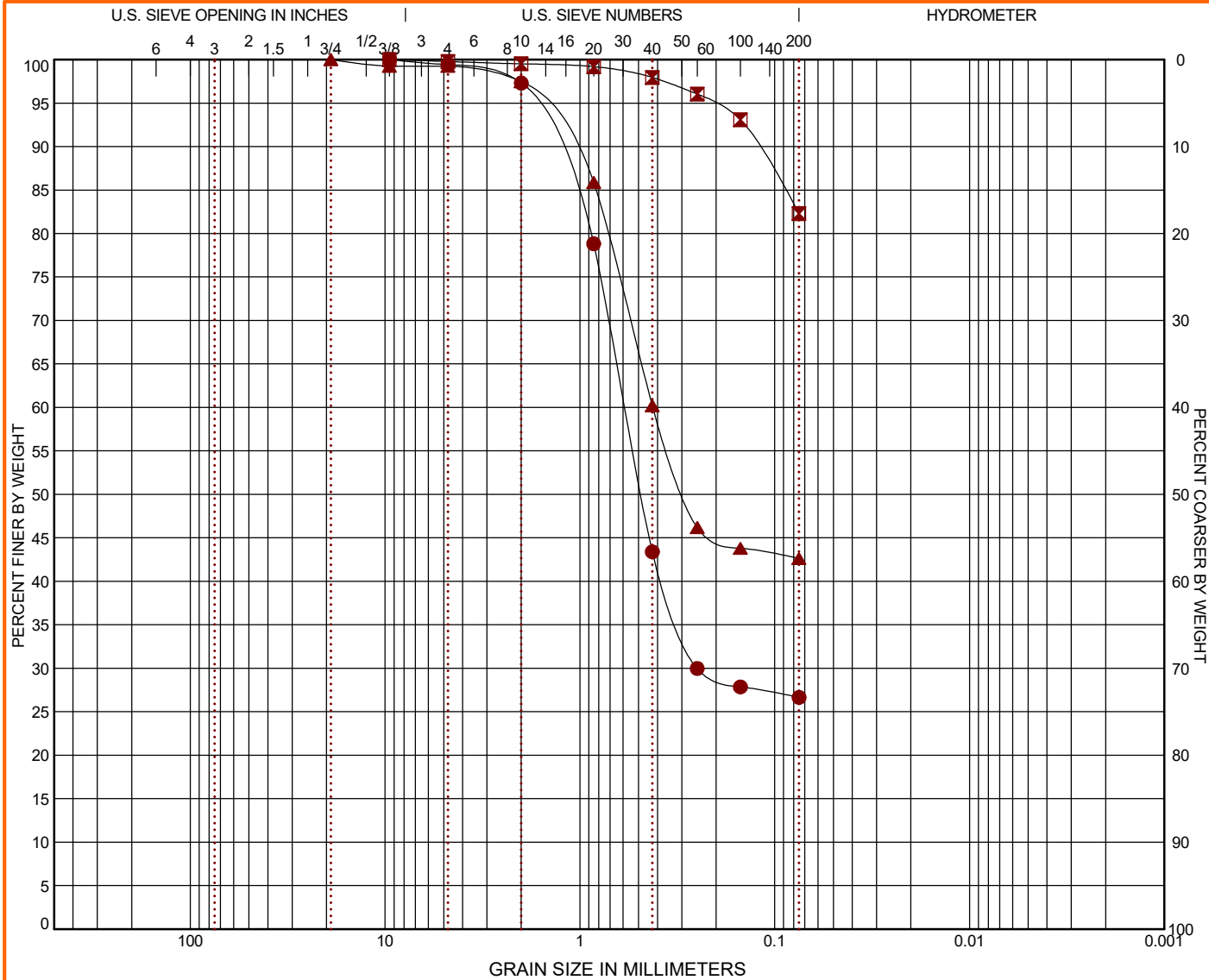
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Charleston, SC

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ASTM D422 / ASTM C136

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-130	29.1 - 30.6	0.0	0.6	72.8		26.6		SM
☒ G-130	44.1 - 45.6	0.0	0.2	17.5		82.3		CL
▲ G-131	8 - 10	0.0	0.8	56.6		42.6		SC

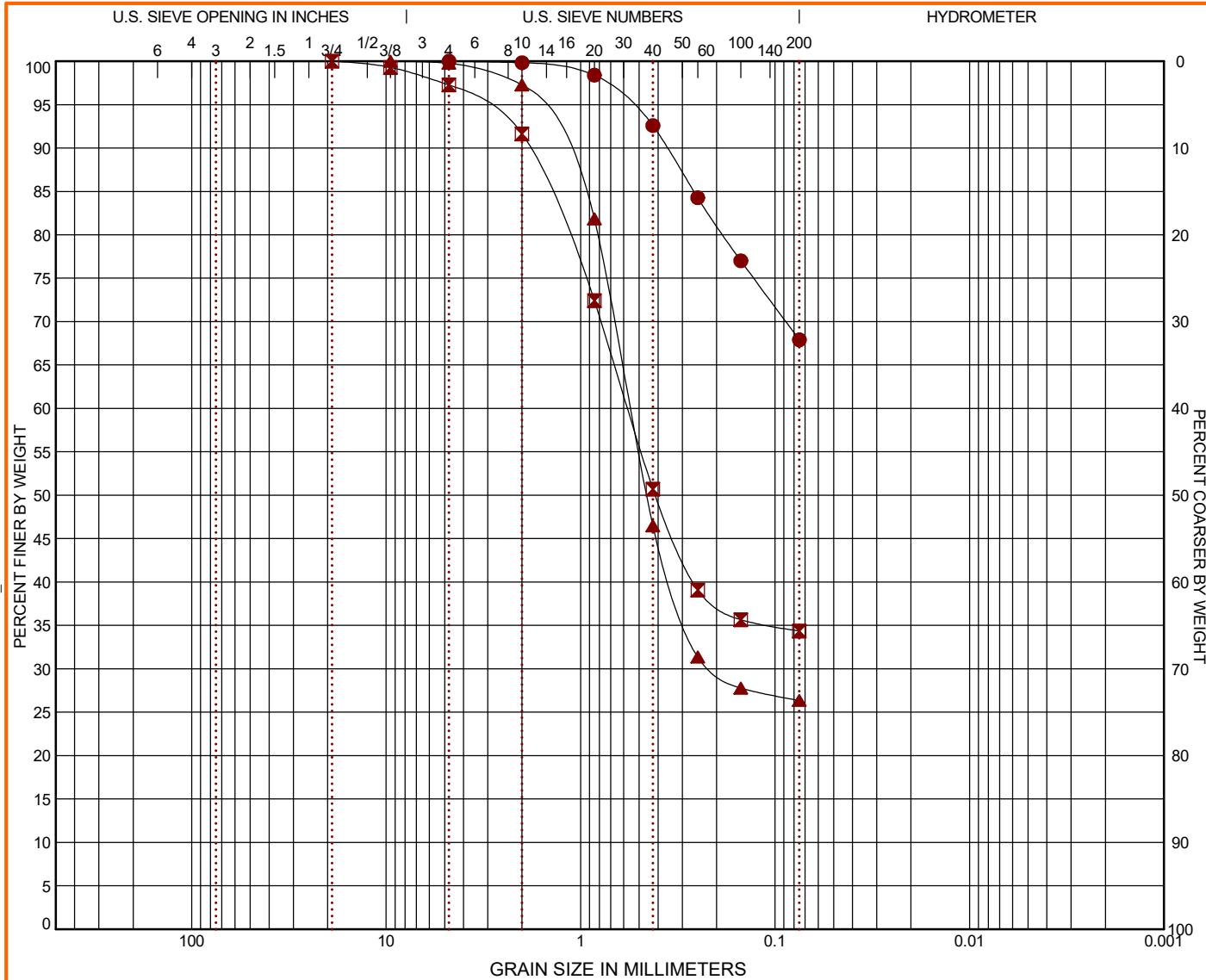
GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.588		0.422	3/8"	100.0	3/8"	100.0	3/4"	100.0
D ₃₀	0.25			#4	99.42	#4	99.78	3/8"	99.24
D ₁₀				#10	97.3	#10	99.51	#4	99.24
				#20	78.82	#20	99.19	#10	97.47
				#40	43.39	#40	97.95	#20	85.88
				#60	29.97	#60	96.04	#40	60.19
				#100	27.85	#100	93.07	#60	46.2
				#200	26.65	#200	82.29	#100	43.79
								#200	42.62
COEFFICIENTS				REMARKS					
	●	☒	▲						
C _c									
C _u									

PROJECT: Carolina Crossroads Phase 2	<p>521 Clemson Rd Columbia, SC</p>	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

GRAIN SIZE DISTRIBUTION

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-131	74.2 - 75.7	0.0	0.0	32.1		67.9		CL
☒ G-128	14.2 - 15.7	0.0	2.7	62.9		34.4		
▲ G-128	19.2 - 20.7	0.0	0.2	73.4		26.4		

GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀		0.572	0.554	#4	100.0	3/4"	100.0	3/8"	100.0
D ₃₀			0.206	#10	99.83	3/8"	99.28	#4	99.76
D ₁₀				#20	98.39	#4	97.26	#10	97.26
				#40	92.58	#10	91.63	#20	81.85
				#60	84.27	#20	72.42	#40	46.47
				#100	77.01	#40	50.71	#60	31.37
				#200	67.9	#60	39.09	#100	27.78
						#100	35.66	#200	26.37
						#200	34.36		
COEFFICIENTS				REMARKS					
C _c	●	☒	▲	●	A-6 (9)				
C _u				☒					
				▲					

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

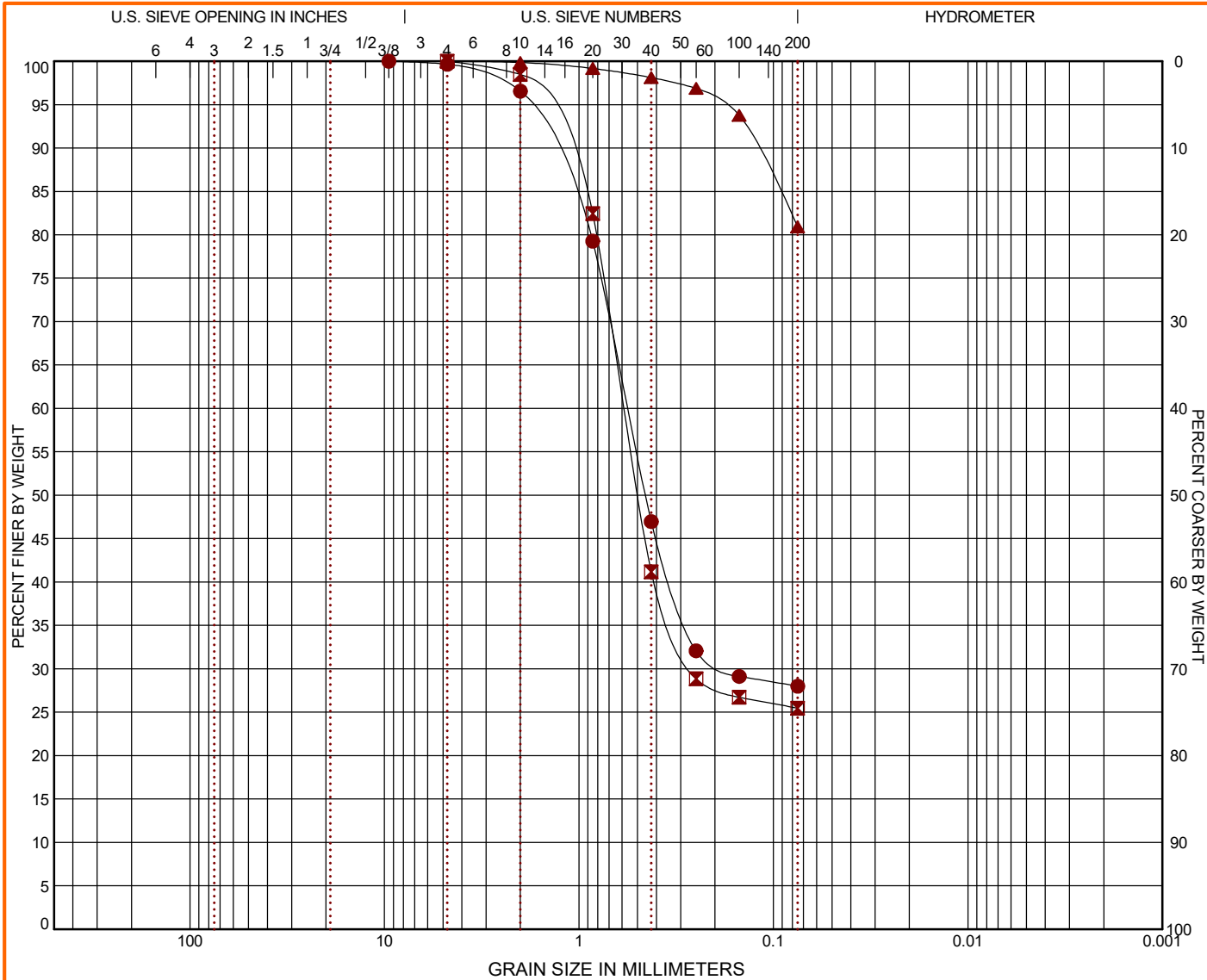
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-128	24.2 - 25.7	0.0	0.4	71.6		28.0		
☒ G-128	29.2 - 30.7	0.0	0.0	74.5		25.5		SM
▲ G-128	44.2 - 45.7	0.0	0.0	19.1		80.9		ML

GRAIN SIZE			
	●	☒	▲
D ₆₀	0.562	0.583	
D ₃₀	0.175	0.263	
D ₁₀			

Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
3/8"	100.0	#4	100.0	#60	96.87
#4	99.64	#10	98.47	#100	93.76
#10	96.54	#20	82.45	#200	80.91
#20	79.27	#40	41.16	#4	100.0
#40	46.96	#60	28.84	#10	99.85
#60	32.07	#100	26.72	#20	99.17
#100	29.12	#200	25.47	#40	98.11
#200	28.0				

SOIL DESCRIPTION	
●	
☒	A-2-6 (0)
▲	A-7-6 (15)

COEFFICIENTS			
	●	☒	▲
C _c			
C _u			

REMARKS	
●	
☒	
▲	

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

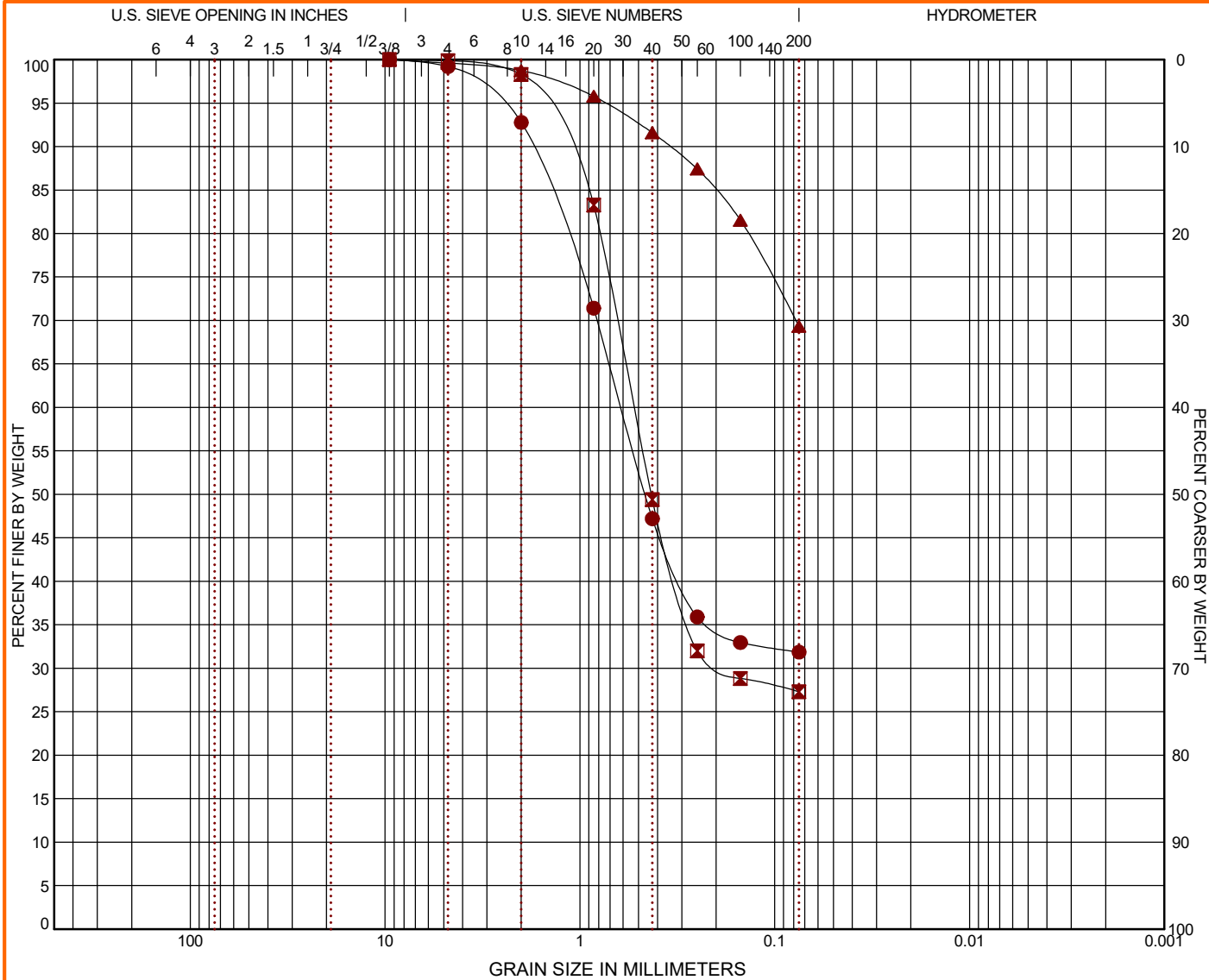
ASTM D422 / ASTM C136

PROJECT: Carolina Crossroads Phase 2	 521 Clemson Rd Columbia, SC	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: AASHTO DESC-1 73225031 CAROLINA CROSSROADS GPJ TERRACON DATATEMPLATE.GDT 4/20/22



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-129	19.2 - 20.7	0.0	0.8	67.3		31.9		SC
☒ G-129	29.2 - 30.7	0.0	0.1	72.5		27.3		SM
▲ G-129	44.2 - 45.7	0.0	0.4	30.3		69.3		CL

GRAIN SIZE				SOIL DESCRIPTION			
	●	☒	▲	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.613	0.528		3/8"	100.0	3/8"	100.0
D ₃₀		0.181		#4	99.2	#4	99.86
D ₁₀				#10	92.77	#10	98.29
				#20	71.41	#20	83.27
				#40	47.2	#40	49.39
				#60	35.9	#60	32.0
				#100	32.96	#100	28.84
				#200	31.86	#200	27.31
COEFFICIENTS				Sieve	% Finer	Sieve	% Finer
C _c	●	☒	▲	3/8"	100.0	3/8"	100.0
C _u				#4	99.2	#4	99.86
				#10	92.77	#10	98.29
				#20	71.41	#20	83.27
				#40	47.2	#40	49.39
				#60	35.9	#60	32.0
				#100	32.96	#100	28.84
				#200	31.86	#200	27.31
REMARKS				● A-2-7 (2)			
				☒ A-2-4 (0)			
				▲ A-7-6 (13)			

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC



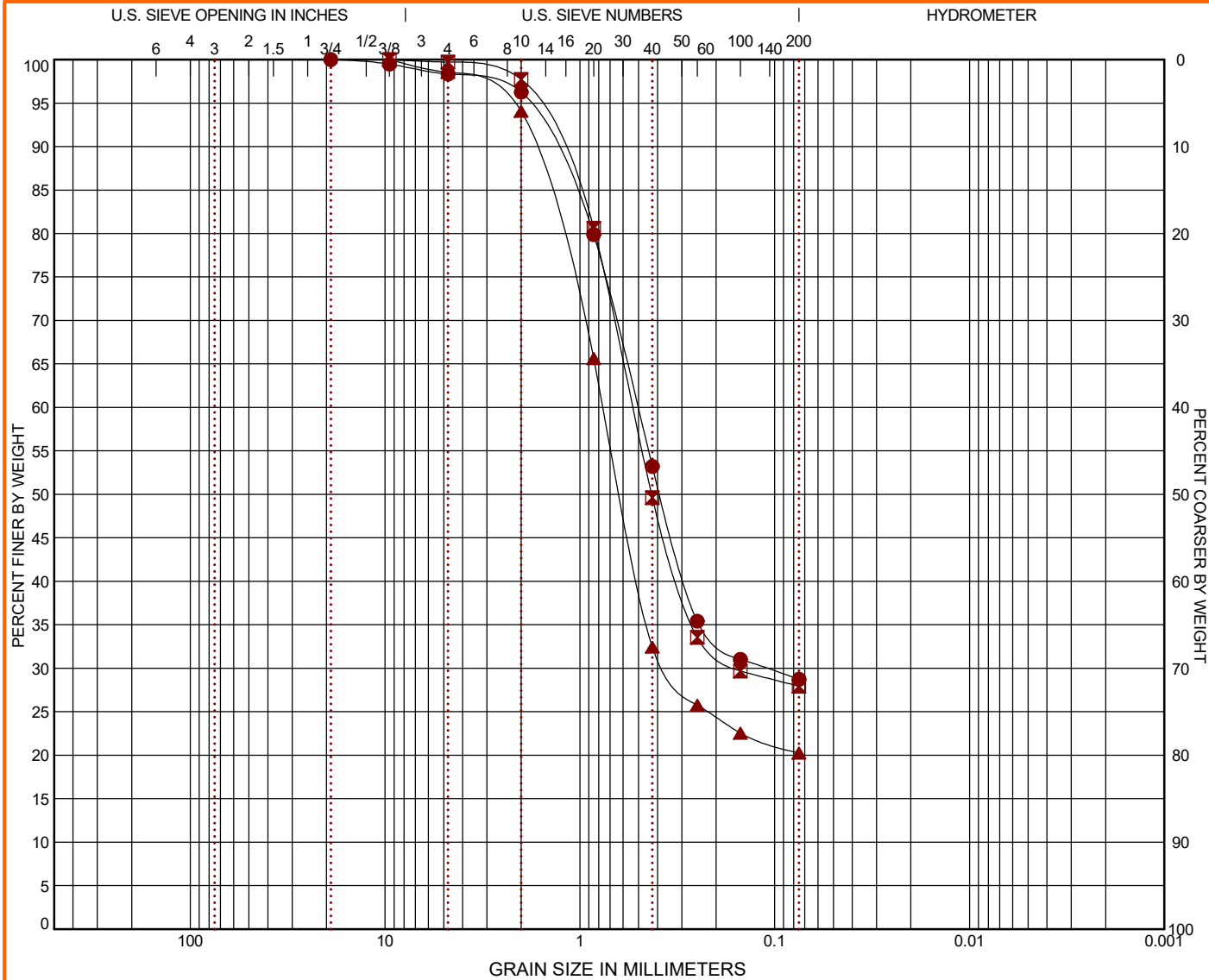
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: AASHTO DESC-1 73225031 CAROLINA CROSSROADS.GPJ TERRACON_DATATEMPLATE.GDT 4/20/22



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-140	4 - 6	0.0	1.7	69.6		28.7		SC
☒ G-140	18.1 - 19.6	0.0	0.3	71.8		27.9		SM
▲ G-140	23.1 - 24.6	0.0	1.5	78.3		20.3		SC

GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.507	0.536	0.756	3/4"	100.0	3/8"	100.0	3/8"	100.0
D ₃₀	0.11	0.156	0.35	3/8"	99.47	#4	99.72	#4	98.55
D ₁₀				#4	98.34	#10	97.71	#10	94.05
				#10	96.26	#20	80.61	#20	65.61
				#20	79.87	#40	49.62	#40	32.43
				#40	53.21	#60	33.55	#60	25.76
				#60	35.41	#100	29.7	#100	22.54
				#100	31.02	#200	27.94	#200	20.26
				#200	28.73				
COEFFICIENTS				REMARKS					
	●	☒	▲						
C _c									
C _u									
				●	A-2-6 (0)				
				☒	A-2-4 (0)				
				▲	A-2-6 (0)				

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

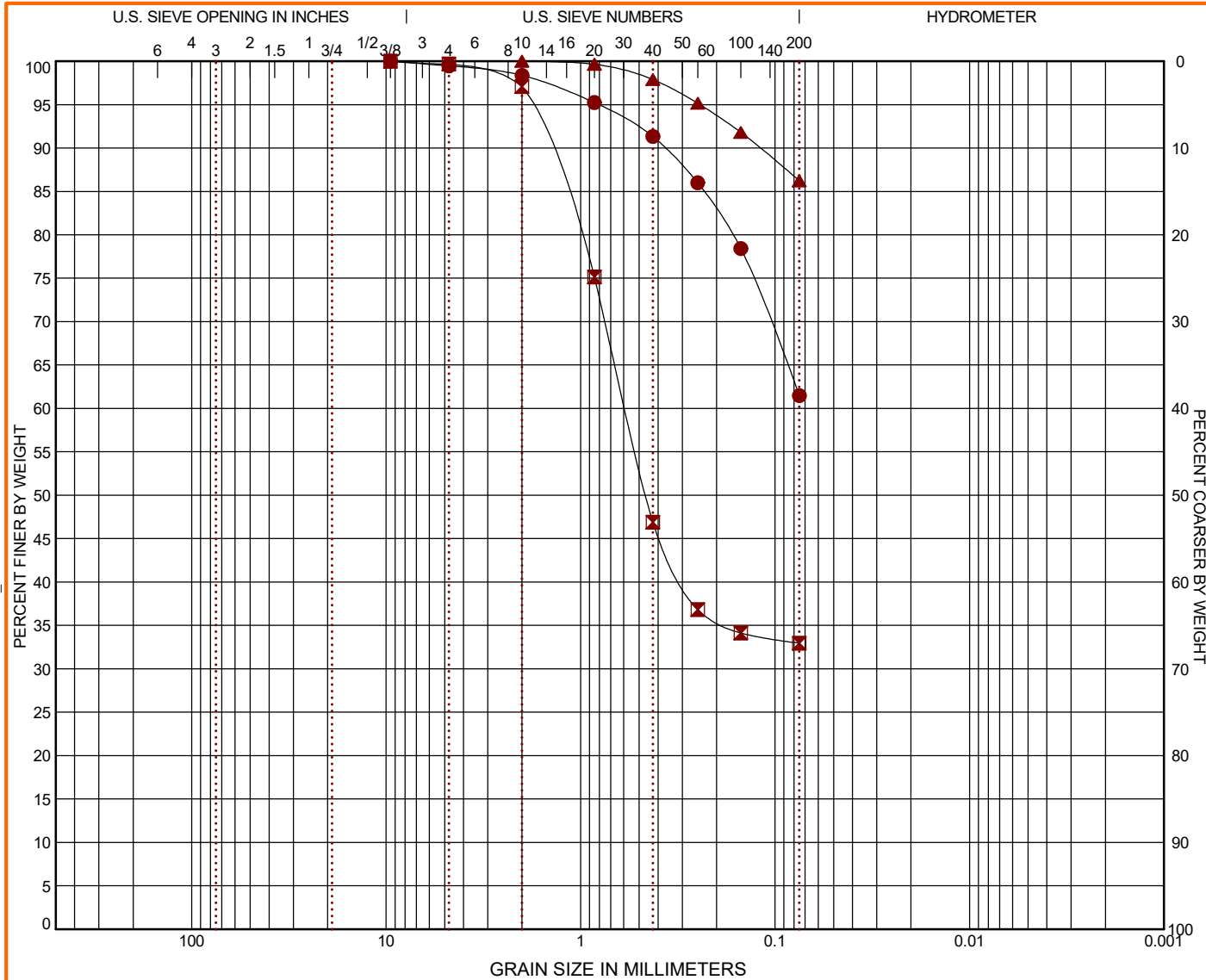
PROJECT NUMBER: 73225031

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GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-140	38.1 - 39.6	0.0	0.5	38.0		61.5		MH
☒ G-033	6 - 8	0.0	0.3	66.7		33.0		SM
▲ G-033	18.6 - 20.1	0.0	0.0	13.8		86.2		ML

GRAIN SIZE				SOIL DESCRIPTION			
	●	☒	▲	Sieve	% Finer	Sieve	% Finer
D ₆₀		0.586		3/8"	100.0	3/8"	100.0
D ₃₀				#4	99.46	#4	99.68
D ₁₀				#10	98.36	#10	97.07
				#20	95.24	#20	75.13
				#40	91.33	#40	46.89
				#60	86.0	#60	36.84
				#100	78.42	#100	34.13
				#200	61.47	#200	32.96
COEFFICIENTS				REMARKS			
	●	☒	▲				
C _c							
C _u							

PROJECT: Carolina Crossroads Phase 2	<p>521 Clemson Rd Columbia, SC</p>	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

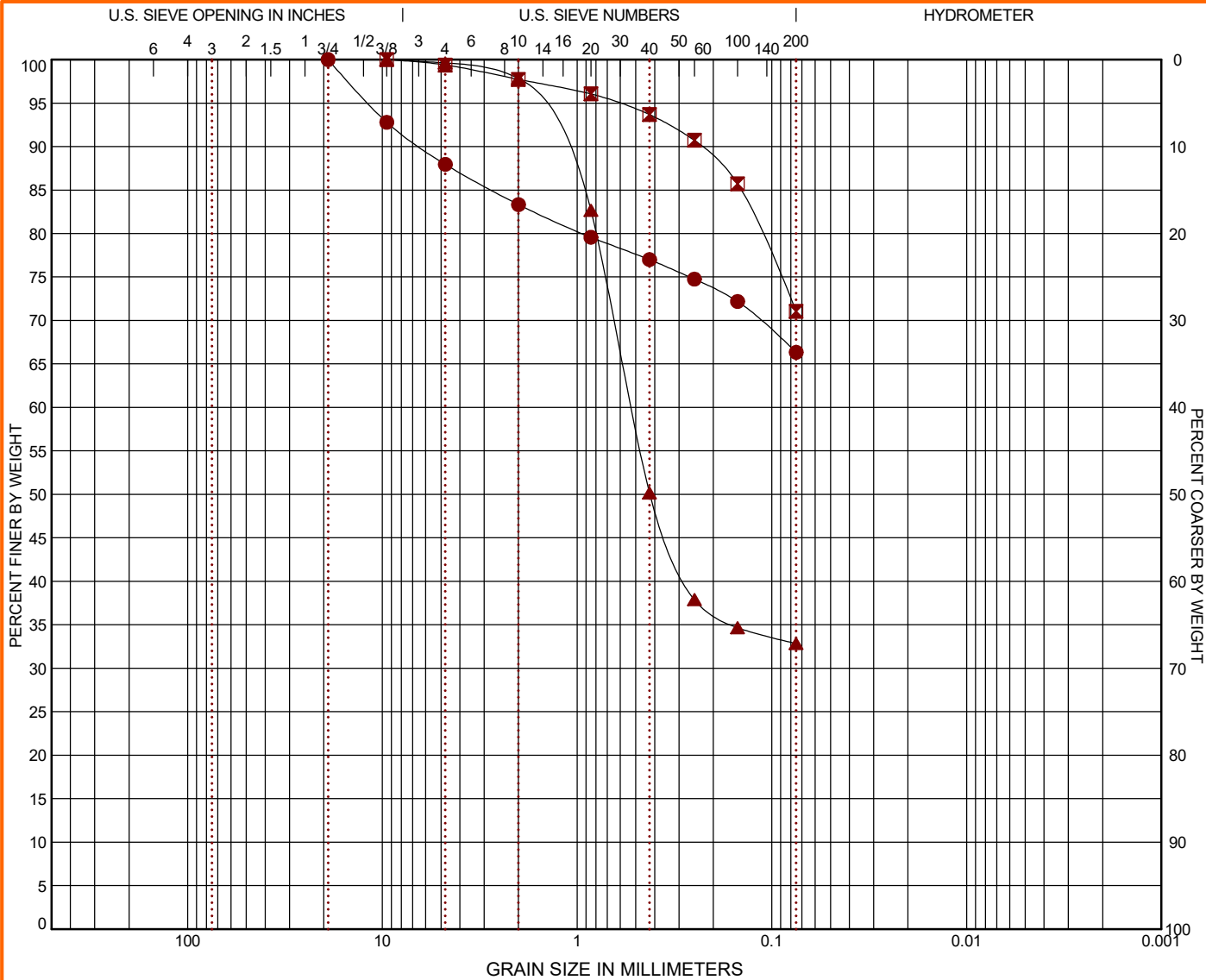
ASTM D422 / ASTM C136

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: AASHTO DESC-1 73225031 CAROLINA CROSSROAD GPJ TERRACON DATATEMPLATE.GDT 4/20/22

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-138	34.2 - 35.7	0.0	12.1	21.6		66.3		ML
☒ G-138	49.2 - 50.7	0.0	0.6	28.3		71.1		ML
▲ G-136	8 - 10	0.0	0.4	66.8		32.8		SC

GRAIN SIZE				SOIL DESCRIPTION			
	●	☒	▲	Sieve	% Finer	Sieve	% Finer
D ₆₀			0.524	3/4"	100.0	3/8"	100.0
D ₃₀				3/8"	92.79	#4	99.38
D ₁₀				#4	87.95	#10	97.72
				#10	83.32	#20	96.05
				#20	79.57	#40	93.67
				#40	76.99	#60	90.72
				#60	74.75	#100	85.71
				#100	72.18	#200	71.06
				#200	66.34		
COEFFICIENTS				REMARKS			
	●	☒	▲	●	A-4 (0)		
C _c				☒	A-4 (0)		
C _u				▲	A-2-7 (2)		

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC



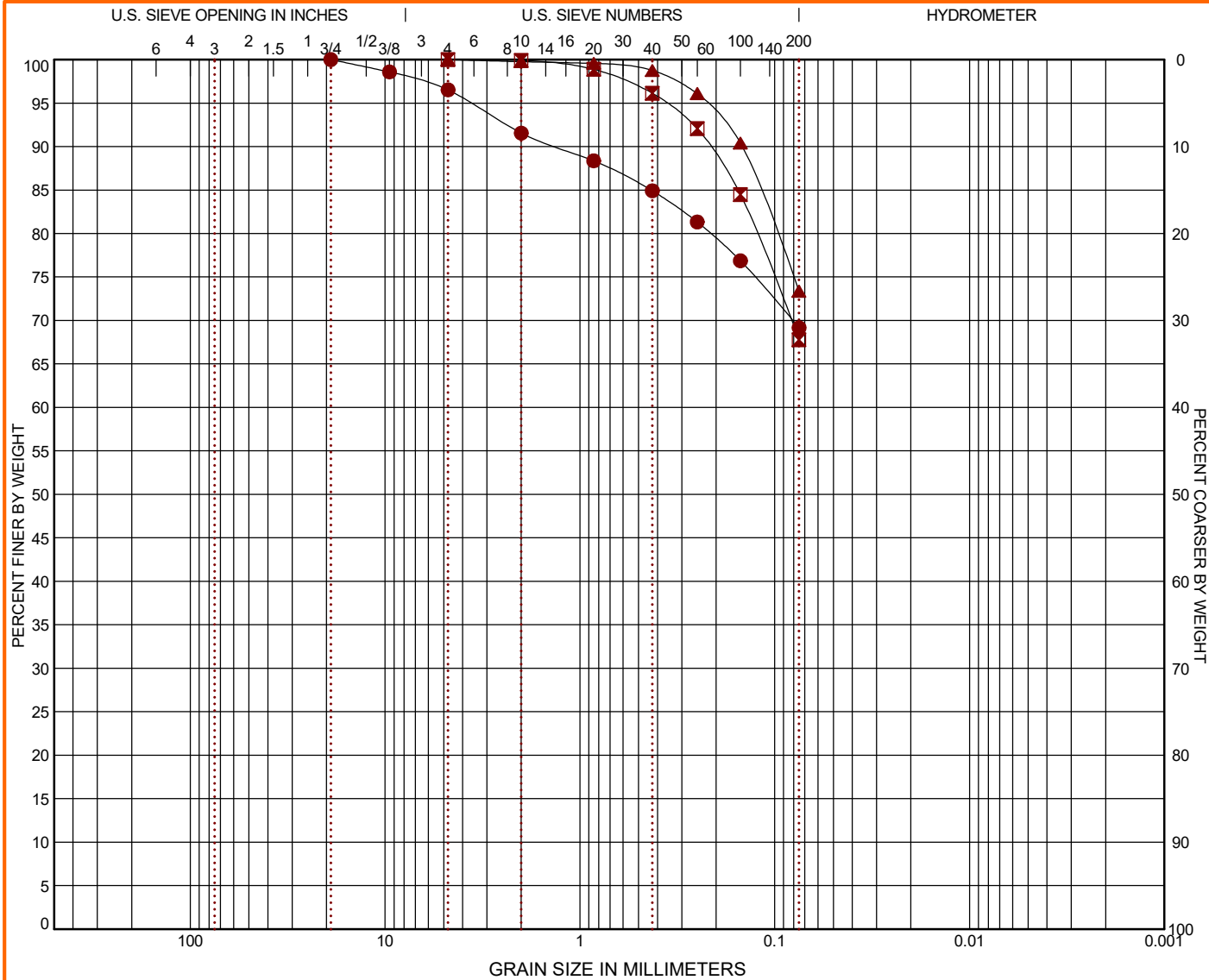
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: AASHTO DESC-1 73225031 CAROLINA CROSSROADS.GPJ TERRACON_DATATEMPLATE.GDT 4/20/22



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-136	23.4 - 24.9	0.0	3.5	27.4		69.2		ML
☒ G-136	38.4 - 39.9	0.0	0.0	32.2		67.8		MH
▲ G-136	48.4 - 49.9	0.0	0.0	26.6		73.4		MH

GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀				3/4"	100.0	#10	99.9	#4	100.0
D ₃₀				3/8"	98.58	#20	98.88	#10	99.76
D ₁₀				#4	96.51	#40	96.14	#20	99.57
				#10	91.54	#60	92.06	#40	98.75
				#20	88.35	#100	84.49	#60	96.09
				#40	84.91	#200	67.79	#100	90.39
				#60	81.33	#4	100.0	#200	73.37
				#100	76.86				
				#200	69.16				
COEFFICIENTS				REMARKS					
	●	☒	▲						
C _c									
C _u									
				●	A-4 (0)				
				☒	A-7-5 (17)				
				▲	A-7-5 (15)				

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

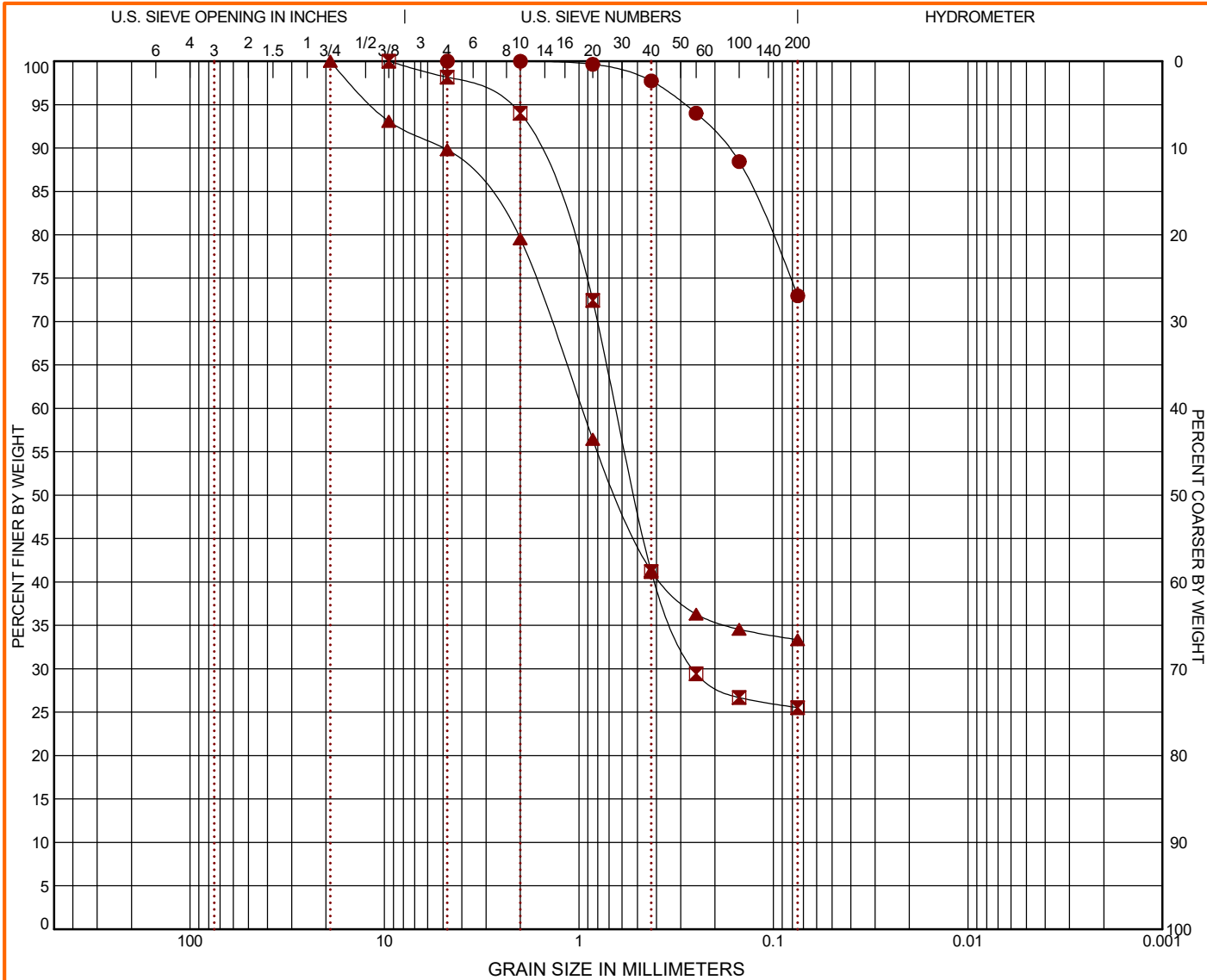
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-125	54.6 - 56.1	0.0	0.0	27.0		73.0		ML
☒ G-127	6 - 8	0.0	1.8	72.6		25.5		SC
▲ G-127	14.6 - 16.1	0.0	10.2	56.4		33.3		SC

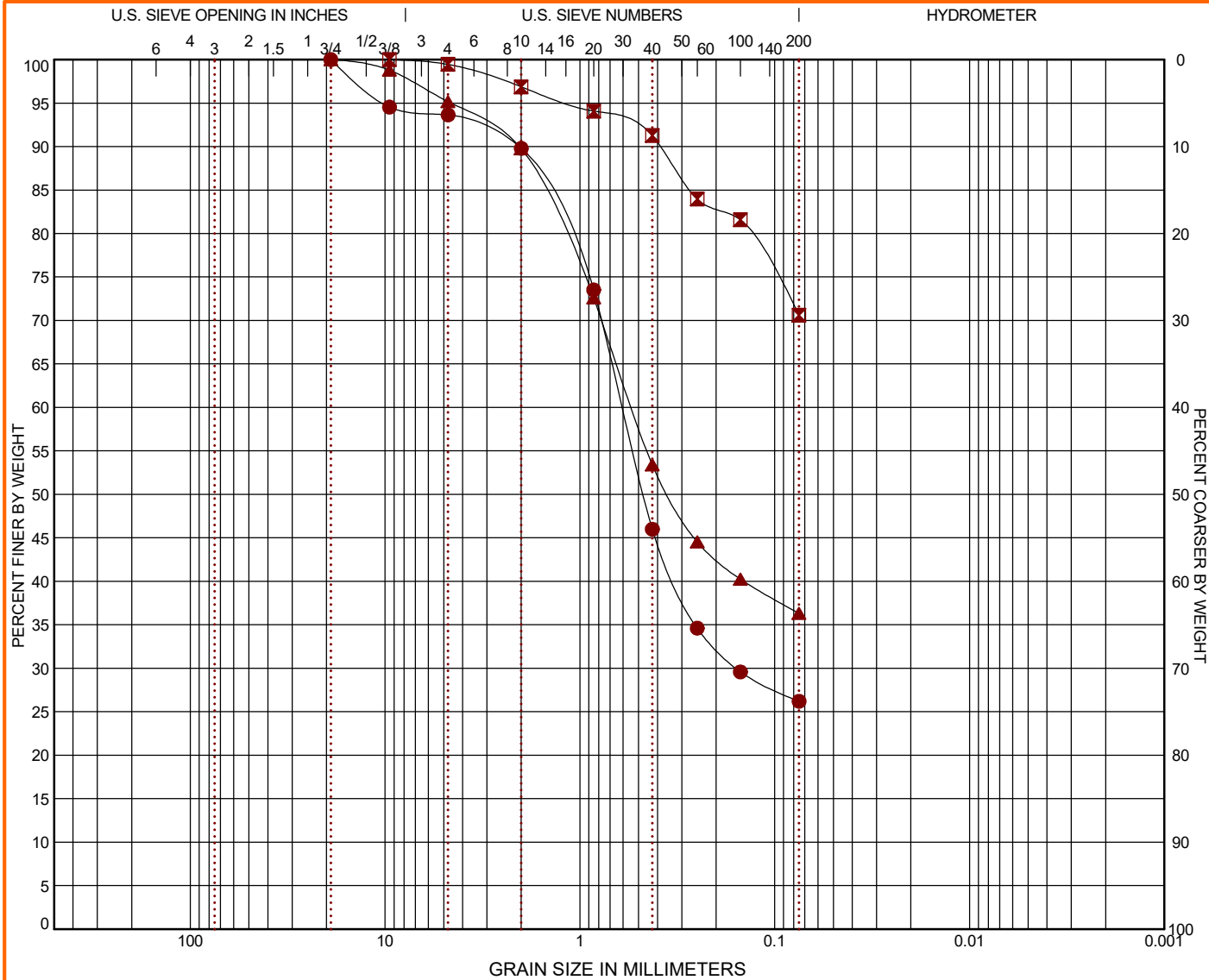
GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀		0.645	0.97	#4	100.0	3/8"	100.0	3/4"	100.0
D ₃₀		0.256		#10	99.99	#4	98.16	3/8"	93.07
D ₁₀				#20	99.64	#10	94.0	#4	89.79
				#40	97.73	#20	72.45	#10	79.53
				#60	94.01	#40	41.2	#20	56.44
				#100	88.44	#60	29.44	#40	41.26
				#200	72.97	#100	26.68	#60	36.31
						#200	25.53	#100	34.55
								#200	33.34
COEFFICIENTS				REMARKS					
	●	☒	▲						
C _c									
C _u									

PROJECT: Carolina Crossroads Phase 2	<p>521 Clemson Rd Columbia, SC</p>	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-127	24.6 - 26.1	0.0	6.4	67.4		26.2		SC
☒ G-127	39.6 - 41.1	0.0	0.6	28.8		70.6		MH
▲ G-126	4 - 6	0.0	4.8	58.8		36.3		SC

GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.605		0.539	3/4"	100.0	3/8"	100.0	3/4"	100.0
D ₃₀	0.157			3/8"	94.54	#4	99.45	3/8"	98.78
D ₁₀				#4	93.64	#10	96.87	#4	95.16
				#10	89.78	#20	94.07	#10	89.74
				#20	73.51	#40	91.26	#20	72.6
				#40	45.99	#60	83.97	#40	53.4
				#60	34.61	#100	81.58	#60	44.53
				#100	29.58	#200	70.6	#100	40.25
				#200	26.2			#200	36.32
COEFFICIENTS				REMARKS					
C _c	●	☒	▲	●	A-2-6 (0)				
C _u				☒	A-7-5 (20)				
				▲	A-7-6 (3)				

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

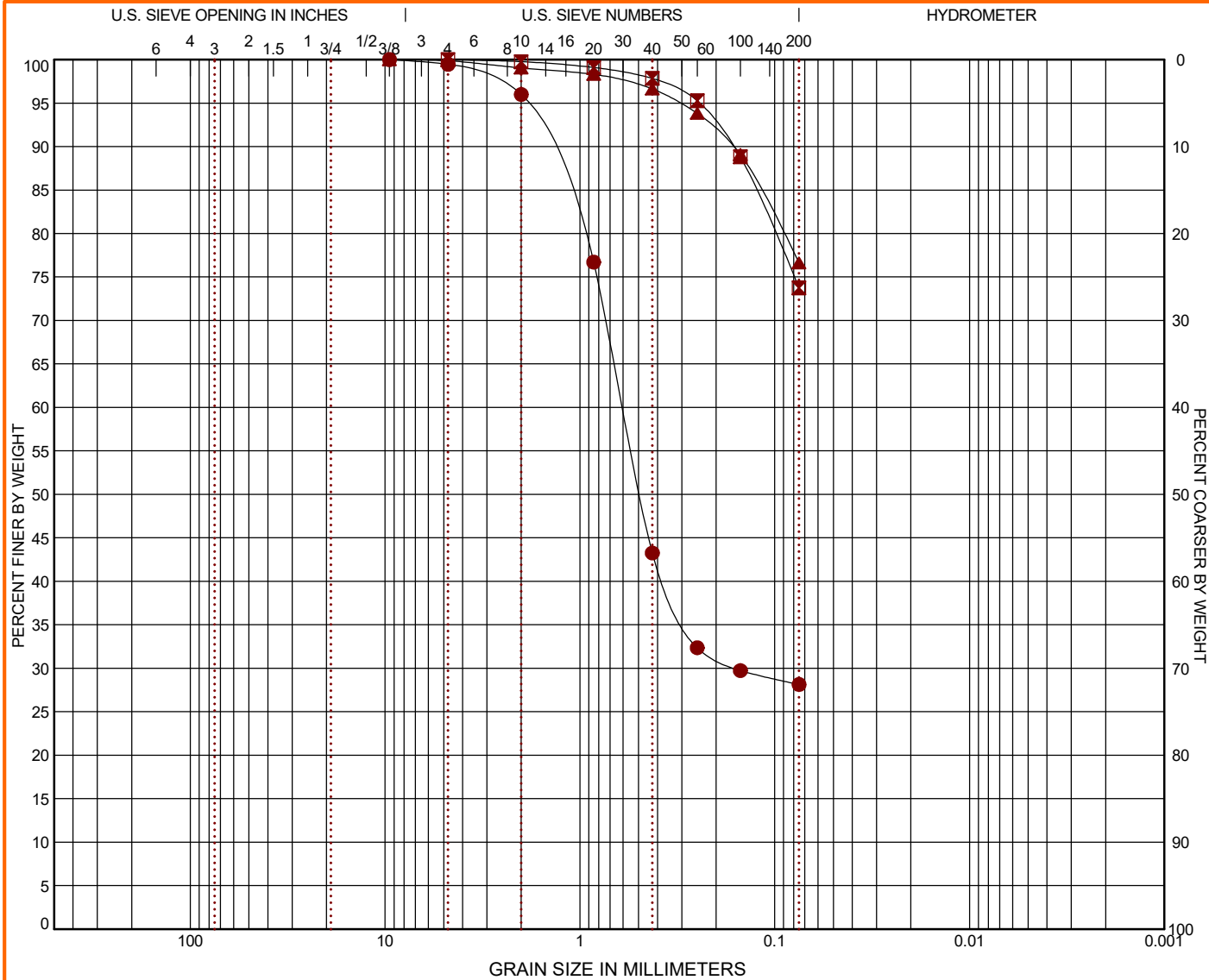
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Charleston, SC

GRAIN SIZE DISTRIBUTION

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-126	15 - 16.5	0.0	0.5	71.3		28.1		
☒ G-126	35 - 36.5	0.0	0.0	26.3		73.7		MH
▲ G-126	55.1 - 56.6	0.0	0.1	23.2		76.6		MH

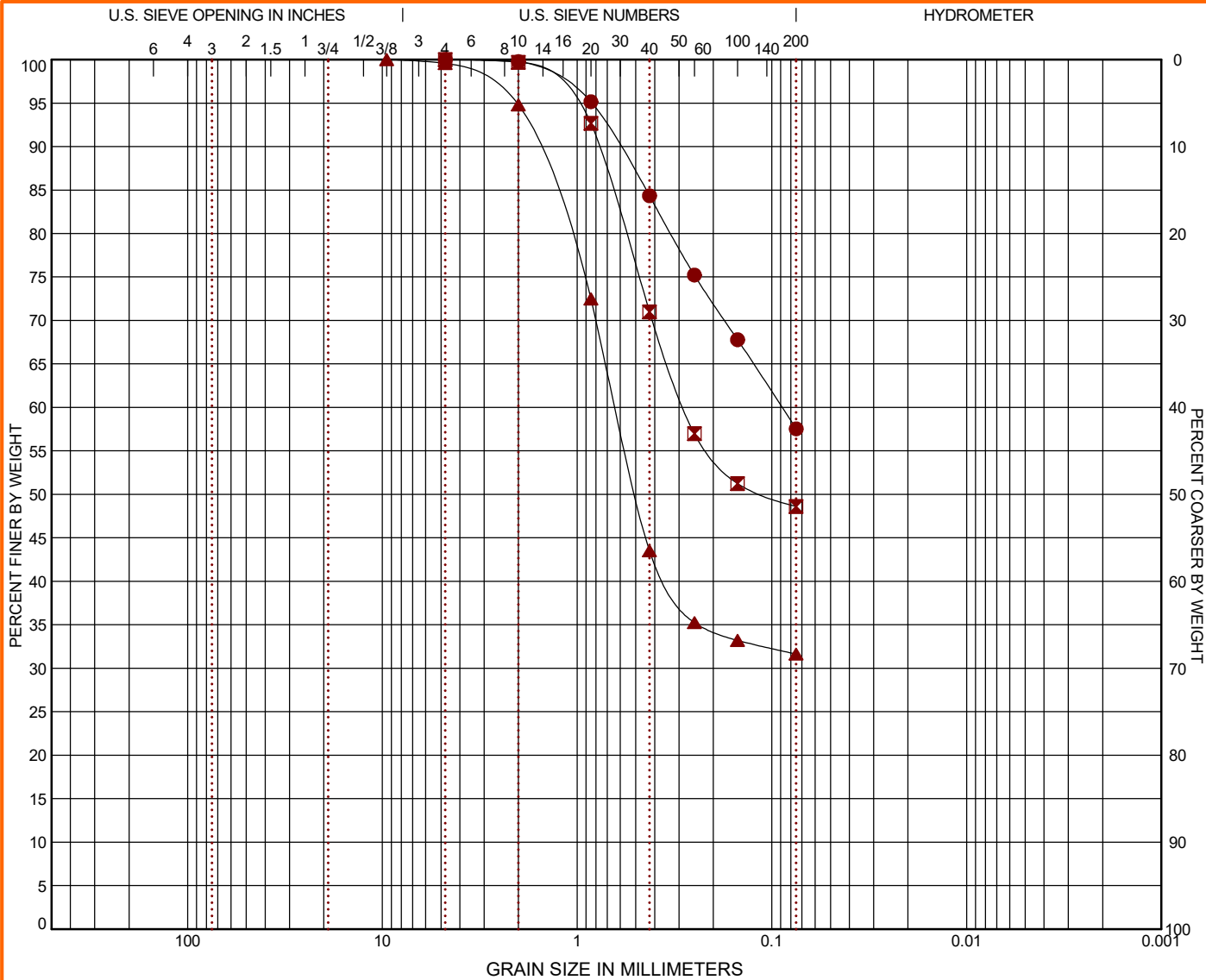
GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.601			3/8"	100.0	#4	100.0	3/8"	100.0
D ₃₀	0.158			#4	99.45	#10	99.76	#4	99.87
D ₁₀				#10	95.99	#20	99.09	#10	99.03
				#20	76.71	#40	97.84	#20	98.3
				#40	43.26	#60	95.27	#40	96.63
				#60	32.36	#100	88.81	#60	93.82
				#100	29.73	#200	73.75	#100	89.07
				#200	28.14			#200	76.62
COEFFICIENTS				REMARKS					
	●	☒	▲						
C _c									
C _u									

PROJECT: Carolina Crossroads Phase 2	<p>521 Clemson Rd Columbia, SC</p>	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

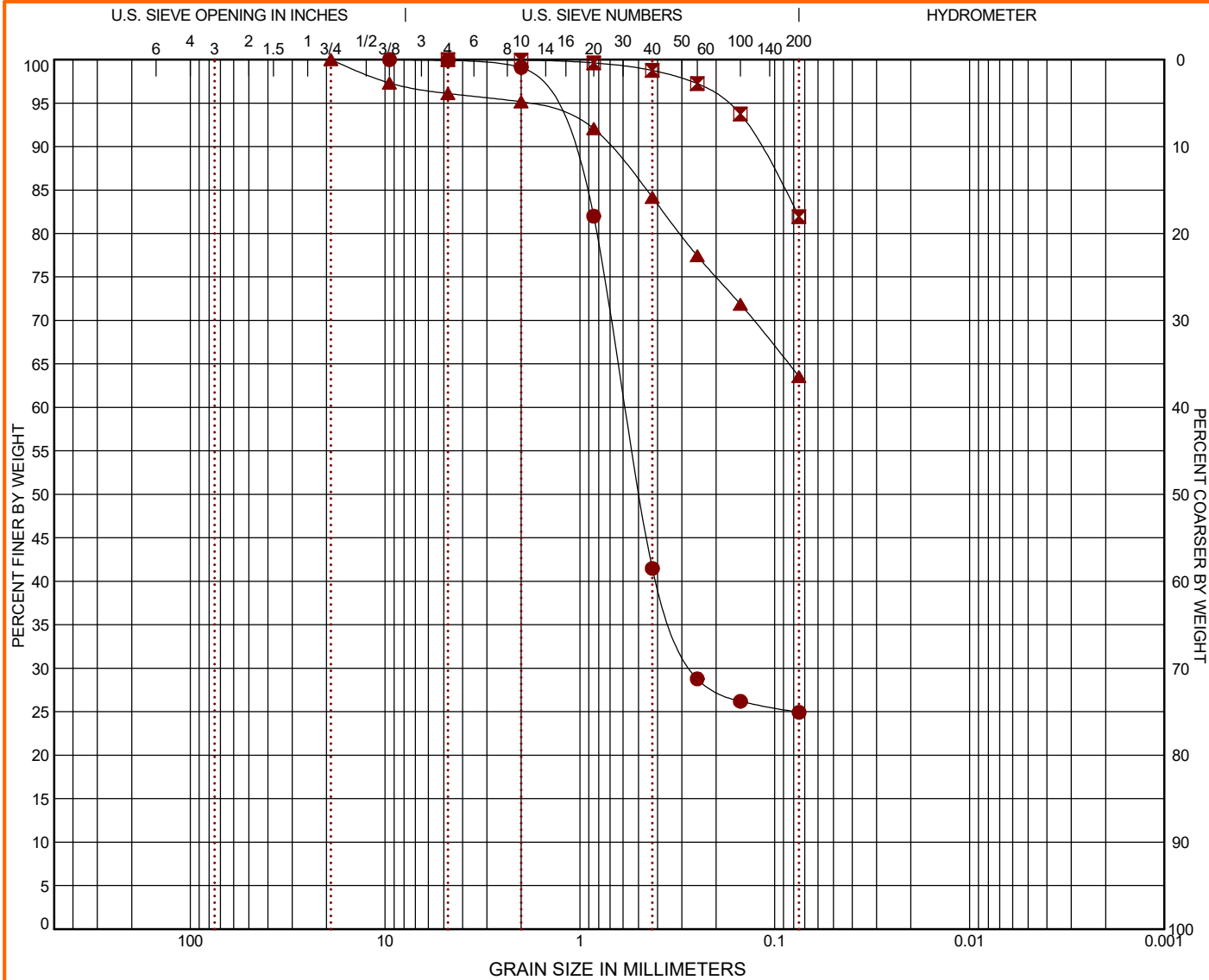
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GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-118	29.5 - 31	0.0	0.1	75.0		24.9		SM
☒ G-118	49.5 - 51	0.0	0.0	18.1		81.9		ML
▲ G-121	6 - 8	0.0	3.9	32.6		63.5		ML

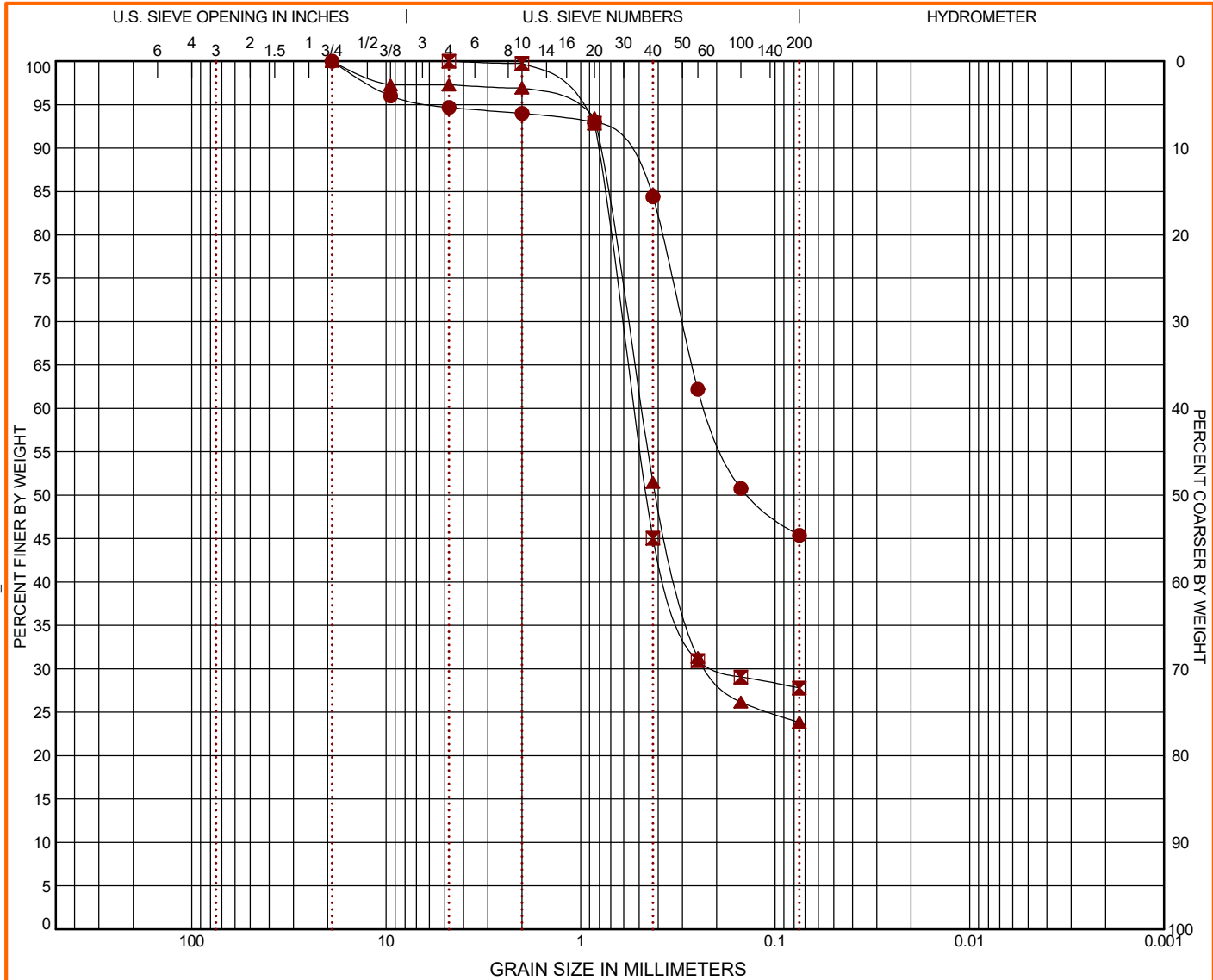
GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.583			3/8"	100.0	#4	100.0	3/4"	100.0
D ₃₀	0.263			#4	99.91	#10	99.93	3/8"	97.3
D ₁₀				#10	99.11	#20	99.62	#4	96.1
				#20	81.99	#40	98.75	#10	95.15
				#40	41.48	#60	97.24	#20	92.06
				#60	28.79	#100	93.73	#40	84.17
				#100	26.2	#200	81.92	#60	77.44
				#200	24.93			#100	71.86
								#200	63.54
COEFFICIENTS				REMARKS					
	●	☒	▲						
C _c									
C _u									

PROJECT: Carolina Crossroads Phase 2	<p>521 Clemson Rd Columbia, SC</p>	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

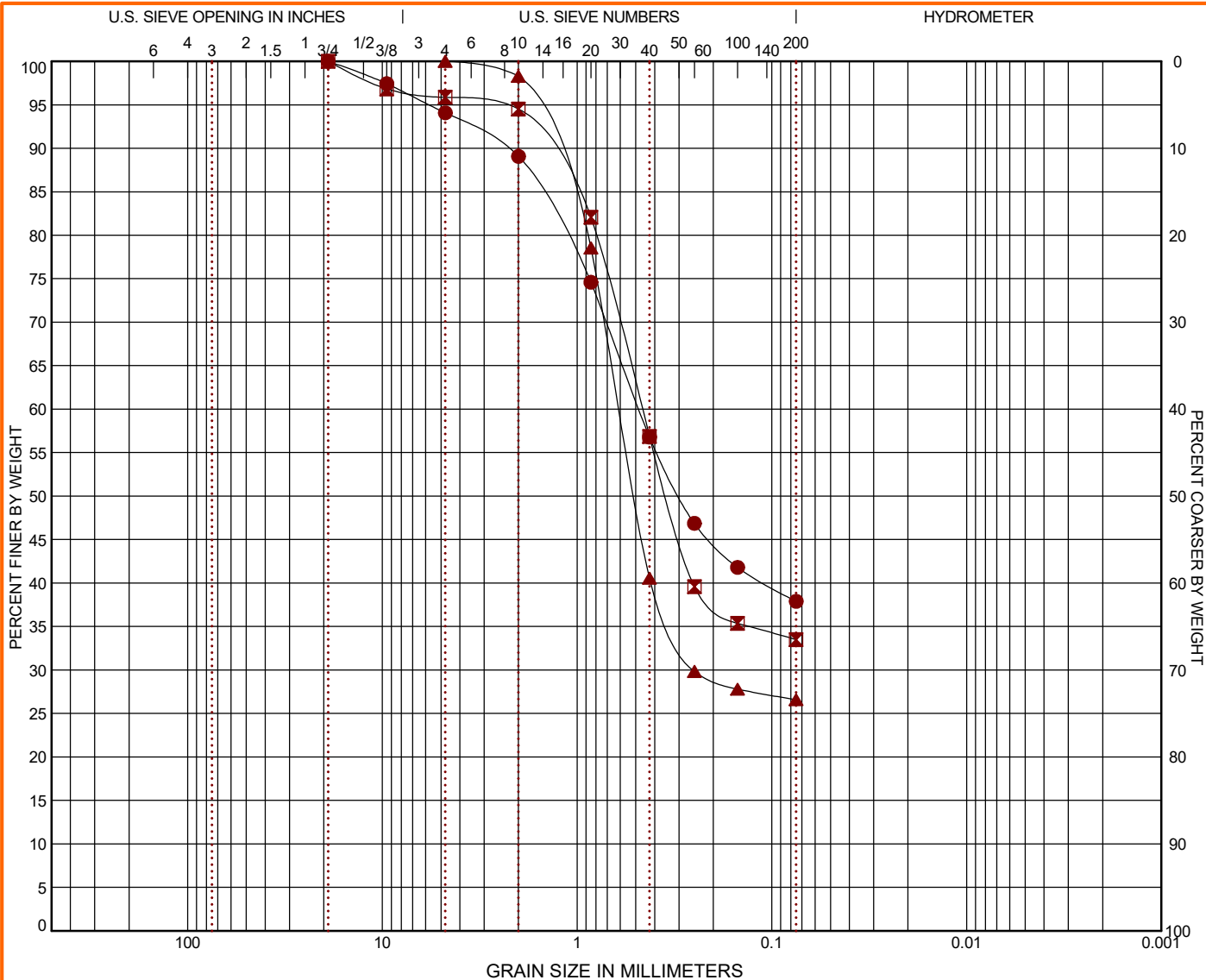
BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-121	19 - 20.5	0.0	5.3	49.3		45.4		SC
✕ G-121	34 - 35.5	0.0	0.0	72.2		27.8		SM
▲ G-121	49 - 50.5	0.0	2.7	73.4		23.8		SC

GRAIN SIZE				SOIL DESCRIPTION					
	●	✕	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.227	0.528	0.489	3/4"	100.0	#4	100.0	3/4"	100.0
D ₃₀		0.193	0.219	3/8"	96.0	#10	99.74	3/8"	97.28
D ₁₀				#4	94.67	#20	92.85	#4	97.28
				#10	93.99	#40	45.03	#10	96.91
				#20	92.99	#60	30.96	#20	93.5
				#40	84.38	#100	29.06	#40	51.47
				#60	62.19	#200	27.78	#60	31.32
				#100	50.77			#100	26.18
				#200	45.38			#200	23.83
COEFFICIENTS				REMARKS					
	●	✕	▲						
C _c									
C _u									

PROJECT: Carolina Crossroads Phase 2	<p>521 Clemson Rd Columbia, SC</p>	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-122	4 - 6	0.0	5.9	56.2		37.9		SC
☒ G-122	18.9 - 20.4	0.0	4.1	62.4		33.5		SC
▲ G-122	28.9 - 30.4	0.0	0.0	73.4		26.6		SM

GRAIN SIZE				SOIL DESCRIPTION			
	●	☒	▲	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.482	0.463	0.606	3/4"	100.0	3/4"	100.0
D ₃₀			0.252	3/8"	97.42	3/8"	96.83
D ₁₀				#4	94.07	#4	95.86
				#10	89.06	#10	94.52
				#20	74.59	#20	82.06
				#40	56.79	#40	56.86
				#60	46.86	#60	39.6
				#100	41.8	#100	35.37
				#200	37.9	#200	33.5
						#4	100.0
						#10	98.28
						#20	78.55
						#40	40.55
						#60	29.83
						#100	27.8
						#200	26.59
COEFFICIENTS				REMARKS			
	●	☒	▲				
C _c							
C _u							

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC



PROJECT NUMBER: 73225031

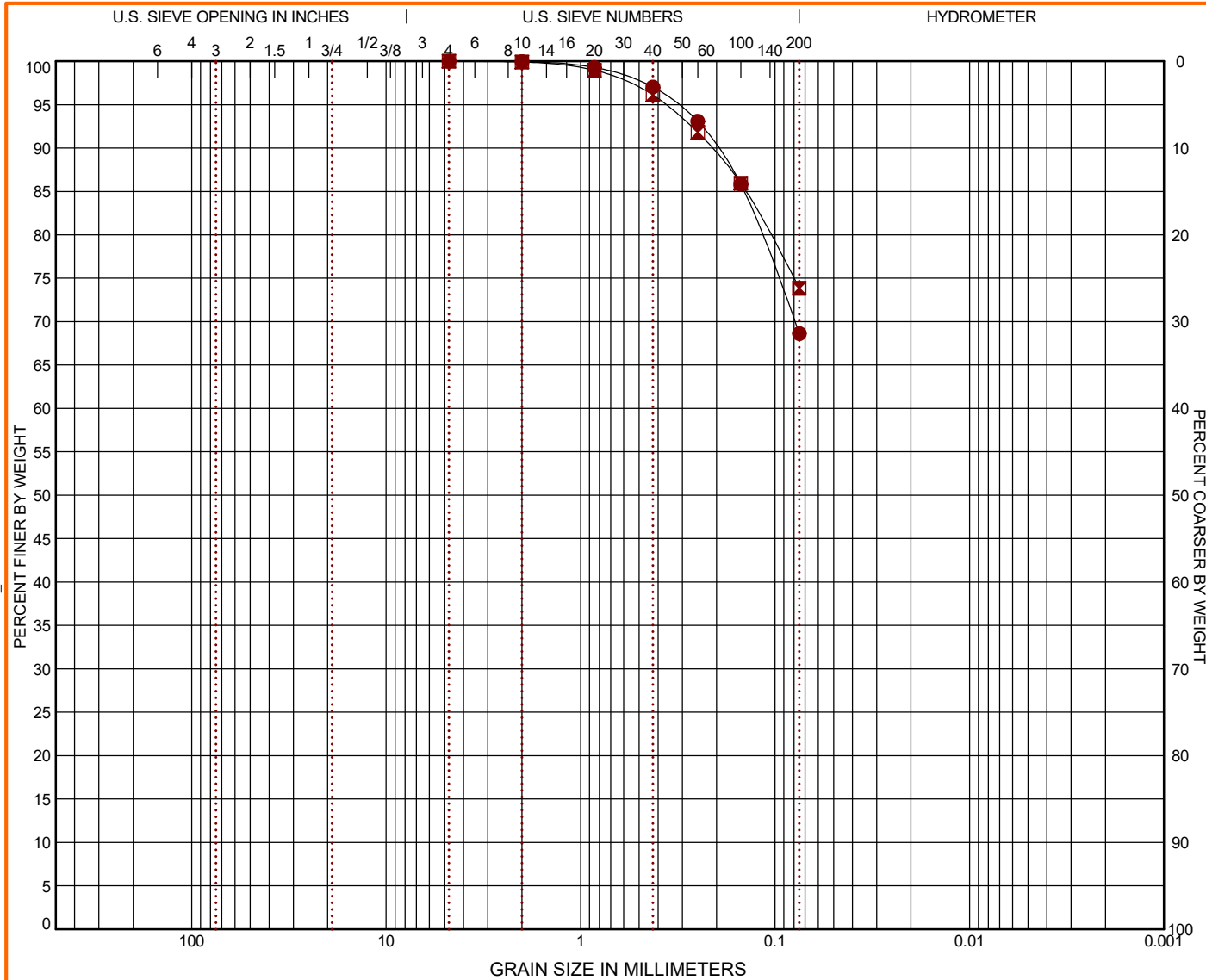
CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: AASHTO DESC-1 73225031 CAROLINA CROSSROADS GPJ TERRACON DATATEMPLATE.GDT 4/20/22

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: AASHTO DESC-1 73225031 CAROLINA CROSSROADS.GPJ TERRACON_DATATEMPLATE.GDT 4/20/22



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-122	53.9 - 55.4	0.0	0.0	31.4		68.6		ML
✕ G-122	58.9 - 60.4	0.0	0.0	26.2		73.8		ML

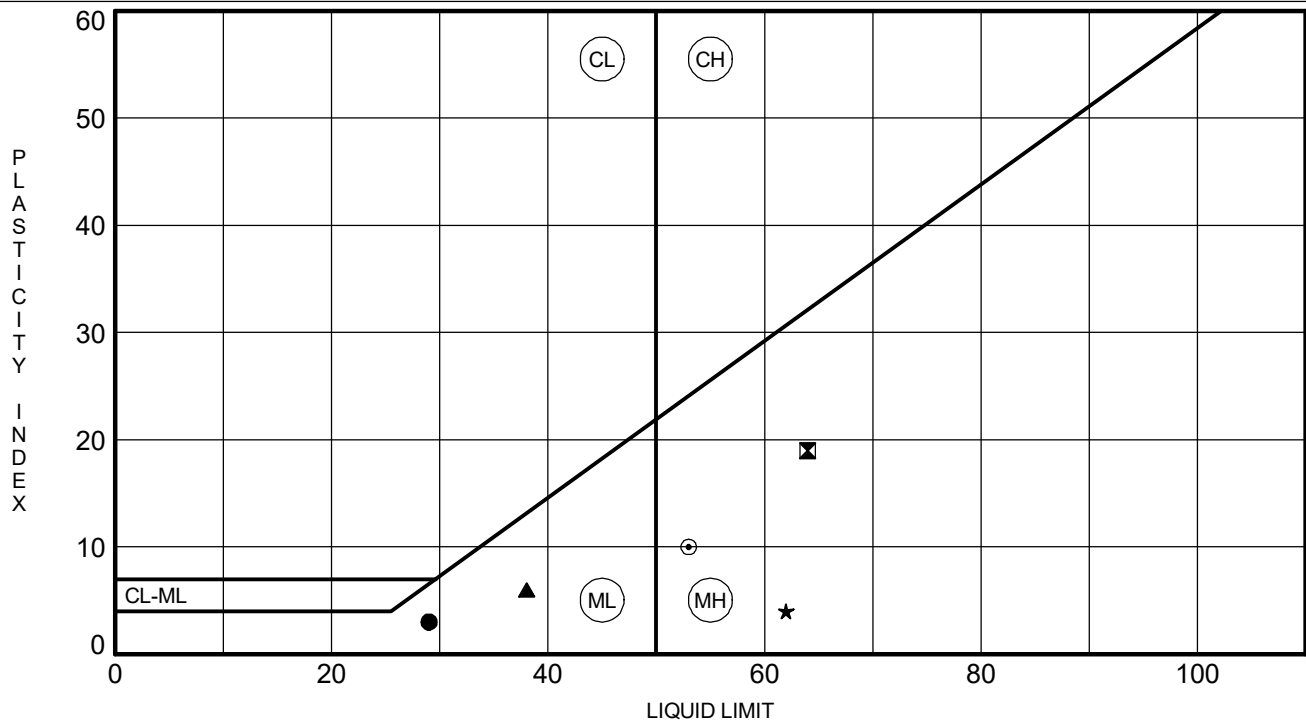
GRAIN SIZE				SOIL DESCRIPTION			
	●	✕		Sieve	% Finer	Sieve	% Finer
D ₆₀				#4	100.0	#4	100.0
D ₃₀				#10	99.94	#10	99.91
D ₁₀				#20	99.29	#20	98.96
				#40	97.03	#40	96.11
				#60	93.08	#60	91.81
				#100	85.83	#100	85.95
				#200	68.63	#200	73.84
COEFFICIENTS				REMARKS			
	●	✕		●	A-4 (5)		
C _c				✕	A-7-5 (10)		
C _u							

PROJECT: Carolina Crossroads Phase 2	<p>521 Clemson Rd Columbia, SC</p>	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

PROJECT ID P039719

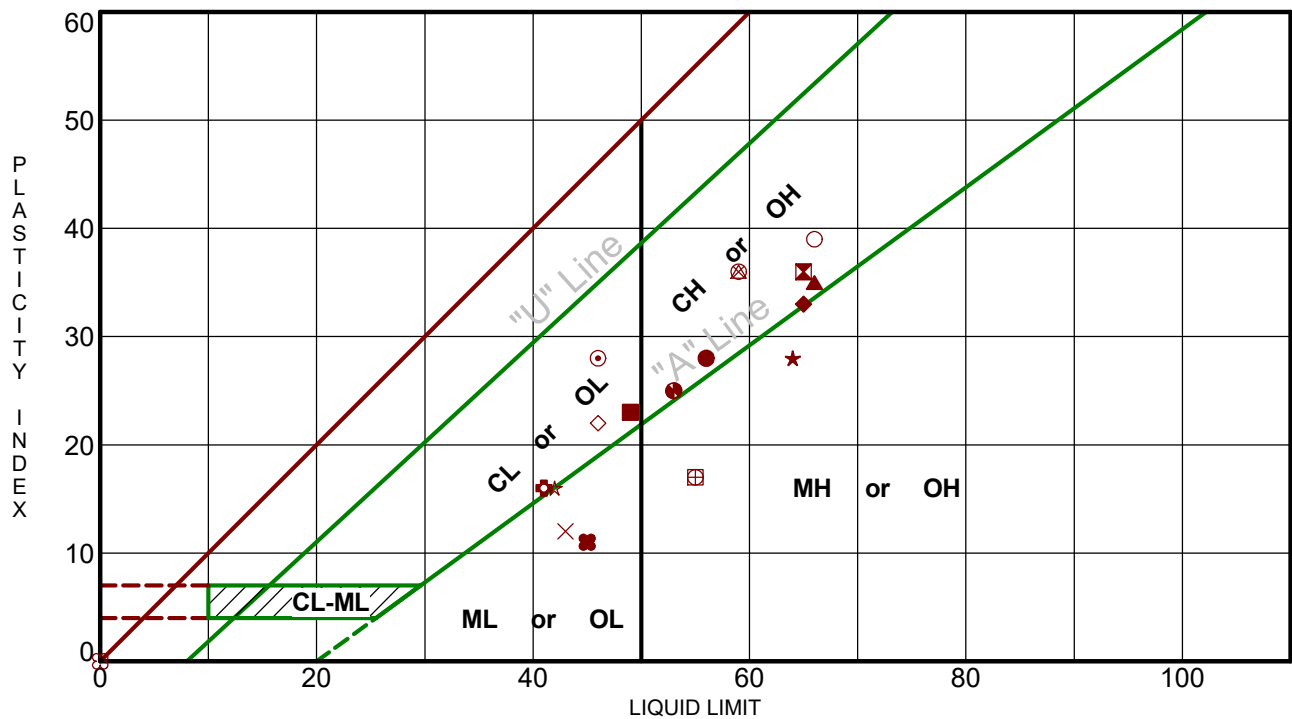
PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

[illegible]

ATTERBERG LIMITS RESULTS

ASTM D4318



Boring ID	Depth	LL	PL	PI	Fines	AASHTO	Description
● G-022 Bulk	0 - 5	56	28	28	43.0	A-7-6 (7)	CLAYEY SAND (SC)
⊠ G-044 Bulk	0 - 10	65	29	36	52.4	A-7-6 (15)	SANDY FAT CLAY (CH)
▲ G-048 Bulk	0 - 5	66	31	35	72.1	A-7-5 (26)	FAT CLAY with SAND (CH)
★ G-026 Bulk	0 - 15	64	36	28	79.7	A-7-5 (26)	ELASTIC SILT with SAND (MH)
⊙ G-023 Bulk	0 - 15	46	18	28	35.8	A-7-6 (4)	CLAYEY SAND (SC)
⊕ G-104 Bulk	0 - 10	41	25	16	54.7	A-7-6 (7)	SANDY LEAN CLAY (CL)
○ G-024 Bulk	0 - 15	66	27	39	50.3	A-7-6 (15)	SANDY FAT CLAY (CH)
△ G-129A	20 - 22	59	23	36	31.1	A-2-7 (4)	CLAYEY SAND (SC)
⊗ G-129A	22 - 24	59	23	36	31.1	A-2-7 (4)	CLAYEY SAND (SC)
⊕ G-138A	22 - 24	55	38	17	81.4	A-7-5 (17)	ELASTIC SILT with SAND (MH)
□ G-138A	24 - 26	55	38	17	81.4	A-7-5 (17)	ELASTIC SILT with SAND (MH)
⊕ G-069A	6 - 8	53	28	25	51.1	A-7-6 (10)	SANDY FAT CLAY (CH)
⊕ G-069A	8 - 10	53	28	25	51.1	A-7-6 (10)	SANDY FAT CLAY (CH)
★ G-130	19.1 - 20.6	42	26	16	28.3	A-2-7 (1)	SILTY SAND (SM)
⊗ G-130	29.1 - 30.6	NP	NP	NP	26.6	A-2-4 (0)	SILTY SAND (SM)
■ G-130	44.1 - 45.6	49	26	23	82.3	A-7-6 (20)	LEAN CLAY with SAND (CL)
◆ G-131	8 - 10	65	32	33	42.6	A-7-5 (9)	CLAYEY SAND (SC)
◇ G-131	19.2 - 20.7	46	24	22	30.5	A-2-7 (2)	CLAYEY SAND (SC)
× G-131	34.2 - 35.7	43	31	12	27.2	A-2-7 (0)	SILTY SAND (SM)
⊕ G-131	54.2 - 55.7	45	34	11	58.1	A-7-5 (6)	SANDY SILT (ML)

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
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Columbia, SC

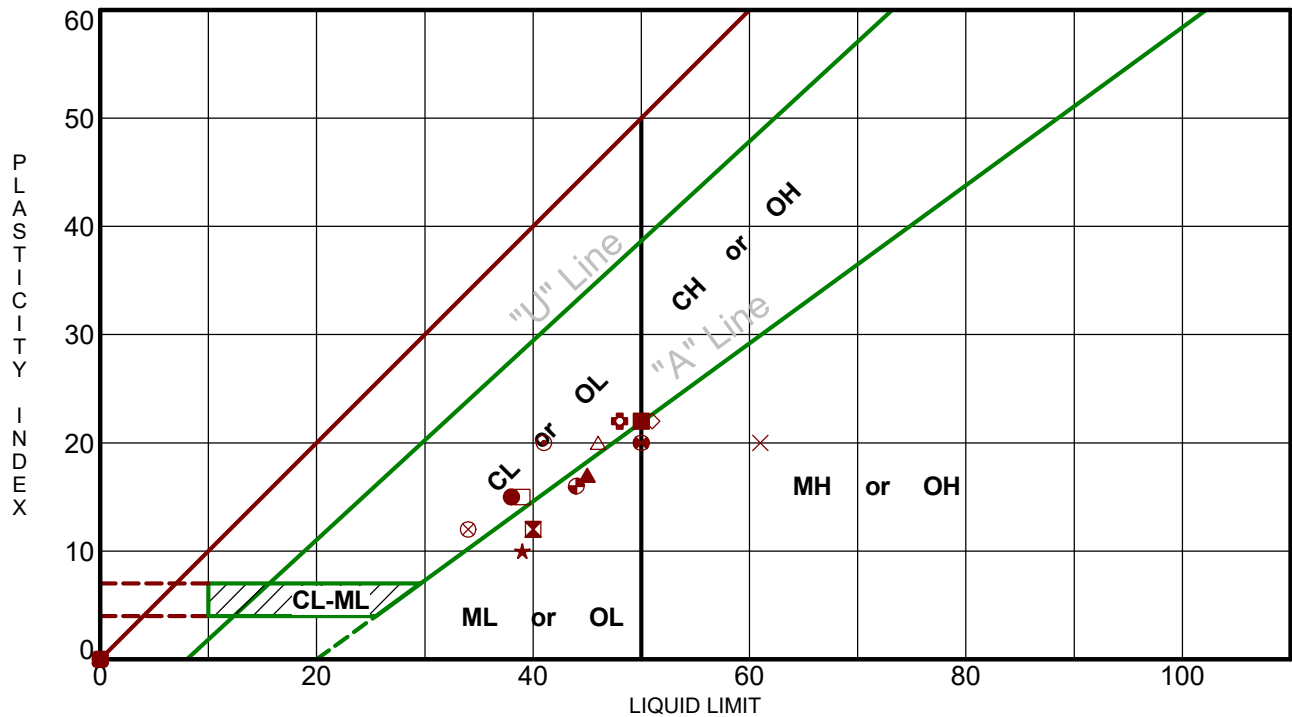
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ATTERBERG LIMITS-AASHTO 73225031 CAROLINA CROSSROADS.GPJ TERRACON_DATATEMPLATE.GDT 4/20/22

ATTERBERG LIMITS RESULTS

ASTM D4318



Boring ID	Depth	LL	PL	PI	Fines	AASHTO	Description
G-131	74.2 - 75.7	38	23	15	67.9	A-6 (9)	SANDY LEAN CLAY (CL)
G-128	29.2 - 30.7	40	28	12	25.5	A-2-6 (0)	SILTY SAND (SM)
G-128	44.2 - 45.7	45	28	17	80.9	A-7-6 (15)	SILT with SAND (ML)
G-128	59.2 - 60.7	39	29	10	76.0	A-4 (8)	SILT with SAND (ML)
G-129	4 - 6	41	21	20	45.2	A-7-6 (5)	CLAYEY SAND (SC)
G-129	19.2 - 20.7	48	26	22	31.9	A-2-7 (2)	CLAYEY SAND (SC)
G-129	29.2 - 30.7	NP	NP	NP	27.3	A-2-4 (0)	SILTY SAND (SM)
G-129	44.2 - 45.7	46	26	20	69.3	A-7-6 (13)	SANDY LEAN CLAY (CL)
G-140	4 - 6	34	22	12	28.7	A-2-6 (0)	CLAYEY SAND (SC)
G-140	18.1 - 19.6	NP	NP	NP	27.9	A-2-4 (0)	SILTY SAND (SM)
G-140	23.1 - 24.6	39	24	15	20.3	A-2-6 (0)	CLAYEY SAND (SC)
G-140	38.1 - 39.6	50	30	20	61.5	A-7-5 (11)	SANDY ELASTIC SILT (MH)
G-033	6 - 8	44	28	16	33.0	A-2-7 (1)	SILTY SAND (SM)
G-033	18.6 - 20.1	NP	NP	NP	86.2	A-4 (0)	SILT (ML)
G-033	33.6 - 35.1	NP	NP	NP	92.4	A-4 (0)	SILT (ML)
G-139	8 - 10	50	28	22	33.2	A-2-7 (2)	CLAYEY SAND (SC)
G-139	38 - 39.5	NP	NP	NP	86.7	A-4 (0)	SILT (ML)
G-138	6 - 8	51	29	22	32.2	A-2-7 (2)	SILTY SAND (SM)
G-138	24.2 - 25.7	61	41	20	85.8	A-7-5 (23)	ELASTIC SILT (MH)
G-138	34.2 - 35.7	NP	NP	NP	66.3	A-4 (0)	SANDY SILT (ML)

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

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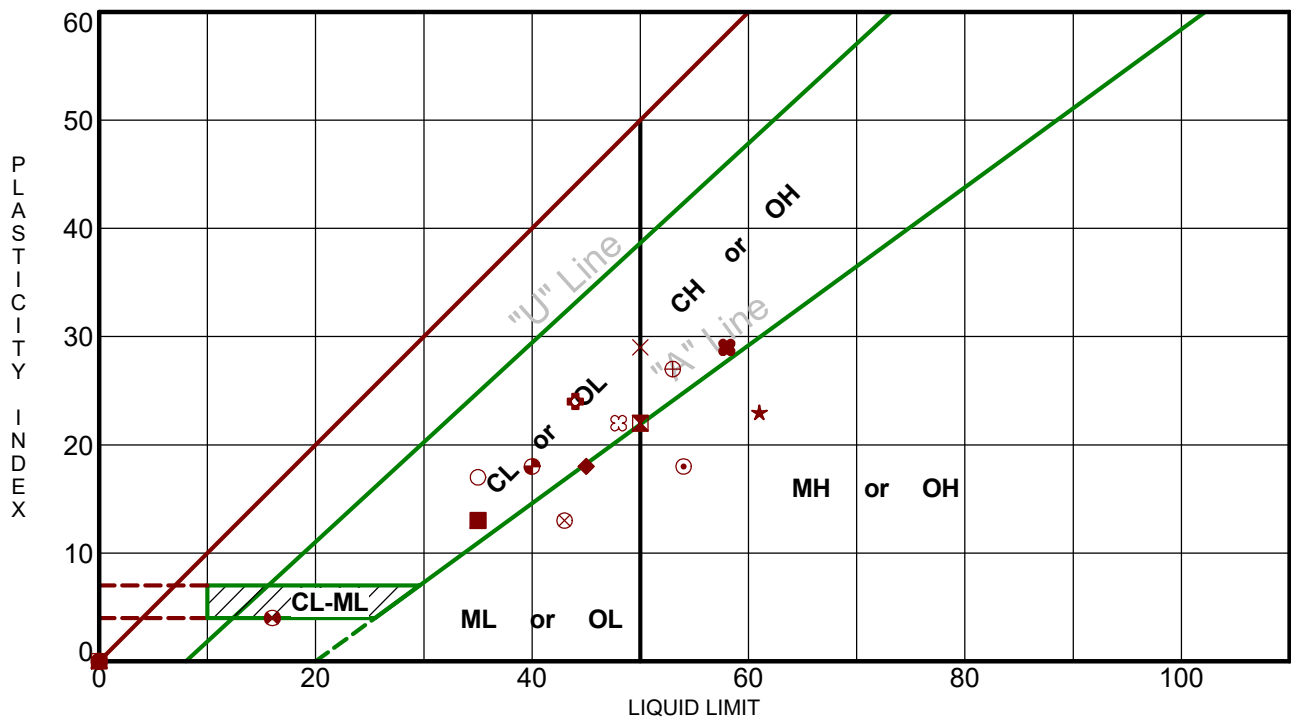
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

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ATTERBERG LIMITS RESULTS

ASTM D4318



Boring ID	Depth	LL	PL	PI	Fines	AASHTO	Description
● G-138	49.2 - 50.7	NP	NP	NP	71.1	A-4 (0)	SILT with SAND (ML)
⊠ G-136	8 - 10	50	28	22	32.8	A-2-7 (2)	CLAYEY SAND (SC)
▲ G-136	23.4 - 24.9	NP	NP	NP	69.2	A-4 (0)	SANDY SILT (ML)
★ G-136	38.4 - 39.9	61	38	23	67.8	A-7-5 (17)	SANDY ELASTIC SILT (MH)
⊙ G-136	48.4 - 49.9	54	36	18	73.4	A-7-5 (15)	ELASTIC SILT with SAND (MH)
⊕ G-088	2 - 4	44	20	24	52.1	A-7-6 (9)	SANDY LEAN CLAY (CL)
○ G-102	6 - 8	35	18	17	42.7	A-6 (3)	CLAYEY SAND (SC)
△ G-102	18.5 - 20	NP	NP	NP	63.3	A-4 (0)	SANDY SILT (ML)
⊗ G-102	33.5 - 35	43	30	13	64.4	A-7-5 (8)	SANDY SILT (ML)
⊕ G-028	6 - 8	53	26	27	43.9	A-7-6 (7)	CLAYEY SAND (SC)
□ G-029	2 - 4	NP	NP	NP	69.5	A-4 (0)	SANDY SILT (ML)
⊕ G-030	4 - 6	16	12	4	29.0	A-2-4 (0)	SILTY, CLAYEY SAND (SC-SM)
⊕ G-031	6 - 8	40	22	18	35.9	A-6 (2)	CLAYEY SAND (SC)
★ G-096	2 - 4	NP	NP	NP	64.9	A-4 (0)	SANDY SILT (ML)
⊗ G-125	8 - 10	48	26	22	34.5	A-2-7 (2)	CLAYEY SAND (SC)
■ G-125	19.6 - 21.1	35	22	13	27.1	A-2-6 (0)	CLAYEY SAND (SC)
◆ G-125	34.6 - 36.1	45	27	18	77.4	A-7-6 (14)	SILT with SAND (ML)
◇ G-125	54.6 - 56.1	NP	NP	NP	73.0	A-4 (0)	SILT with SAND (ML)
× G-127	6 - 8	50	21	29	25.5	A-2-7 (2)	CLAYEY SAND (SC)
⊕ G-127	14.6 - 16.1	58	29	29	33.3	A-2-7 (3)	CLAYEY SAND (SC)

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

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Columbia, SC

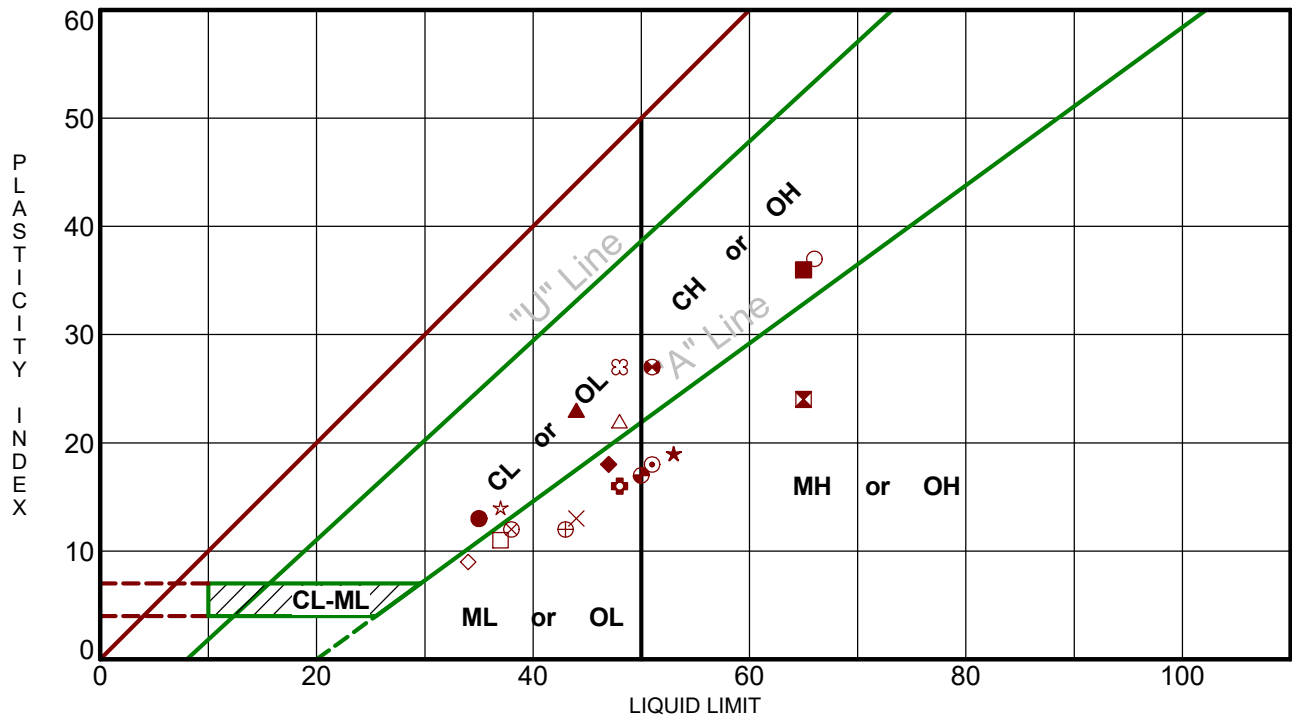
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

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ATTERBERG LIMITS RESULTS

ASTM D4318



Boring ID	Depth	LL	PL	PI	Fines	AASHTO	Description
● G-127	24.6 - 26.1	35	22	13	26.2	A-2-6 (0)	CLAYEY SAND (SC)
⊠ G-127	39.6 - 41.1	65	41	24	70.6	A-7-5 (20)	ELASTIC SILT with SAND (MH)
▲ G-126	4 - 6	44	21	23	36.3	A-7-6 (3)	CLAYEY SAND (SC)
★ G-126	35 - 36.5	53	34	19	73.7	A-7-5 (16)	ELASTIC SILT with SAND (MH)
⊙ G-126	55.1 - 56.6	51	33	18	76.6	A-7-5 (16)	ELASTIC SILT with SAND (MH)
⊕ G-126	70.1 - 71.6	48	32	16	57.5	A-7-5 (8)	SANDY SILT (ML)
○ G-017	14.4 - 15.9	66	29	37	48.6	A-7-6 (14)	CLAYEY SAND (SC)
△ G-118	19.5 - 21	48	26	22	31.6	A-2-7 (2)	CLAYEY SAND (SC)
⊗ G-118	29.5 - 31	38	26	12	24.9	A-2-6 (0)	SILTY SAND (SM)
⊕ G-118	49.5 - 51	43	31	12	81.9	A-7-5 (11)	SILT with SAND (ML)
□ G-121	6 - 8	37	26	11	63.5	A-6 (6)	SANDY SILT (ML)
⊕ G-121	19 - 20.5	51	24	27	45.4	A-7-6 (8)	CLAYEY SAND (SC)
⊕ G-121	34 - 35.5	50	33	17	27.8	A-2-7 (1)	SILTY SAND (SM)
★ G-121	49 - 50.5	37	23	14	23.8	A-2-6 (0)	CLAYEY SAND (SC)
⊗ G-122	4 - 6	48	21	27	37.9	A-7-6 (5)	CLAYEY SAND (SC)
■ G-122	18.9 - 20.4	65	29	36	33.5	A-2-7 (5)	CLAYEY SAND (SC)
◆ G-122	28.9 - 30.4	47	29	18	26.6	A-2-7 (1)	SILTY SAND (SM)
◇ G-122	53.9 - 55.4	34	25	9	68.6	A-4 (5)	SANDY SILT (ML)
× G-122	58.9 - 60.4	44	31	13	73.8	A-7-5 (10)	SILT with SAND (ML)

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX B – BRIDGE 42B

SECTION 3 LABORATORY TEST RESULTS

SECTION 3B SHELBY TUBE SAMPLES

Shelby Tubes

Boring	Sample	Depth (ft)	USCS	Origin	LL	PI	NMC (%)	ϕ (deg)	c (psf)	ϕ' (deg)	c' (psf)	C _c	C _r	C _v (ft ² /day)	OCR	e ₀
G-129	ST-1	20.0-22.0	SC	Coastal Plain	59	36	14.7	9.9	1195	34.3	173	-	-	-	-	-
G-129	ST-2	22.0-24.0	SC	Coastal Plain	59	36	14.7	-	-	-	-	0.185	0.010	1.5	0.9	0.636
G-138	ST-1	22.0-24.0	MH	Residual	55	17	36.4	17.3	634	28.2	461	-	-	-	-	-
G-138	ST-2	24.0-26.0	MH	Residual	55	17	36.4	-	-	-	-	0.528	0.023	0.8	3.4	1.013

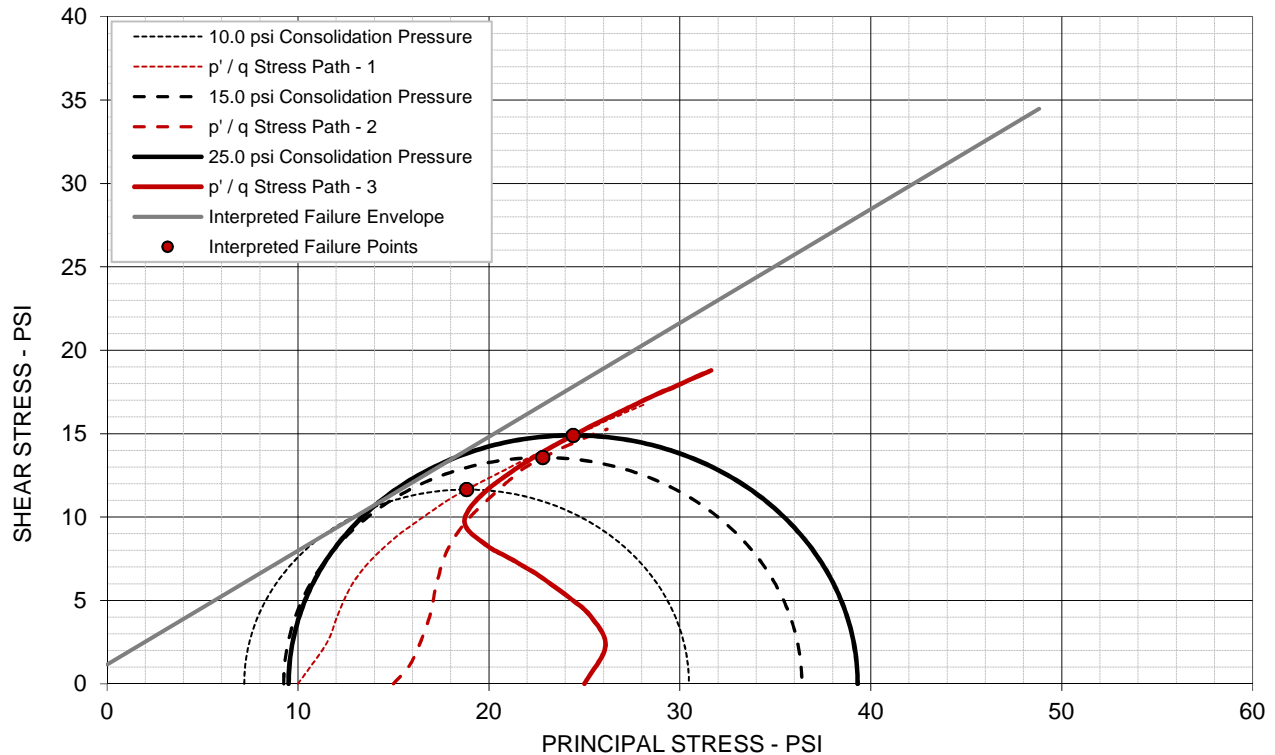
Recompacted Triaxials (Proposed Borrow)

Boring	Sample	Depth (ft)	USCS	Origin	LL	PI	NMC (%)	MDD (pcf)	OMC (%)	ϕ (deg)	c (psf)	ϕ' (deg)	c' (psf)
G-022	Bulk	0.0-5.0	SC	Coastal Plain	56	28	14.4	106.4	19.3	12.9	720	29.8	331
G-044	Bulk	0.0-10.0	CH	Coastal Plain	65	36	18.6	103.3	20.1	26.5	187	33.7	331
G-048	Bulk	0.0-5.0	CH	Coastal Plain	66	35	24.5	97.8	22.8	26.7	58	31.2	216
G-026	Bulk	0.0-15.0	MH	Coastal Plain	64	28	26.9	91.8	26.2	18.9	403	30.6	216
G-023	Bulk	0.0-15.0	SC	Coastal Plain/Residual	46	28	12.2	111.2	15.4	13.4	461	34.8	115
G-024	Bulk	0.0-15.0	CH	Coastal Plain/Residual	66	39	21.0	104.3	19.9	10.7	648	31.6	230
G-104	Bulk	0.0-10.0	CL	Ex. Roadway Embankment	41	16	21.6	107.3	14.7	18.9	274	30.5	130

ICU TRIAXIAL COMPRESSION TEST

ASTM D4767 / AASHTO T297

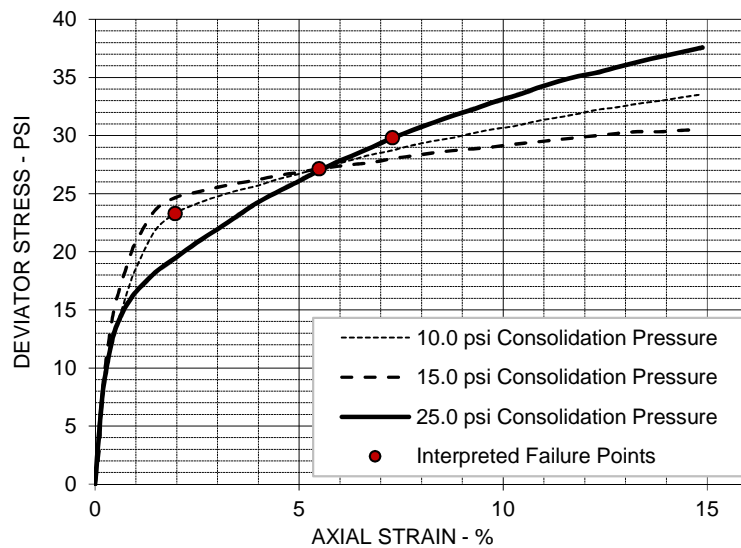
Failure Criteria: Max Obliquity (s1': s3')



EFFECTIVE STRESS PARAMETERS

$\phi' = 34.3$ deg

$c' = 1.2$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	14.7	14.7	14.7
Dry Density - pcf	105.7	105.8	107.6
Diameter - inches	2.90	2.89	2.87
Height - inches	5.97	5.95	6.00

AT TEST

Final Moisture - %	19.7	19.8	17.9
Dry Density - pcf	106.1	106.5	108.9
Calculated Diameter (in.)	2.88	2.87	2.83
Height - inches	5.92	5.91	5.92
Effect. Consol. Stress - psi	10.0	15.0	25.0
Failure Stress - psi	23.29	27.14	29.80
Total Pore Pressure - psi	52.8	55.8	65.5
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	2.0	5.5	7.3
σ_1' Failure - psi	30.48	36.39	39.31
σ_3' Failure - psi	7.19	9.25	9.51

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Undisturbed

DESCRIPTION: Clayey Sand (SC) / A-2-7 (4)

SAMPLE ID: G-129 20-22' ST-1

SPECIFIC GRAVITY: 2.65

LL: 59 PL: 23 PI: 36 Percent -200: 31.1%

Remarks:

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

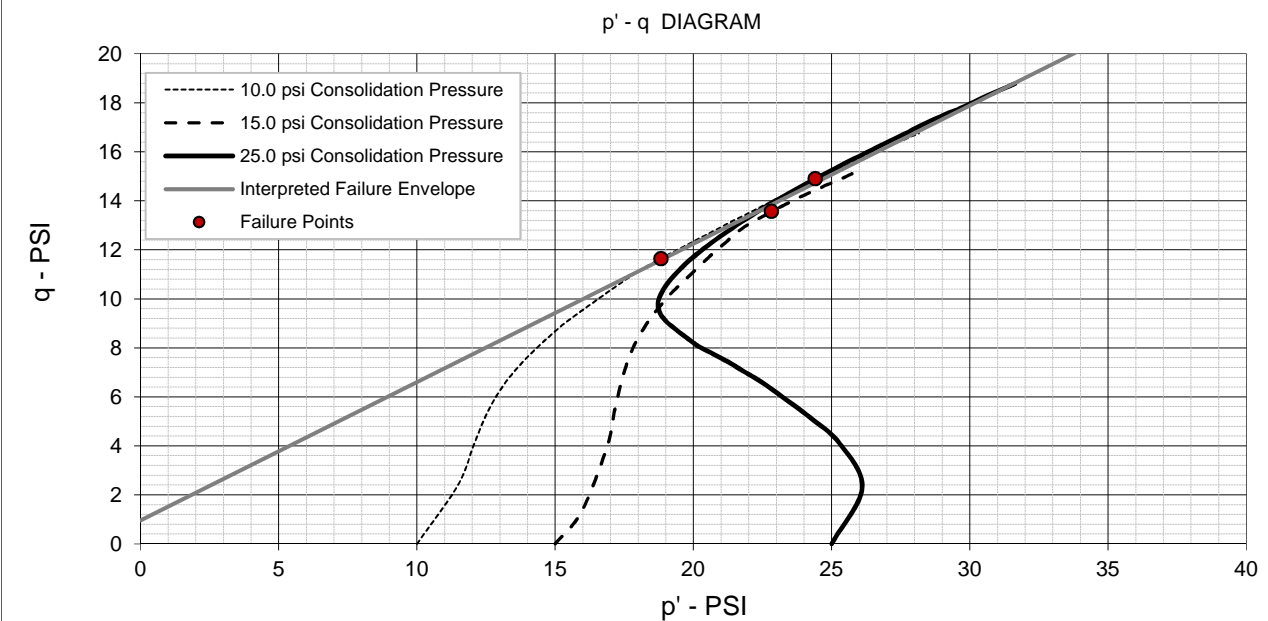
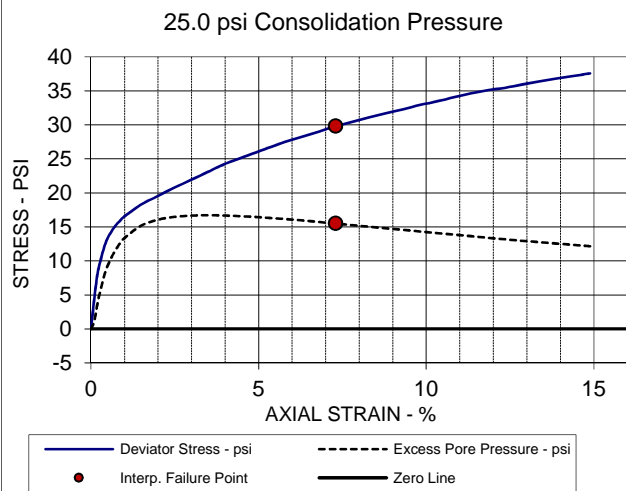
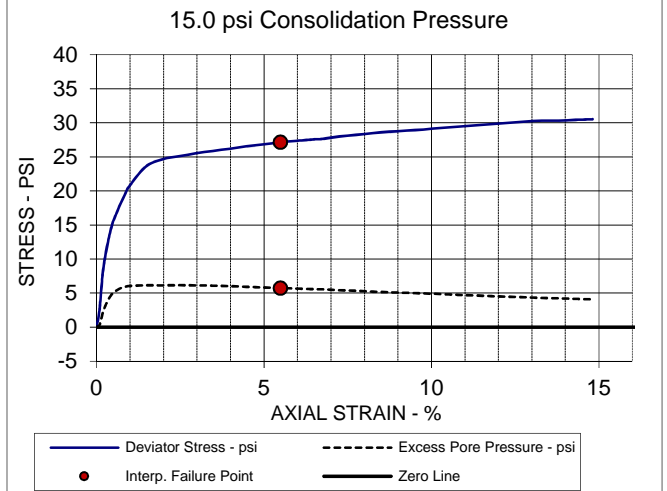
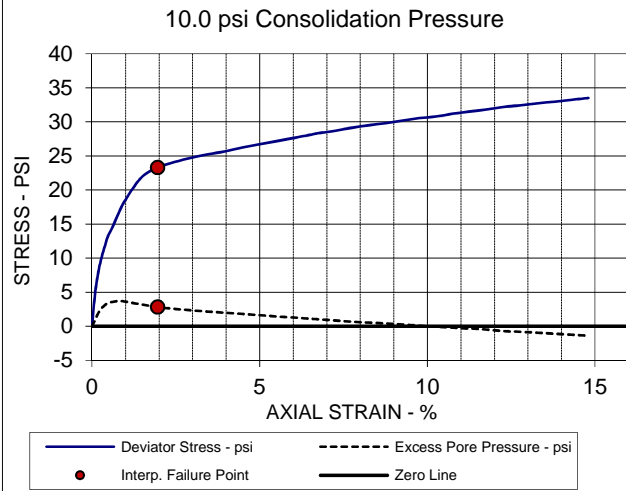
PROJECT #: 73225031


CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/25/22

521 Clemson Road
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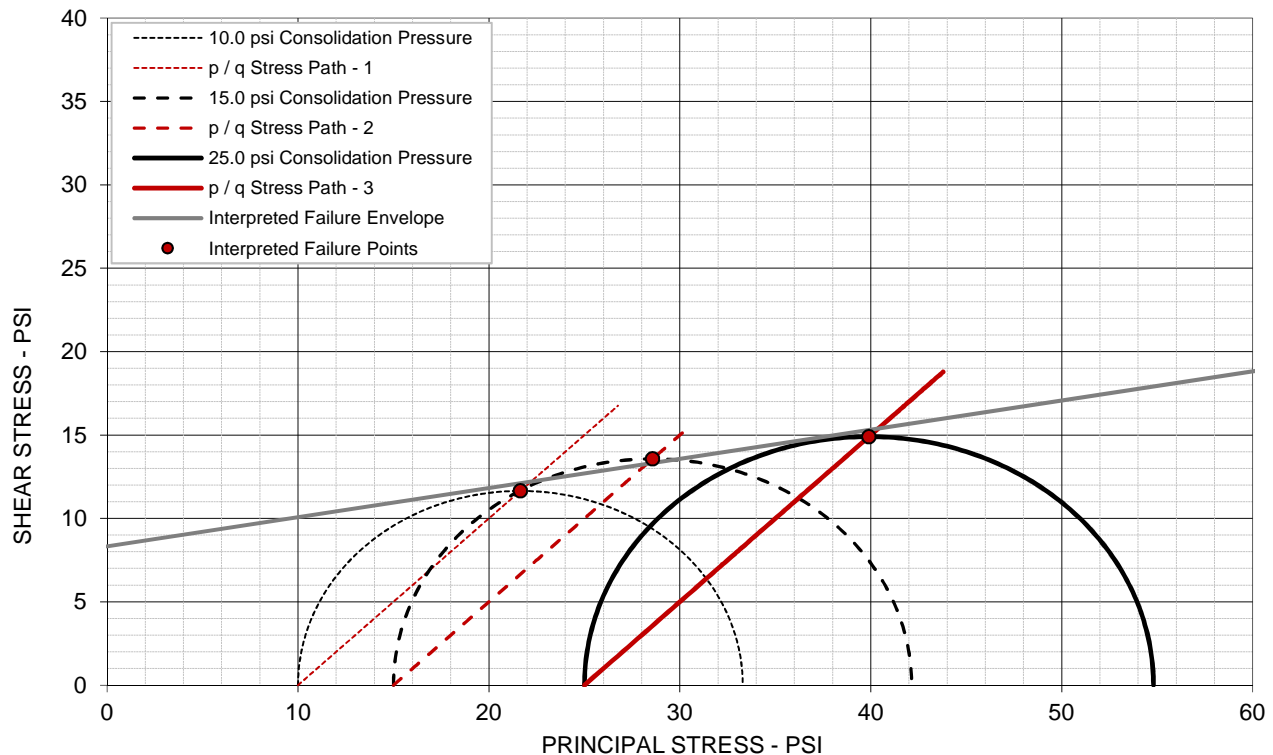


EFFECTIVE STRESS PARAMETERS	R ² = 0.99	α = 29.4 deg	a = 1.0 psi
PROJECT: Carolina Crossroads Phase 2		ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION TEST	
LOCATION: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC	
SAMPLE ID: G-129 20-22' ST-1		<div>521 Clemson Road Columbia, SC</div> <div></div>	
DESCRIPTION: Clayey Sand (SC) / A-2-7 (4)			

ICU TRIAXIAL COMPRESSION TEST

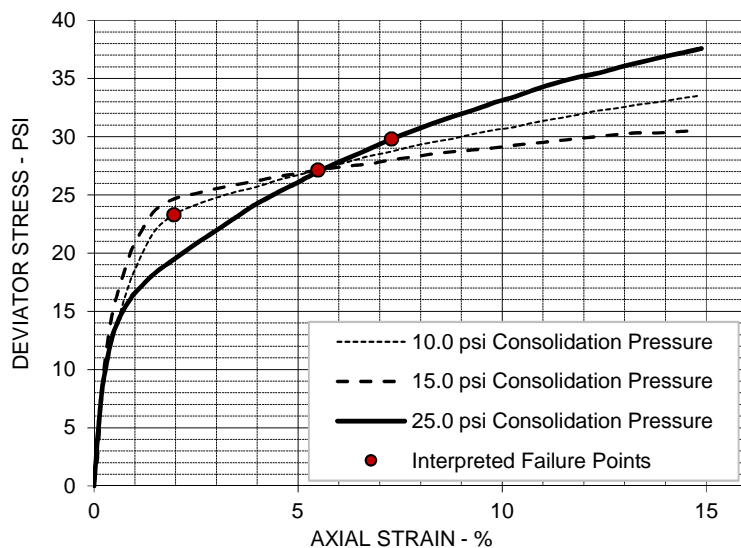
ASTM D4767 / AASHTO T297

Failure Criteria: Max Obliquity (s1': s3')



TOTAL STRESS PARAMETERS

$\phi = 9.9$ deg $c = 8.3$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	14.7	14.7	14.7
Dry Density - pcf	105.7	105.8	107.6
Diameter - inches	2.90	2.89	2.87
Height - inches	5.97	5.95	6.00

AT TEST

Final Moisture - %	19.7	19.8	17.9
Dry Density - pcf	106.1	106.5	108.9
Calculated Diameter (in.)	2.88	2.87	2.83
Height - inches	5.92	5.91	5.92
Effect. Consol. Stress - psi	10.0	15.0	25.0
Failure Stress - psi	23.29	27.14	29.80
Total Pore Pressure - psi	52.8	55.8	65.5
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	2.0	5.5	7.3
σ_1 Failure - psi	33.29	42.14	54.80
σ_3 Failure - psi	10.00	15.00	25.00

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Undisturbed

DESCRIPTION: Clayey Sand (SC) / A-2-7 (4)

SAMPLE ID: G-129 20-22' ST-1

SPECIFIC GRAVITY: 2.65

LL: 59 PL: 23 PI: 36 Percent -200: 31.1%

Remarks:

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

PROJECT #: 73225031

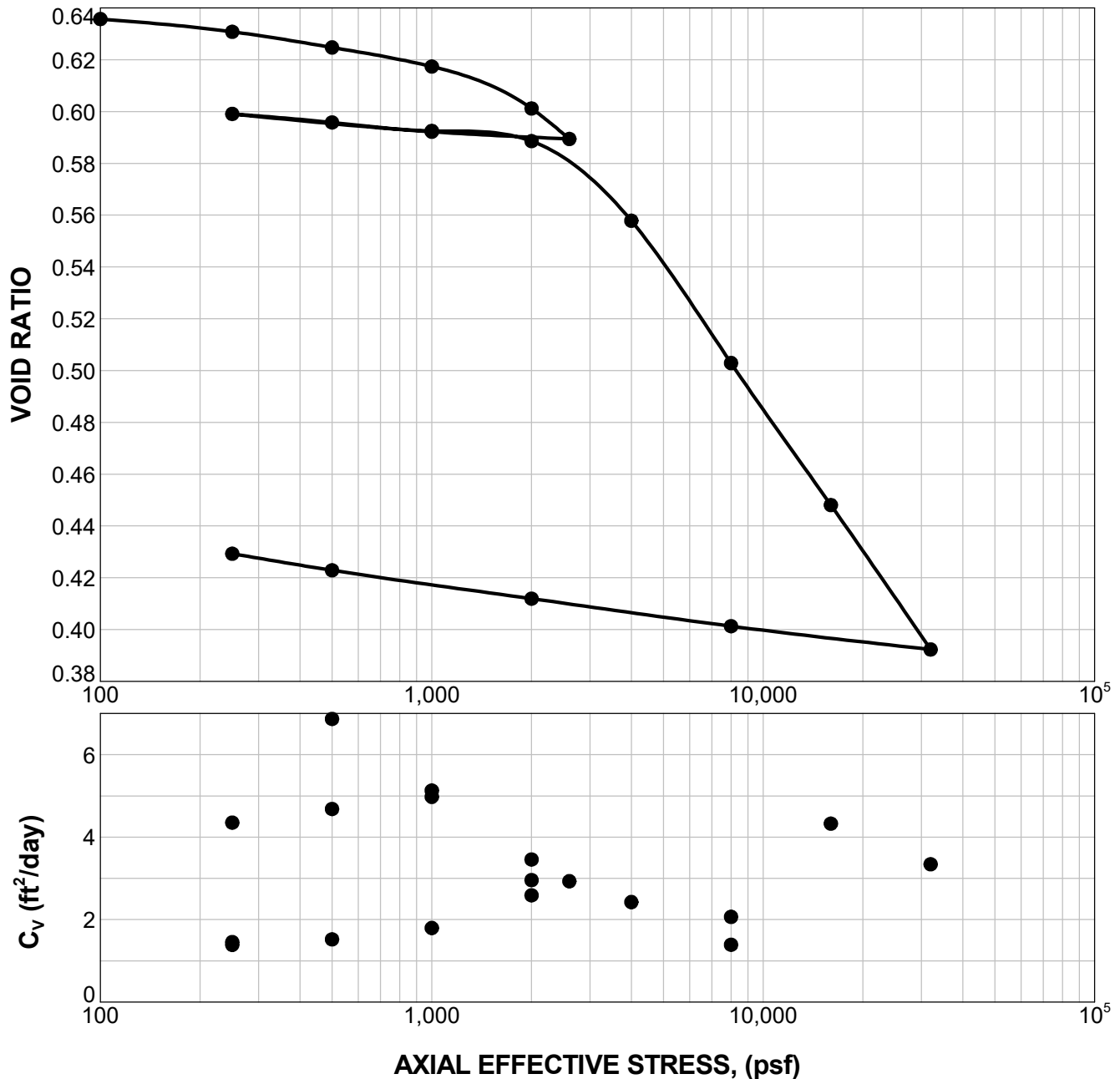
CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/25/22

521 Clemson Road
Columbia, SC



CONSOLIDATION TEST (D2435)



Natural		Initial Dry Density (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P _c (psf)	C _c (vr / log stress)	C _c (vr / log stress)	Initial Void Ratio
Saturation	Moisture									
59.4 %	14.7 %	97.9	59	36	2.57	2580	2,214	0.185	0.010	0.636
MATERIAL DESCRIPTION									USCS	AASHTO
CLAYEY SAND									SC	A-2-7

NOTES: Percent Fines: 31.1%

Borehole: G-129A Depth: 22 ft Specimen #: ST-2 Date Started: 03/07/2022 Date Completed: 03/28/2022

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

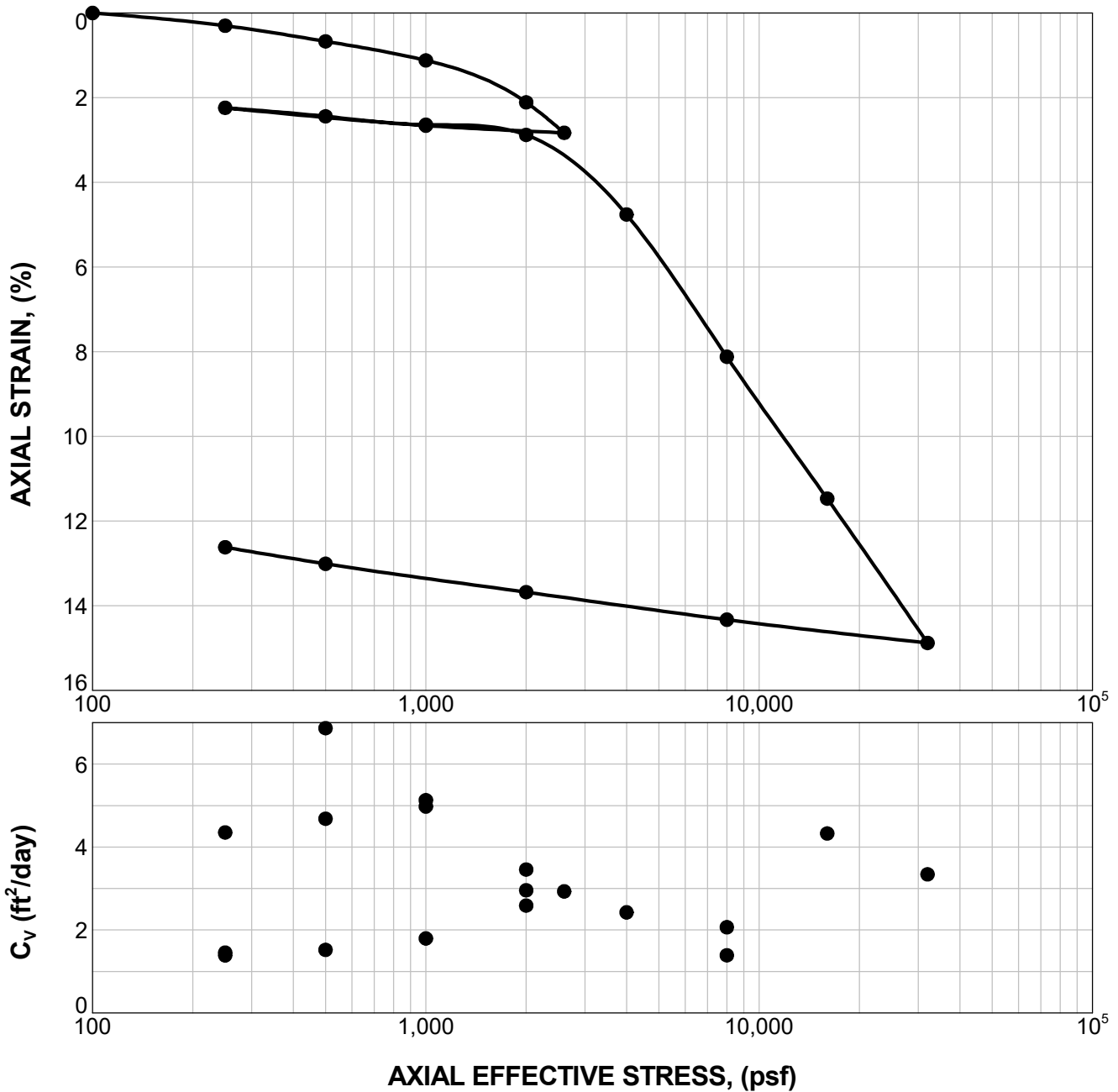
Terracon

521 Clemson Rd
Columbia, SC

PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting &
Engineering, PLLC
Charleston, SC

CONSOLIDATION TEST (D2435)



Natural		Initial Dry Density (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c (% / log stress)	C_u (% / log stress)	Initial Void Ratio
Saturation	Moisture									
59.4 %	14.7 %	97.9	59	36	2.57	2580	2,214	11.328	0.589	0.636

MATERIAL DESCRIPTION									USCS	AASHTO
CLAYEY SAND									SC	A-2-7

NOTES: Percent Fines: 31.1%

Borehole: G-129A Depth: 22 ft Specimen #: ST-2 Date Started: 03/07/2022 Date Completed: 03/28/2022

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

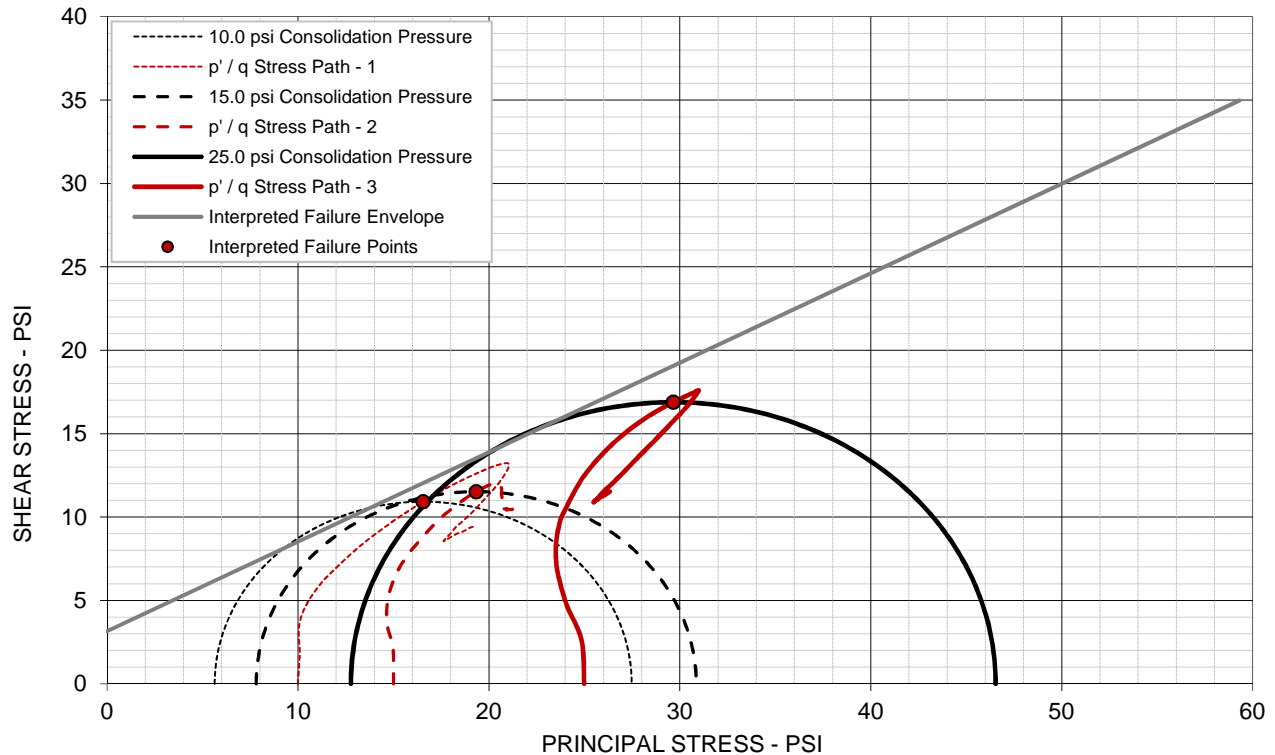
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

ICU TRIAXIAL COMPRESSION TEST

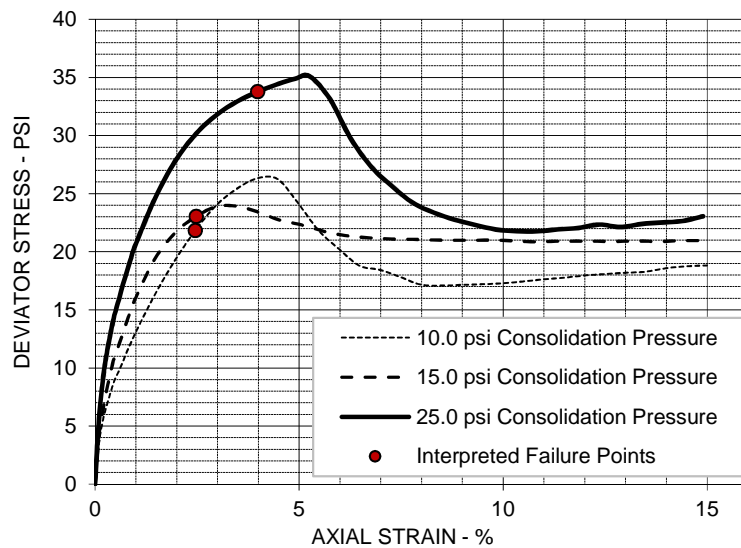
ASTM D4767 / AASHTO T297

Failure Criteria: Max Obliquity (s1': s3')



EFFECTIVE STRESS PARAMETERS

$\phi' = 28.2$ deg $c' = 3.2$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	36.4	36.4	36.4
Dry Density - pcf	81.1	84.4	85.1
Diameter - inches	2.90	2.85	2.86
Height - inches	5.96	5.95	5.95

AT TEST

Final Moisture - %	41.4	40.4	36.7
Dry Density - pcf	82.0	86.4	87.9
Calculated Diameter (in.)	2.89	2.82	2.83
Height - inches	5.94	5.89	5.87
Effect. Consol. Stress - psi	10.0	15.0	25.0
Failure Stress - psi	21.84	23.04	33.76
Total Pore Pressure - psi	54.4	57.2	62.2
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	2.5	2.5	4.0
σ_1' Failure - psi	27.48	30.86	46.54
σ_3' Failure - psi	5.64	7.81	12.77

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Undisturbed

DESCRIPTION: Elastic Silt with Sand (MH) / A-7-5 (17)

SAMPLE ID: G-138 22-24' ST-1

SPECIFIC GRAVITY: 2.65

LL: 55 PL: 38 PI: 17 Percent -200: 81.4%

Remarks:

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

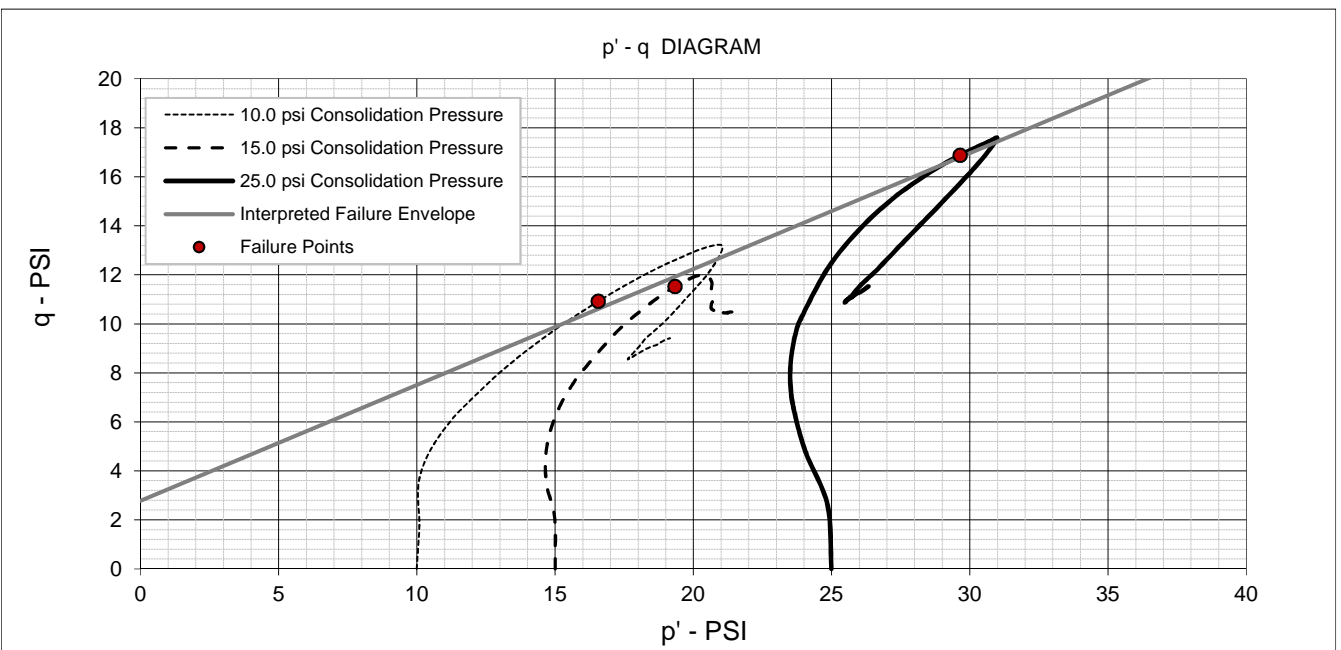
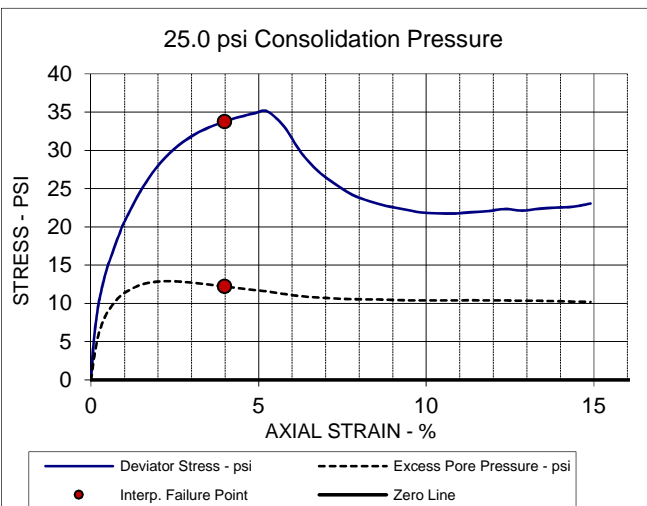
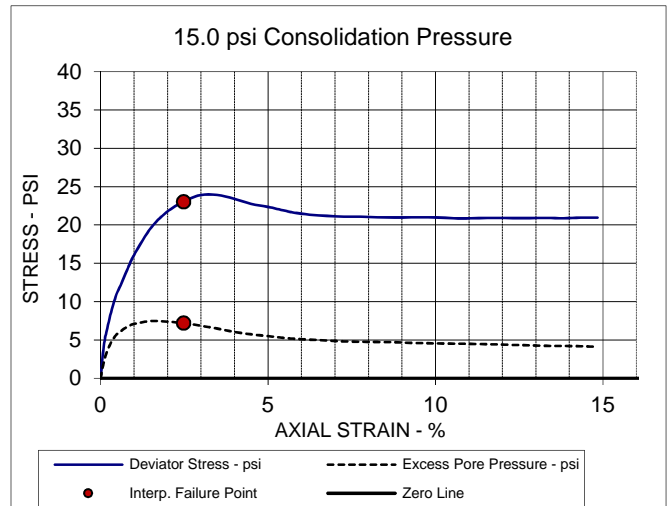
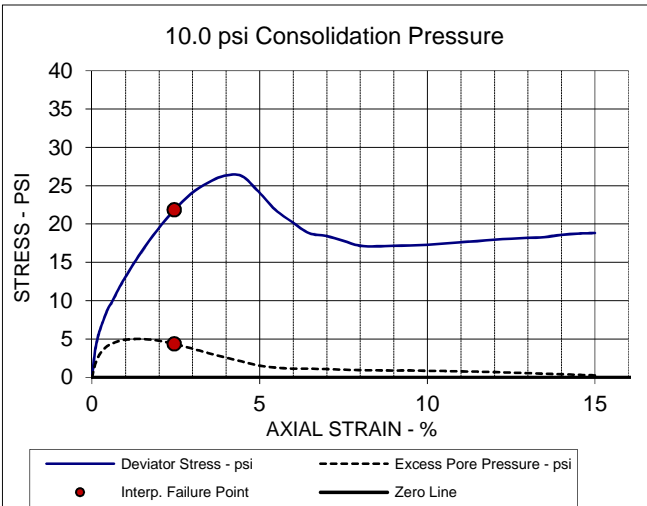
PROJECT #: 73225031


CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/25/22

521 Clemson Road
Columbia, SC



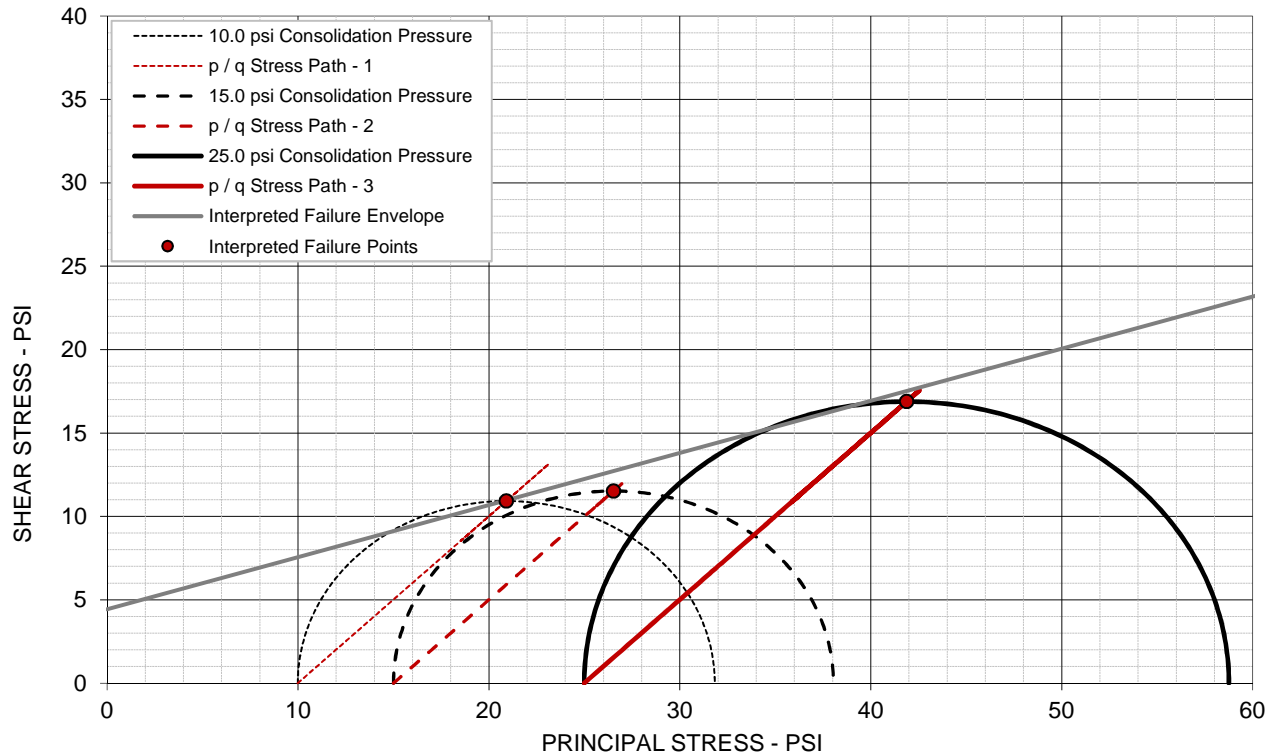


EFFECTIVE STRESS PARAMETERS		R ² = 0.99	α = 25.3 deg	a = 2.8 psi
PROJECT: Carolina Crossroads Phase 2			ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION TEST	
LOCATION: Richland and Lexington Counties, SC			CLIENT: Infrastructure Consulting & Engineering, PLLC	
SAMPLE ID: G-138 22-24' ST-1			521 Clemson Road Columbia, SC 	
DESCRIPTION: Elastic Silt with Sand (MH) / A-7-5 (17)				

ICU TRIAXIAL COMPRESSION TEST

ASTM D4767 / AASHTO T297

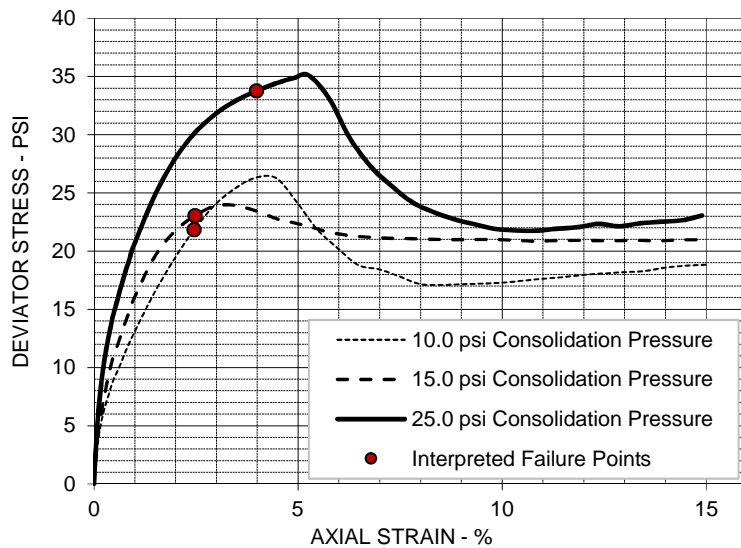
Failure Criteria: Max Obliquity (s1': s3')



TOTAL STRESS PARAMETERS

$\phi = 17.3 \text{ deg}$

$c = 4.4 \text{ psi}$



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	36.4	36.4	36.4
Dry Density - pcf	81.1	84.4	85.1
Diameter - inches	2.90	2.85	2.86
Height - inches	5.96	5.95	5.95

AT TEST

Final Moisture - %	41.4	40.4	36.7
Dry Density - pcf	82.0	86.4	87.9
Calculated Diameter (in.)	2.89	2.82	2.83
Height - inches	5.94	5.89	5.87
Effect. Consol. Stress - psi	10.0	15.0	25.0
Failure Stress - psi	21.84	23.04	33.76
Total Pore Pressure - psi	54.4	57.2	62.2
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	2.5	2.5	4.0
σ_1 Failure - psi	31.83	38.04	58.75
σ_3 Failure - psi	9.99	15.00	24.99

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Undisturbed

DESCRIPTION: Elastic Silt with Sand (MH) / A-7-5 (17)

SAMPLE ID: G-138 22-24' ST-1

SPECIFIC GRAVITY: 2.65

LL: 55 PL: 38 PI: 17 Percent -200: 81.4%

Remarks:

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

PROJECT #: 73225031

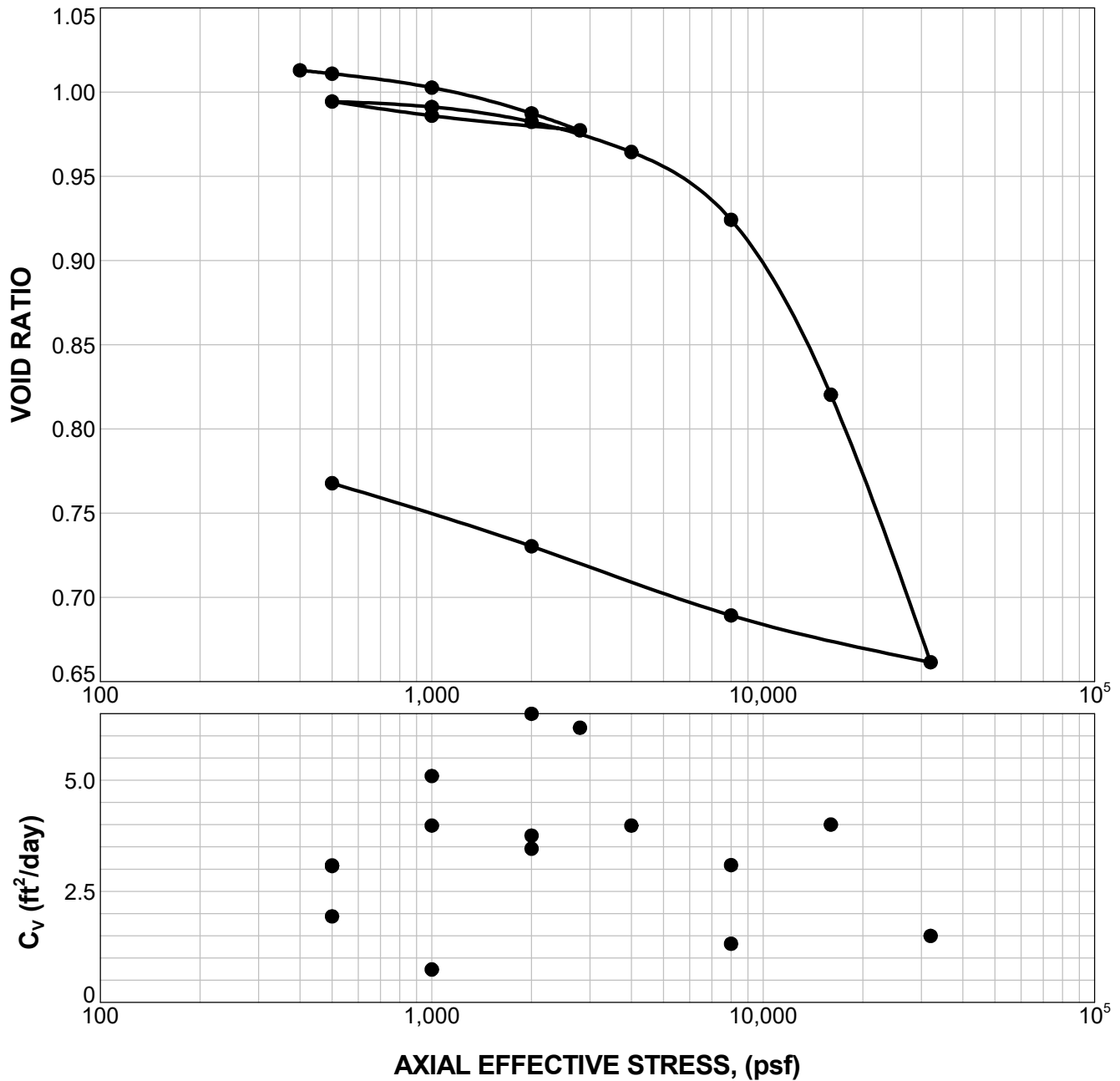
CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/25/22

521 Clemson Road
Columbia, SC



CONSOLIDATION TEST (D2435)



Natural		Initial Dry Density (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c (vr / log stress)	C_c (vr / log stress)	Initial Void Ratio
Saturation	Moisture									
94.7 %	36.4 %	81.6	55	17	2.63	2780	9,339	0.528	0.023	1.013

MATERIAL DESCRIPTION									USCS	AASHTO
ELASTIC SILT with SAND									MH	A-7-5

NOTES: Percent Fines: 81.4%

Borehole: G-138A Depth: 24 ft Specimen #: ST-2 Date Started: 03/10/2022 Date Completed: 03/28/2022

PROJECT: Carolina Crossroads Phase 2

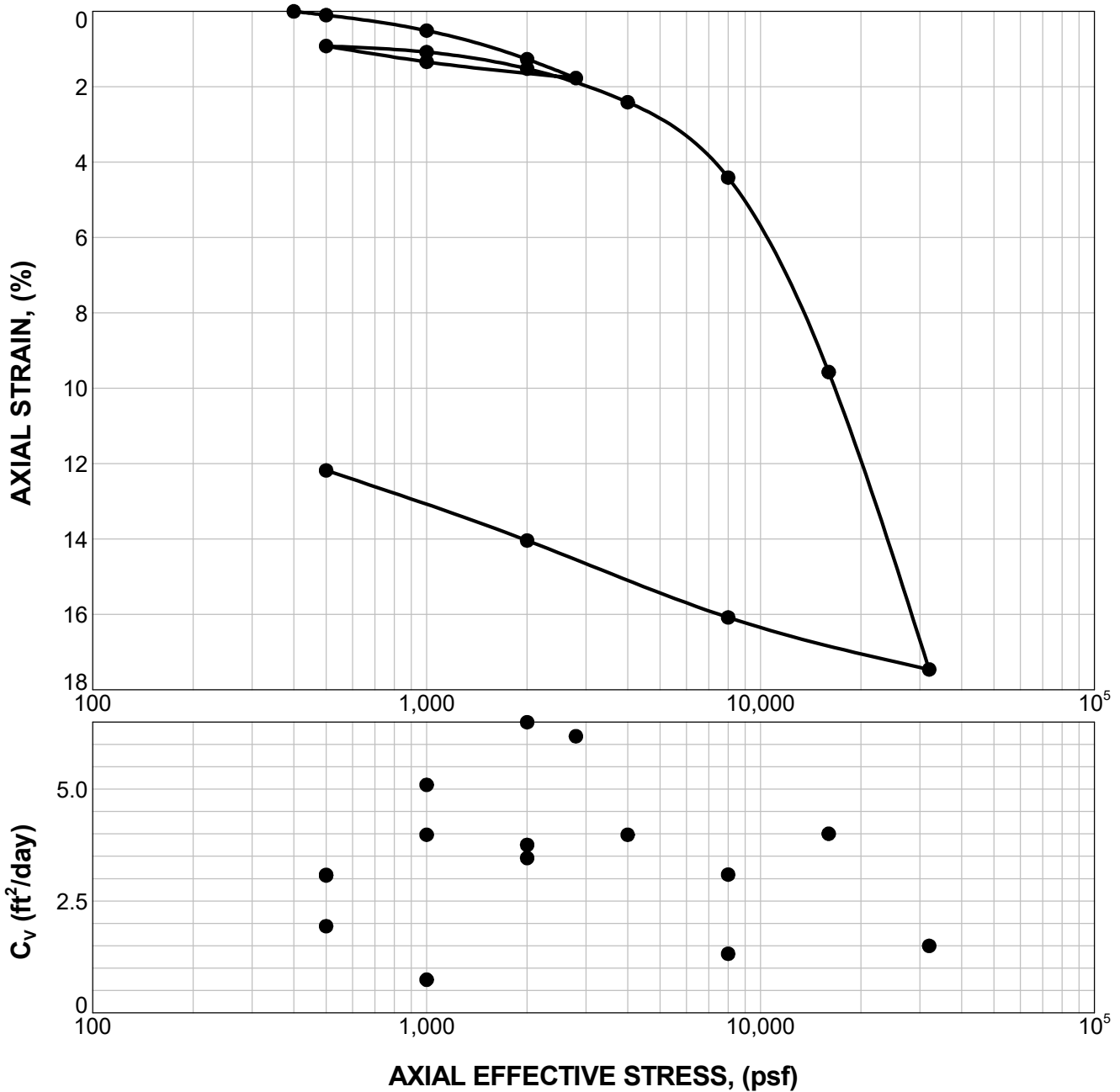
SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting &
Engineering, PLLC
Charleston, SC

CONSOLIDATION TEST (D2435)



Natural		Initial Dry Density (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c (% / log stress)	C_u (% / log stress)	Initial Void Ratio
Saturation	Moisture									
94.7 %	36.4 %	81.6	55	17	2.63	2780	9,339	26.210	1.123	1.013

MATERIAL DESCRIPTION									USCS	AASHTO
ELASTIC SILT with SAND									MH	A-7-5

NOTES: Percent Fines: 81.4%

Borehole: G-138A Depth: 24 ft Specimen #: ST-2 Date Started: 03/10/2022 Date Completed: 03/28/2022

PROJECT: Carolina Crossroads Phase 2	 521 Clemson Rd Columbia, SC	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

750 Pilot Road, Suite F
Las Vegas, Nevada 89119
(702) 597-9393



Client

Infrastructure Consulting & Engineering, PLLC

Project

Carolina Crossroads Phase 1

Sample Submitted By: Terracon (73)

Date Received: 3/4/2022

Lab No.: 22-0219

Results of Corrosion Analysis

Sample Number	--	--
Sample Location	G-138	G-129
Sample Depth (ft.)	0.0-7.0	0.0-5.0
pH Analysis, ASTM G 51	6.38	6.48
Water Soluble Sulfate (SO ₄), ASTM C 1580 (mg/kg)	36	45
Chlorides, ASTM D 512, (mg/kg)	47	30
Saturated Minimum Resistivity, ASTM G 187, (ohm-cm)	24735	34920

Analyzed By:

A handwritten signature in black ink, appearing to read "N. Campo".

Nathan Campo
Engineering Technician II

The tests were performed in general accordance with applicable ASTM and AWWA test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

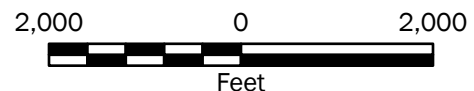
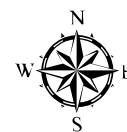
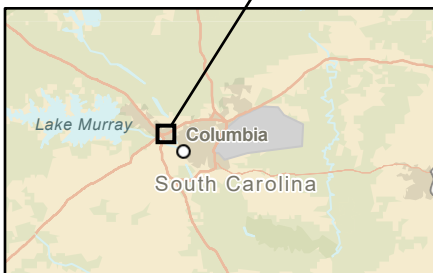
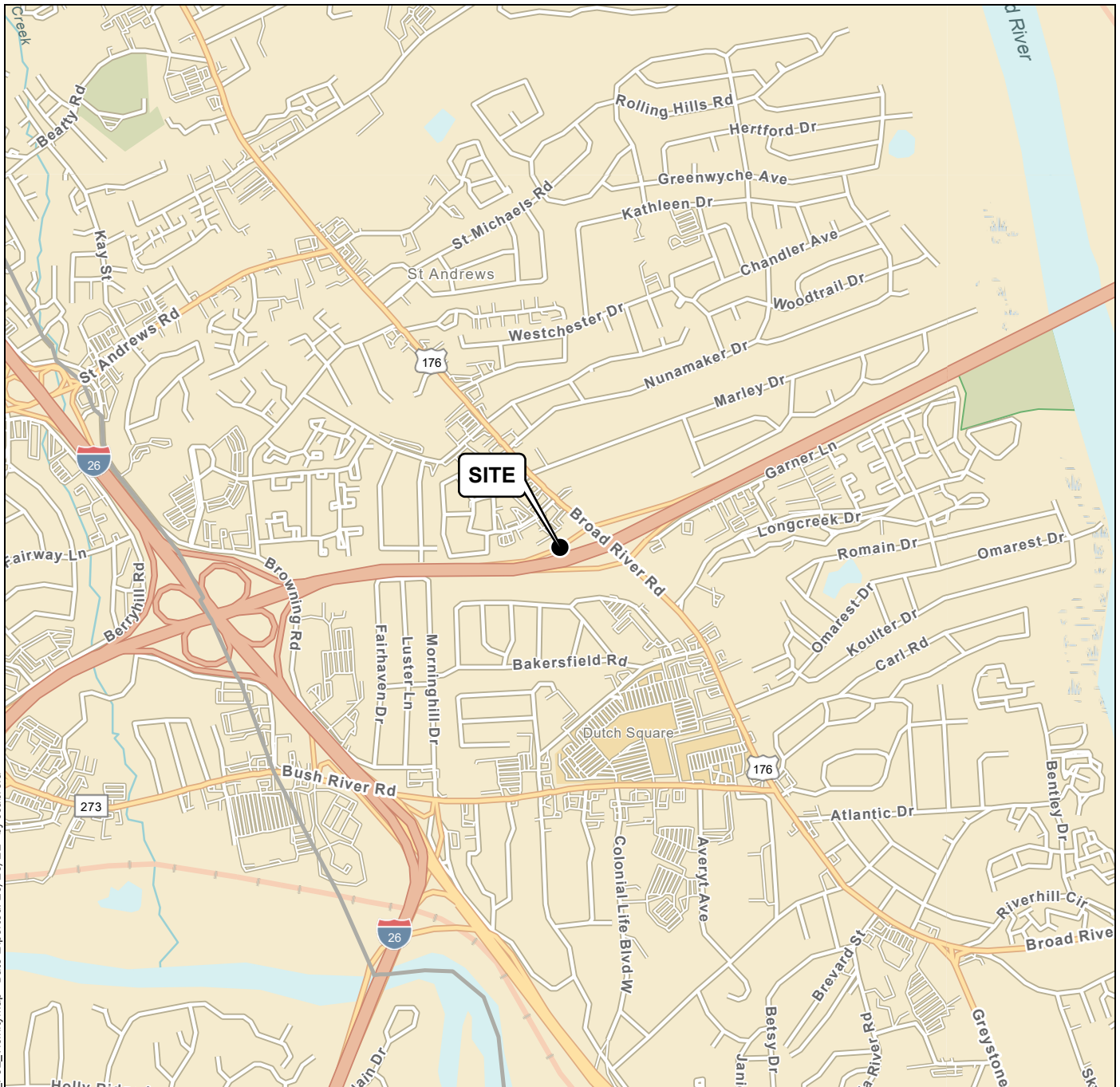
APPENDIX C – BRIDGE 44

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX C – BRIDGE 44

SECTION 1 SITE LOCATION PLAN



Vicinity Map

Carolina Crossroads Phase 2 – Bridge 44
Richland County, South Carolina



Figure 1

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: ESRI

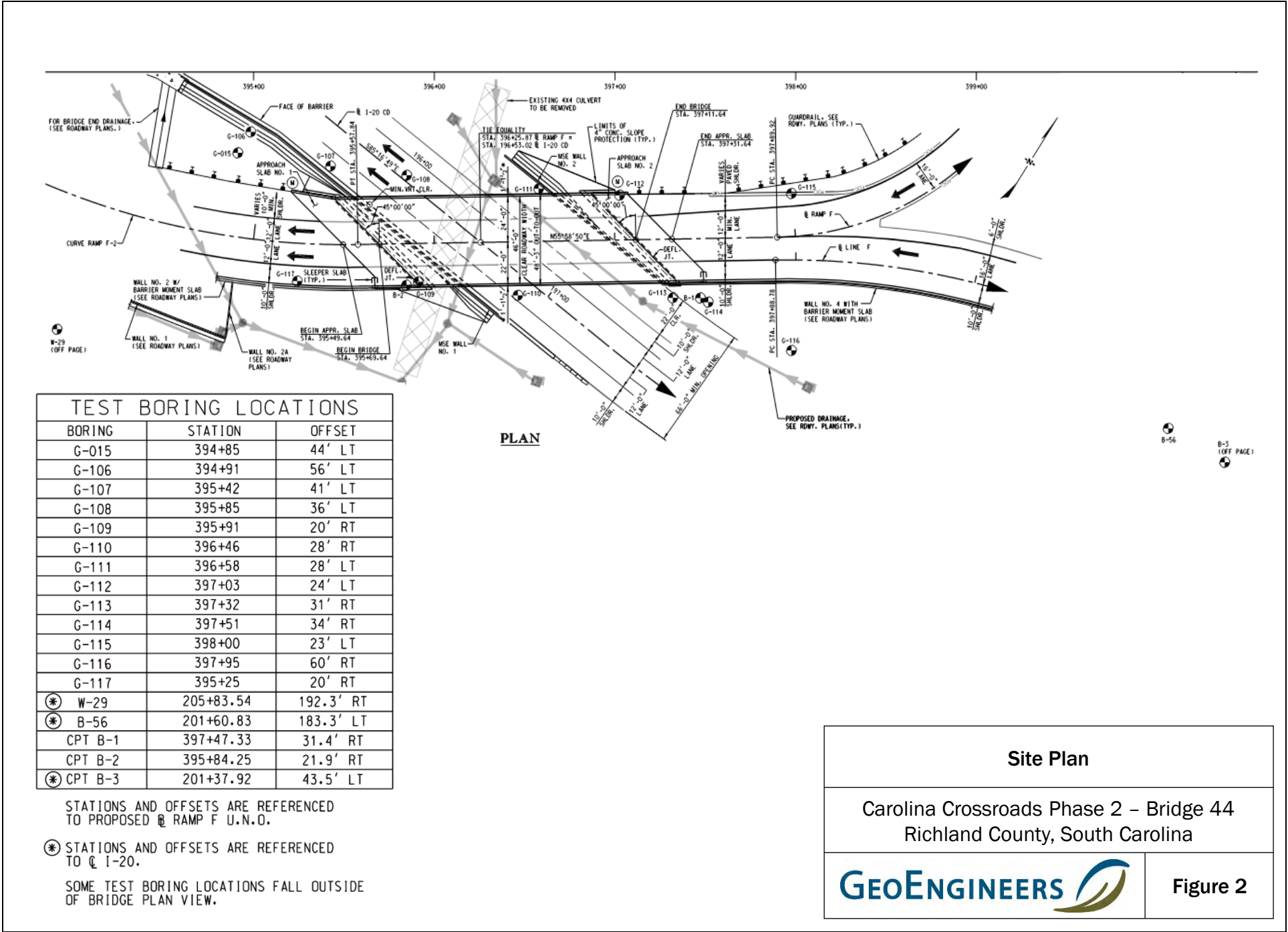
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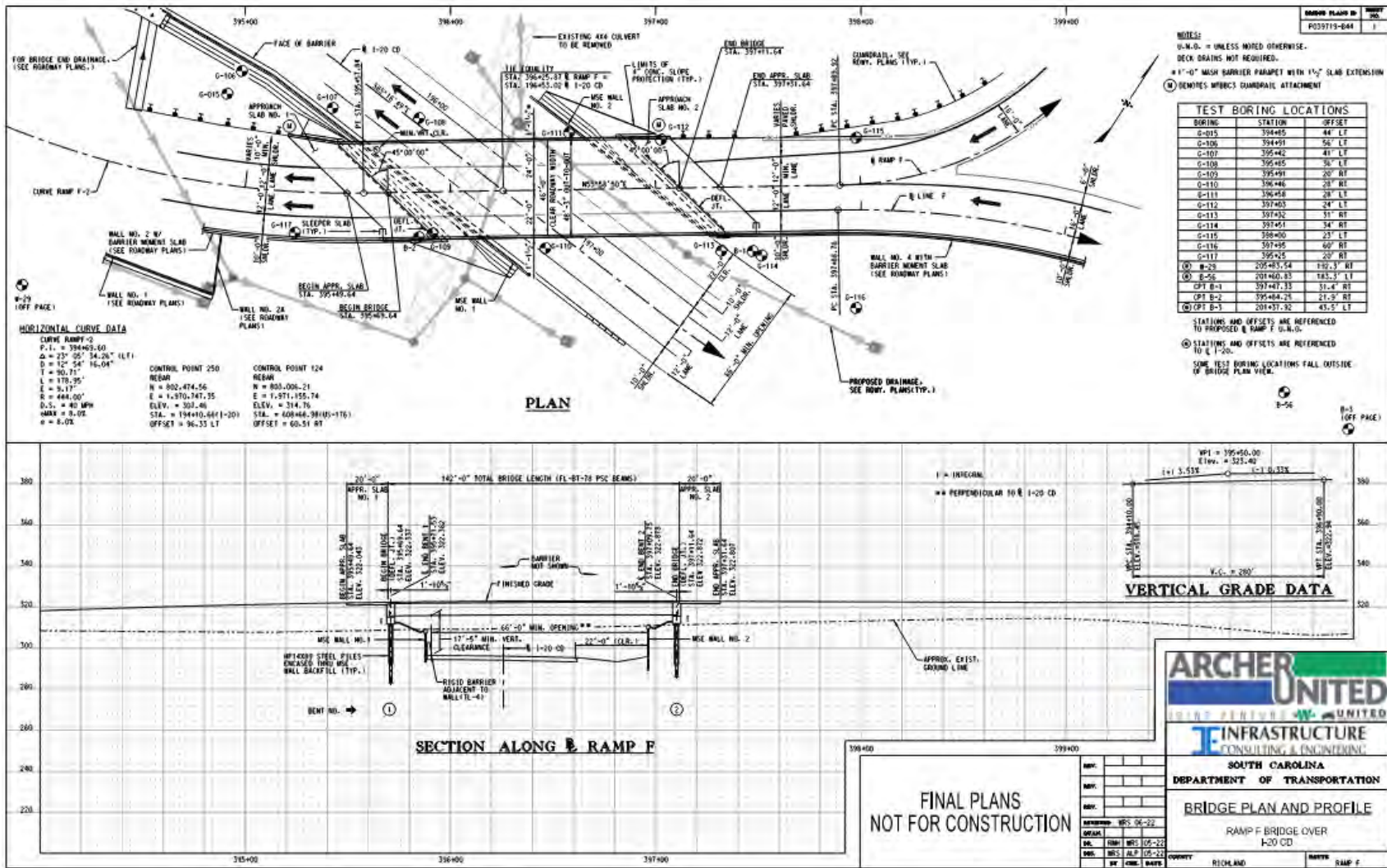
Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX C – BRIDGE 44

SECTION 2 BORING LOCATION PLANS





Bridge 44 Plans - Bridge

Carolina Crossroads Phase 2 – Bridge 44
Richland County, South Carolina



Figure 3a

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX C – BRIDGE 44

SECTION 3 FIELD TESTING LOGS

Carolina Crossroads - Phase 2

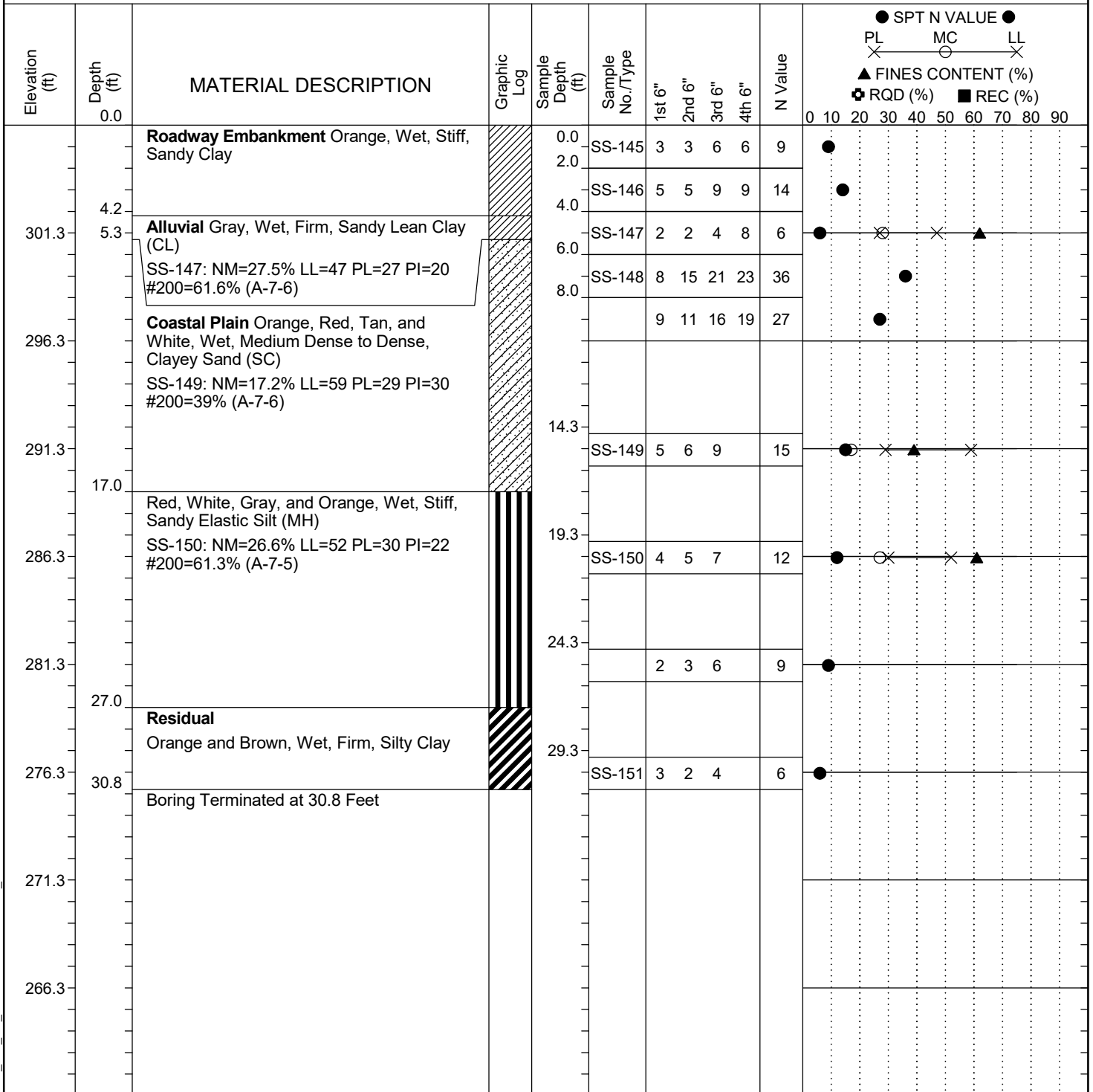
Geotechnical Subsurface Data Report

APPENDIX C – BRIDGE 44

SECTION 3 FIELD TESTING LOGS

SECTION 3A SOIL BORING LOGS

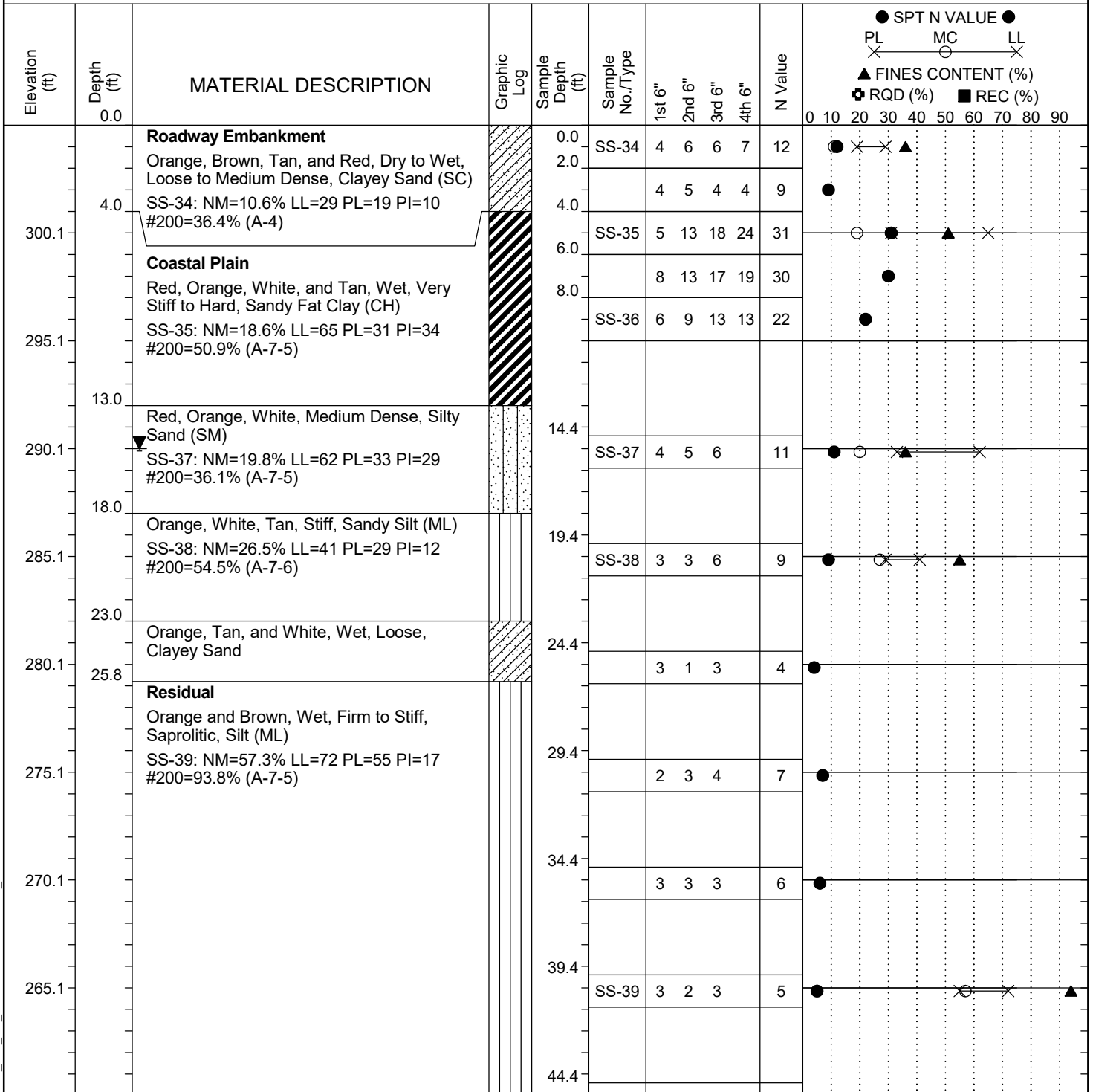
Project ID: P039719				County: Richland		Boring No.: G-015		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: C. McIlroy		Boring Location: 394+85		Offset: 44 LT		Alignment: I20CL		
Elev.: 306.3 ft		Latitude: 34.03913363		Longitude: -81.0963254		Date Started: 3/17/2022		
Total Depth: 30.8 ft		Soil Depth: 30.8 ft		Core Depth: N/A ft		Date Completed: 3/17/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #435		Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 84.4%		
Core Size: N/A		Driller: M. Morgan		Groundwater: TOB N/A		24HR: N/A		



LEGEND

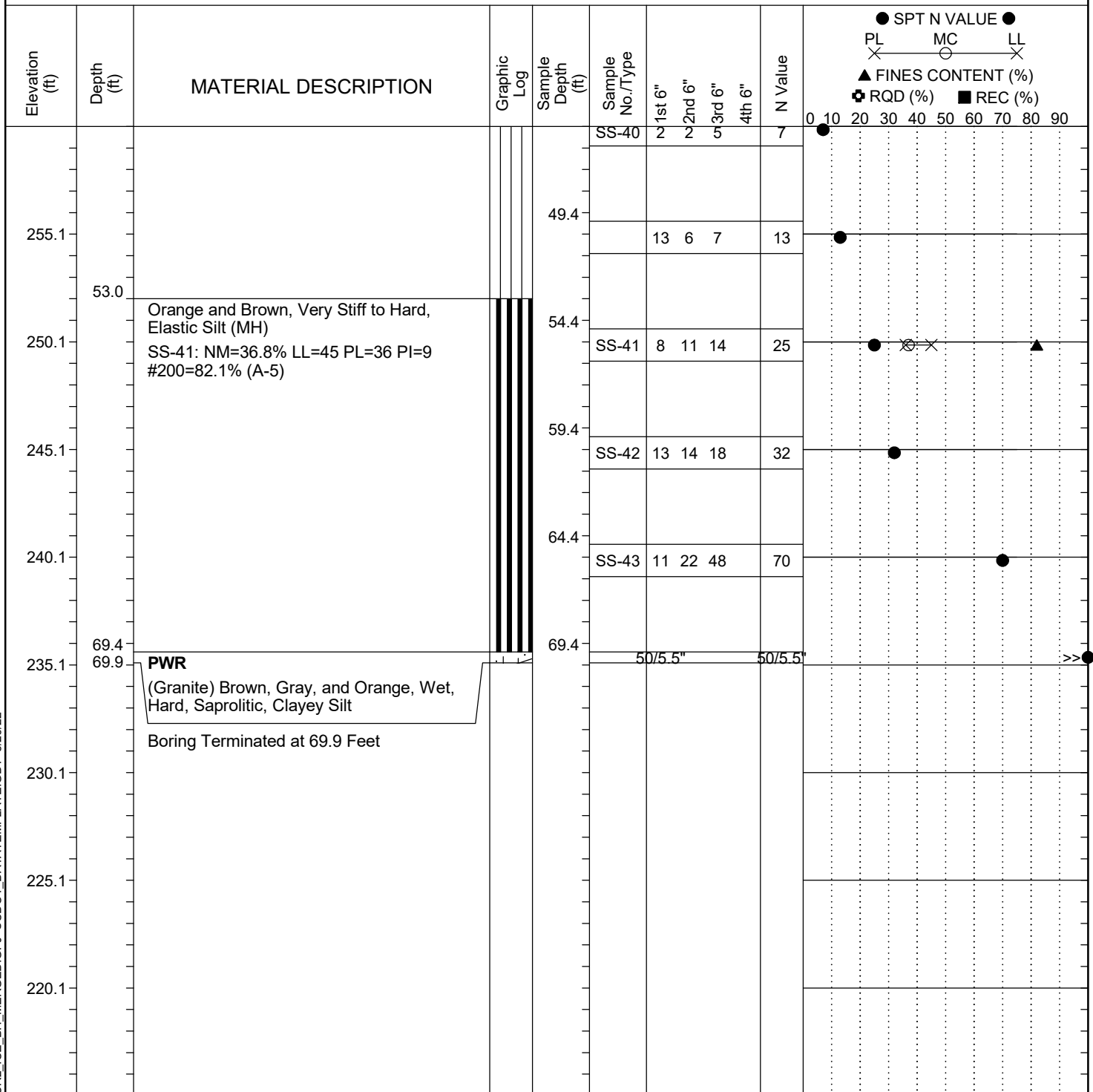
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-106
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	394+91	Offset:	56 LT
Elev.:	305.1 ft	Latitude:	34.03923042	Longitude:	-81.09636541
Total Depth:	69.9 ft	Soil Depth:	69.9 ft	Date Started:	4/28/2022
Core Depth:	N/A ft	Date Completed:	4/28/2022	Alignment:	RAMPF
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	15 ft


LEGEND
Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

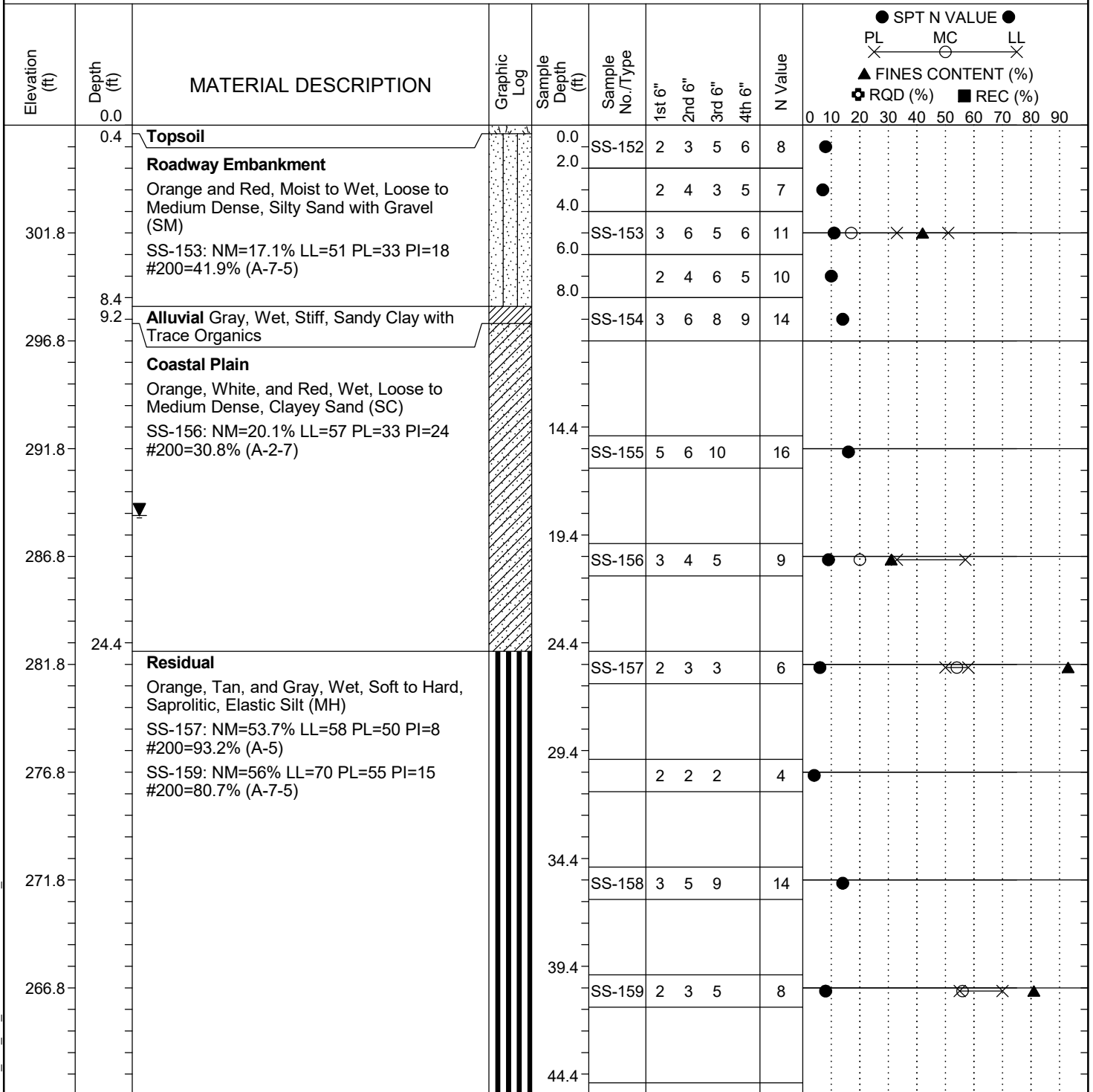
Project ID:	P039719	County:	Richland	Boring No.:	G-106
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	394+91	Offset:	56 LT
Elev.:	305.1 ft	Latitude:	34.03923042	Longitude:	-81.09636541
Total Depth:	69.9 ft	Soil Depth:	69.9 ft	Date Started:	4/28/2022
Core Depth:	N/A ft	Date Completed:	4/28/2022	Alignment:	RAMPF
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	15 ft



LEGEND

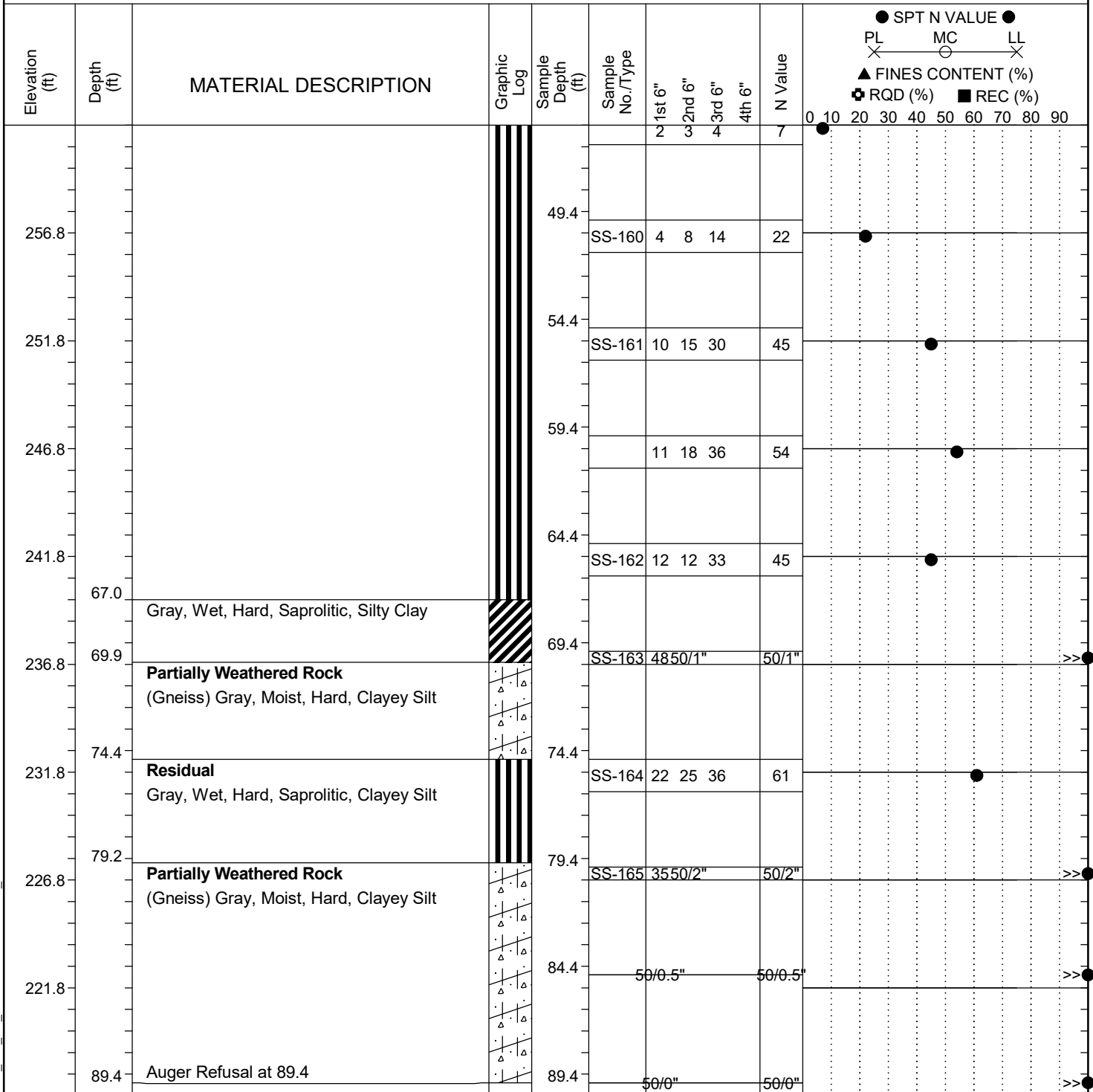
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SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-107
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	395+42	Offset:	41 LT
Elev.:	306.8 ft	Latitude:	34.03920845	Longitude:	-81.09618629
Total Depth:	89.4 ft	Soil Depth:	89.4 ft	Date Started:	3/17/2022
Core Depth:	N/A ft	Date Completed:	3/17/2022	Alignment:	RAMPF
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Energy Ratio:	84.4%
Core Size:	N/A	Driller:	M. Morgan	Groundwater:	TOB N/A
				24HR	18.1 ft


LEGEND
Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

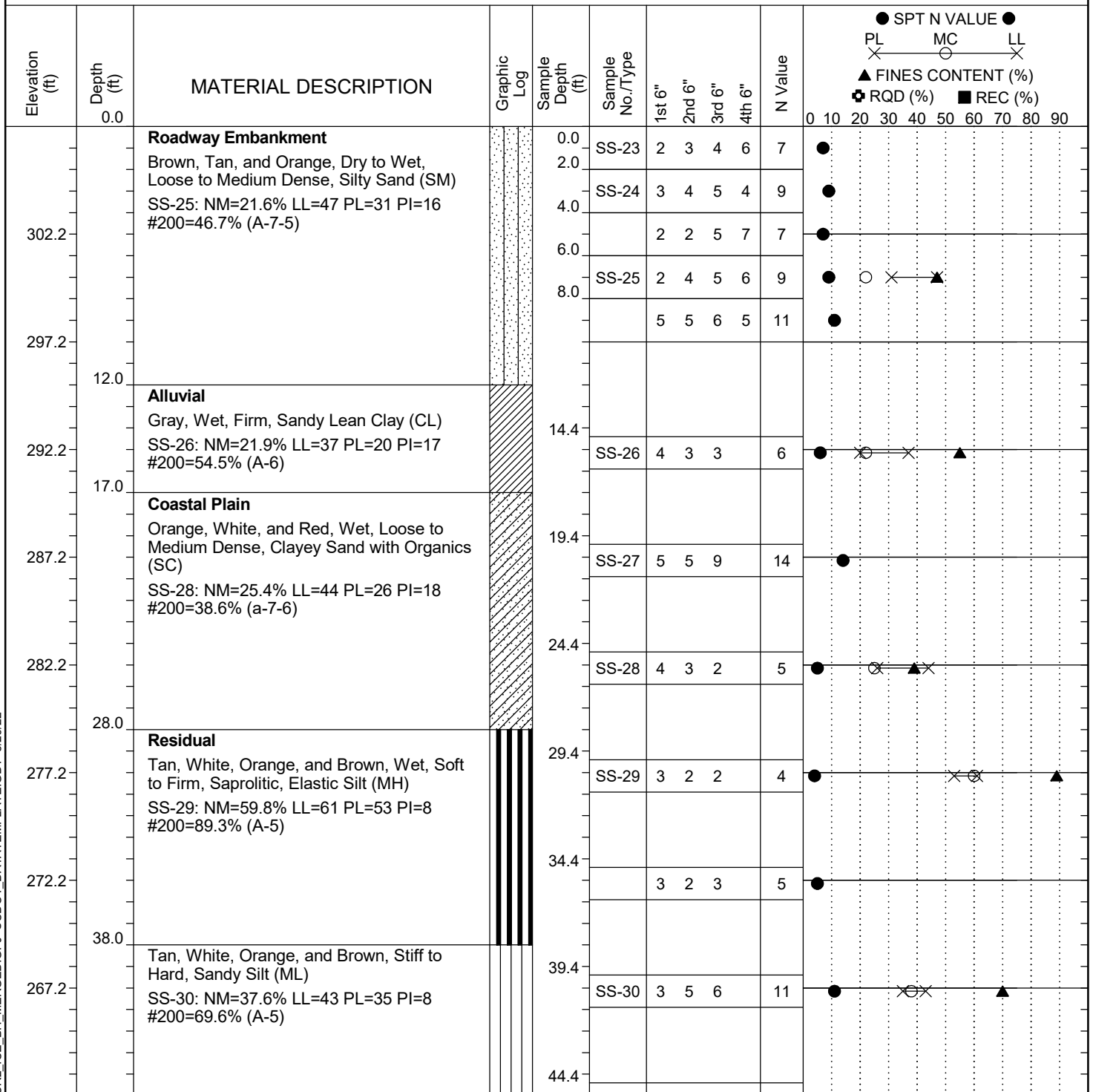
Project ID:	P039719	County:	Richland	Boring No.:	G-107
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	395+42	Offset:	41 LT
Elev.:	306.8 ft	Latitude:	34.03920845	Longitude:	-81.09618629
Total Depth:	89.4 ft	Soil Depth:	89.4 ft	Date Started:	3/17/2022
Core Depth:	N/A ft	Date Completed:	3/17/2022	Alignment:	RAMPF
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Liner Used:	Y (N)
Hammer Type:	Automatic	Energy Ratio:	84.4%		
Core Size:	N/A	Driller:	M. Morgan	Groundwater:	TOB N/A
		24HR	18.1 ft		



LEGEND

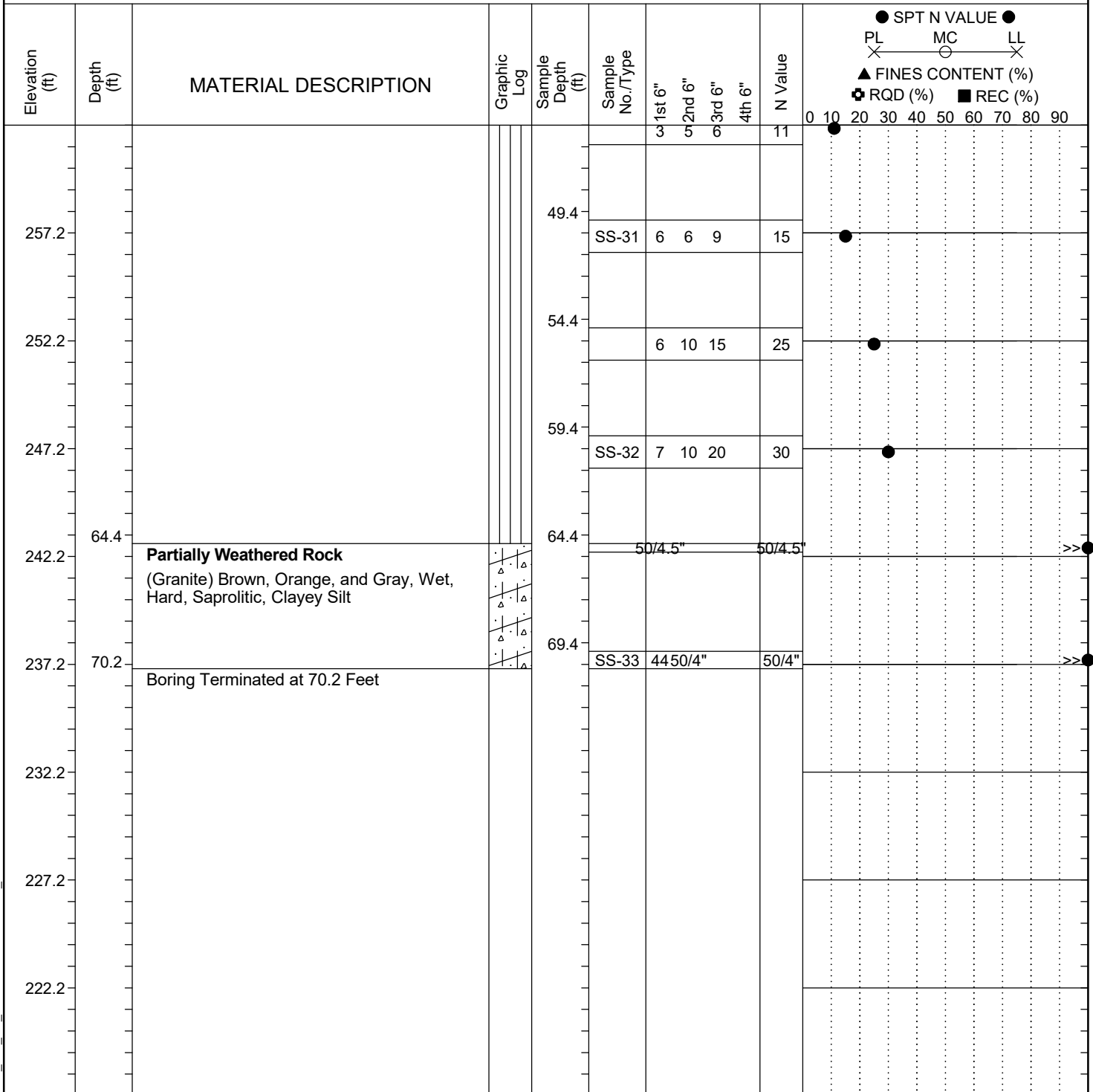
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-108
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	395+85	Offset:	36 LT
Elev.:	307.2 ft	Latitude:	34.03923212	Longitude:	-81.09603626
Total Depth:	70.2 ft	Soil Depth:	70.2 ft	Date Started:	4/28/2022
Core Depth:	N/A ft	Date Completed:	4/28/2022	Alignment:	RAMPF
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	19.1 ft


LEGEND
Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

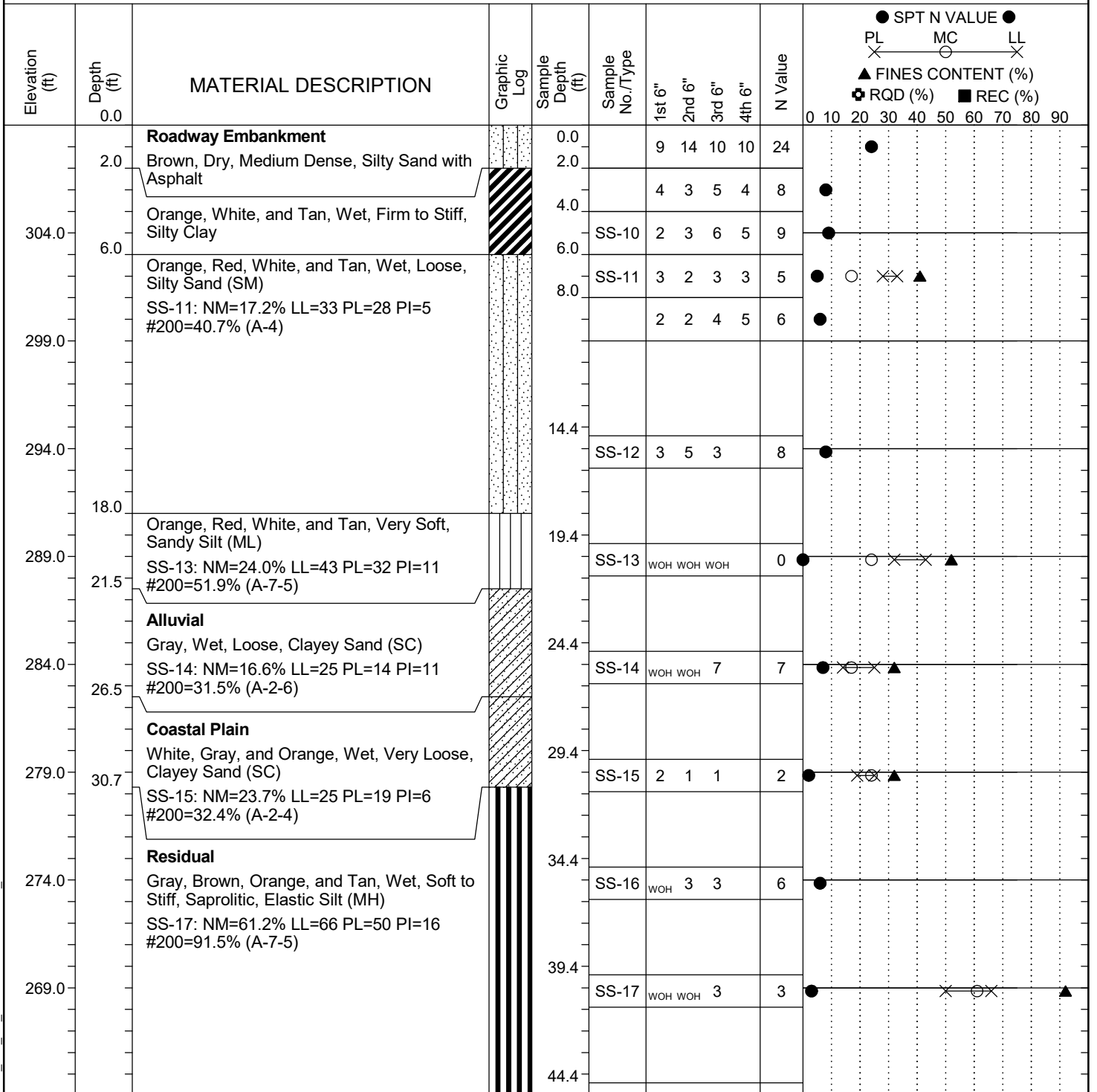
Project ID:	P039719	County:	Richland	Boring No.:	G-108
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	395+85	Offset:	36 LT
Elev.:	307.2 ft	Latitude:	34.03923212	Longitude:	-81.09603626
Date Started:	4/28/2022				
Total Depth:	70.2 ft	Soil Depth:	70.2 ft	Core Depth:	N/A ft
Date Completed:	4/28/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
24HR	19.1 ft				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-109
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	395+91	Offset:	20 RT
Elev.:	309.0 ft	Latitude:	34.03917627	Longitude:	-81.09593509
Total Depth:	84.6 ft	Soil Depth:	84.6 ft	Date Started:	4/27/2022
Core Depth:	N/A ft	Date Completed:	4/27/2022	Alignment:	RAMPF
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	Cave @ 8'



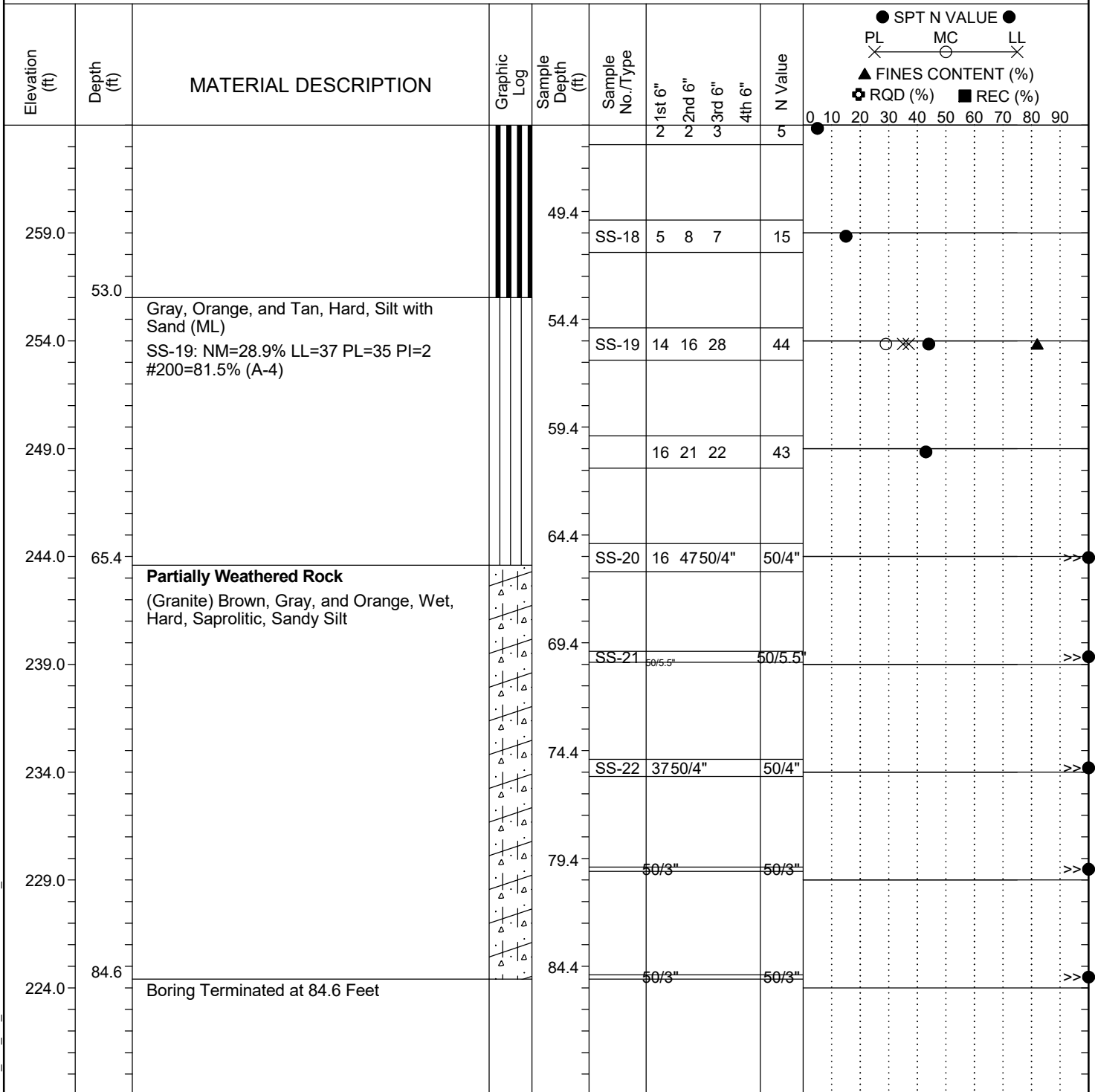
LEGEND

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SC_DOT 20-01_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 5/26/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

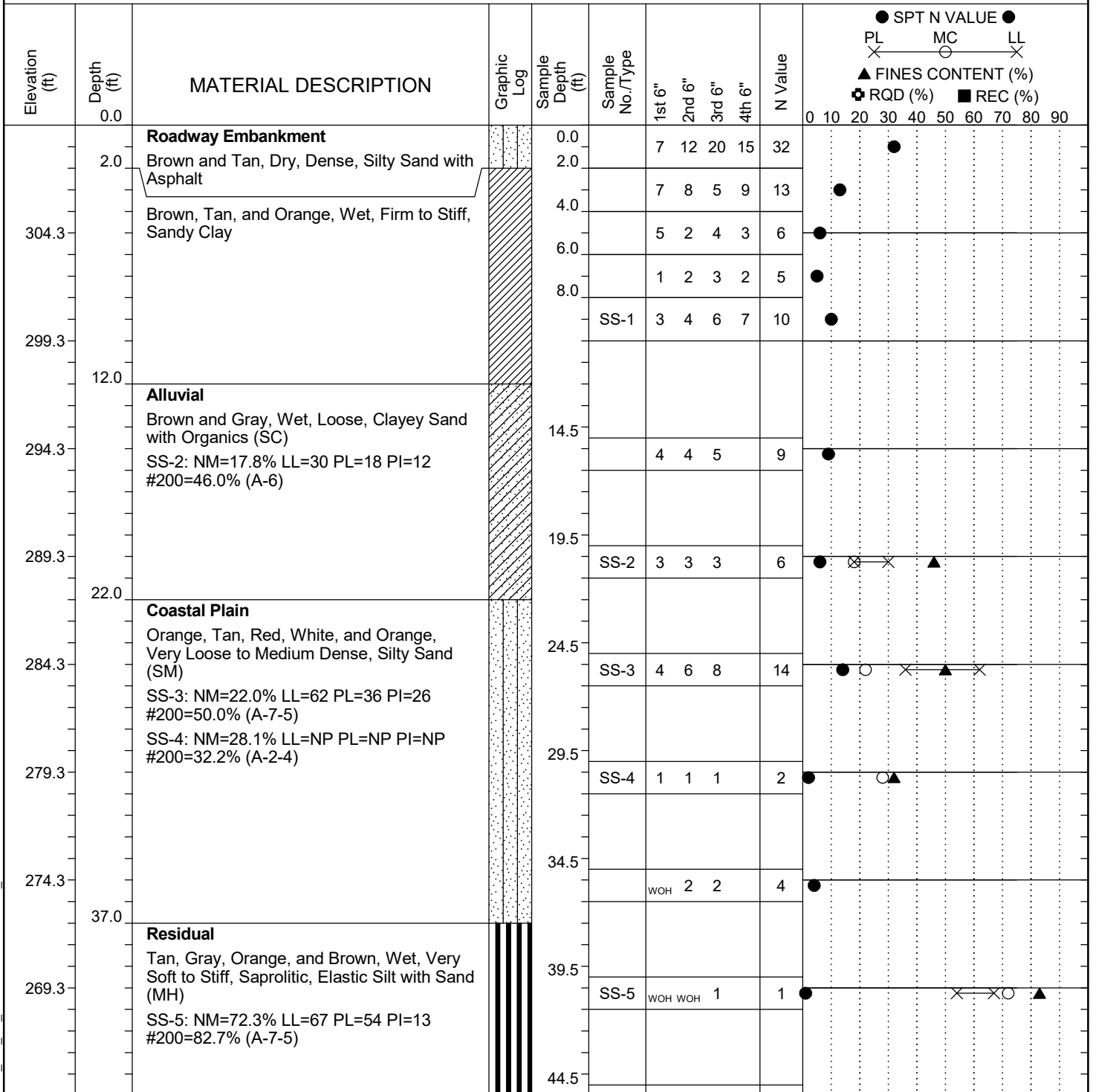
Project ID:	P039719	County:	Richland	Boring No.:	G-109
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	395+91	Offset:	20 RT
Elev.:	309.0 ft	Latitude:	34.03917627	Longitude:	-81.09593509
Total Depth:	84.6 ft	Soil Depth:	84.6 ft	Date Started:	4/27/2022
Core Depth:	N/A ft	Date Completed:	4/27/2022	Alignment:	RAMPF
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	90.8%
Driller:	R. Cassell	Groundwater:	TOB	24HR	Cave @ 8'



LEGEND

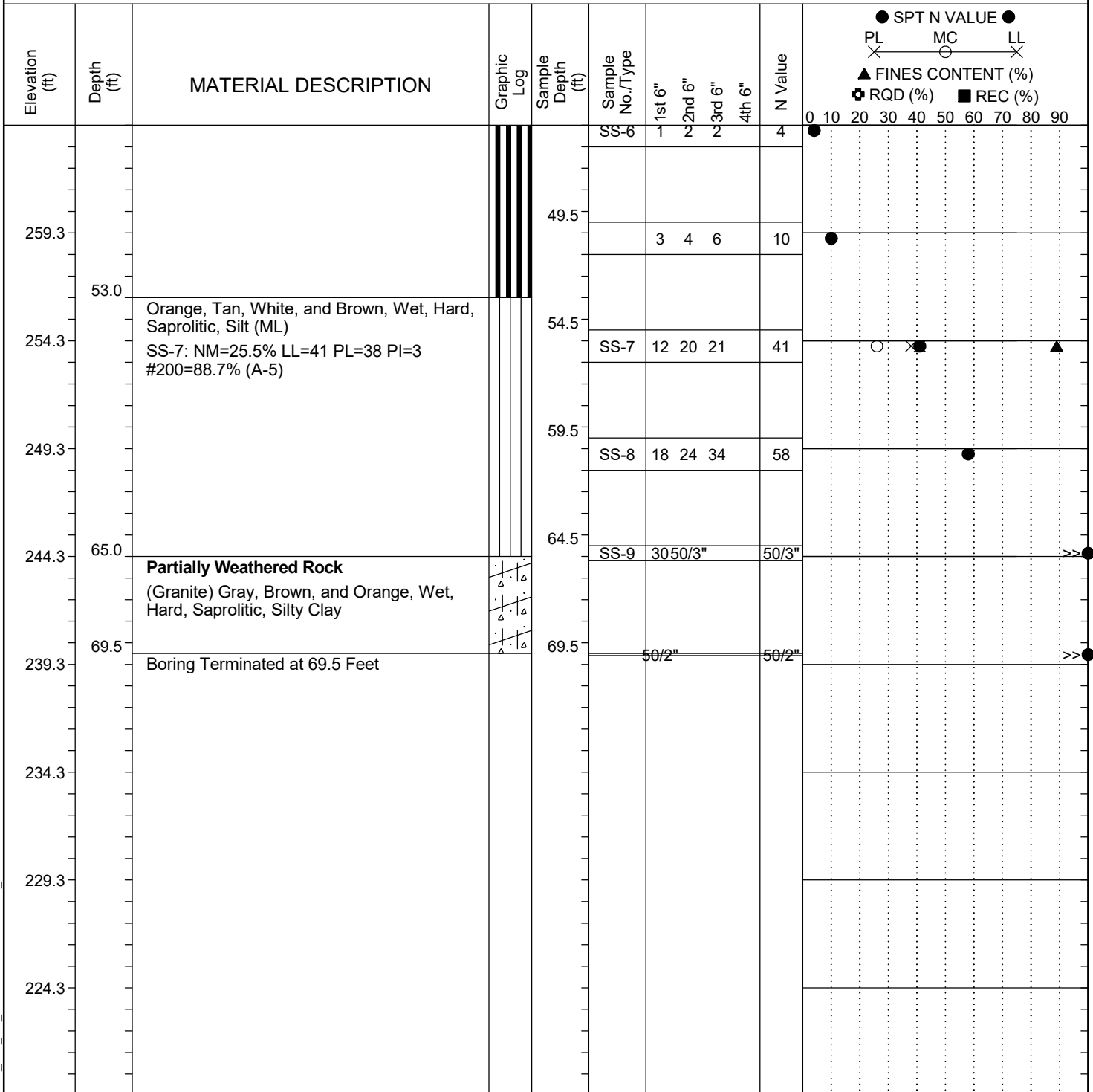
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-110
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	396+46	Offset:	28 RT
Elev.:	309.3 ft	Latitude:	34.03921449	Longitude:	-81.09577882
Total Depth:	69.6 ft	Soil Depth:	69.6 ft	Date Started:	4/26/2022
Core Depth:	N/A ft	Date Completed:	4/26/2022	Alignment:	RAMPF
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	23.5 ft


LEGEND
Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

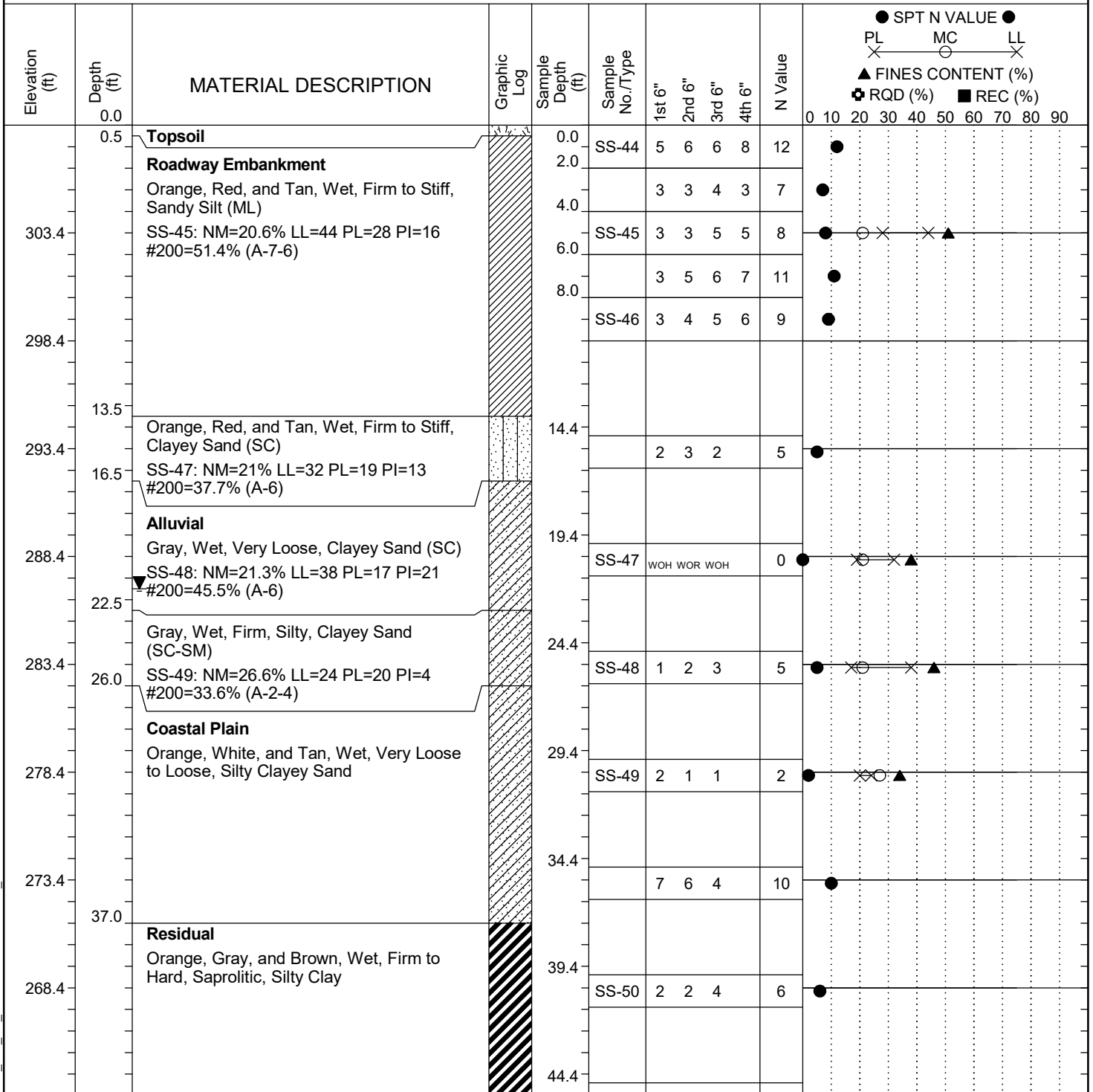
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Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	396+46	Offset:	28 RT
Elev.:	309.3 ft	Latitude:	34.03921449	Longitude:	-81.09577882
Total Depth:	69.6 ft	Soil Depth:	69.6 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	23.5 ft



LEGEND

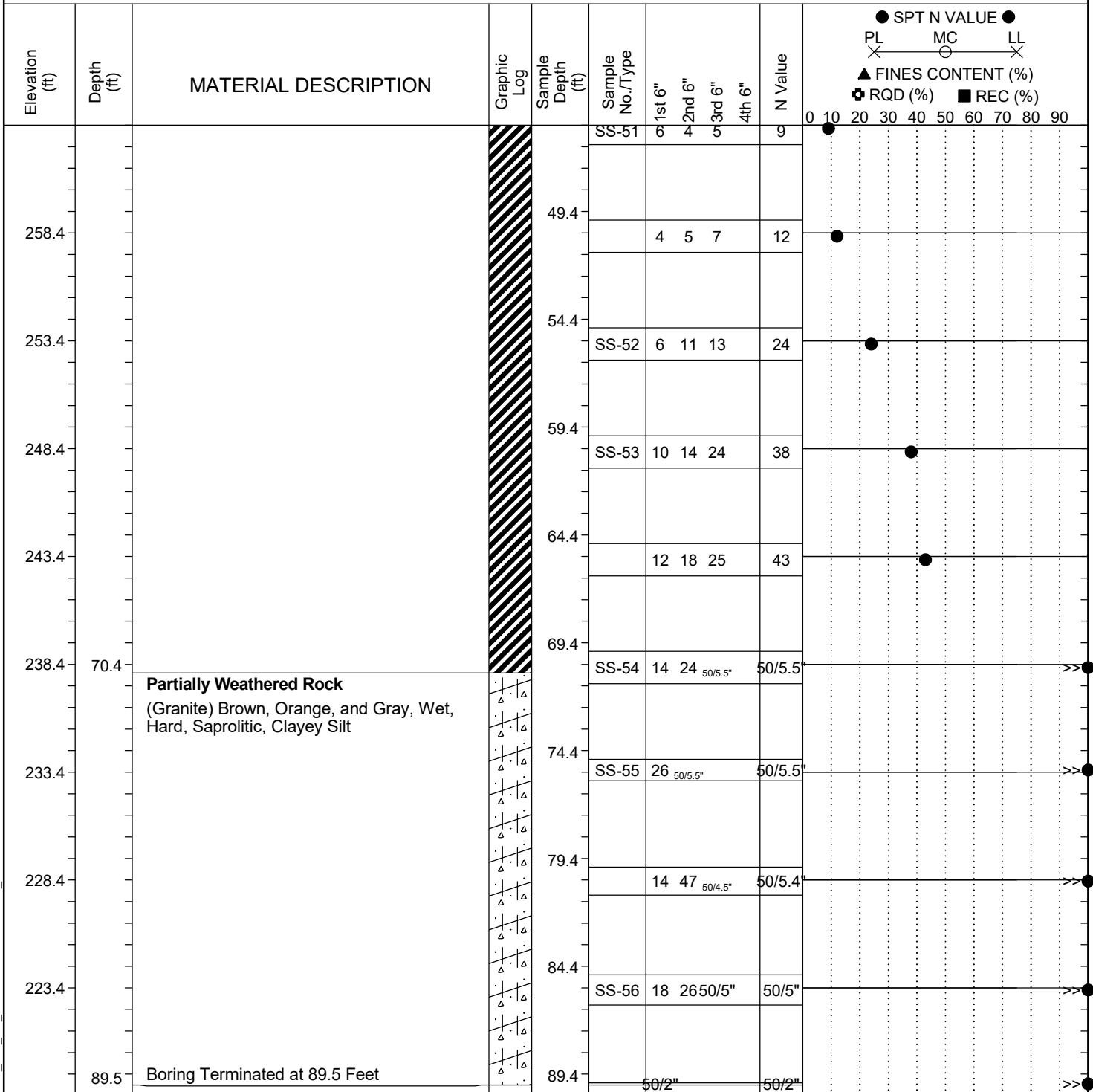
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID: P039719				County: Richland		Boring No.: G-111		
Site Description:		Carolina Crossroads Phase 2					Route:	Ramp
Eng./Geo.: C. McIlroy		Boring Location: 396+58		Offset: 28 LT		Alignment:		RAMPF
Elev.: 308.4 ft	Latitude: 34.03937037	Longitude: -81.09584966		Date Started:		5/3/2022		
Total Depth: 89.5 ft	Soil Depth: 89.5 ft	Core Depth: N/A ft		Date Completed:		5/3/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #439	Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 90.8%			
Core Size: N/A	Driller: R. Cassell		Groundwater: TOB N/A		24HR: 21.5 ft			


LEGEND
Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

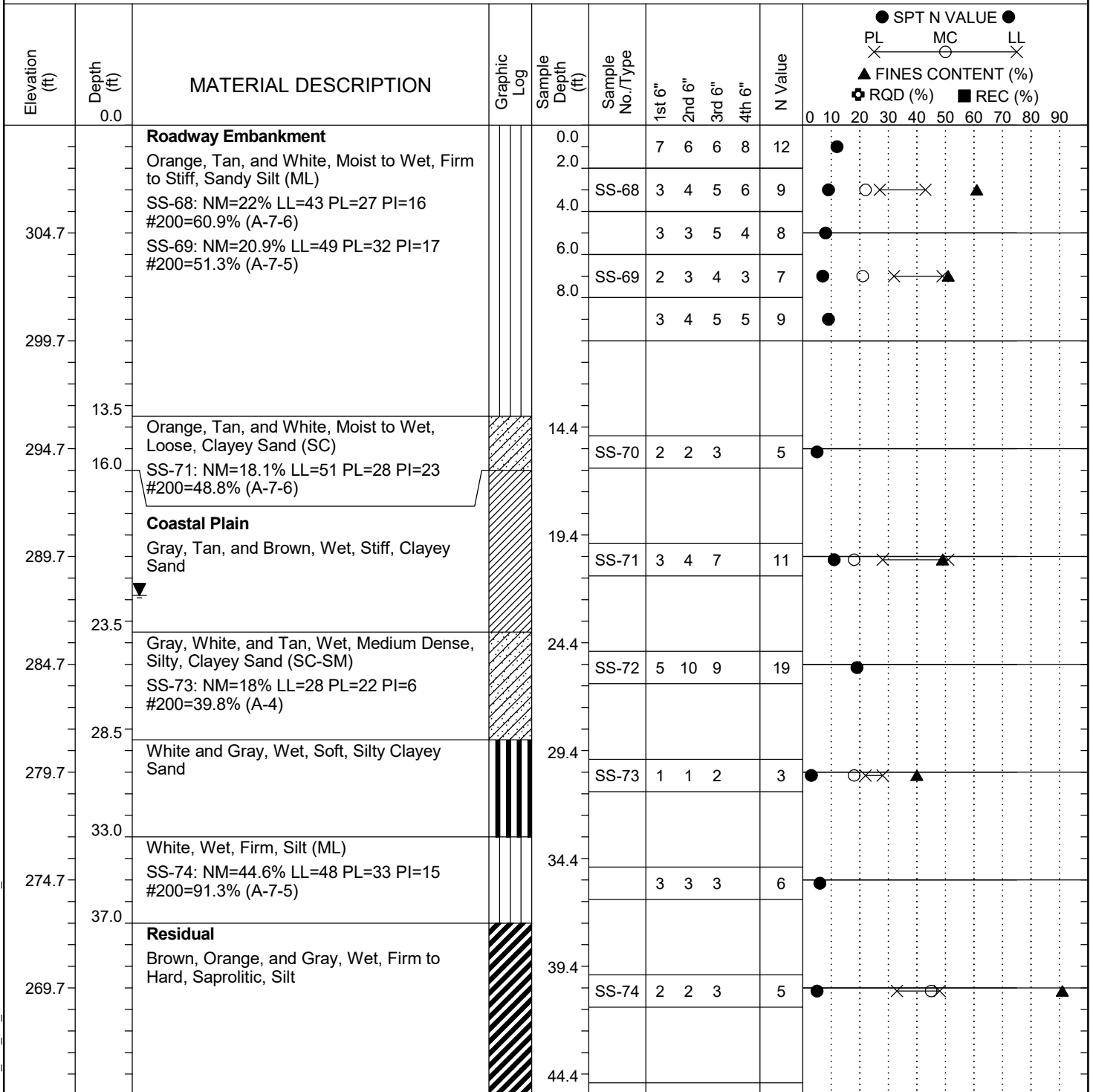
Project ID:	P039719	County:	Richland	Boring No.:	G-111
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	396+58	Offset:	28 LT
Elev.:	308.4 ft	Latitude:	34.03937037	Longitude:	-81.09584966
Total Depth:	89.5 ft	Soil Depth:	89.5 ft	Date Started:	5/3/2022
Core Depth:	N/A ft	Date Completed:	5/3/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	21.5 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-112
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	397+03	Offset:	24 LT
Elev.:	309.7 ft	Latitude:	34.039457	Longitude:	-81.09576062
Total Depth:	70.3 ft	Soil Depth:	70.3 ft	Date Started:	5/4/2022
Core Depth:	N/A ft	Date Completed:	5/4/2022	Alignment:	RAMPF
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	21.8 ft



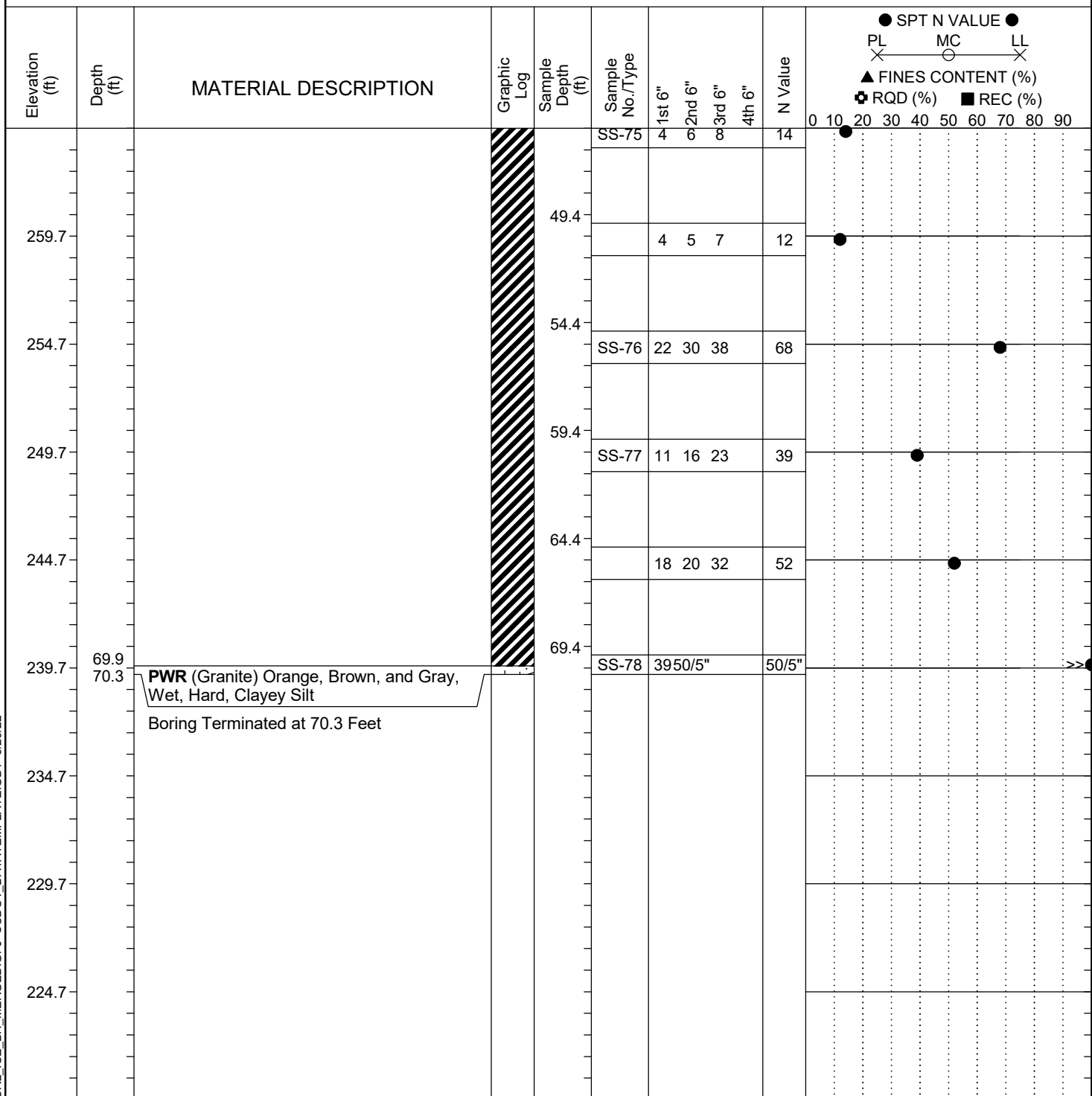
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SC_DOT 20-01_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 5/26/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

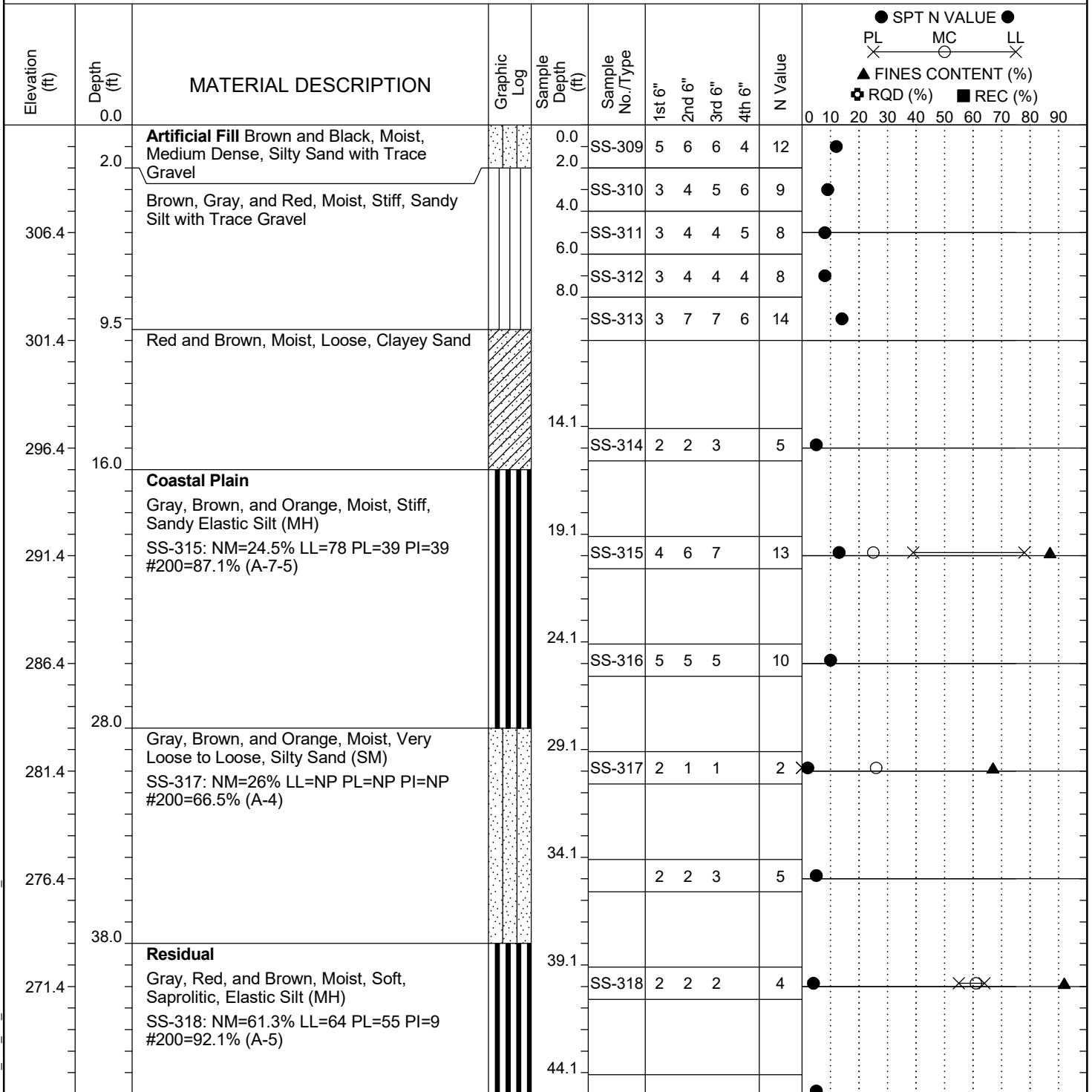
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Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	397+03	Offset:	24 LT
Elev.:	309.7 ft	Latitude:	34.039457	Longitude:	-81.09576062
Total Depth:	70.3 ft	Soil Depth:	70.3 ft	Date Started:	5/4/2022
Core Depth:	N/A ft	Date Completed:	5/4/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	21.8 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-113
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	M. Stanbury	Boring Location:	397+32	Offset:	31 RT
Elev.:	311.4 ft	Latitude:	34.03934678	Longitude:	-81.09556744
Total Depth:	84.9 ft	Soil Depth:	84.9 ft	Date Started:	3/9/2022
Core Depth:	N/A ft	Date Completed:	3/9/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	N/A	24HR
					Cave @ 99'



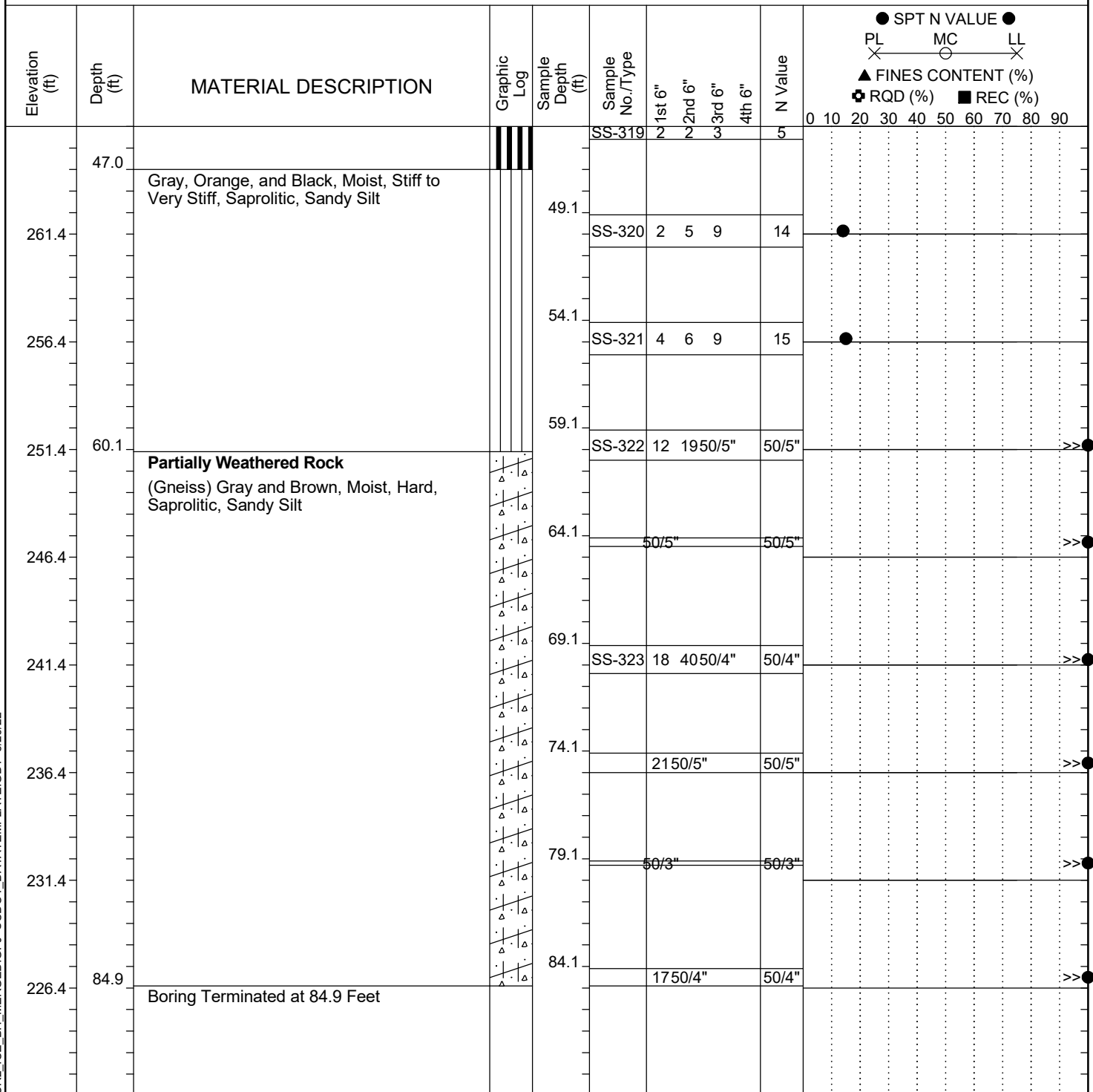
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SC_DOT_20-01_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 5/26/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

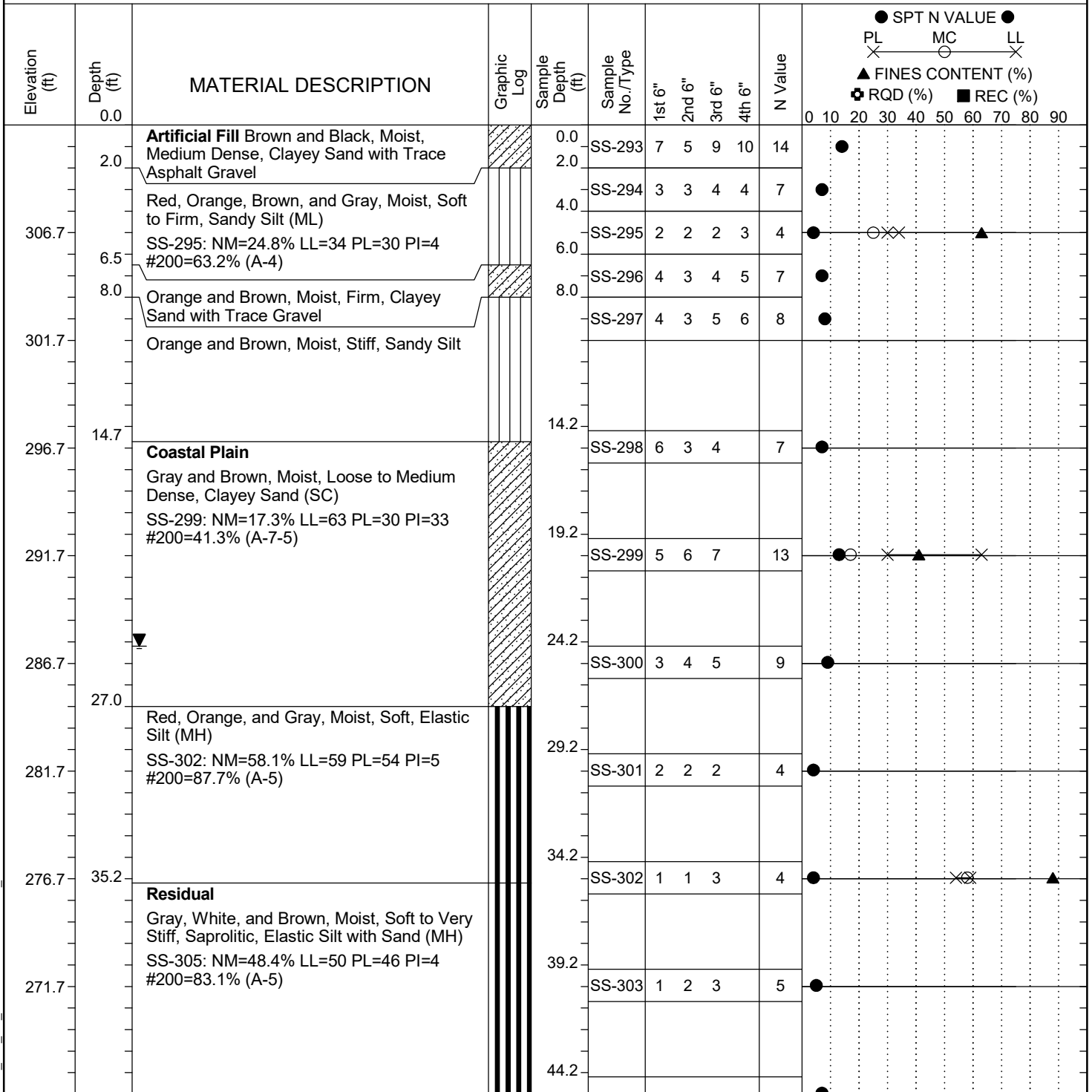
Project ID:	P039719	County:	Richland	Boring No.:	G-113
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	M. Stanbury	Boring Location:	397+32	Offset:	31 RT
Elev.:	311.4 ft	Latitude:	34.03934678	Longitude:	-81.09556744
Total Depth:	84.9 ft	Soil Depth:	84.9 ft	Date Started:	3/9/2022
Core Depth:	N/A ft	Date Completed:	3/9/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	N/A	24HR
					Cave @ 99'



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-114
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	M. Stanbury	Boring Location:	397+51	Offset:	34 RT
Elev.:	311.7 ft	Latitude:	34.0394073	Longitude:	-81.09551299
Total Depth:	70 ft	Soil Depth:	70 ft	Date Started:	3/8/2022
Core Depth:	N/A ft	Date Completed:	3/8/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	24.2 ft

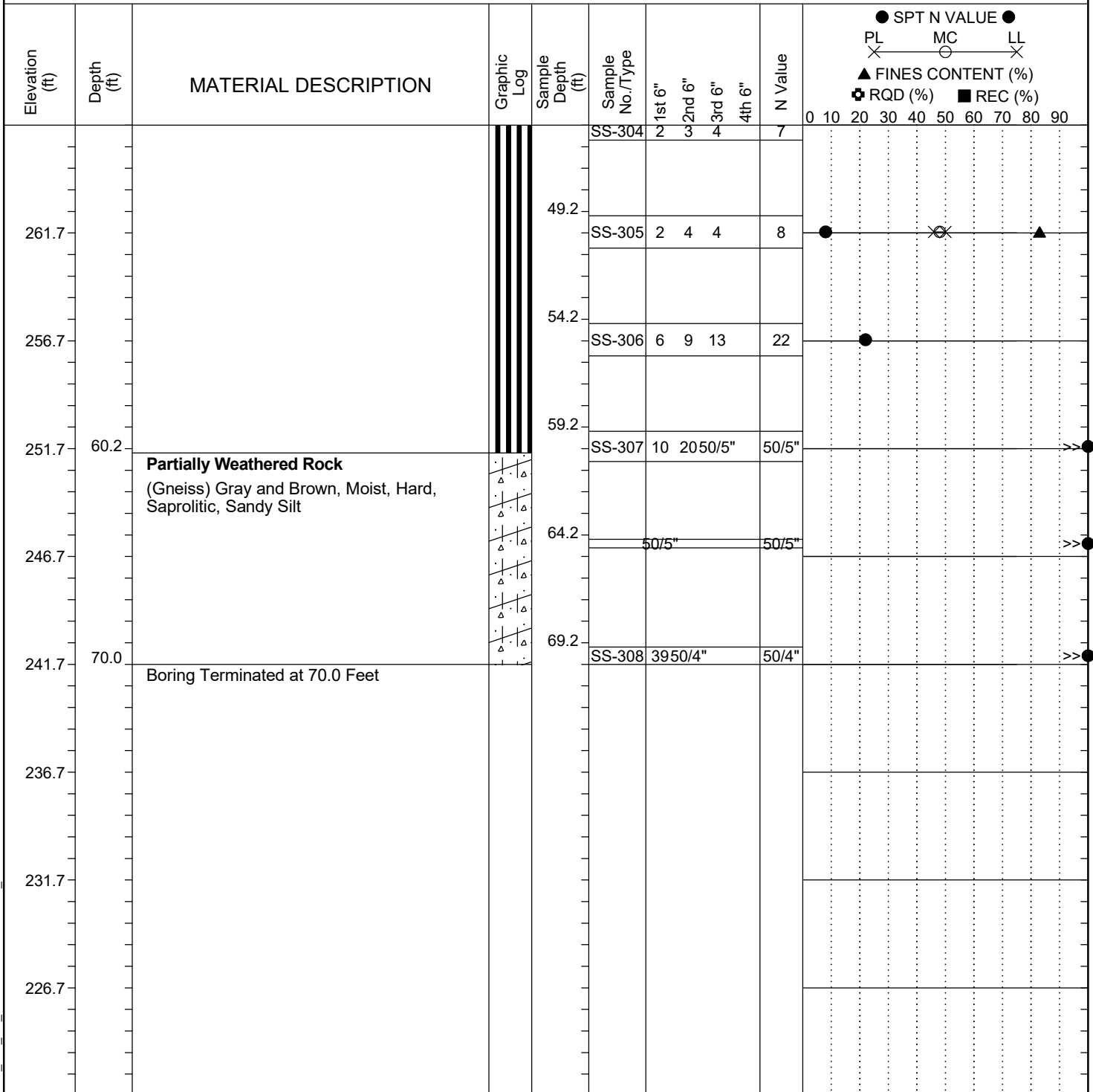


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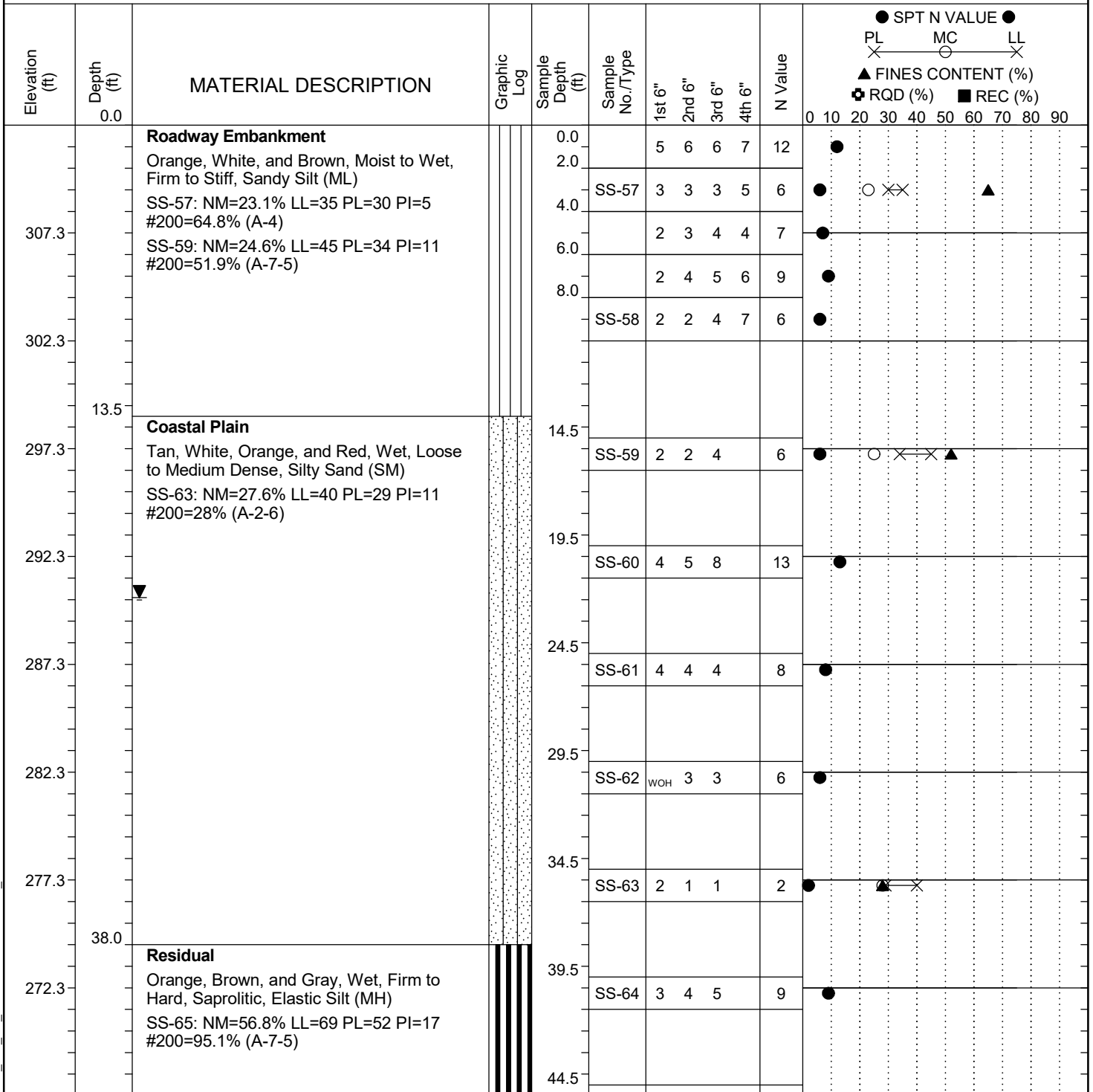
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SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-114
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	M. Stanbury	Boring Location:	397+51	Offset:	34 RT
Elev.:	311.7 ft	Latitude:	34.0394073	Longitude:	-81.09551299
Total Depth:	70 ft	Soil Depth:	70 ft	Core Depth:	N/A ft
Date Started:	3/8/2022				
Date Completed:	3/8/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
24HR	24.2 ft				


LEGEND

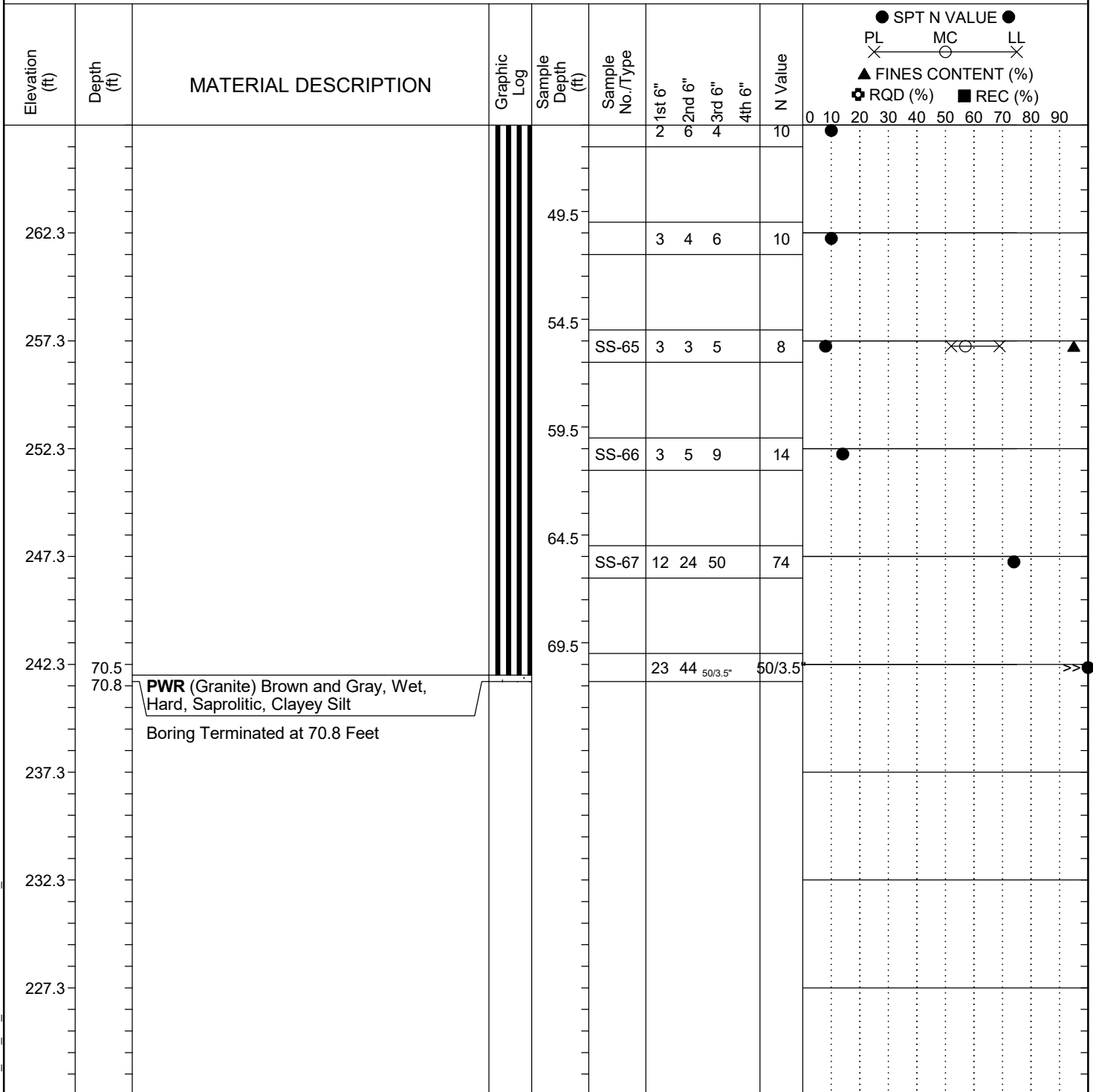
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID: P039719				County: Richland		Boring No.: G-115		
Site Description:		Carolina Crossroads Phase 2					Route:	Ramp
Eng./Geo.: C. McIlroy		Boring Location: 398+00		Offset: 23 LT		Alignment:		RAMPF
Elev.: 312.3 ft	Latitude: 34.03960702	Longitude: -81.09548966		Date Started:		5/4/2022		
Total Depth: 70.8 ft	Soil Depth: 70.8 ft	Core Depth: N/A ft		Date Completed:		5/4/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used:		Y (N)
Drill Machine: D-50 #439	Drill Method: RW		Hammer Type: Automatic		Energy Ratio:		90.8%	
Core Size: N/A	Driller: R. Cassell		Groundwater: TOB N/A		24HR		21.9 ft	


LEGEND
Continued Next Page

SAMPLER TYPE			DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"		HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings		CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube		DC - Driving Casing	

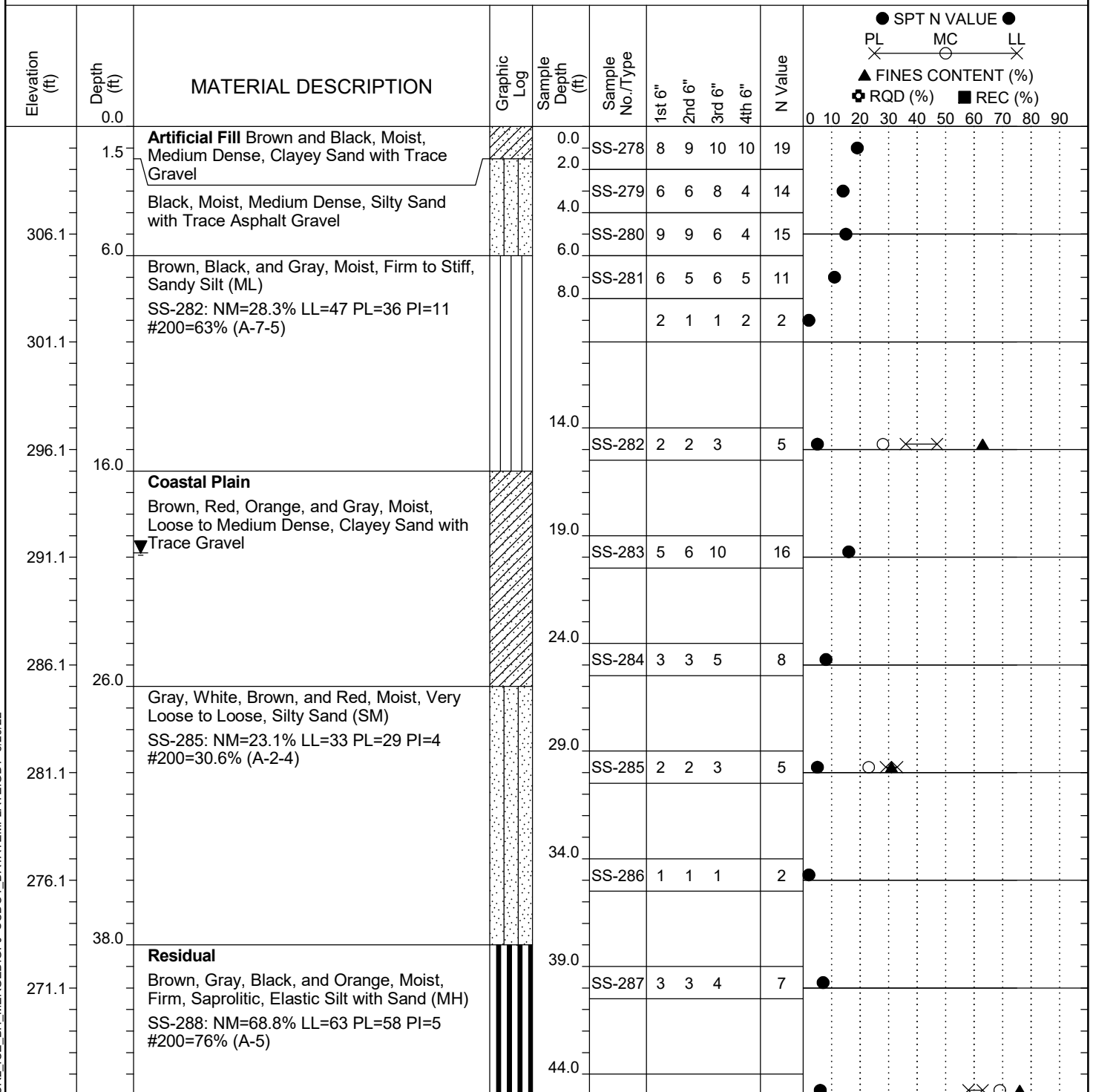
Project ID:	P039719	County:	Richland	Boring No.:	G-115
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	398+00	Offset:	23 LT
Elev.:	312.3 ft	Latitude:	34.03960702	Longitude:	-81.09548966
Total Depth:	70.8 ft	Soil Depth:	70.8 ft	Date Started:	5/4/2022
Core Depth:	N/A ft	Date Completed:	5/4/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	21.9 ft



LEGEND

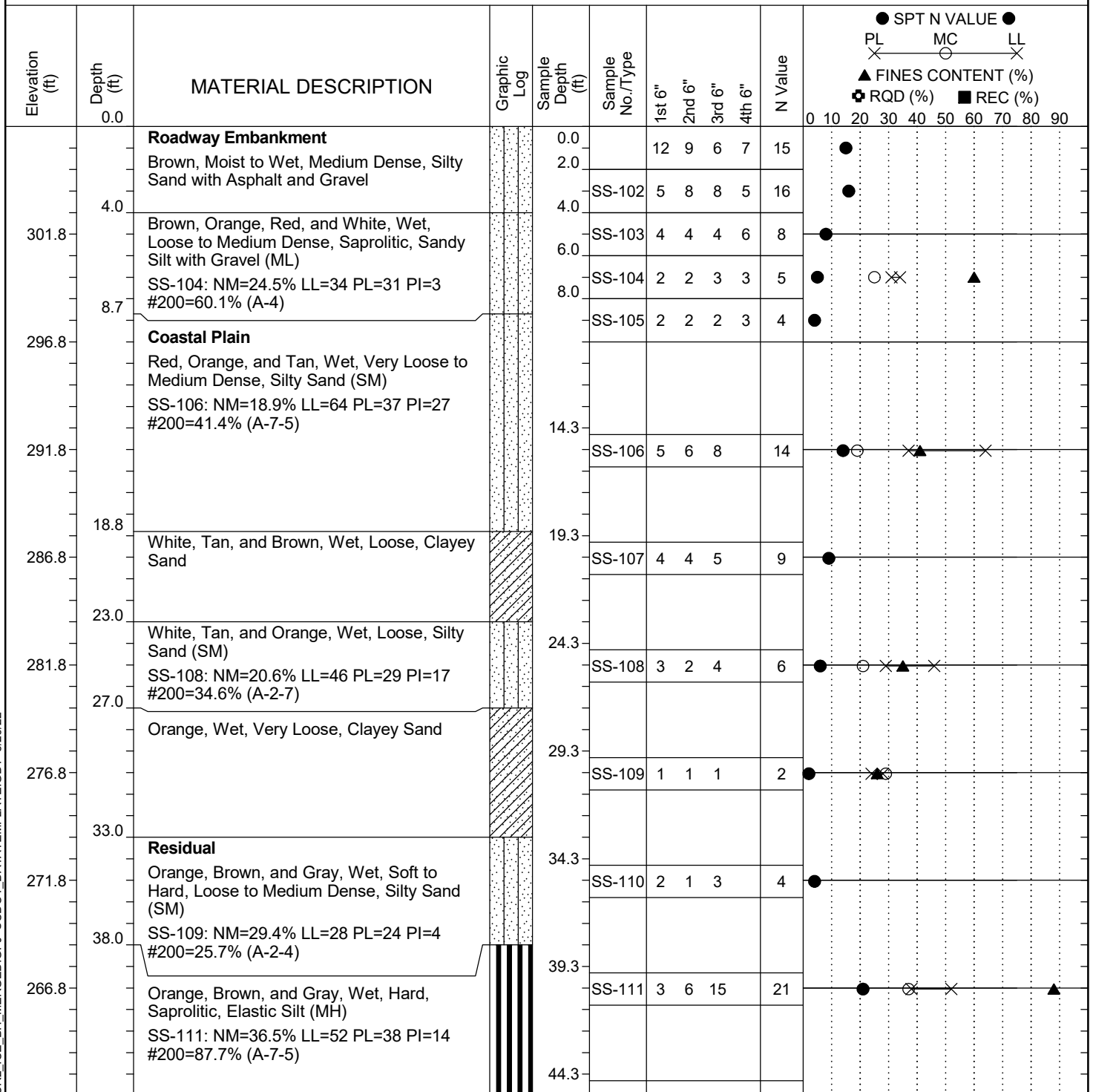
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UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-116
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	M. Stanbury	Boring Location:	397+95	Offset:	60 RT
Elev.:	311.1 ft	Latitude:	34.03937795	Longitude:	-81.09530646
Total Depth:	70.4 ft	Soil Depth:	70.4 ft	Date Started:	3/8/2022
Core Depth:	N/A ft	Date Completed:	3/8/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	19.8 ft


LEGEND
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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

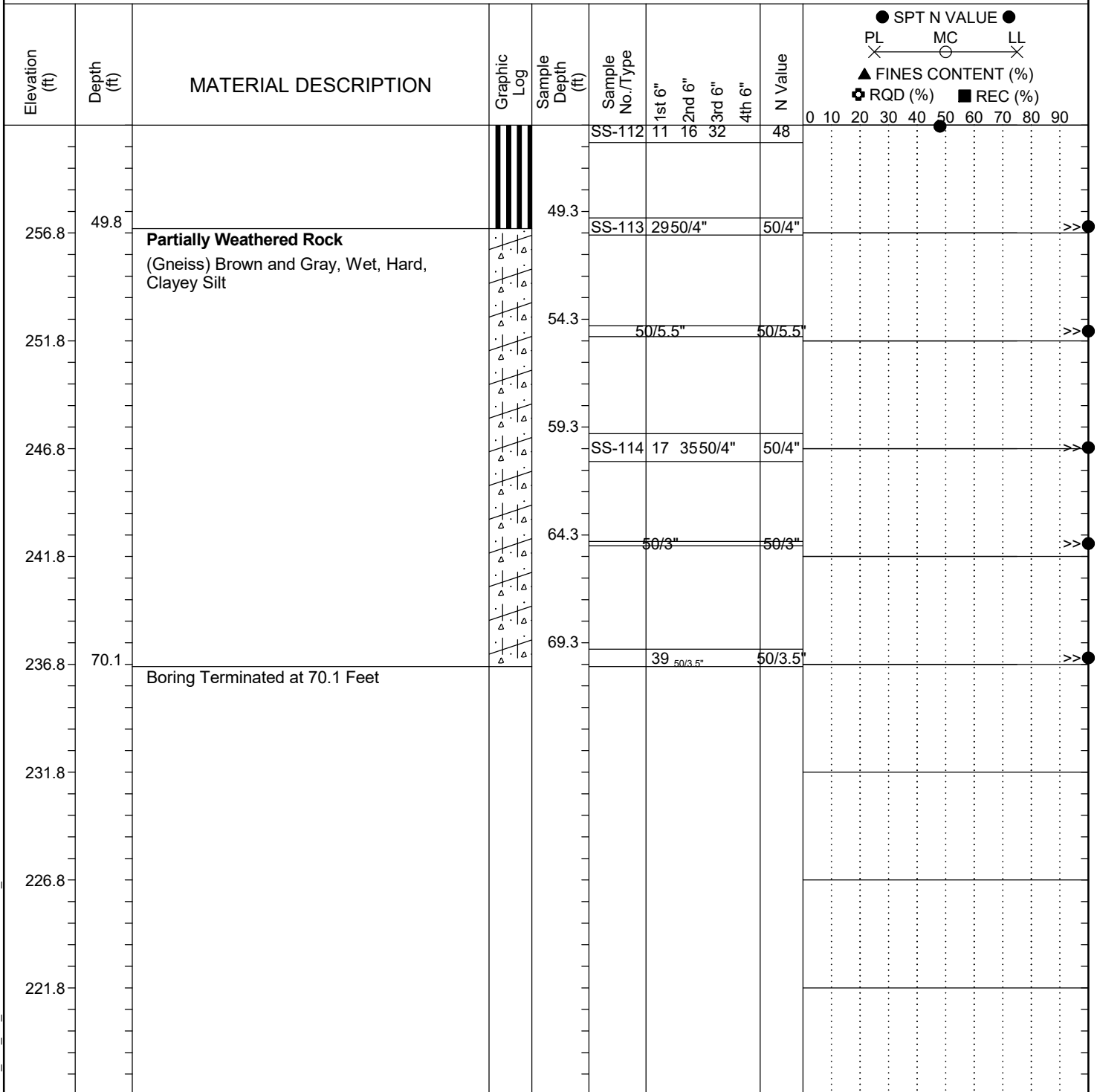
Project ID:	P039719	County:	Richland	Boring No.:	G-117
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	395+25	Offset:	20 RT
Elev.:	306.8 ft	Latitude:	34.03905087	Longitude:	-81.09612992
Total Depth:	70.1 ft	Soil Depth:	70.1 ft	Date Started:	3/10/2022
Core Depth:	N/A ft	Date Completed:	3/10/2022	Alignment:	RAMPF
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	84.4%
Driller:	M. Morgan	Groundwater:	TOB	24HR	Cave @ 7'


LEGEND

Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-117
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	395+25	Offset:	20 RT
Elev.:	306.8 ft	Latitude:	34.03905087	Longitude:	-81.09612992
Total Depth:	70.1 ft	Soil Depth:	70.1 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Groundwater:	TOB N/A
				24HR	Cave @ 7'



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Carolina Crossroads - Phase 2

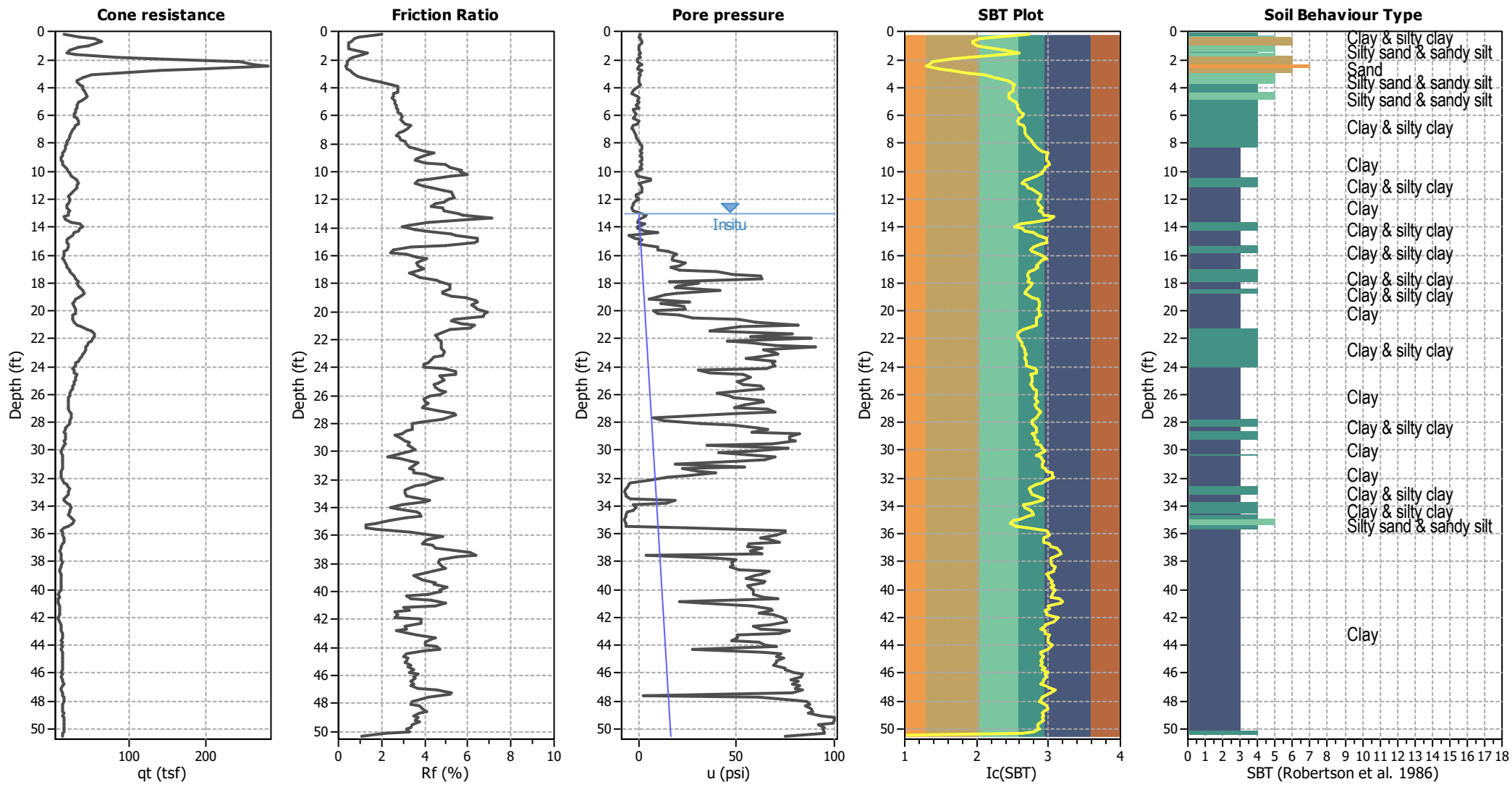
Geotechnical Subsurface Data Report

APPENDIX C – BRIDGE 44

SECTION 3 FIELD TESTING LOGS

SECTION 3B CPT LOGS

CPT basic interpretation plots

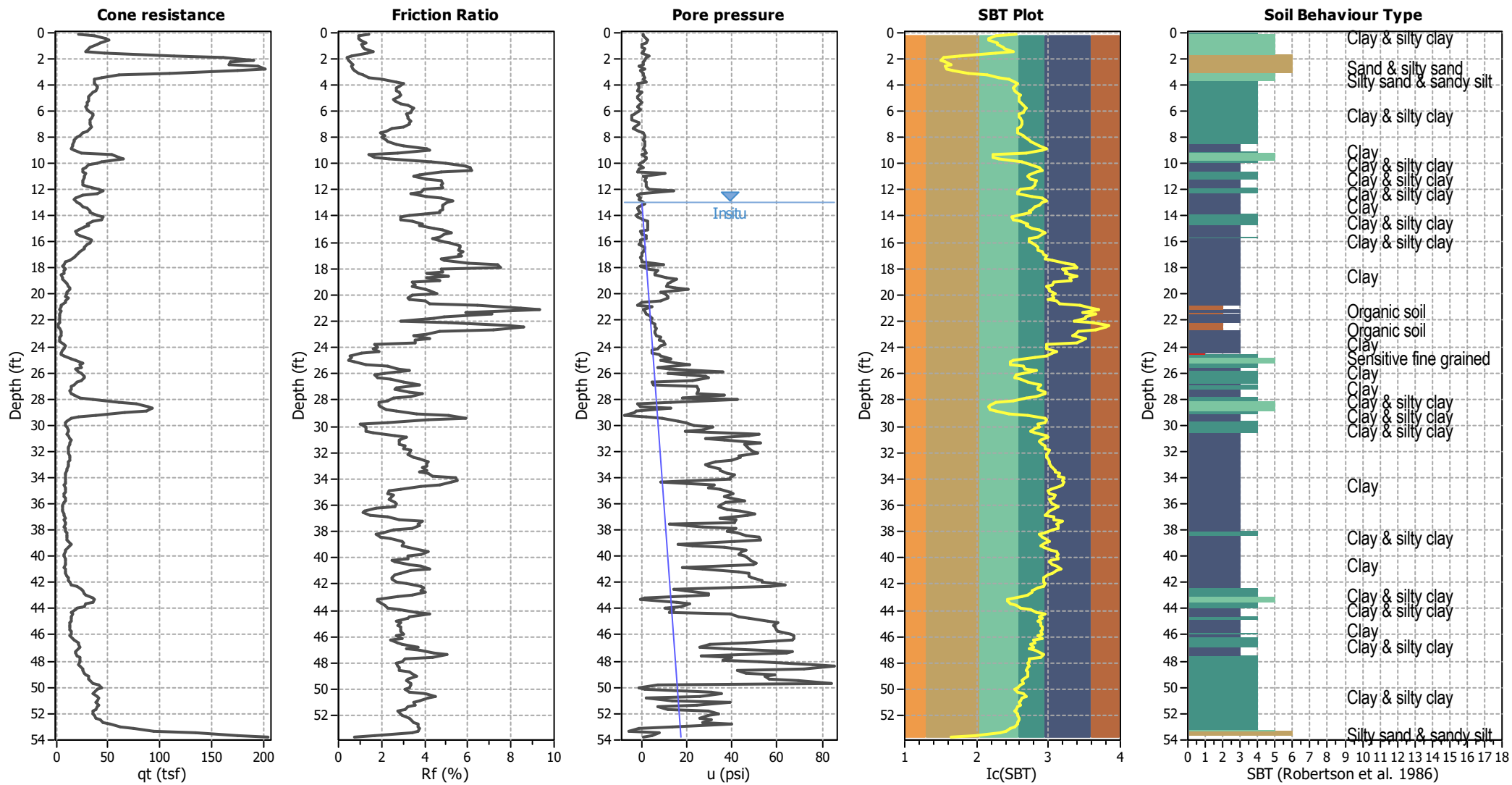


Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	13.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K ₀ applied:	Yes
Earthquake magnitude M _w :	7.28	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.39	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	13.00 ft	Fill height:	N/A	Limit depth:	N/A

SBT legend		
1. Sensitive fine grained	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

CPT basic interpretation plots



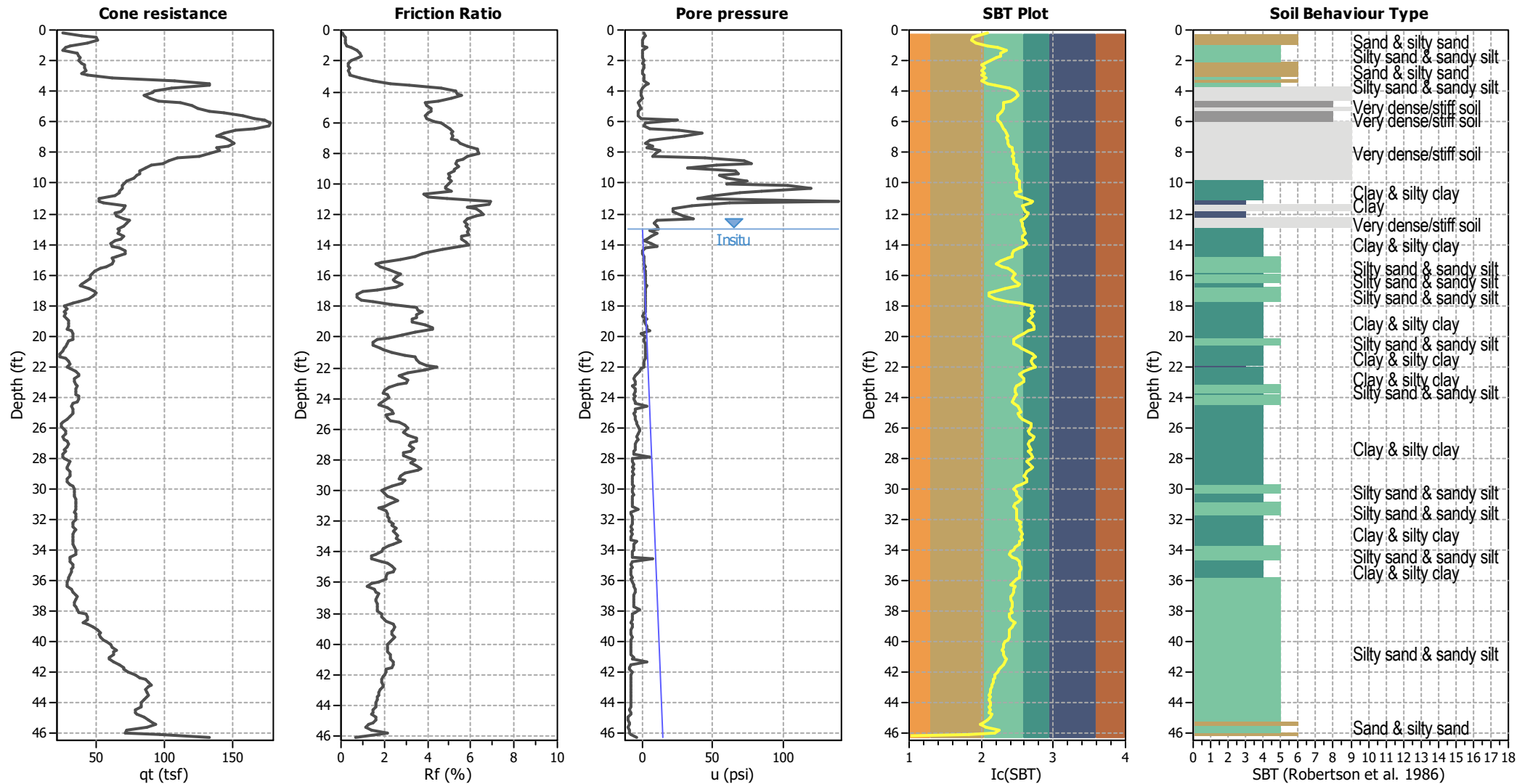
Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	13.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K _o applied:	Yes
Earthquake magnitude M _w :	7.28	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.39	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	13.00 ft	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained










CPT basic interpretation plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	13.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K _o applied:	Yes
Earthquake magnitude M _w :	7.28	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.39	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	13.00 ft	Fill height:	N/A	Limit depth:	N/A

SBT legend

	1. Sensitive fine grained		4. Clayey silt to silty		7. Gravely sand to sand
	2. Organic material		5. Silty sand to sandy silt		8. Very stiff sand to
	3. Clay to silty clay		6. Clean sand to silty sand		9. Very stiff fine grained

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX C – BRIDGE 44

SECTION 4 LABORATORY TEST RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

Borehole	Depth	Liquid Limit	Plastic Limit	Plasticity Index	Maximum Size (mm)	%<#200 Sieve	Classification	Water Content (%)	Dry Density (pcf)	Saturation (%)	Void Ratio
G-015	4.2	47	27	20	12.5	62	CL	27.5			
G-015	14.3	59	29	30	12.5	39	SC	17.2			
G-015	19.3	52	30	22	12.5	61	MH	26.6			
G-106	0.0	29	19	10	19	37	SC	10.6			
G-106	4.0	65	31	34	4.75	51	CH	18.6			
G-106	14.4	62	33	29	9.5	36	SM	19.8			
G-106	19.4	41	29	12	12.5	55	ML	26.5			
G-106	39.4	41	29	12	9.5	94	ML	57.3			
G-106	54.4	72	55	17	12.5	82	MH	36.8			
G-107	4.0	51	33	18	19	42	SM	17.1			
G-107	19.4	557	33	524	19	31	SC	20.1			
G-107	24.4	58	50	8	2	93	MH	53.7			
G-107	39.4	70	55	15	2	81	MH	56.0			
G-108	6.0	47	31	16	19	47	SM	21.6			
G-108	14.4	37	20	17	9.5	54	CL	21.9			
G-108	24.4	44	26	18	19	39	SC	25.4			
G-108	29.4	61	53	8	9.5	89	MH	59.8			
G-108	39.4	43	35	8	9.5	70	ML	37.6			
G-109	6.0	33	28	5	37.5	41	SM	17.2			
G-109	19.4	43	32	11	12.5	52	ML	24.0			
G-109	24.4	25	14	11	4.75	31	SC	16.6			
G-109	29.4	25	19	6	9.5	32	SC-SM	23.7			
G-109	39.4	66	50	16	9.5	92	MH	61.2			
G-109	54.4	37	35	2	2	82	ML	28.9			
G-110	19.5	30	18	12	9.5	46	SC	17.8			
G-110	24.5	62	36	26	4.75	50	SM	22.0			
G-110	29.5	NP	NP	NP	12.5	31	SM	28.1			
G-110	39.5	67	54	13	9.5	83	MH	72.3			
G-110	54.5	41	38	3	9.5	89	ML	25.5			
G-111	4.0	44	28	16	9.5	52	ML	20.6			
G-111	19.4	32	19	13	9.5	38	SC	21.0			
G-111	24.4	38	17	21	4.75	46	SC	21.3			
G-111	29.4	24	20	4	12.5	34	SC-SM	26.6			
G-112	2.0	43	27	16	12.5	61	ML	22.0			
G-112	6.0	49	32	17	9.5	52	ML	20.9			
G-112	19.4	51	28	23	9.5	49	SC	18.1			
G-112	29.4	28	22	6	4.75	40	SC-SM	18.0			
G-112	39.4	48	33	15	2	91	ML	44.6			
G-113	19.1	78	39	39	12.5	66	MH	24.5			
G-113	29.1	NP	NP	NP	0.85	30	SM	26.0			
G-113	39.1	64	55	9	4.75	92	MH	61.3			
G-114	4.0	34	30	4	12.5	63	ML	24.8			
G-114	19.2	63	30	33	4.75	41	SC	17.3			

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

Borehole	Depth	Liquid Limit	Plastic Limit	Plasticity Index	Maximum Size (mm)	%<#200 Sieve	Classification	Water Content (%)	Dry Density (pcf)	Saturation (%)	Void Ratio
G-114	34.2	59	54	5	2	88	MH	58.1			
G-114	49.2	50	46	4	0.85	83	MH	48.4			
G-115	2.0	35	30	5	19	65	ML	23.1			
G-115	14.5	45	34	11	9.5	52	ML	24.6			
G-115	34.5	40	29	11	9.5	28	SM	27.6			
G-115	54.5	69	52	17	0.85	95	MH	56.8			
G-116	14.0	47	36	11	4.75	63	ML	28.3			
G-116	29.0	33	29	4	12.5	31	SM	23.1			
G-116	44.0	63	58	5	2	76	MH	68.8			
G-117	6.0	34	31	3	19	60	ML	24.5			
G-117	14.3	64	37	27	9.5	41	SM	18.9			
G-117	24.3	46	29	17	9.5	35	SM	20.6			
G-117	34.3	28	24	4	12.5	26	SM	29.4			
G-117	39.3	52	38	14	2	87	MH	36.5			

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX C – BRIDGE 44

SECTION 4 LABORATORY TEST RESULTS

SECTION 4A SPLIT-SPOON SAMPLES

PROJECT NAME Carolina Crossroads Phase 2

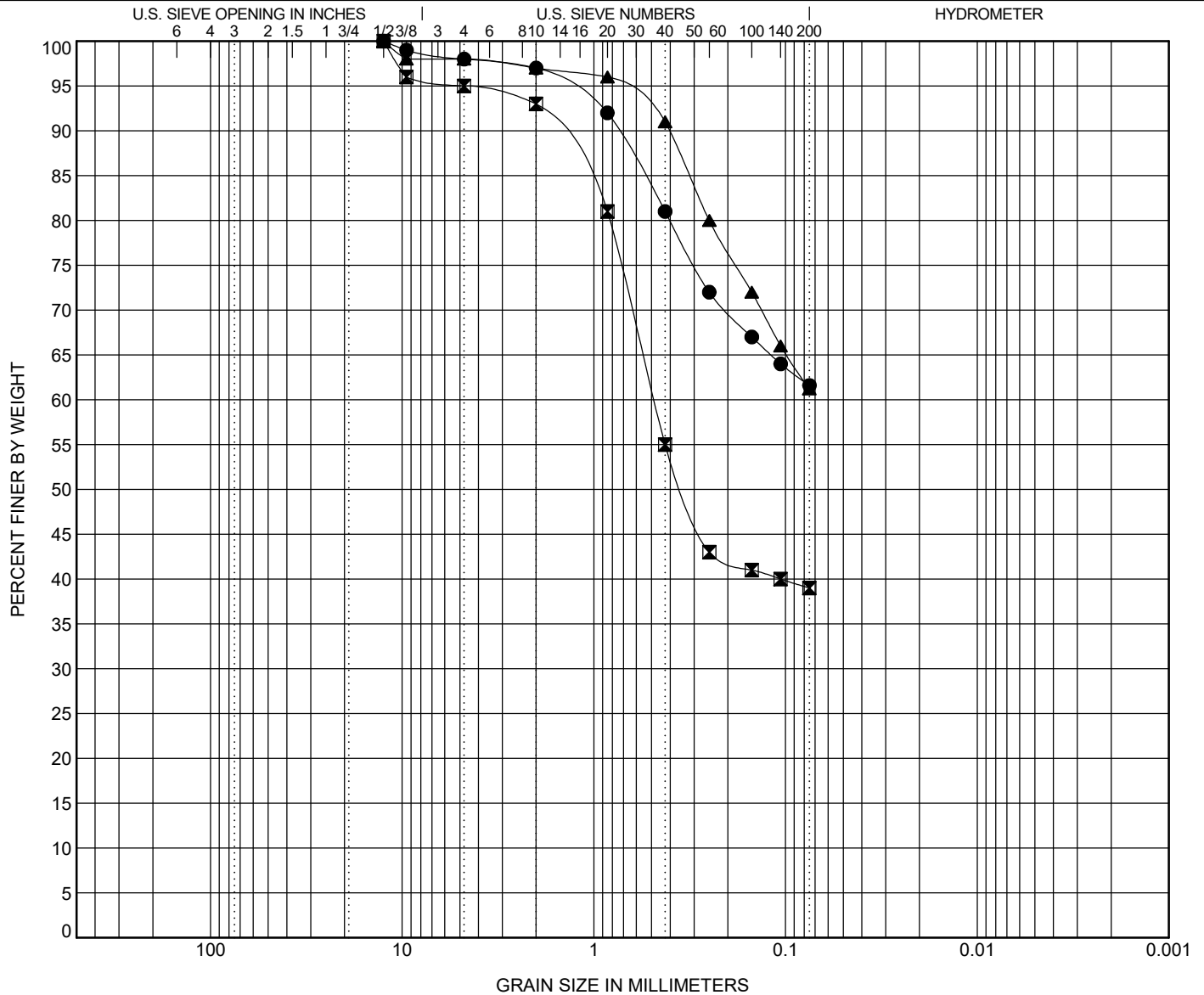
The flowchart is a graph with Plasticity Index (PI) on the vertical axis (0 to 60) and Liquid Limit (LL) on the horizontal axis (0 to 100). A diagonal line represents the A-line (PI = LL - 0.73). A horizontal line at PI = 7 represents the U-line. A vertical line at LL = 50 separates the CL/CH region from the ML/MH region. The regions are labeled: CL (top-left), CH (top-right), ML (bottom-left), and MH (bottom-right). The U-line is labeled CL-ML on the left and CH-MH on the right. A sample with PI = 20 and LL = 50 is plotted as a solid circle, falling within the CL region.

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-015	4.2	SANDY LEAN CLAY(CL)					47	27	20		
☒ G-015	14.3	CLAYEY SAND(SC)					59	29	30		
▲ G-015	19.3	SANDY ELASTIC SILT(MH)					52	30	22		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-015	4.2	12.5				2.0	36.4	61.6			
☒ G-015	14.3	12.5	0.486			5.0	56.0	39.0			
▲ G-015	19.3	12.5				2.0	36.8	61.2			

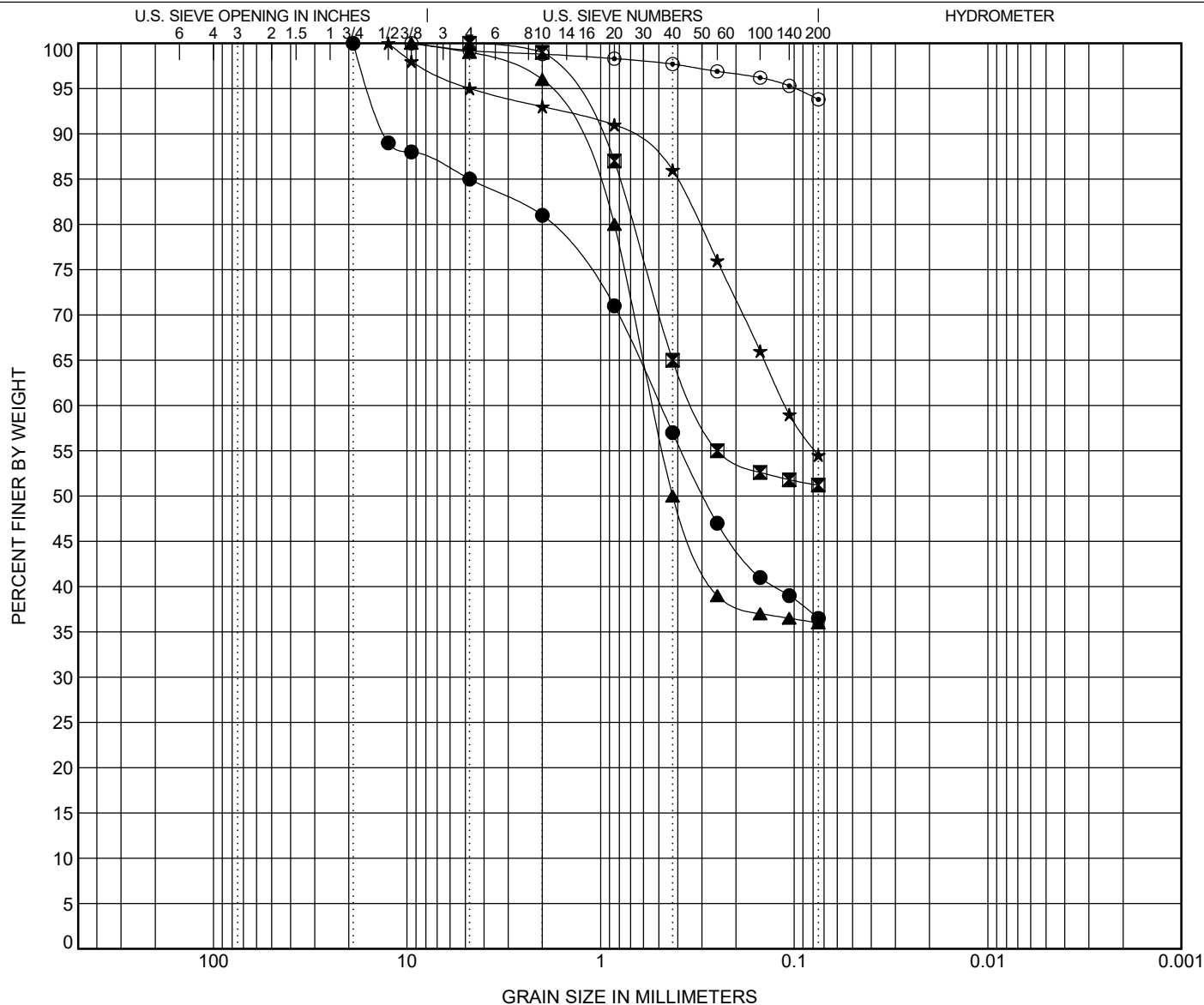
PROJECT NAME Carolina Crossroads Phase 2

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PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

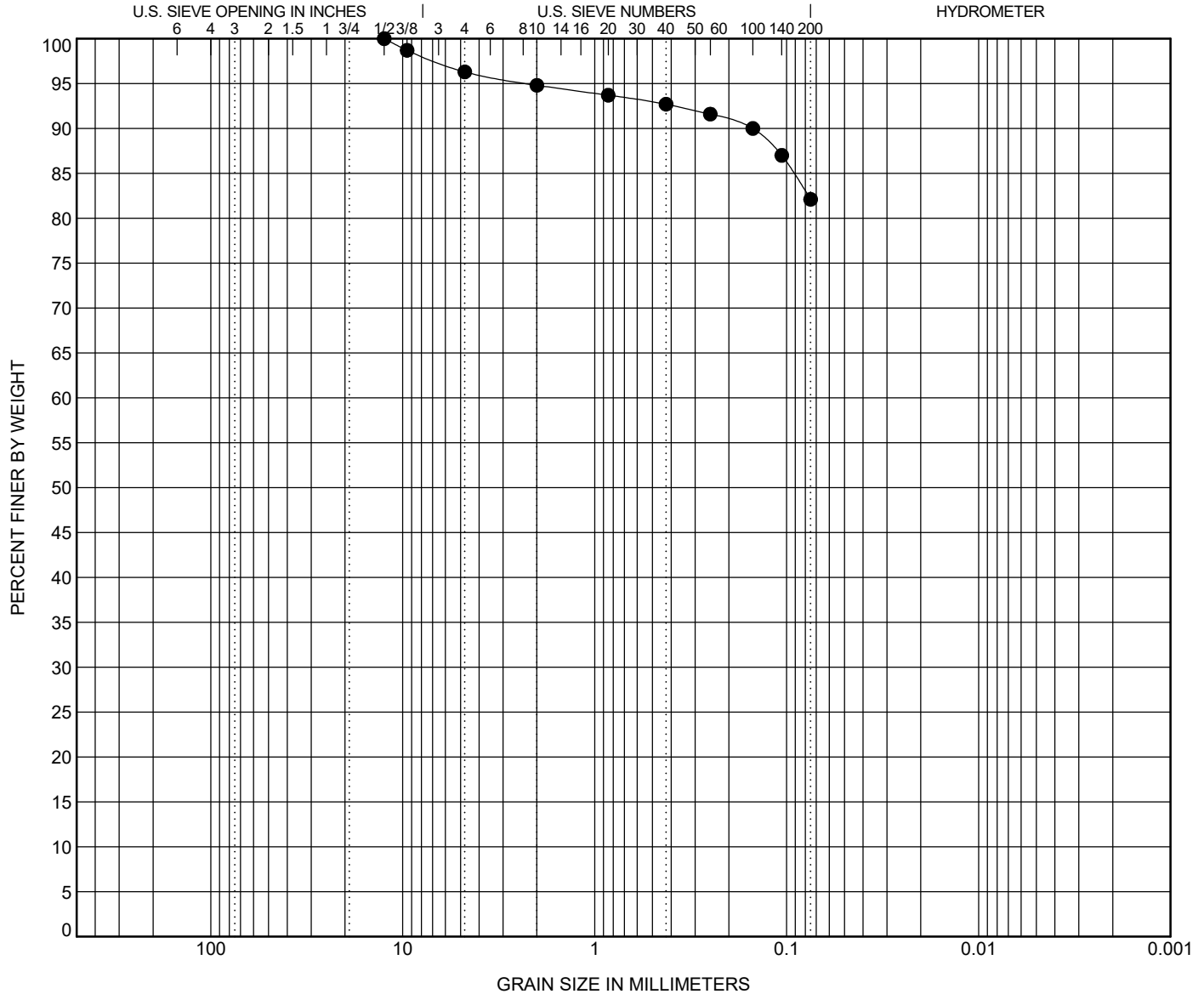


COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-106	0.0	CLAYEY SAND with GRAVEL(SC)					29	19	10		
☒ G-106	4.0	SANDY FAT CLAY(CH)					65	31	34		
▲ G-106	14.4	SILTY SAND(SM)					62	33	29		
★ G-106	19.4	SANDY SILT(ML)					41	29	12		
◎ G-106	39.4	SILT(ML)					41	29	12		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-106	0.0	19	0.493			15.0	48.5	36.5			
☒ G-106	4.0	4.75	0.326			0.0	48.8	51.2			
▲ G-106	14.4	9.5	0.535			1.0	63.0	36.0			
★ G-106	19.4	12.5	0.111			5.0	40.5	54.5			
◎ G-106	39.4	9.5				0.8	5.4	93.8			

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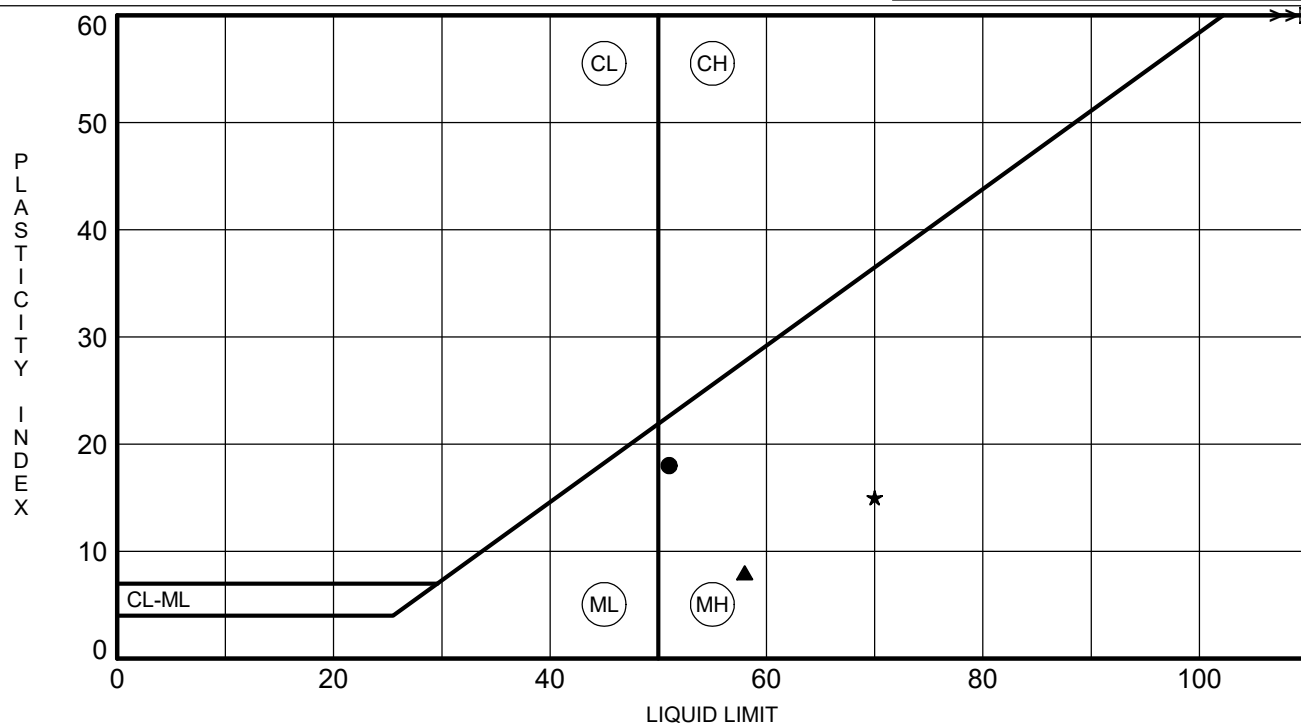
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-106	54.4	ELASTIC SILT with SAND(MH)					72	55	17		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-106	54.4	12.5				3.7	14.2	82.1			

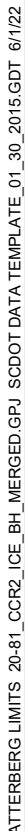
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PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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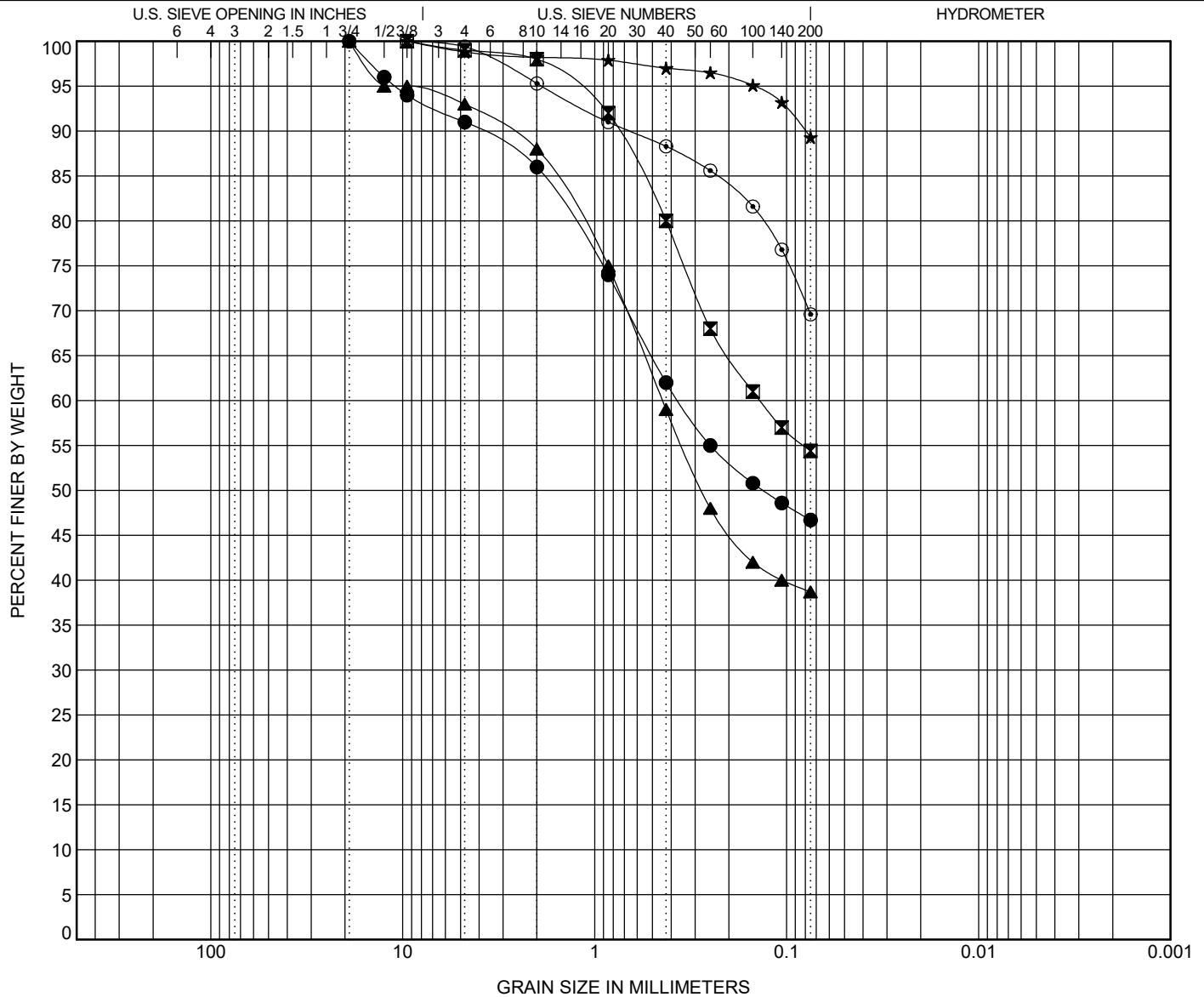
PROJECT COUNTY Richland

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PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

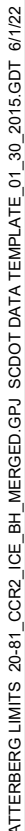
PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-108	6.0	SILTY SAND(SM)					47	31	16		
■ G-108	14.4	SANDY LEAN CLAY(CL)					37	20	17		
▲ G-108	24.4	CLAYEY SAND(SC)					44	26	18		
★ G-108	29.4	ELASTIC SILT(MH)					61	53	8		
⊙ G-108	39.4	SANDY SILT(ML)					43	35	8		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-108	6.0	19	0.365			9.0	44.3	46.7			
■ G-108	14.4	9.5	0.138			1.0	44.6	54.4			
▲ G-108	24.4	19	0.444			7.0	54.3	38.7			
★ G-108	29.4	9.5				1.2	9.5	89.3			
⊙ G-108	39.4	9.5				0.6	29.8	69.6			

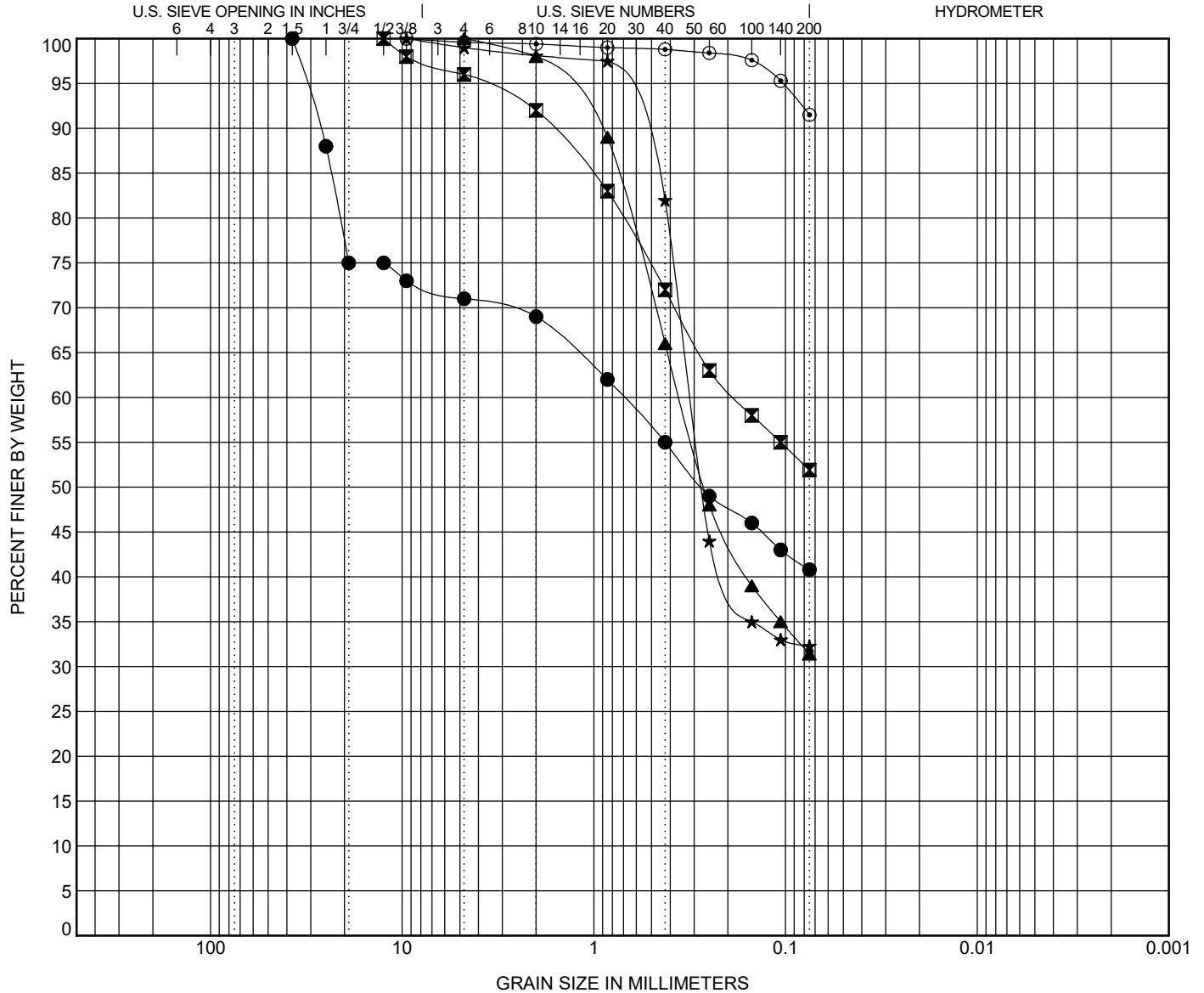
PROJECT COUNTY Richland

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PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

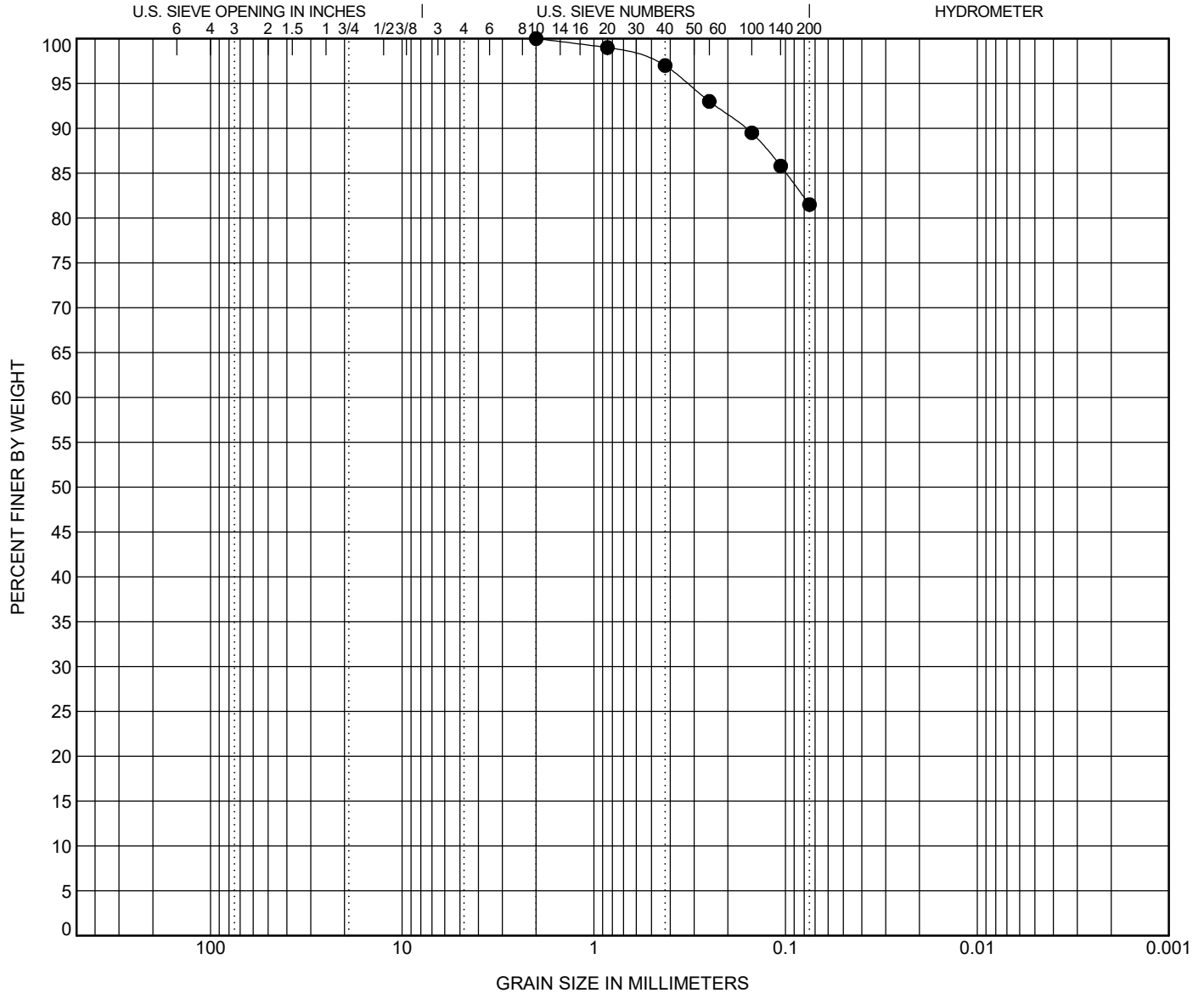


COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-109	6.0	SILTY SAND with GRAVEL(SM)					33	28	5		
⊠ G-109	19.4	SANDY SILT(ML)					43	32	11		
▲ G-109	24.4	CLAYEY SAND(SC)					25	14	11		
★ G-109	29.4	SILTY, CLAYEY SAND(SC-SM)					25	19	6		
⊙ G-109	39.4	ELASTIC SILT(MH)					66	50	16		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-109	6.0	37.5	0.697			29.0	30.2	40.8			
⊠ G-109	19.4	12.5	0.184			4.0	44.1	51.9			
▲ G-109	24.4	4.75	0.356			0.0	68.6	31.4			
★ G-109	29.4	9.5	0.313			1.0	66.7	32.3			
⊙ G-109	39.4	9.5				0.4	8.1	91.5			

PROJECT ID P039719

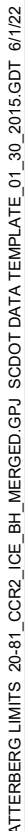
 PROJECT NAME Carolina Crossroads Phase 2

 PROJECT COUNTY Richland


COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-109	54.4	SILT with SAND(ML)					37	35	2		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-109	54.4	2				0.0	18.5	81.5			

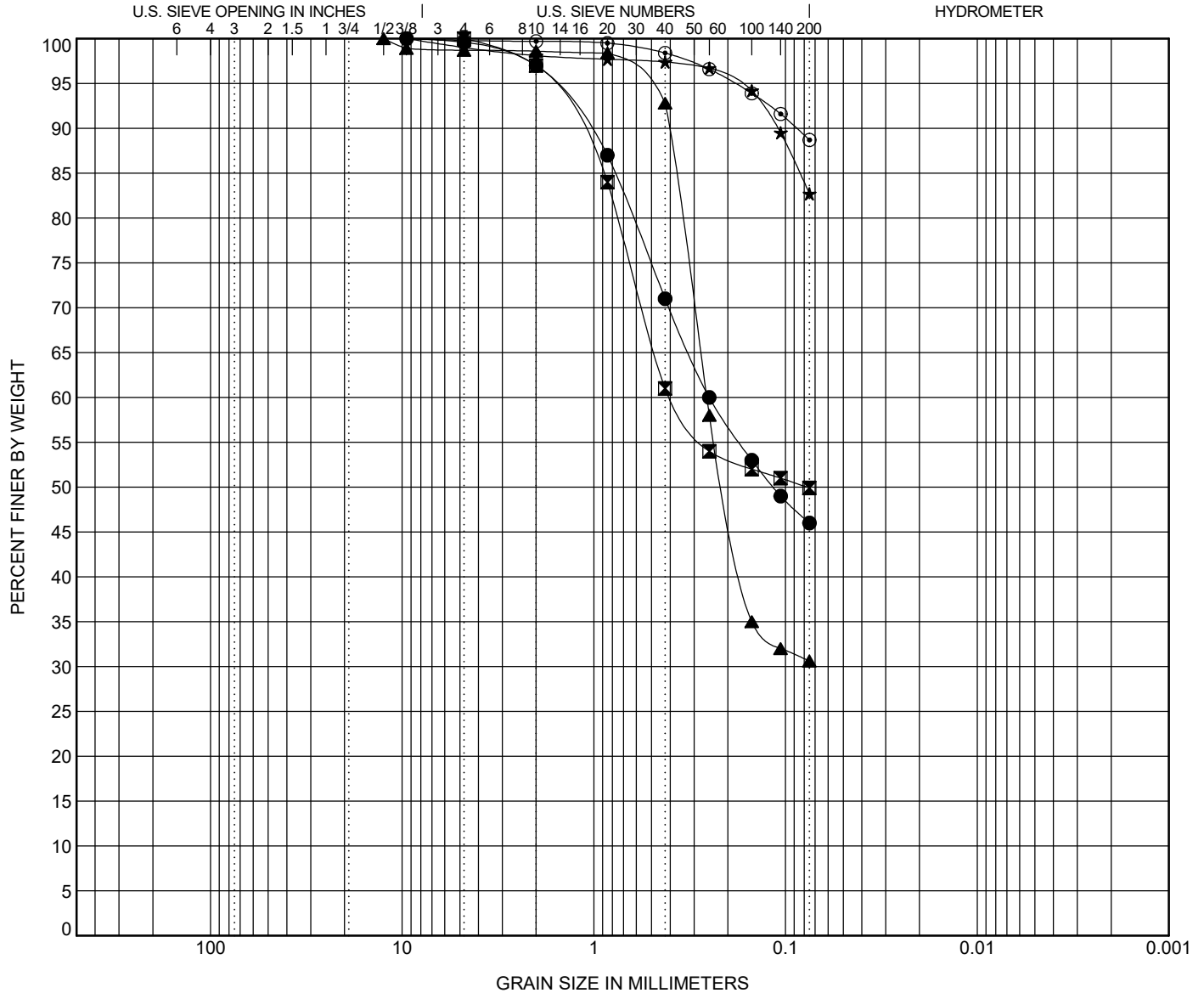
PROJECT COUNTY Richland

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PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

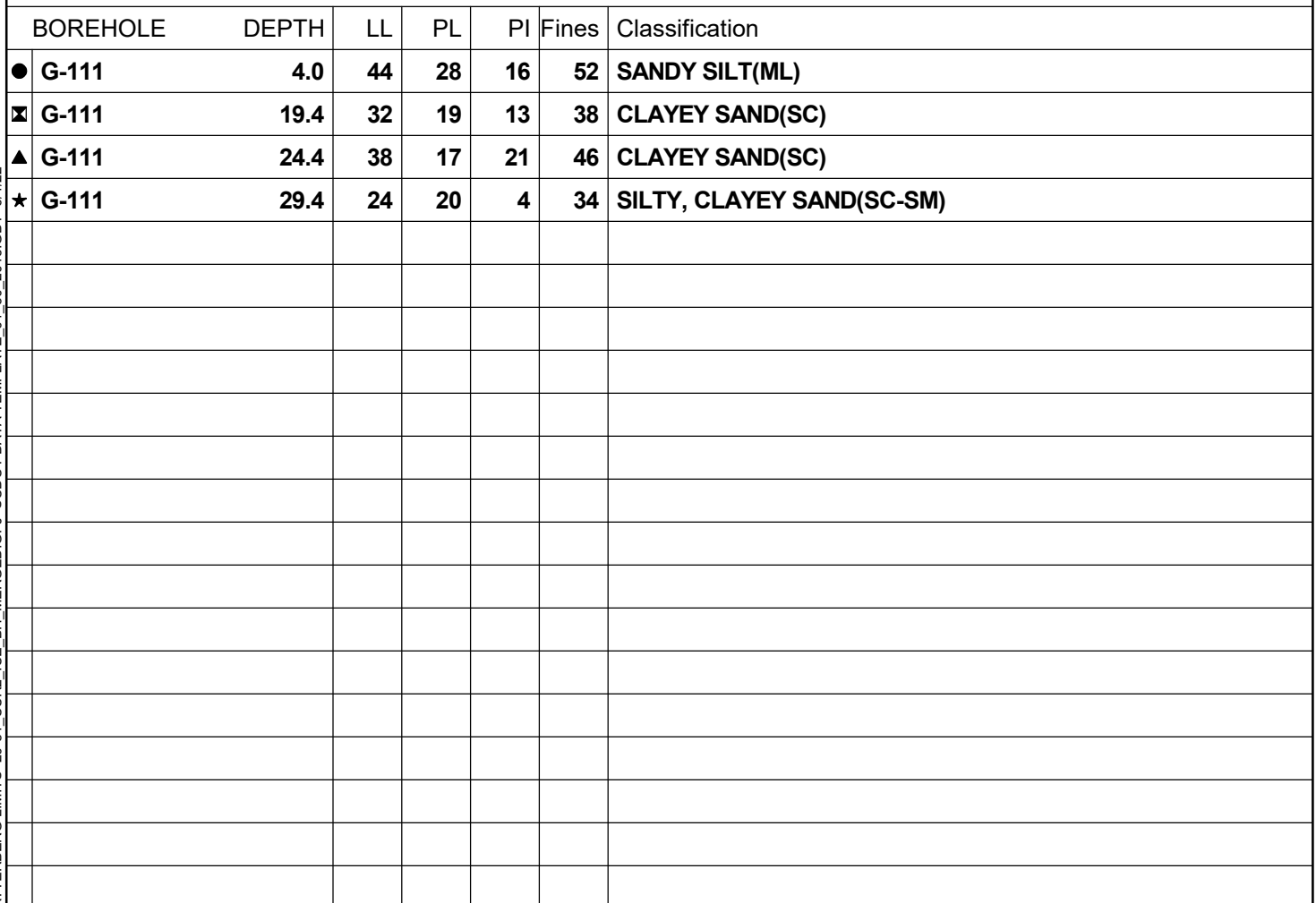
PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-110	19.5	CLAYEY SAND(SC)					30	18	12		
■ G-110	24.5	SILTY SAND(SM)					62	36	26		
▲ G-110	29.5	SILTY SAND(SM)					NP	NP	NP		
★ G-110	39.5	ELASTIC SILT with SAND(MH)					67	54	13		
◎ G-110	54.5	SILT(ML)					41	38	3		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-110	19.5	9.5	0.25			0.4	53.6	46.0			
■ G-110	24.5	4.75	0.394			0.0	50.1	49.9			
▲ G-110	29.5	12.5	0.258			1.3	68.1	30.6			
★ G-110	39.5	9.5				1.0	16.3	82.7			
◎ G-110	54.5	9.5				0.2	11.1	88.7			

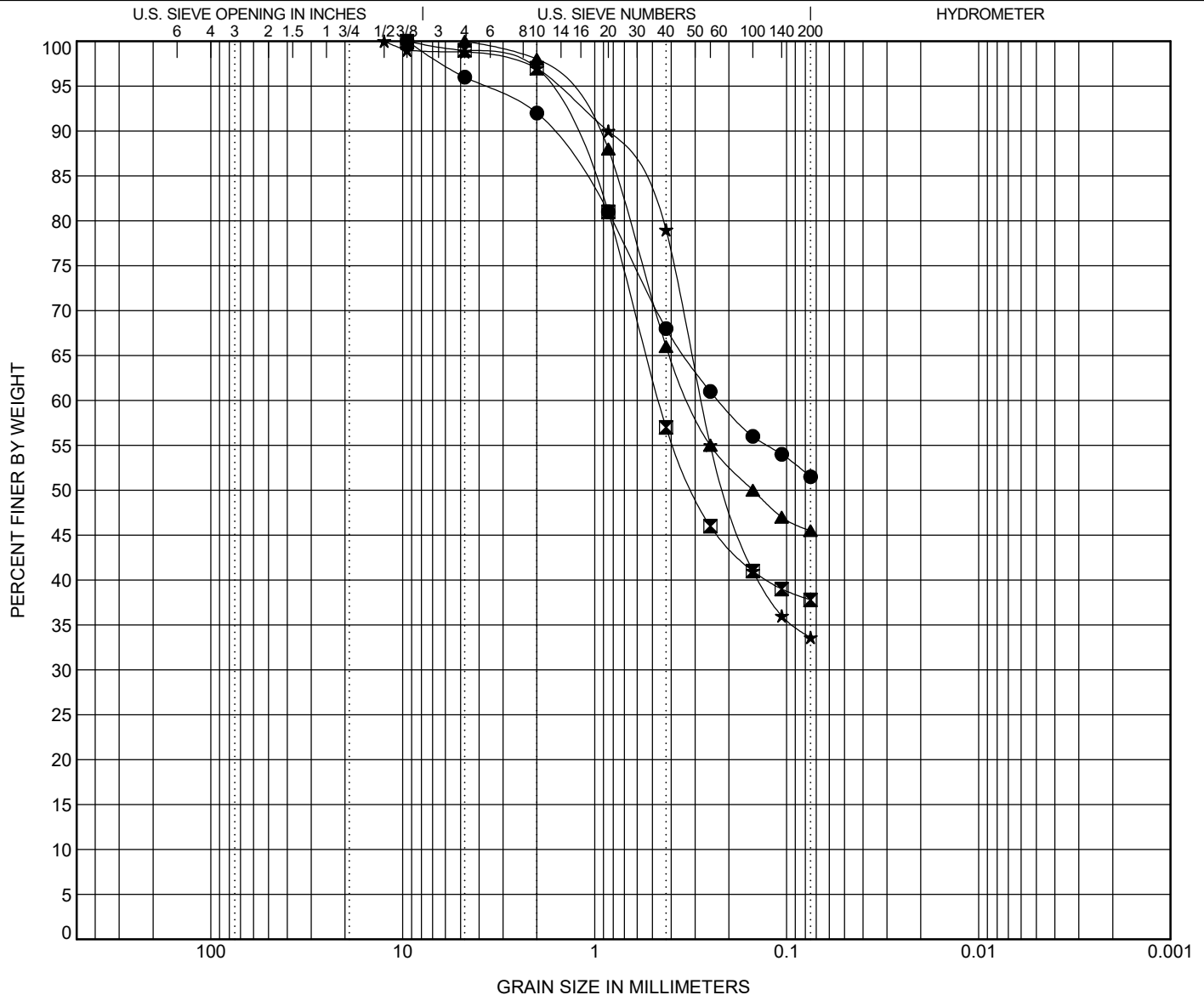
PROJECT COUNTY Richland



PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-111	4.0	SANDY SILT(ML)					44	28	16		
☒ G-111	19.4	CLAYEY SAND(SC)					32	19	13		
▲ G-111	24.4	CLAYEY SAND(SC)					38	17	21		
★ G-111	29.4	SILTY, CLAYEY SAND(SC-SM)					24	20	4		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-111	4.0	9.5	0.226			4.0	44.5	51.5			
☒ G-111	19.4	9.5	0.463			1.0	61.2	37.8			
▲ G-111	24.4	4.75	0.318			0.0	54.5	45.5			
★ G-111	29.4	12.5	0.279			1.2	65.2	33.6			

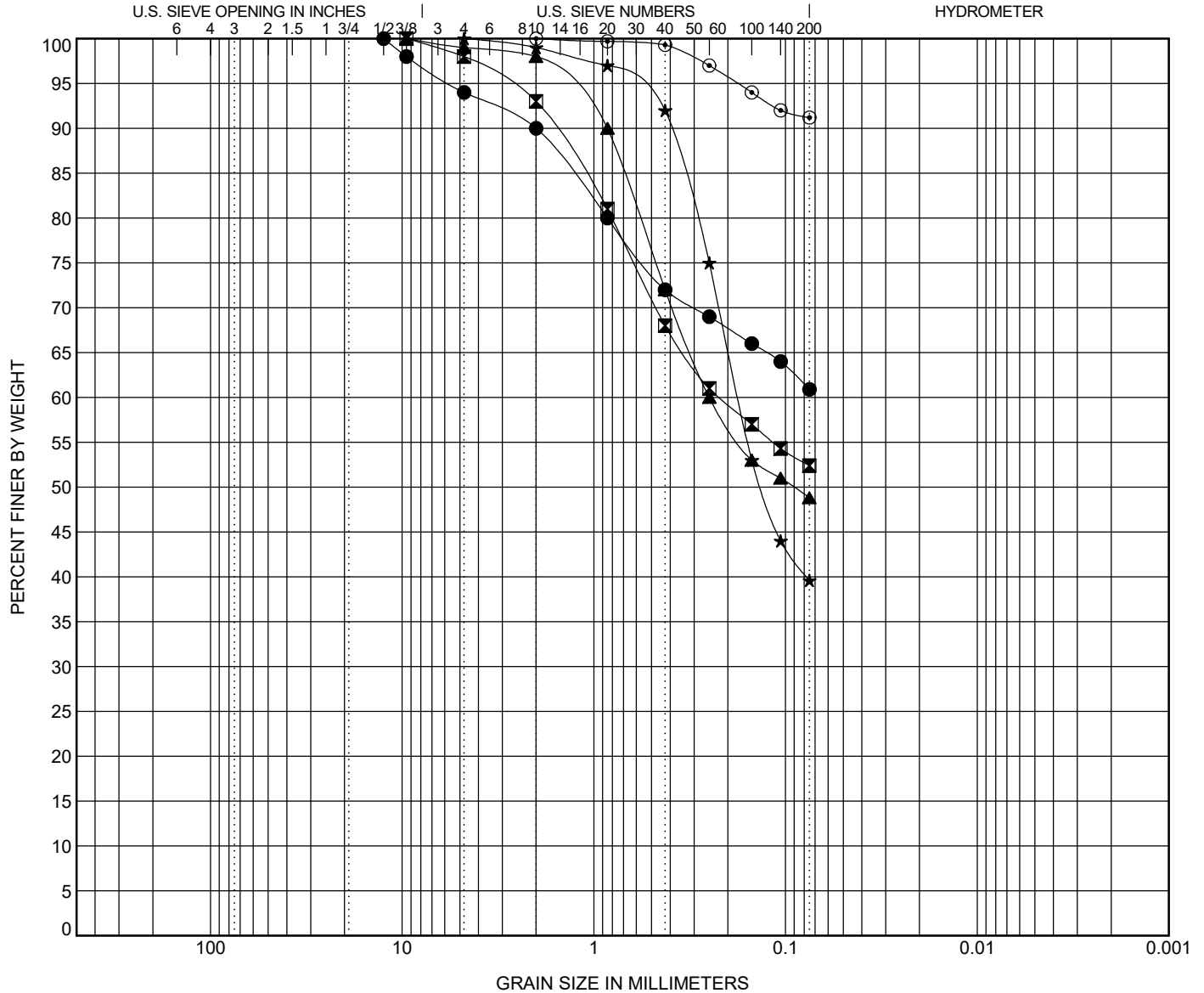
PROJECT NAME Carolina Crossroads Phase 2

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PROJECT NAME Carolina Crossroads Phase 2

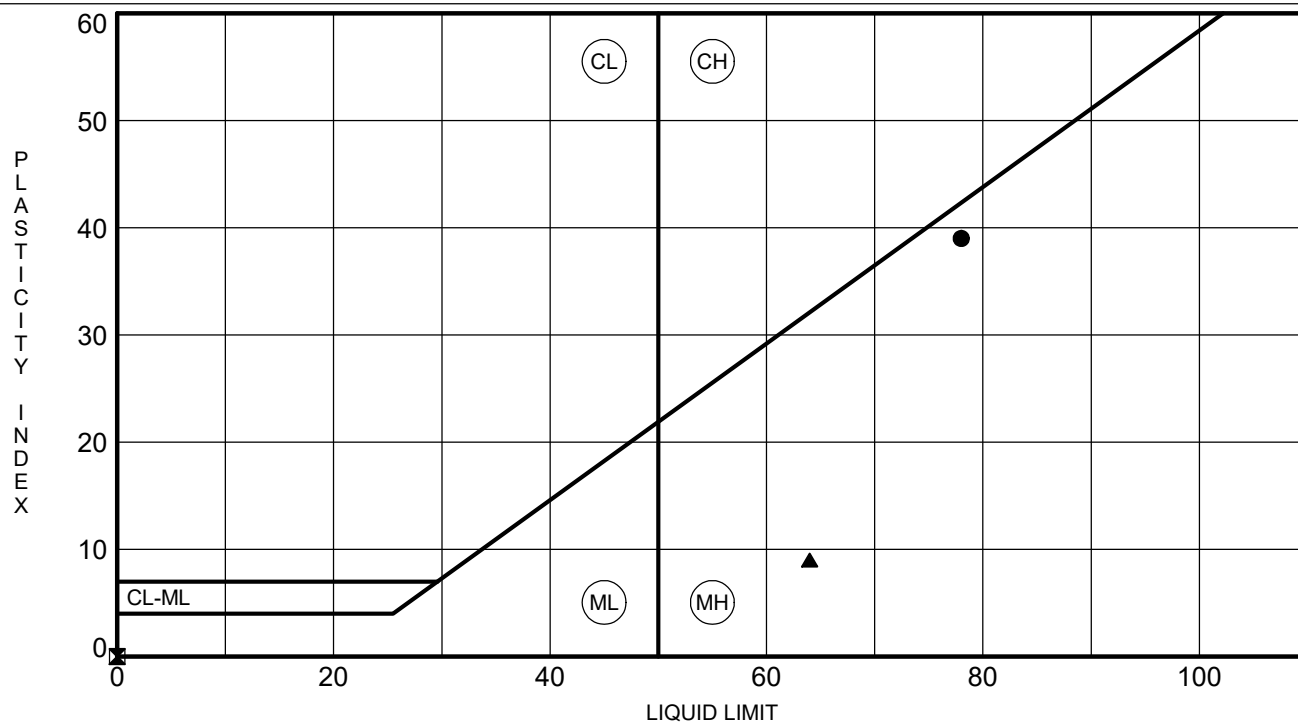
PROJECT COUNTY Richland



PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

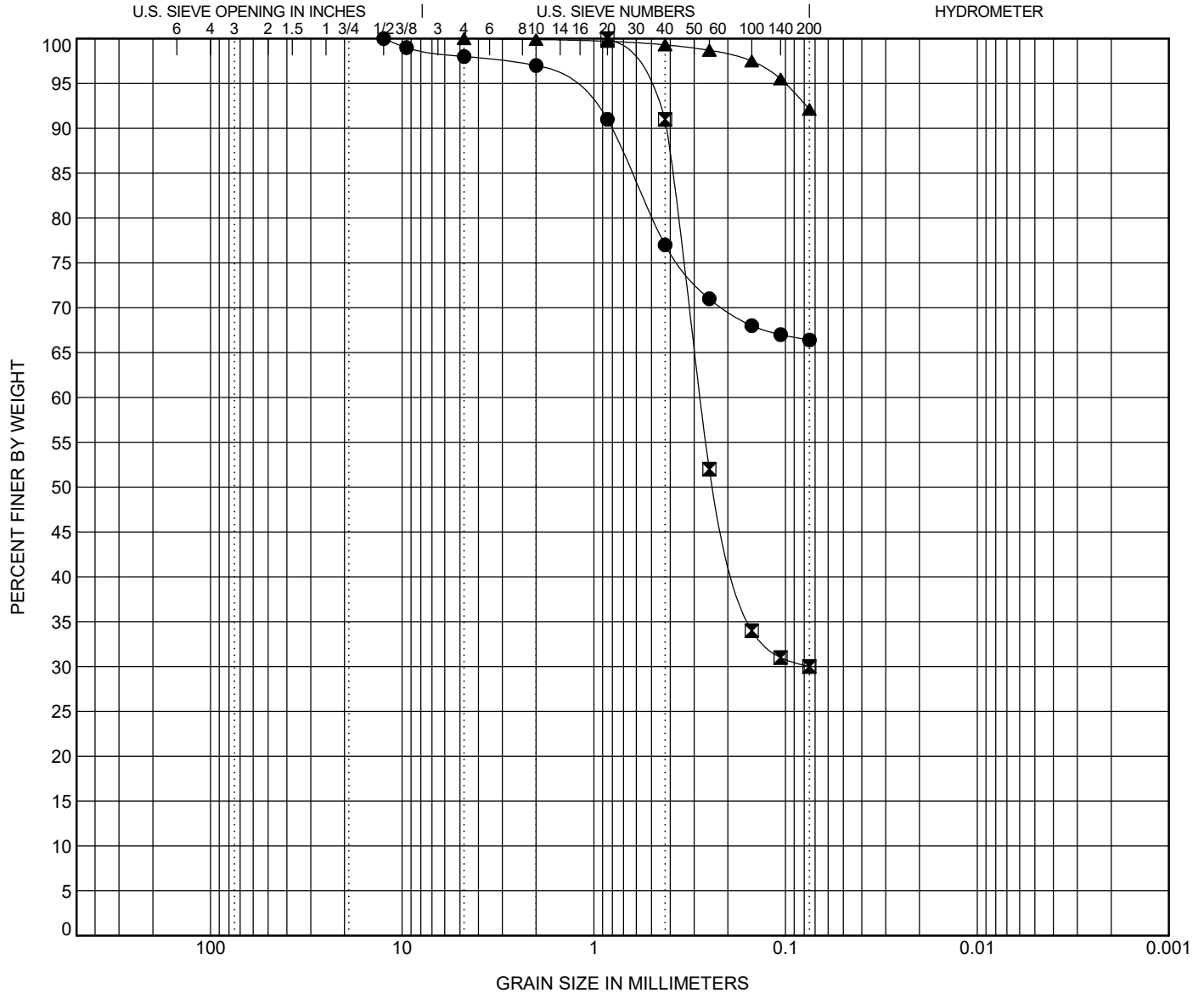
PROJECT COUNTY Richland

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PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-113	19.1	SANDY ELASTIC SILT(MH)					78	39	39		
☒ G-113	29.1	SILTY SAND(SM)					NP	NP	NP		
▲ G-113	39.1	ELASTIC SILT(MH)					64	55	9		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-113	19.1	12.5				2.0	31.6	66.4			
☒ G-113	29.1	0.85	0.279	0.075		0.0	70.0	30.0			
▲ G-113	39.1	4.75				0.0	7.9	92.1			

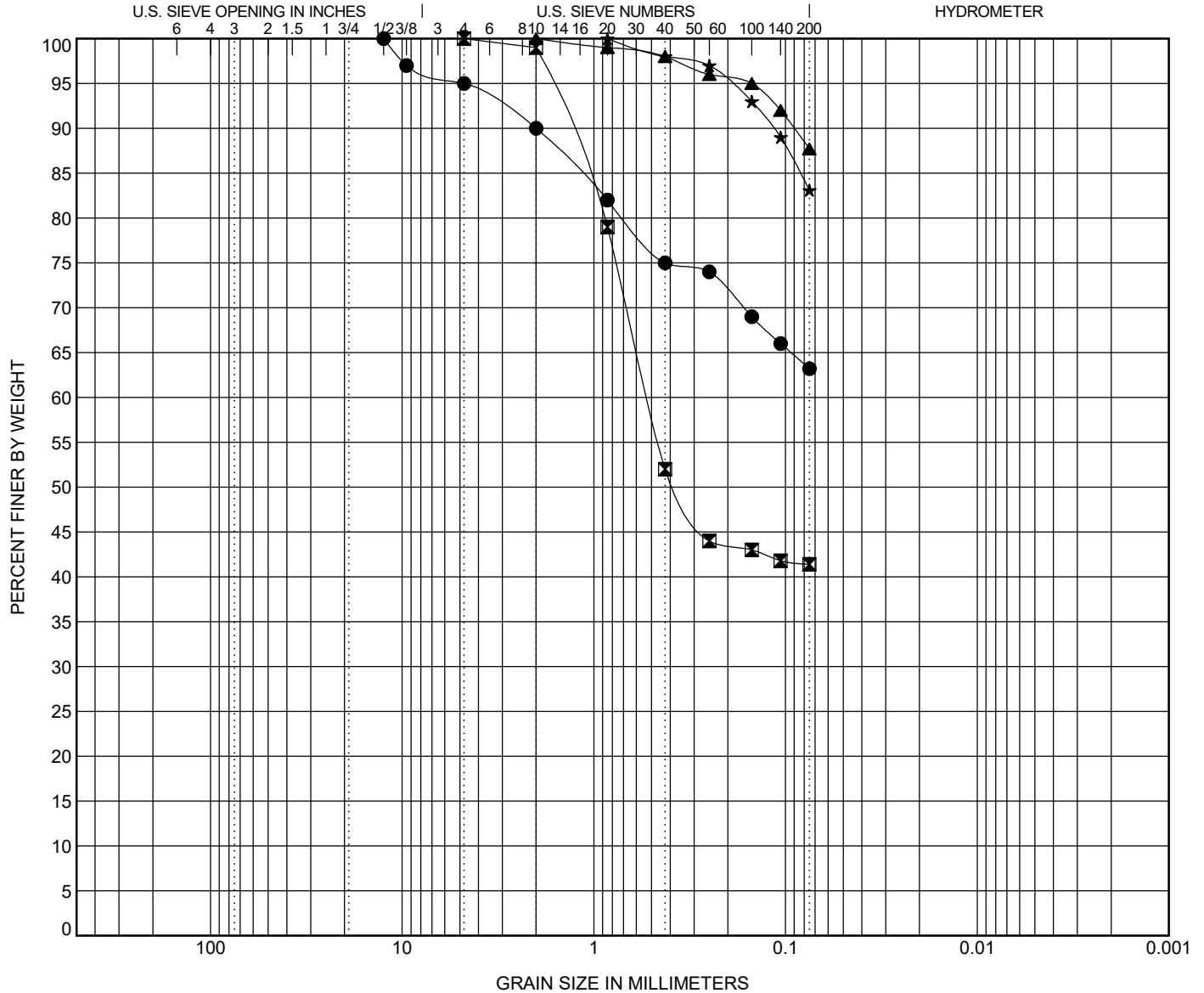
PROJECT COUNTY Richland

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PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

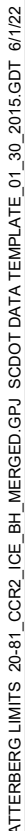
PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-114	4.0	SANDY SILT(ML)					34	30	4		
☒ G-114	19.2	CLAYEY SAND(SC)					63	30	33		
▲ G-114	34.2	ELASTIC SILT(MH)					59	54	5		
★ G-114	49.2	ELASTIC SILT with SAND(MH)					50	46	4		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-114	4.0	12.5				5.0	31.8	63.2			
☒ G-114	19.2	4.75	0.522			0.0	58.6	41.4			
▲ G-114	34.2	2				0.0	12.3	87.7			
★ G-114	49.2	0.85				0.0	16.9	83.1			

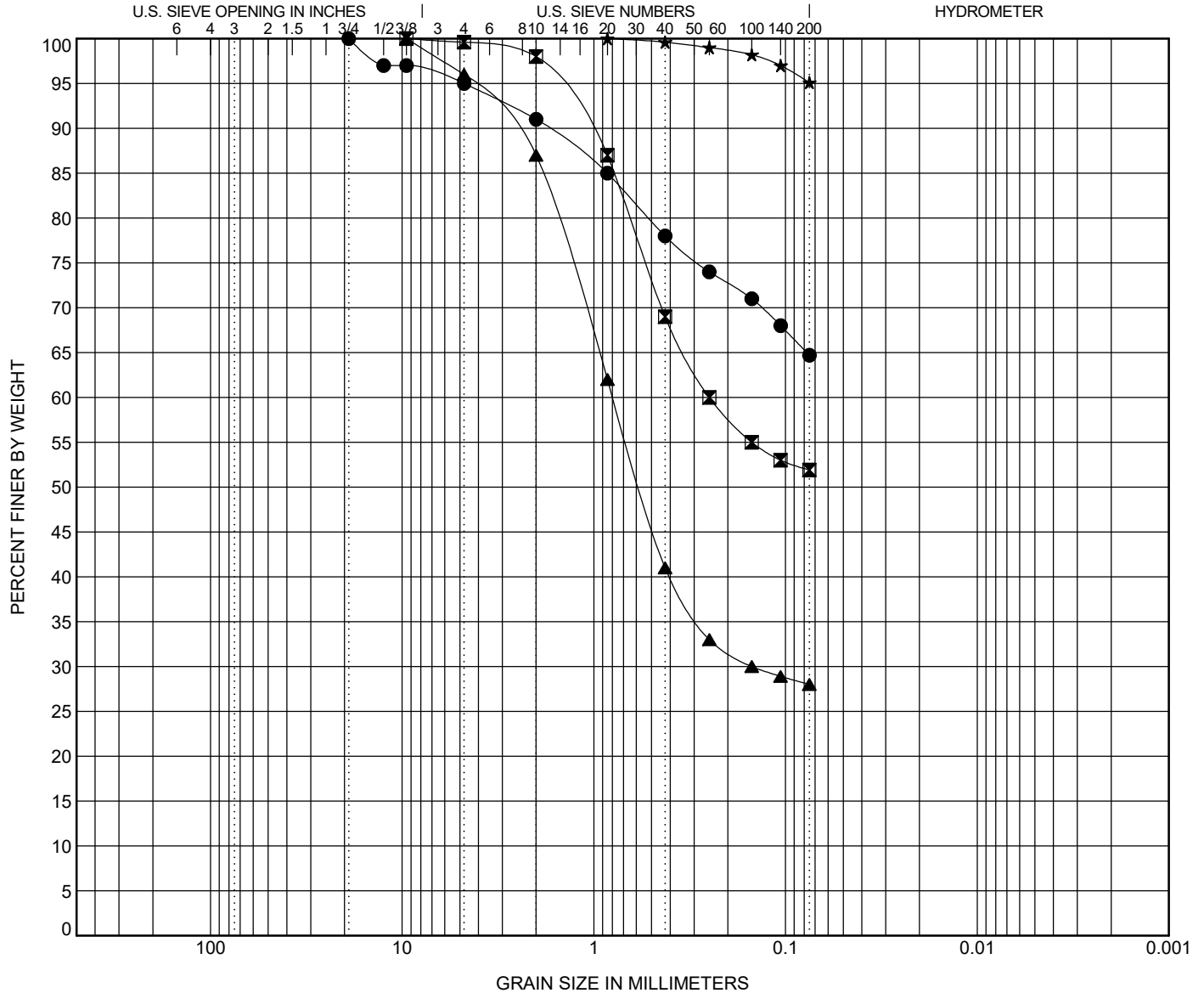
PROJECT COUNTY Richland

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PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

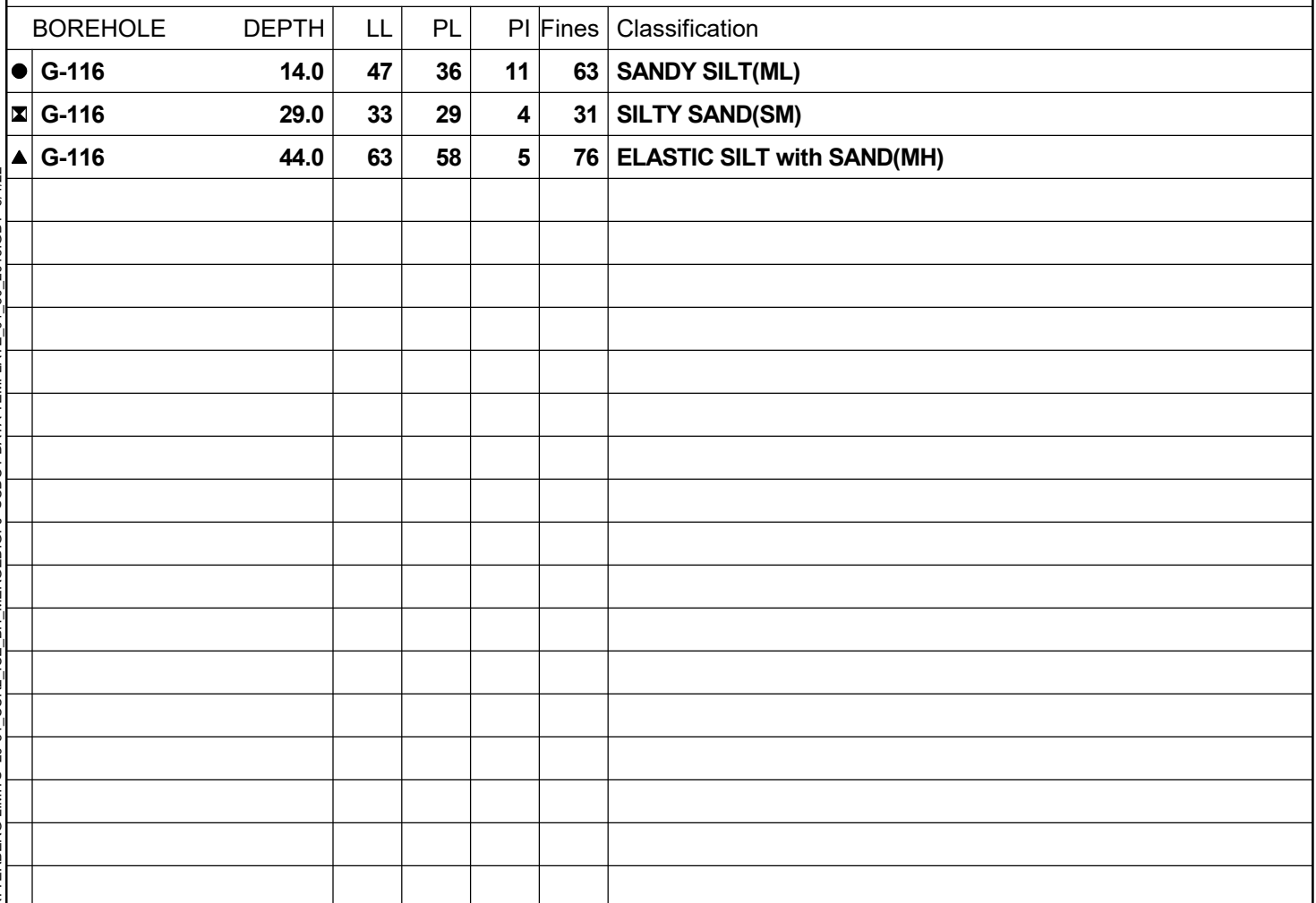


COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification	LL	PL	PI	Cc	Cu
● G-115	2.0	SANDY SILT(ML)	35	30	5		
☒ G-115	14.5	SANDY SILT(ML)	45	34	11		
▲ G-115	34.5	SILTY SAND(SM)	40	29	11		
★ G-115	54.5	ELASTIC SILT(MH)	69	52	17		

BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● G-115	2.0	19				5.0	30.3	64.7	
☒ G-115	14.5	9.5	0.25			0.4	47.7	51.9	
▲ G-115	34.5	9.5	0.796	0.15		4.0	68.0	28.0	
★ G-115	54.5	0.85				0.0	4.9	95.1	

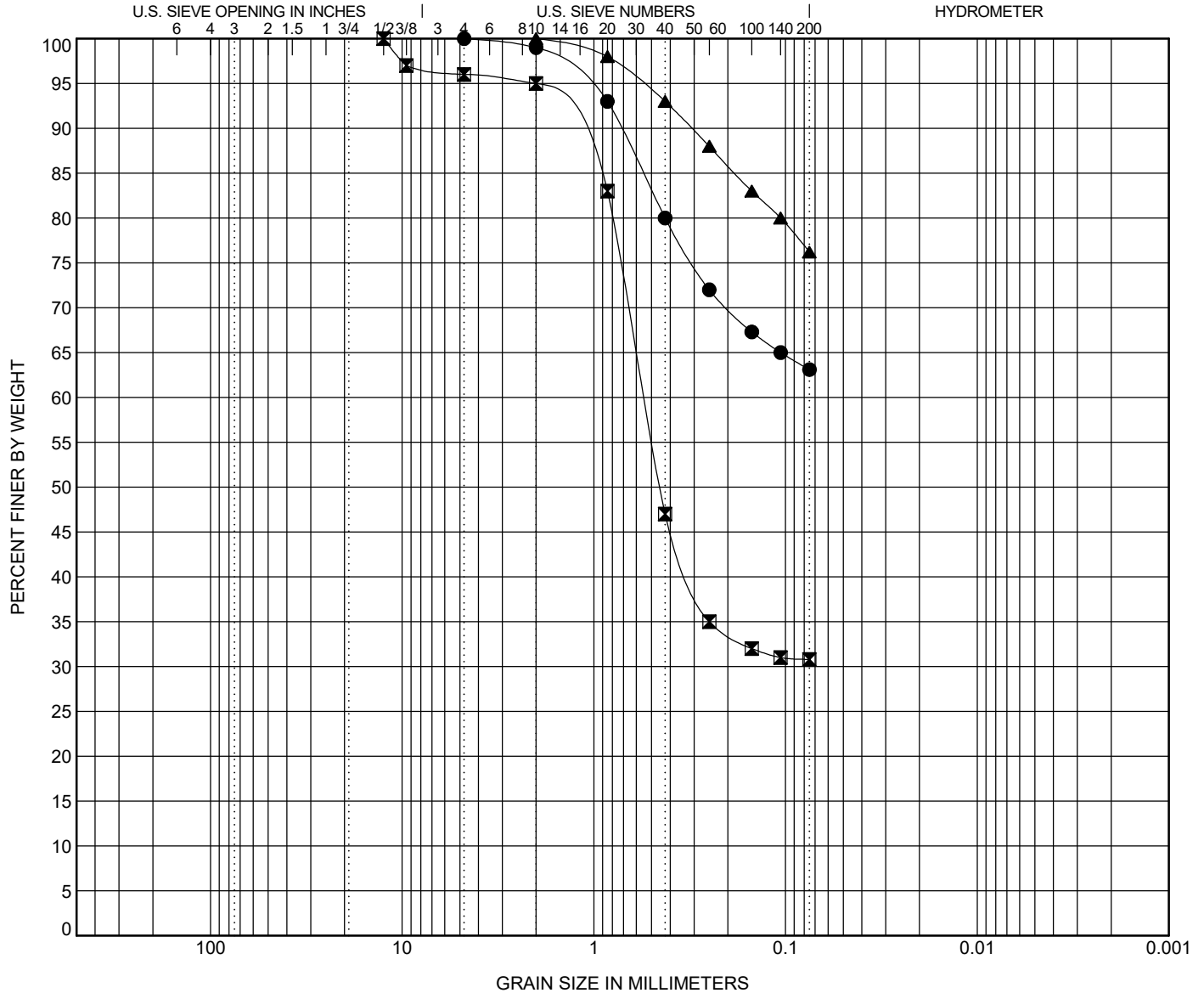
PROJECT COUNTY Richland



PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-116	14.0	SANDY SILT (ML)					47	36	11		
☒ G-116	29.0	SILTY SAND (SM)					33	29	4		
▲ G-116	44.0	ELASTIC SILT with SAND (MH)					63	58	5		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-116	14.0	4.75				0.0	36.9	63.1			
☒ G-116	29.0	12.5	0.546			4.0	65.2	30.8			
▲ G-116	44.0	2				0.0	23.8	76.2			

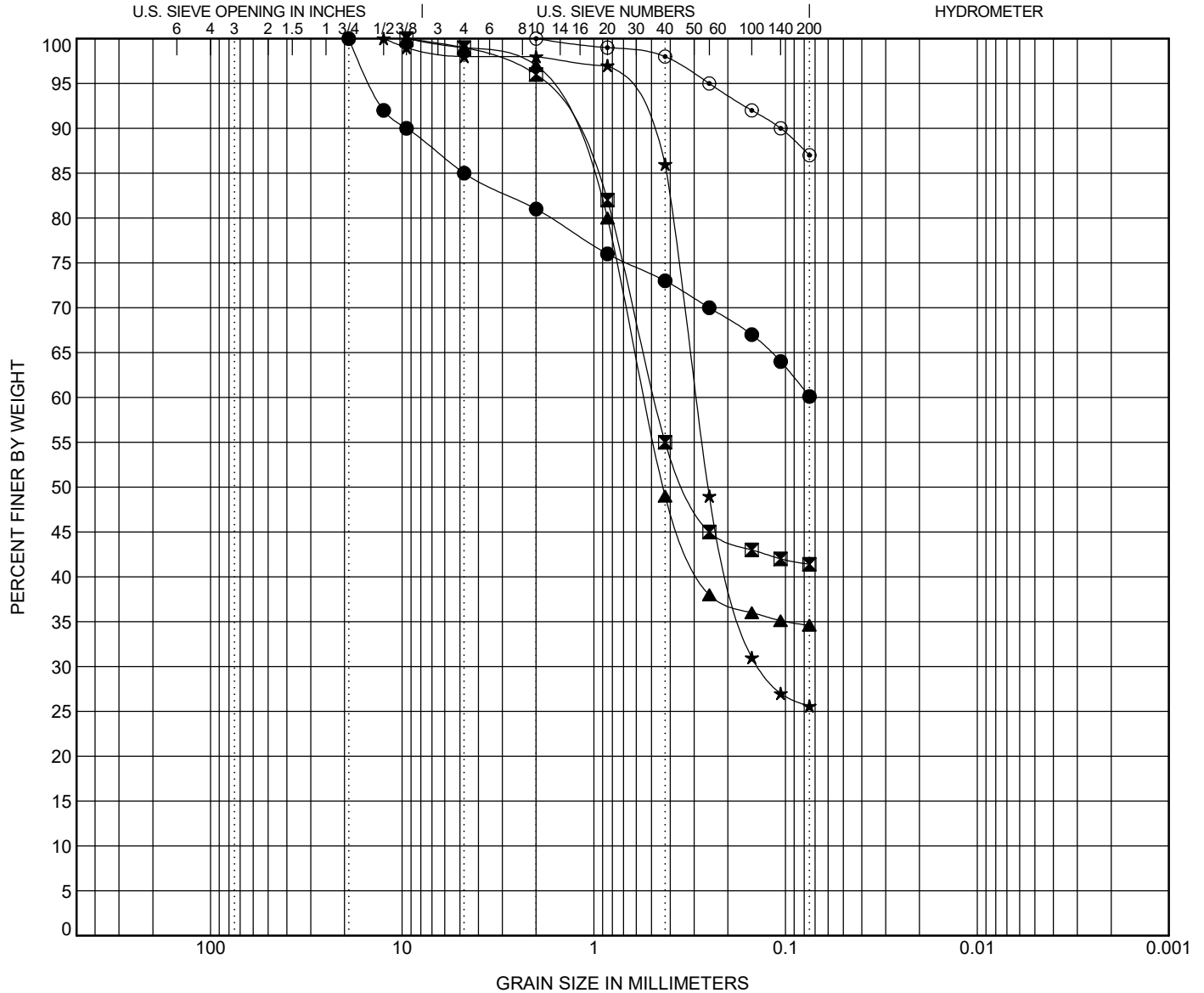
PROJECT NAME Carolina Crossroads Phase 2

[illegible]

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-117	6.0	SANDY SILT with GRAVEL(ML)					34	31	3		
☒ G-117	14.3	SILTY SAND(SM)					64	37	27		
▲ G-117	24.3	SILTY SAND(SM)					46	29	17		
★ G-117	34.3	SILTY SAND(SM)					28	24	4		
◎ G-117	39.3	ELASTIC SILT(MH)					52	38	14		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-117	6.0	19				15.0	24.9	60.1			
☒ G-117	14.3	9.5	0.483			1.0	57.6	41.4			
▲ G-117	24.3	9.5	0.544			1.0	64.4	34.6			
★ G-117	34.3	12.5	0.293	0.138		2.0	72.4	25.6			
◎ G-117	39.3	2				0.0	13.0	87.0			

Client

Infrastructure Consulting & Engineering, PLLC

Project

Carolina Crossroads Phase 1

Sample Submitted By: Terracon (73)

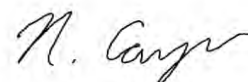
Date Received: 3/4/2022

Lab No.: 22-0219

Results of Corrosion Analysis

Sample Number	--	--
Sample Location	G-138	G-129
Sample Depth (ft.)	0.0-7.0	0.0-5.0
pH Analysis, ASTM G 51	6.38	6.48
Water Soluble Sulfate (SO ₄), ASTM C 1580 (mg/kg)	36	45
Chlorides, ASTM D 512, (mg/kg)	47	30
Saturated Minimum Resistivity, ASTM G 187, (ohm-cm)	24735	34920

Analyzed By:



Nathan Campo
Engineering Technician II

The tests were performed in general accordance with applicable ASTM and AWWA test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

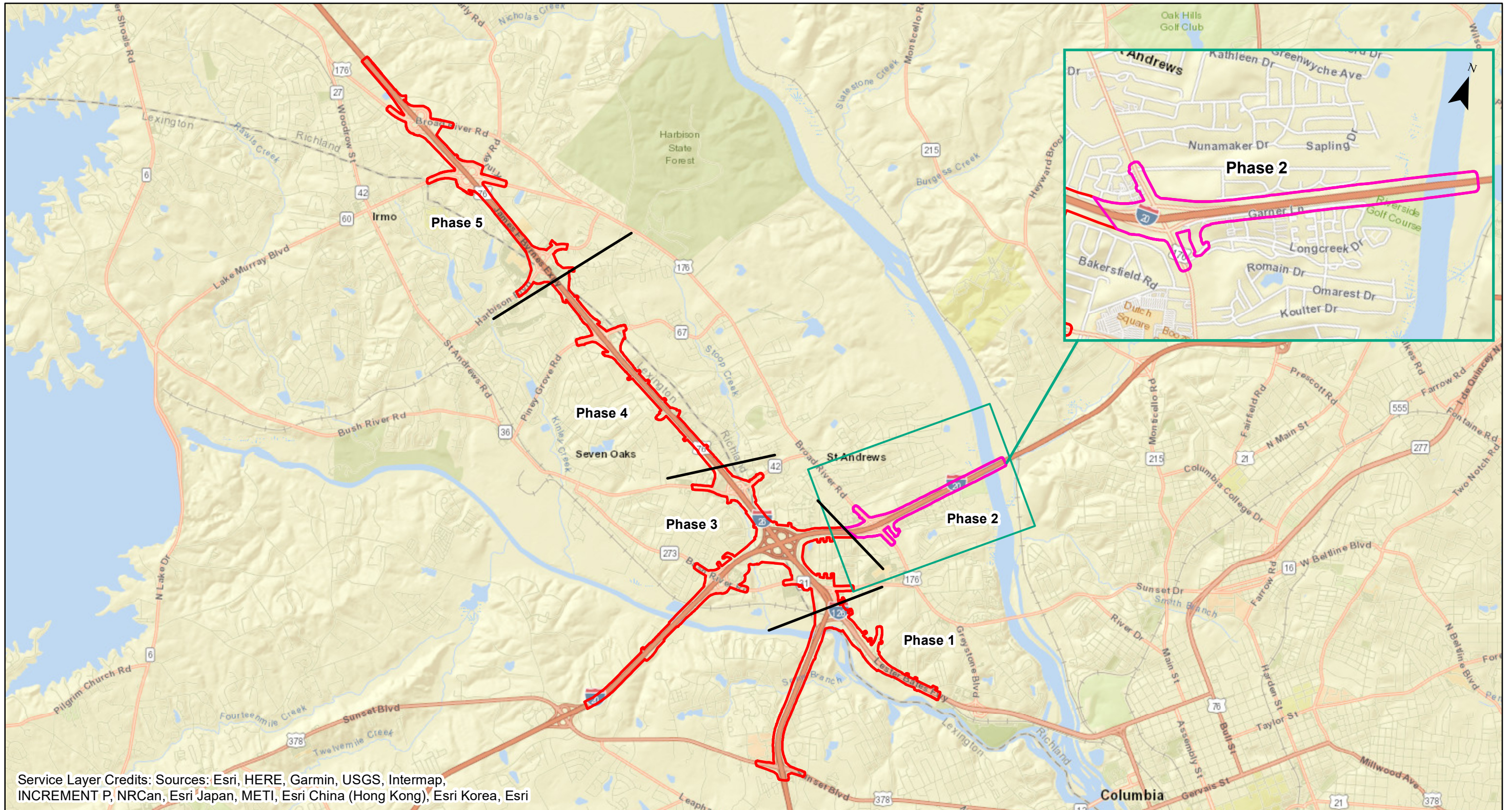
APPENDIX D – ROADWAY

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX D – ROADWAY

SECTION 1 SITE LOCATION PLAN

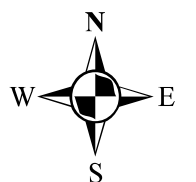
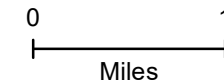


Date: 03.22.2022



Figure 1. Vicinity Map

Carolina Crossroads Phase 2
Richland County, SC



Carolina Crossroads - Phase 2

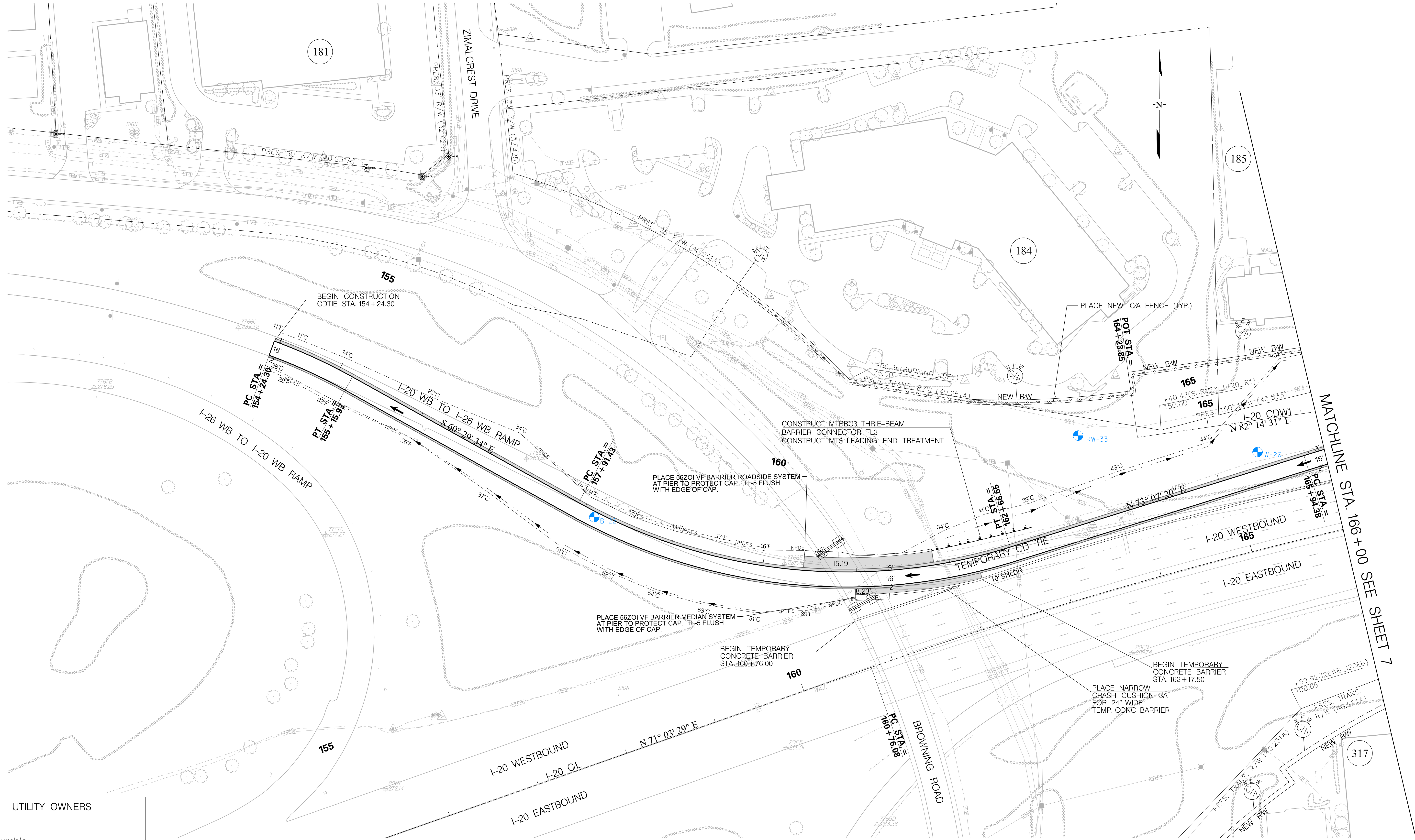
Geotechnical Subsurface Data Report

APPENDIX D – ROADWAY

SECTION 2 BORING LOCATION PLANS

NOTE:
RIGHT OF WAY SECURED UNDER PROJECT ID P027662

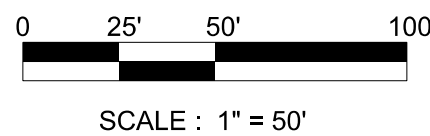
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3	SC	RICHLAND	P039719	I-20	6



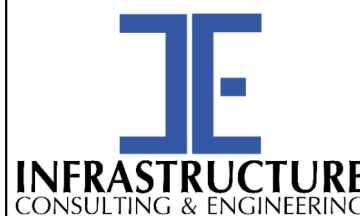
UTILITY OWNERS

AT&T
Charter
City of Columbia
Dominion Energy - Gas
Dominion Energy - Power Distribution
Lumen (fka CenturyLink)
SCDOT ITS
SEGRA
Synergy Utilities
Verizon

NOTE:
For Contact Information See Utility Plans.



ALIGNMENT CONTROL CAN BE FOUND ON
REFERENCE DATA SHEET



PRELIMINARY
NOT FOR CONSTRUCTION

SCALE: 1" = 50'

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION	

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CAROLINA CROSSROADS PHASE 2

PLAN SHEET

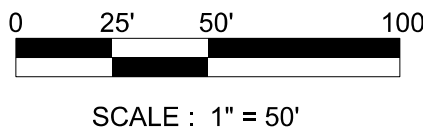
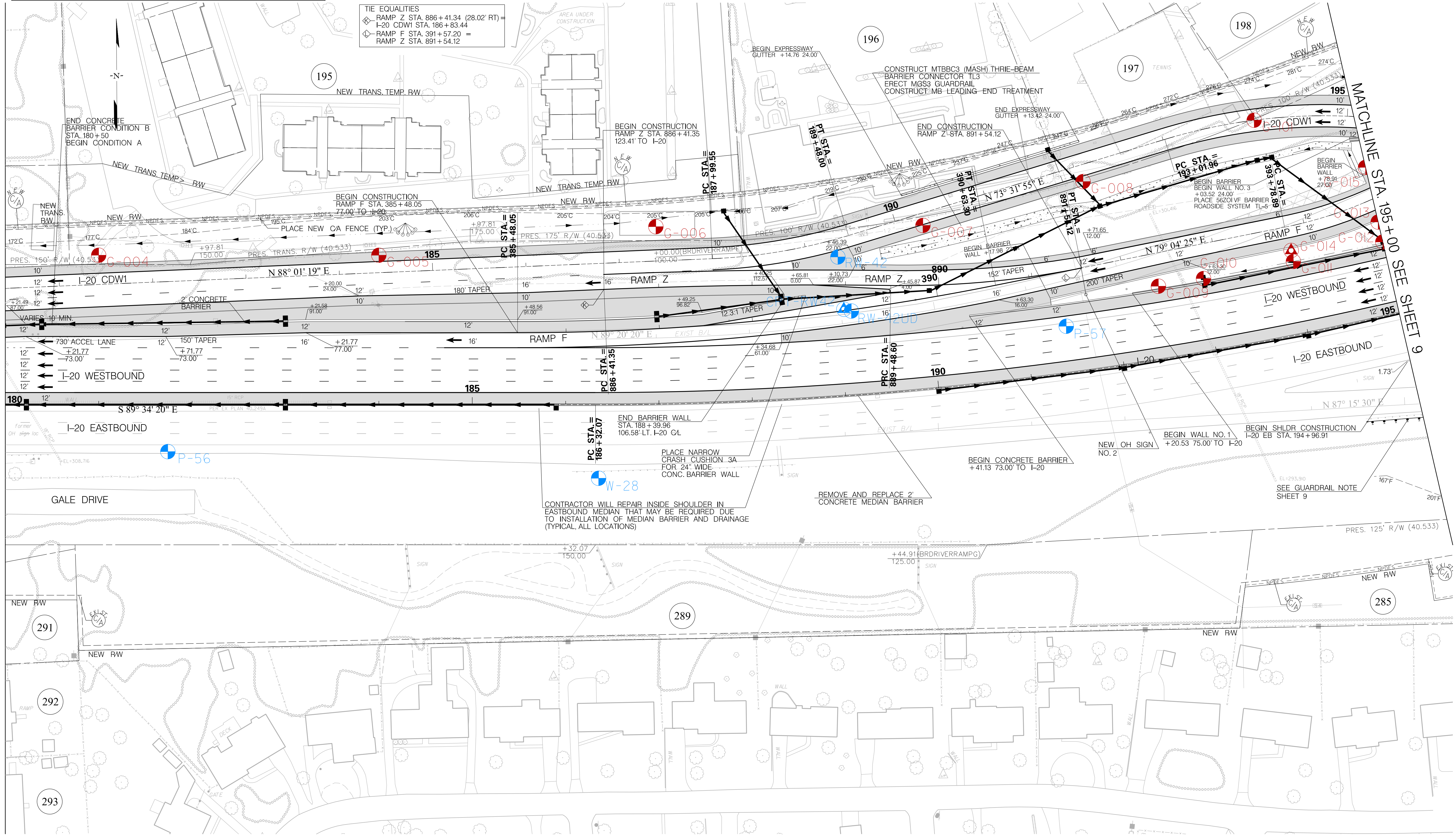
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3	SC	RICHLAND	P039719	I-20	8

NOTE:
RIGHT OF WAY SECURED UNDER PROJECT ID P027662

TIE EQUALITIES
RAMP Z STA. 886+41.34 (28.02' RT) =
I-20 CDW1 STA. 186+83.44
RAMP F STA. 391+57.20 =
RAMP Z STA. 891+54.12

MATCHLINE STA. 180+00 SEE SHEET 7

MATCHLINE STA. 195+00 SEE SHEET 9



ALIGNMENT CONTROL CAN BE FOUND ON
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ARCHER UNITED
JOINT VENTURE

IE
INFRASTRUCTURE
CONSULTING & ENGINEERING

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE: 1" = 50'

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SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CAROLINA CROSSROADS PHASE 2

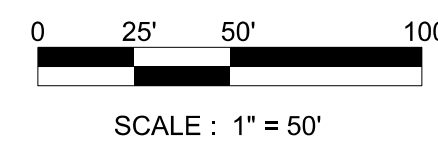
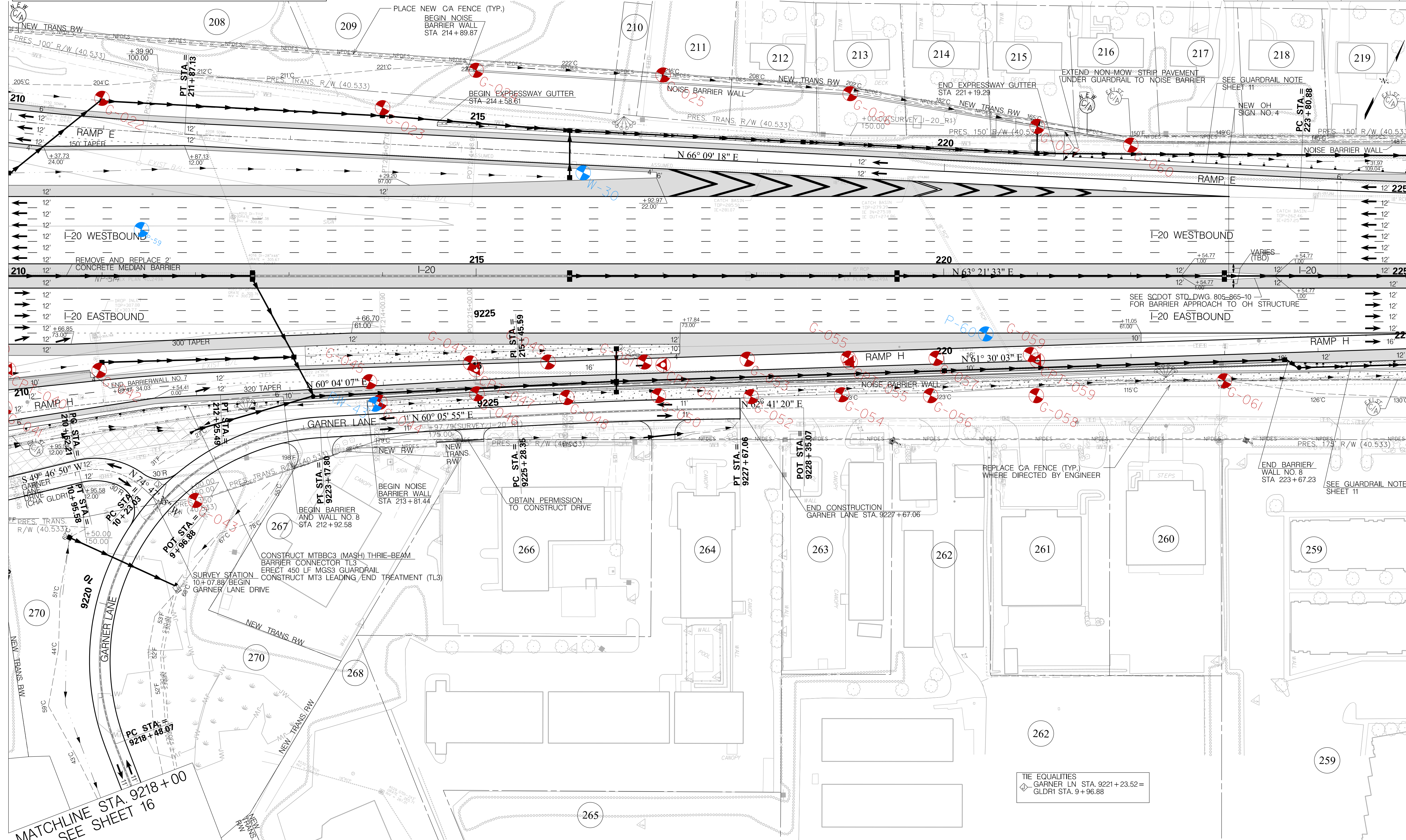
PLAN SHEET

NOTE:
RIGHT OF WAY SECURED UNDER PROJECT ID P027662

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	RICHLAND	P039719	I-20	10

MATCHLINE STA. 210+00 SEE SHEET 9

MATCHLINE STA. 225+00 SEE SHEET 11



ALIGNMENT CONTROL CAN BE FOUND ON
REFERENCE DATA SHEET



PRELIMINARY
NOT FOR CONSTRUCTION

SCALE: 1" = 50'

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SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CAROLINA CROSSROADS PHASE 2

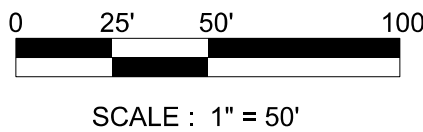
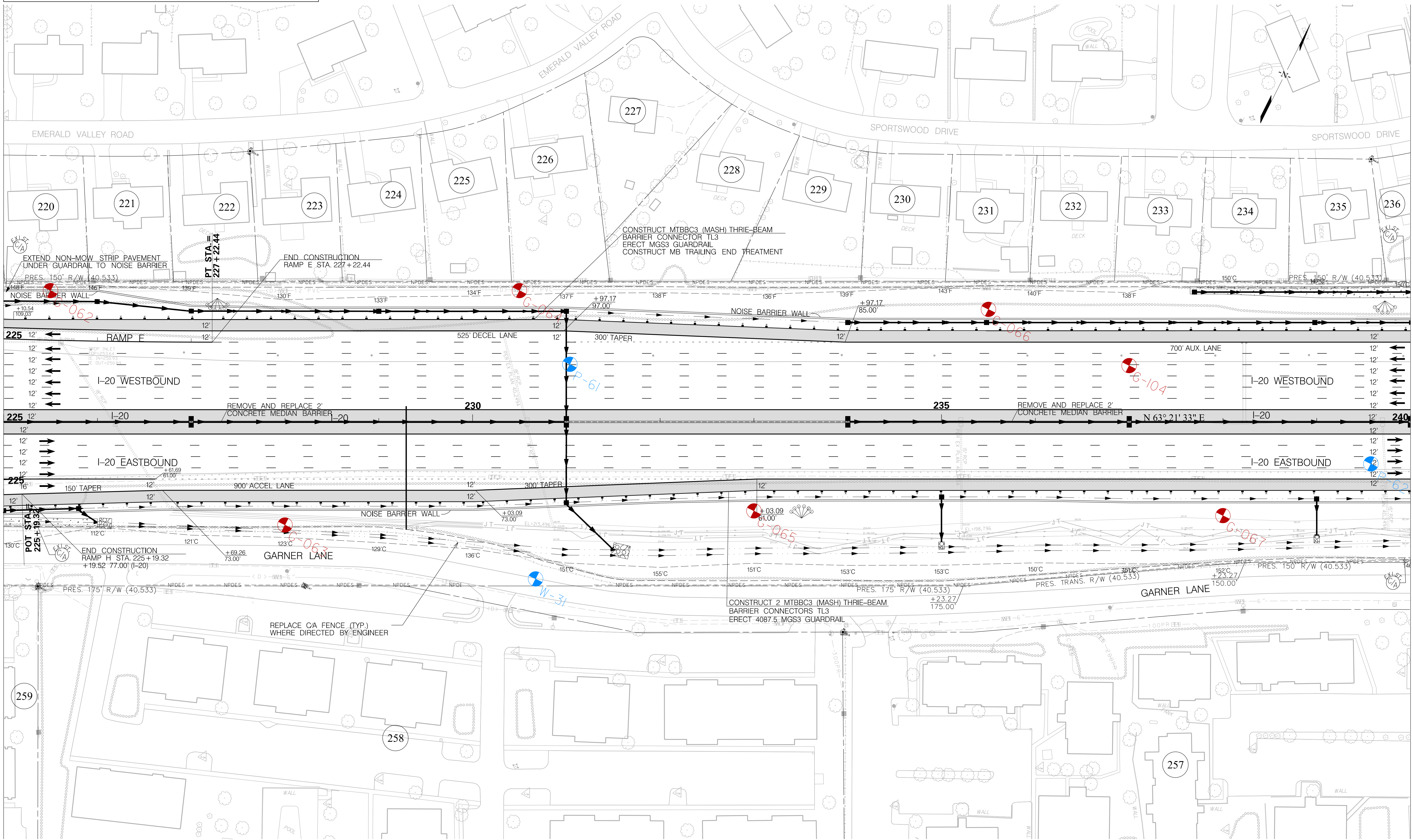
PLAN SHEET

NOTE:
RIGHT OF WAY SECURED UNDER PROJECT ID P027662

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	RICHLAND	P039719	I-20	11

MATCHLINE STA. 225+00 SEE SHEET 10

MATCHLINE STA. 240+00 SEE SHEET 12



ALIGNMENT CONTROL CAN BE FOUND ON
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PRELIMINARY
NOT FOR CONSTRUCTION

SCALE: 1" = 50'

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SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CAROLINA CROSSROADS PHASE 2

PLAN SHEET

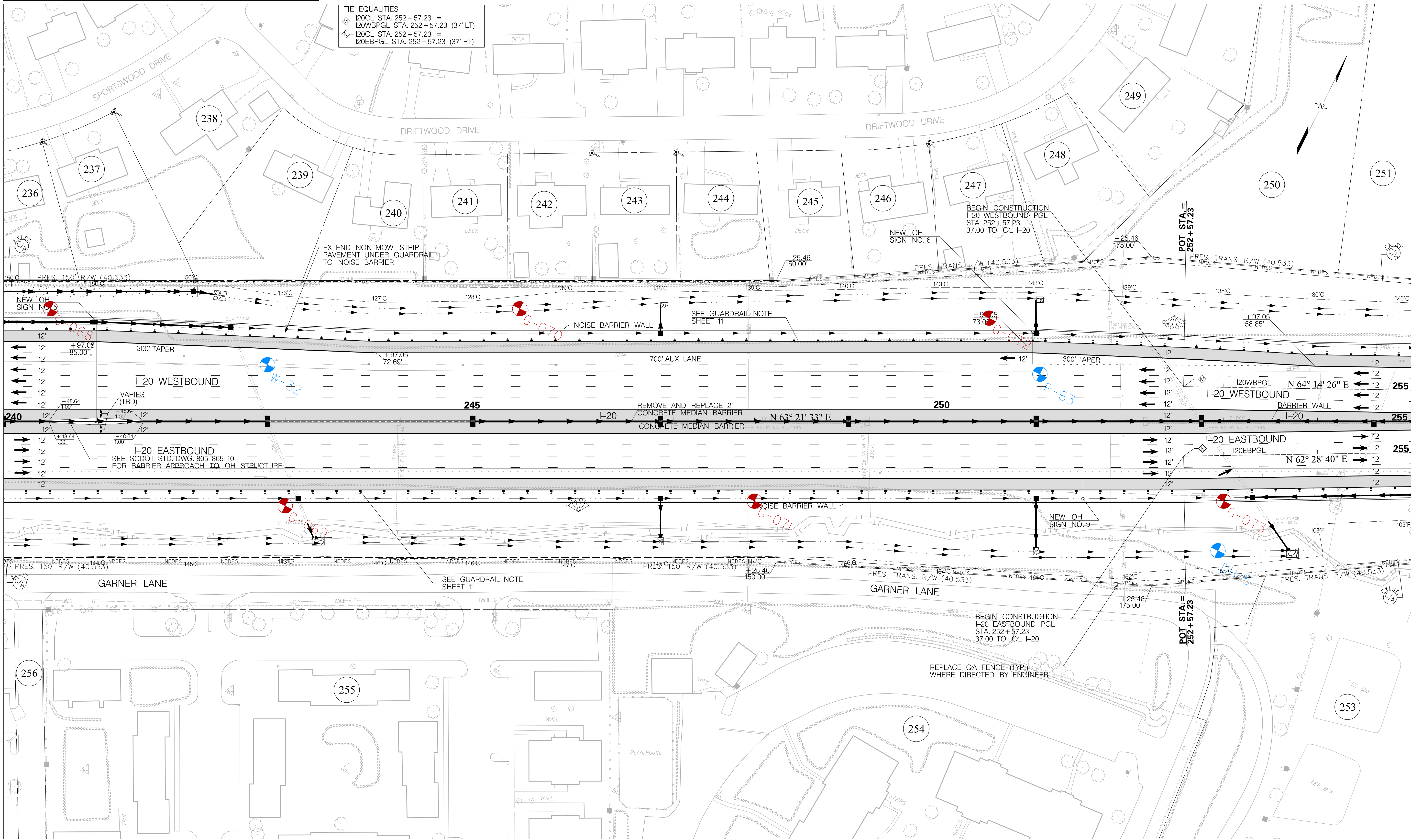
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4/19/2022

MATCHLINE STA. 240+00 SEE SHEET 11

NOTE:
RIGHT OF WAY SECURED UNDER PROJECT ID P027662

TIE EQUALITIES
I20CL STA. 252+57.23 =
I20WBPGL STA. 252+57.23 (37' LT)
I20CL STA. 252+57.23 =
I20EBPGL STA. 252+57.23 (37' RT)

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	RICHLAND	P039719	I-20	12



MATCHLINE STA. 255+00 SEE SHEET 13

0 25' 50' 100'

SCALE : 1" = 50'

ARCHER UNITED

JOINT VENTURE

IE

INFRASTRUCTURE

CONSULTING & ENGINEERING

PRELIMINARY

NOT FOR CONSTRUCTION

SCALE: 1" = 50'

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION	

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CAROLINA CROSSROADS PHASE 2

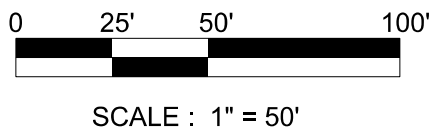
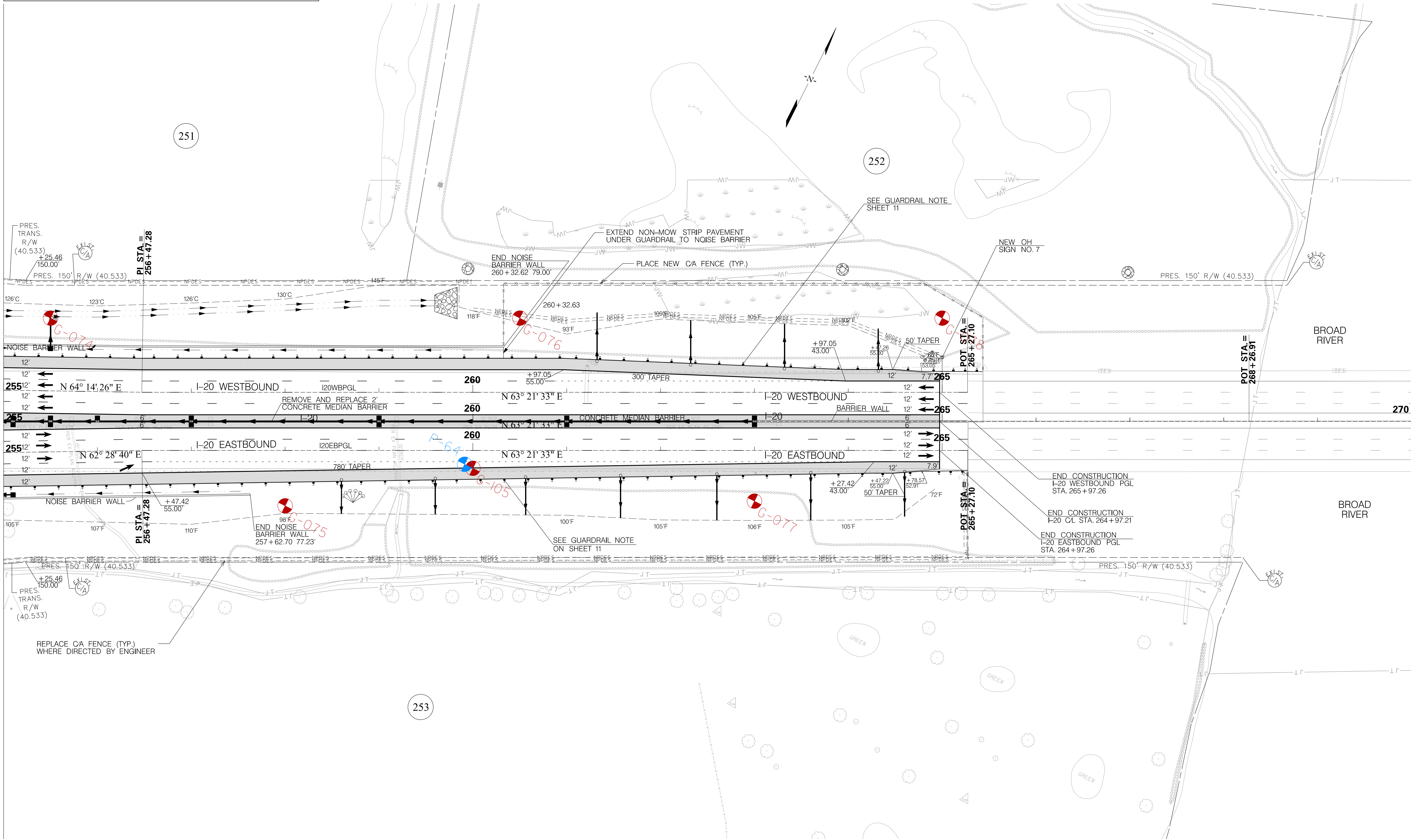
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NOTE:
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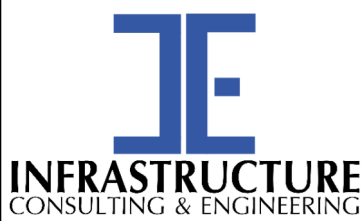
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3	SC	RICHLAND	P039719	I-20	13

MATCHLINE STA. 255 + 00 SEE SHEET 12

MATCHLINE STA. 270 + 00 SEE SHEET 14



ALIGNMENT CONTROL CAN BE FOUND ON
REFERENCE DATA SHEET



PRELIMINARY
NOT FOR CONSTRUCTION

SCALE: 1" = 50'

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SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

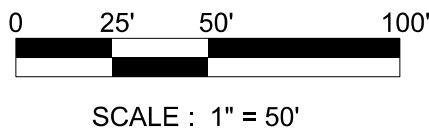
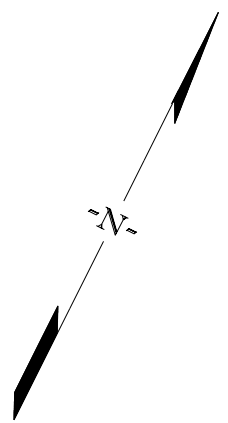
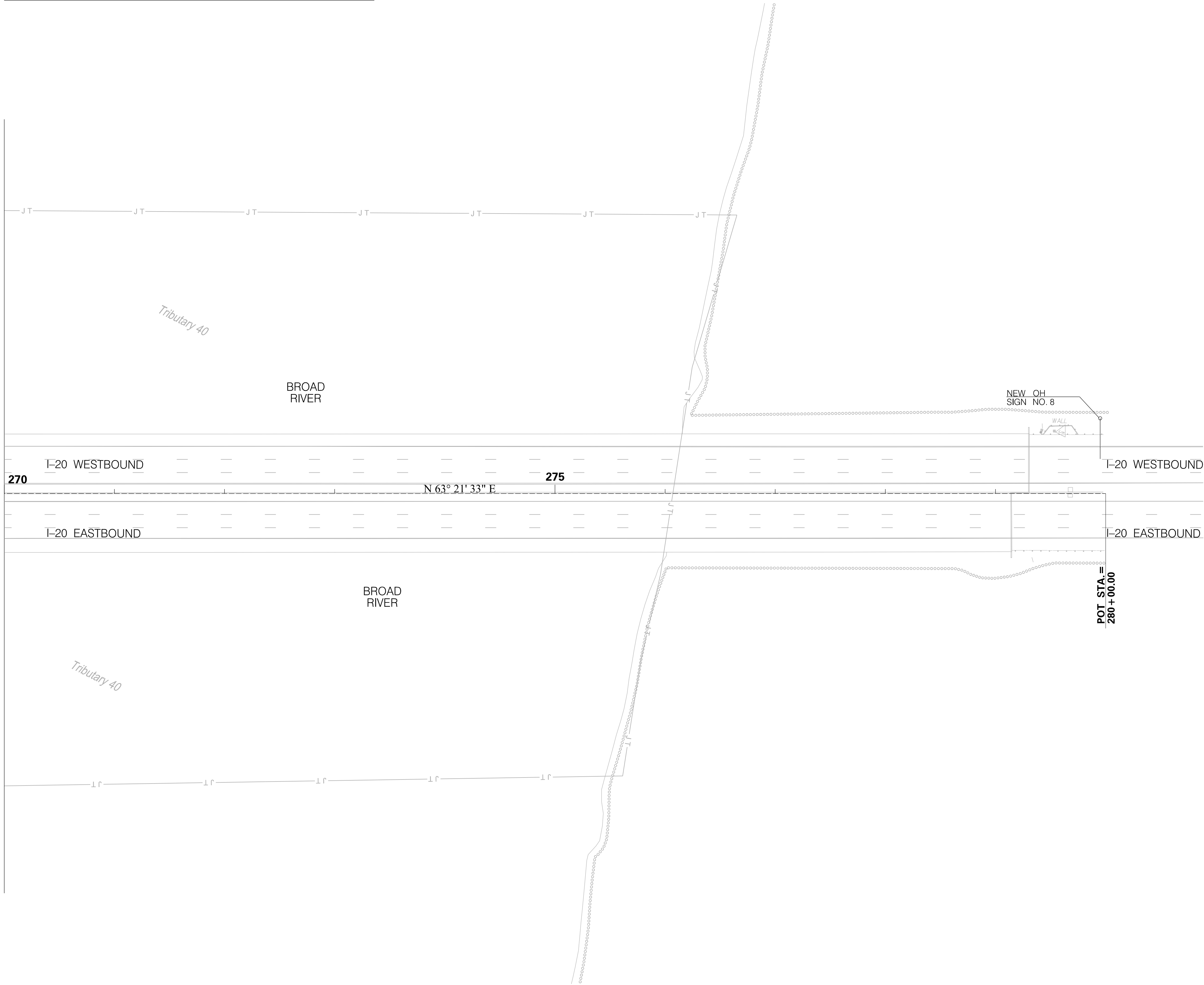
CAROLINA CROSSROADS PHASE 2

PLAN SHEET

NOTE:
RIGHT OF WAY SECURED UNDER PROJECT ID P027662

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3	SC	RICHLAND	P039719	I-20	14

MATCHLINE STA. 270 + 00 SEE SHEET 13



ALIGNMENT CONTROL CAN BE FOUND ON
REFERENCE DATA SHEET



PRELIMINARY
NOT FOR CONSTRUCTION

SCALE: 1" = 50'

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SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

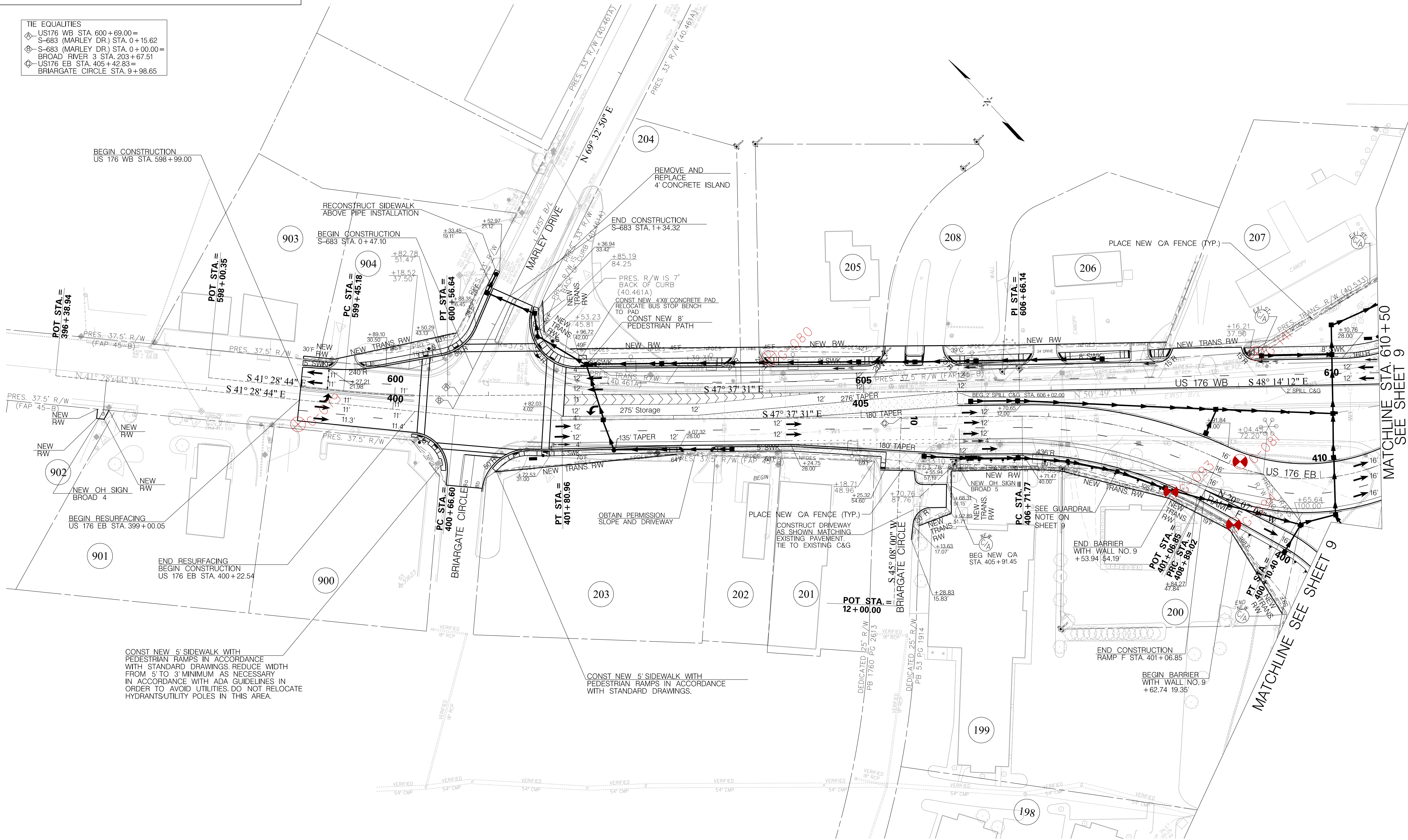
CAROLINA CROSSROADS PHASE 2

PLAN SHEET

NOTE:
RIGHT OF WAY SECURED UNDER PROJECT ID P027662

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	RICHLAND	P039719	I-20	15

TIE EQUALITIES
US176 WB STA. 600+69.00=
S-683 (MARLEY DR.) STA. 0+15.62
S-683 (MARLEY DR.) STA. 0+00.00=
BROAD RIVER 3 STA. 203+67.51
US176 EB STA. 405+42.83=
BRIARGATE CIRCLE STA. 9+98.65



025'50'100'

SCALE : 1" = 50'

ALIGNMENT CONTROL CAN BE FOUND ON
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ARCHER
UNITED

JOINT VENTURE

IE

INFRASTRUCTURE

CONSULTING & ENGINEERING

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE: 1" = 50'

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SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

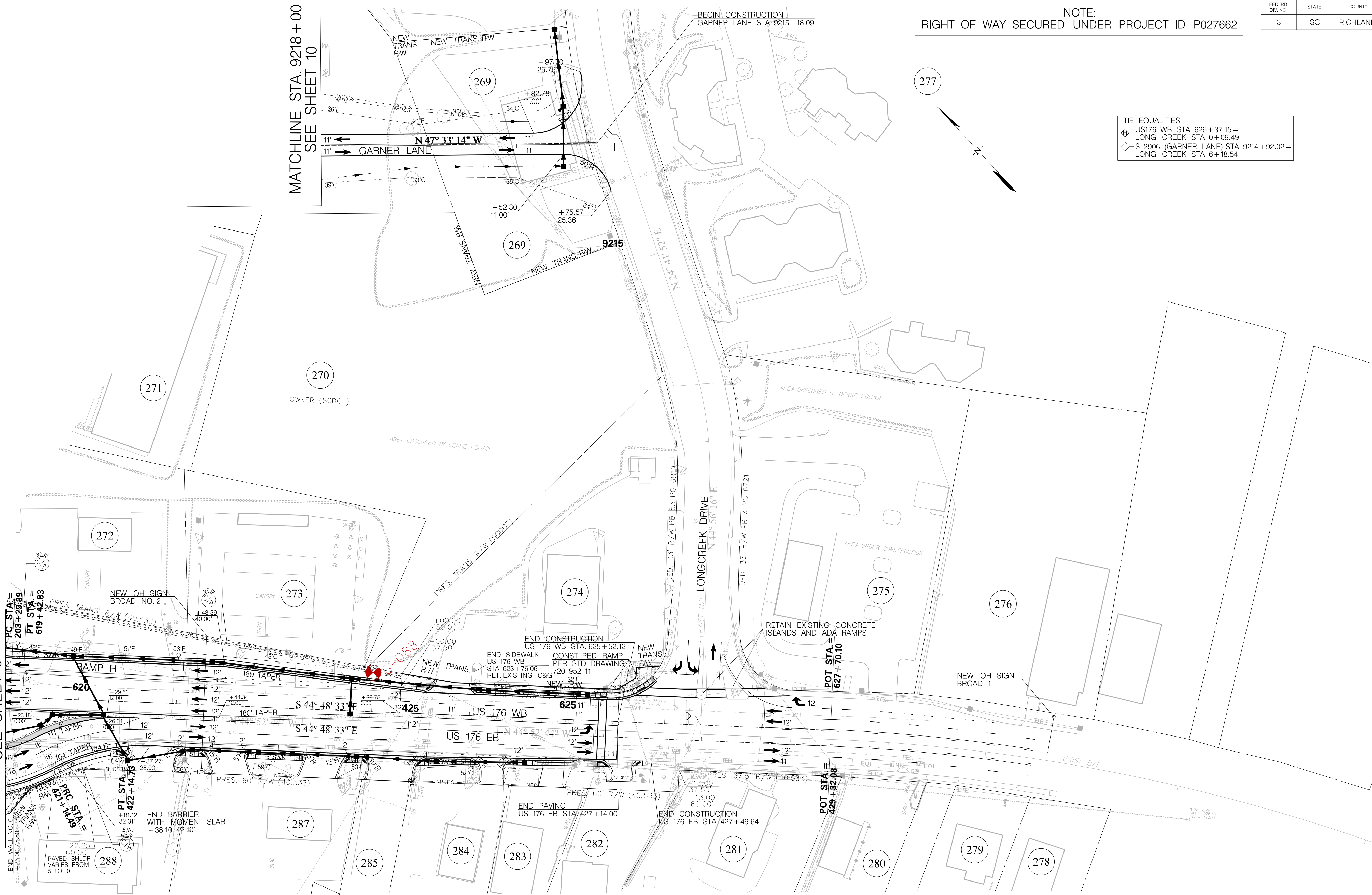
CAROLINA CROSSROADS PHASE 2

PLAN SHEET

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4/19/2022

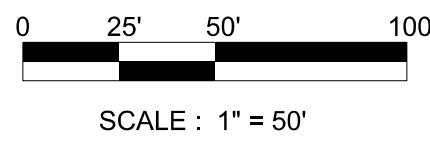
MATCHLINE STA. 619+25
SEE SHEET 9

MATCHLINE STA. 9218+00
SEE SHEET 10



NOTE:
RIGHT OF WAY SECURED UNDER PROJECT ID P027662

TIE EQUALITIES
US176 WB STA. 626+37.15 =
LONG CREEK STA. 0+09.49
S-2906 (GARNER LANE) STA. 9214+92.02 =
LONG CREEK STA. 6+18.54



ALIGNMENT CONTROL CAN BE FOUND ON
REFERENCE DATA SHEET



PRELIMINARY
NOT FOR CONSTRUCTION

SCALE: 1" = 50'

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SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CAROLINA CROSSROADS PHASE 2

PLAN SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	RICHLAND	P039719	I-20	16

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX D – ROADWAY

SECTION 3 FIELD TESTING LOGS

Carolina Crossroads Phase 2
Richland County, SC
Boring Location Summary

Boring Name	Latitude	Longitude	Northing	Easting	Alignment	Station	Offset	Elevation (feet)	Depth (feet)	0 Hr GW (feet)	0 Hr GW Elevation (feet)	24 Hr GW (feet)	24 Hr GW Elevation (feet)	Drilling Method	Test Type	Purpose/Location
CPT-040	34.04	-81.0915	802875.4157	1972282.018	I20CL	210+00	100 RT	310.4	20.5	N/A	N/A	N/A	N/A	CPT	CPT	Retaining Wall
CPT-047	34.0406	-81.09002	803099.614	1972728.936	I20CL	215+00	100 RT	294.8	25.4	N/A	N/A	N/A	N/A	CPT	CPT	Retaining Wall
CPT-051	34.0409	-81.08944	803193.7624	1972905.461	I20CL	217+00	95 RT	288.3	25.4	N/A	N/A	N/A	N/A	CPT	CPT	Retaining Wall
CPT-055	34.0411	-81.08885	803286.1232	1973082.882	I20CL	219+00	92 RT	280.2	25.4	N/A	N/A	N/A	N/A	CPT	CPT	Retaining Wall
CPT-059	34.0414	-81.08827	803377.5902	1973260.753	I20CL	221+00	90 RT	271.3	17.2	N/A	N/A	N/A	N/A	CPT	CPT	Retaining Wall
DR-1	34.0387	-81.10499	802409.5213	1968195.481	I20CL	168+60	170 LT	273.3	1.5	0.3	273.0	0.2	273.1	Hand Auger	Hand Auger with DCP	48" Pipe
DR-2	34.0385	-81.10493	802320.8336	1968210.794	I20CL	168+60	80 LT	284.9	7.0	Dry	N/A	Dry	N/A	Hand Auger	Hand Auger with DCP	48" Pipe
DR-3	34.0395	-81.09604	802683.4469	1970905.278	I20CL	196+21	265 LT	287.0	39.8	8.3	278.7	8.3	278.7	RW	SPT	Culvert
DR-4	34.0391	-81.09585	802525.8546	1970962.86	I20CL	196+38	98 LT	299.9	30.6	N/A	N/A	Dry	N/A	RW	SPT	Culvert
G-001	34.0387	-81.10382	802407.5895	1968548.993	I20CL	172+00	120 LT	276.3	24.5	N/A	N/A	3.1	273.2	RW	SPT	Roadway/Embankment
G-003	34.0388	-81.10147	802452.2453	1969261.361	I20CL	179+00	140 LT	305.4	15.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-004	34.0389	-81.10081	802470.7512	1969461.505	I20CL	181+00	160 LT	312.4	15.8	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-005	34.0389	-81.09982	802468.5109	1969761.496	I20CL	184+00	160 LT	326.2	22.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-006	34.039	-81.09884	802496.8689	1970058.334	I20CL	187+00	190 LT	319.3	16.9	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-007	34.039	-81.09789	802496.0543	1970344.319	I20CL	190+00	175 LT	308.3	15.6	Dry	N/A	9.3	299.0	RW	SPT	Roadway/Embankment
G-008	34.0391	-81.09732	802541.7252	1970516.141	I20CL	191+85	201 LT	304.3	25.6	12.3	292.0	4.8	299.5	RW	SPT	Roadway/Embankment
G-009	34.0388	-81.09706	802429.1328	1970595.97	I20CL	192+50	78 LT	309.7	15.8	N/A	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-010	34.0388	-81.0969	802436.9771	1970644.317	I20CL	193+00	78 LT	307.9	30.7	N/A	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-011	34.0389	-81.09658	802454.5607	1970740.681	I20CL	194+00	78 LT	304.8	45.8	N/A	N/A	32	272.8	RW	SPT	Retaining Wall
G-012	34.0389	-81.09627	802474.6608	1970836.552	I20CL	195+00	78 LT	301.9	40.2	N/A	N/A	19	282.9	RW	SPT	Retaining Wall
G-013	34.039	-81.09628	802496.1317	1970831.756	I20CL	195+00	100 LT	305.8	40.8	N/A	N/A	21.5	284.3	RW	SPT	Retaining Wall
G-014	34.0389	-81.09659	802466.3366	1970738.372	I20CL	194+00	90 LT	306.8	25.4	N/A	N/A	N/A	N/A	CPT	CPT	Retaining Wall
G-015	34.0391	-81.09633	802554.6888	1970818.676	I20CL	195+00	160 LT	307.1	30.8	N/A	N/A	N/A	N/A	RW	SPT	Retaining Wall
G-016	34.0396	-81.09517	802709.7761	1971170.116	I20CL	199+00	215 LT	314.1	25.6	N/A	N/A	N/A	N/A	RW	SPT	Retaining Wall
G-017	34.0396	-81.09435	802732.1332	1971415.821	I20CL	201+50	150 LT	315.0	20.9	N/A	N/A	18.6	296.4	RW	SPT	Roadway/Embankment
G-018	34.0394	-81.09478	802661.2025	1971288.358	I20CL	200+00	130 LT	304.3	55.0	N/A	N/A	17.8	286.5	RW	SPT	Roadway/Embankment
G-019	34.0396	-81.09483	802723.8799	1971270.484	I20CL	200+05	195 LT	306.1	45.0	20	286.1	19.5	286.6	RW	SPT	Retaining Wall
G-020	34.0395	-81.09447	802686.2699	1971382.311	I20CL	201+00	120 LT	308.0	50.0	22	286.0	N/A	N/A	RW	SPT	Roadway/Embankment
G-021	34.0403	-81.09241	802982.3801	1972004.604	I20CL	208+00	120 LT	315.1	20.0	5.9	309.2	Dry	N/A	RW	SPT	Roadway/Embankment
G-022	34.0409	-81.09163	803179.4675	1972241.367	I20CL	211+00	190 LT	311.7	15.0	Dry	N/A	NM	N/A	RW	SPT	Roadway/Embankment
G-023	34.0412	-81.09073	803305.0481	1972514.001	I20CL	214+00	180 LT	320.3	40.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-024	34.0414	-81.0905	803385.6411	1972585.449	I20CL	215+00	220 LT	320.9	35.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-025	34.0417	-81.0899	803470.8512	1972766.458	I20CL	217+00	215 LT	308.9	40.0	N/A	N/A	N/A	N/A	RW	SPT	Roadway/Embankment
G-026	34.0419	-81.08928	803542.6538	1972954.193	I20CL	219+00	195 LT	301.5	30.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-027	34.042	-81.08864	803601.0489	1973148.653	I20CL	221+00	160 LT	275.9	25.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-028	34.0386	-81.09566	802356.7697	1971019.759	I20CL	196+50	80 RT	302.0	15.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-029	34.0387	-81.09498	802385.6551	1971224.868	I20CL	198+50	110 RT	307.4	15.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-030	34.039	-81.09403	802491.6494	1971514.652	I20CL	201+50	110 RT	310.1	15.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-031	34.0391	-81.09372	802531.997	1971609.286	I20CL	202+50	110 RT	312.7	15.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-032	34.0395	-81.09264	802673.7113	1971935.694	I20CL	206+00	125 RT	318.3	40.5	N/A	N/A	N/A	N/A	CPT	CPT	Retaining Wall
G-033	34.0394	-81.09261	802655.8346	1971944.662	I20CL	206+00	145 RT	321.1	40.1	N/A	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-034	34.0396	-81.09232	802705.1434	1972031.804	I20CL	207+00	140 RT	319.6	25.3	12	307.6	Dry	N/A	RW	SPT	Retaining Wall
G-035	34.0395	-81.09229	802687.2667	1972040.772	I20CL	207+00	160 RT	320.2	25.5	7.1	313.1	Dry	N/A	RW	SPT	Retaining Wall
G-036	34.0397	-81.09204	802757.1337	1972117.6	I20CL	208+00	132 RT	314.3	25.4	N/A	N/A	N/A	N/A	CPT	CPT	Retaining Wall
G-037	34.0397	-81.09206	802759.3609	1972110.889	I20CL	207+95	127 RT	314.7	25.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-038	34.0399	-81.09184	802828.7677	1972177.879	I20CL	208+86	95 RT	311.0	20.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-039	34.0397	-81.09169	802772.4798	1972224.017	I20CL	209+02	166 RT	311.9	25.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-040	34.0401	-81.09155	802891.9413	1972265.897	I20CL	209+93	78 RT	308.7	20.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-041	34.0399	-81.09145	802836.9749	1972296.827	I20CL	209+96	141 RT	308.9	20.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-042	34.0401	-81.09121	802918.0164	1972369.169	I20CL	210+97	101 RT	308.0	20.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-043	34.0399	-81.0907	802839.9582	1972523.561	I20CL	212+00	240 RT	279.2	35.0	2	277.2	1.9	277.3	RW	SPT	Roadway/Embankment

Carolina Crossroads Phase 2
Richland County, SC
Boring Location Summary

Boring Name	Latitude	Longitude	Northing	Easting	Alignment	Station	Offset	Elevation (feet)	Depth (feet)	0 Hr GW (feet)	0 Hr GW Elevation (feet)	24 Hr GW (feet)	24 Hr GW Elevation (feet)	Drilling Method	Test Type	Purpose/Location
G-044	34.0404	-81.09027	803022.1449	1972652.565	I20CL	213+97	135 RT	304.0	30.0	26.5	277.5	25.5	278.5	RW	SPT	Retaining Wall
G-045	34.0405	-81.09034	803036.8769	1972632.868	I20CL	213+86	113 RT	299.5	25.0	Dry	N/A	20.8	278.7	RW	SPT	Retaining Wall
G-046	34.0406	-81.08998	803076.8227	1972741.488	I20CL	215+01	126 RT	302.6	25.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-047	34.0406	-81.09005	803103.1804	1972720.434	I20CL	214+94	93 RT	296.0	25.0	19.1	276.9	16.6	279.4	RW	SPT	Retaining Wall
G-048	34.0407	-81.08969	803116.2934	1972829.09	I20CL	215+97	130 RT	302.0	25.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-049	34.0408	-81.08981	803141.2912	1972794.174	I20CL	215+77	92 RT	293.0	25.0	19.9	273.1	15.5	277.5	RW	SPT	Retaining Wall
G-050	34.0408	-81.0894	803162.0239	1972915.789	I20CL	216+95	128 RT	300.0	25.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-051	34.0409	-81.0895	803187.476	1972886.239	I20CL	216+80	92 RT	289.3	25.0	19.7	269.6	18.1	271.2	RW	SPT	Retaining Wall
G-052	34.0409	-81.08911	803205.5213	1973004.727	I20CL	217+94	129 RT	297.1	25.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-053	34.041	-81.08918	803239.4811	1972983.215	I20CL	217+90	89 RT	285.0	25.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-054	34.0411	-81.08883	803250.8035	1973090.532	I20CL	218+91	127 RT	293.3	25.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-055	34.0412	-81.08886	803288.8018	1973079.301	I20CL	218+98	88 RT	280.4	25.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-056	34.0412	-81.08855	803292.5073	1973175.894	I20CL	219+86	128 RT	289.3	25.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-057	34.0413	-81.08859	803330.9511	1973163.322	I20CL	219+92	88 RT	276.4	25.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-058	34.0413	-81.08821	803343.1761	1973276.898	I20CL	220+99	128 RT	284.1	25.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-059	34.0414	-81.0883	803379.8144	1973251.805	I20CL	220+93	84 RT	272.1	30.0	Dry	N/A	21.1	251.0	RW	SPT	Retaining Wall
G-060	34.0421	-81.08831	803628.0119	1973247.005	I20CL	222+00	140 LT	273.3	30.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-061	34.0416	-81.08764	803447.6051	1973449.384	I20CL	223+00	112 RT	270.0	25.0	Dry	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-062	34.0425	-81.08728	803784.9506	1973559.847	I20CL	225+50	140 LT	256.0	25.0	Dry	N/A	14.9	241.1	RW	SPT	Roadway/Embankment
G-063	34.0422	-81.08617	803673.591	1973895.405	I20CL	228+00	110 RT	234.2	25.0	12.8	221.4	4.8	229.4	RW	SPT	Roadway/Embankment
G-064	34.0431	-81.0858	804009.1488	1974006.764	I20CL	230+50	140 LT	228.6	25.0	Dry	N/A	12.9	215.7	RW	SPT	Roadway/Embankment
G-065	34.0429	-81.08472	803911.1968	1974335.596	I20CL	233+00	95 RT	213.5	23.6	Dry	N/A	15.9	197.6	RW	SPT	Roadway/Embankment
G-066	34.0437	-81.0843	804215.4704	1974462.65	I20CL	235+50	120 LT	199.9	24.7	Dry	N/A	0.2	199.7	RW	SPT	Roadway/Embankment
G-067	34.0435	-81.08324	804130.9259	1974784.756	I20CL	238+00	100 RT	196.0	25.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-068	34.0443	-81.08282	804439.6686	1974909.567	I20CL	240+50	120 LT	186.2	25.0	Dry	N/A	NM	N/A	RW	SPT	Roadway/Embankment
G-069	34.0441	-81.08178	804364.0624	1975227.189	I20CL	243+00	90 RT	181.3	25.0	18.2	163.1	6.1	175.2	RW	SPT	Roadway/Embankment
G-070	34.0449	-81.08135	804663.8668	1975356.485	I20CL	245+50	120 LT	178.8	23.8	Dry	N/A	14.9	163.9	RW	SPT	Roadway/Embankment
G-071	34.0447	-81.08031	804592.7298	1975671.864	I20CL	248+00	85 RT	174.8	25.0	Dry	N/A	7.7	167.1	RW	SPT	Roadway/Embankment
G-072	34.0455	-81.07986	804879.1267	1975807.886	I20CL	250+50	110 LT	168.4	23.9	19.9	148.5	6.7	161.7	RW	SPT	Roadway/Embankment
G-073	34.0454	-81.07883	804816.9281	1976118.782	I20CL	253+00	85 RT	165.5	23.9	15.3	150.2	NM	N/A	RW	SPT	Roadway/Embankment
G-074	34.0462	-81.07839	805103.325	1976254.803	I20CL	255+50	110 LT	167.5	25.0	22.8	144.7	10.1	157.4	RW	SPT	Roadway/Embankment
G-075	34.046	-81.07735	805036.6571	1976567.941	I20CL	258+00	90 RT	162.4	23.3	12	150.4	NM	N/A	RW	SPT	Roadway/Embankment
G-076	34.0468	-81.07691	805327.5232	1976701.721	I20CL	260+50	110 LT	161.2	17.0	5.1	156.1	0	161.2	RW	SPT	Roadway/Embankment
G-077	34.0466	-81.07588	805265.3245	1977012.617	I20CL	263+00	85 RT	163.4	16.7	2.2	161.2	0.6	162.8	RW	SPT	Roadway/Embankment
G-078	34.0473	-81.07558	805529.3016	1977103.946	I20CL	265+00	110 LT	157.4	17.7	4.6	152.8	2.7	154.7	RW	SPT	Roadway/Embankment
G-079	34.0422	-81.09752	803683.7167	1970456.651	US176WB	599+00	40 RT	311.9	4.2	Dry	N/A	3	308.9	Hand Auger	Hand Auger with DCP	Roadway/Embankment
G-080	34.0414	-81.09615	803393.5427	1970872.869	US176WB	604+00	40 LT	311.2	7.0	N/A	N/A	5	306.2	Hand Auger	Hand Auger with DCP	Roadway/Embankment
G-081	34.0403	-81.09518	802971.0074	1971165.895	US176WB	609+00	80 RT	307.2	60.8	N/A	N/A	18.2	289.0	RW	SPT	Retaining Wall
G-082	34.0398	-81.09487	802780.6171	1971259.598	I20CL	200+15	252 LT	316.8	51.0	1.4	315.4	Dry	N/A	RW	SPT	Retaining Wall
G-083	34.039	-81.09342	802516.8439	1971698.789	US176WB	616+00	65 RT	331.3	25.4	N/A	N/A	N/A	N/A	CPT	CPT	Bridge 42A
G-084	34.0385	-81.09296	802305.2542	1971837.607	US176WB	618+50	125 RT	313.8	46.3	N/A	N/A	24	289.8	RW	SPT	Retaining Wall
G-085	34.0386	-81.09278	802358.9863	1971891.364	US176WB	618+51	49 RT	332.8	46.1	10.2	322.6	FIAD	N/A	RW	SPT	Retaining Wall
G-086	34.0384	-81.09283	802274.5116	1971876.006	US176WB	619+00	120 RT	317.8	46.0	N/A	N/A	26.2	291.6	RW	SPT	Retaining Wall
G-087	34.0386	-81.09272	802343.0868	1971911.884	US176WB	618+77	46 RT	332.8	46.1	14.1	318.7	FIAD	N/A	RW	SPT	Retaining Wall
G-088	34.0379	-81.09153	802104.2319	1972270.899	US176WB	623+00	40 LT	329.4	15.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-090	34.0405	-81.09319	803043.152	1971770.204	RAMPE	206+00	45 LT	320.8	15.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-091	34.0407	-81.09225	803128.9865	1972054.357	RAMPE	209+00	50 LT	315.9	15.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-092	34.0402	-81.09342	802948.4713	1971697.66	LINEE	205+00	0 RT	321.4	15.0	2.7	318.7	12	309.4	RW	SPT	Roadway/Embankment
G-093	34.0404	-81.09543	802997.6337	1971090.068	US176EB	408+53	52 RT	311.2	45.6	17.8	293.4	FIAD	N/A	RW	SPT	Retaining Wall
G-094	34.0402	-81.09535	802926.4478	1971115.034	US176EB	409+23	60 RT	309.4	55.8	12.8	296.6	Dry	N/A	RW	SPT	Retaining Wall
G-095	34.0397	-81.09526	802769.6448	1971140.49	RAMPF	398+90	10 LT	311.6	15.4	N/A	N/A	N/A	N/A	CPT	CPT	Retaining Wall

Carolina Crossroads Phase 2
Richland County, SC
Boring Location Summary

Boring Name	Latitude	Longitude	Northing	Easting	Alignment	Station	Offset	Elevation (feet)	Depth (feet)	0 Hr GW (feet)	0 Hr GW Elevation (feet)	24 Hr GW (feet)	24 Hr GW Elevation (feet)	Drilling Method	Test Type	Purpose/Location
G-096	34.0388	-81.09328	802438.2074	1971739.817	LINEG	204+00	0 RT	330.2	15.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-097	34.0383	-81.09348	802255.5231	1971680.328	RAMPG	203+00	80 RT	305.7	35.3	30.2	275.5	17	288.7	RW	SPT	Roadway/Embankment
G-098	34.0387	-81.09324	802380.1632	1971753.45	RAMPG	203+79	12 RT	318.3	50.3	18.6	299.7	FIAD	N/A	RW	SPT	Retaining Wall
G-099	34.0384	-81.09316	802302.2581	1971778.204	RAMPG	204+00	38 RT	310.4	44.7	33.5	276.9	20.5	289.9	RW	SPT	Retaining Wall
G-100	34.0387	-81.09252	802390.9507	1971971.016	RAMPH	203+75	0 RT	334.7	15.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-101	34.0393	-81.09672	802606.055	1970699.839	I20CDW1	194+00	0 RT	306.0	35.7	15.3	290.7	15.1	290.9	RW	SPT	Roadway/Embankment
G-102	34.0386	-81.09449	802351.048	1971375.41	RAMPG	200+00	30 LT	322.5	40.0	Dry	N/A	37.4	285.1	RW	SPT	Roadway/Embankment
G-103	34.039	-81.09261	802510.8207	1971944.438	RAMPH	205+00	0 RT	332.9	35.0	Dry	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-104	34.0437	-81.08377	804229.0998	1974623.629	I20CL	237+00	60 LT	209.8	27.6	Dry	N/A	NM	N/A	RW	SPT	Roadway/Embankment
G-105	34.0463	-81.07682	805162.0898	1976728.772	I20CL	260+00	50 RT	177.2	30.4	7.8	169.4	N/A	N/A	RW	SPT	Roadway/Embankment
G-107	34.0392	-81.09619	802581.8723	1970860.836	RAMPF	395+40	38 LT	307.0	89.4	N/A	N/A	18.1	288.9	RW	SPT	Retaining Wall
G-113	34.0393	-81.09557	802632.029	1971048.334	RAMPF	397+25	25 RT	311.5	84.9	N/A	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-114	34.0394	-81.09551	802654.0349	1971064.849	RAMPF	397+51	16 RT	312.3	70.0	N/A	N/A	4.2	308.1	RW	SPT	Retaining Wall
G-116	34.0394	-81.09531	802643.2972	1971127.397	RAMPF	397+95	60 RT	309.1	70.4	N/A	N/A	19.8	289.3	RW	SPT	Retaining Wall
G-117	34.0391	-81.09613	802524.5201	1970877.857	RAMPF	395+25	20 RT	307.0	70.1	N/A	N/A	Dry	N/A	RW	SPT	Roadway/Embankment
G-118	34.0395	-81.09431	802699.7604	1971429.125	I20CL	201+50	115 LT	311.1	71.0	N/A	N/A	27.9	283.2	RW	SPT	Roadway/Embankment
G-119	34.0397	-81.09422	802769.269	1971455.132	US176WB	612+50	38 RT	325.4	72.4	16.8	308.6	FIAD	N/A	RW	SPT	Retaining Wall
G-120	34.0396	-81.0941	802736.0764	1971492.525	US176WB	613+00	38 RT	326.8	94.6	4.3	322.5	FIAD	N/A	RW	SPT	Retaining Wall
G-121	34.0399	-81.09401	802816.317	1971519.626	US176WB	612+67	40 LT	321.1	69.8	N/A	N/A	35.3	285.8	RW	SPT	Retaining Wall
G-122	34.0397	-81.09377	802766.1247	1971592.74	US176WB	613+55	51 LT	319.6	89.6	N/A	N/A	Dry	N/A	RW	SPT	Retaining Wall
G-125	34.0392	-81.09359	802571.0889	1971648.266	US176WB	615+26	58 RT	307.1	74.9	10.6	296.5	16	291.1	RW	SPT	Retaining Wall
G-126	34.0393	-81.09321	802618.9179	1971761.59	US176WB	615+79	53 LT	319.4	95.1	N/A	N/A	31.7	287.7	RW	SPT	Retaining Wall
G-127	34.0393	-81.09317	802602.5334	1971773.984	US176WB	615+99	49 LT	321.8	81.1	N/A	N/A	34	287.8	RW	SPT	Retaining Wall
G-128	34.0398	-81.09347	802798.4083	1971682.906	US176WB	614+01	135 LT	317.2	99.2	N/A	N/A	29.9	287.3	RW	SPT	Retaining Wall
G-129	34.0399	-81.09354	802822.5025	1971663.549	I20CL	204+23	130 LT	318.0	64.5	N/A	N/A	30.8	287.2	RW	SPT	Retaining Wall
G-130	34.0399	-81.09328	802833.1114	1971742.734	I20CL	204+99	104 LT	315.5	70.5	N/A	N/A	29.1	286.4	RW	SPT	Retaining Wall
G-131	34.0398	-81.09363	802794.8879	1971635.655	US176WB	613+68	101 LT	318.2	109.2	N/A	N/A	31.1	287.1	RW	SPT	Retaining Wall
G-132	34.0398	-81.0937	802813.3917	1971613.303	US176WB	613+39	100 LT	318.5	49.2	N/A	N/A	N/A	N/A	CPT	CPT	Retaining Wall
G-133	34.04	-81.09331	802856.7995	1971731.97	I20CL	205+00	130 LT	315.9	45.1	N/A	N/A	N/A	N/A	CPT	CPT	Retaining Wall
G-136	34.0394	-81.09305	802642.8111	1971809.952	US176WB	615+99	103 LT	317.2	83.6	N/A	N/A	N/A	N/A	RW	SPT	Retaining Wall
G-137	34.0393	-81.09303	802604.6571	1971818.02	US176WB	616+30	80 LT	321	53.0	N/A	N/A	N/A	N/A	CPT	CPT	Bridge 42B
G-138	34.0394	-81.09296	802653.9049	1971838.228	I20CL	205+04	99 RT	317.0	90.7	N/A	N/A	29.9	287.1	RW	SPT	Retaining Wall
G-139	34.0394	-81.09298	802641.3735	1971831.089	I20CL	204+92	107 RT	318.3	69.4	N/A	N/A	30.8	287.5	RW	SPT	Retaining Wall
G-140	34.0395	-81.0927	802704.0987	1971918.213	I20CL	205+98	90 RT	313.6	63.4	N/A	N/A	21.8	291.8	RW	SPT	Retaining Wall
G-141	34.0405	-81.09488	803043.4652	1971257.409	US176WB	609+20	35 LT	314.0	5.4	2	312.0	1.2	312.8	Hand Auger	Hand Auger with DCP	Roadway/Embankment
G-1	34.0394	-81.0955	802555.803	1971116.117	RAMPF	396+03	35 RT	306.8	50.5	N/A	N/A	N/A	N/A	CPT	CPT	Retaining Wall
G-2	34.0391	-81.09596	802639.495	1971081.554	RAMPF	397+57	37 RT	311.8	53.8	N/A	N/A	N/A	N/A	CPT	CPT	Retaining Wall
G-3	34.0395	-81.09436	802700.55	1971433.769	I20CL	201+55	114 LT	311.3	46.3	N/A	N/A	N/A	N/A	CPT	CPT	Retaining Wall

Carolina Crossroads - Phase 2

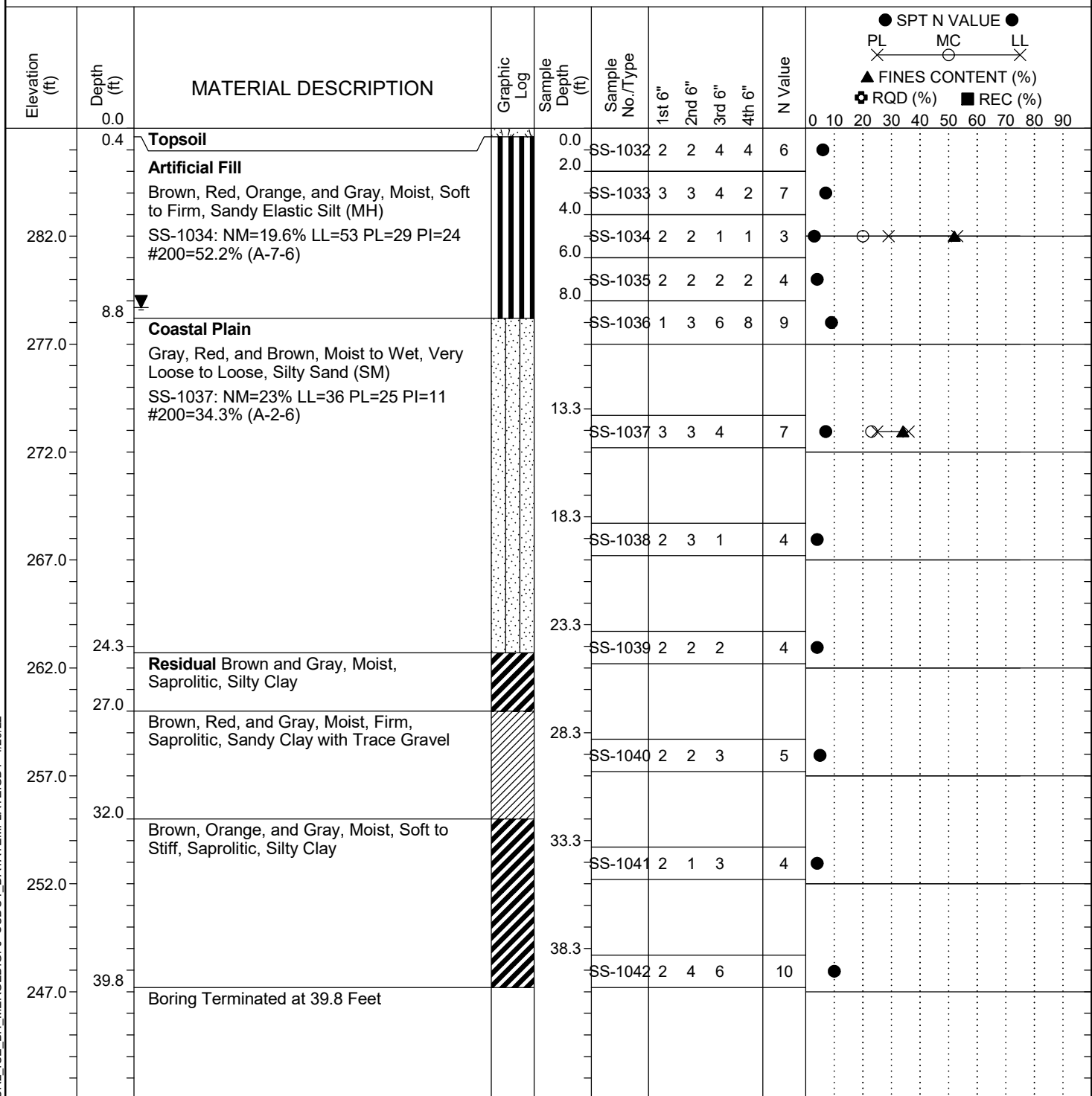
Geotechnical Subsurface Data Report

APPENDIX D – ROADWAY

SECTION 3 FIELD TESTING LOGS

SECTION 3A SOIL BORING LOGS

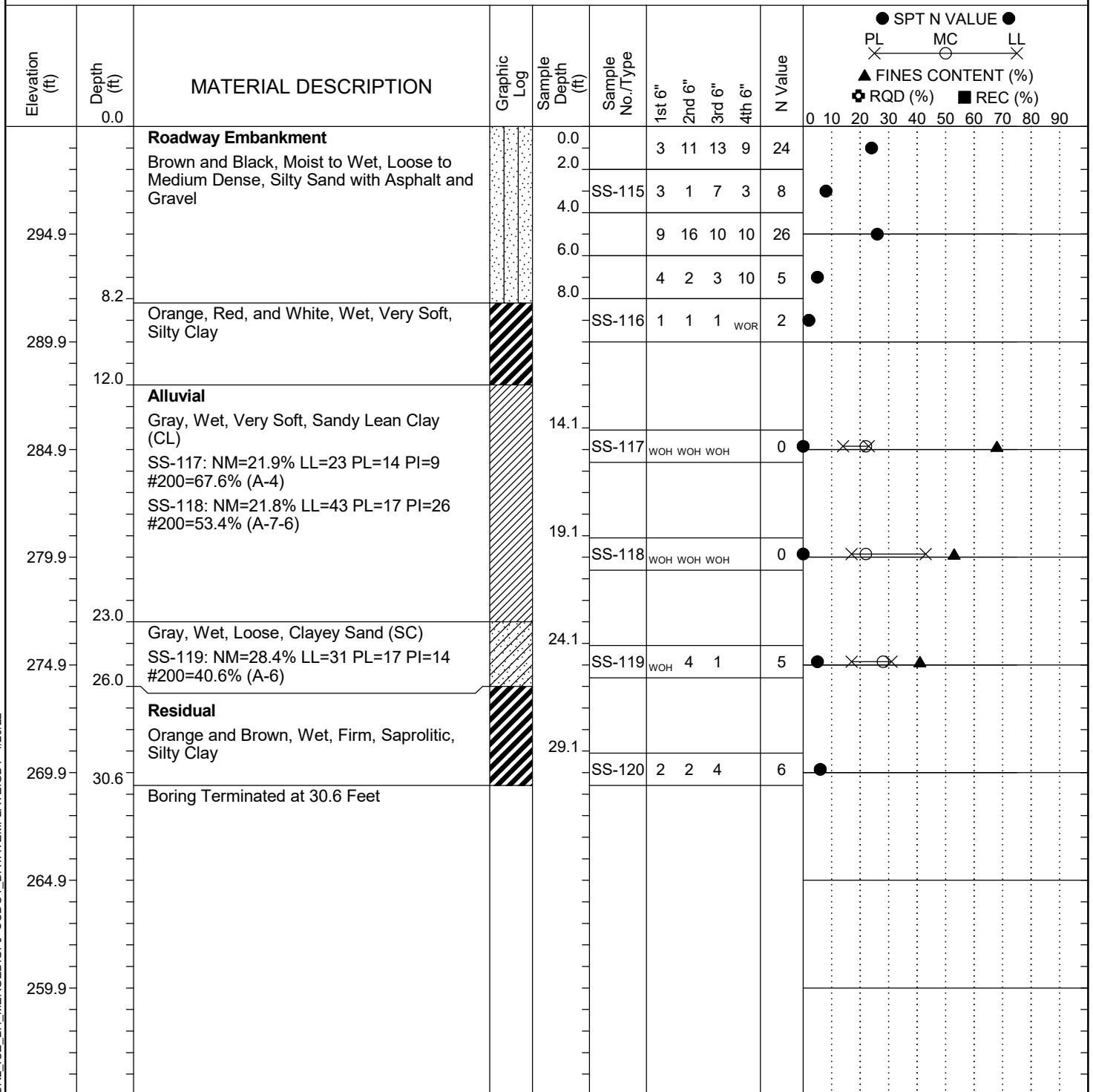
Project ID:	P039719	County:	Richland	Boring No.:	DR-3
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	M. Akland	Boring Location:	196+21	Offset:	265 LT
Elev.:	287.0 ft	Latitude:	34.03948773	Longitude:	-81.09603989
Total Depth:	39.8 ft	Soil Depth:	39.8 ft	Date Started:	3/17/2022
Core Depth:	N/A ft	Date Completed:	3/17/2022	Alignment:	I20CL
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Liner Used:	Y (N)
Hammer Type:	Automatic	Energy Ratio:	84.4%		
Core Size:	N/A	Driller:	M. Morgan	Groundwater:	TOB 8.3 ft
				24HR	8.3 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

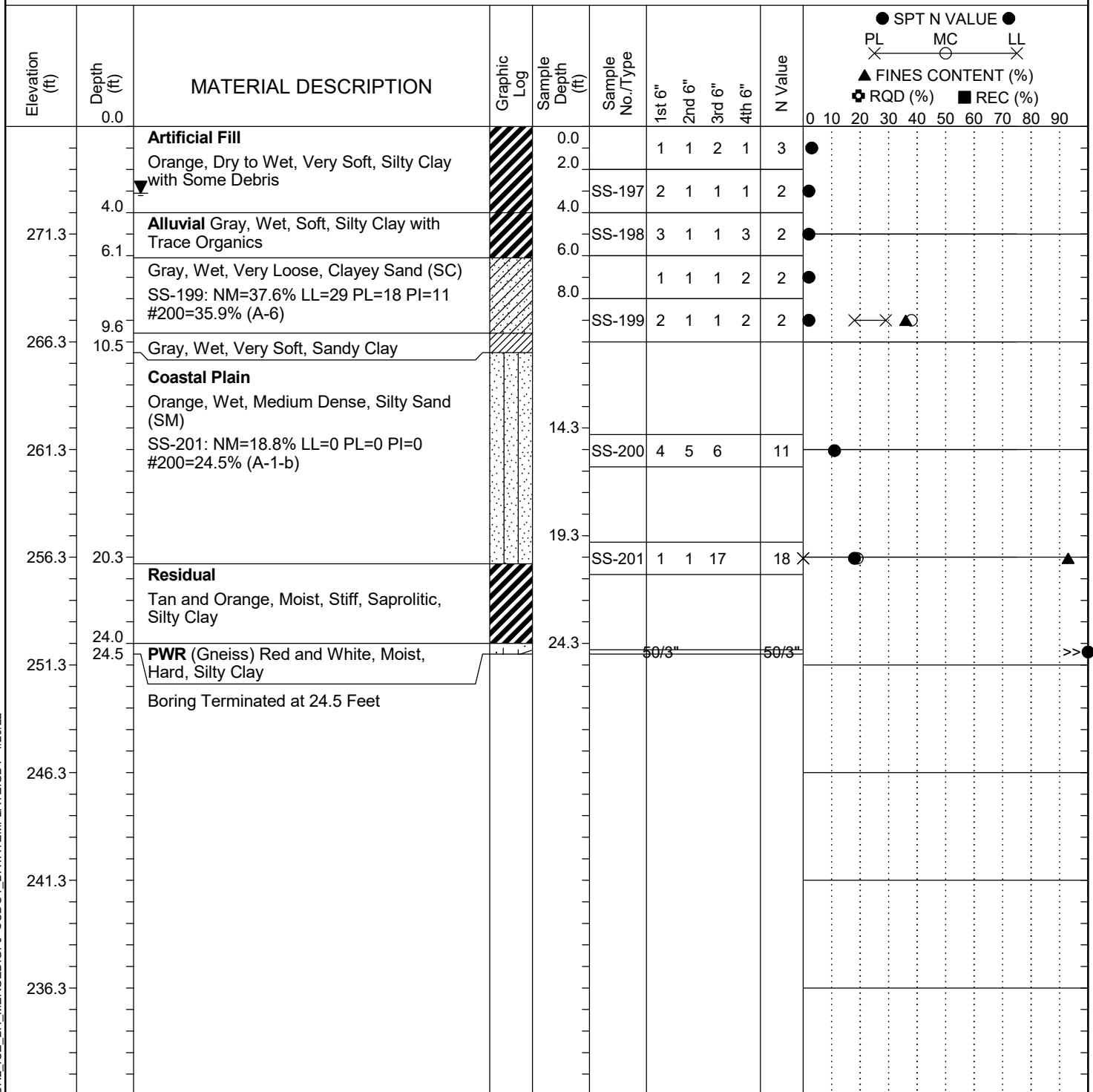
Project ID:	P039719	County:	Richland	Boring No.:	DR-4
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	C. McIlroy	Boring Location:	196+38	Offset:	98 LT
Elev.:	299.9 ft	Latitude:	34.03905476	Longitude:	-81.0958493
Total Depth:	30.6 ft	Soil Depth:	30.6 ft	Core Depth:	N/A ft
Date Started:	3/10/2022				
Date Completed:	3/10/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	84.4%				
Core Size:	N/A	Driller:	M. Morgan	Groundwater:	TOB N/A
24HR	Dry				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

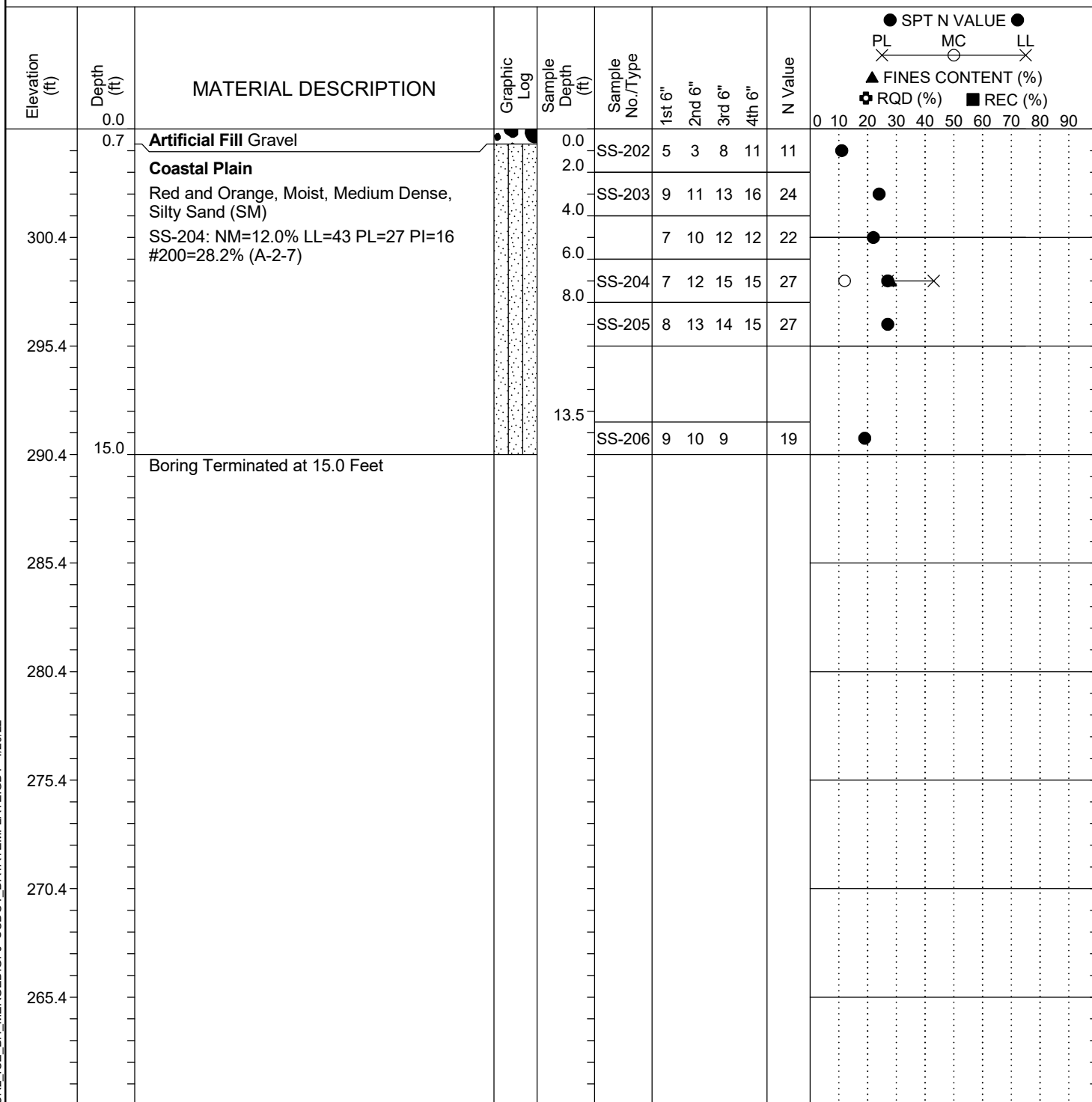
Project ID: P039719				County: Richland		Boring No.: G-001		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: C. McIlroy		Boring Location: 172+00		Offset: 120 LT		Alignment: I20CL		
Elev.: 276.3 ft		Latitude: 34.03872331		Longitude: -81.10381799		Date Started: 3/24/2022		
Total Depth: 24.5 ft		Soil Depth: 24.5 ft		Core Depth: N/A ft		Date Completed: 3/24/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #435		Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 84.4%		
Core Size: N/A		Driller: M. Morgan		Groundwater: TOB N/A		24HR 3.1 ft		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

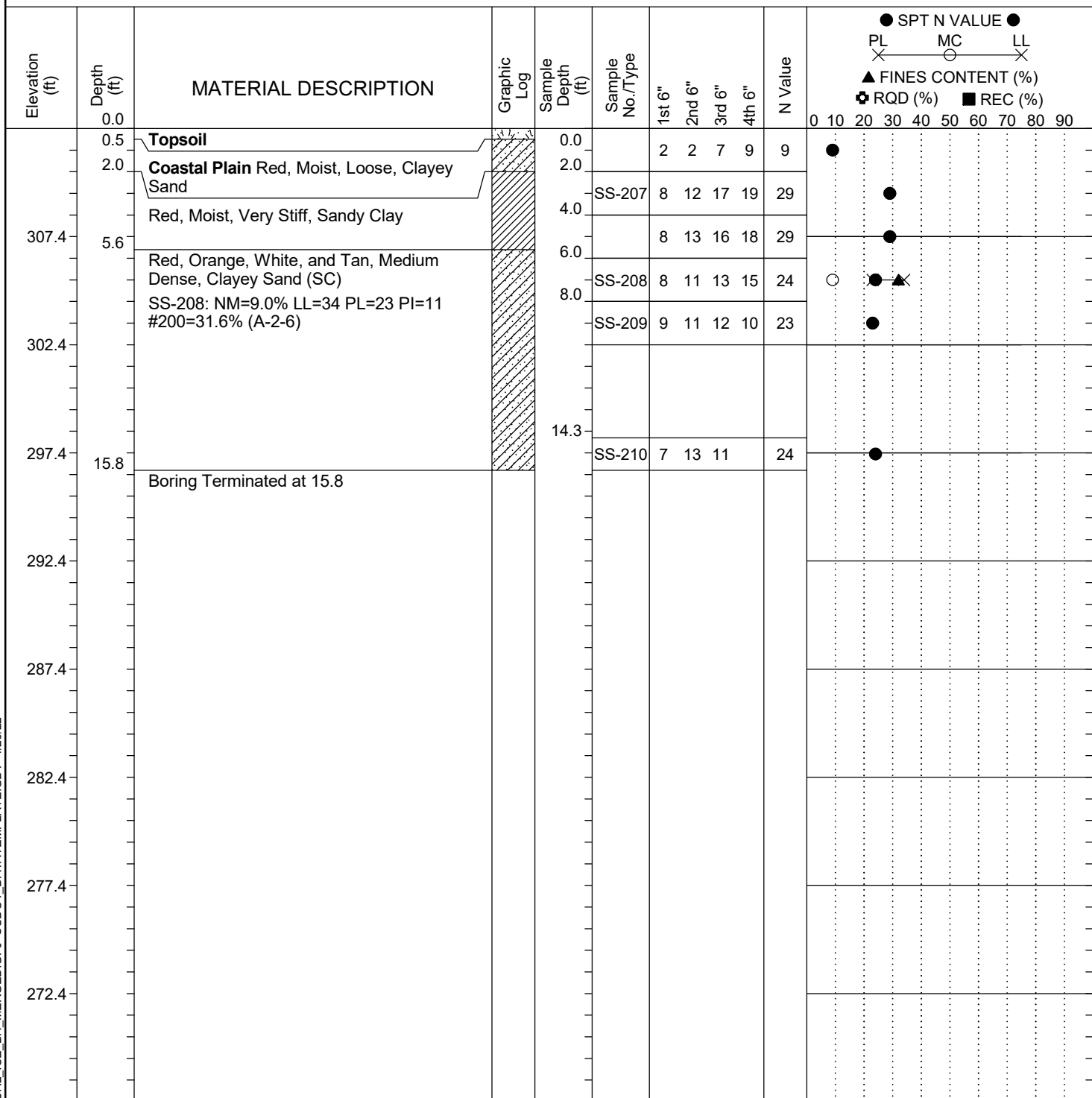
Project ID:	P039719	County:	Richland	Boring No.:	G-003
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	C. McIlroy	Boring Location:	179+00	Offset:	140 LT
Elev.:	305.4 ft	Latitude:	34.03884799	Longitude:	-81.10146635
Total Depth:	15 ft	Soil Depth:	15 ft	Date Started:	3/24/2022
Core Depth:	N/A ft	Date Completed:	3/24/2022	Alignment:	I20CL
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	HSA	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	84.4%
Driller:	M. Morgan	Groundwater:	TOB	24HR	Dry



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

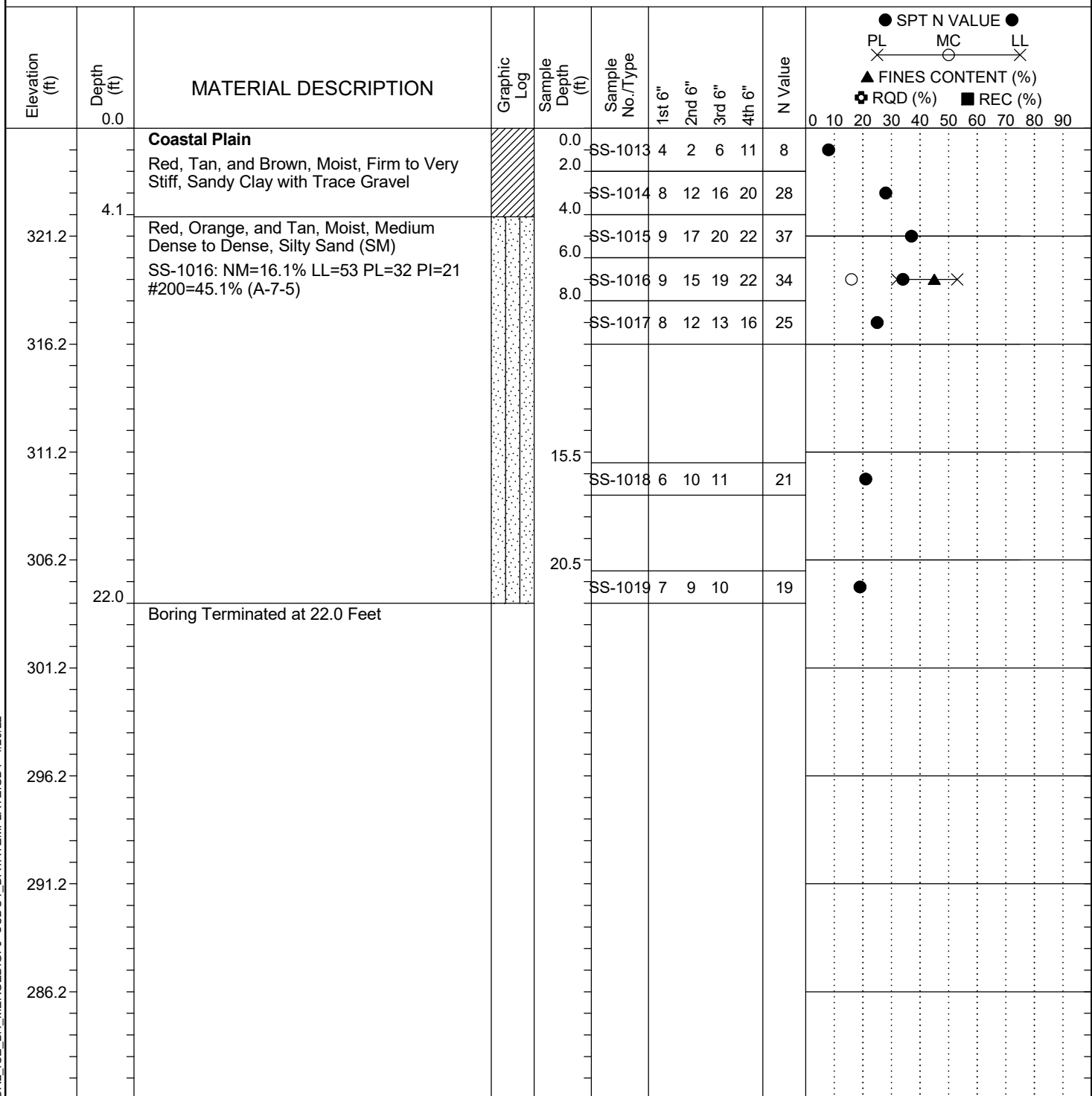
Project ID:	P039719	County:	Richland	Boring No.:	G-004
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	C. McIlroy	Boring Location:	181+00	Offset:	160 LT
Elev.:	312.4 ft	Latitude:	34.03889939	Longitude:	-81.10080566
Date Started:	3/24/2022				
Total Depth:	15.8 ft	Soil Depth:	15.8 ft	Core Depth:	N/A ft
Date Completed:	3/24/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #435	Drill Method:	HSA	Hammer Type:	Automatic
Energy Ratio:	84.4%				
Core Size:	N/A	Driller:	M. Morgan	Groundwater:	TOB Dry
24HR	Dry				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

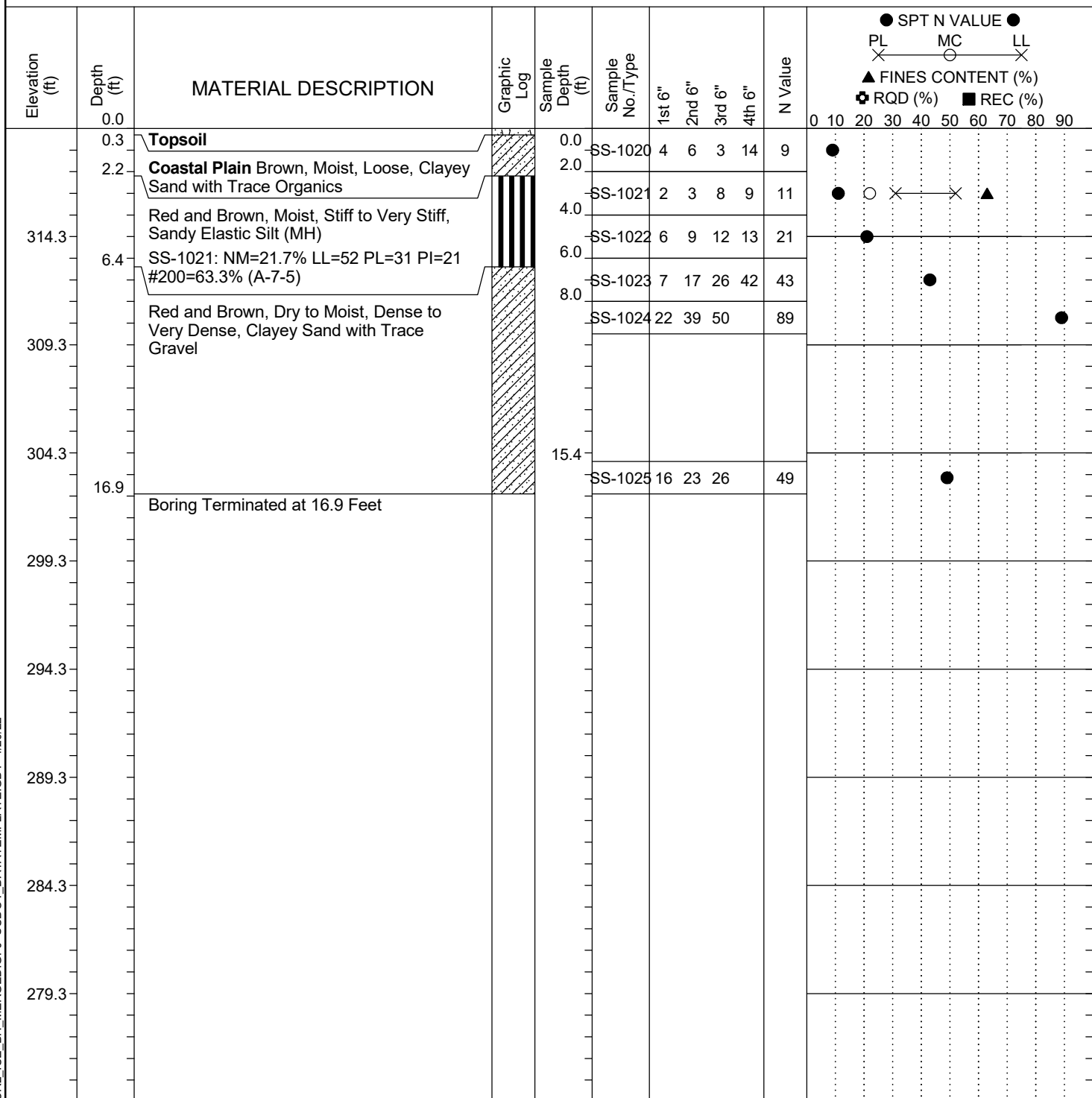
Project ID:	P039719	County:	Richland	Boring No.:	G-005
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	M. Akland	Boring Location:	184+00	Offset:	160 LT
Elev.:	326.2 ft	Latitude:	34.03889403	Longitude:	-81.09981527
Total Depth:	22 ft	Soil Depth:	22 ft	Date Started:	3/15/2022
Core Depth:	N/A ft	Date Completed:	3/15/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	Dry	24HR



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

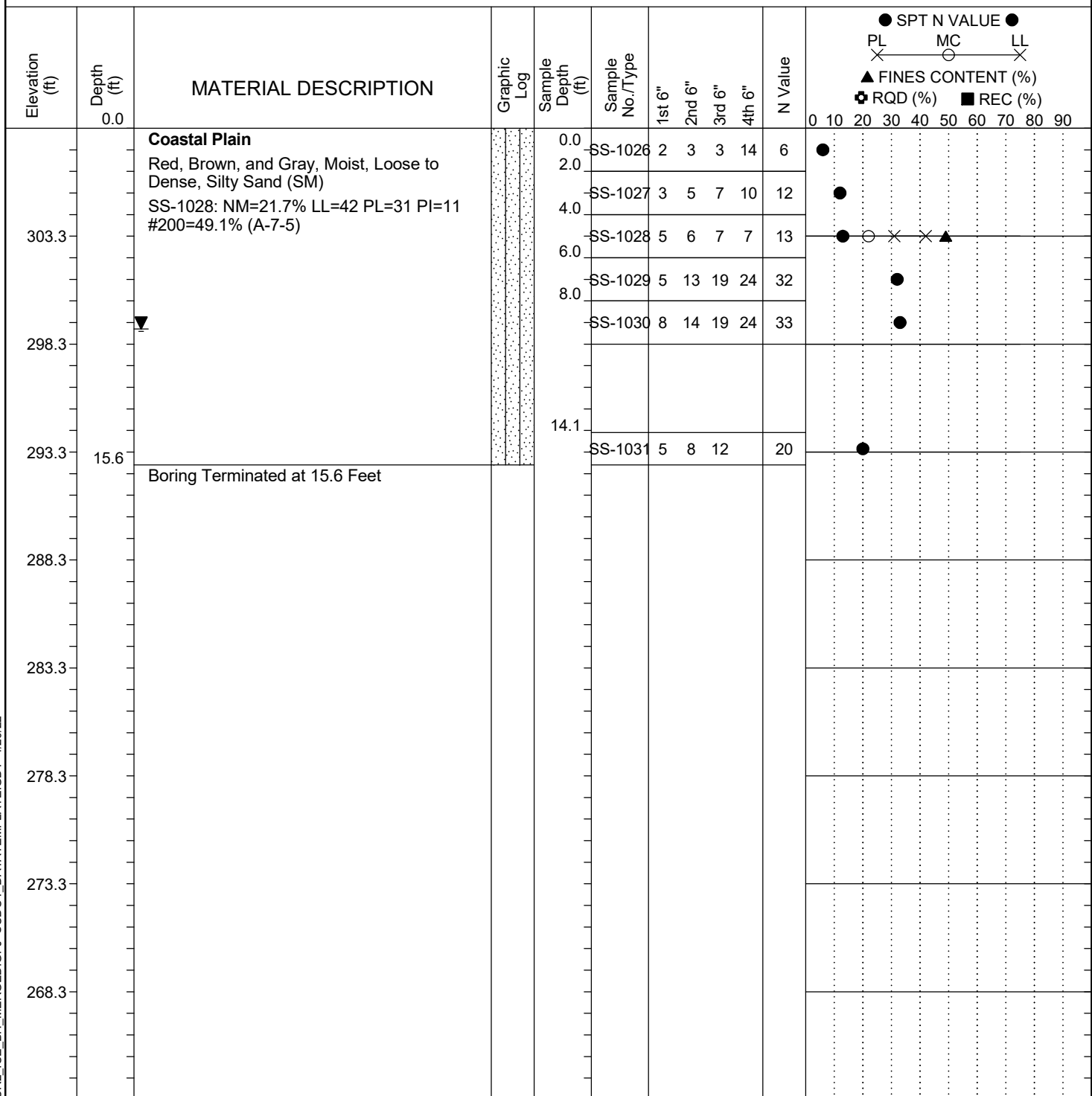
Project ID:	P039719	County:	Richland	Boring No.:	G-006
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	M. Akland	Boring Location:	187+00	Offset:	190 LT
Elev.:	319.3 ft	Latitude:	34.03897275	Longitude:	-81.09883539
Date Started:	3/15/2022				
Total Depth:	16.9 ft	Soil Depth:	16.9 ft	Core Depth:	N/A ft
Date Completed:	3/15/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	84.4%				
Core Size:	N/A	Driller:	M. Morgan	Groundwater:	TOB Dry
24HR:	Dry				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

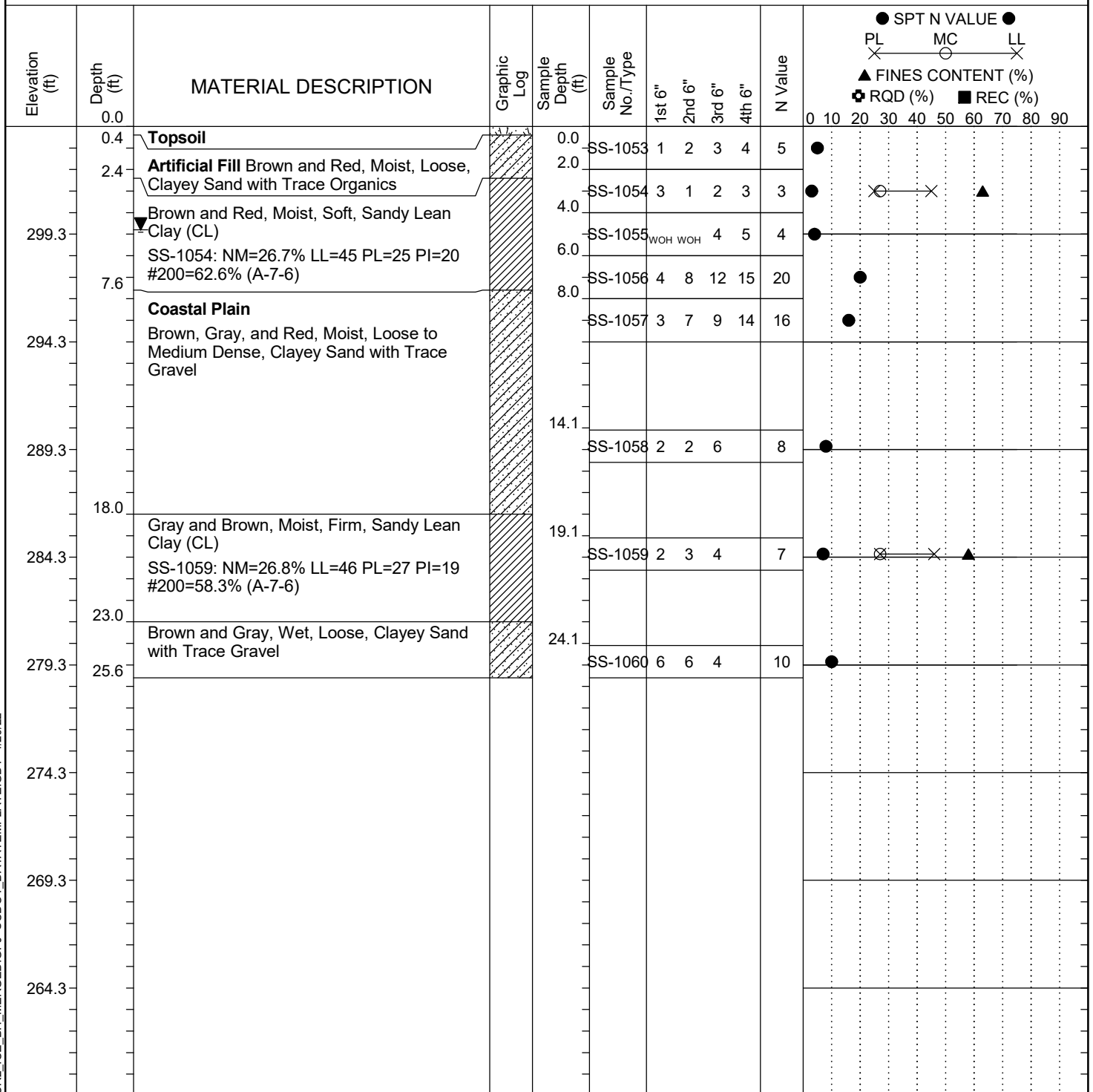
Project ID:	P039719	County:	Richland	Boring No.:	G-007
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	M. Akland	Boring Location:	190+00	Offset:	175 LT
Elev.:	308.3 ft	Latitude:	34.03897126	Longitude:	-81.09789124
Total Depth:	15.6 ft	Soil Depth:	15.6 ft	Date Started:	3/17/2022
Core Depth:	N/A ft	Date Completed:	3/17/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	Dry	24HR
					9.3 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

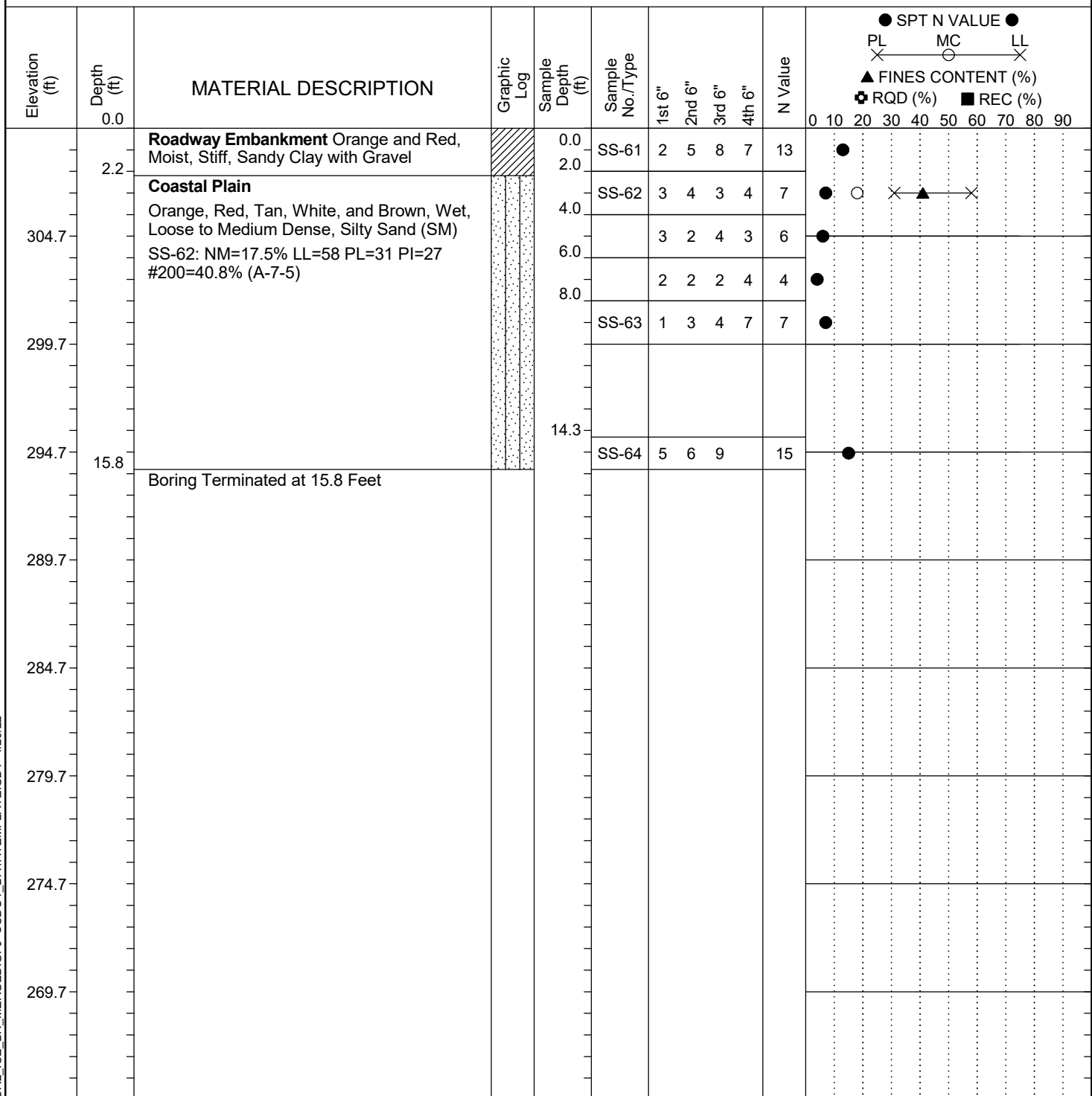
Project ID: P039719				County: Richland		Boring No.: G-008		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: M. Akland		Boring Location: 191+85		Offset: 201 LT		Alignment: I20CL		
Elev.: 304.3 ft		Latitude: 34.03909723		Longitude: -81.09732414		Date Started: 3/17/2022		
Total Depth: 25.6 ft		Soil Depth: 25.6 ft		Core Depth: N/A ft		Date Completed: 3/17/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #435		Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 84.4%		
Core Size: N/A		Driller: M. Morgan		Groundwater: TOB 12.3 ft		24HR 4.8 ft		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

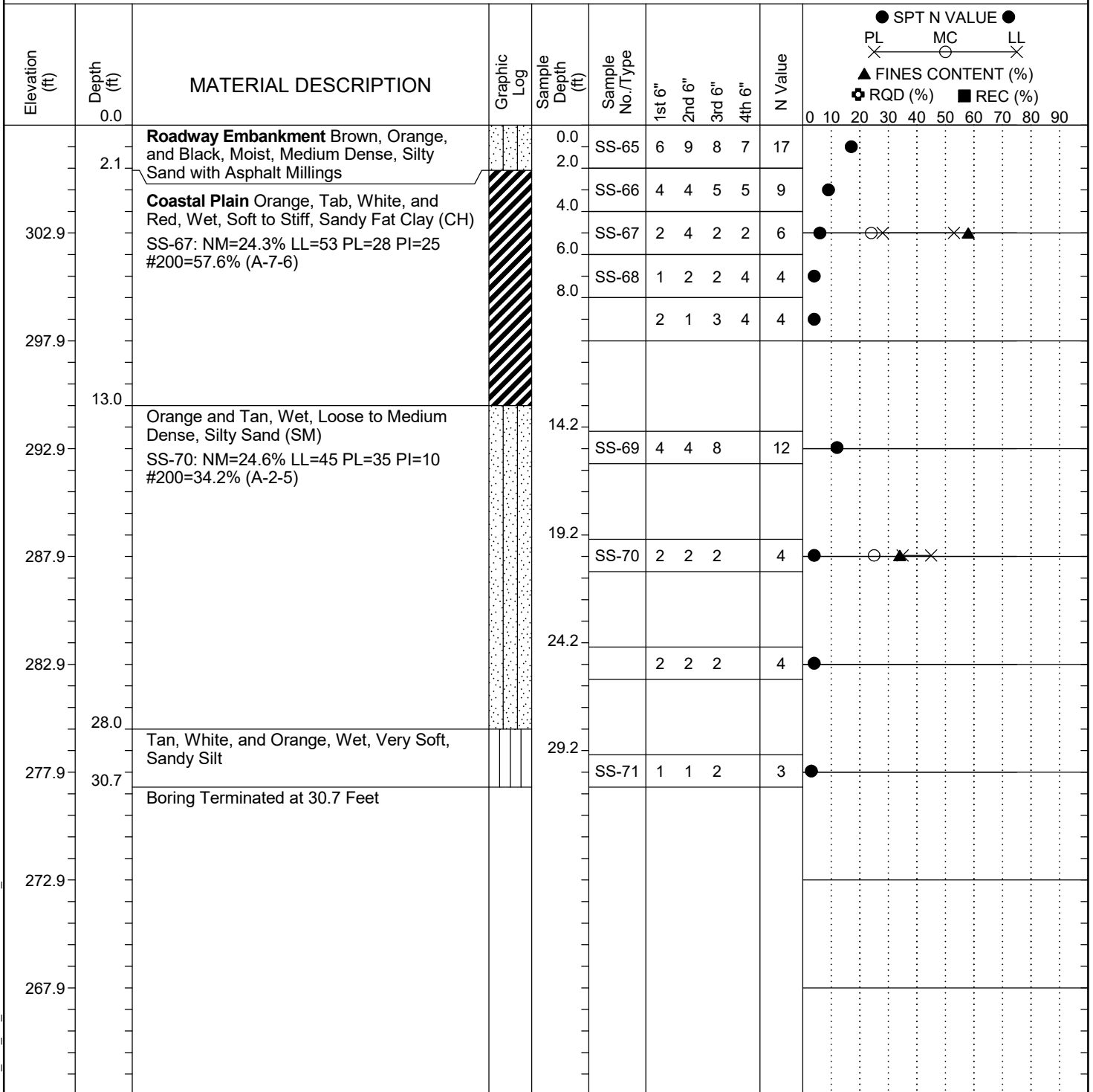
Project ID:	P039719	County:	Richland	Boring No.:	G-009
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	C. McIlroy	Boring Location:	192+50	Offset:	78 LT
Elev.:	309.7 ft	Latitude:	34.03878799	Longitude:	-81.09706024
Total Depth:	15.8 ft	Soil Depth:	15.8 ft	Date Started:	3/8/2022
Core Depth:	N/A ft	Date Completed:	3/8/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	N/A	24HR Dry



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

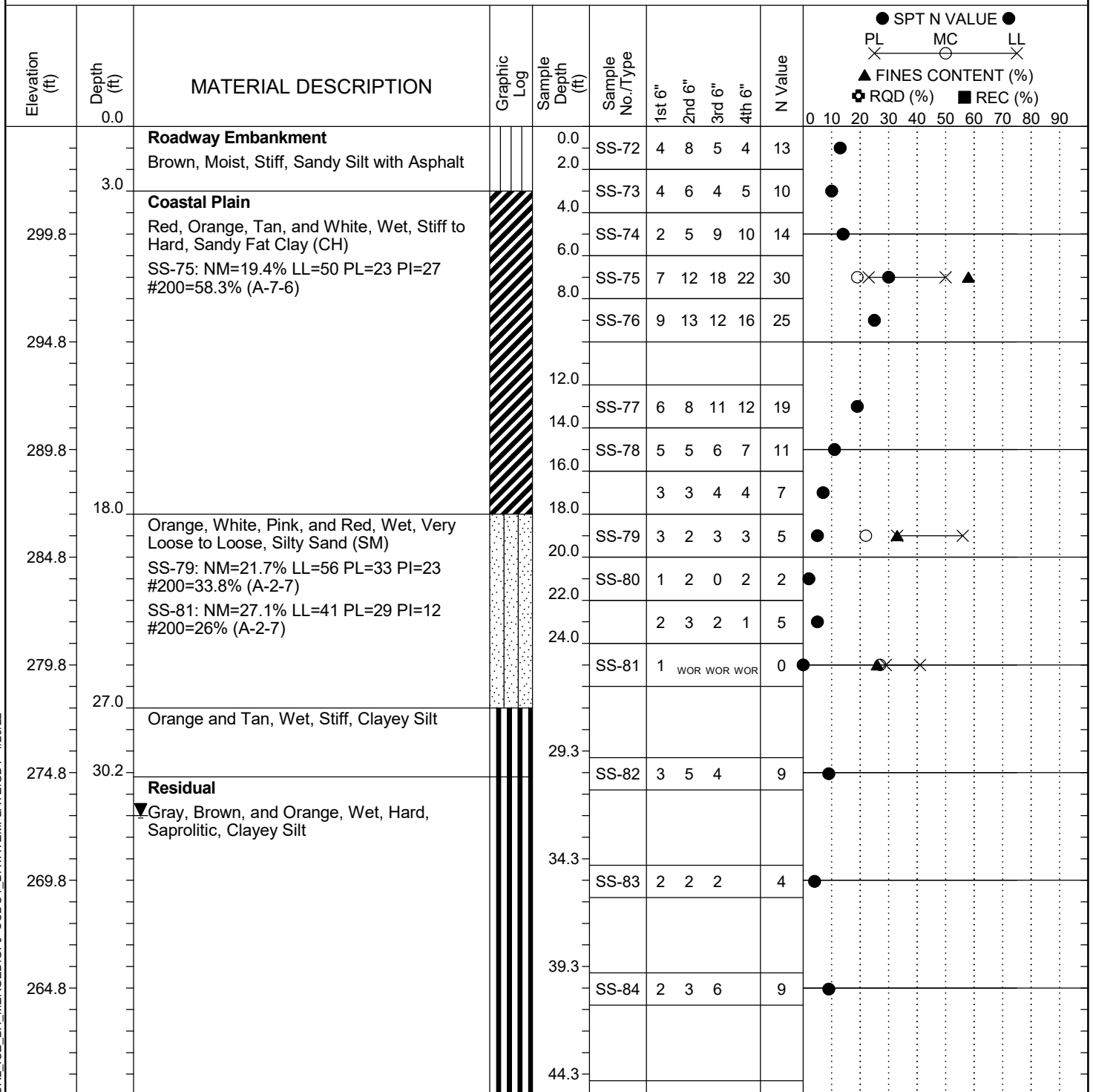
Project ID: P039719				County: Richland		Boring No.: G-010		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: C. McIlroy		Boring Location: 193+00		Offset: 78 LT		Alignment: I20CL		
Elev.: 307.9 ft		Latitude: 34.03880967		Longitude: -81.09690066		Date Started: 3/8/2022		
Total Depth: 30.7 ft		Soil Depth: 30.7 ft		Core Depth: N/A ft		Date Completed: 3/8/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #435		Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 84.4%		
Core Size: N/A		Driller: M. Morgan		Groundwater: TOB N/A		24HR Dry		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-011
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	C. McIlroy	Boring Location:	194+00	Offset:	78 LT
Elev.:	304.8 ft	Latitude:	34.03885825	Longitude:	-81.09658258
Total Depth:	45.8 ft	Soil Depth:	45.8 ft	Date Started:	3/8/2022
Core Depth:	N/A ft	Date Completed:	3/9/2022	Alignment:	I20CL
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	84.4%
Driller:	M. Morgan	Groundwater:	TOB	24HR	32 ft



LEGEND

Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

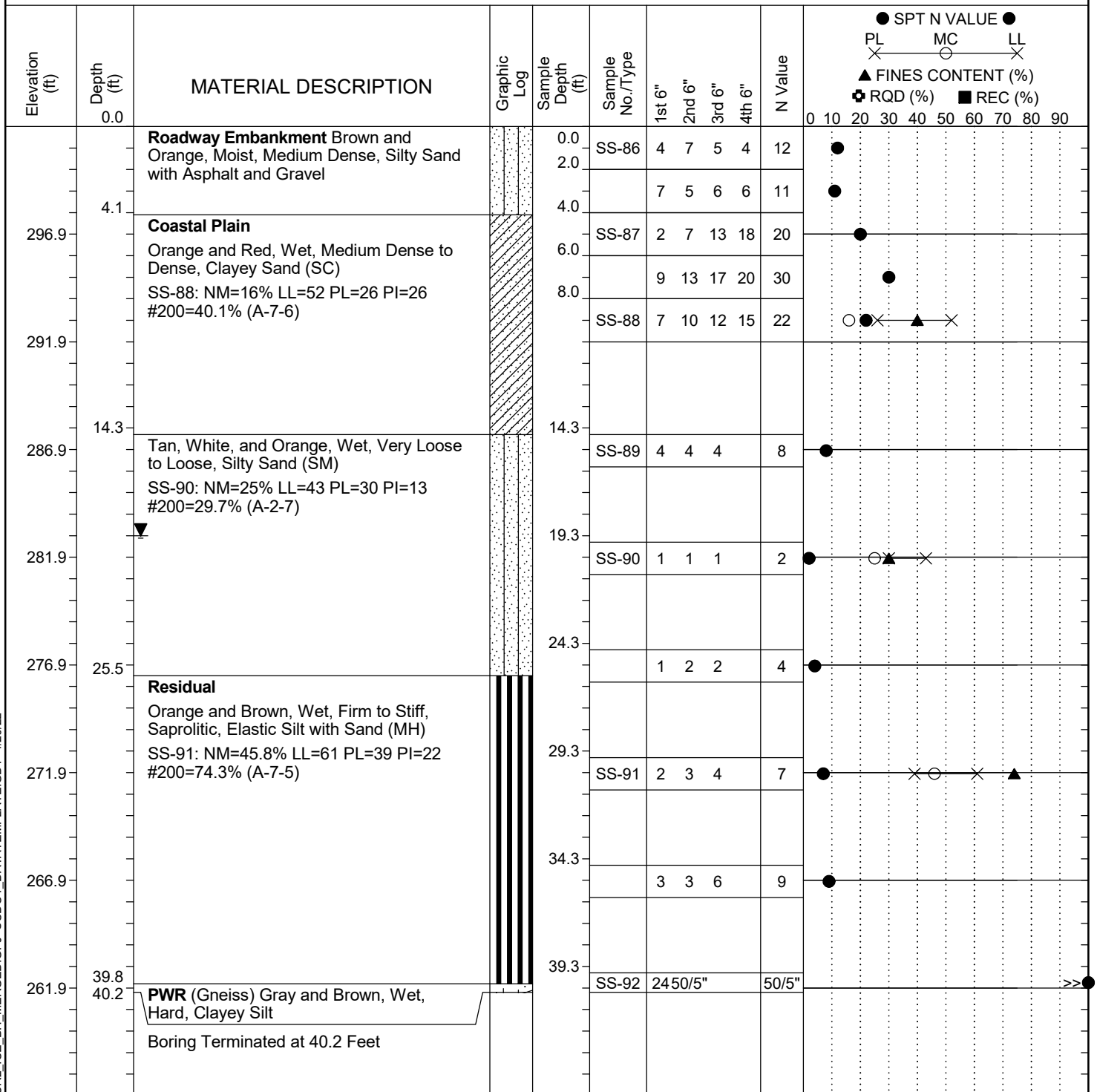
Project ID:	P039719	County:	Richland	Boring No.:	G-011
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	C. McIlroy	Boring Location:	194+00	Offset:	78 LT
Elev.:	304.8 ft	Latitude:	34.03885825	Longitude:	-81.09658258
Date Started:	3/8/2022				
Total Depth:	45.8 ft	Soil Depth:	45.8 ft	Core Depth:	N/A ft
Date Completed:	3/9/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	84.4%				
Core Size:	N/A	Driller:	M. Morgan	Groundwater:	TOB N/A
24HR	32 ft				

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	<div> ● SPT N VALUE ● PL MC LL X ——— X ▲ FINES CONTENT (%) + RQD (%) ■ REC (%) 0 10 20 30 40 50 60 70 80 90 </div>
	45.8	Boring Terminated at 45.8 Feet			SS-85	11	16	30		46	
254.8											
249.8											
244.8											
239.8											
234.8											
229.8											
224.8											
219.8											

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

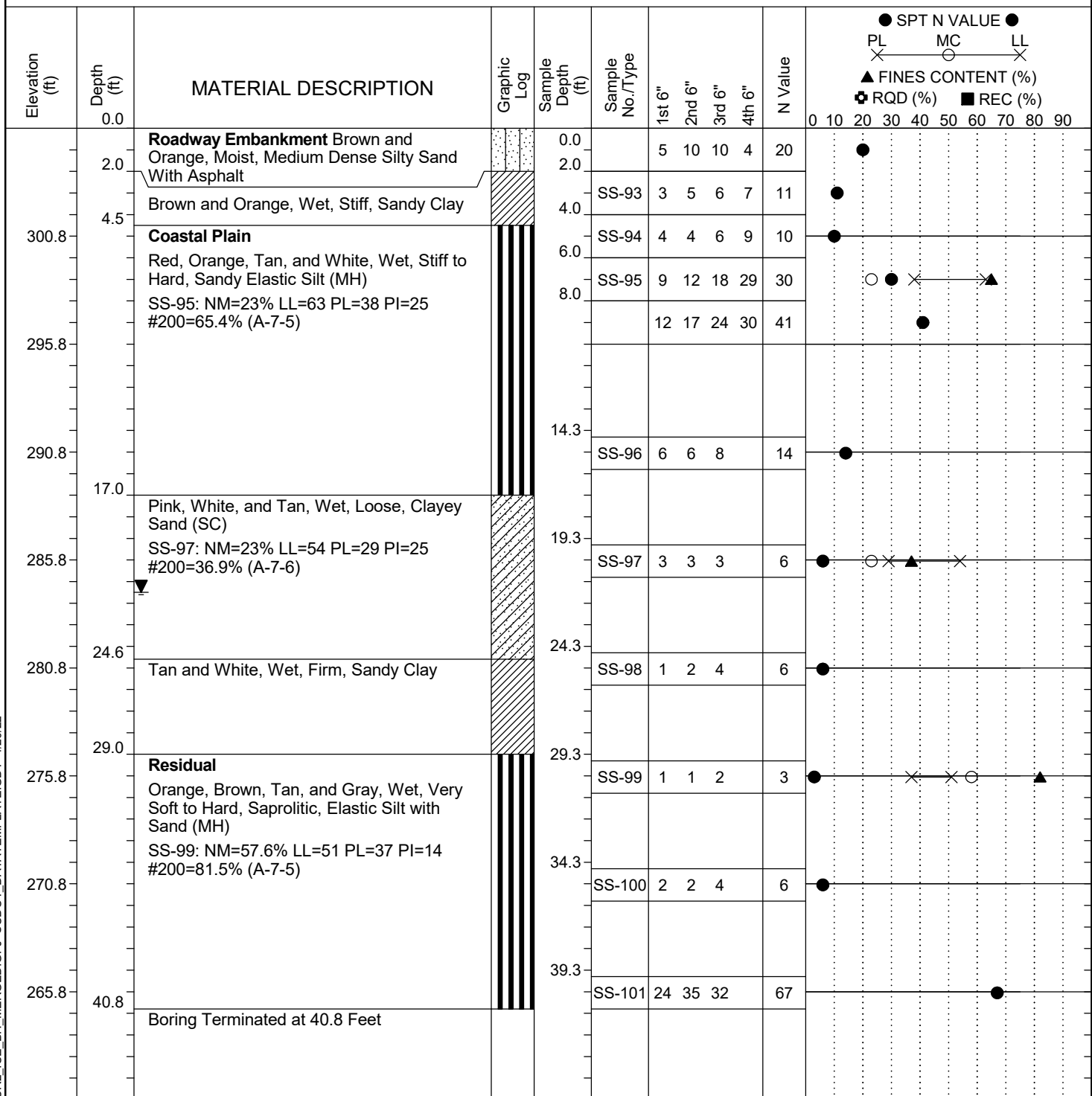
Project ID:	P039719	County:	Richland	Boring No.:	G-012
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	C. McIlroy	Boring Location:	195+00	Offset:	78 LT
Elev.:	301.9 ft	Latitude:	34.03891373	Longitude:	-81.09626613
Total Depth:	40.2 ft	Soil Depth:	40.2 ft	Date Started:	3/9/2022
Core Depth:	N/A ft	Date Completed:	3/9/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	24HR	19 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

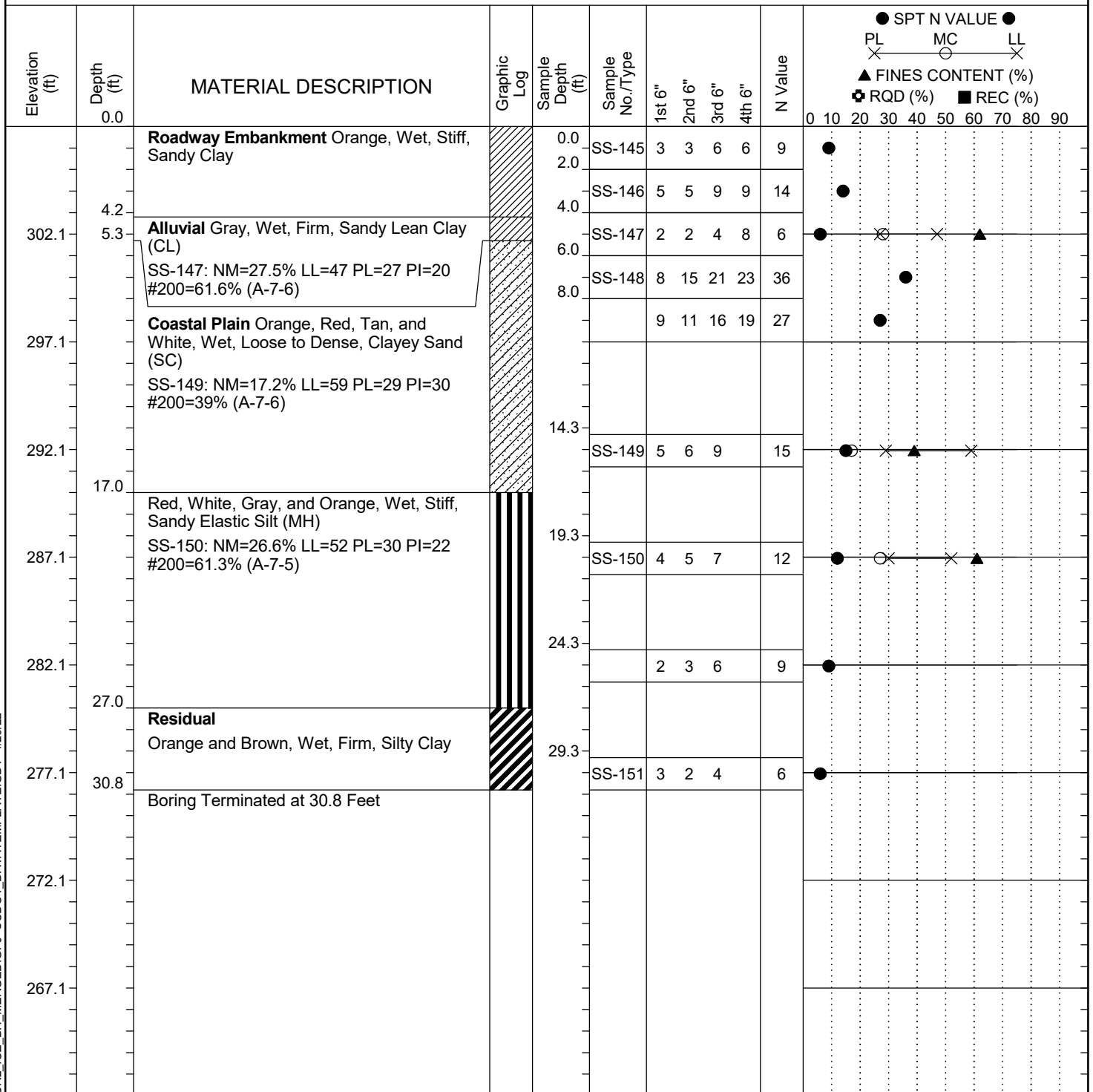
Project ID:	P039719	County:	Richland	Boring No.:	G-013
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	C. McIlroy	Boring Location:	195+00	Offset:	100 LT
Elev.:	305.8 ft	Latitude:	34.03897273	Longitude:	-81.09628203
Total Depth:	40.8 ft	Soil Depth:	40.8 ft	Date Started:	3/9/2022
Core Depth:	N/A ft	Date Completed:	3/9/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	24HR	21.5 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

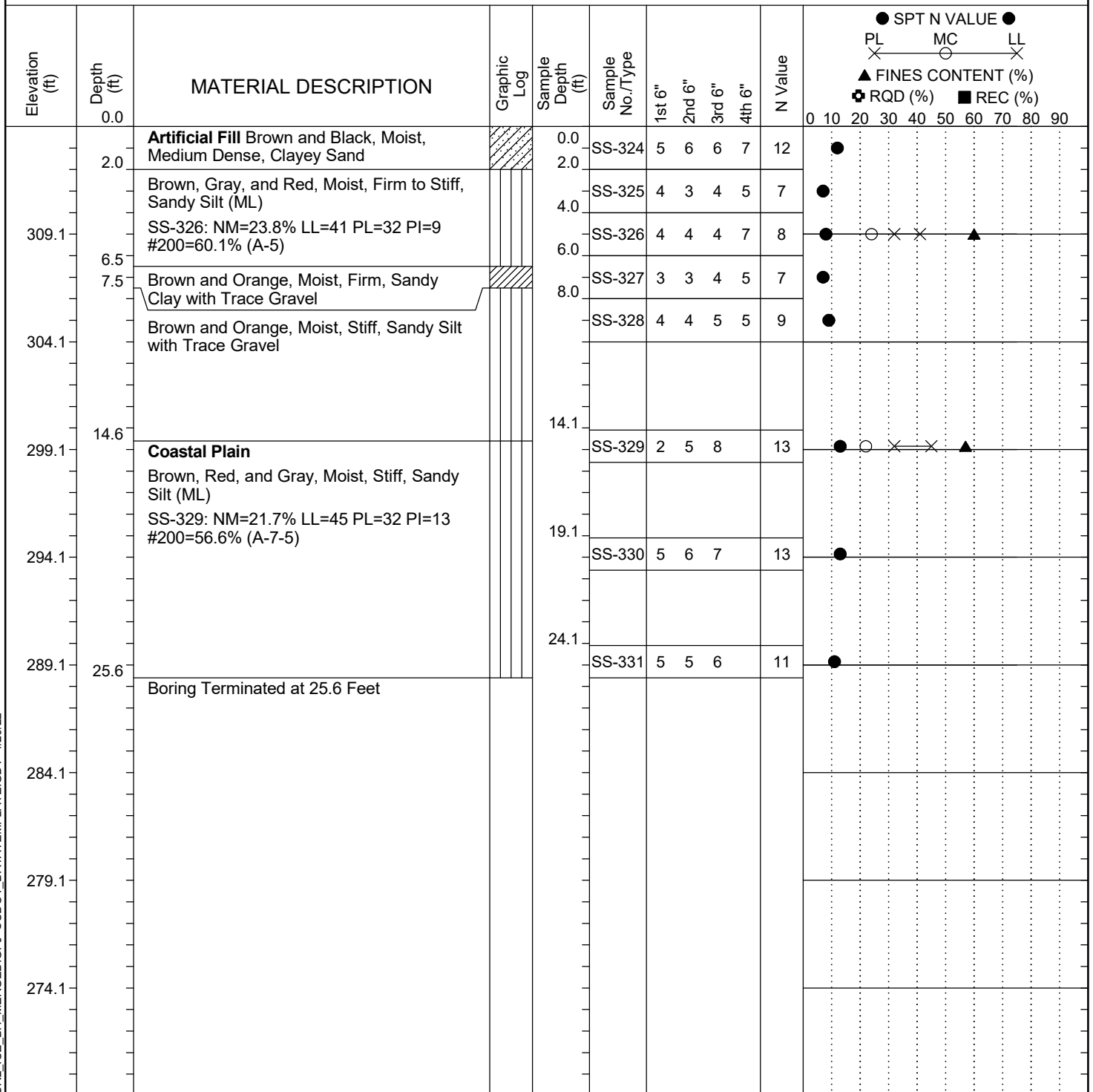
Project ID: P039719				County: Richland		Boring No.: G-015		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: C. McIlroy		Boring Location: 195+00		Offset: 160 LT		Alignment: I20CL		
Elev.: 307.1 ft		Latitude: 34.03913363		Longitude: -81.0963254		Date Started: 3/17/2022		
Total Depth: 30.8 ft		Soil Depth: 30.8 ft		Core Depth: N/A ft		Date Completed: 3/17/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #435		Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 84.4%		
Core Size: N/A		Driller: M. Morgan		Groundwater: TOB N/A		24HR N/A		



LEGEND

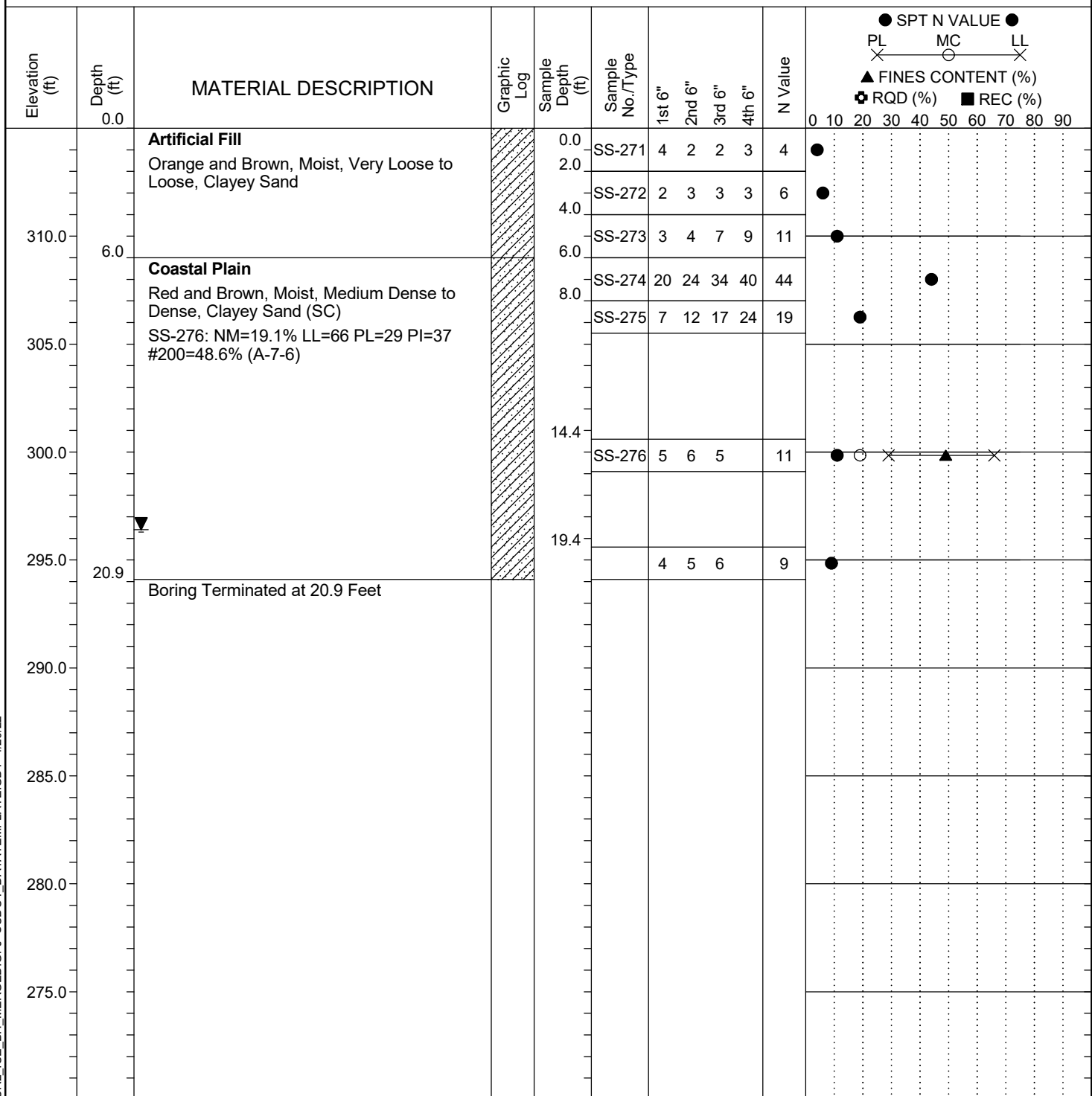
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719				County:	Richland			Boring No.:	G-016	
Site Description:	Carolina Crossroads Phase 2								Route:	I-20	
Eng./Geo.:	M. Stanbury		Boring Location:	199+00		Offset:	215 LT		Alignment:	120CL	
Elev.:	314.1 ft		Latitude:	34.03956076		Longitude:	-81.09516563		Date Started:	3/10/2022	
Total Depth:	25.6 ft		Soil Depth:	25.6 ft		Core Depth:	N/A ft		Date Completed:	3/10/2022	
Bore Hole Diameter (in):	2.25		Sampler Configuration			Liner Required:	Y (N)		Liner Used:	Y (N)	
Drill Machine:	D-50 #439		Drill Method:	RW		Hammer Type:	Automatic		Energy Ratio:	90.8%	
Core Size:	N/A		Driller:	R. Cassell		Groundwater:	TOB	N/A		24HR	


LEGEND

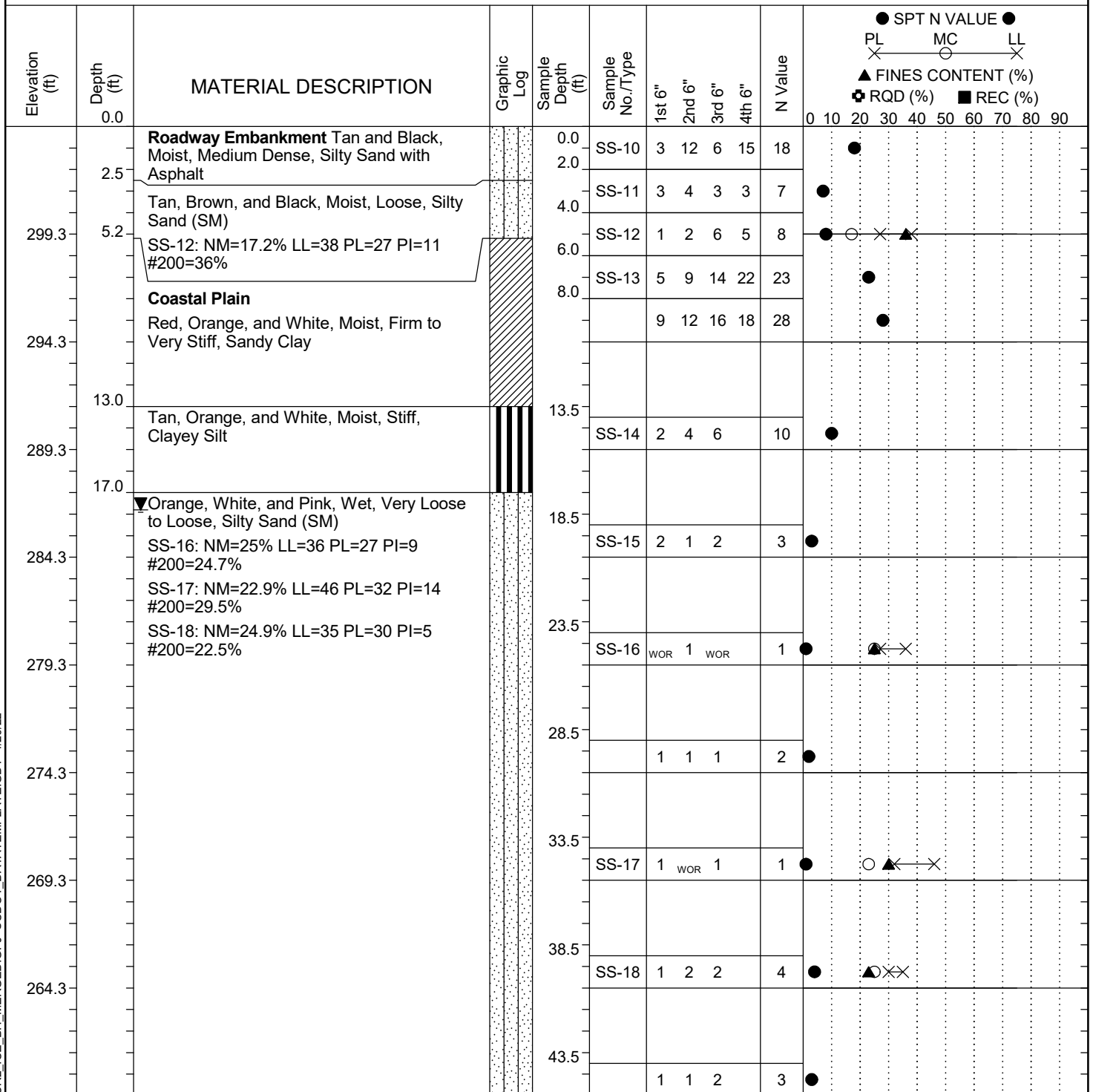
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-017
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	M. Stanbury	Boring Location:	201+50	Offset:	150 LT
Elev.:	315.0 ft	Latitude:	34.03962283	Longitude:	-81.09435453
Total Depth:	20.9 ft	Soil Depth:	20.9 ft	Date Started:	3/3/2022
Core Depth:	N/A ft	Date Completed:	3/3/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	18.6 ft


LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719				County:	Richland		Boring No.:	G-018		
Site Description:		Carolina Crossroads Phase 2							Route:	I-20	
Eng./Geo.:	M. Stanbury		Boring Location:	200+00		Offset:	130 LT	Alignment:	I20CL		
Elev.:	304.3 ft		Latitude:	34.03942757	Longitude:	-81.09477512		Date Started:	2/24/2022		
Total Depth:	55 ft		Soil Depth:	55 ft	Core Depth:	N/A ft		Date Completed:	2/24/2022		
Bore Hole Diameter (in):			2.25	Sampler Configuration		Liner Required:	Y (N)		Liner Used:	Y (N)	
Drill Machine:	D-50 #439		Drill Method:	HSA		Hammer Type:	Automatic		Energy Ratio:	90.8%	
Core Size:	N/A		Driller:	M. Morgan		Groundwater:	TOB	N/A		24HR	17.8 ft

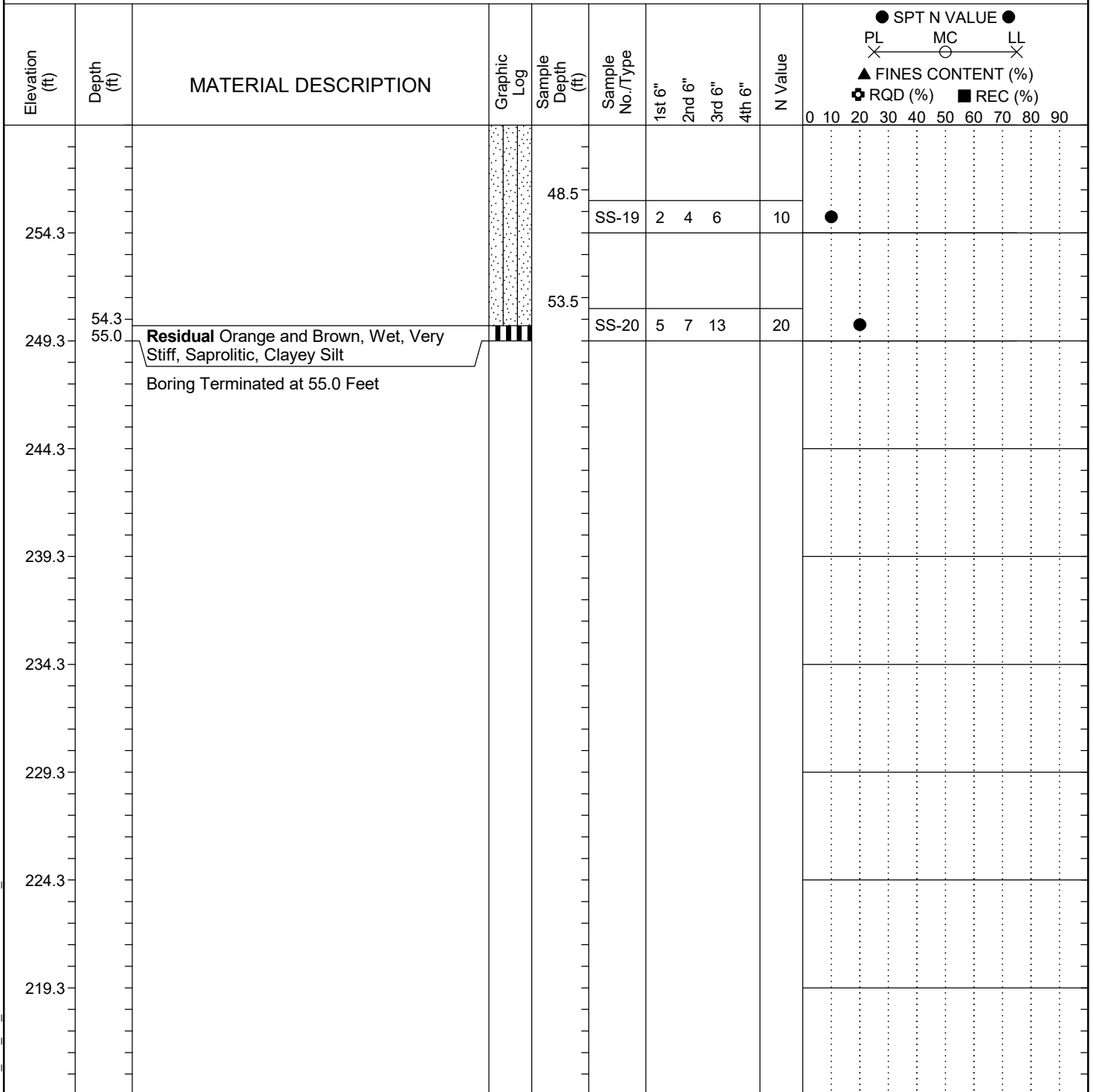


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

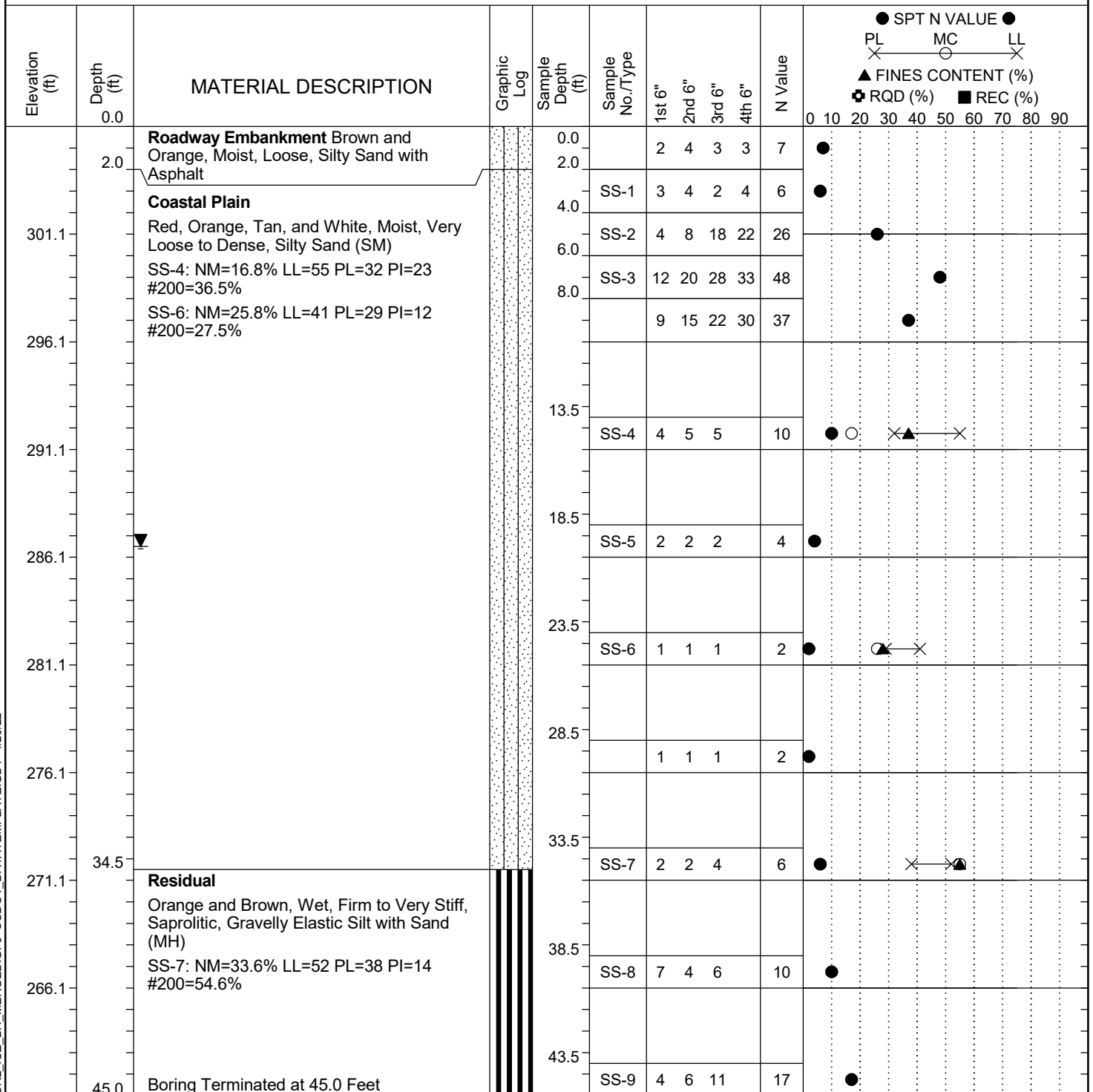
Project ID: P039719				County: Richland		Boring No.: G-018		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: M. Stanbury		Boring Location: 200+00		Offset: 130 LT		Alignment: I20CL		
Elev.: 304.3 ft		Latitude: 34.03942757		Longitude: -81.09477512		Date Started: 2/24/2022		
Total Depth: 55 ft		Soil Depth: 55 ft		Core Depth: N/A ft		Date Completed: 2/24/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #439		Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 90.8%		
Core Size: N/A		Driller: M. Morgan		Groundwater: TOB N/A		24HR 17.8 ft		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

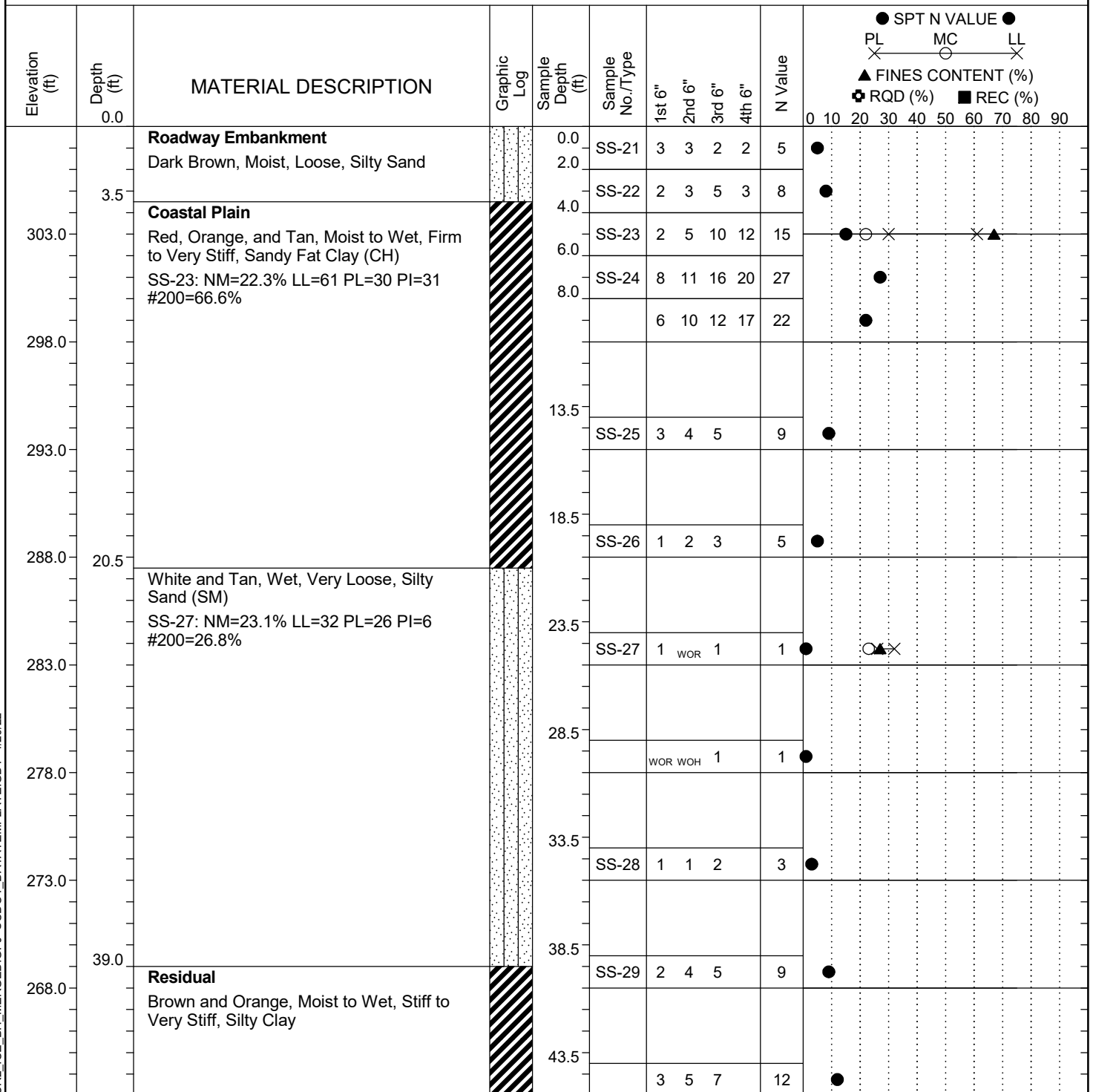
Project ID: P039719				County: Richland		Boring No.: G-019		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: M. Stanbury		Boring Location: 200+05		Offset: 195 LT		Alignment: I20CL		
Elev.: 306.1 ft		Latitude: 34.03959978		Longitude: -81.09483432		Date Started: 2/24/2022		
Total Depth: 45 ft		Soil Depth: 45 ft		Core Depth: N/A ft		Date Completed: 2/24/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #439		Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 90.8%		
Core Size: N/A		Driller: M. Morgan		Groundwater: TOB 20 ft		24HR 19.5 ft		



LEGEND


SAMPLER TYPE			DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"		HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings		CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube		DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-020
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	M. Stanbury	Boring Location:	201+00	Offset:	120 LT
Elev.:	308.0 ft	Latitude:	34.0394967	Longitude:	-81.09446502
Total Depth:	50 ft	Soil Depth:	50 ft	Date Started:	2/25/2022
Core Depth:	N/A ft	Date Completed:	2/25/2022	Alignment:	I20CL
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	HSA	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	90.8%
Driller:	M. Morgan	Groundwater:	TOB	24HR	N/A


LEGEND
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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

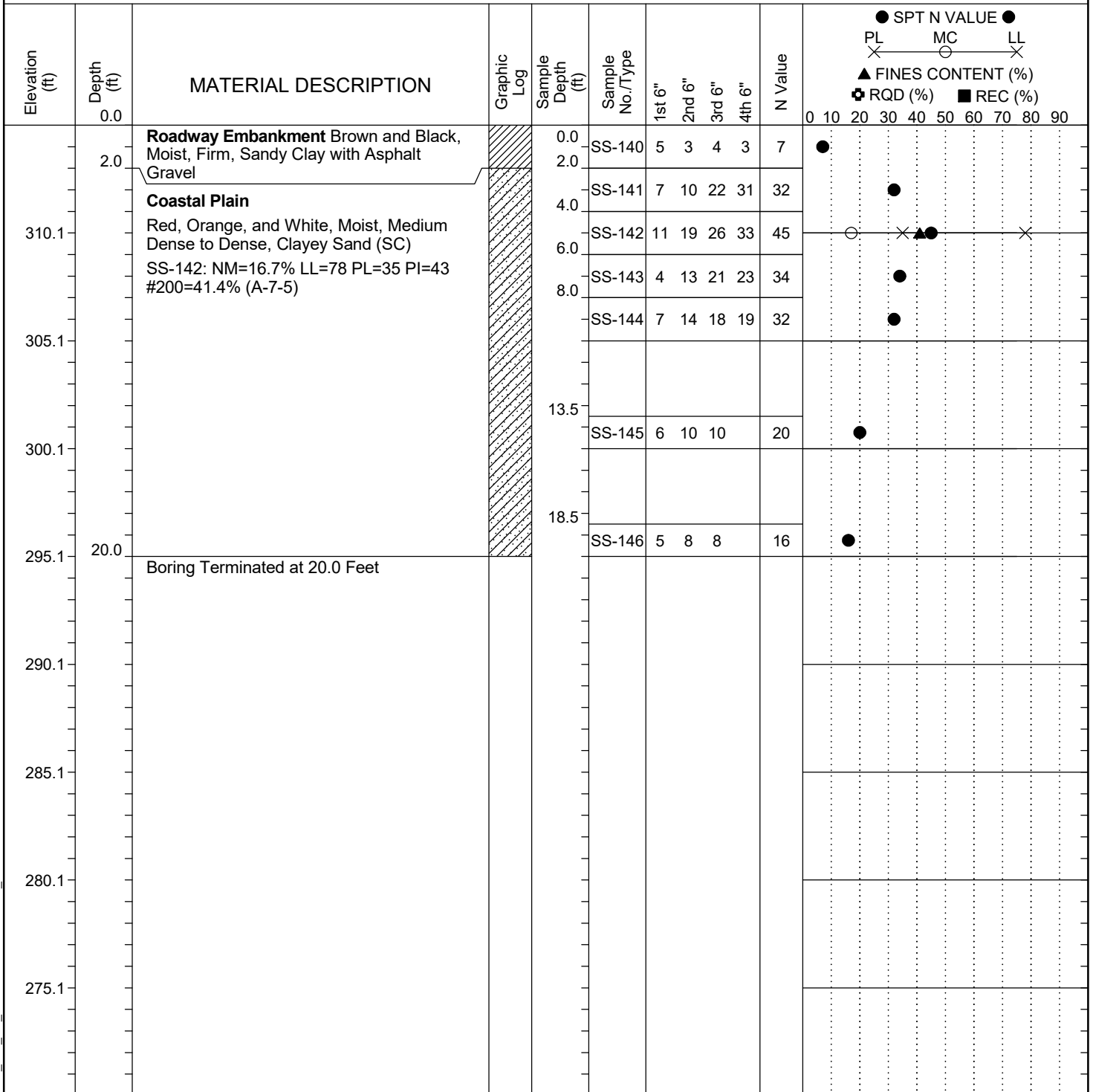
Project ID:	P039719	County:	Richland	Boring No.:	G-020
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	M. Stanbury	Boring Location:	201+00	Offset:	120 LT
Elev.:	308.0 ft	Latitude:	34.0394967	Longitude:	-81.09446502
Total Depth:	50 ft	Soil Depth:	50 ft	Date Started:	2/25/2022
Core Depth:	N/A ft	Date Completed:	2/25/2022	Alignment:	I20CL
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	HSA	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	90.8%
Driller:	M. Morgan	Groundwater:	TOB	24HR	N/A

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	● SPT N VALUE ● PL — MC — LL X — X — X ▲ FINES CONTENT (%) + RQD (%) ■ REC (%) 0 10 20 30 40 50 60 70 80 90
258.0	50.0	Boring Terminated at 50.0 Feet		48.5	SS-30	11	10	17		27	●
253.0											
248.0											
243.0											
238.0											
233.0											
228.0											
223.0											

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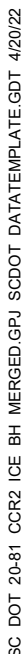
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID: P039719				County: Richland		Boring No.: G-021		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: C. Stephens		Boring Location: 208+00		Offset: 120 LT		Alignment: I20CL		
Elev.: 315.1 ft		Latitude: 34.04031206		Longitude: -81.09241146		Date Started: 2/17/2022		
Total Depth: 20 ft		Soil Depth: 20 ft		Core Depth: N/A ft		Date Completed: 2/17/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #439		Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 90.8%		
Core Size: N/A		Driller: R. Cassell		Groundwater: TOB 5.9 ft		24HR Dry		



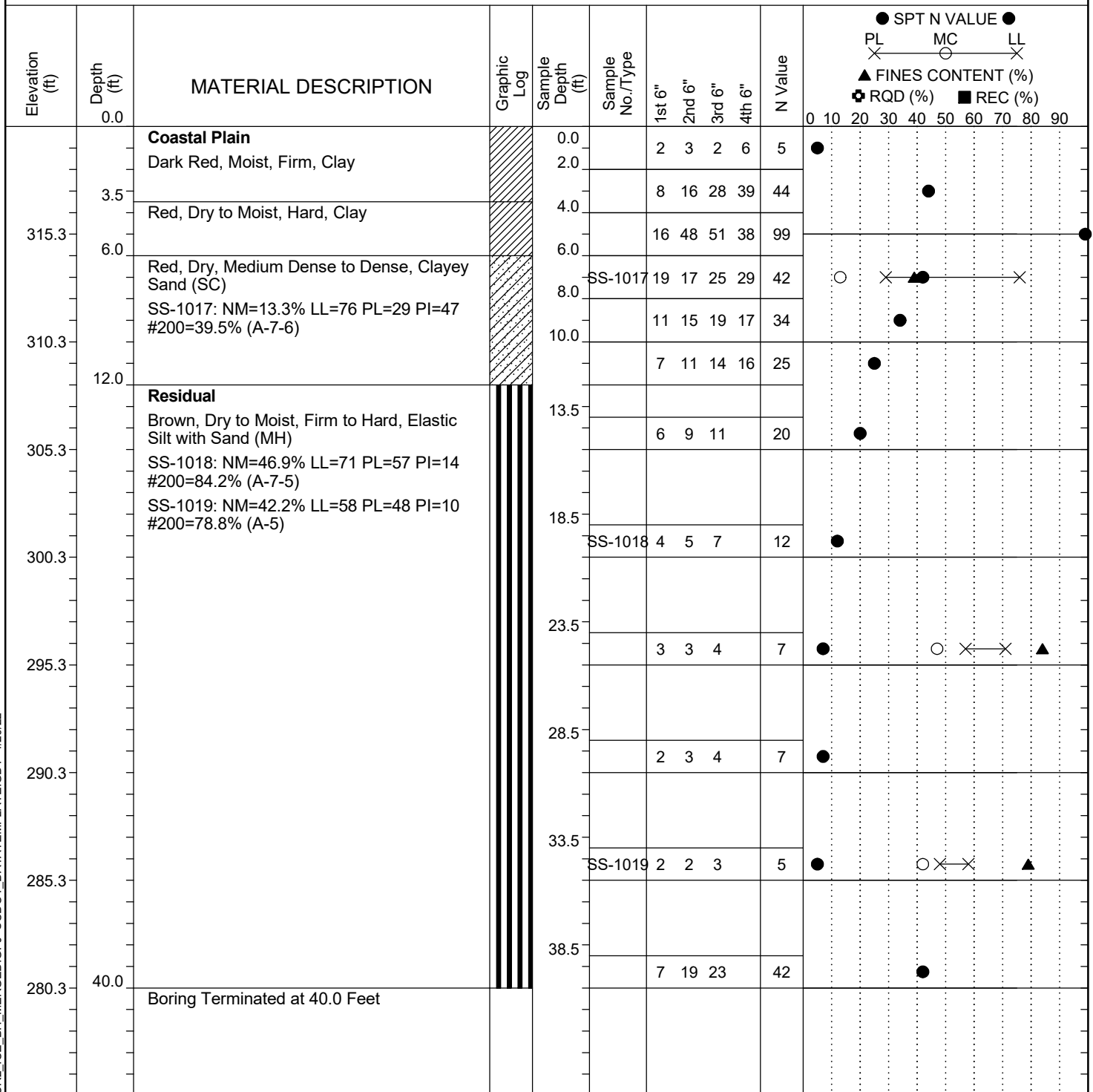
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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	



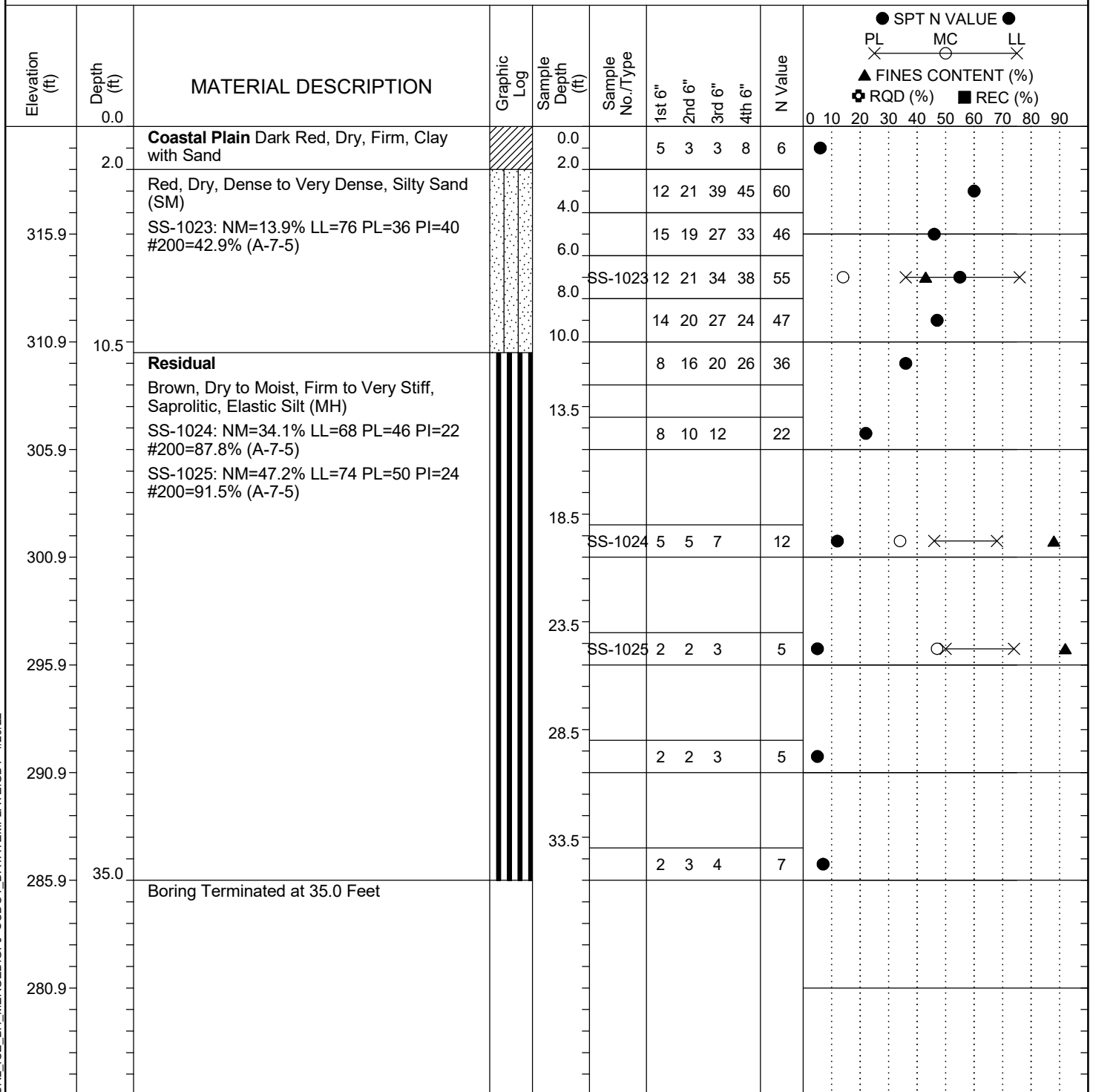
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-023
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	T. Park	Boring Location:	214+00	Offset:	180 LT
Elev.:	320.3 ft	Latitude:	34.04120011	Longitude:	-81.09073066
Total Depth:	40 ft	Soil Depth:	40 ft	Date Started:	2/14/2022
Core Depth:	N/A ft	Date Completed:	2/14/2022	Alignment:	I20CL
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	86%
Driller:	A. Fowler	Groundwater:	TOB	24HR	Dry


LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

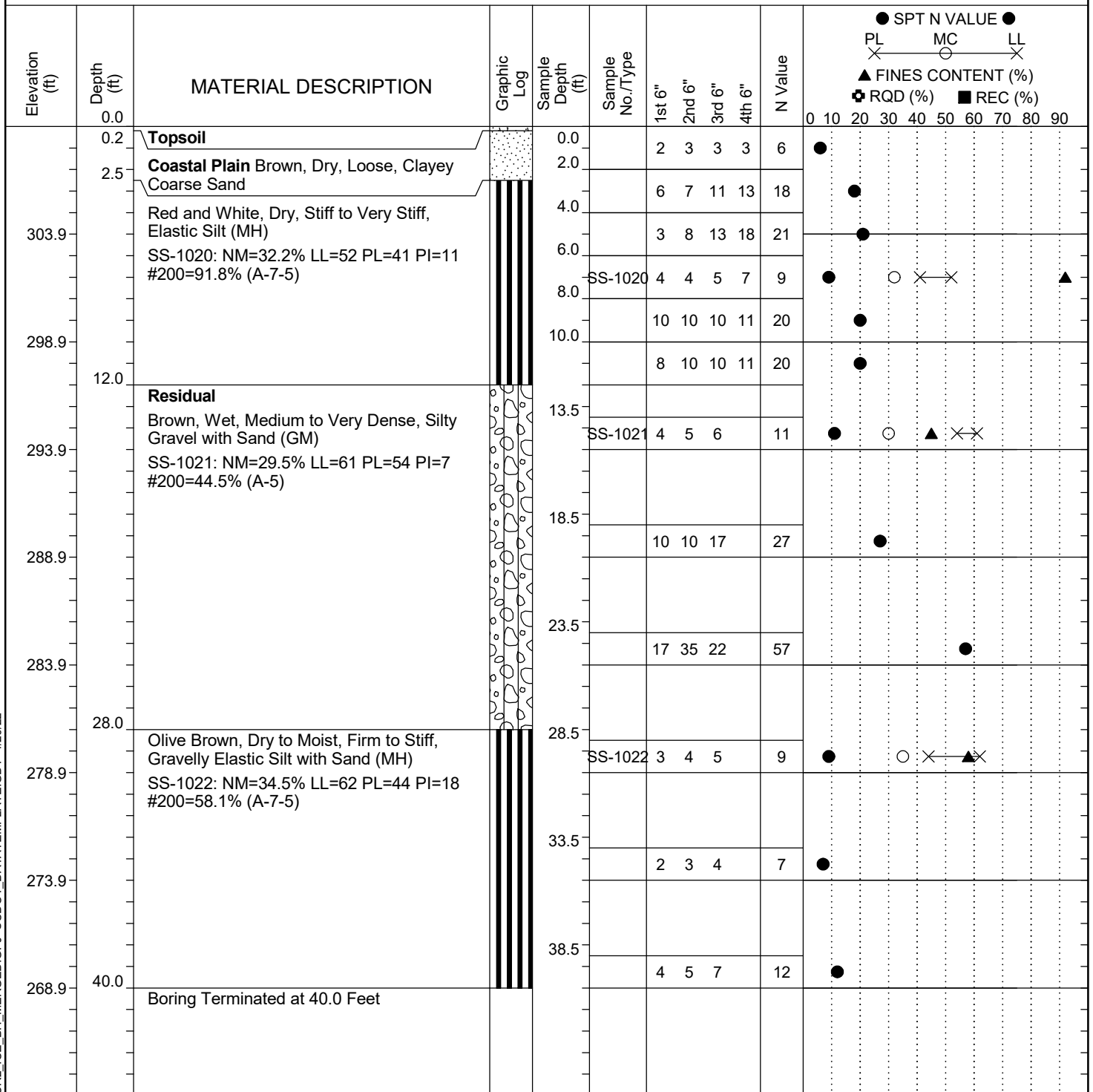
Project ID: P039719				County: Richland		Boring No.: G-024		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: O. Daynes		Boring Location: 215+00		Offset: 220 LT		Alignment: I20CL		
Elev.: 320.9 ft		Latitude: 34.04142178		Longitude: -81.09049501		Date Started: 2/14/2022		
Total Depth: 35 ft		Soil Depth: 35 ft		Core Depth: N/A ft		Date Completed: 2/14/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31		Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%		
Core Size: N/A		Driller: A. Fowler		Groundwater: TOB Dry		24HR Dry		



LEGEND

SAMPLER TYPE				DRILLING METHOD	
SS	- Split Spoon	NQ	- Rock Core, 1-7/8"	HSA	- Hollow Stem Auger
UD	- Undisturbed Sample	CU	- Cuttings	CFA	- Continuous Flight Augers
AWG	- Rock Core, 1-1/8"	CT	- Continuous Tube	DC	- Driving Casing
				RW	- Rotary Wash
				RC	- Rock Core

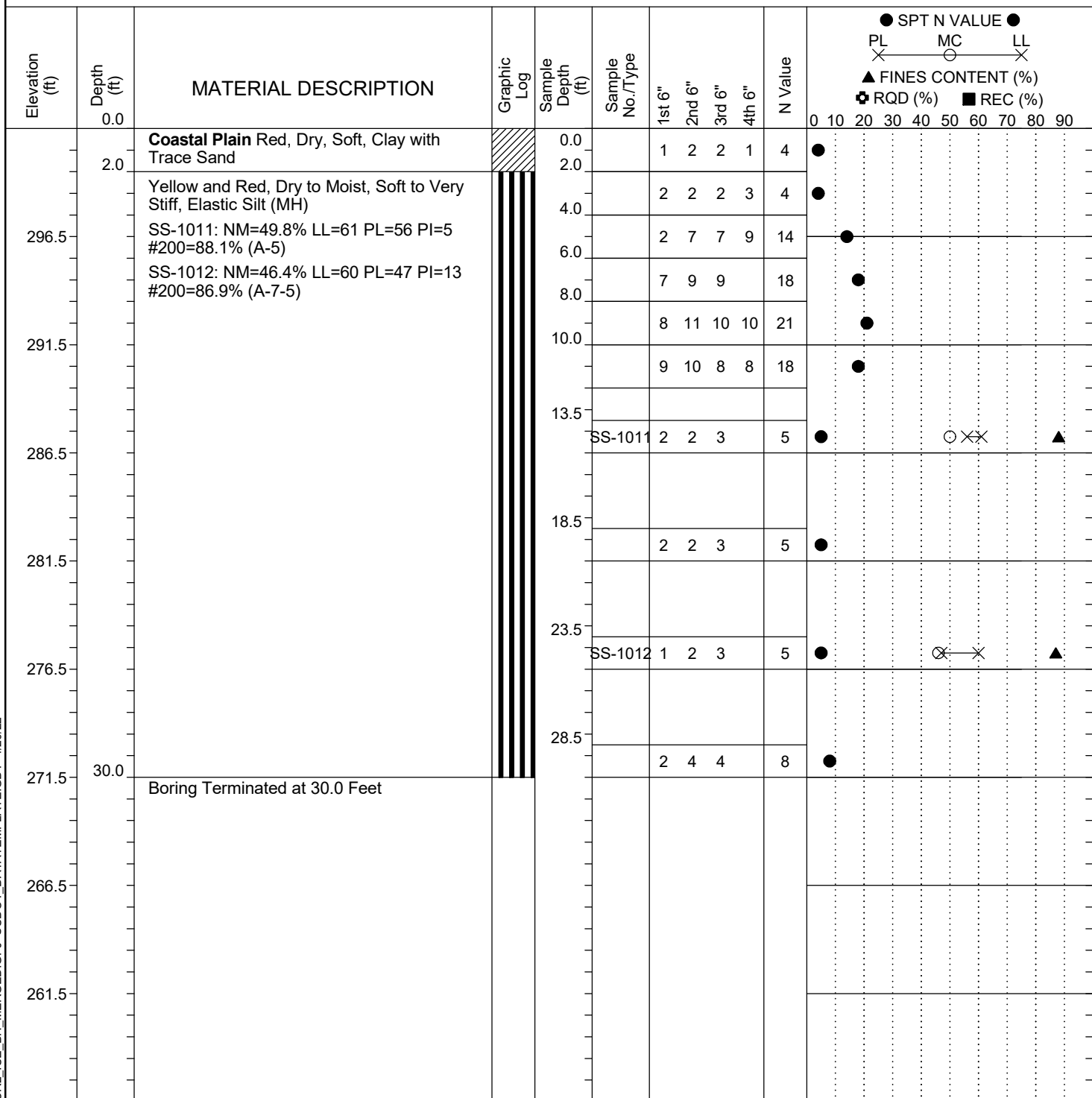
Project ID:	P039719	County:	Richland	Boring No.:	G-025
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	T. Park	Boring Location:	217+00	Offset:	215 LT
Elev.:	308.9 ft	Latitude:	34.0416564	Longitude:	-81.08989766
Total Depth:	40 ft	Soil Depth:	40 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB N/A
				Energy Ratio:	86%
				24HR	N/A



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

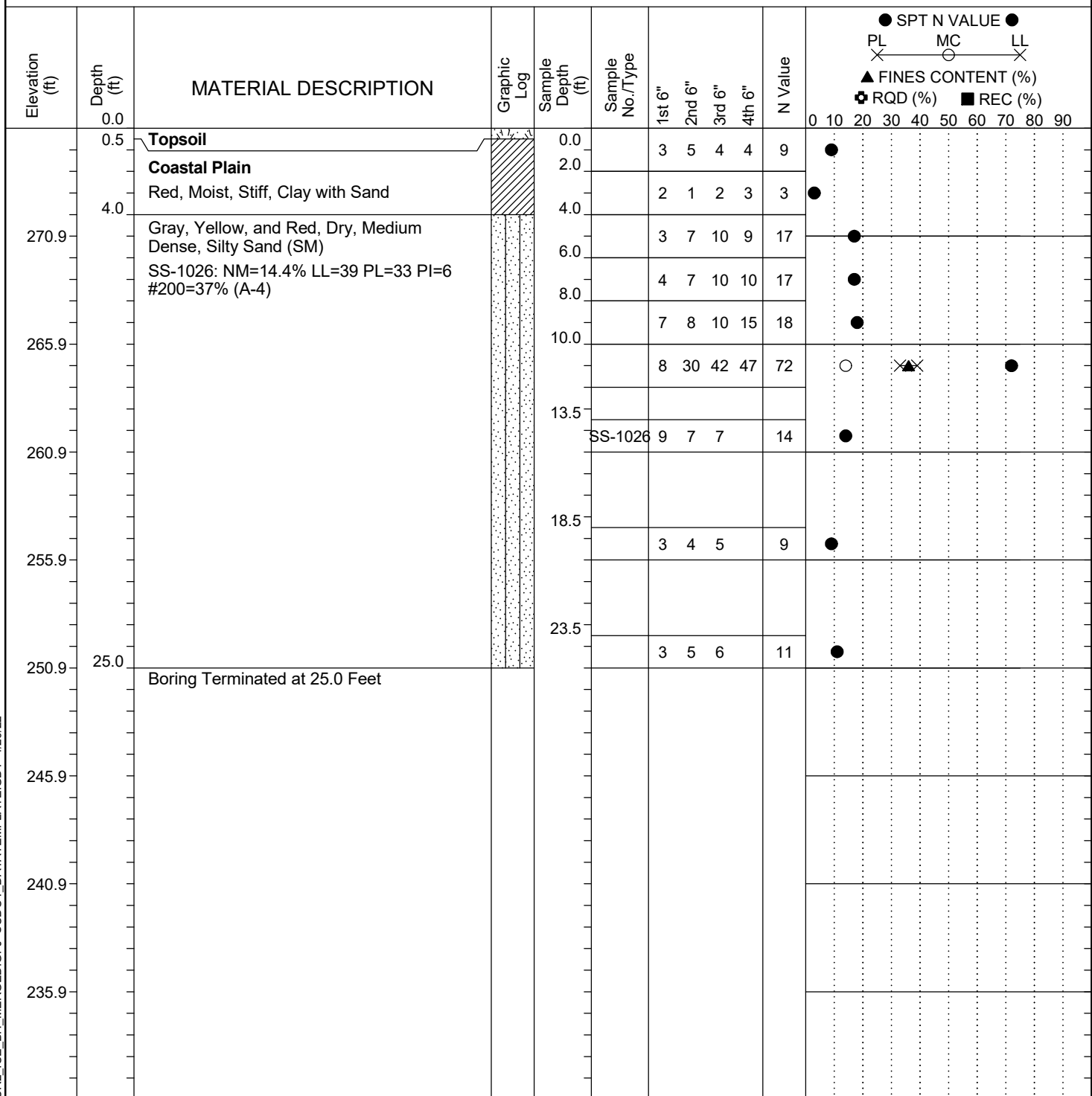
Project ID:		P039719				County:		Richland		Boring No.:		G-026					
Site Description:		Carolina Crossroads Phase 2									Route:		I-20				
Eng./Geo.:		O. Daynes		Boring Location:			219+00		Offset:		195 LT		Alignment:		I20CL		
Elev.:		301.5 ft		Latitude:		34.04185419		Longitude:		-81.08927807		Date Started:		2/16/2022			
Total Depth:		30 ft		Soil Depth:		30 ft		Core Depth:		N/A ft		Date Completed:		2/16/2022			
Bore Hole Diameter (in):				2.25		Sampler Configuration			Liner Required:		Y (N)		Liner Used:		Y (N)		
Drill Machine:		CME-45B #31			Drill Method:			HSA		Hammer Type:		Automatic		Energy Ratio:		86%	
Core Size:		N/A			Driller:		A. Fowler			Groundwater:		TOB Dry		24HR		Dry	



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

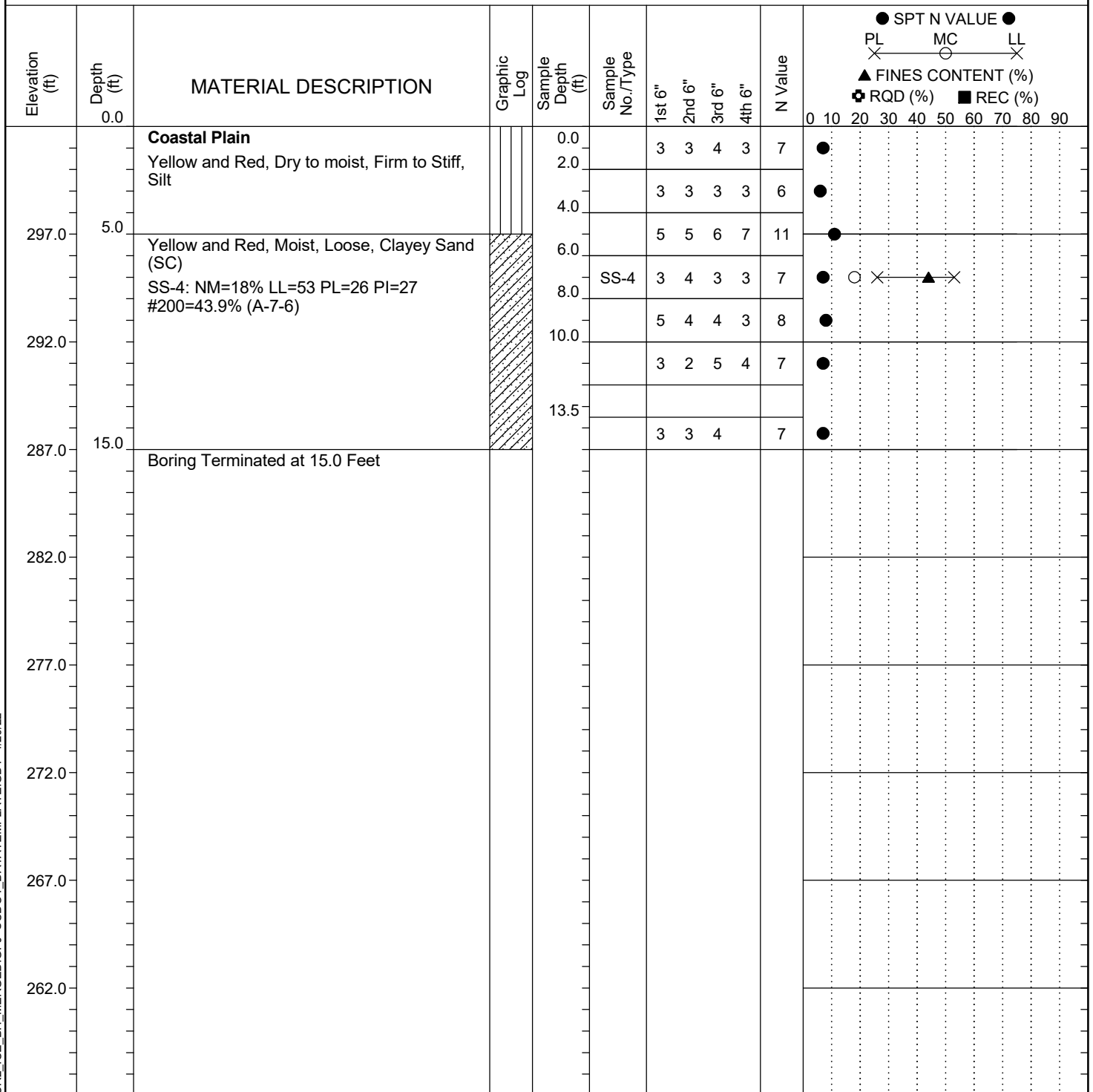
Project ID:	P039719	County:	Richland	Boring No.:	G-027
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	T. Park	Boring Location:	221+00	Offset:	160 LT
Elev.:	275.9 ft	Latitude:	34.04201514	Longitude:	-81.08863623
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				24HR	Dry



LEGEND

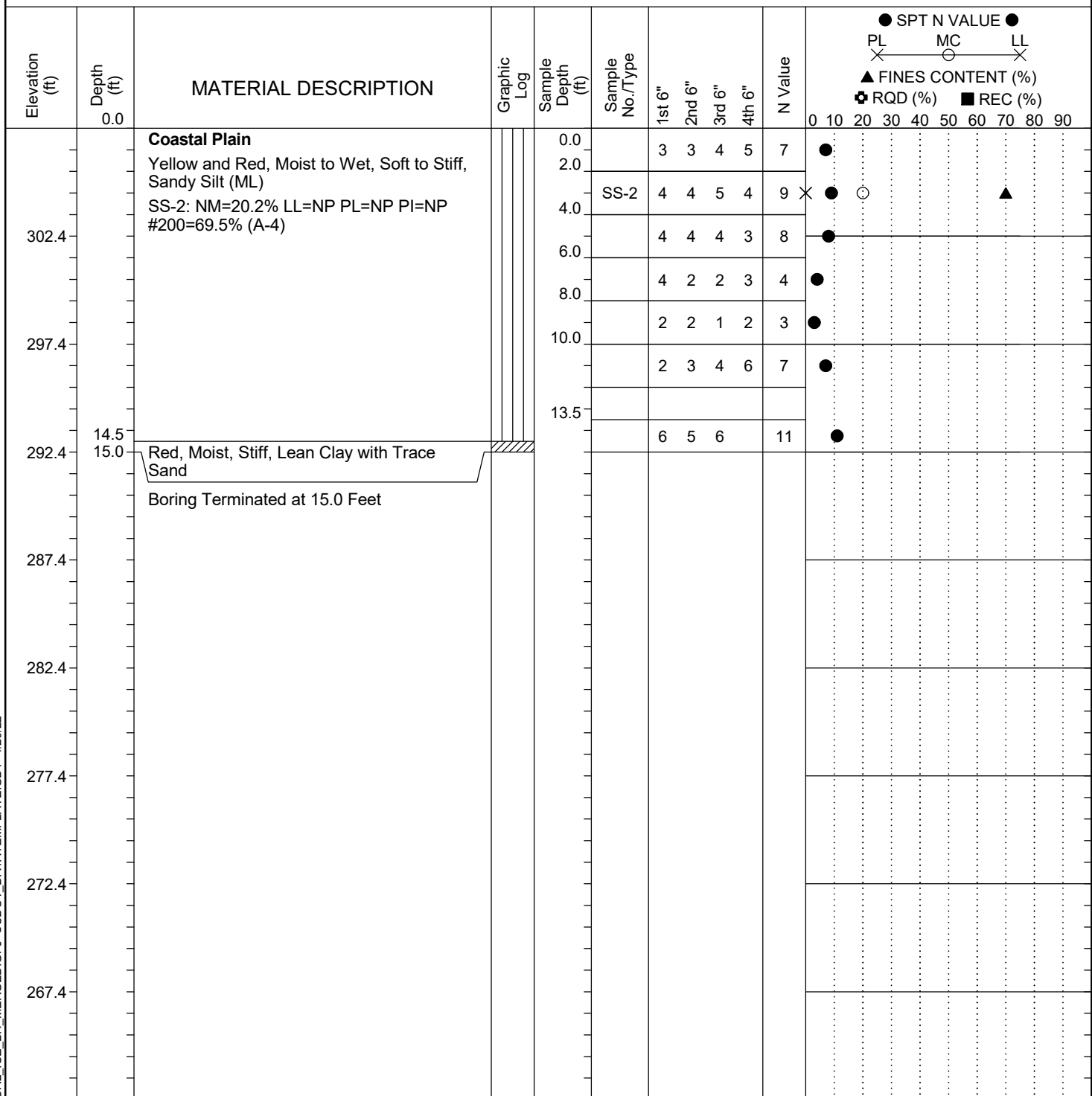
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID: P039719				County: Richland		Boring No.: G-028		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: O. Daynes		Boring Location: 196+50			Offset: 80 RT		Alignment: I20CL	
Elev.: 302.0 ft		Latitude: 34.03859019		Longitude: -81.09566094		Date Started: 2/28/2022		
Total Depth: 15 ft		Soil Depth: 15 ft		Core Depth: N/A ft		Date Completed: 2/28/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration			Liner Required: Y (N)		Liner Used: Y (N)	
Drill Machine: CME-45B #31		Drill Method: HSA			Hammer Type: Automatic		Energy Ratio: 86%	
Core Size: N/A		Driller: A. Fowler			Groundwater: TOB Dry		24HR Dry	


LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

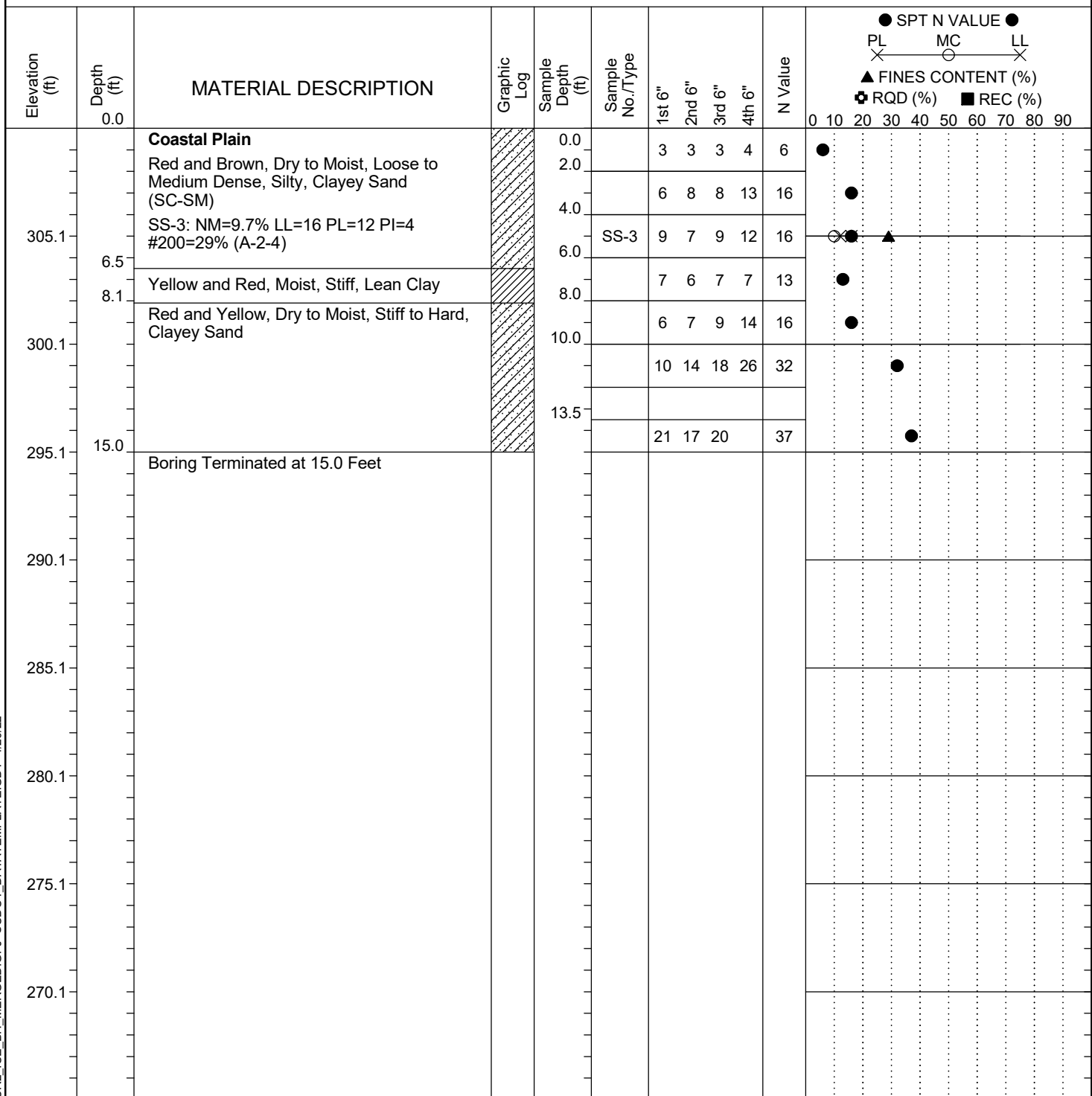
Project ID:	P039719	County:	Richland	Boring No.:	G-029
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	198+50	Offset:	110 RT
Elev.:	307.4 ft	Latitude:	34.0386701	Longitude:	-81.09498389
Total Depth:	15 ft	Soil Depth:	15 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				24HR	Dry



LEGEND

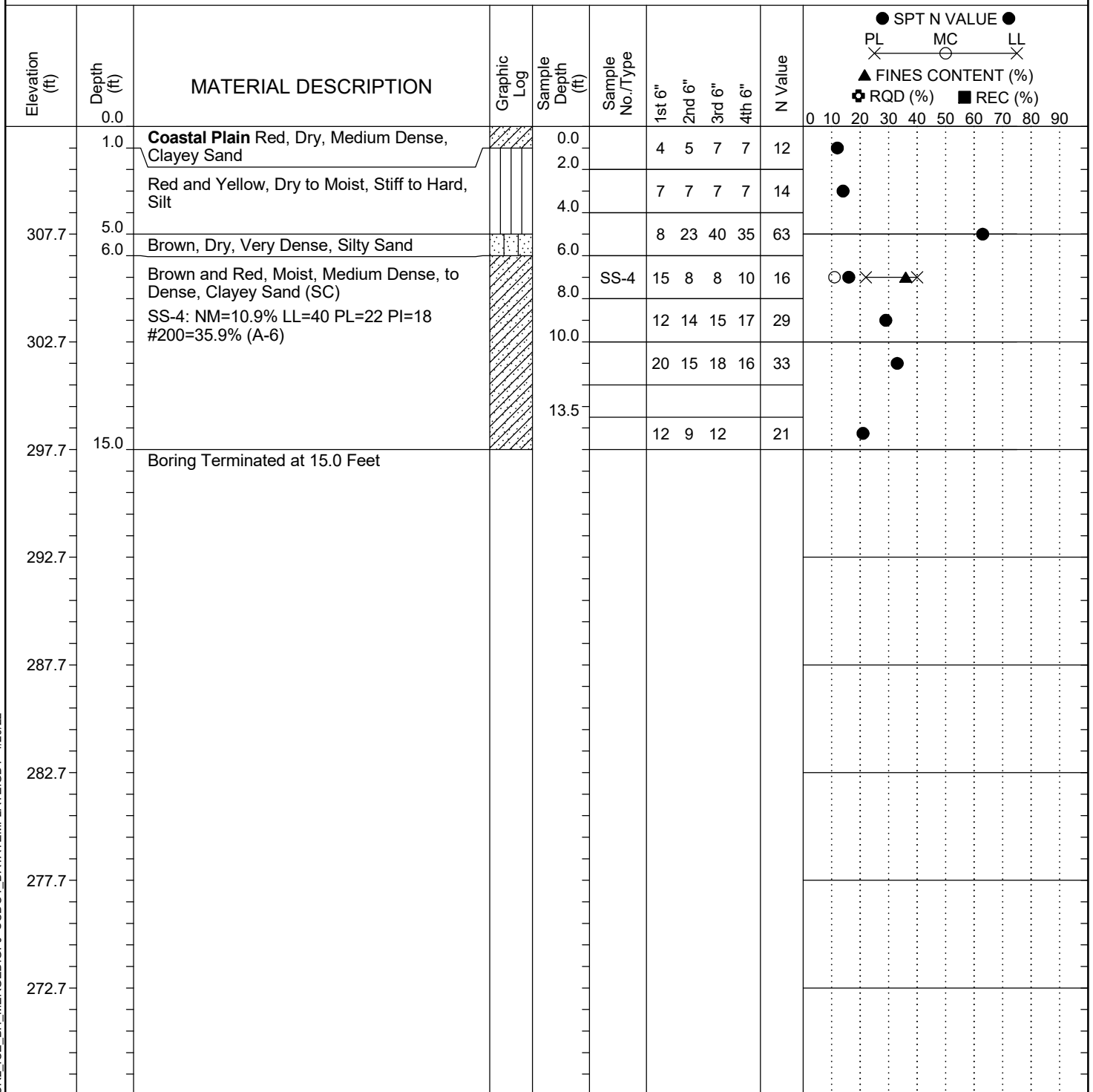
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-030
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	201+50	Offset:	110 RT
Elev.:	310.1 ft	Latitude:	34.03896214	Longitude:	-81.09402753
Total Depth:	15 ft	Soil Depth:	15 ft	Date Started:	2/28/2022
Core Depth:	N/A ft	Date Completed:	2/28/2022	Alignment:	I20CL
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	86%
Driller:	A. Fowler	Groundwater:	TOB	24HR	Dry


LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

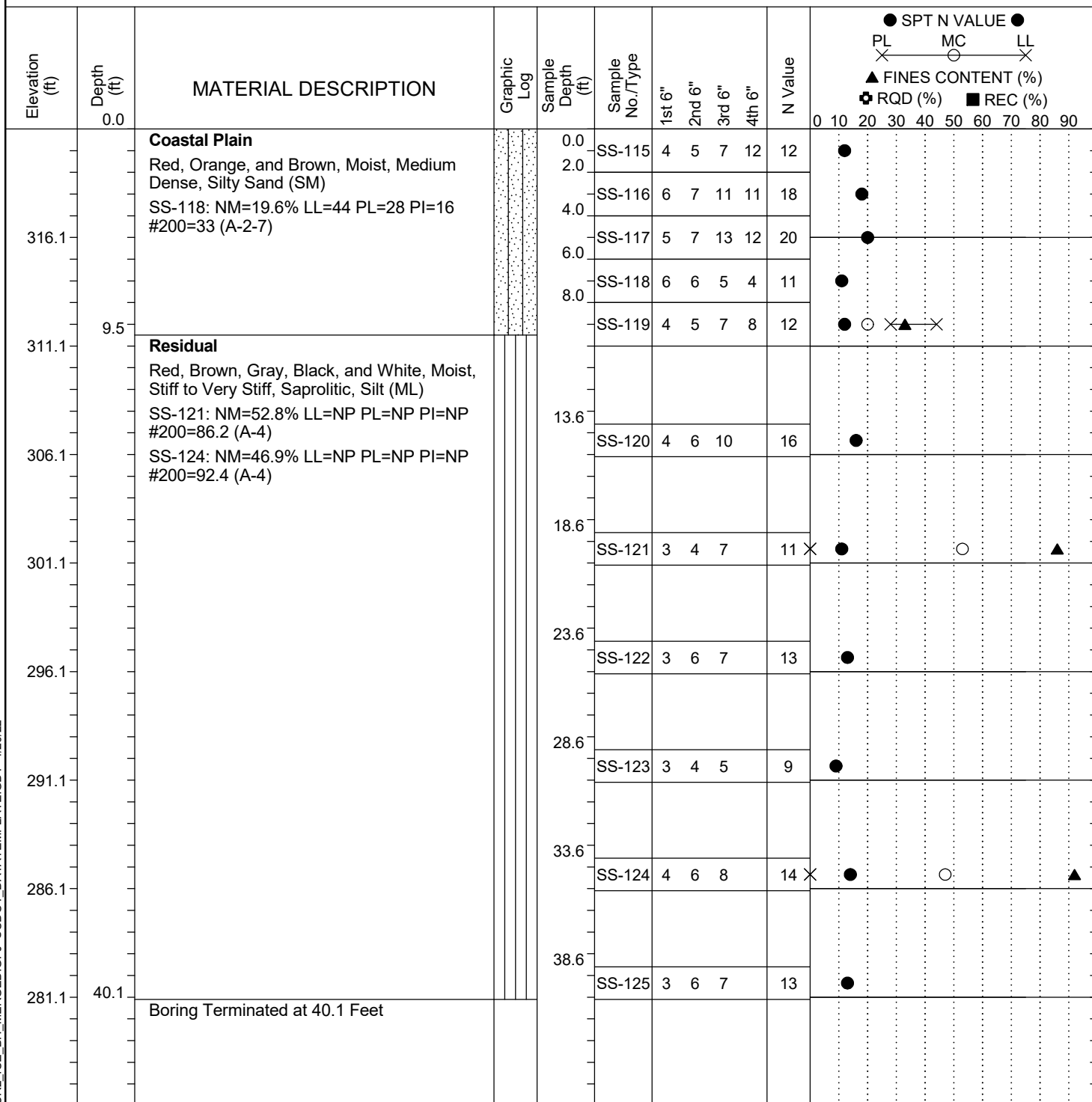
Project ID: P039719				County: Richland		Boring No.: G-031		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: O. Daynes		Boring Location: 202+50		Offset: 110 RT		Alignment: I20CL		
Elev.: 312.7 ft		Latitude: 34.03907327		Longitude: -81.09371523		Date Started: 2/28/2022		
Total Depth: 15 ft		Soil Depth: 15 ft		Core Depth: N/A ft		Date Completed: 2/28/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31		Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%		
Core Size: N/A		Driller: A. Fowler		Groundwater: TOB Dry		24HR Dry		



LEGEND

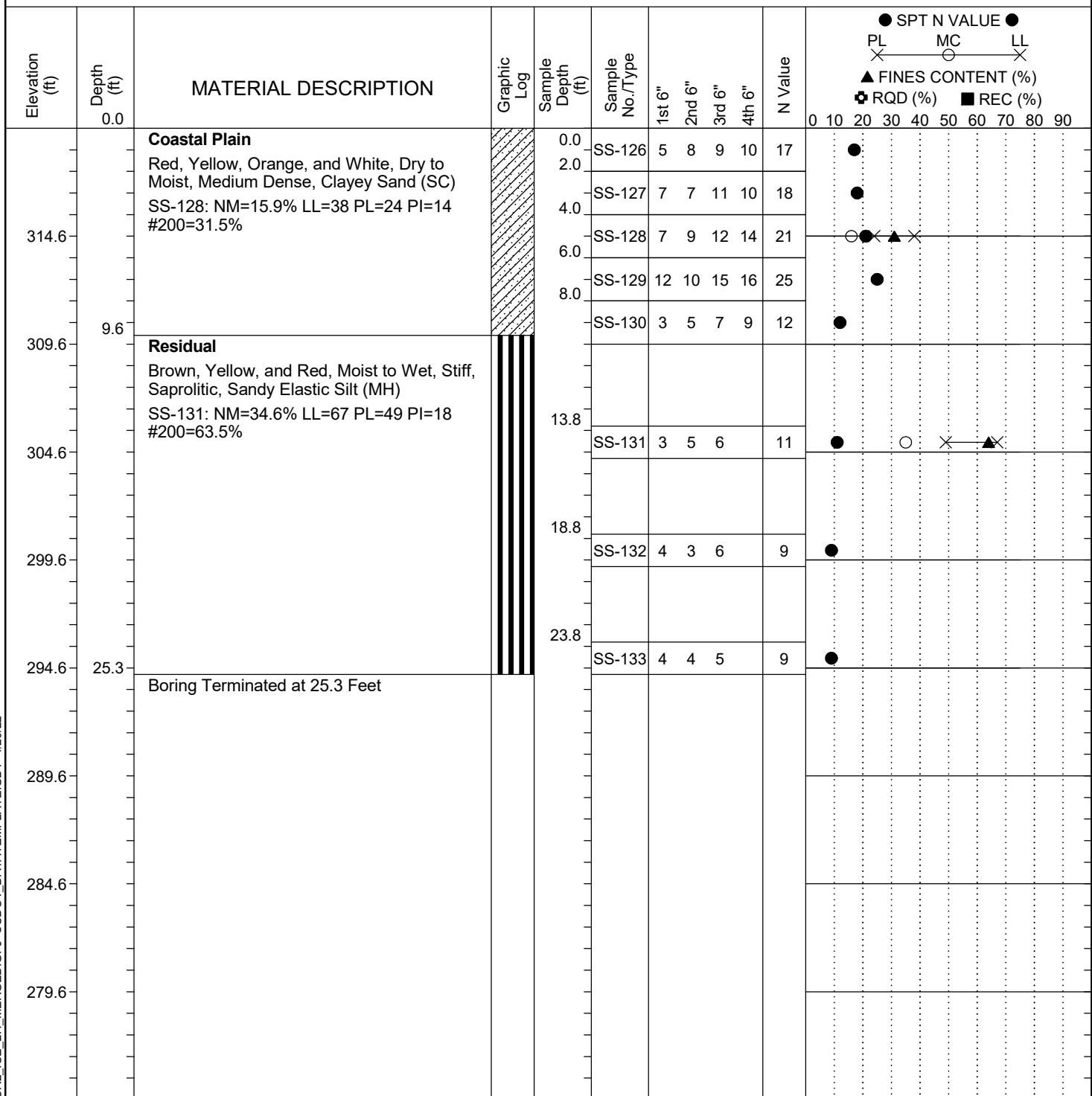
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-033
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	206+00	Offset:	145 RT
Elev.:	321.1 ft	Latitude:	34.03941445	Longitude:	-81.09260839
Total Depth:	40.1 ft	Soil Depth:	40.1 ft	Date Started:	2/16/2022
Core Depth:	N/A ft	Date Completed:	2/16/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	N/A	24HR Dry


LEGEND

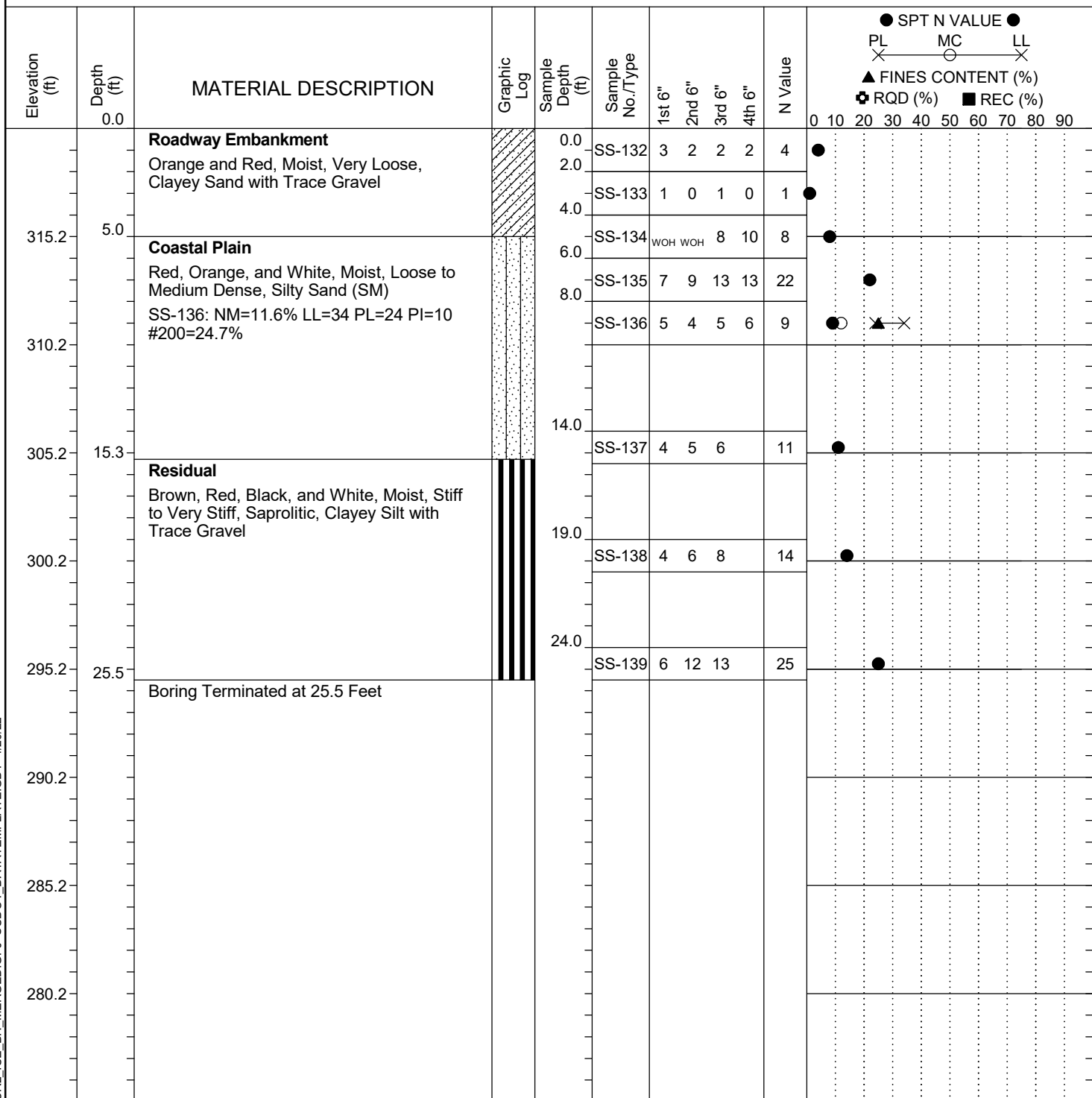
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719				County:	Richland			Boring No.:	G-034	
Site Description:	Carolina Crossroads Phase 2								Route:	I-20	
Eng./Geo.:	C. Stephens		Boring Location:	207+00		Offset:	140 RT		Alignment:	I20CL	
Elev.:	319.6 ft		Latitude:	34.03955018		Longitude:	-81.09232085		Date Started:	2/17/2022	
Total Depth:	25.3 ft		Soil Depth:	25.3 ft		Core Depth:	N/A ft		Date Completed:	2/17/2022	
Bore Hole Diameter (in):	2.25		Sampler Configuration			Liner Required:	Y (N)		Liner Used:	Y (N)	
Drill Machine:	D-50 #439		Drill Method:	RW		Hammer Type:	Automatic		Energy Ratio:	90.8%	
Core Size:	N/A		Driller:	R. Cassell		Groundwater:	TOB	12 ft		24HR	Dry


LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:		P039719			County:		Richland		Boring No.:		G-035				
Site Description:			Carolina Crossroads Phase 2							Route:		I-20			
Eng./Geo.:		C. Stephens		Boring Location:		207+00		Offset:		160 RT		Alignment:		I20CL	
Elev.:		320.2 ft		Latitude:		34.03950107		Longitude:		-81.09229119		Date Started:		2/17/2022	
Total Depth:		25.5 ft		Soil Depth:		25.5 ft		Core Depth:		N/A ft		Date Completed:		2/17/2022	
Bore Hole Diameter (in):			2.25		Sampler Configuration			Liner Required:		Y (N)		Liner Used:		Y (N)	
Drill Machine:		D-50 #439		Drill Method:		RW		Hammer Type:		Automatic		Energy Ratio:		90.8%	
Core Size:		N/A		Driller:		R. Cassell		Groundwater:		TOB 7.1 ft		24HR		Dry	



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

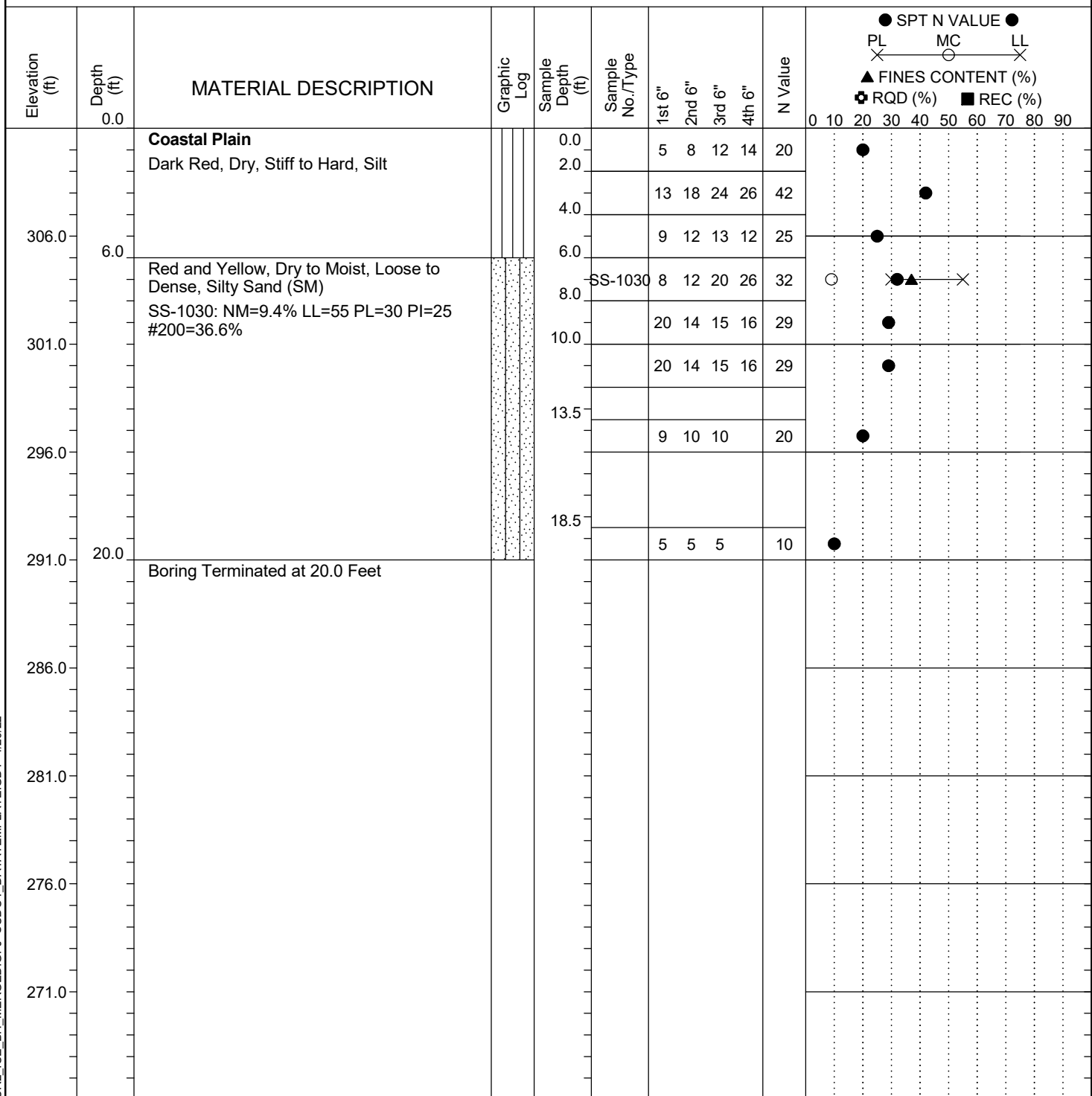
Project ID:	P039719	County:	Richland	Boring No.:	G-037
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	207+95	Offset:	127 RT
Elev.:	314.7 ft	Latitude:	34.03969938	Longitude:	-81.09205992
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #071	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				24HR	Dry

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	● SPT N VALUE ● PL X MC X LL X ▲ FINES CONTENT (%) + RQD (%) ■ REC (%)
	0.0										0 10 20 30 40 50 60 70 80 90
		Coastal Plain		0.0		3	4	8	9	12	
		Red and Yellow, Dry to Moist, Loose to Medium Dense, Clayey Sand (SC)		2.0							
		SS-1045: NM=10.3% LL=35 PL=23 PI=21 #200=27.7%		4.0		9	9	10	8	19	
309.7				6.0		9	8	8	6	16	
				8.0	SS-1045	8	6	7	6	13	
304.7				10.0		7	6	6	6	12	
						5	5	5	4	10	
299.7				13.5							
						4	4	4		8	
				18.5							
294.7						4	3	3		6	
				23.5							
289.7	25.0	Boring Terminated at 25.0 Feet				4	4	7		11	
284.7											
279.7											
274.7											

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

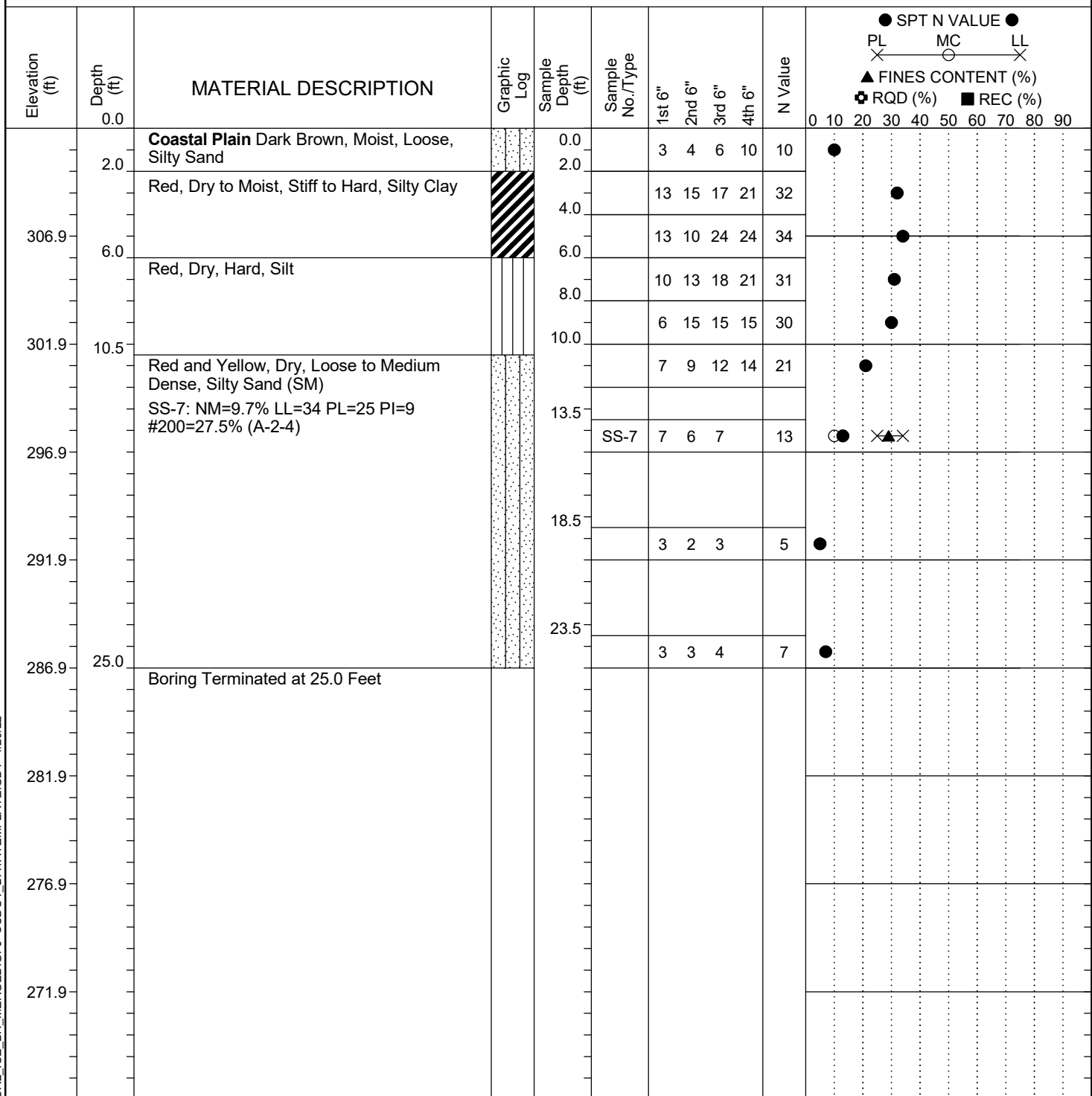
Project ID: P039719				County: Richland		Boring No.: G-038		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: O. Daynes		Boring Location: 208+86		Offset: 95 RT		Alignment: I20CL		
Elev.: 311.0 ft		Latitude: 34.0398903		Longitude: -81.09183896		Date Started: 2/10/2022		
Total Depth: 20 ft		Soil Depth: 20 ft		Core Depth: N/A ft		Date Completed: 2/10/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31		Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%		
Core Size: N/A		Driller: A. Fowler		Groundwater: TOB Dry		24HR Dry		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

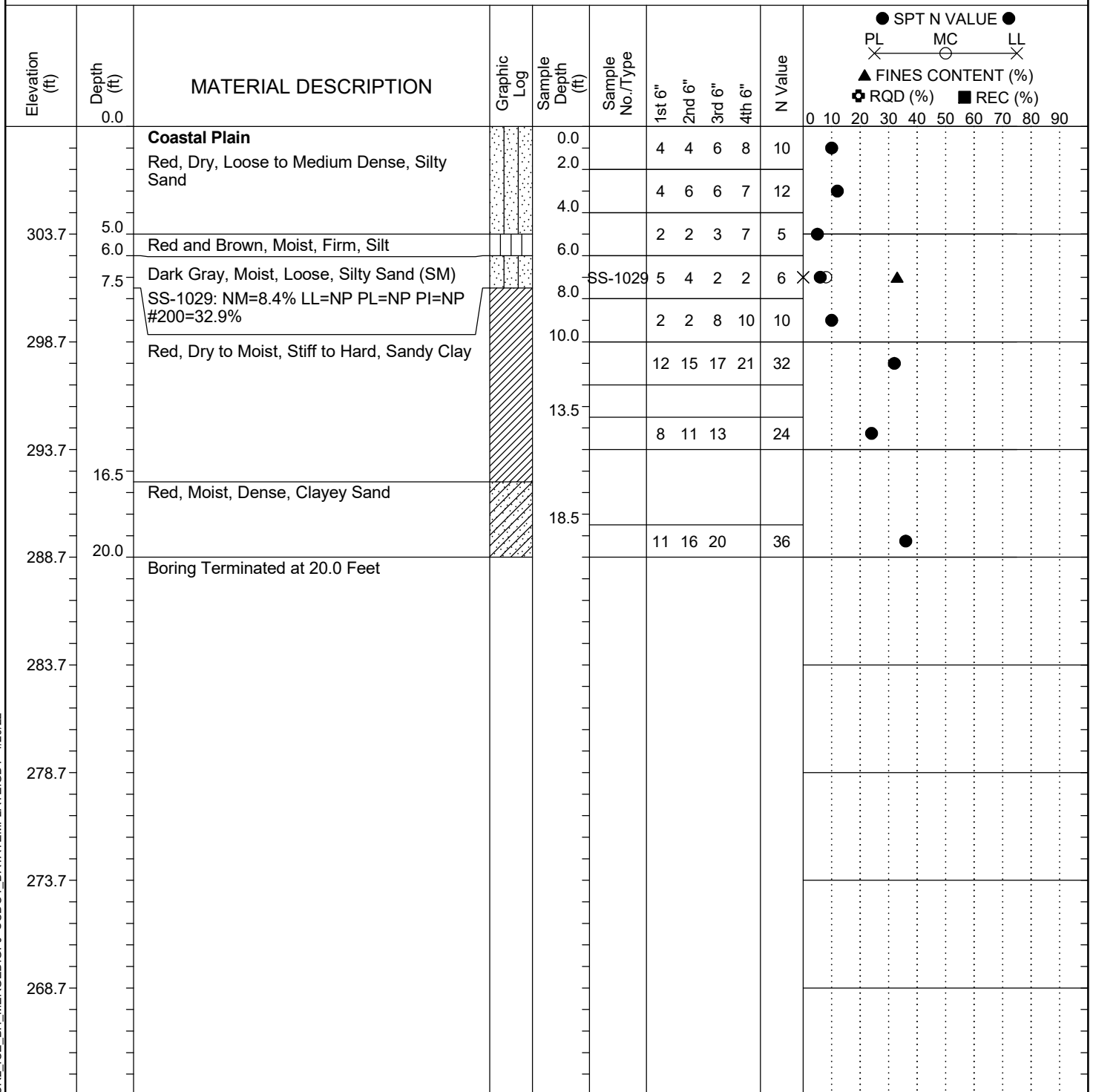
Project ID:	P039719	County:	Richland	Boring No.:	G-039
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	T. Park	Boring Location:	209+02	Offset:	166 RT
Elev.:	311.9 ft	Latitude:	34.03973572	Longitude:	-81.09168647
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				24HR	Dry



LEGEND

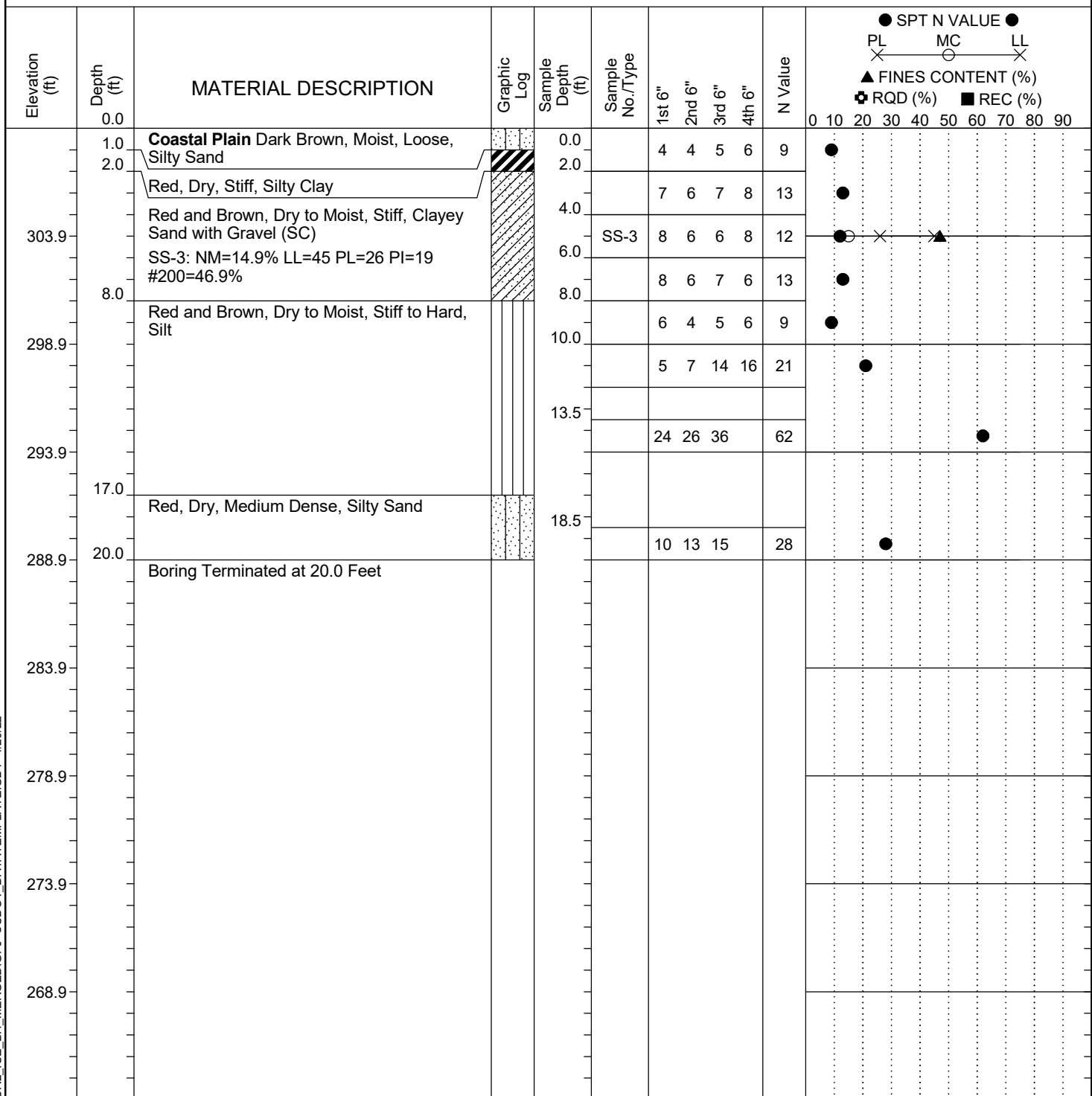
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID: P039719				County: Richland		Boring No.: G-040		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: O. Daynes		Boring Location: 209+93		Offset: 78 RT		Alignment: I20CL		
Elev.: 308.7 ft		Latitude: 34.04006414		Longitude: -81.09154856		Date Started: 2/10/2022		
Total Depth: 20 ft		Soil Depth: 20 ft		Core Depth: N/A ft		Date Completed: 2/10/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31		Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%		
Core Size: N/A		Driller: A. Fowler		Groundwater: TOB Dry		24HR Dry		


LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID: P039719				County: Richland		Boring No.: G-041					
Site Description:		Carolina Crossroads Phase 2					Route: I-20				
Eng./Geo.: T. Park		Boring Location:		209+96		Offset:	141 RT	Alignment:	I20CL		
Elev.:	308.9 ft	Latitude:	34.03991315	Longitude:	-81.09144629	Date Started:		2/22/2022			
Total Depth:		20 ft	Soil Depth:	20 ft	Core Depth:	N/A ft	Date Completed:		2/22/2022		
Bore Hole Diameter (in):		2.25	Sampler Configuration		Liner Required:		Y (N)	Liner Used:	Y (N)		
Drill Machine:		CME-45B #31	Drill Method:		HSA	Hammer Type:		Automatic	Energy Ratio:	86%	
Core Size:		N/A	Driller:	A. Fowler		Groundwater:		TOB	Dry	24HR	Dry



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

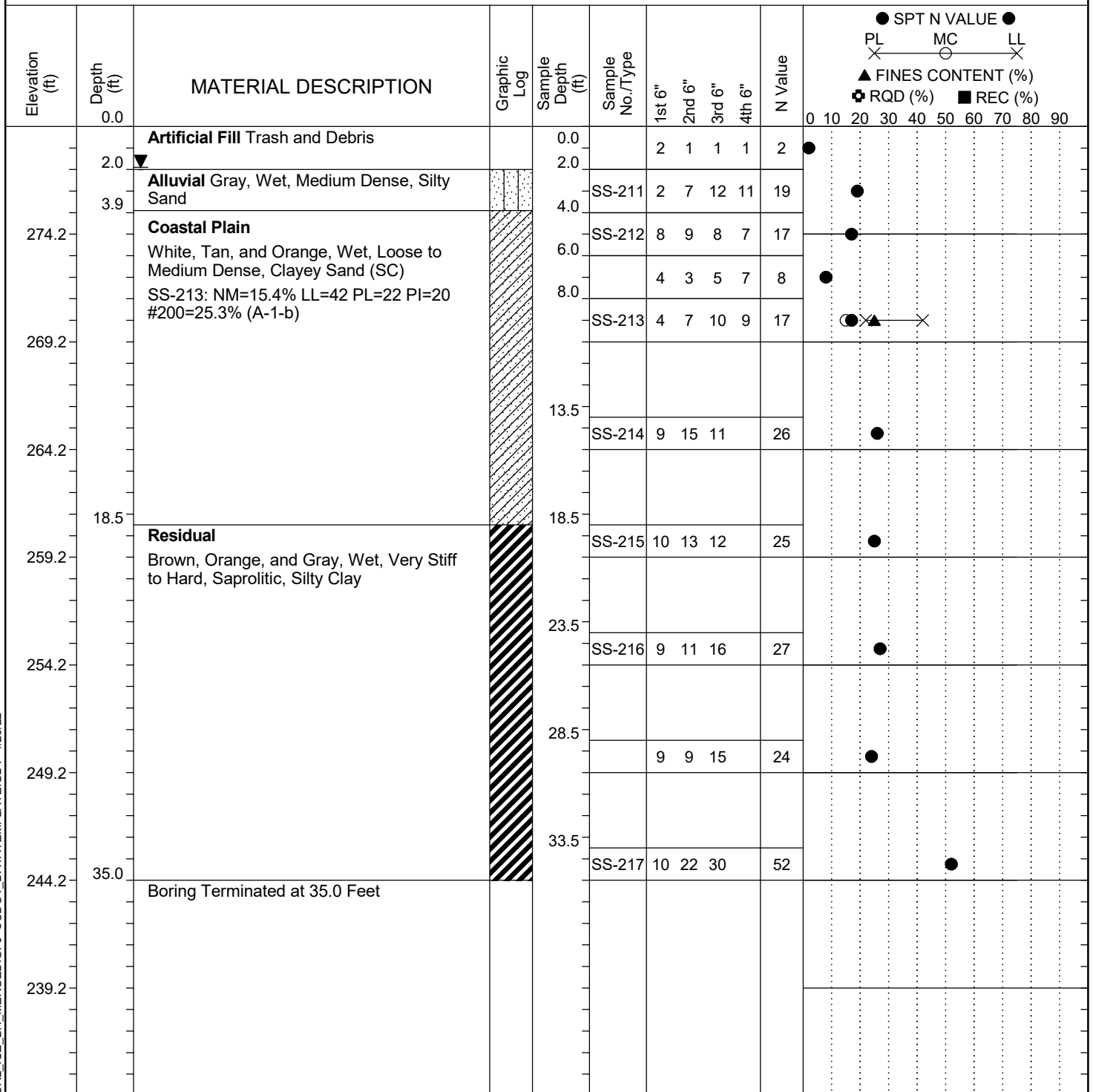
Project ID:	P039719	County:	Richland	Boring No.:	G-042
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	210+97	Offset:	101 RT
Elev.:	308.0 ft	Latitude:	34.04013606	Longitude:	-81.09120769
Total Depth:	20 ft	Soil Depth:	20 ft	Date Started:	2/22/2022
Core Depth:	N/A ft	Date Completed:	2/22/2022	Alignment:	I20CL
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	86%
Driller:	A. Fowler	Groundwater:	TOB	24HR	Dry

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	● SPT N VALUE ● PL MC LL X X X ▲ FINES CONTENT (%) + RQD (%) ■ REC (%)
	0.0	Coastal Plain									
		Yellow and Red, Dry, Stiff to Very Stiff, Silt		0.0		4	5	4	7	9	●
				2.0							
				4.0		6	8	9	10	17	●
	5.0	Red, Dry, Stiff, Lean Clay		6.0		3	4	5	3	9	●
	6.3	Red and Yellow, Moist, Firm to Stiff, Saprolitic, Sandy Silt (ML)		8.0		1	3	6	11	9	●
		SS-6: NM=18.9% LL=47 PL=31 PI=16 #200=61.5%		10.0		3	4	5	6	9	●
				13.5	SS-6	3	4	3	4	7	● ○ X X ▲
				18.5		3	4	5		9	●
	20.0	Boring Terminated at 20.0 Feet				4	5	6		11	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

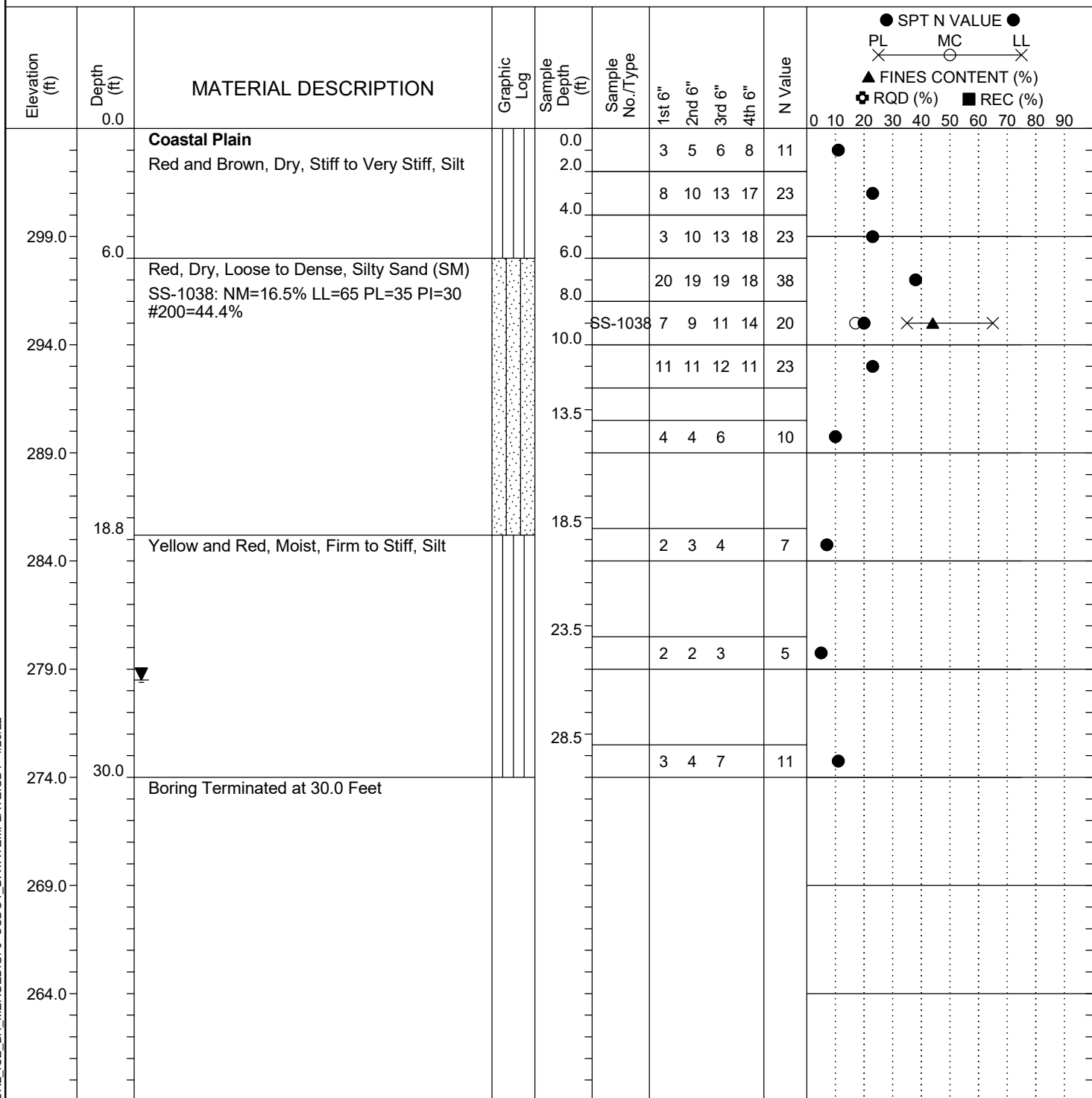
Project ID: P039719				County: Richland		Boring No.: G-043		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: C. McIlroy		Boring Location: 212+00			Offset: 240 RT		Alignment: I20CL	
Elev.: 279.2 ft		Latitude: 34.0399219		Longitude: -81.09069775		Date Started: 3/25/2022		
Total Depth: 35 ft		Soil Depth: 35 ft		Core Depth: N/A ft		Date Completed: 3/25/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration			Liner Required: Y (N)		Liner Used: Y (N)	
Drill Machine: D-50 #435		Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 84.4%		
Core Size: N/A		Driller: M. Morgan		Groundwater: TOB 2 ft		24HR 1.9 ft		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

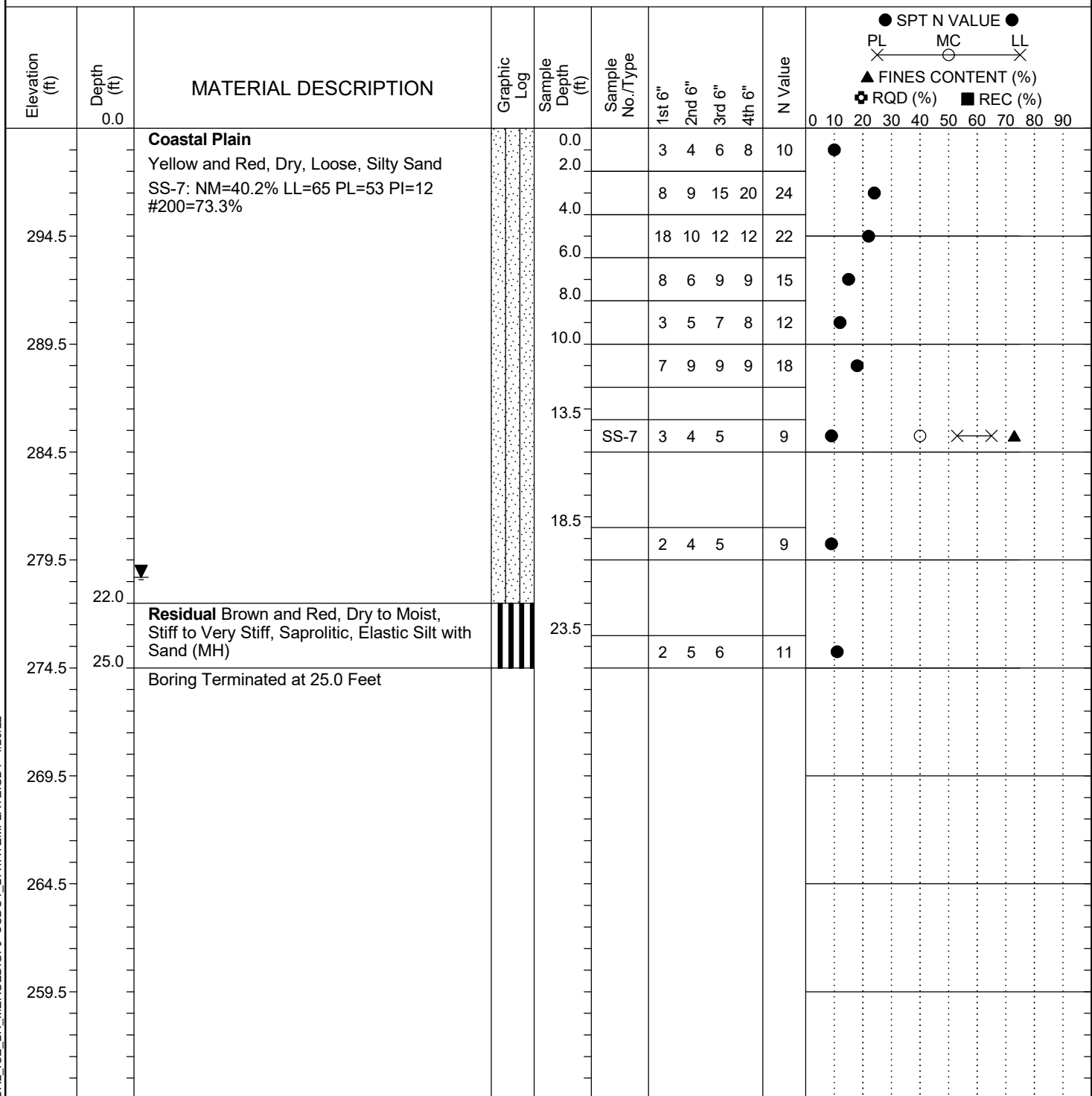
Project ID:	P039719	County:	Richland	Boring No.:	G-044
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	213+97	Offset:	135 RT
Elev.:	304.0 ft	Latitude:	34.04042292	Longitude:	-81.09027239
Total Depth:	30 ft	Soil Depth:	30 ft	Date Started:	2/9/2022
Core Depth:	N/A ft	Date Completed:	2/9/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #071	Drill Method:	HSA	Energy Ratio:	95.1%
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB 26.5 ft
				24HR	25.5 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

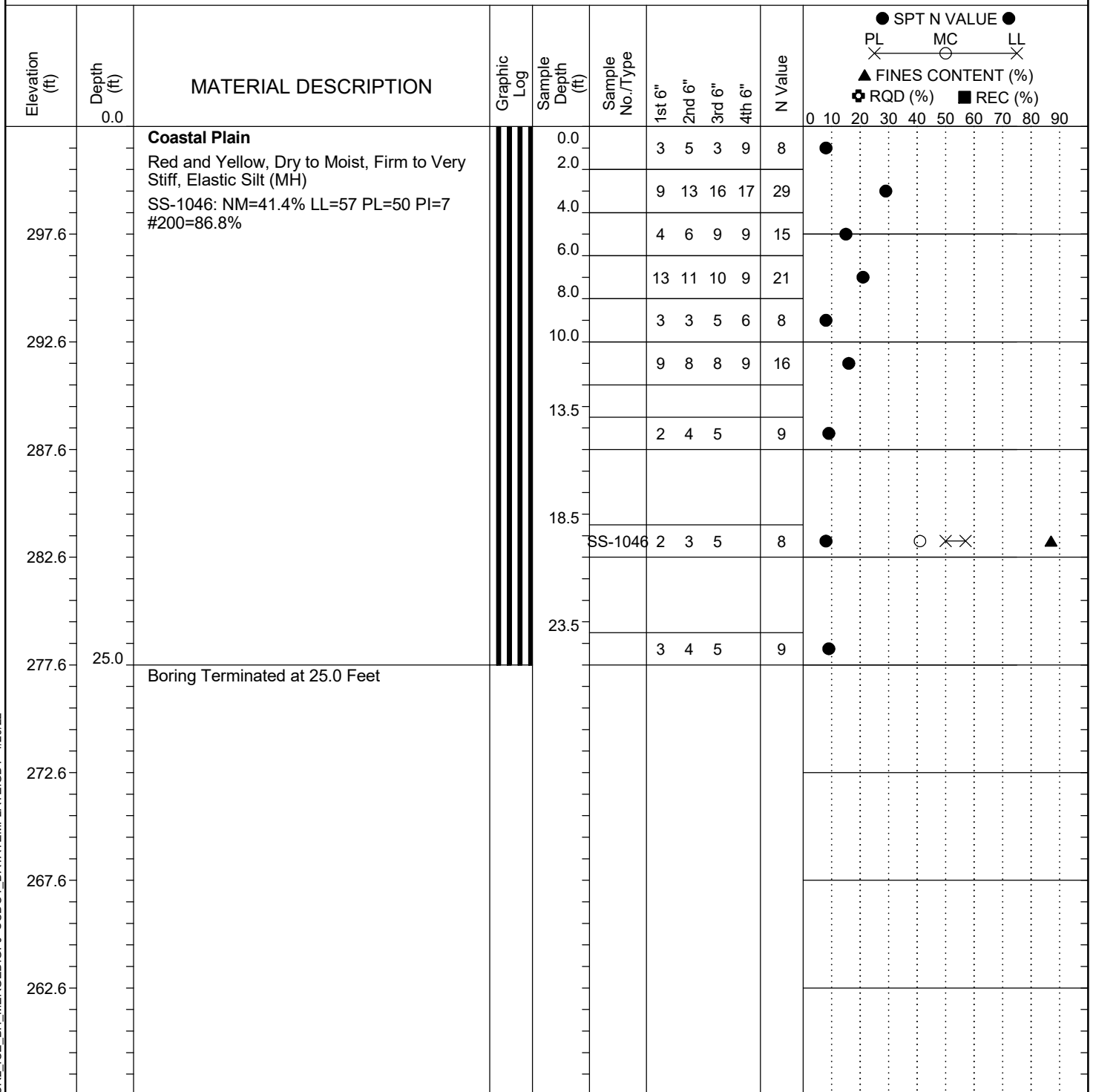
Project ID:	P039719	County:	Richland	Boring No.:	G-045
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	T. Park	Boring Location:	213+86	Offset:	113 RT
Elev.:	299.5 ft	Latitude:	34.04046336	Longitude:	-81.09033746
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				24HR	20.8 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

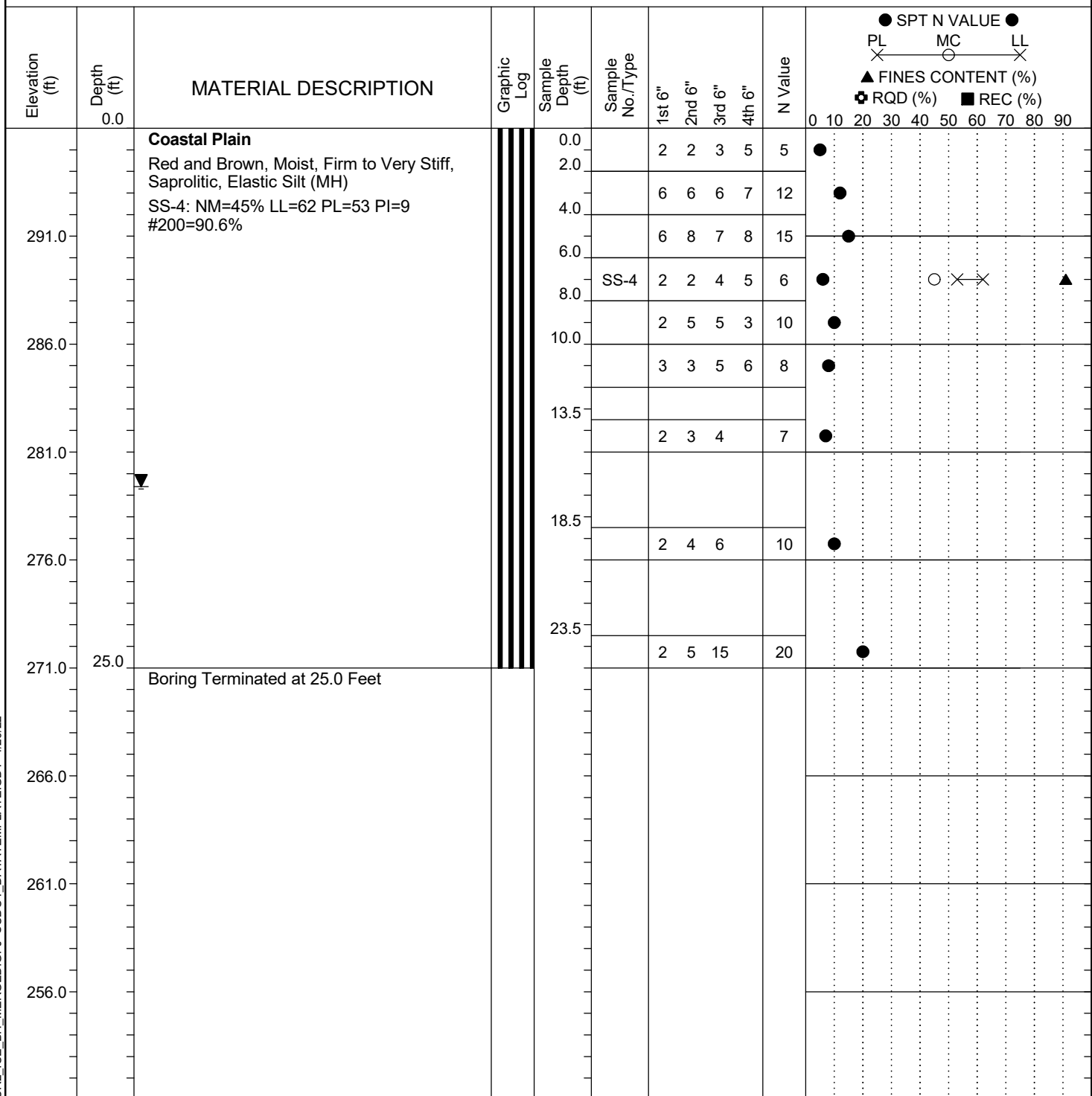
Project ID:	P039719	County:	Richland	Boring No.:	G-046
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	215+01	Offset:	126 RT
Elev.:	302.6 ft	Latitude:	34.04057341	Longitude:	-81.08997897
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #071	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				24HR	Dry



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

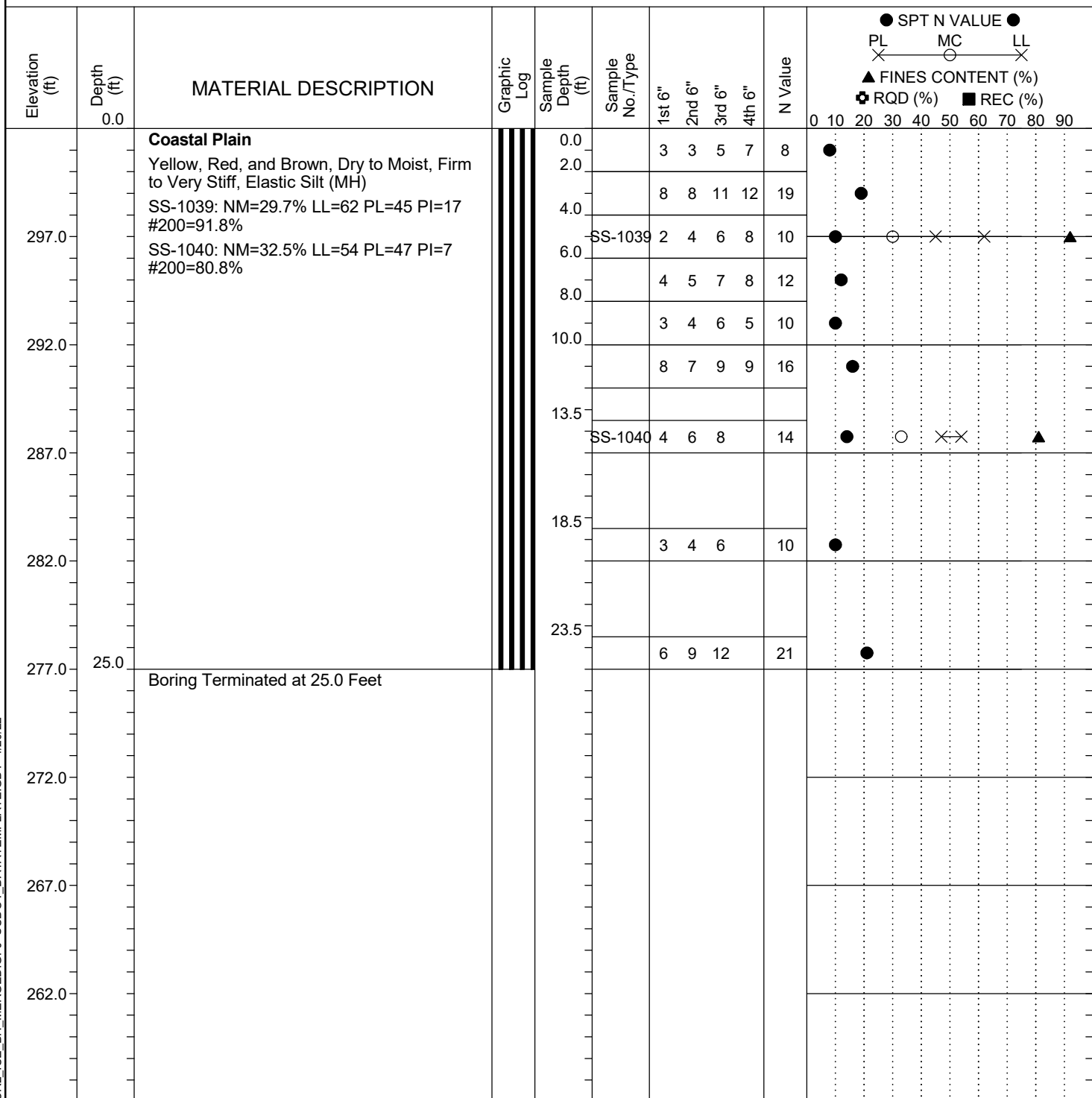
Project ID:	P039719	County:	Richland	Boring No.:	G-047
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	214+94	Offset:	93 RT
Elev.:	296.0 ft	Latitude:	34.0406458	Longitude:	-81.09004855
Total Depth:	25 ft	Soil Depth:	25 ft	Date Started:	2/22/2022
Core Depth:	N/A ft	Date Completed:	2/22/2022	Alignment:	I20CL
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	86%
Driller:	A. Fowler	Groundwater:	TOB	24HR	16.6 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

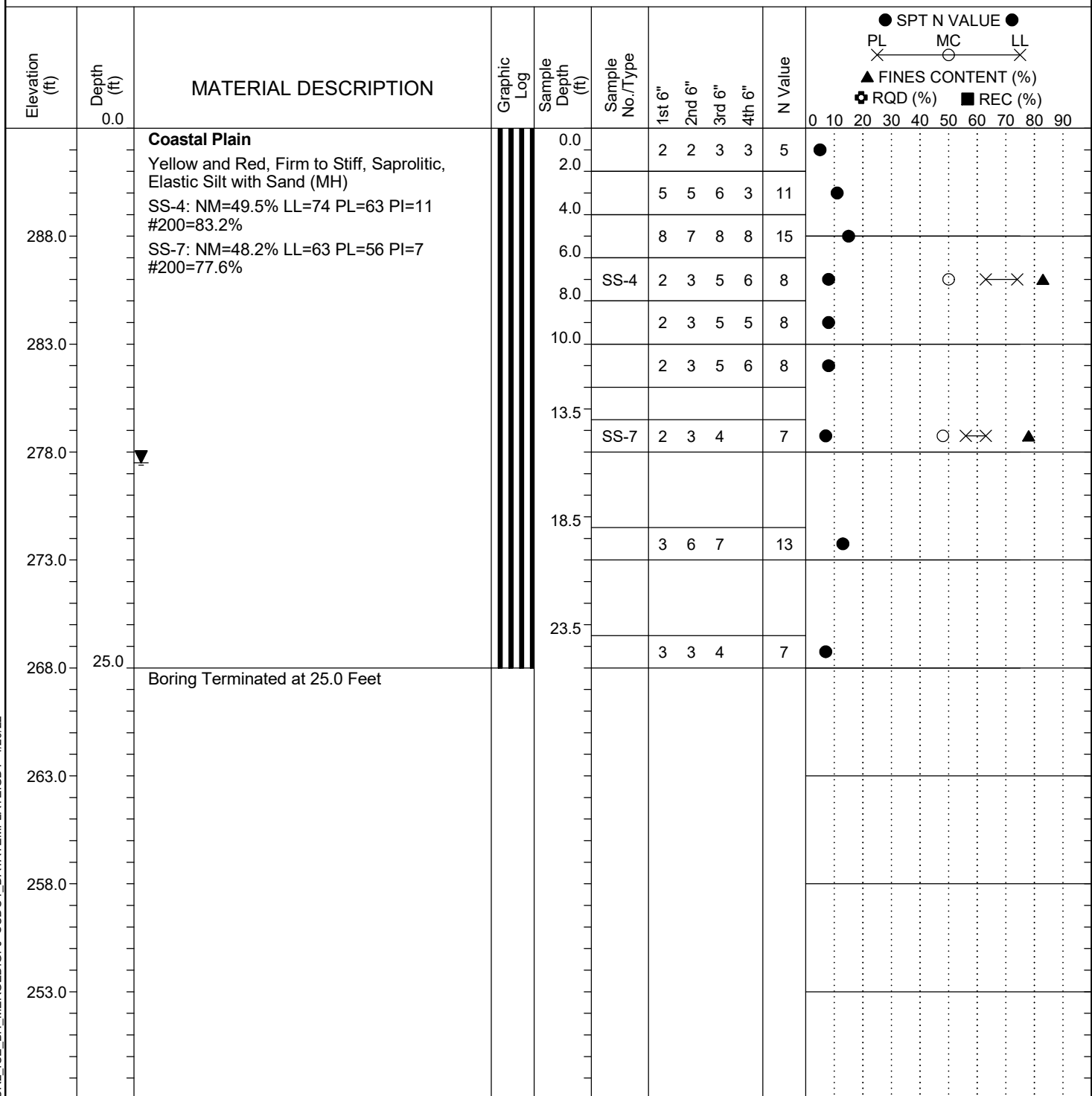
Project ID:	P039719	County:	Richland	Boring No.:	G-048
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	215+97	Offset:	130 RT
Elev.:	302.0 ft	Latitude:	34.0406821	Longitude:	-81.08968987
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Date Started:	2/9/2022				
Date Completed:	2/9/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #071	Drill Method:	HSA	Hammer Type:	Automatic
Energy Ratio:	95.1%				
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
24HR	Dry				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

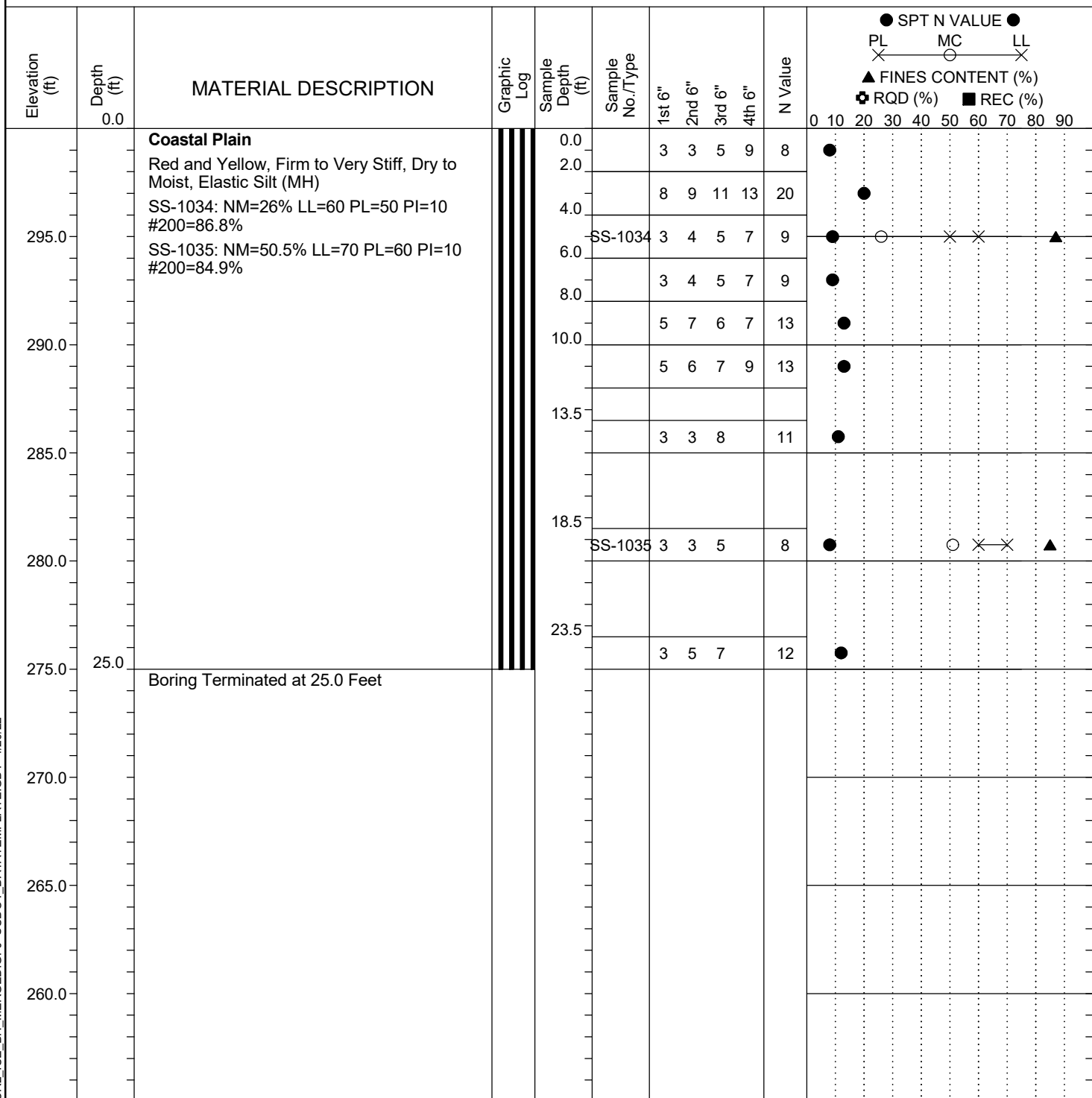
Project ID:	P039719	County:	Richland	Boring No.:	G-049
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	215+77	Offset:	92 RT
Elev.:	293.0 ft	Latitude:	34.04075072	Longitude:	-81.08980522
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB 19.9 ft
				24HR	15.5 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

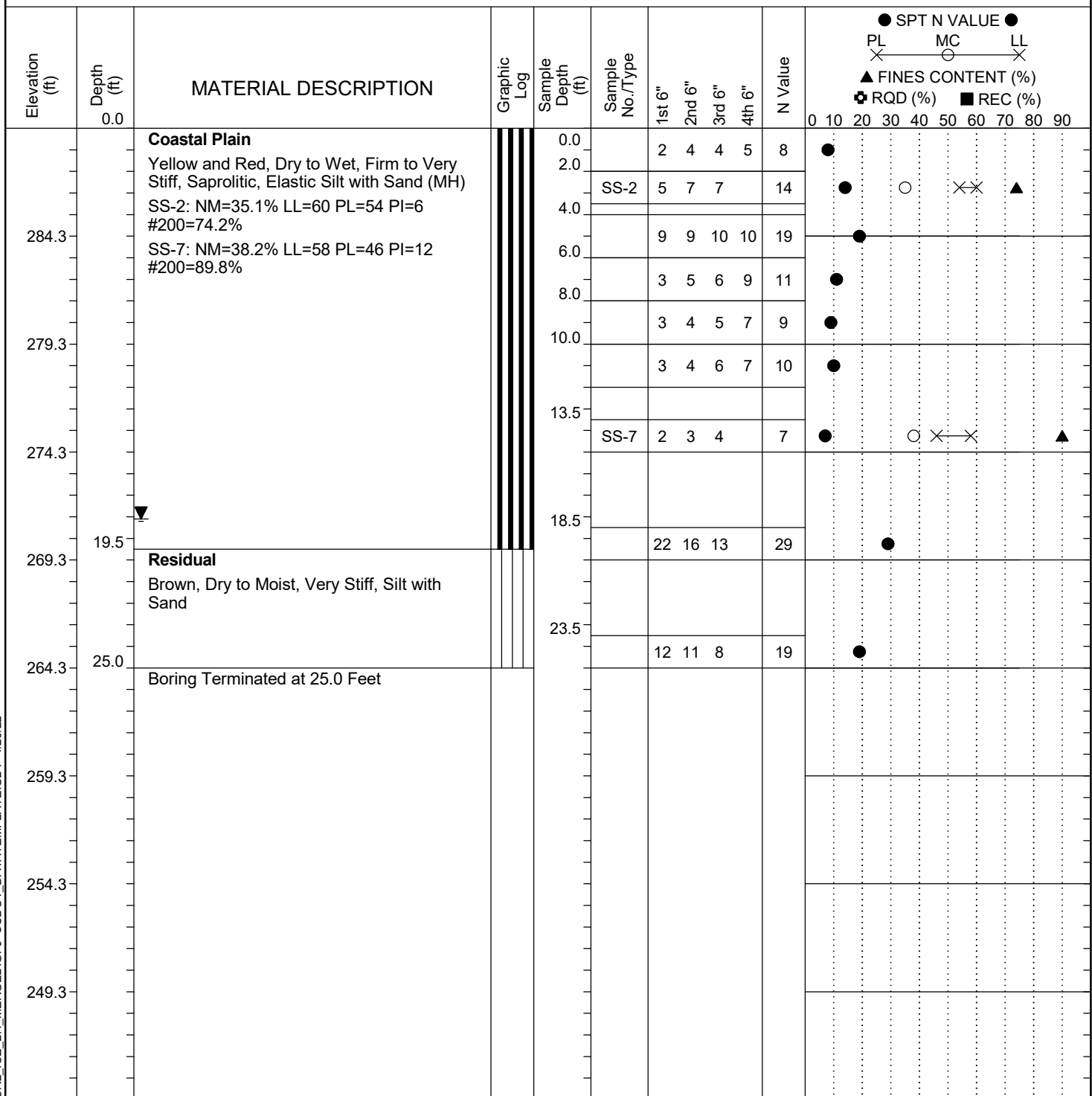
Project ID:			P039719			County:		Richland		Boring No.:		G-050			
Site Description:			Carolina Crossroads Phase 2								Route:		I-20		
Eng./Geo.:			T. Park		Boring Location:			216+95		Offset:		128 RT	Alignment:	I20CL	
Elev.:	300.0 ft		Latitude:	34.04080799		Longitude:		-81.08940377		Date Started:		2/9/2022			
Total Depth:		25 ft	Soil Depth:		25 ft		Core Depth:		N/A ft		Date Completed:		2/9/2022		
Bore Hole Diameter (in):			2.25		Sampler Configuration			Liner Required:		Y (N)		Liner Used:		Y (N)	
Drill Machine:		D-50 #071		Drill Method:		HSA		Hammer Type:		Automatic		Energy Ratio:		95.1%	
Core Size:		N/A		Driller:		A. Fowler		Groundwater:		TOB	Dry		24HR	Dry	



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

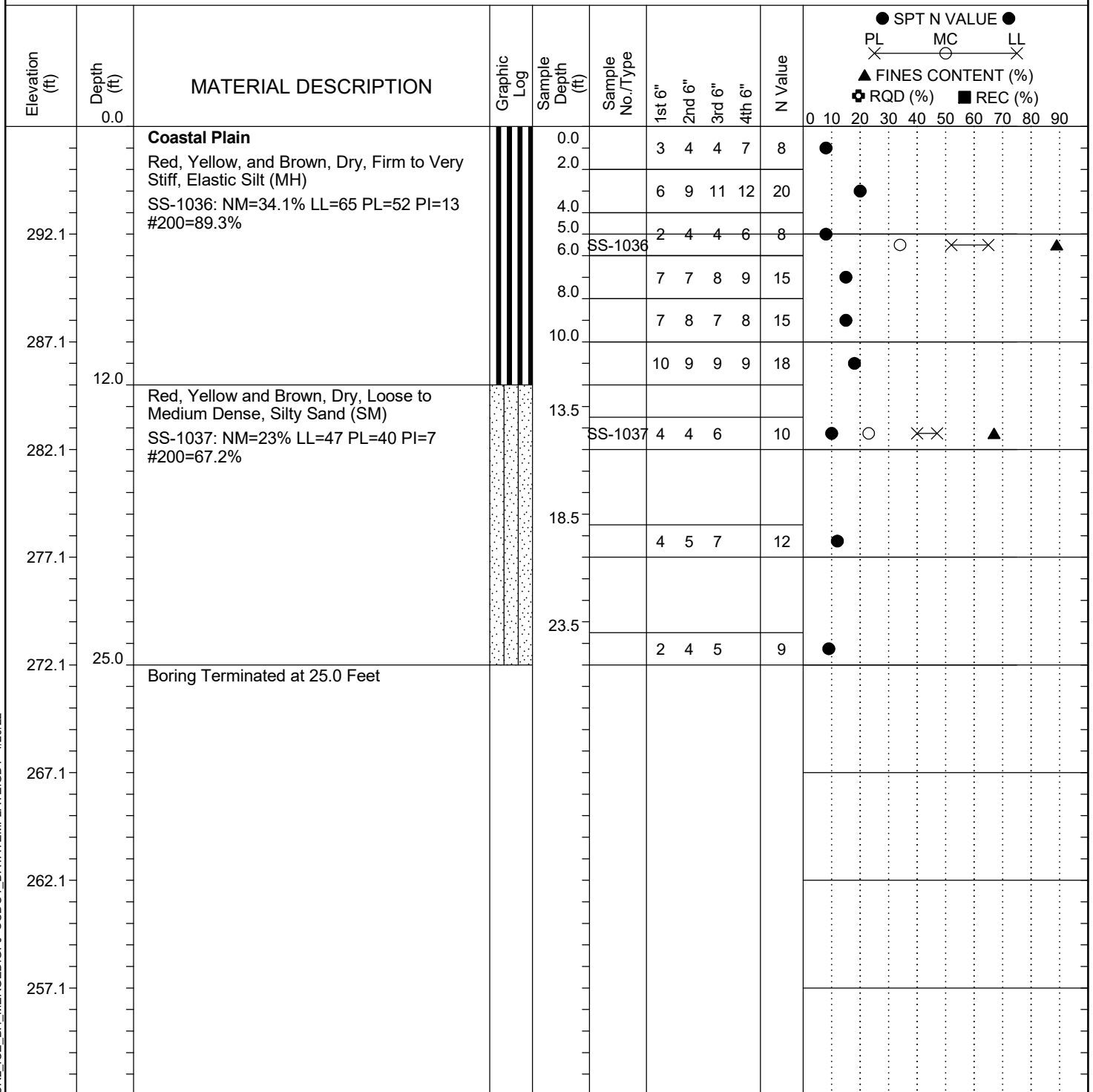
Project ID: P039719				County: Richland		Boring No.: G-051		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: O. Daynes		Boring Location: 216+80		Offset: 92 RT		Alignment: I20CL		
Elev.: 289.3 ft	Latitude: 34.04087787	Longitude: -81.0895014		Date Started: 2/22/2022				
Total Depth: 25 ft	Soil Depth: 25 ft	Core Depth: N/A ft		Date Completed: 2/22/2022				
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31	Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%			
Core Size: N/A	Driller: A. Fowler		Groundwater: TOB 19.7 ft		24HR: 18.1 ft			



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

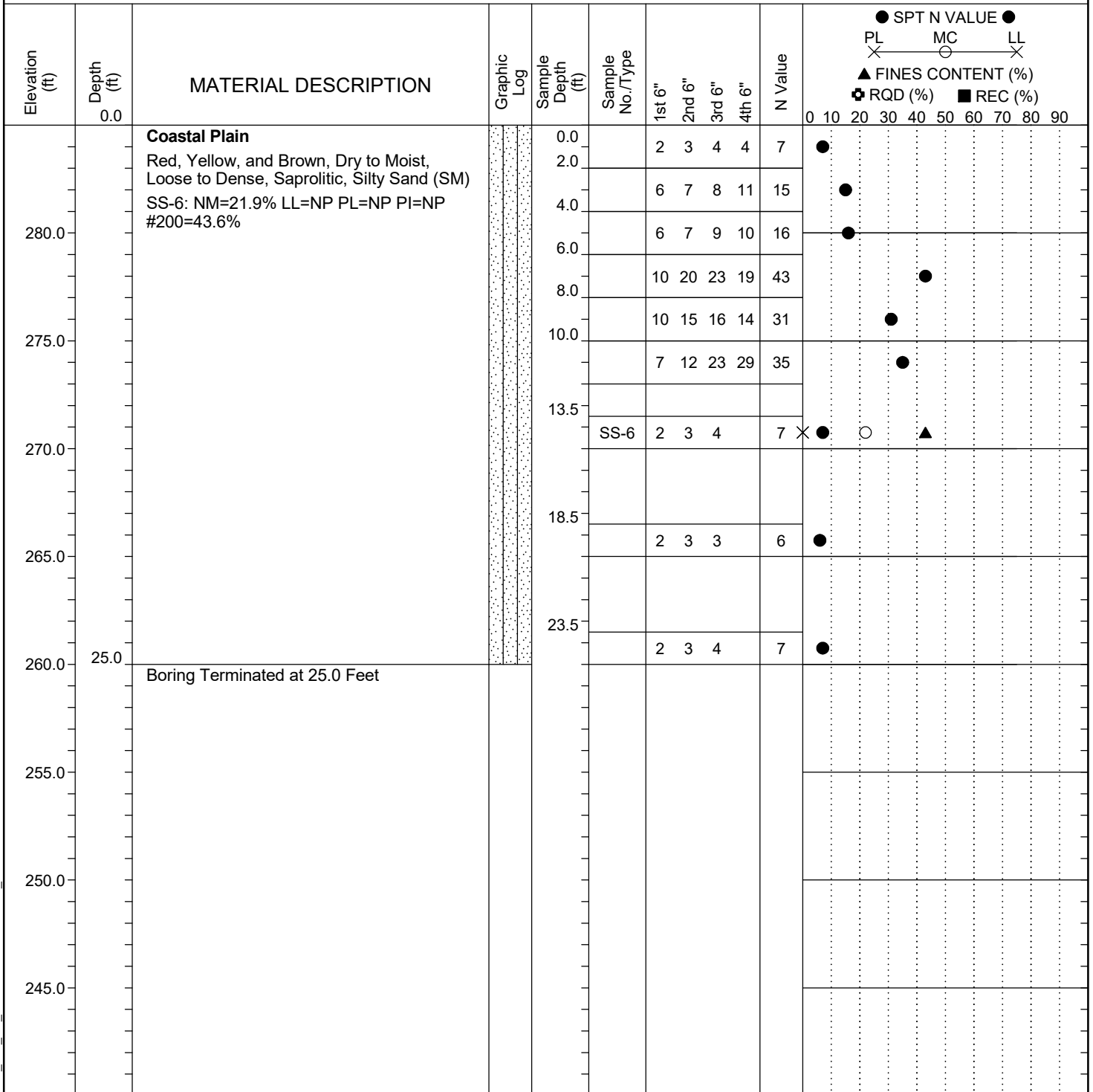
Project ID:	P039719	County:	Richland	Boring No.:	G-052
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	T. Park	Boring Location:	217+94	Offset:	129 RT
Elev.:	297.1 ft	Latitude:	34.04092775	Longitude:	-81.08911027
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Date Started:	2/9/2022				
Date Completed:	2/9/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #071	Drill Method:	HSA	Hammer Type:	Automatic
Energy Ratio:	95.1%				
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
24HR:	Dry				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

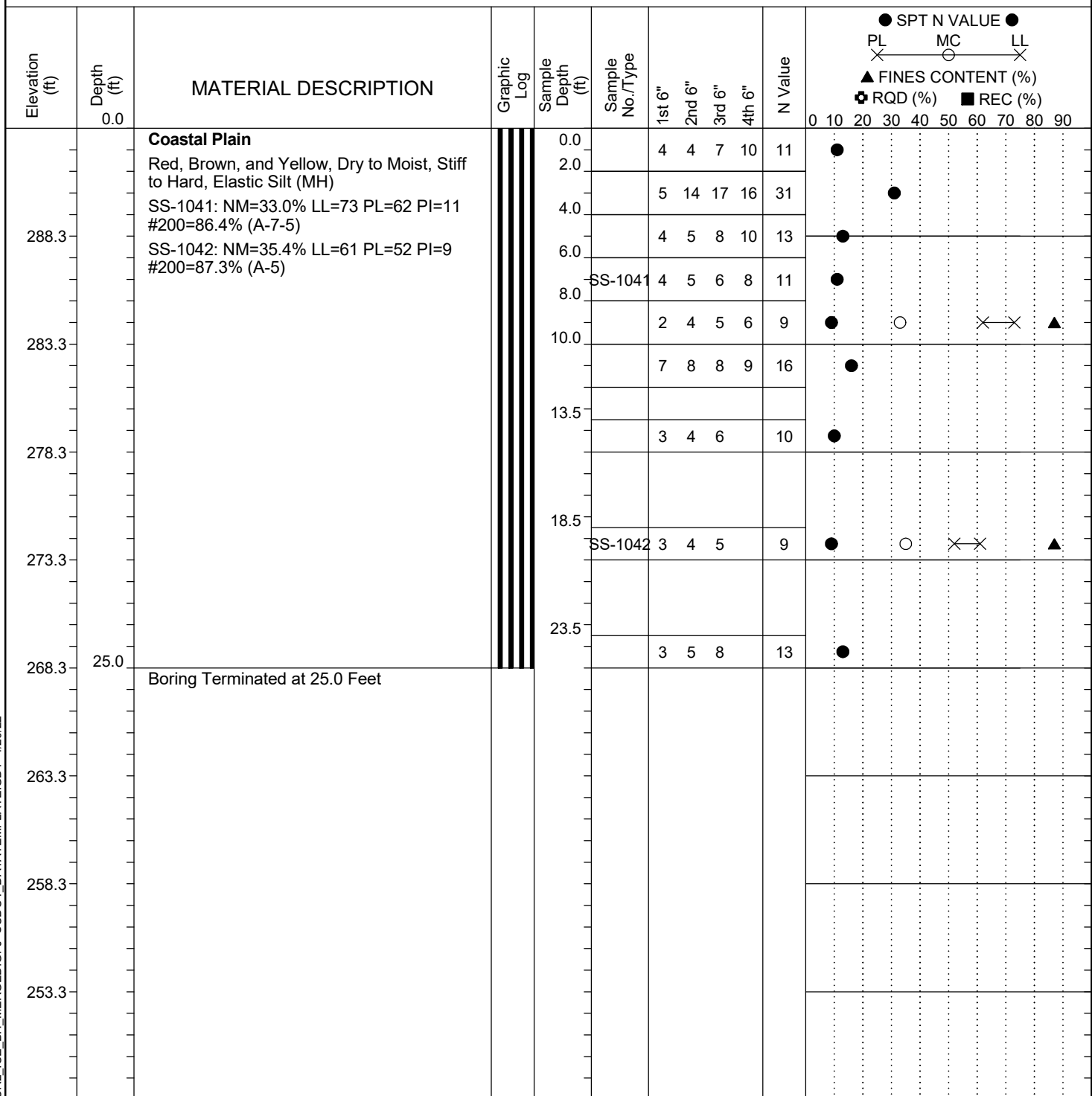
Project ID:	P039719	County:	Richland	Boring No.:	G-053
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	217+90	Offset:	89 RT
Elev.:	285.0 ft	Latitude:	34.04102103	Longitude:	-81.08918139
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				24HR	Dry



LEGEND

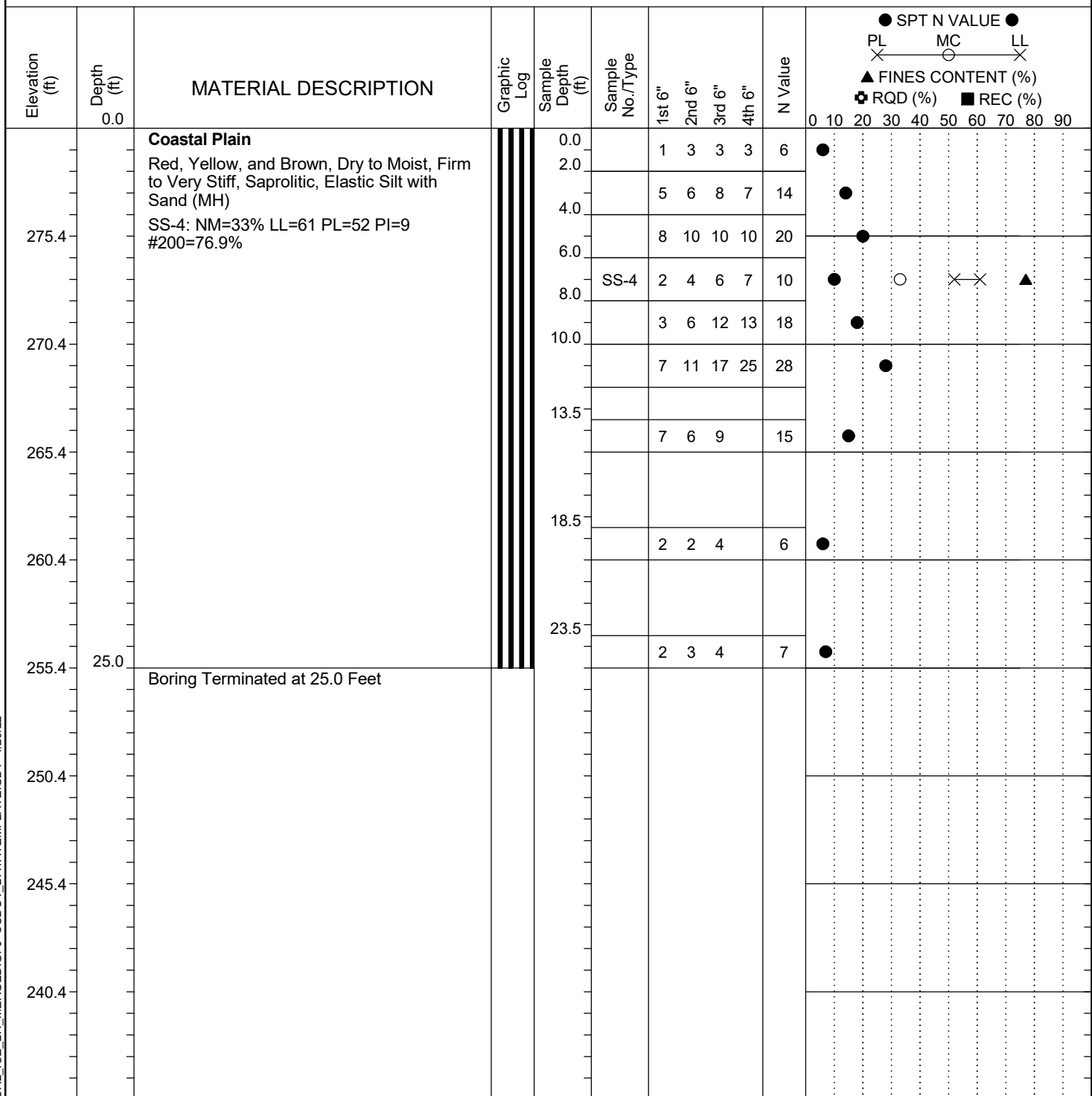
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-054
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	218+91	Offset:	127 RT
Elev.:	293.3 ft	Latitude:	34.0410524	Longitude:	-81.08882712
Total Depth:	25 ft	Soil Depth:	25 ft	Date Started:	2/8/2022
Core Depth:	N/A ft	Date Completed:	2/8/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #071	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Energy Ratio:	95.1%
		Groundwater:	TOB	Dry	24HR


LEGEND

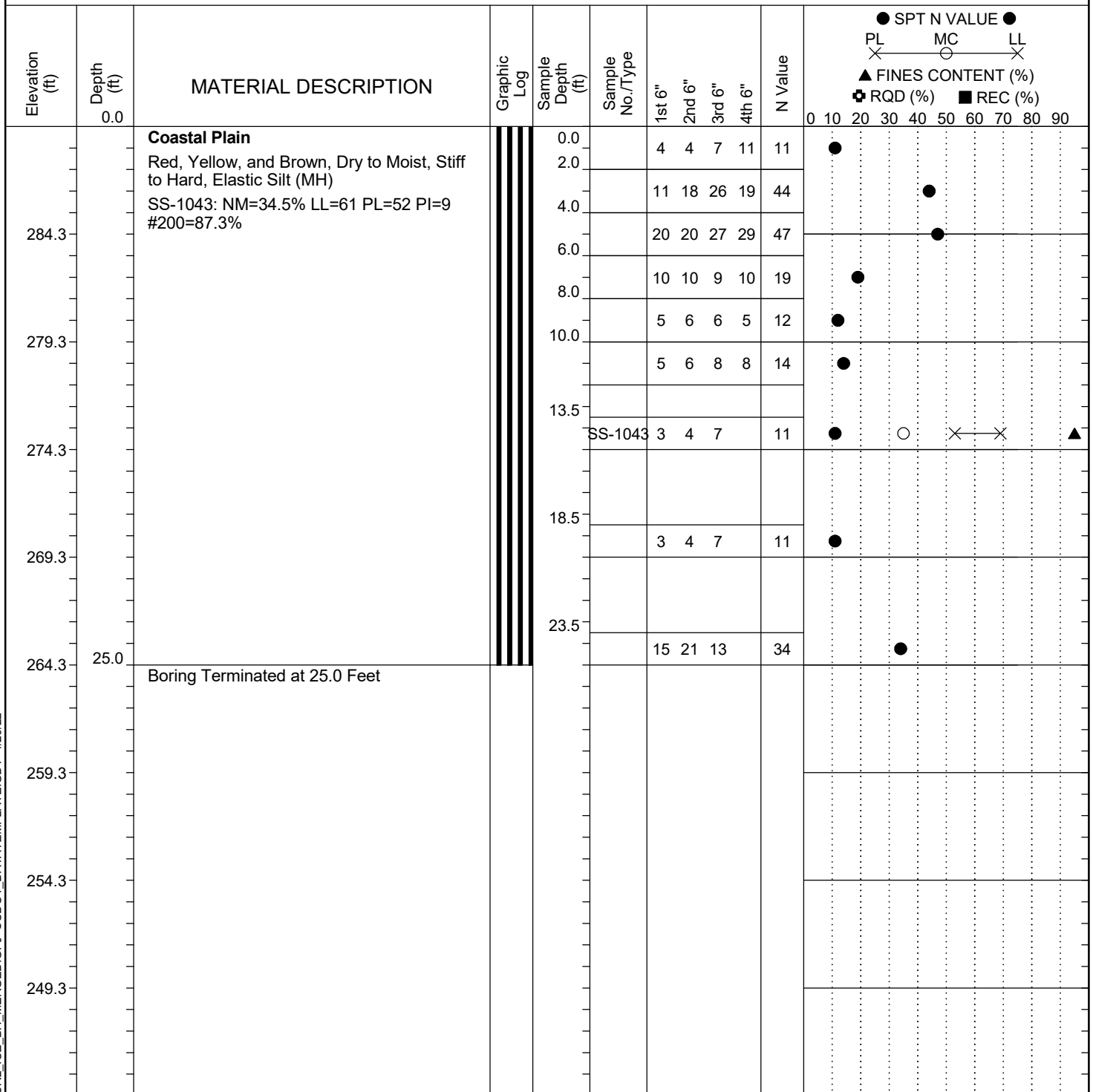
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-055
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	218+98	Offset:	88 RT
Elev.:	280.4 ft	Latitude:	34.04115681	Longitude:	-81.0888643
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				24HR	Dry


LEGEND

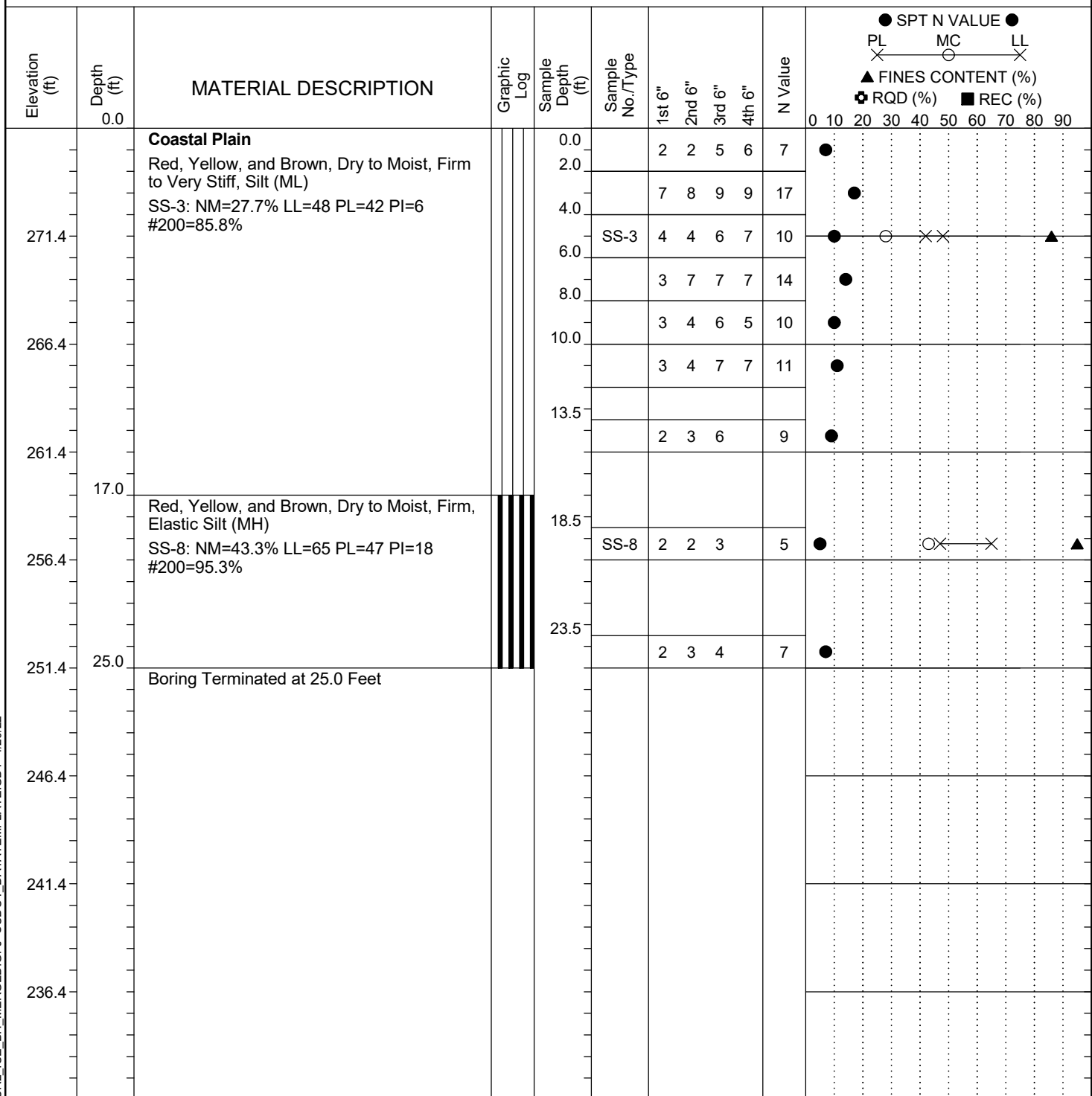
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-056
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	219+86	Offset:	128 RT
Elev.:	289.3 ft	Latitude:	34.04116722	Longitude:	-81.08854542
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #071	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				24HR	Dry


LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

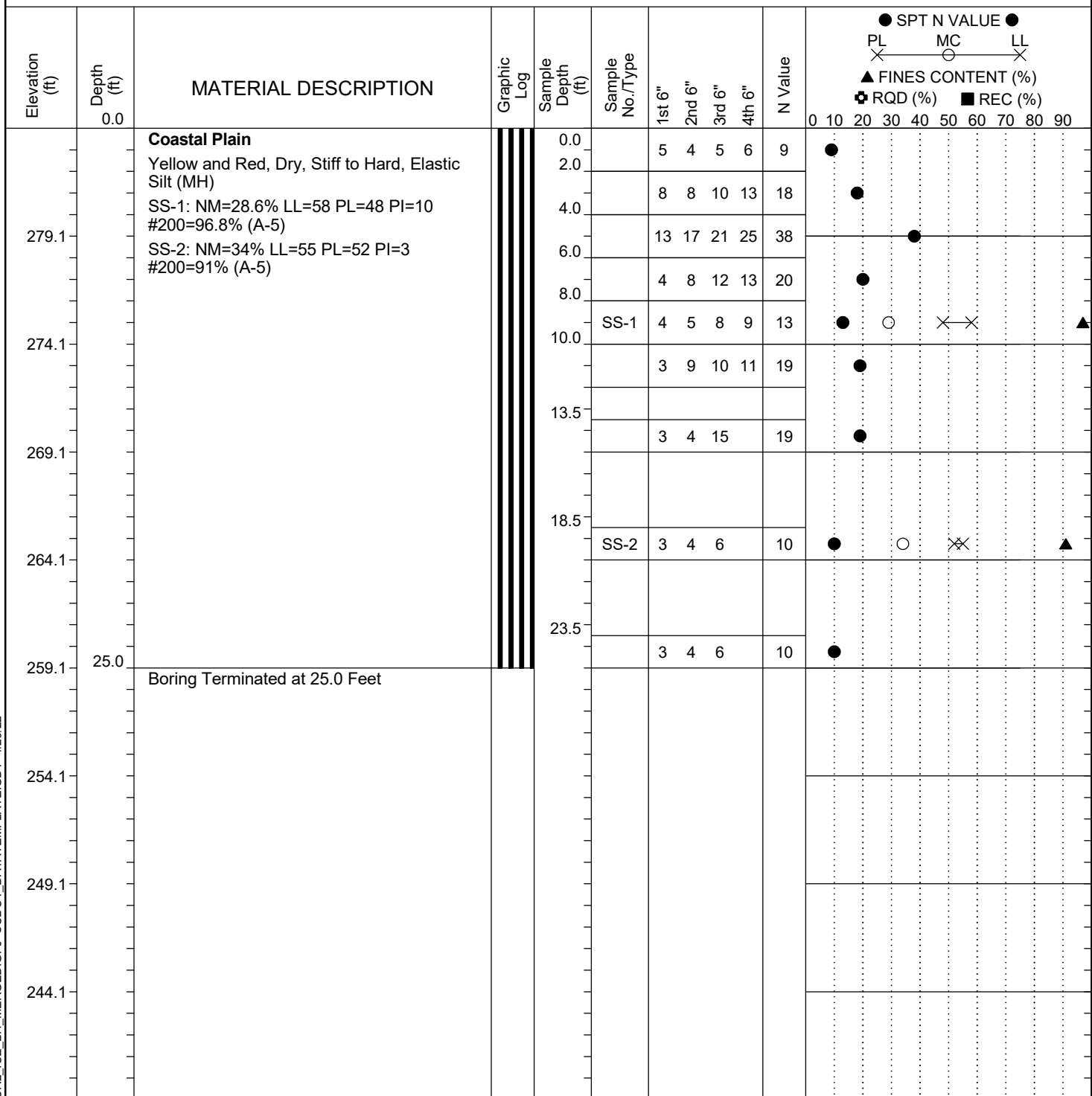
Project ID:	P039719	County:	Richland	Boring No.:	G-057
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	219+92	Offset:	88 RT
Elev.:	276.4 ft	Latitude:	34.04127285	Longitude:	-81.08858703
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				24HR	Dry



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

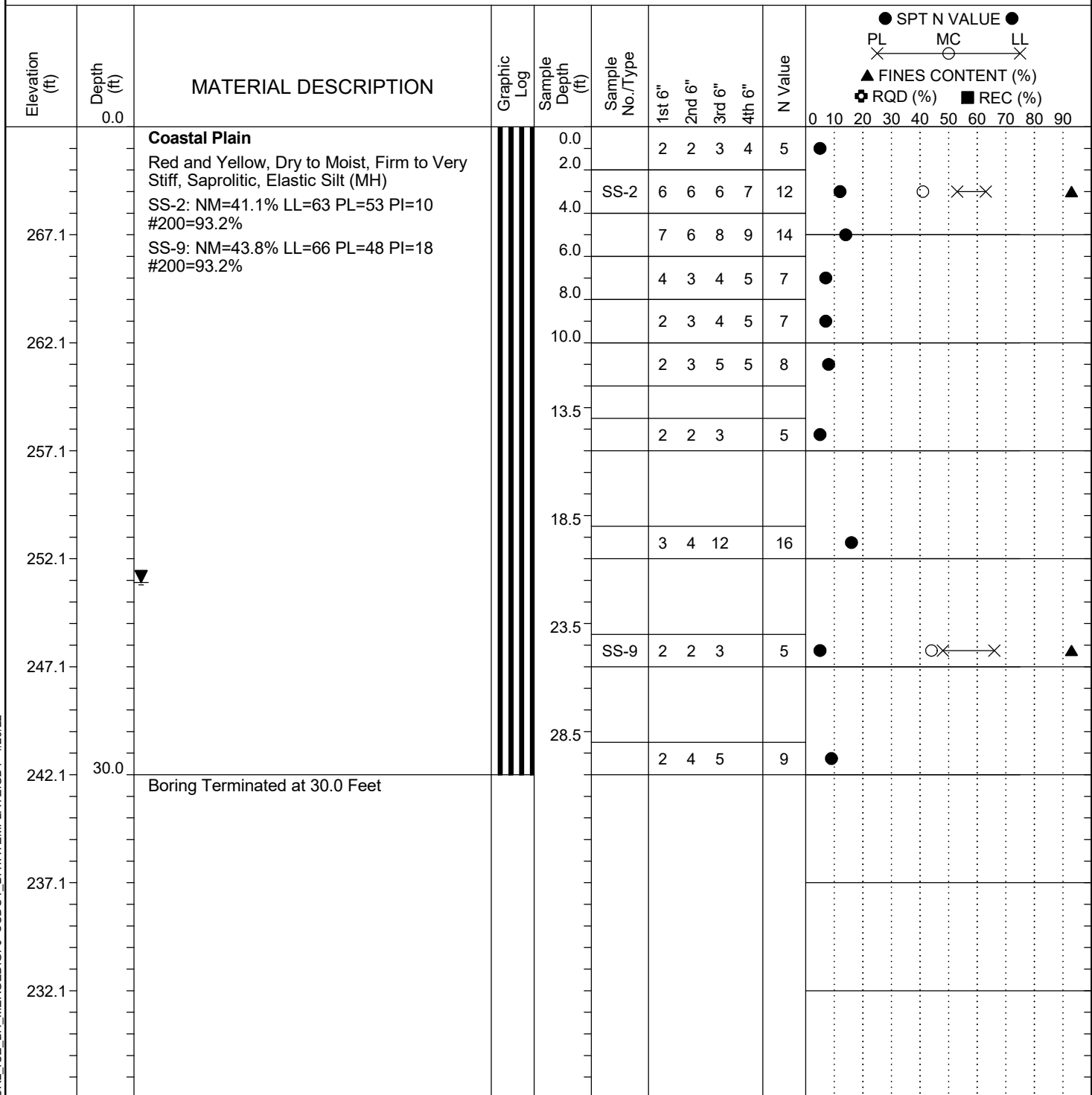
Project ID:	P039719	County:	Richland	Boring No.:	G-058
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	220+99	Offset:	128 RT
Elev.:	284.1 ft	Latitude:	34.04130672	Longitude:	-81.0882121
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Date Started:	2/8/2022				
Date Completed:	2/8/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #071	Drill Method:	HSA	Hammer Type:	Automatic
Energy Ratio:	95.1%				
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
24HR	Dry				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

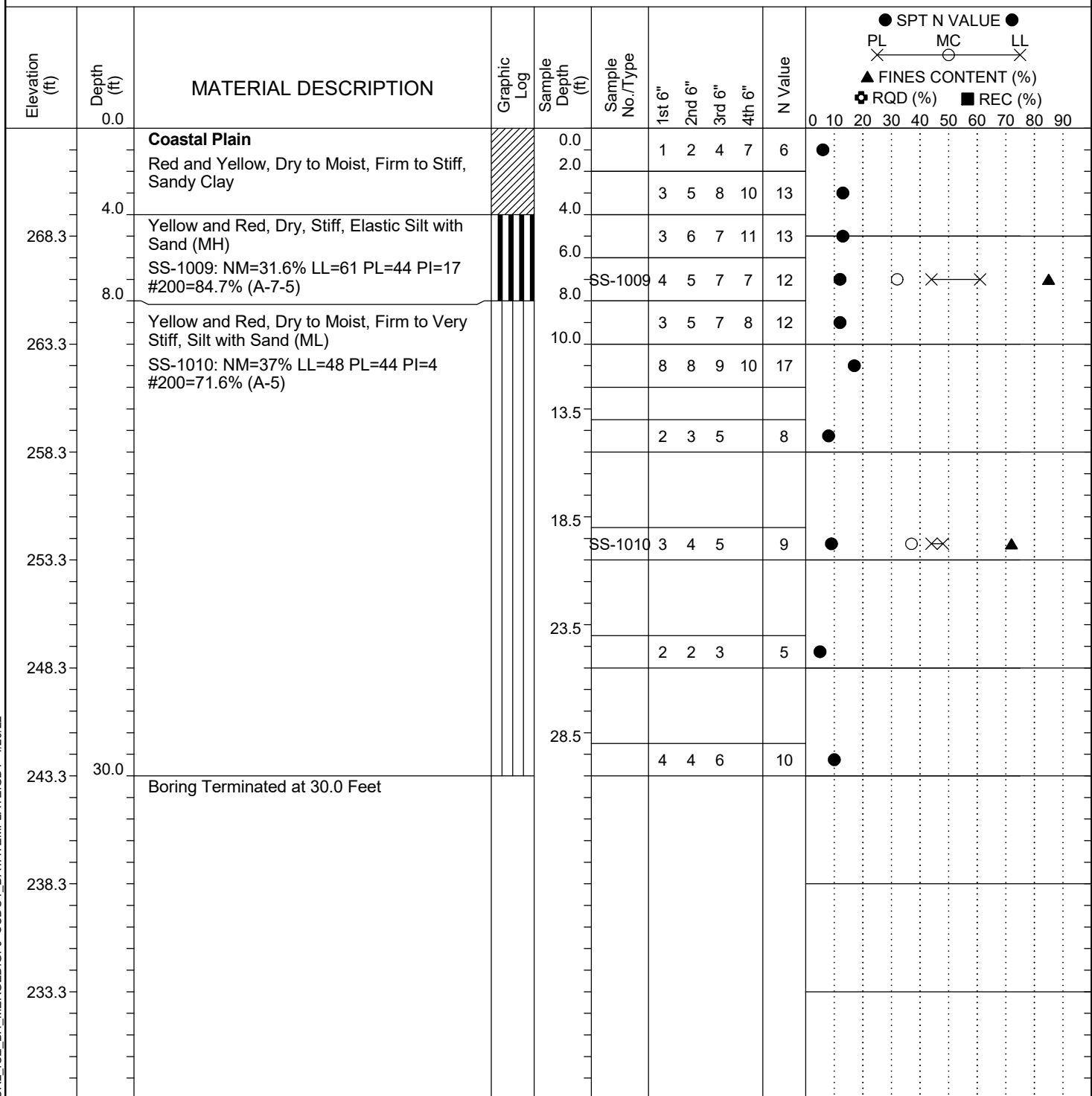
Project ID: P039719				County: Richland		Boring No.: G-059		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: O. Daynes		Boring Location: 220+93		Offset: 84 RT		Alignment: I20CL		
Elev.: 272.1 ft		Latitude: 34.04140735		Longitude: -81.08829505		Date Started: 2/23/2022		
Total Depth: 30 ft		Soil Depth: 30 ft		Core Depth: N/A ft		Date Completed: 2/23/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31		Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%		
Core Size: N/A		Driller: A. Fowler		Groundwater: TOB Dry		24HR 21.1 ft		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

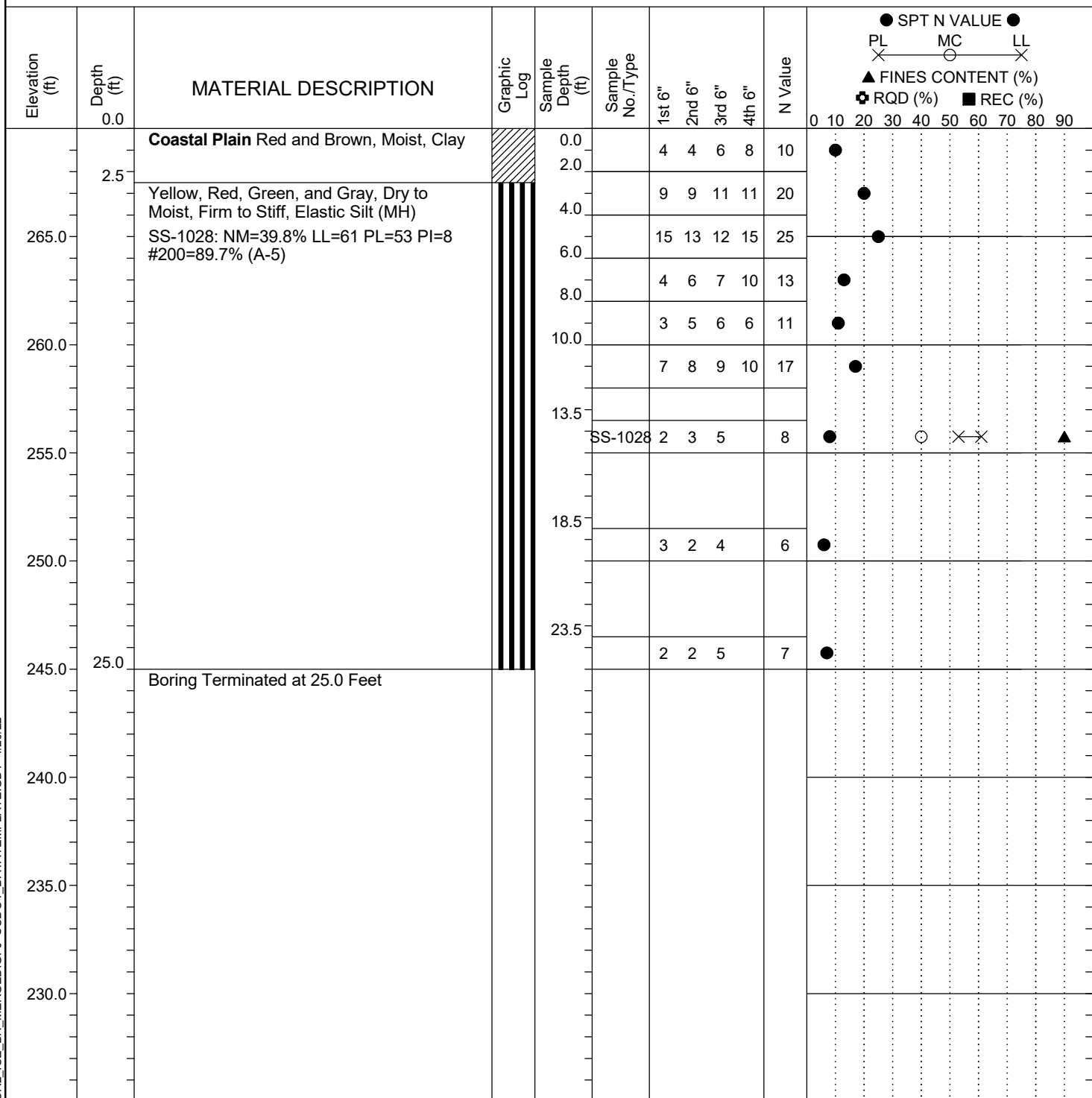
Project ID:	P039719	County:	Richland	Boring No.:	G-060
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	T. Park	Boring Location:	222+00	Offset:	140 LT
Elev.:	273.3 ft	Latitude:	34.04208948	Longitude:	-81.08831159
Total Depth:	30 ft	Soil Depth:	30 ft	Date Started:	2/17/2022
Core Depth:	N/A ft	Date Completed:	2/17/2022	Alignment:	I20CL
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	86%
Driller:	A. Fowler	Groundwater:	TOB	24HR	Dry



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

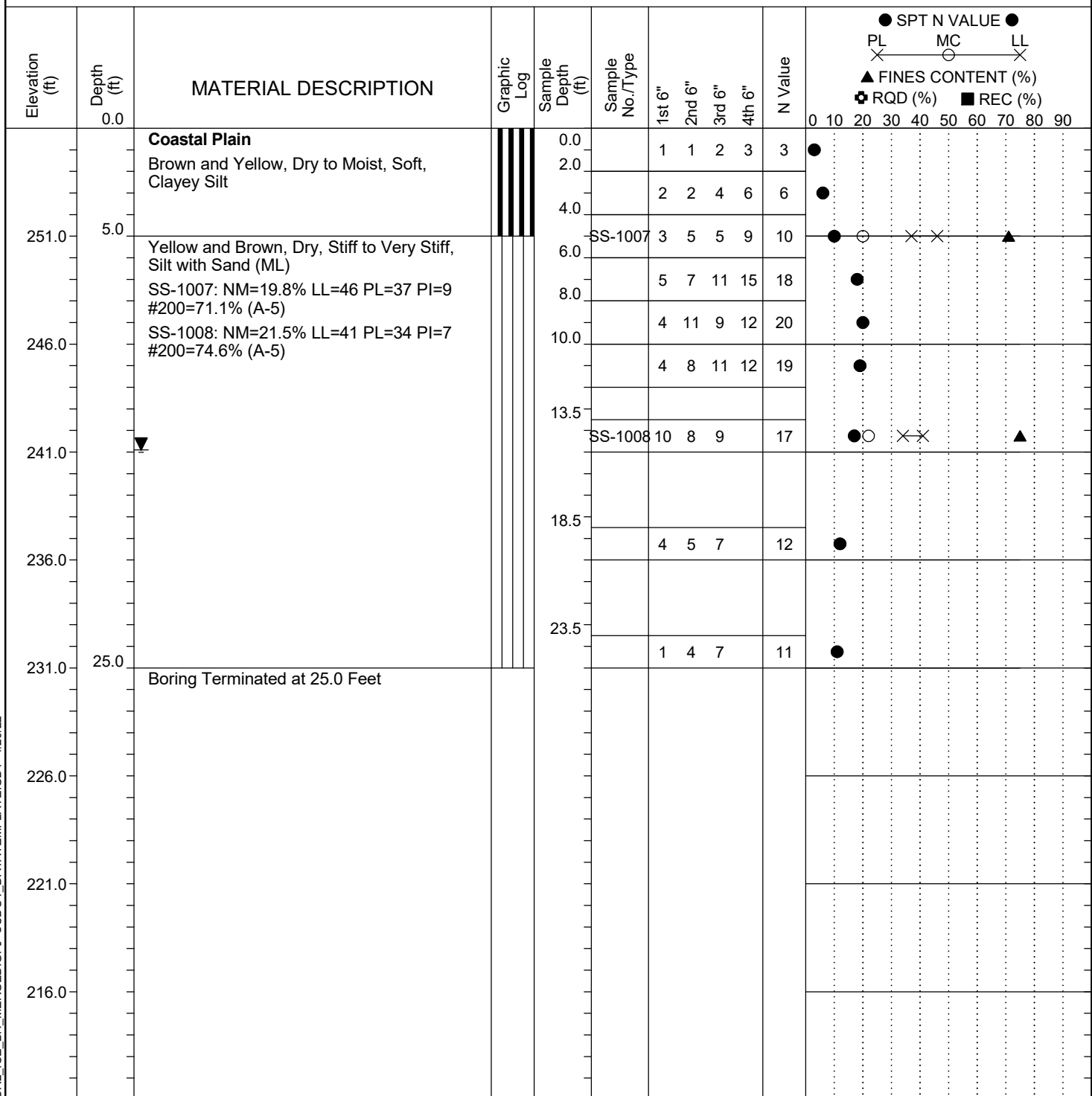
Project ID:	P039719	County:	Richland	Boring No.:	G-061
Site Description:	Carolina Crossroads Phase 2			Route:	N/A
Eng./Geo.:	T. Park	Boring Location:	223+00	Offset:	112 RT
Elev.:	270.0 ft	Latitude:	34.04159413	Longitude:	-81.08764294
Total Depth:	25 ft	Soil Depth:	25 ft	Date Started:	2/8/2022
Core Depth:	N/A ft	Date Completed:	2/8/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #071	Drill Method:	HSA	Energy Ratio:	95.1%
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				24HR	Dry



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

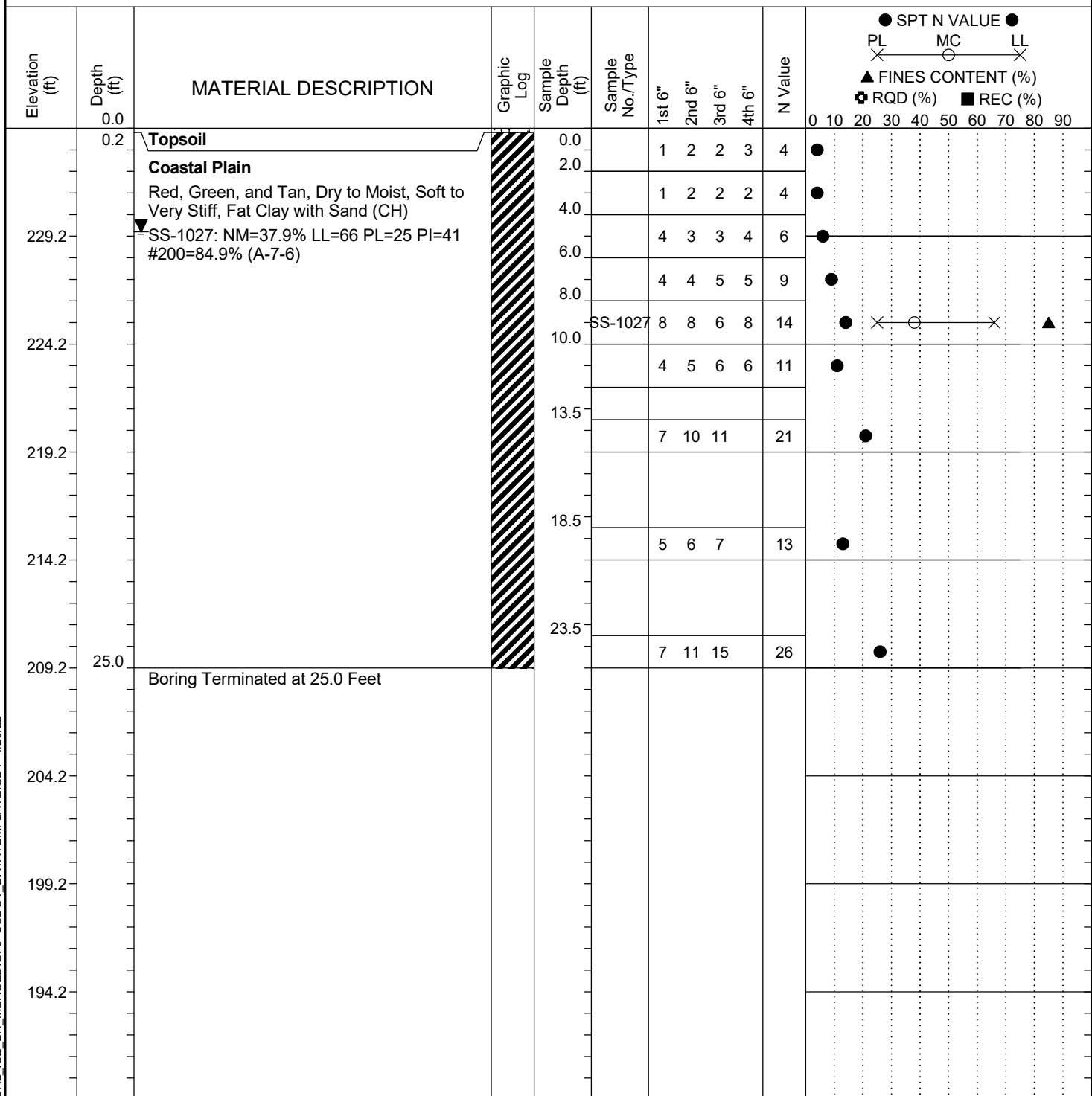
Project ID:	P039719	County:	Richland	Boring No.:	G-062
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	T. Park	Boring Location:	225+50	Offset:	140 LT
Elev.:	256.0 ft	Latitude:	34.04252153	Longitude:	-81.08727919
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				24HR	14.9 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

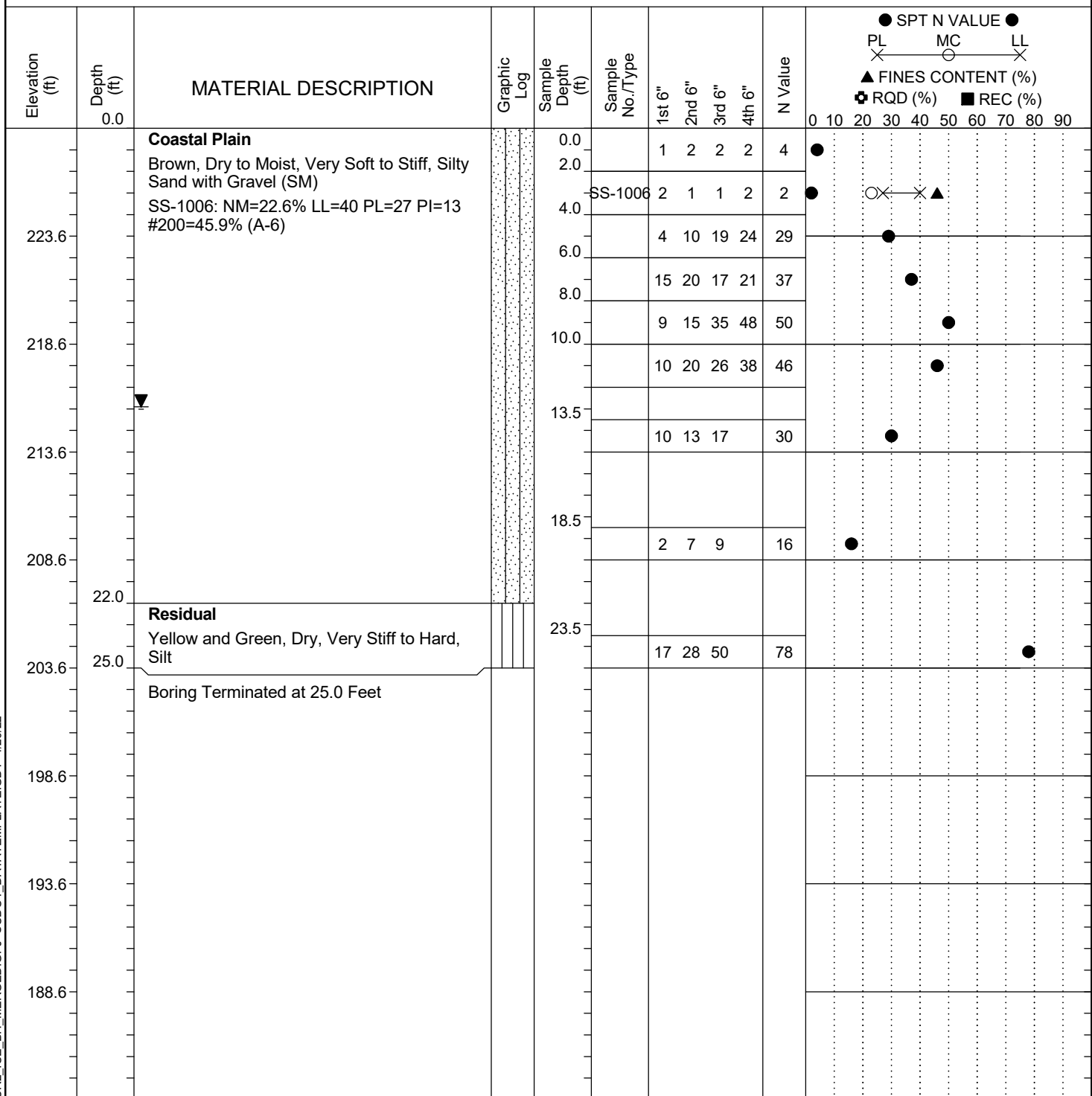
Project ID:	P039719	County:	Richland	Boring No.:	G-063
Site Description:	Carolina Crossroads Phase 2			Route:	N/A
Eng./Geo.:	T. Park	Boring Location:	228+00	Offset:	110 RT
Elev.:	234.2 ft	Latitude:	34.04221625	Longitude:	-81.08617103
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Date Started:	2/8/2022				
Date Completed:	2/8/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #071	Drill Method:	HSA	Hammer Type:	Automatic
Energy Ratio:	95.1%				
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB 12.8 ft
24HR:	4.8 ft				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

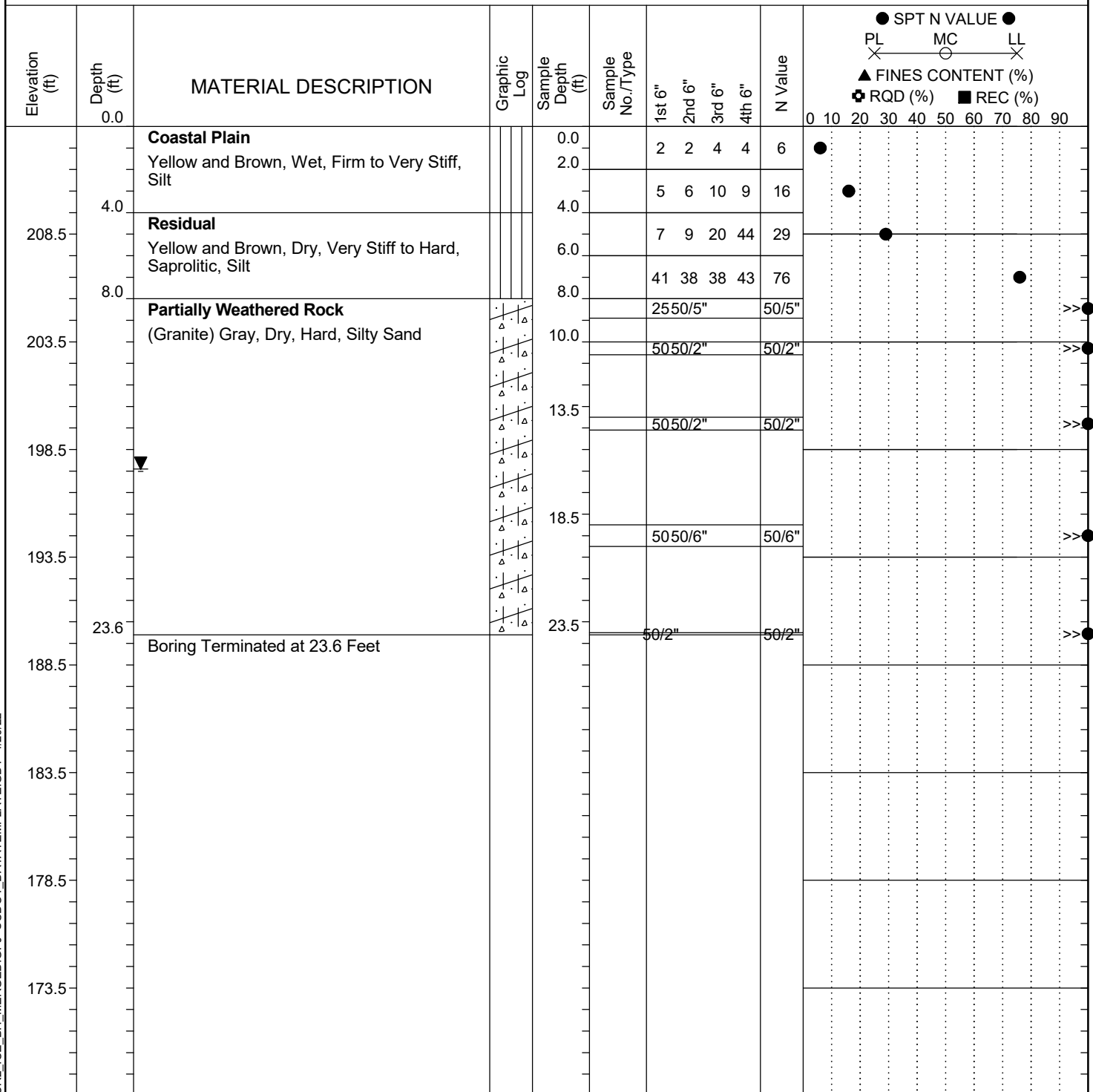
Project ID:	P039719	County:	Richland	Boring No.:	G-064
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	230+50	Offset:	140 LT
Elev.:	228.6 ft	Latitude:	34.04313874	Longitude:	-81.0858043
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				24HR	12.9 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

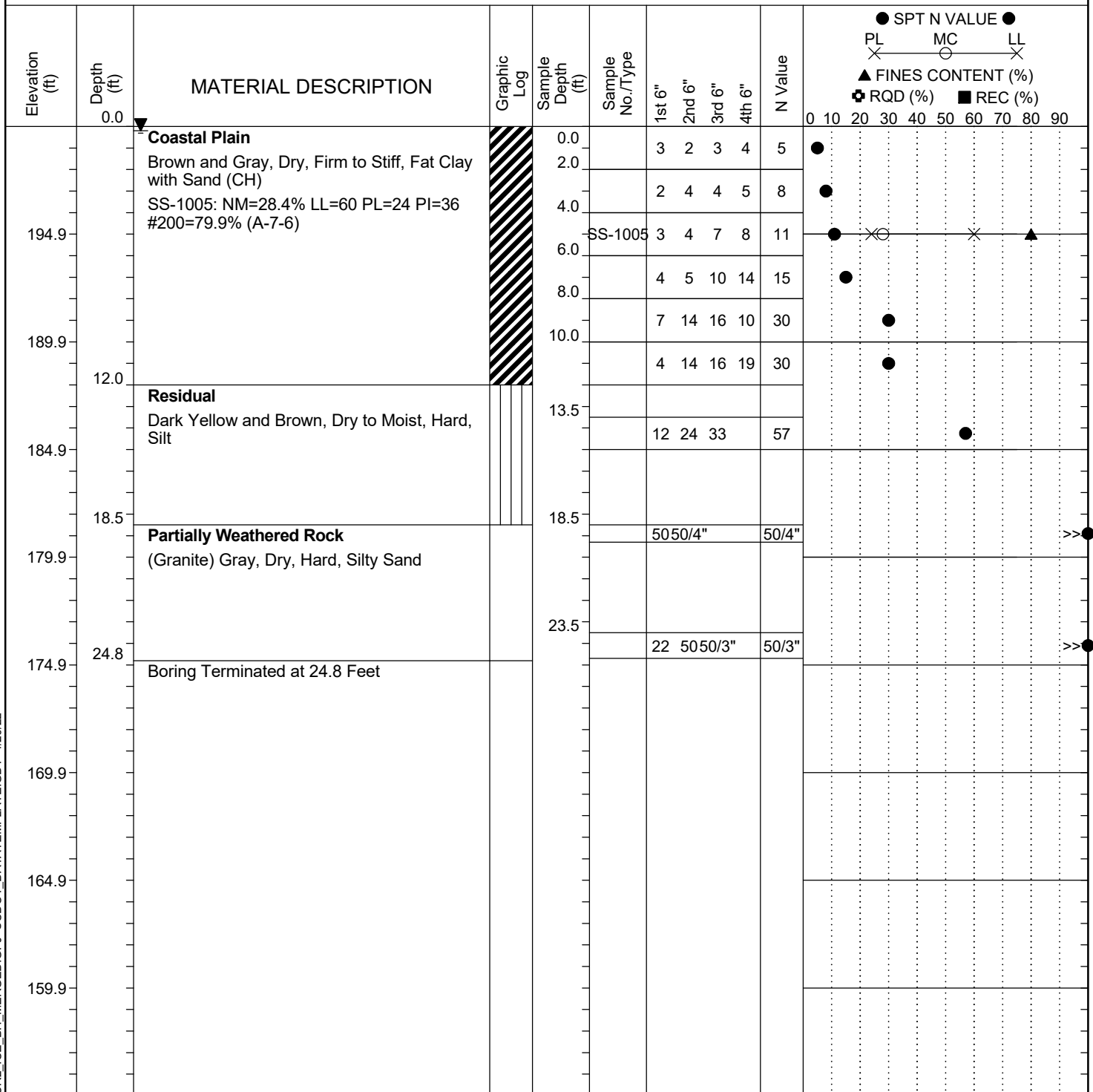
Project ID: P039719				County: Richland		Boring No.: G-065		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: O. Daynes		Boring Location: 233+00		Offset: 95 RT		Alignment: I20CL		
Elev.: 213.5 ft		Latitude: 34.04287028		Longitude: -81.08471839		Date Started: 2/24/2022		
Total Depth: 23.6 ft		Soil Depth: 23.6 ft		Core Depth: N/A ft		Date Completed: 2/24/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31		Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%		
Core Size: N/A		Driller: A. Fowler		Groundwater: TOB Dry		24HR 15.9 ft		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

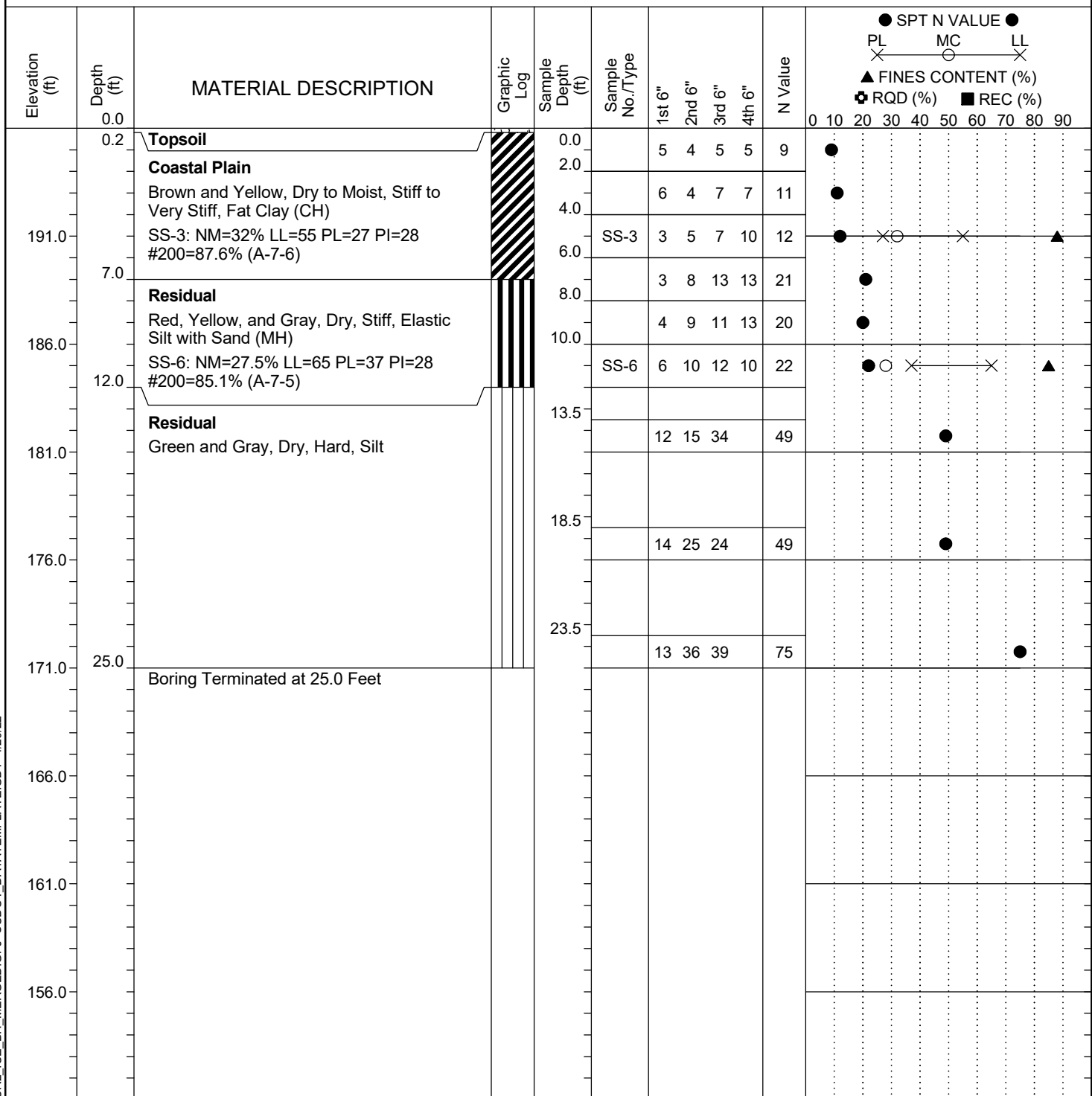
Project ID:	P039719	County:	Richland	Boring No.:	G-066
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	235+50	Offset:	120 LT
Elev.:	199.9 ft	Latitude:	34.04370682	Longitude:	-81.08429974
Total Depth:	24.7 ft	Soil Depth:	24.7 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				Energy Ratio:	86%
				24HR	0.2 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

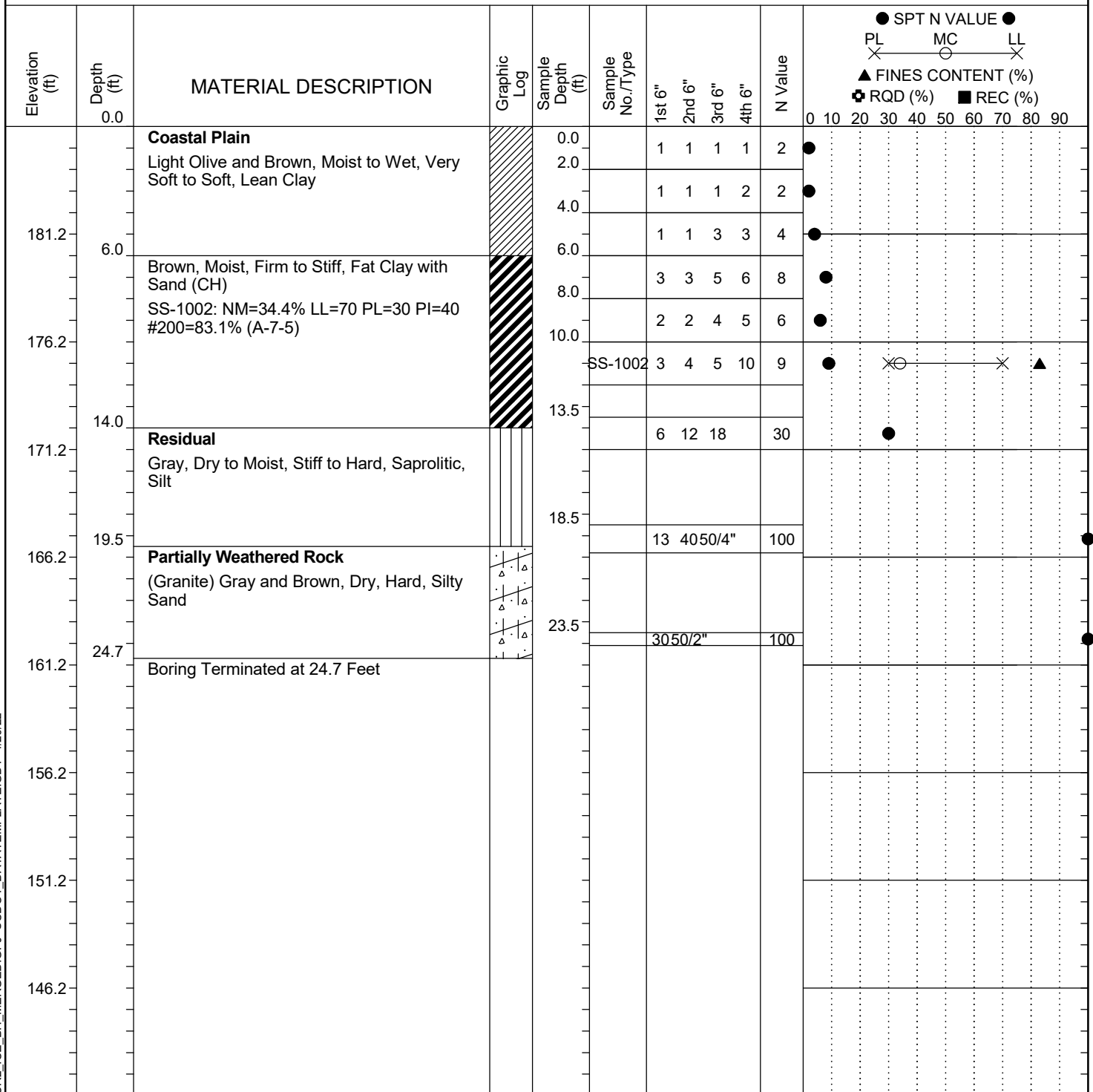
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Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	T. Park	Boring Location:	238+00	Offset:	100 RT
Elev.:	196.0 ft	Latitude:	34.04347517	Longitude:	-81.08323606
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				24HR	Dry



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

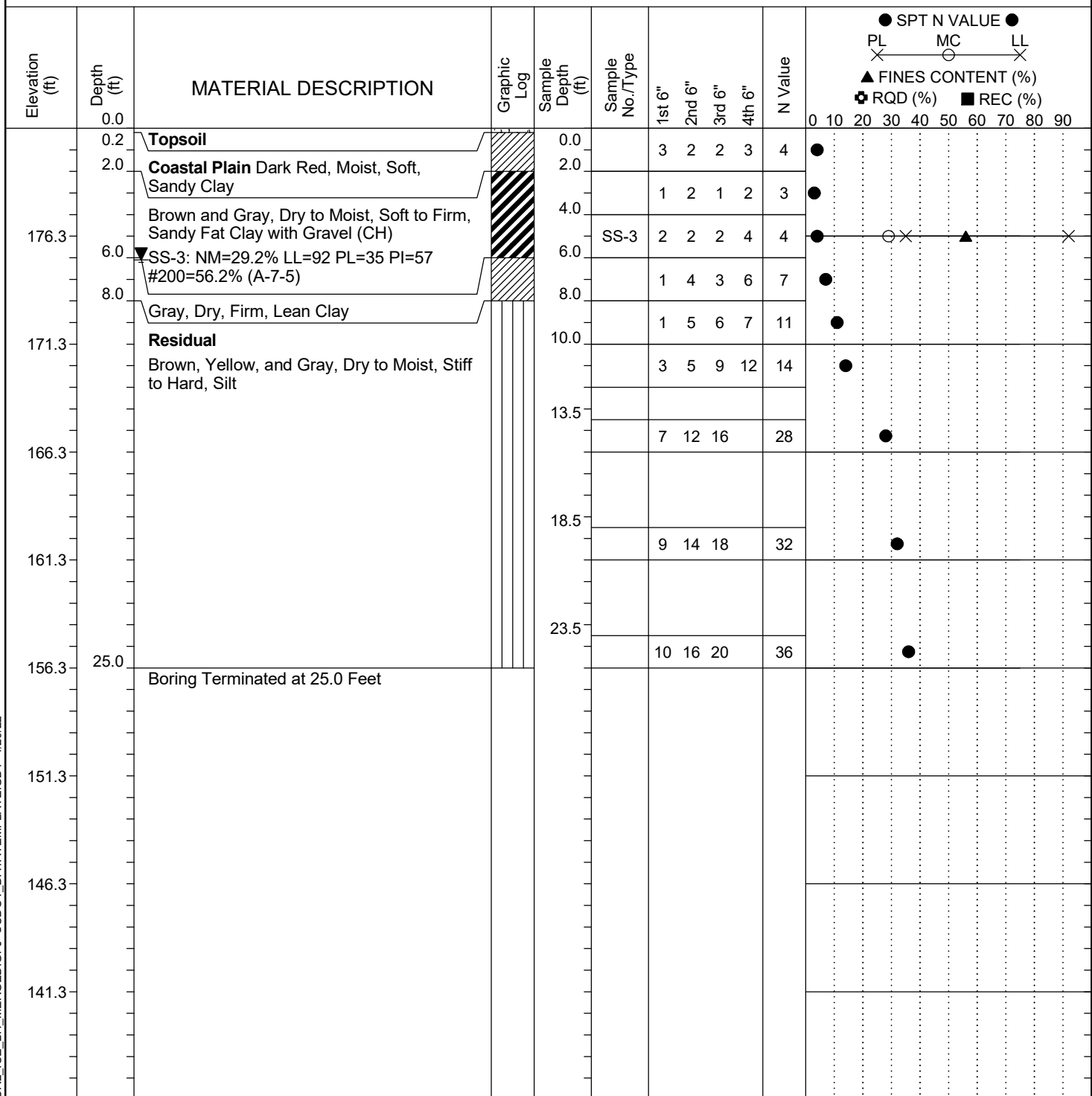
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Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	240+50	Offset:	120 LT
Elev.:	186.2 ft	Latitude:	34.04432399	Longitude:	-81.08282481
Total Depth:	25 ft	Soil Depth:	25 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
				Energy Ratio:	86%
				24HR	NM



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

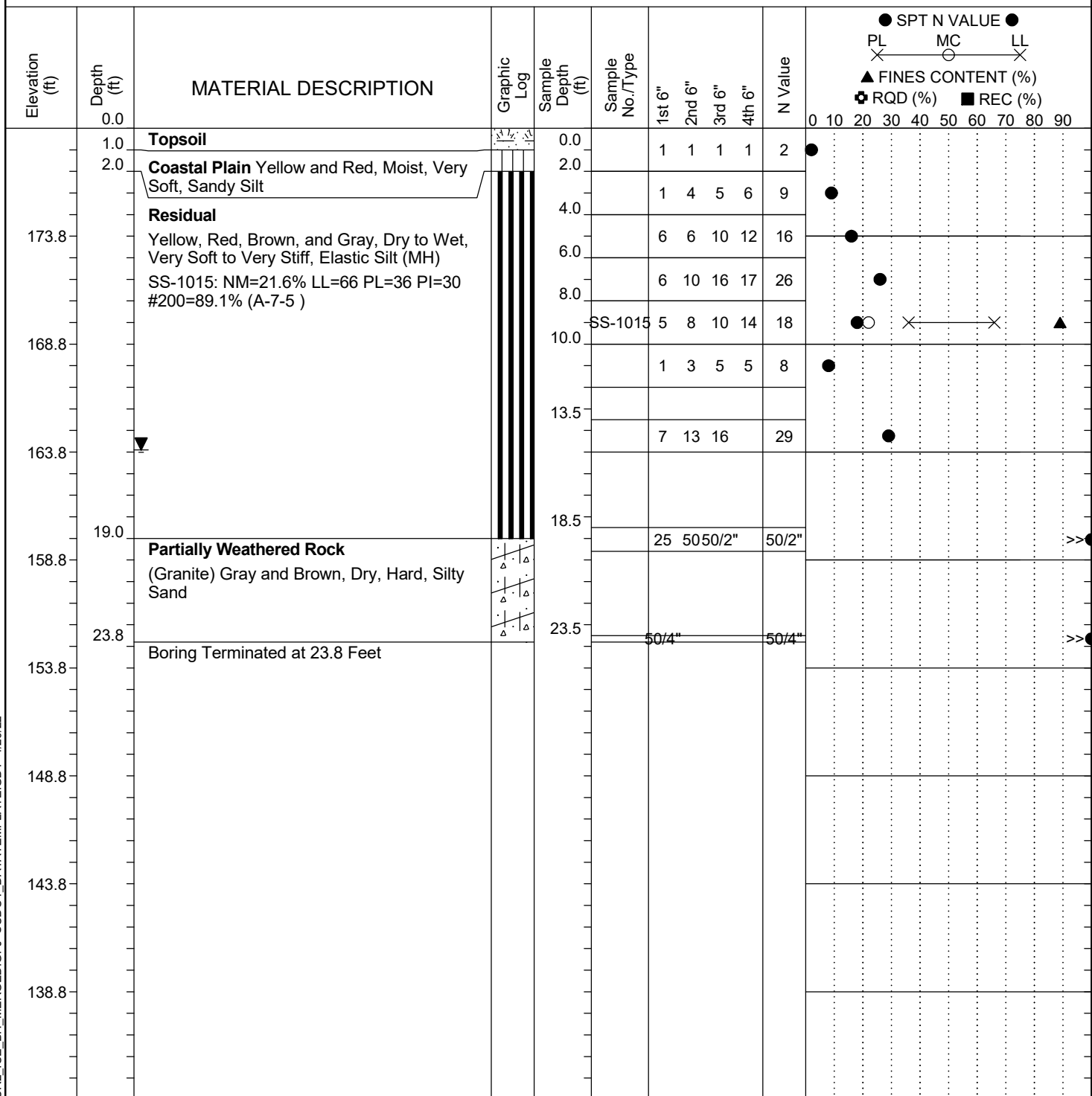
Project ID: P039719				County: Richland		Boring No.: G-069		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: T. Park		Boring Location: 243+00		Offset: 90 RT		Alignment: I20CL		
Elev.: 181.3 ft	Latitude: 34.04411689	Longitude: -81.08177596		Date Started: 2/24/2022				
Total Depth: 25 ft	Soil Depth: 25 ft	Core Depth: N/A ft		Date Completed: 2/24/2022				
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31	Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%			
Core Size: N/A	Driller: A. Fowler		Groundwater: TOB 18.2 ft		24HR 6.1 ft			



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

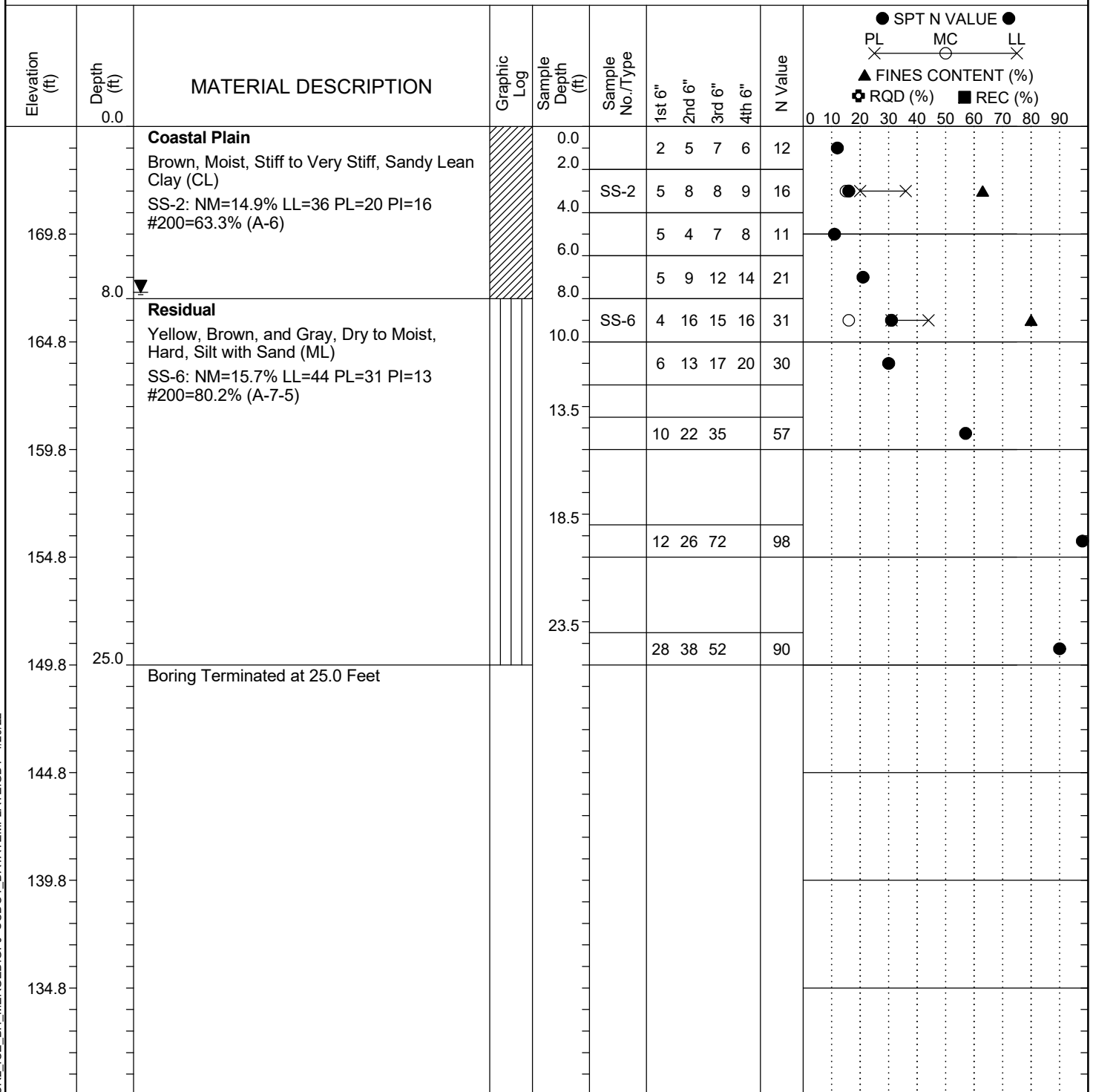
Project ID: P039719				County: Richland		Boring No.: G-070		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: T. Park		Boring Location: 245+50		Offset: 120 LT		Alignment: I20CL		
Elev.: 178.8 ft	Latitude: 34.04494114	Longitude: -81.08134986		Date Started: 2/15/2022				
Total Depth: 23.8 ft	Soil Depth: 23.8 ft	Core Depth: N/A ft		Date Completed: 2/15/2022				
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31	Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%			
Core Size: N/A	Driller: A. Fowler		Groundwater: TOB Dry		24HR: 14.9 ft			



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

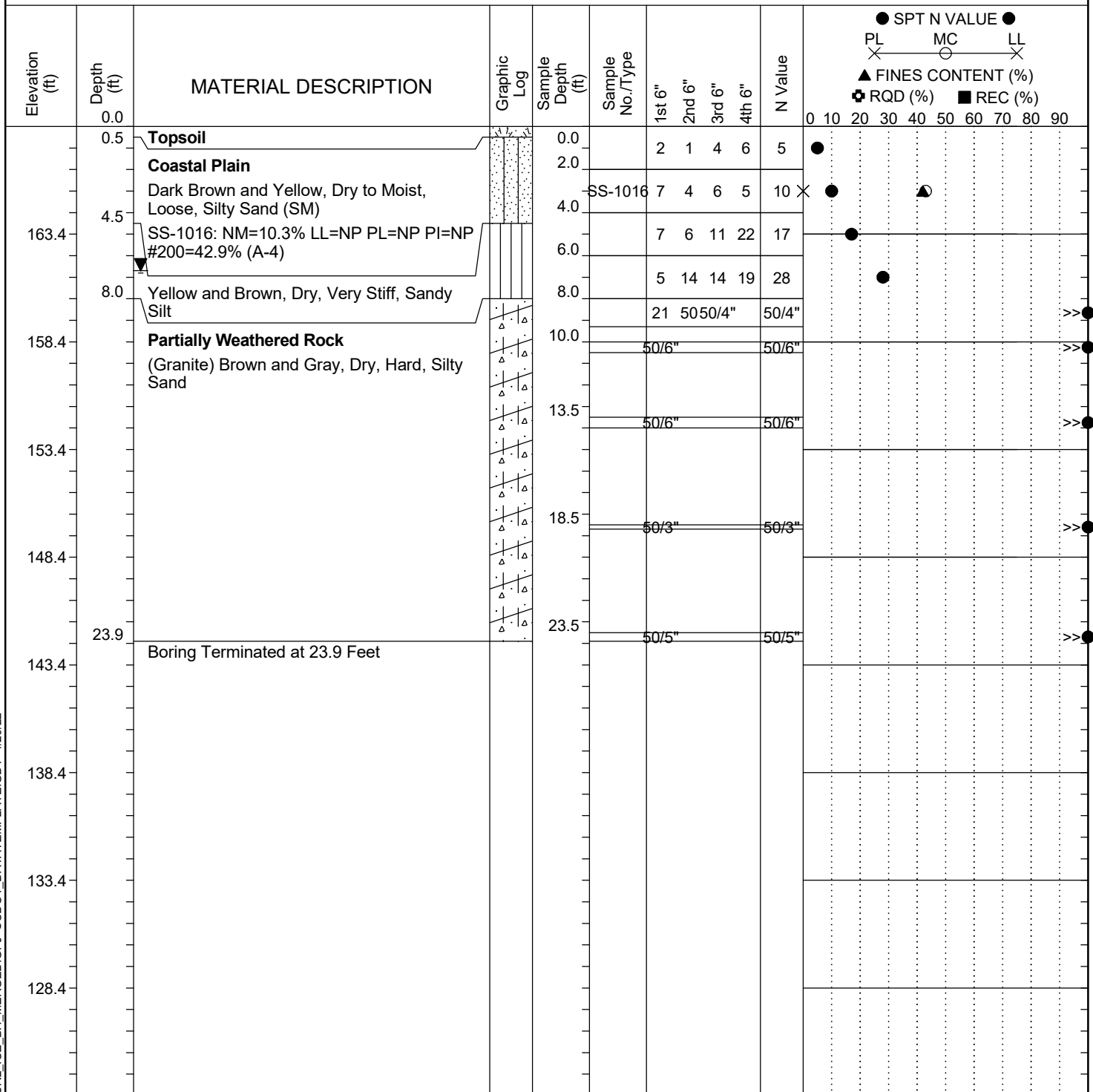
Project ID: P039719				County: Richland		Boring No.: G-071		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: T. Park		Boring Location: 248+00		Offset: 85 RT		Alignment: I20CL		
Elev.: 174.8 ft		Latitude: 34.04474631		Longitude: -81.08030842		Date Started: 2/24/2022		
Total Depth: 25 ft		Soil Depth: 25 ft		Core Depth: N/A ft		Date Completed: 2/24/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31		Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%		
Core Size: N/A		Driller: A. Fowler		Groundwater: TOB Dry		24HR 7.7 ft		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

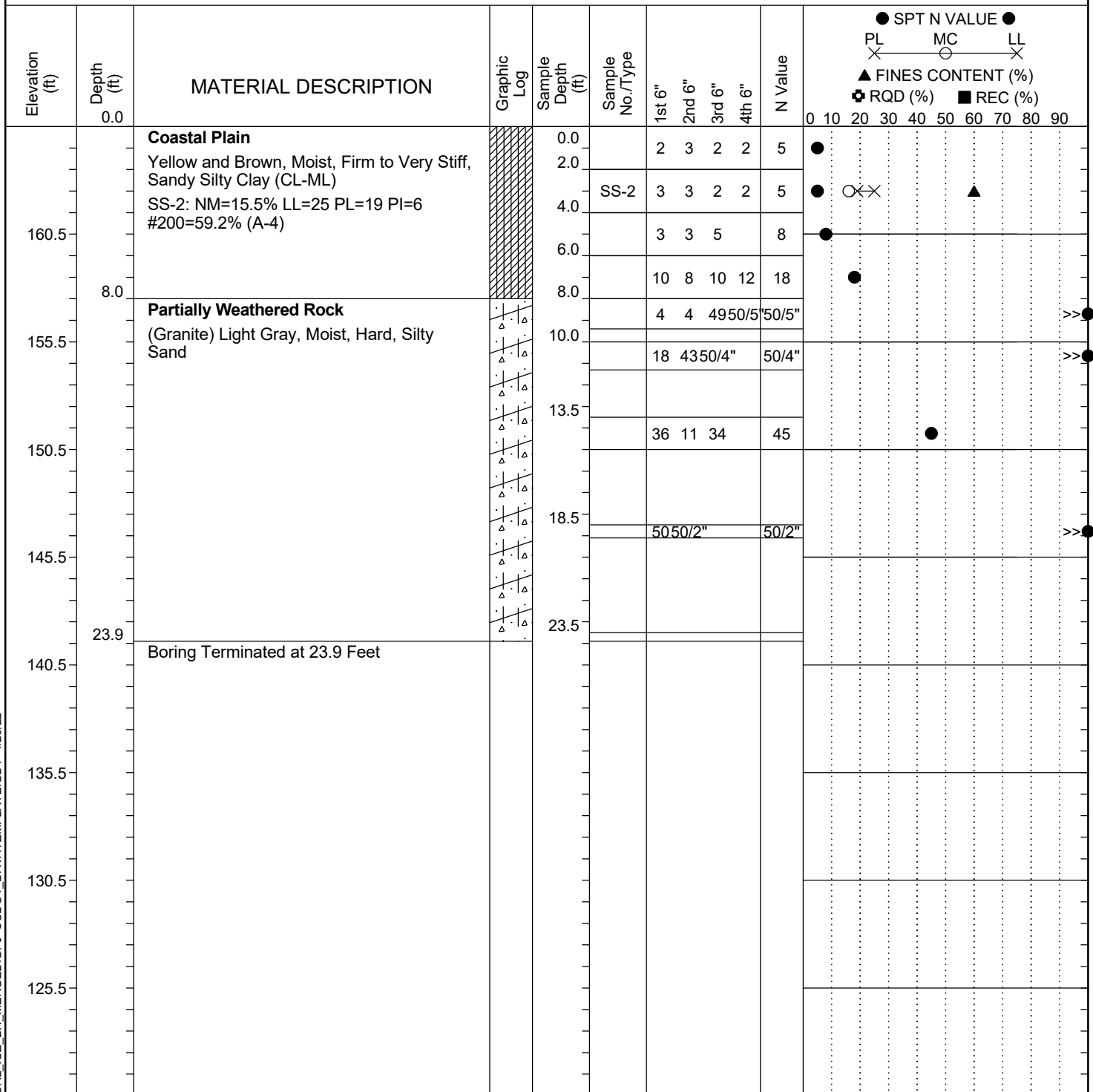
Project ID:	P039719	County:	Richland	Boring No.:	G-072
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	T. Park	Boring Location:	250+50	Offset:	110 LT
Elev.:	168.4 ft	Latitude:	34.04553372	Longitude:	-81.07986006
Total Depth:	23.9 ft	Soil Depth:	23.9 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB
				19.9 ft	24HR
				6.7 ft	



LEGEND

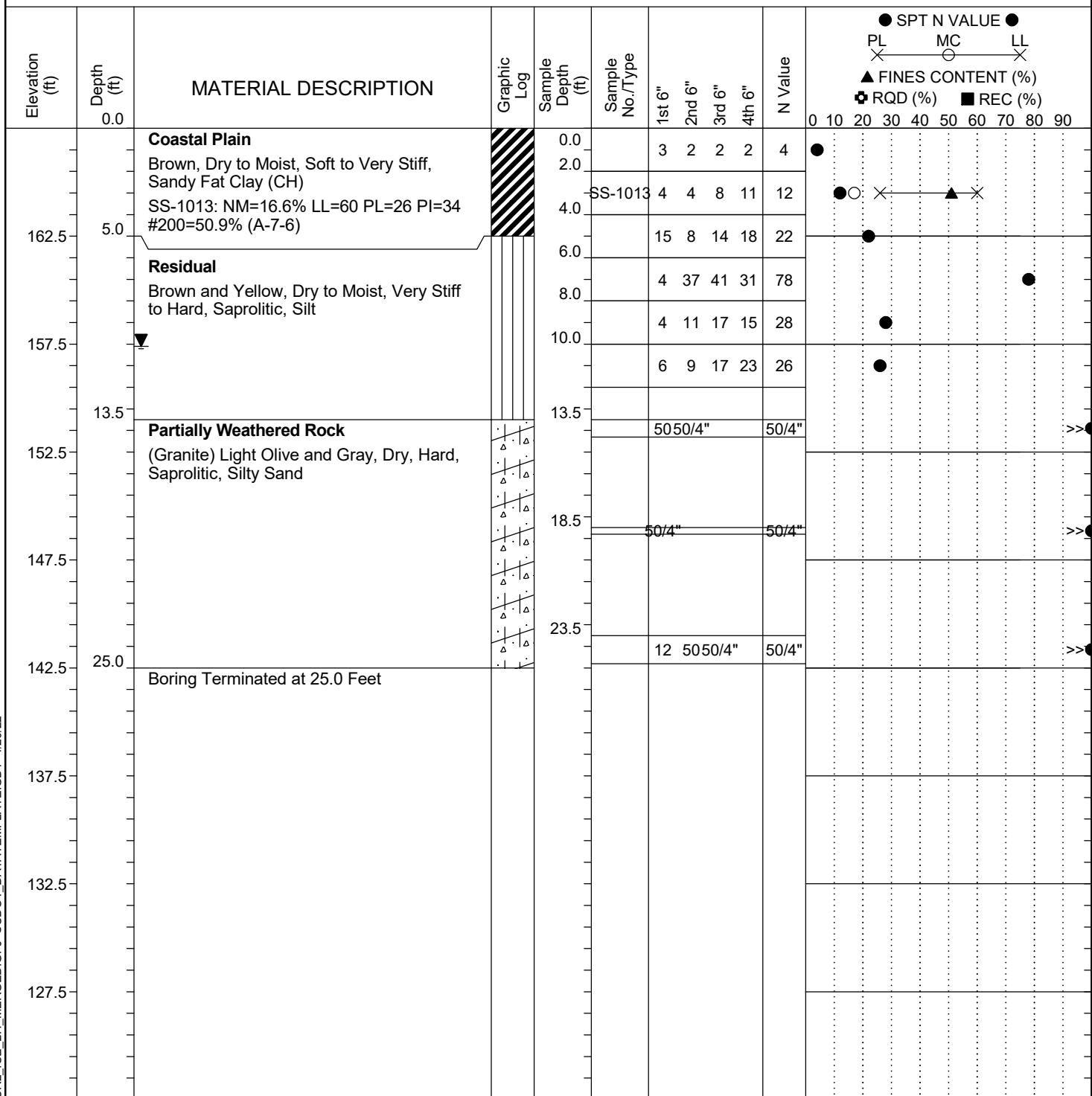
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID: P039719				County: Richland		Boring No.: G-073		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: O. Daynes		Boring Location: 253+00		Offset: 85 RT		Alignment: I20CL		
Elev.: 165.5 ft		Latitude: 34.04536343		Longitude: -81.07883344		Date Started: 2/25/2022		
Total Depth: 23.9 ft		Soil Depth: 23.9 ft		Core Depth: N/A ft		Date Completed: 2/25/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31		Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%		
Core Size: N/A		Driller: A. Fowler		Groundwater: TOB 15.3 ft		24HR NM		


LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

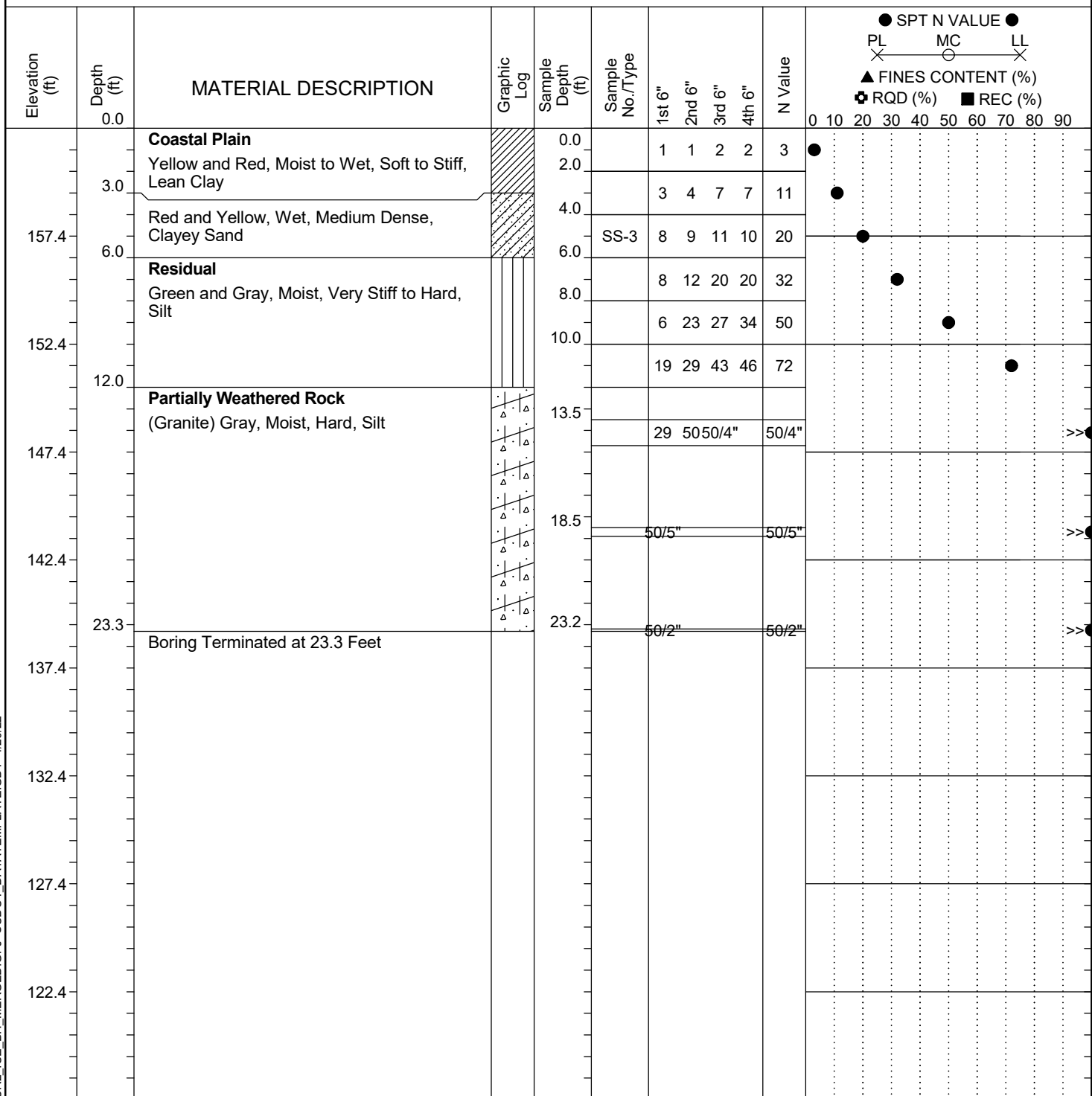
Project ID:			P039719			County:		Richland		Boring No.:		G-074							
Site Description:			Carolina Crossroads Phase 2								Route:		I-20						
Eng./Geo.:			O. Daynes		Boring Location:			255+50		Offset:		110 LT		Alignment:		I20CL			
Elev.:		167.5 ft		Latitude:		34.04615084		Longitude:		-81.07838507		Date Started:		2/16/2022					
Total Depth:			25 ft		Soil Depth:		25 ft		Core Depth:		N/A ft		Date Completed:		2/16/2022				
Bore Hole Diameter (in):				2.25		Sampler Configuration				Liner Required:		Y (N)		Liner Used:		Y (N)			
Drill Machine:		CME-45B #31			Drill Method:			HSA		Hammer Type:		Automatic		Energy Ratio:		86%			
Core Size:		N/A			Driller:		A. Fowler			Groundwater:		TOB		22.8 ft		24HR		10.1 ft	



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

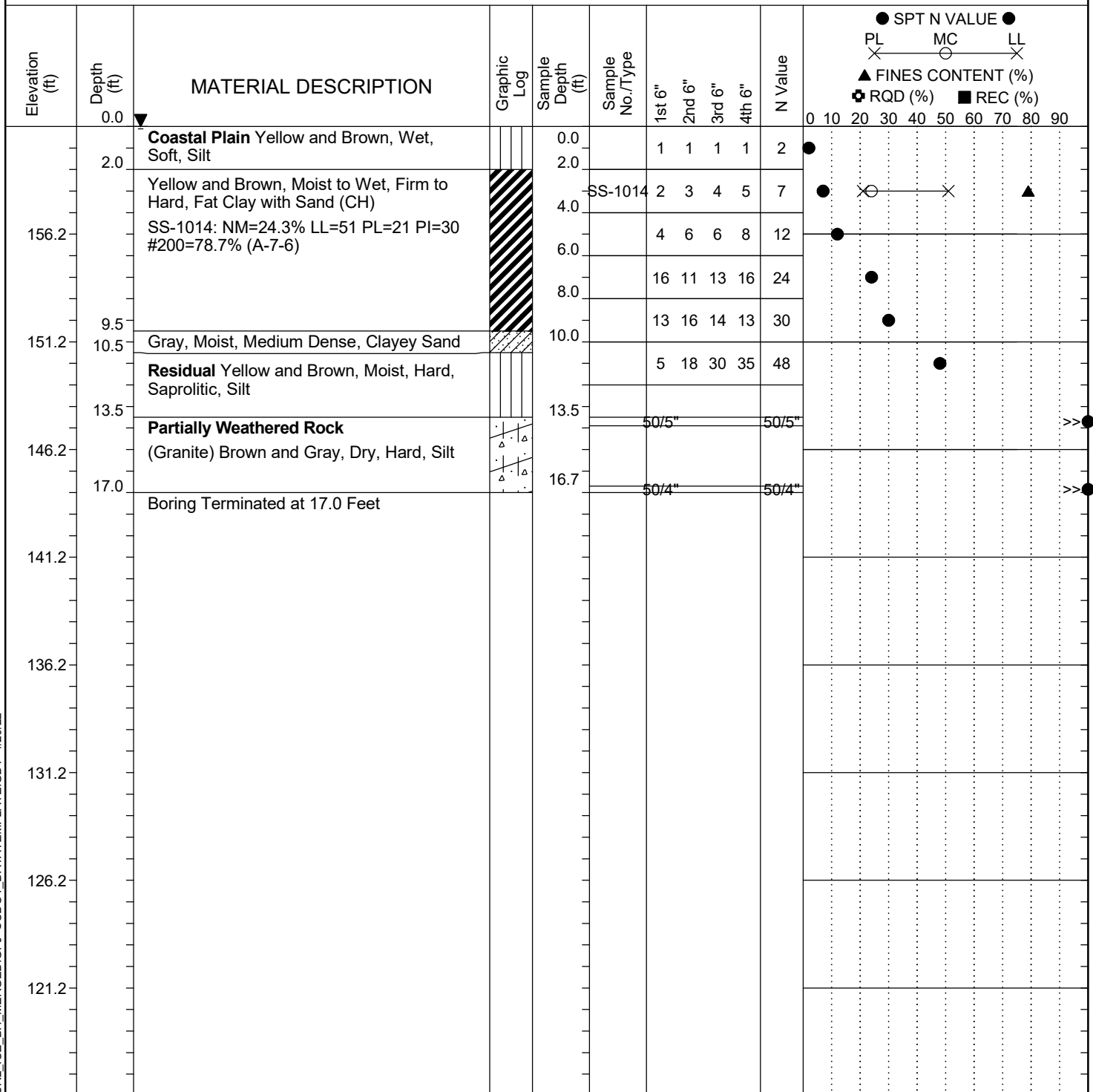
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Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: O. Daynes		Boring Location: 258+00		Offset: 90 RT		Alignment: I20CL		
Elev.: 162.4 ft	Latitude: 34.04596826	Longitude: -81.07735104		Date Started: 2/25/2022				
Total Depth: 23.3 ft	Soil Depth: 23.3 ft	Core Depth: N/A ft		Date Completed: 2/25/2022				
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31	Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%			
Core Size: N/A	Driller: A. Fowler		Groundwater: TOB 12 ft		24HR: NM			



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

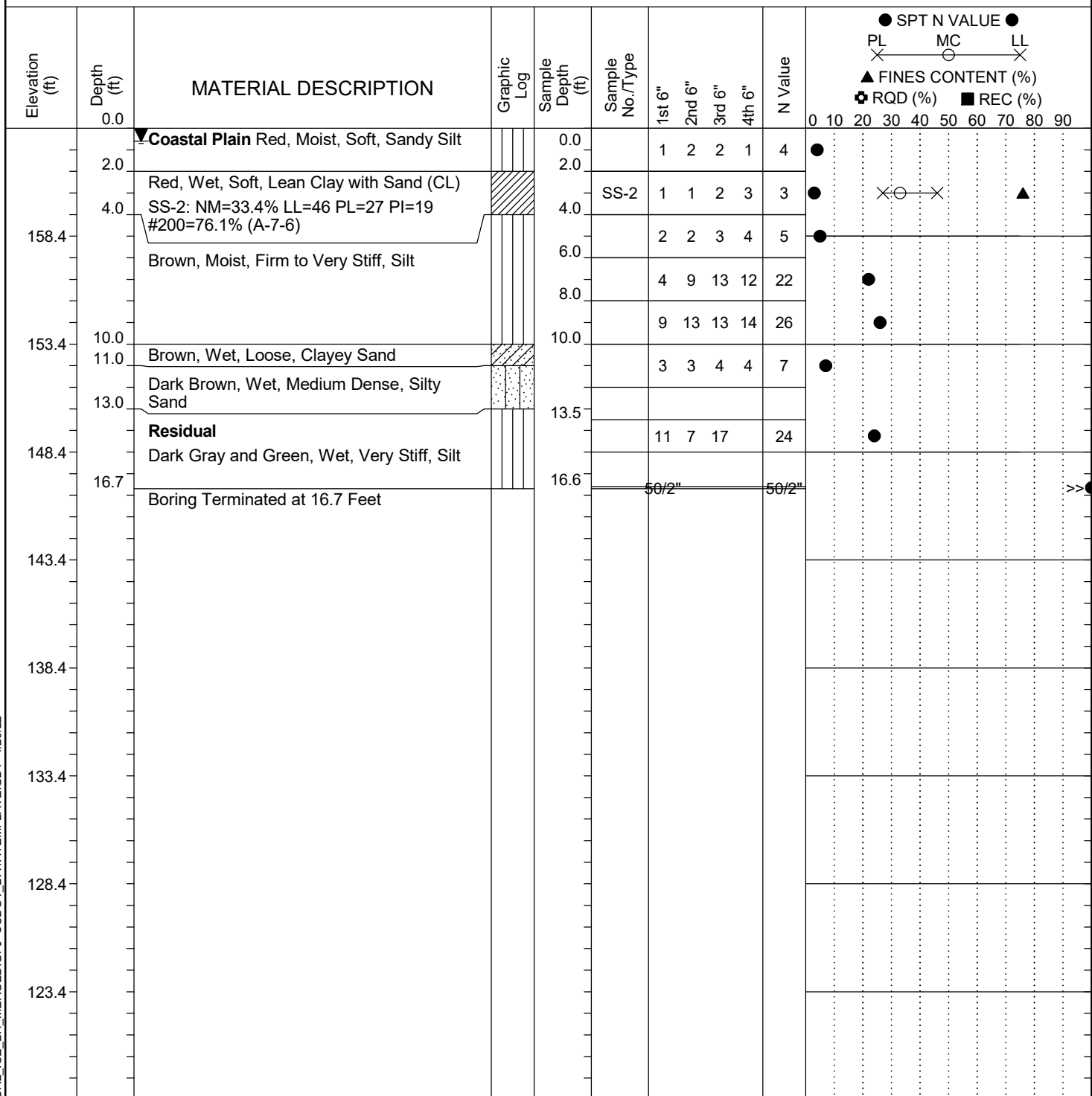
Project ID: P039719				County: Richland		Boring No.: G-076		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: O. Daynes		Boring Location: 260+50			Offset: 110 LT		Alignment: I20CL	
Elev.: 161.2 ft		Latitude: 34.04676794		Longitude: -81.07691006		Date Started: 2/16/2022		
Total Depth: 17 ft		Soil Depth: 17 ft		Core Depth: N/A ft		Date Completed: 2/16/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration			Liner Required: Y (N)		Liner Used: Y (N)	
Drill Machine: CME-45B #31		Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%		
Core Size: N/A		Driller: A. Fowler		Groundwater: TOB 5.1 ft		24HR 0 ft		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

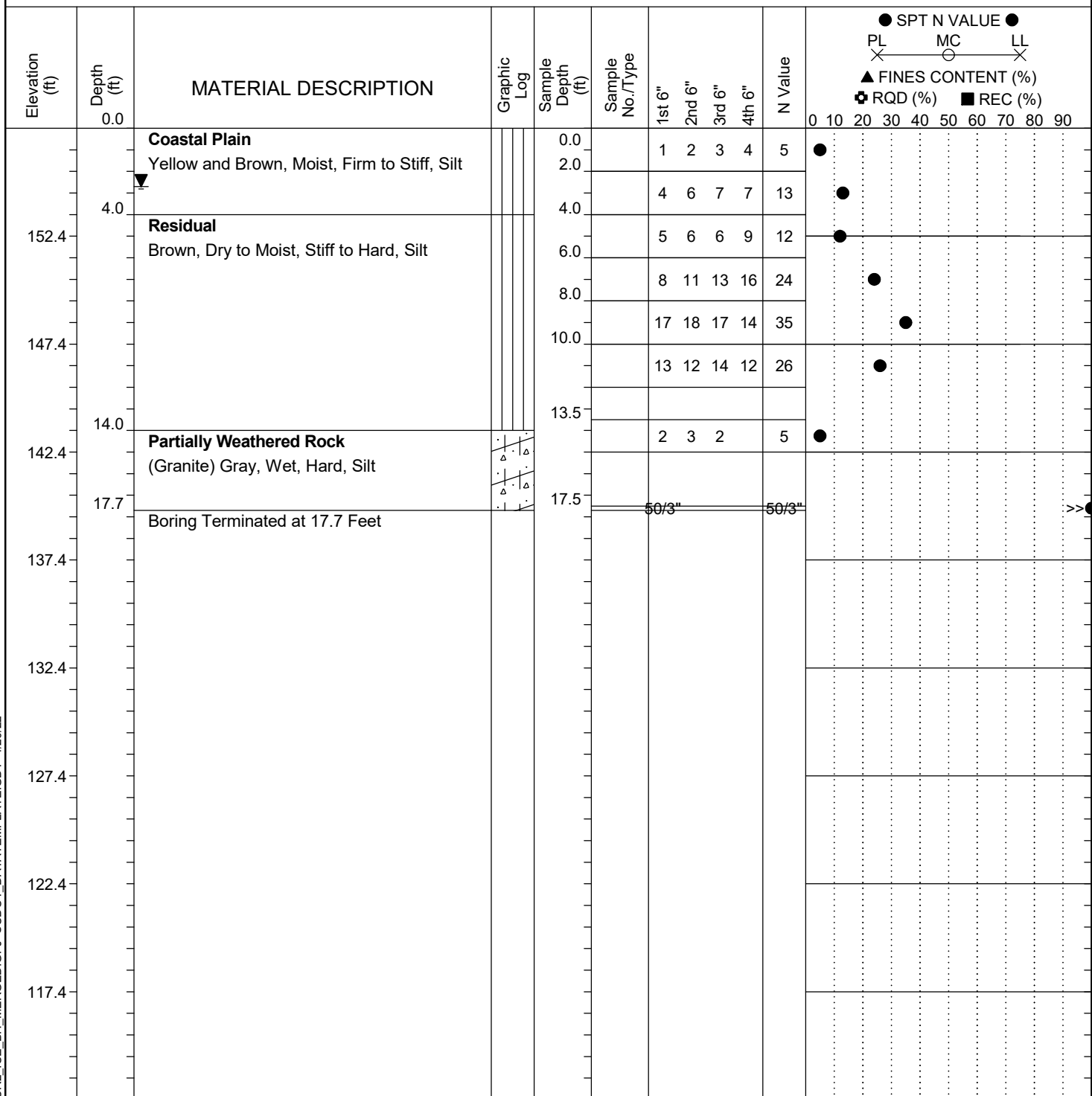
Project ID: P039719				County: Richland		Boring No.: G-077		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: O. Daynes		Boring Location: 263+00		Offset: 85 RT		Alignment: I20CL		
Elev.: 163.4 ft	Latitude: 34.04659762	Longitude: -81.07588343		Date Started: 2/21/2022				
Total Depth: 16.7 ft	Soil Depth: 16.7 ft	Core Depth: N/A ft		Date Completed: 2/21/2022				
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31	Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%			
Core Size: N/A	Driller: A. Fowler		Groundwater: TOB 2.2 ft		24HR 0.6 ft			



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

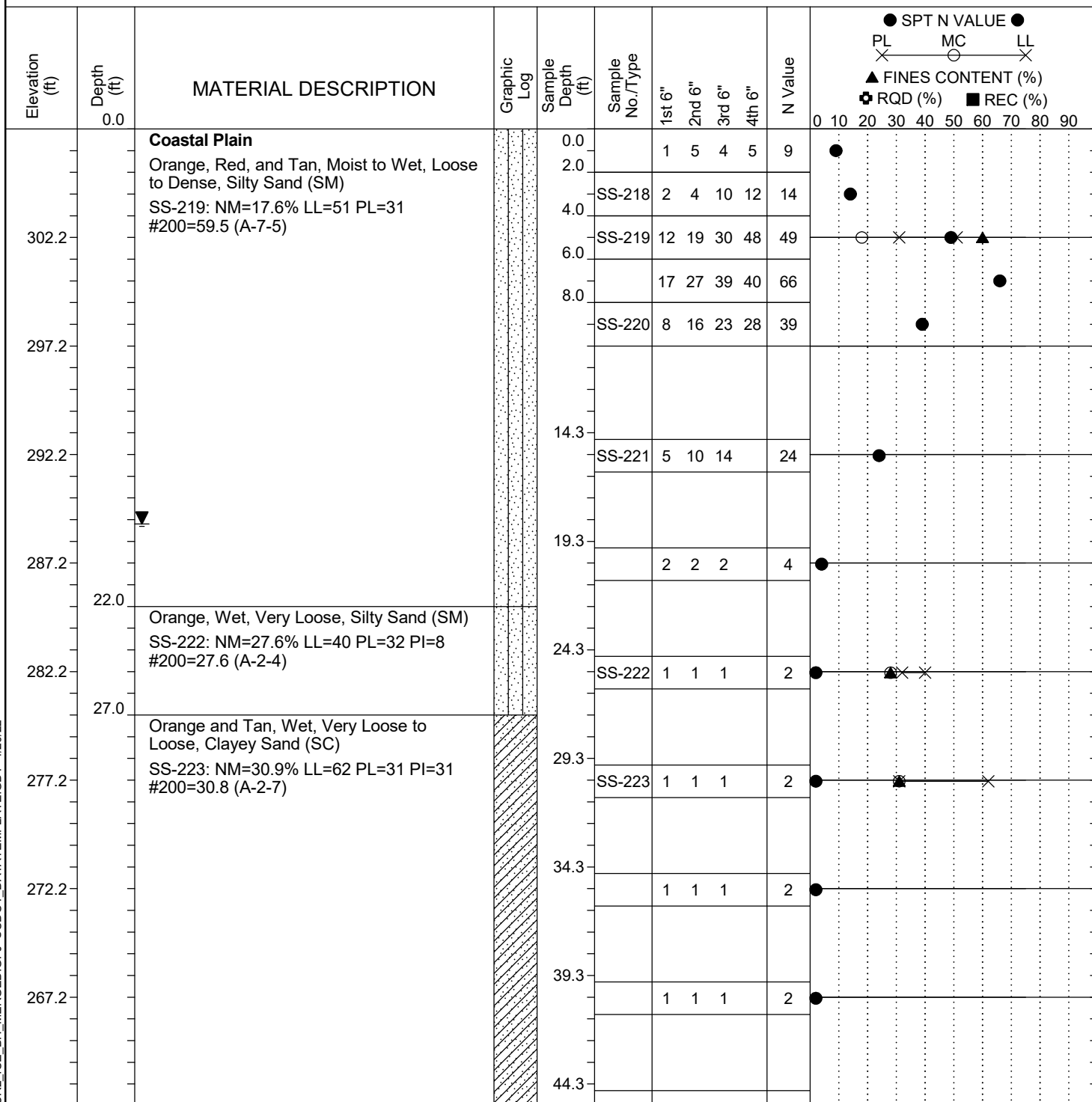
Project ID:	P039719	County:	Richland	Boring No.:	G-078
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	O. Daynes	Boring Location:	265+00	Offset:	110 LT
Elev.:	157.4 ft	Latitude:	34.04732331	Longitude:	-81.07558253
Total Depth:	17.7 ft	Soil Depth:	17.7 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB 4.6 ft
				24HR	2.7 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-081
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	609+00	Offset:	80 RT
Elev.:	307.2 ft	Latitude:	34.04027871	Longitude:	-81.09518036
Total Depth:	60.8 ft	Soil Depth:	60.8 ft	Date Started:	3/29/2022
Core Depth:	N/A ft	Date Completed:	3/29/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	24HR	18.2 ft

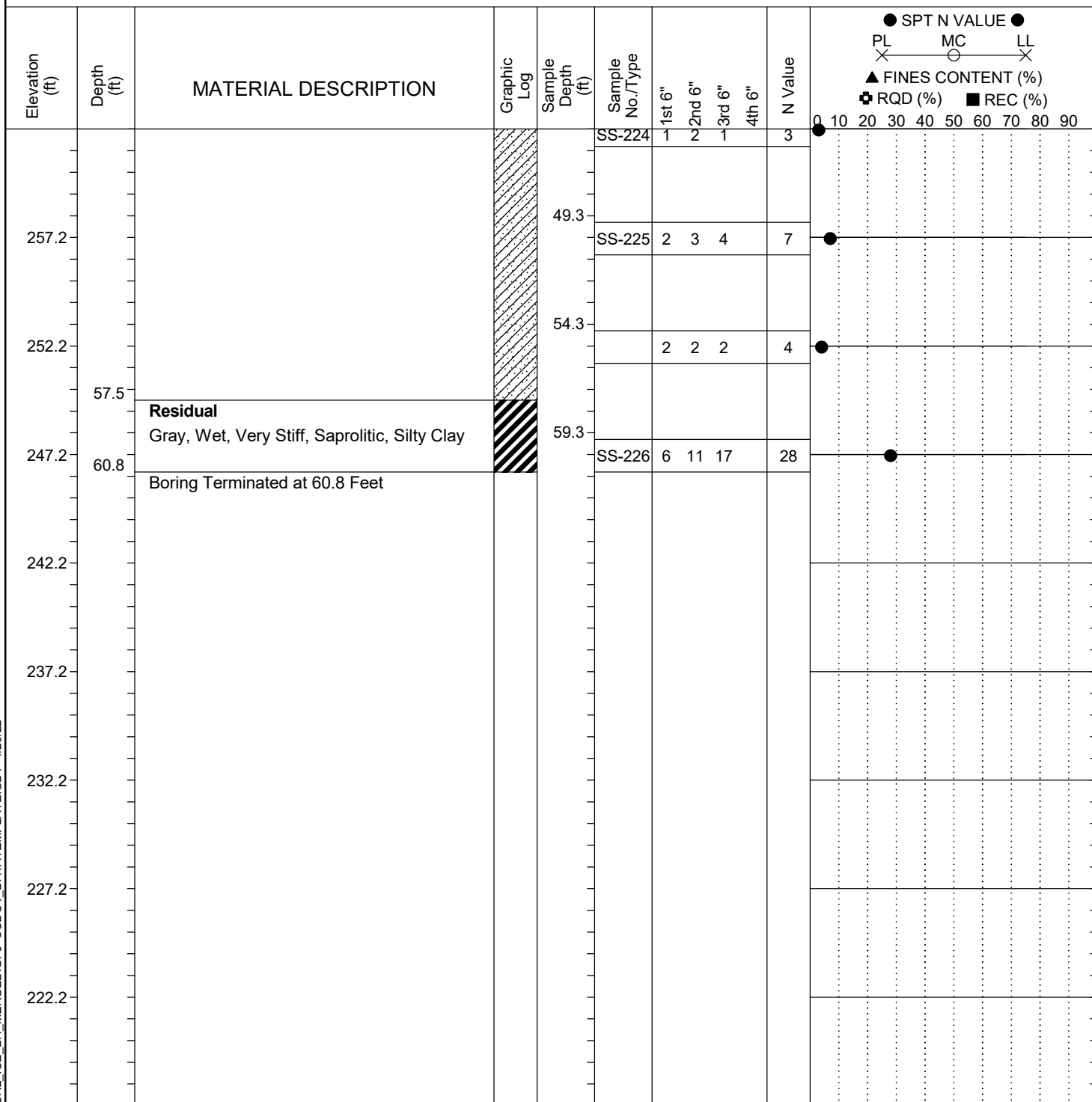


LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

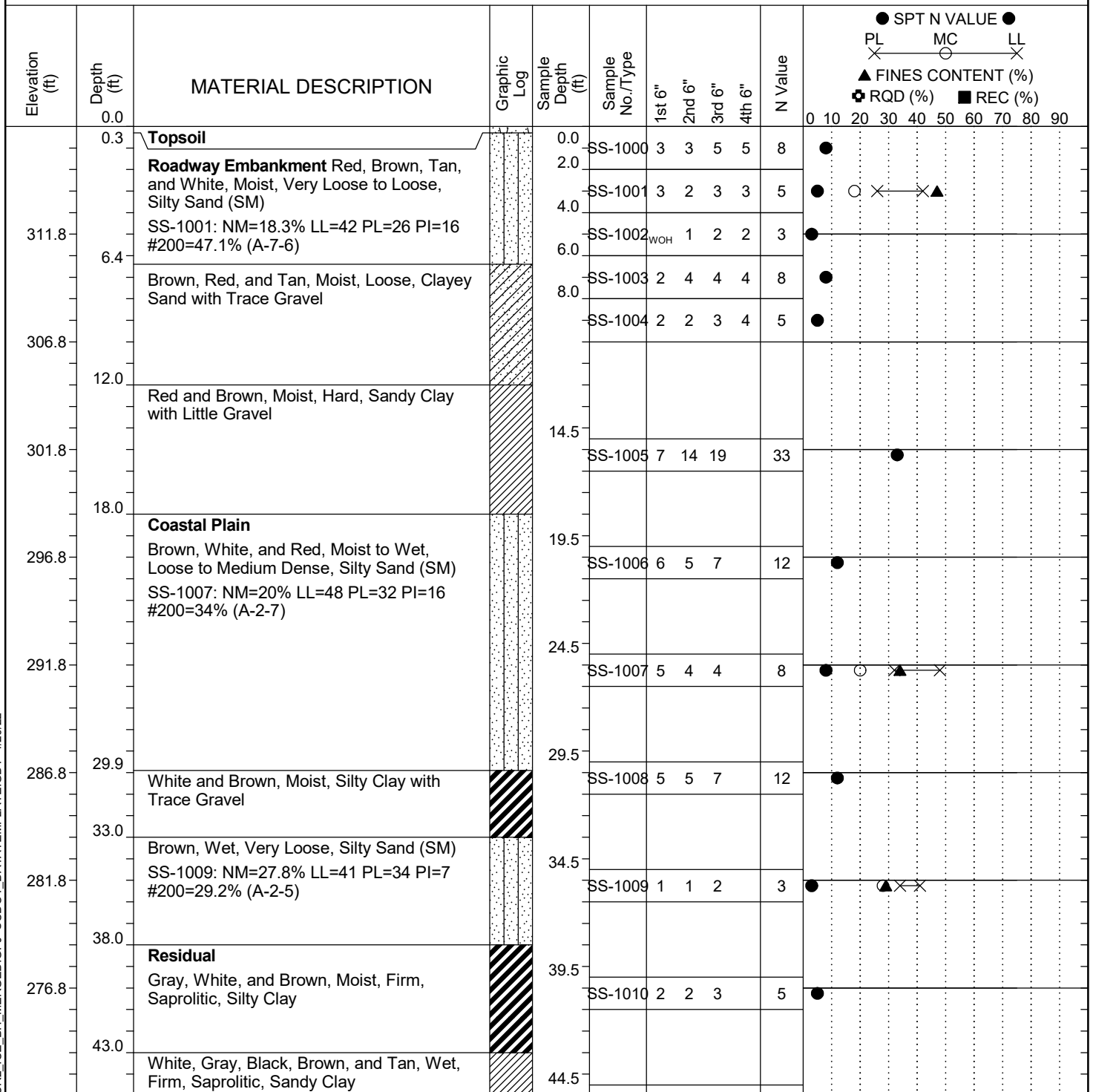
Project ID:	P039719	County:	Richland	Boring No.:	G-081
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	609+00	Offset:	80 RT
Elev.:	307.2 ft	Latitude:	34.04027871	Longitude:	-81.09518036
Total Depth:	60.8 ft	Soil Depth:	60.8 ft	Date Started:	3/29/2022
Core Depth:	N/A ft	Date Completed:	3/29/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	24HR	18.2 ft



LEGEND

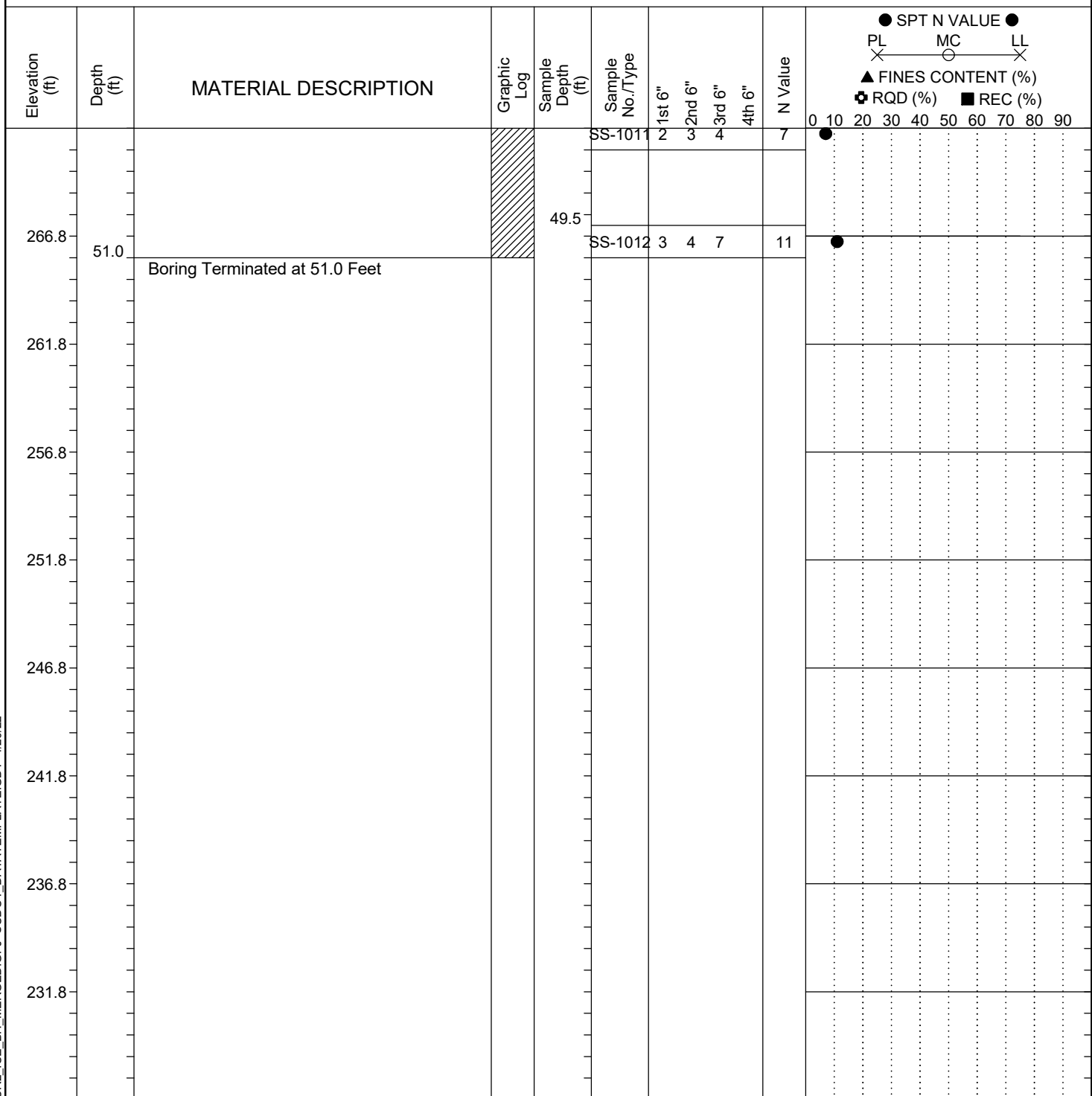
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:		P039719			County:		Richland		Boring No.:		G-082					
Site Description:		Carolina Crossroads Phase 2								Route:		I-20				
Eng./Geo.:		M. Akland		Boring Location:		200+15		Offset:		252 LT		Alignment:		I20CL		
Elev.:		316.8 ft		Latitude:		34.03975569		Longitude:		-81.09487043		Date Started:		3/14/2022		
Total Depth:		51 ft		Soil Depth:		51 ft		Core Depth:		N/A ft		Date Completed:		3/14/2022		
Bore Hole Diameter (in):			2.25		Sampler Configuration			Liner Required:		Y (N)		Liner Used:			Y (N)	
Drill Machine:		D-50 #435		Drill Method:		RW		Hammer Type:		Automatic		Energy Ratio:		84.4%		
Core Size:		N/A		Driller:		M. Morgan		Groundwater:		TOB 1.4 ft		24HR		Dry		


LEGEND
Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

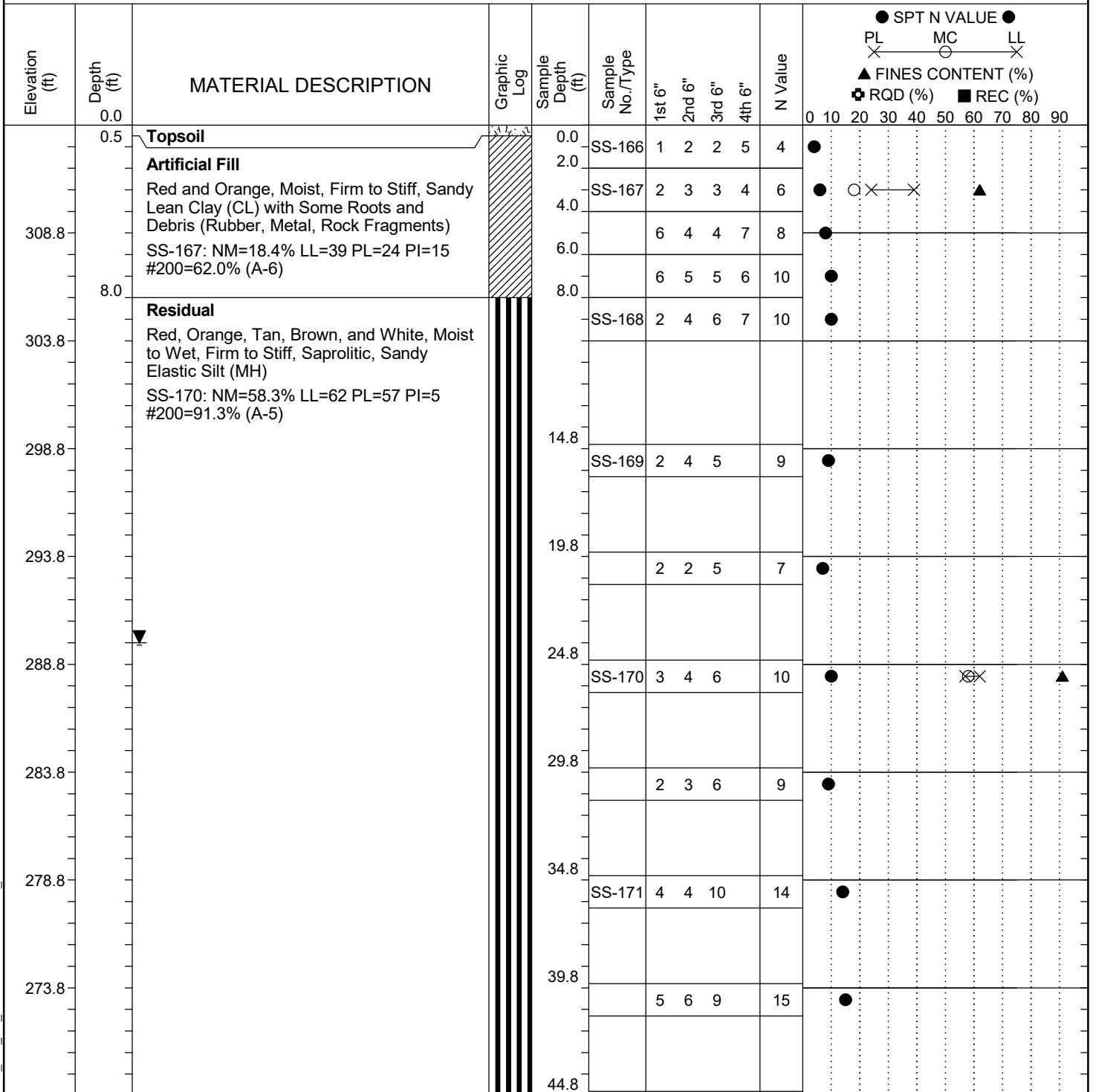
Project ID:	P039719	County:	Richland	Boring No.:	G-082
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	M. Akland	Boring Location:	200+15	Offset:	252 LT
Elev.:	316.8 ft	Latitude:	34.03975569	Longitude:	-81.09487043
Date Started:	3/14/2022				
Total Depth:	51 ft	Soil Depth:	51 ft	Core Depth:	N/A ft
Date Completed:	3/14/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	84.4%				
Core Size:	N/A	Driller:	M. Morgan	Groundwater:	TOB 1.4 ft
24HR	Dry				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-084
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	618+50	Offset:	125 RT
Elev.:	313.8 ft	Latitude:	34.03845066	Longitude:	-81.09296078
Total Depth:	46.3 ft	Soil Depth:	46.3 ft	Date Started:	3/21/2022
Core Depth:	N/A ft	Date Completed:	3/21/2022	Alignment:	US176WB
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	HSA	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	84.4%
Driller:	M. Morgan	Groundwater:	TOB	24HR	24 ft

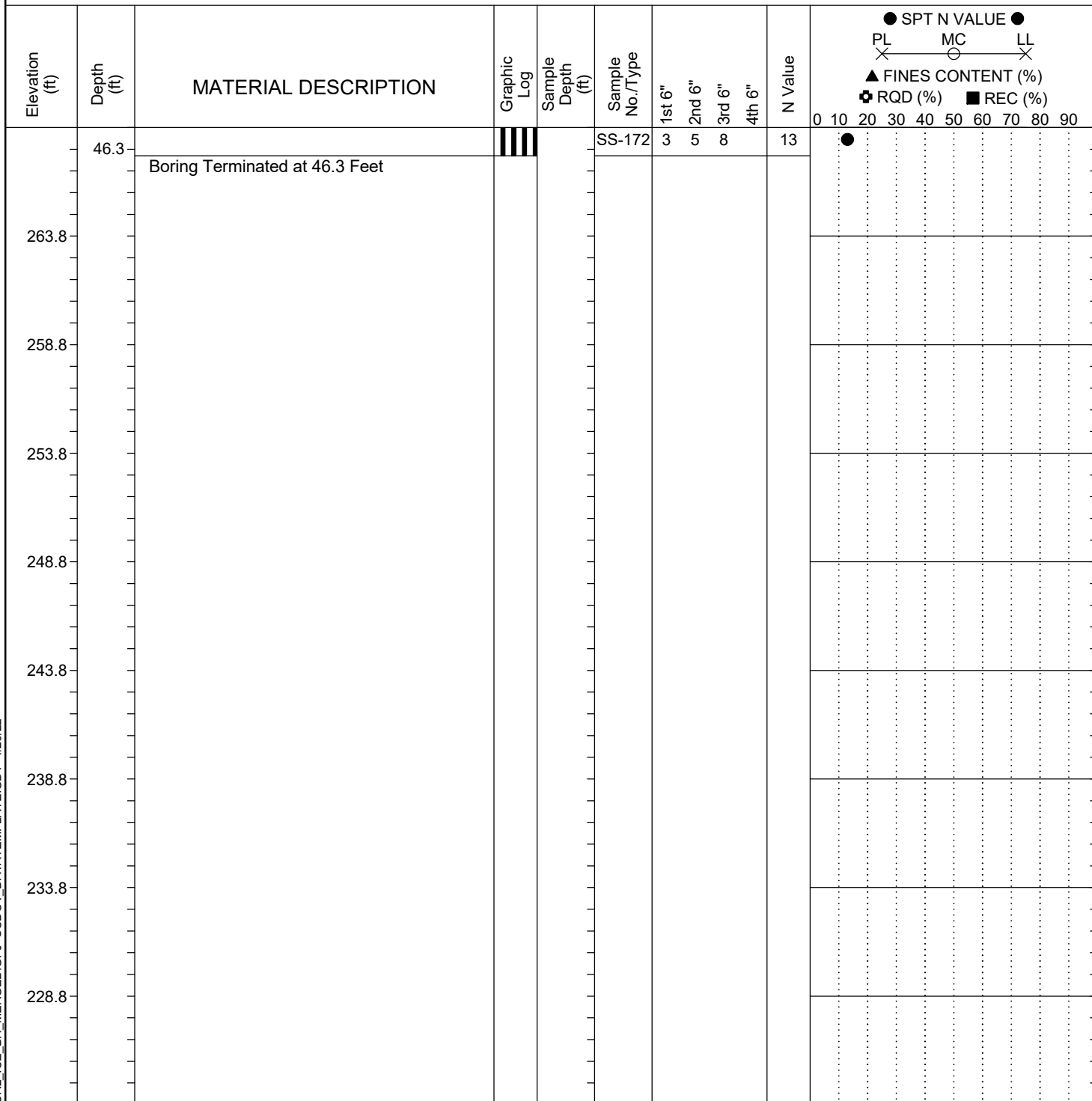


LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

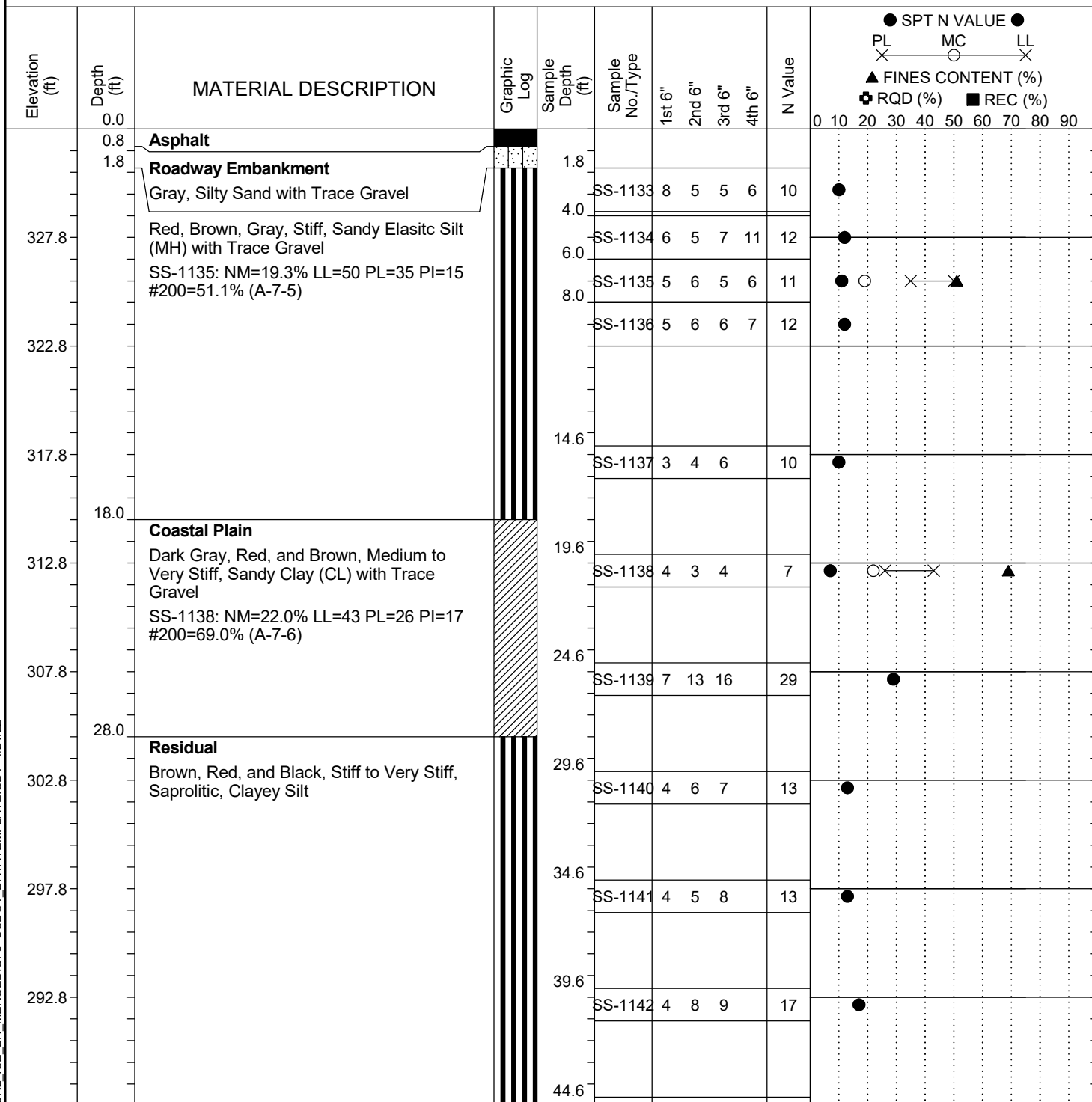
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Site Description:		Carolina Crossroads Phase 2								Route:		Broad River Rd.				
Eng./Geo.:		C. McIlroy		Boring Location:		618+50		Offset:		125 RT		Alignment:		US176WB		
Elev.:		313.8 ft		Latitude:		34.03845066		Longitude:		-81.09296078		Date Started:		3/21/2022		
Total Depth:		46.3 ft		Soil Depth:		46.3 ft		Core Depth:		N/A ft		Date Completed:		3/21/2022		
Bore Hole Diameter (in):			2.25		Sampler Configuration			Liner Required:			Y (N)		Liner Used:		Y (N)	
Drill Machine:		D-50 #435		Drill Method:		HSA		Hammer Type:		Automatic		Energy Ratio:		84.4%		
Core Size:		N/A		Driller:		M. Morgan		Groundwater:		TOB N/A		24HR		24 ft		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-085
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Akland	Boring Location:	618+51	Offset:	49 RT
Elev.:	332.8 ft	Latitude:	34.03859847	Longitude:	-81.09278347
Total Depth:	46.1 ft	Soil Depth:	46.1 ft	Date Started:	3/29/2022
Core Depth:	N/A ft	Date Completed:	3/29/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB 10.2 ft 24HR FIAD



LEGEND

Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

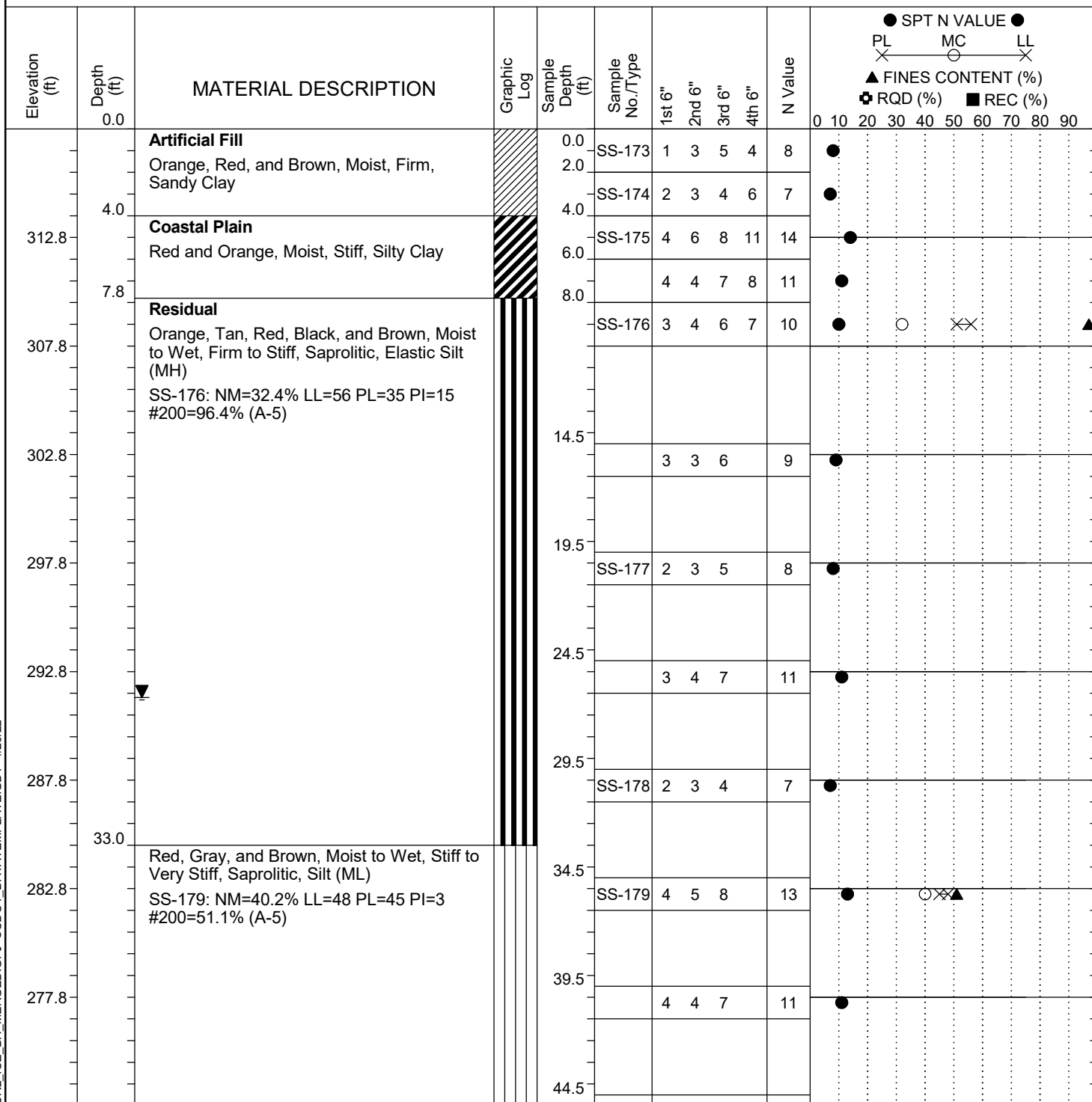
Project ID:			P039719			County:		Richland		Boring No.:		G-085								
Site Description:			Carolina Crossroads Phase 2								Route:		Broad River Rd.							
Eng./Geo.:		M. Akland		Boring Location:		618+51		Offset:		49 RT		Alignment:		US176WB						
Elev.:		332.8 ft		Latitude:		34.03859847		Longitude:		-81.09278347		Date Started:		3/29/2022						
Total Depth:		46.1 ft		Soil Depth:		46.1 ft		Core Depth:		N/A ft		Date Completed:		3/29/2022						
Bore Hole Diameter (in):			2.25		Sampler Configuration			Liner Required:			Y		Ⓝ		Liner Used:		Y		Ⓝ	
Drill Machine:		D-50 #439		Drill Method:		RW		Hammer Type:		Automatic		Energy Ratio:		90.8%						
Core Size:		N/A		Driller:		R. Cassell		Groundwater:		TOB		10.2 ft		24HR		FIAD				

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	<div> ● SPT N VALUE ● PL X MC LL X ▲ FINES CONTENT (%) + RQD (%) ■ REC (%) </div>
	46.1	Boring Terminated at 46.1 Feet			SS-1143	4	4	7		11	<div> 0 10 20 30 40 50 60 70 80 90 </div>
282.8											
277.8											
272.8											
267.8											
262.8											
257.8											
252.8											
247.8											

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-086
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	619+00	Offset:	120 RT
Elev.:	317.8 ft	Latitude:	34.03836626	Longitude:	-81.09283392
Date Started:	3/21/2022				
Total Depth:	46 ft	Soil Depth:	46 ft	Core Depth:	N/A ft
Date Completed:	3/21/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Liner Used:	Y (N)				
Drill Machine:	D-50 #435	Drill Method:	HSA	Hammer Type:	Automatic
Energy Ratio:	84.4%				
Core Size:	N/A	Driller:	M. Morgan	Groundwater:	TOB N/A
24HR	26.2 ft				

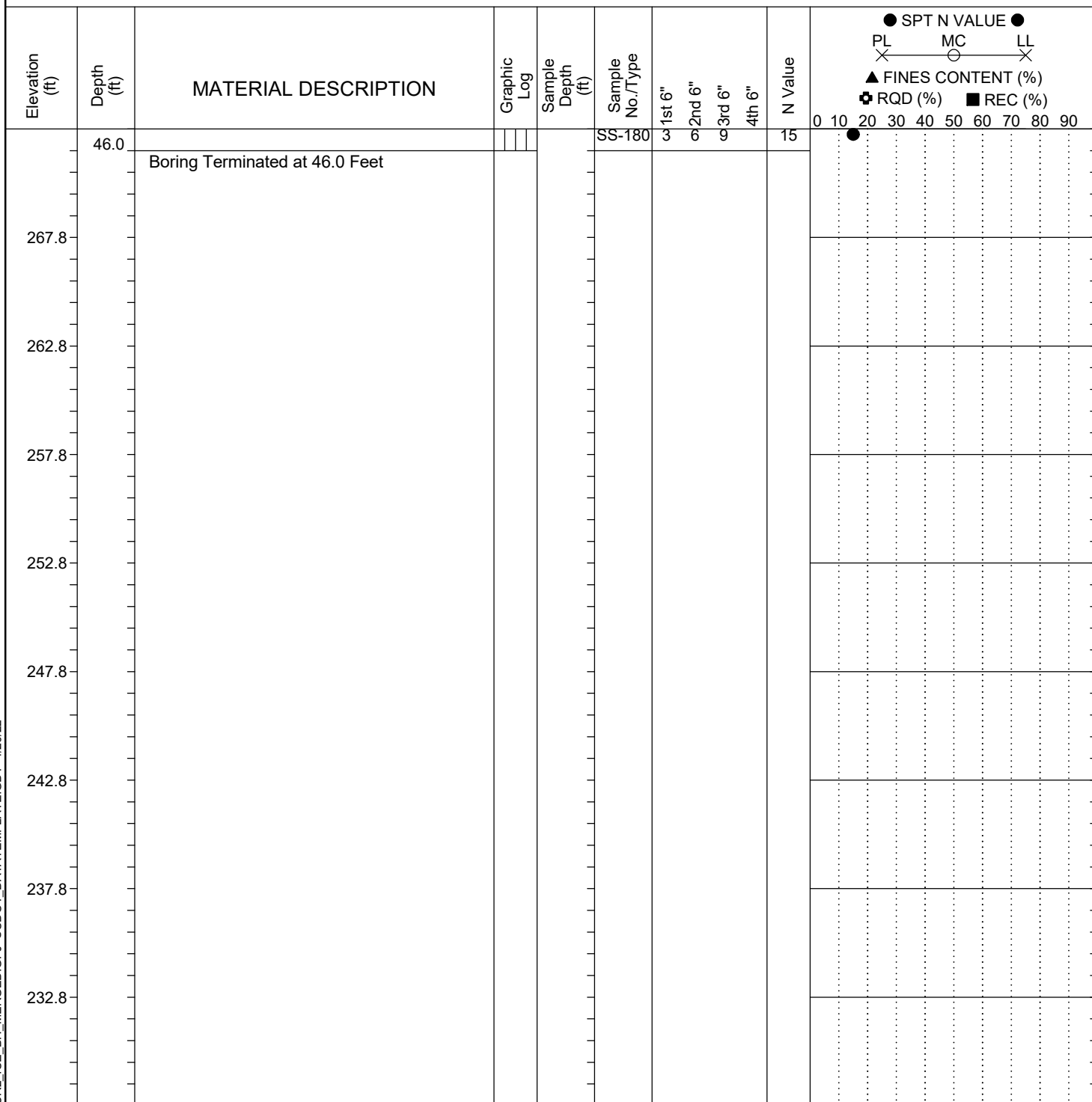


LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

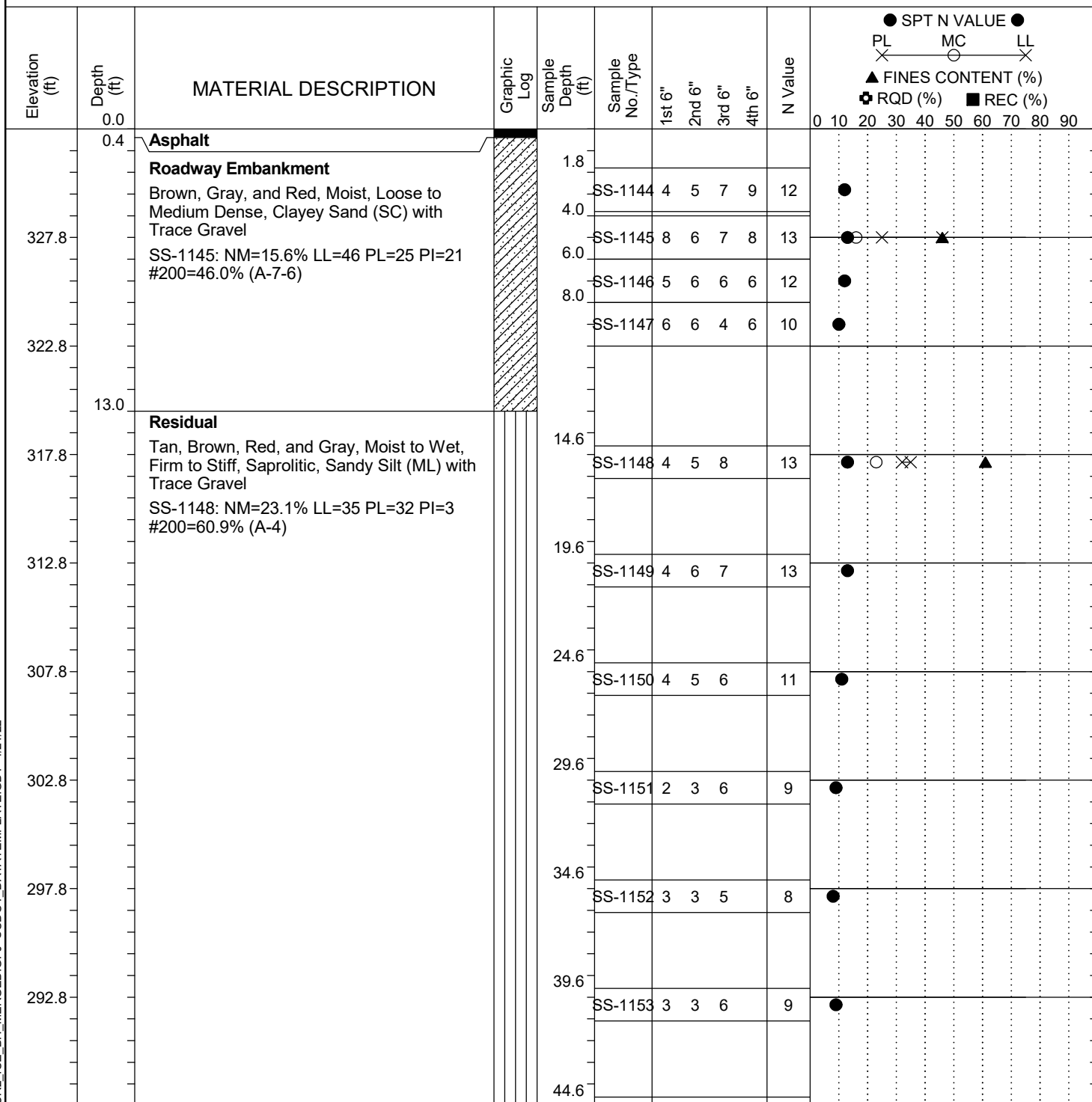
Project ID:		P039719			County:		Richland		Boring No.:		G-086					
Site Description:		Carolina Crossroads Phase 2								Route:		Broad River Rd.				
Eng./Geo.:		C. McIlroy		Boring Location:		619+00		Offset:		120 RT		Alignment:		US176WB		
Elev.:		317.8 ft		Latitude:		34.03836626		Longitude:		-81.09283392		Date Started:		3/21/2022		
Total Depth:		46 ft		Soil Depth:		46 ft		Core Depth:		N/A ft		Date Completed:		3/21/2022		
Bore Hole Diameter (in):			2.25		Sampler Configuration			Liner Required:			Y (N)		Liner Used:		Y (N)	
Drill Machine:		D-50 #435		Drill Method:		HSA		Hammer Type:		Automatic		Energy Ratio:		84.4%		
Core Size:		N/A		Driller:		M. Morgan		Groundwater:		TOB N/A		24HR		26.2 ft		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-087
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Akland	Boring Location:	618+77	Offset:	46 RT
Elev.:	332.8 ft	Latitude:	34.03855482	Longitude:	-81.09271568
Total Depth:	46.1 ft	Soil Depth:	46.1 ft	Date Started:	3/29/2022
Core Depth:	N/A ft	Date Completed:	3/29/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	14.1 ft	24HR FIAD



LEGEND

Continued Next Page

SC_DOT 20-81_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 4/21/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

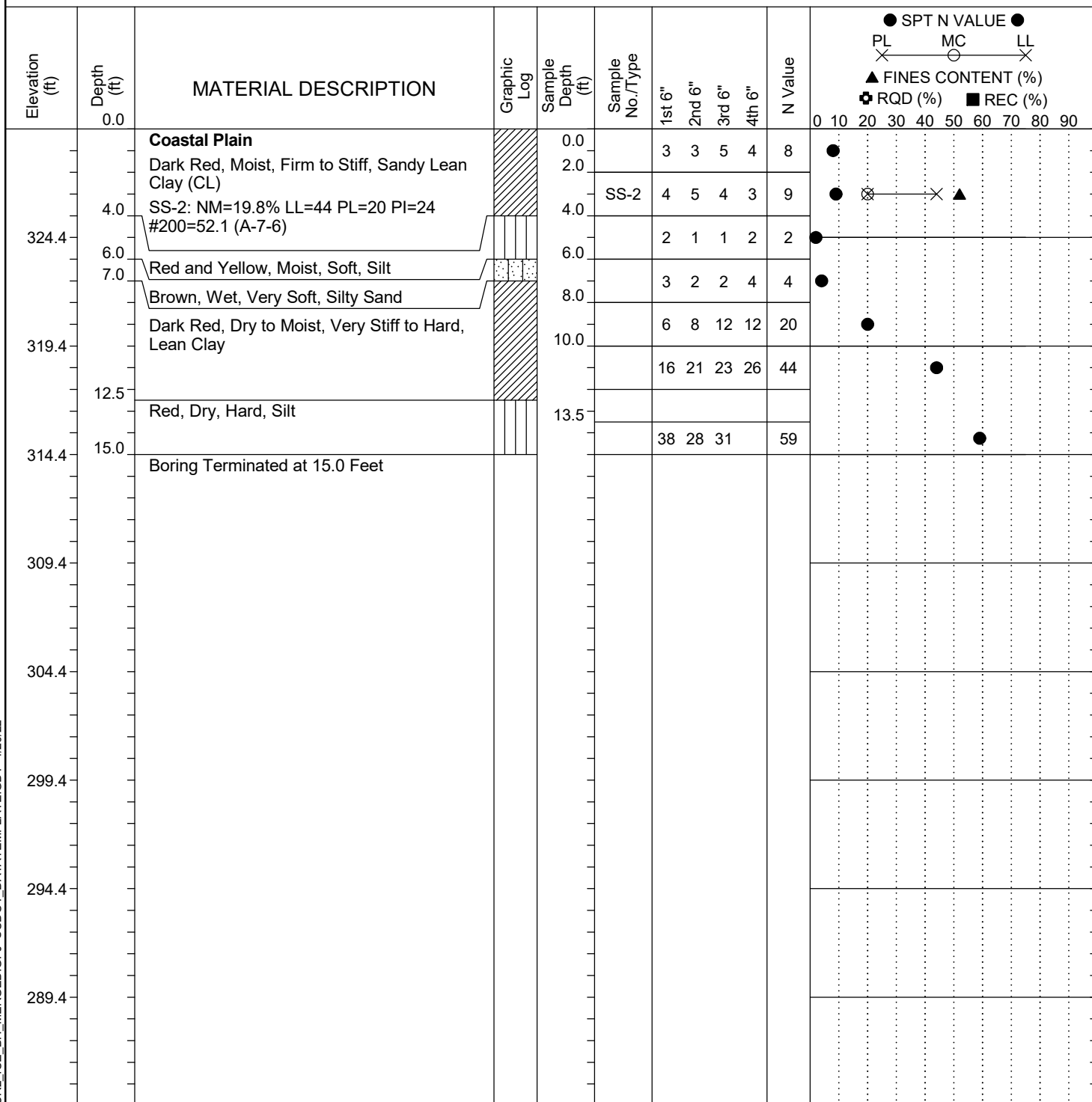
Project ID: P039719			County: Richland		Boring No.: G-087		
Site Description:		Carolina Crossroads Phase 2				Route:	Broad River Rd.
Eng./Geo.: M. Akland		Boring Location: 618+77		Offset:	46 RT	Alignment:	US176WB
Elev.: 332.8 ft	Latitude: 34.03855482	Longitude: -81.09271568		Date Started:		3/29/2022	
Total Depth: 46.1 ft	Soil Depth: 46.1 ft	Core Depth: N/A ft		Date Completed:		3/29/2022	
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)	
Drill Machine: D-50 #439	Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 90.8%		
Core Size: N/A	Driller: R. Cassell		Groundwater: TOB	14.1 ft		24HR	FIAD

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	● SPT N VALUE ● PL X — MC — LL X ▲ FINES CONTENT (%) + RQD (%) ■ REC (%) 0 10 20 30 40 50 60 70 80 90
46.1	46.1	Boring Terminated at 46.1 Feet			SS-1154	2	4	6		10	●
282.8											
277.8											
272.8											
267.8											
262.8											
257.8											
252.8											
247.8											

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

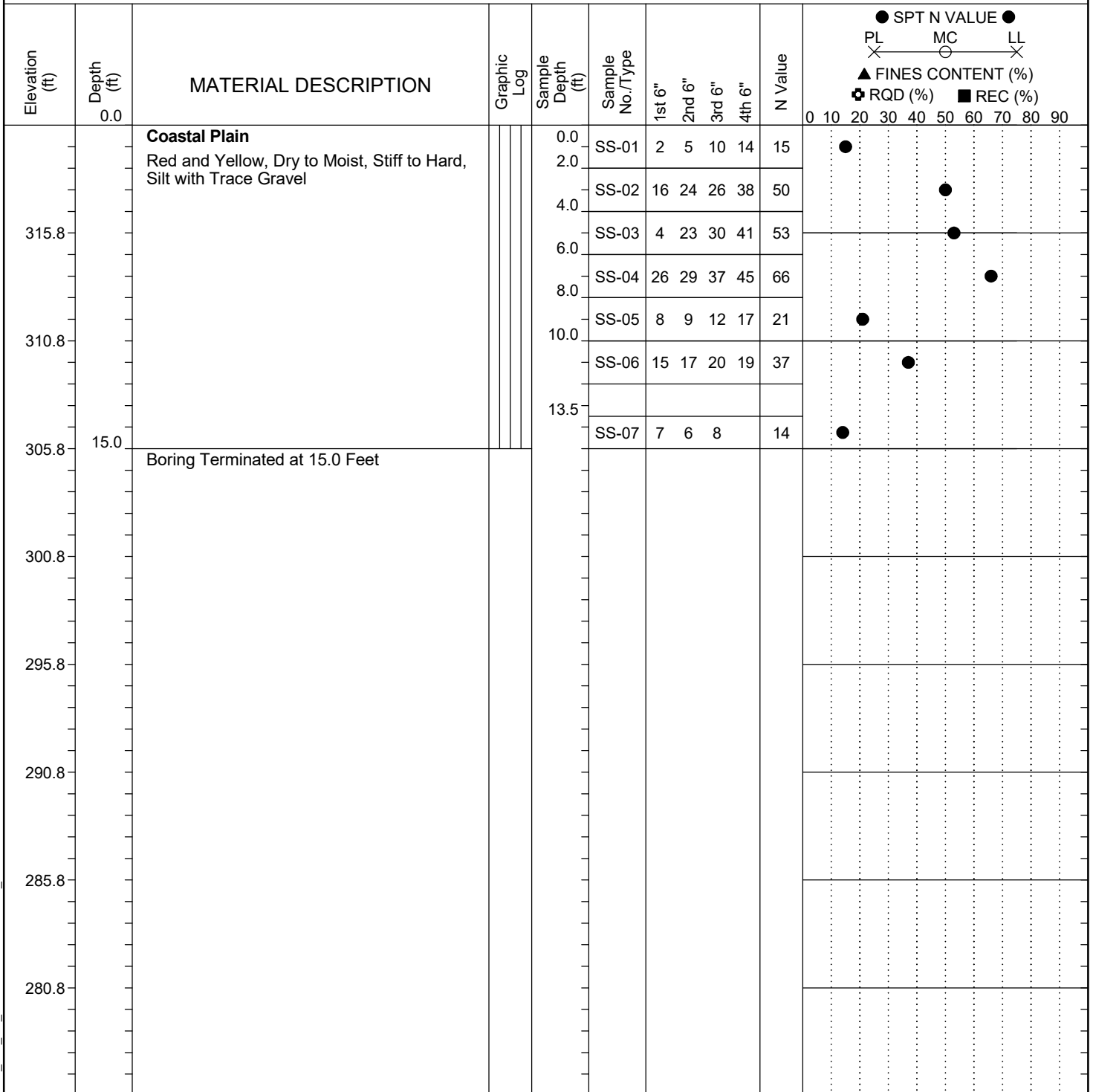
Project ID:	P039719	County:	Richland	Boring No.:	G-088
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	O. Daynes	Boring Location:	623+00	Offset:	40 LT
Elev.:	329.4 ft	Latitude:	34.03789924	Longitude:	-81.09152974
Date Started:	3/2/2022				
Total Depth:	15 ft	Soil Depth:	15 ft	Core Depth:	N/A ft
Date Completed:	3/2/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Liner Used:	Y (N)				
Drill Machine:	CME-45B #31	Drill Method:	HSA	Hammer Type:	Automatic
Energy Ratio:	86%				
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
24HR:	Dry				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

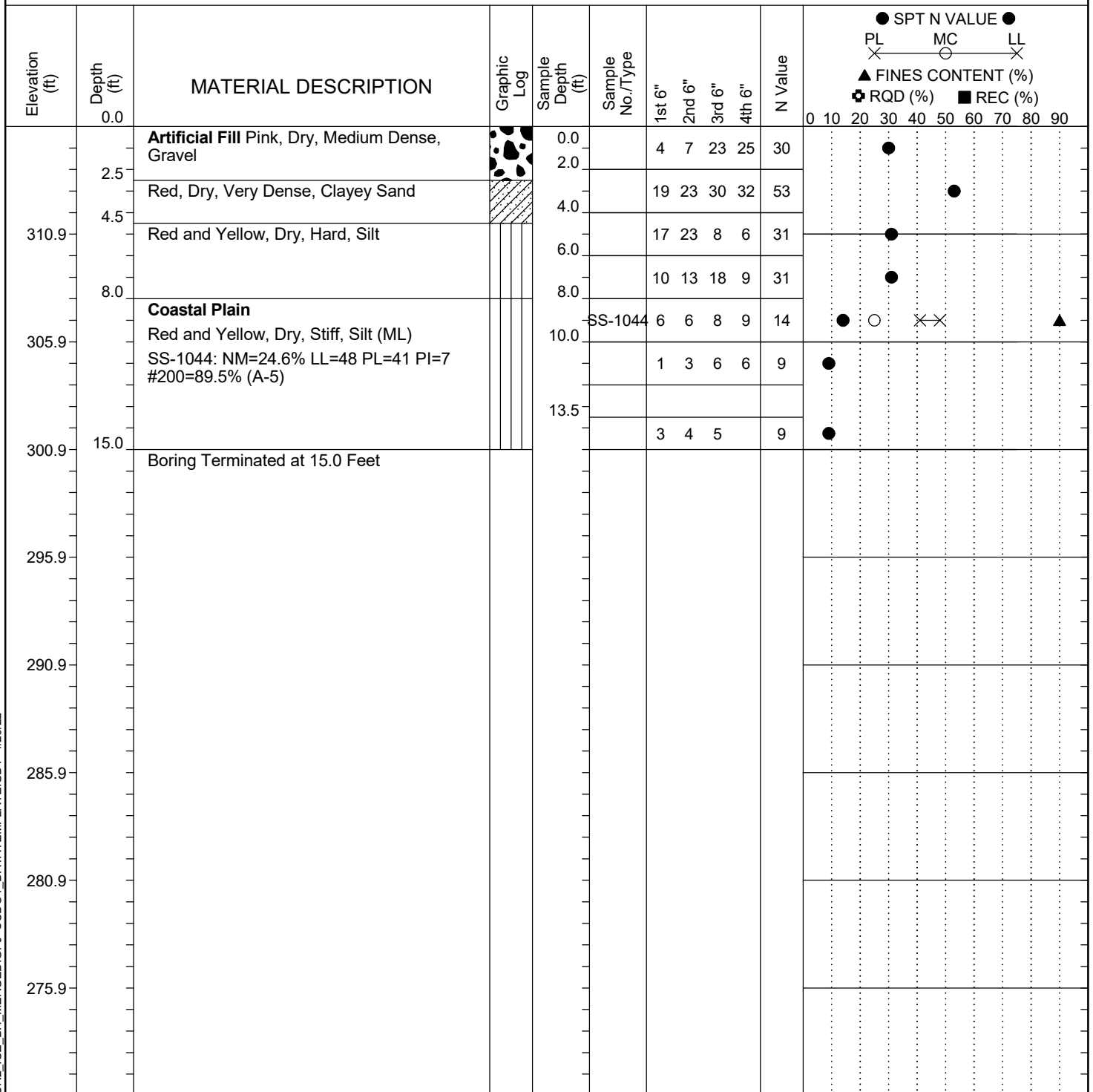
Project ID:	P039719	County:	Richland	Boring No.:	G-090
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	O. Daynes	Boring Location:	206+00	Offset:	45 LT
Elev.:	320.8 ft	Latitude:	34.04047851	Longitude:	-81.0931855
Total Depth:	15 ft	Soil Depth:	15 ft	Core Depth:	N/A ft
Date Started:	2/7/2022				
Date Completed:	2/7/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #071	Drill Method:	HSA	Hammer Type:	Automatic
Energy Ratio:	95.1%				
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
24HR	Dry				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

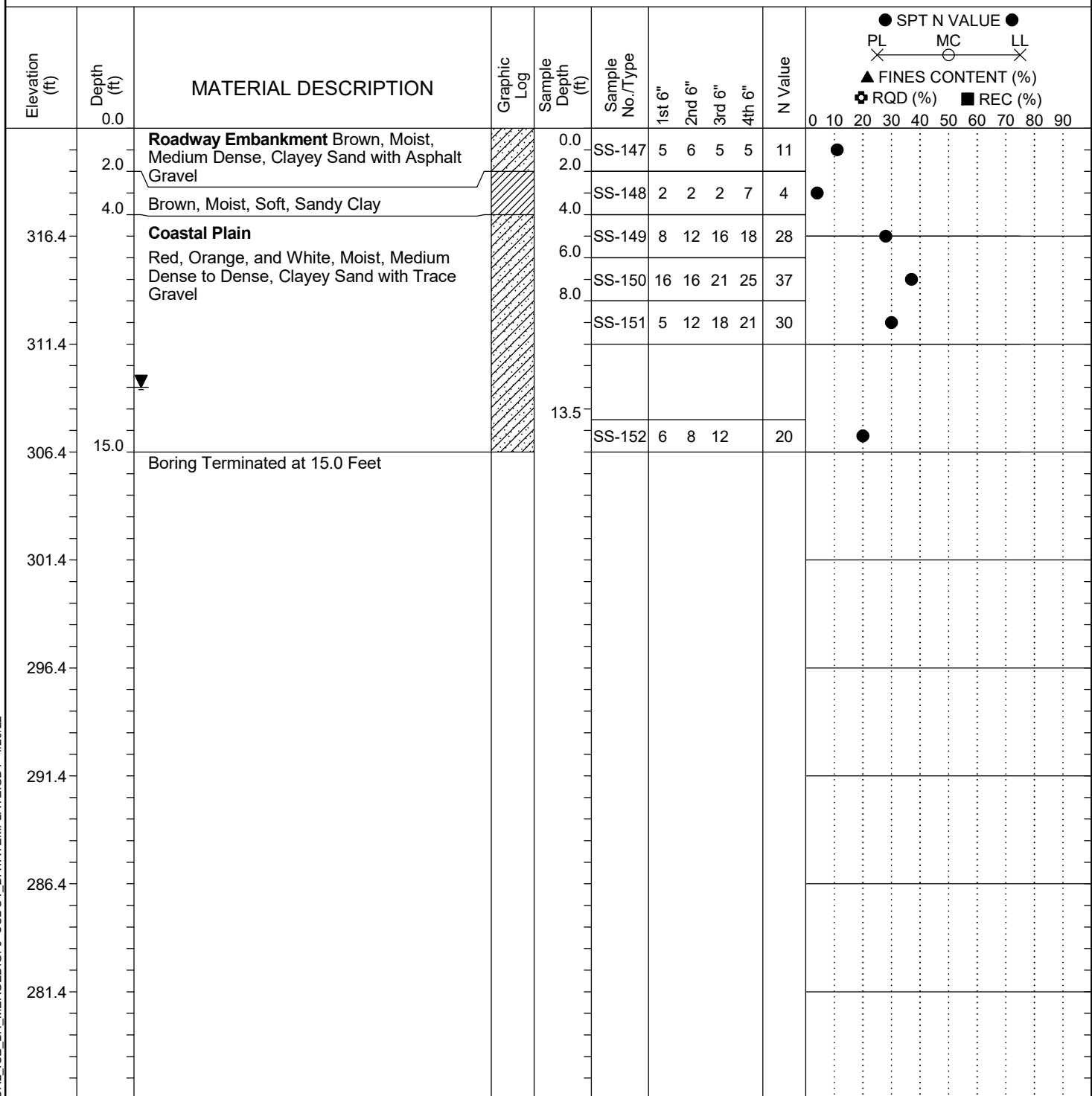
Project ID: P039719				County: Richland		Boring No.: G-091				
Site Description:		Carolina Crossroads Phase 2					Route:	Ramp		
Eng./Geo.: T. Park		Boring Location:		209+00		Offset:	50 LT	Alignment:	RAMPE	
Elev.:	315.9 ft	Latitude:	34.04071511	Longitude:	-81.09224764	Date Started:		2/11/2022		
Total Depth:		15 ft	Soil Depth:	15 ft	Core Depth:	N/A ft	Date Completed:		2/11/2022	
Bore Hole Diameter (in):		2.25	Sampler Configuration		Liner Required:		Y (N)	Liner Used:	Y (N)	
Drill Machine:		D-50 #071	Drill Method:		HSA	Hammer Type:		Automatic	Energy Ratio:	95.1%
Core Size:		N/A	Driller:	A. Fowler		Groundwater:	TOB	Dry	24HR	Dry



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

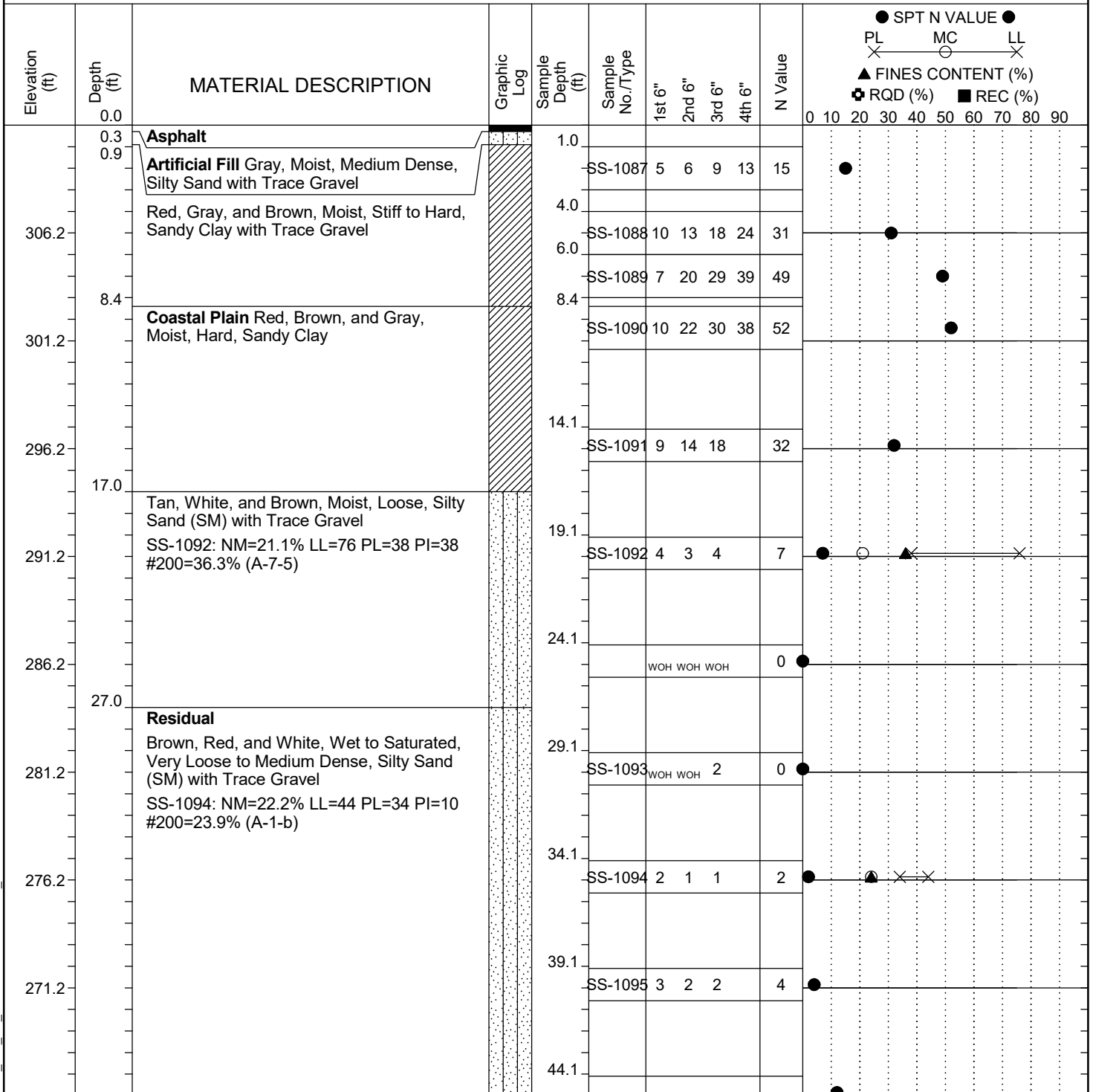
Project ID:	P039719	County:	Richland	Boring No.:	G-092
Site Description:	Carolina Crossroads Phase 2			Route:	N/A
Eng./Geo.:	C. Stephens	Boring Location:	205+00	Offset:	0 RT
Elev.:	321.4 ft	Latitude:	34.04021811	Longitude:	-81.09342471
Date Started:	2/17/2022				
Total Depth:	15 ft	Soil Depth:	15 ft	Core Depth:	N/A ft
Date Completed:	2/17/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB 2.7 ft
24HR	12 ft				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-093
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Akland	Boring Location:	408+53	Offset:	52 RT
Elev.:	311.2 ft	Latitude:	34.0403517	Longitude:	-81.09543078
Total Depth:	45.6 ft	Soil Depth:	45.6 ft	Date Started:	3/23/2022
Core Depth:	N/A ft	Date Completed:	3/23/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	P. Mattis	Groundwater:	TOB 17.8 ft
				24HR	FIAD



LEGEND

Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

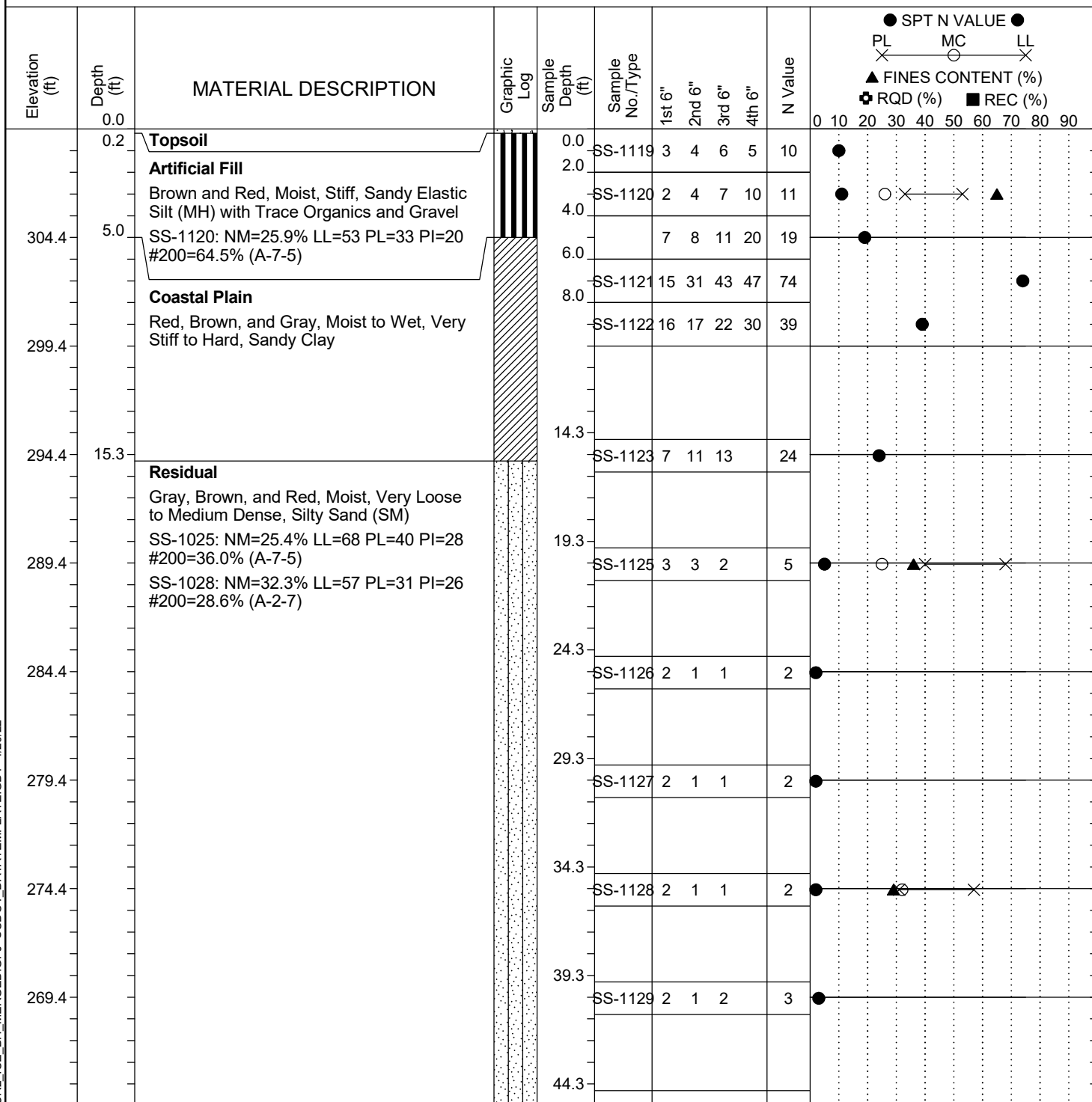
Project ID:		P039719			County:		Richland		Boring No.:		G-093					
Site Description:		Carolina Crossroads Phase 2								Route:		Broad River Rd.				
Eng./Geo.:		M. Akland		Boring Location:		408+53		Offset:		52 RT		Alignment:		US176EB		
Elev.:		311.2 ft		Latitude:		34.0403517		Longitude:		-81.09543078		Date Started:		3/23/2022		
Total Depth:		45.6 ft		Soil Depth:		45.6 ft		Core Depth:		N/A ft		Date Completed:		3/23/2022		
Bore Hole Diameter (in):			2.25		Sampler Configuration			Liner Required:			Y (N)		Liner Used:		Y (N)	
Drill Machine:		D-50 #439		Drill Method:		RW		Hammer Type:		Automatic		Energy Ratio:		90.8%		
Core Size:		N/A		Driller:		P. Mattis		Groundwater:		TOB 17.8 ft		24HR		FIAD		

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	● SPT N VALUE ● PL MC LL X ——— X ▲ FINES CONTENT (%) + RQD (%) ■ REC (%) 0 10 20 30 40 50 60 70 80 90
	45.6	Boring Terminated at 45.6 Feet			SS-1096	3	5	7		12	
261.2											
256.2											
251.2											
246.2											
241.2											
236.2											
231.2											
226.2											

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:		P039719			County:		Richland		Boring No.:		G-094					
Site Description:		Carolina Crossroads Phase 2								Route:		Broad River Rd.				
Eng./Geo.:		M. Akland		Boring Location:		409+23		Offset:		60 RT		Alignment:		US176EB		
Elev.:		309.4 ft		Latitude:		34.04015612		Longitude:		-81.09534814		Date Started:		3/25/2022		
Total Depth:		55.8 ft		Soil Depth:		55.8 ft		Core Depth:		N/A ft		Date Completed:		3/25/2022		
Bore Hole Diameter (in):			2.25		Sampler Configuration			Liner Required:			Y (N)		Liner Used:		Y (N)	
Drill Machine:		D-50 #439		Drill Method:		RW		Hammer Type:		Automatic		Energy Ratio:		90.8%		
Core Size:		N/A		Driller:		P. Mattis		Groundwater:		TOB 12.8 ft		24HR		Dry		

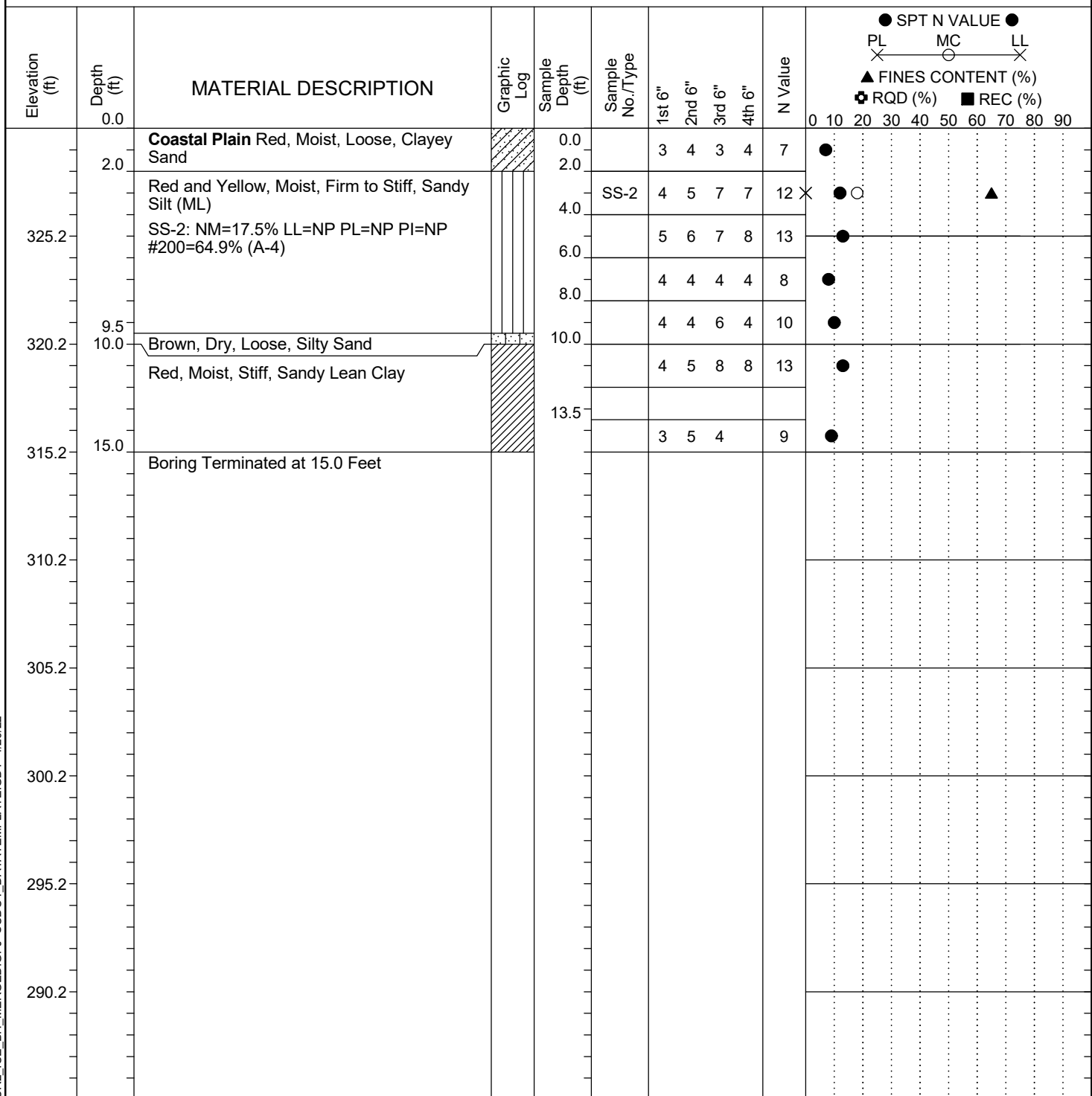


LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

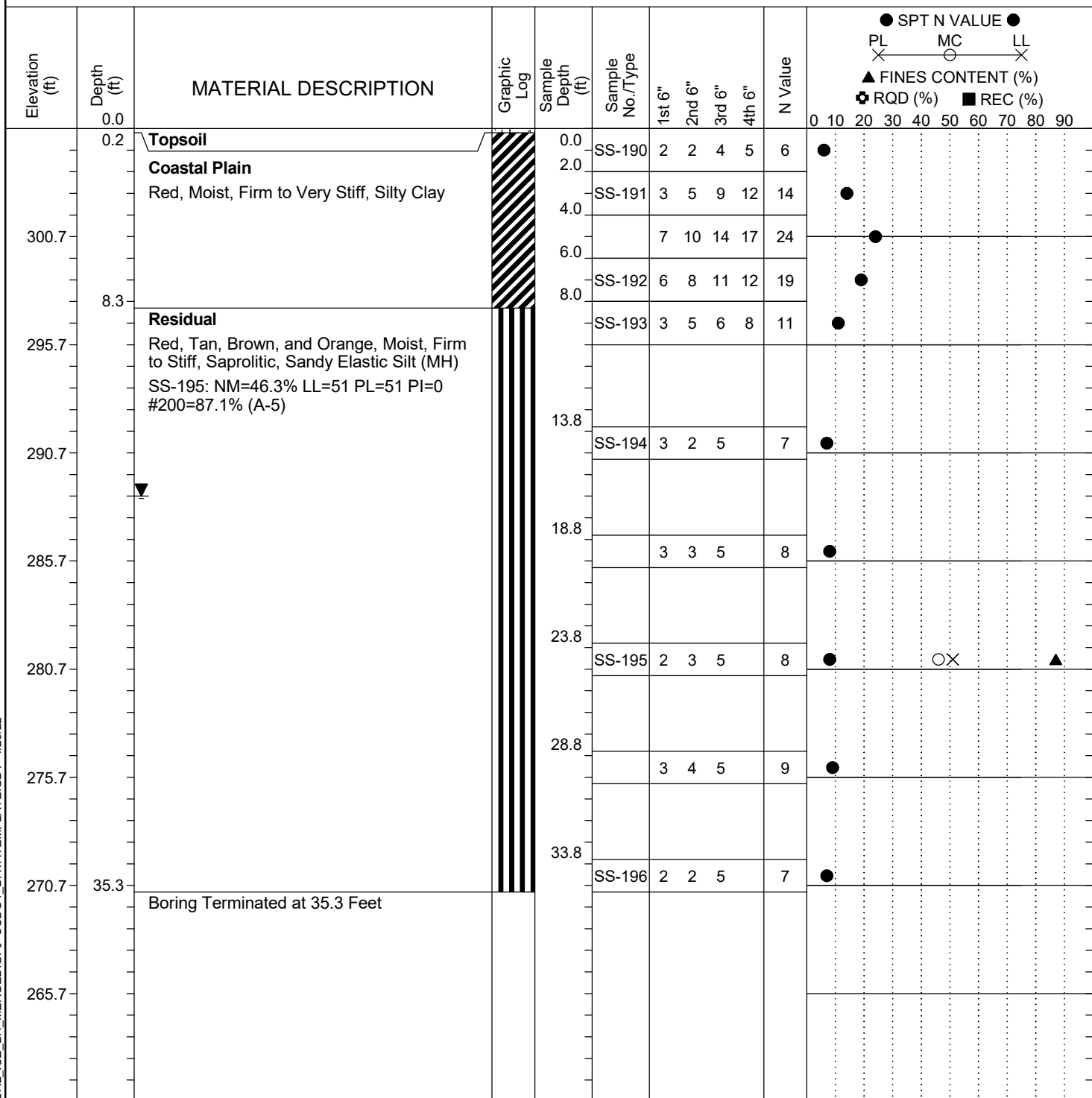
Project ID:			P039719				County:		Richland			Boring No.:		G-096					
Site Description:			Carolina Crossroads Phase 2									Route:		I-20					
Eng./Geo.:			O. Daynes		Boring Location:			204+00		Offset:		0 RT		Alignment:		I20CL			
Elev.:		330.2 ft		Latitude:		34.03881582		Longitude:		-81.09328402		Date Started:			2/28/2022				
Total Depth:		15 ft		Soil Depth:		15 ft		Core Depth:		N/A ft		Date Completed:			2/28/2022				
Bore Hole Diameter (in):				2.25		Sampler Configuration				Liner Required:		Y (N)		Liner Used:		Y (N)			
Drill Machine:		CME-45B #31			Drill Method:			HSA		Hammer Type:		Automatic			Energy Ratio:		86%		
Core Size:		N/A			Driller:		A. Fowler			Groundwater:		TOB		Dry		24HR		Dry	



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

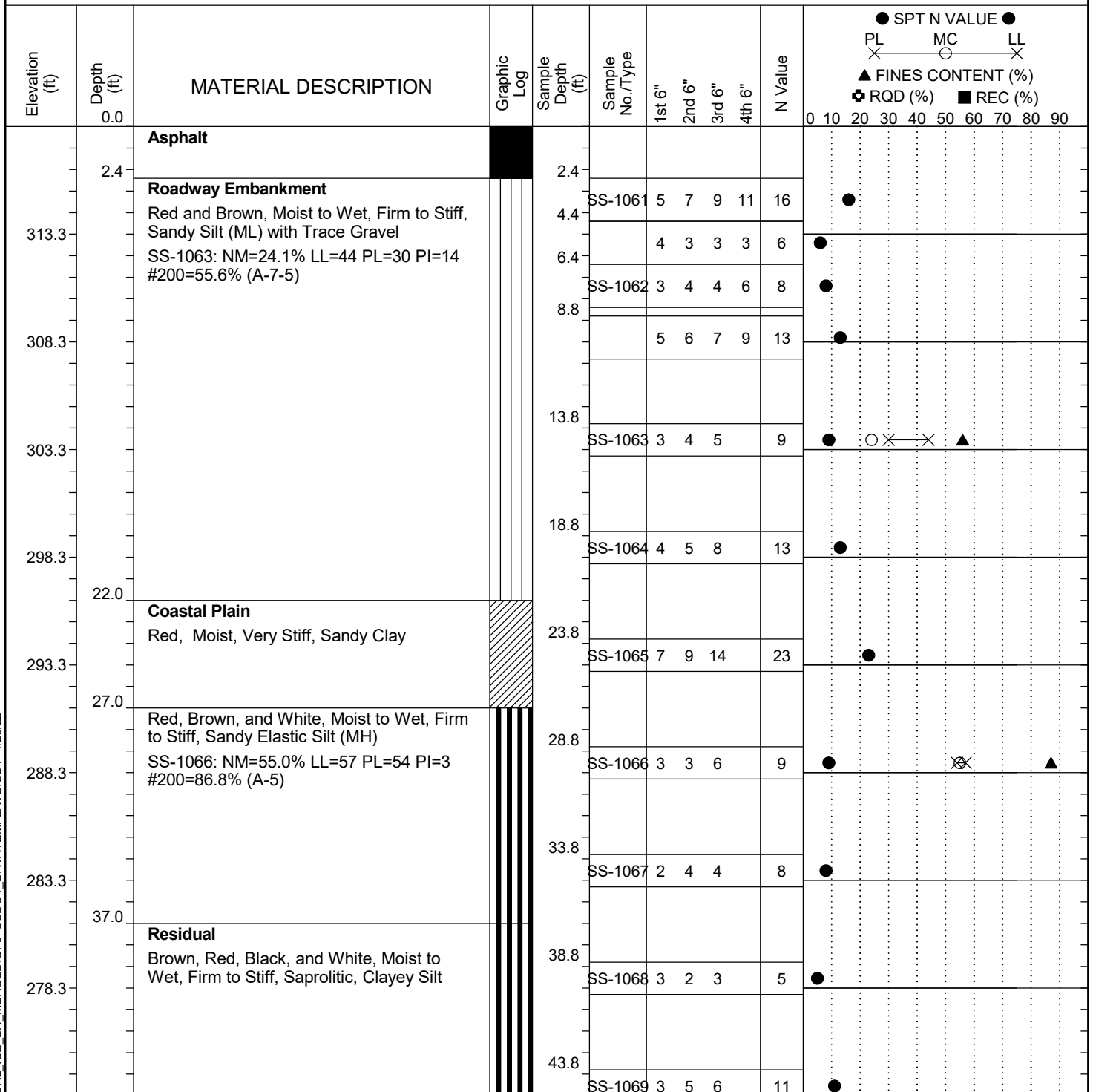
Project ID:	P039719				County:	Richland			Boring No.:	G-097			
Site Description:		Carolina Crossroads Phase 2							Route:	Ramp			
Eng./Geo.:	C. McIlroy		Boring Location:		203+00		Offset:	80 RT	Alignment:	RAMPG			
Elev.:	305.7 ft		Latitude:	34.03831359	Longitude:	-81.09347986		Date Started:		3/22/2022			
Total Depth:		35.3 ft	Soil Depth:		35.3 ft	Core Depth:		N/A ft	Date Completed:		3/22/2022		
Bore Hole Diameter (in):			2.25	Sampler Configuration			Liner Required:		Y	Ⓝ	Liner Used:	Y	Ⓝ
Drill Machine:		D-50 #435		Drill Method:		HSA		Hammer Type:		Automatic		Energy Ratio:	84.4%
Core Size:		N/A		Driller:		M. Morgan		Groundwater:		TOB	30.2 ft	24HR	17 ft



LEGEND

SAMPLER TYPE			DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"		HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings		CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube		DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-098
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	M. Akland	Boring Location:	203+79	Offset:	12 RT
Elev.:	318.3 ft	Latitude:	34.03865633	Longitude:	-81.09323884
Date Started:	3/21/2022				
Total Depth:	50.3 ft	Soil Depth:	50.3 ft	Core Depth:	N/A ft
Date Completed:	3/21/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Liner Used:	Y (N)				
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	P. Mattis	Groundwater:	TOB 18.6 ft
24HR	FIAD				

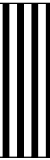


LEGEND

Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

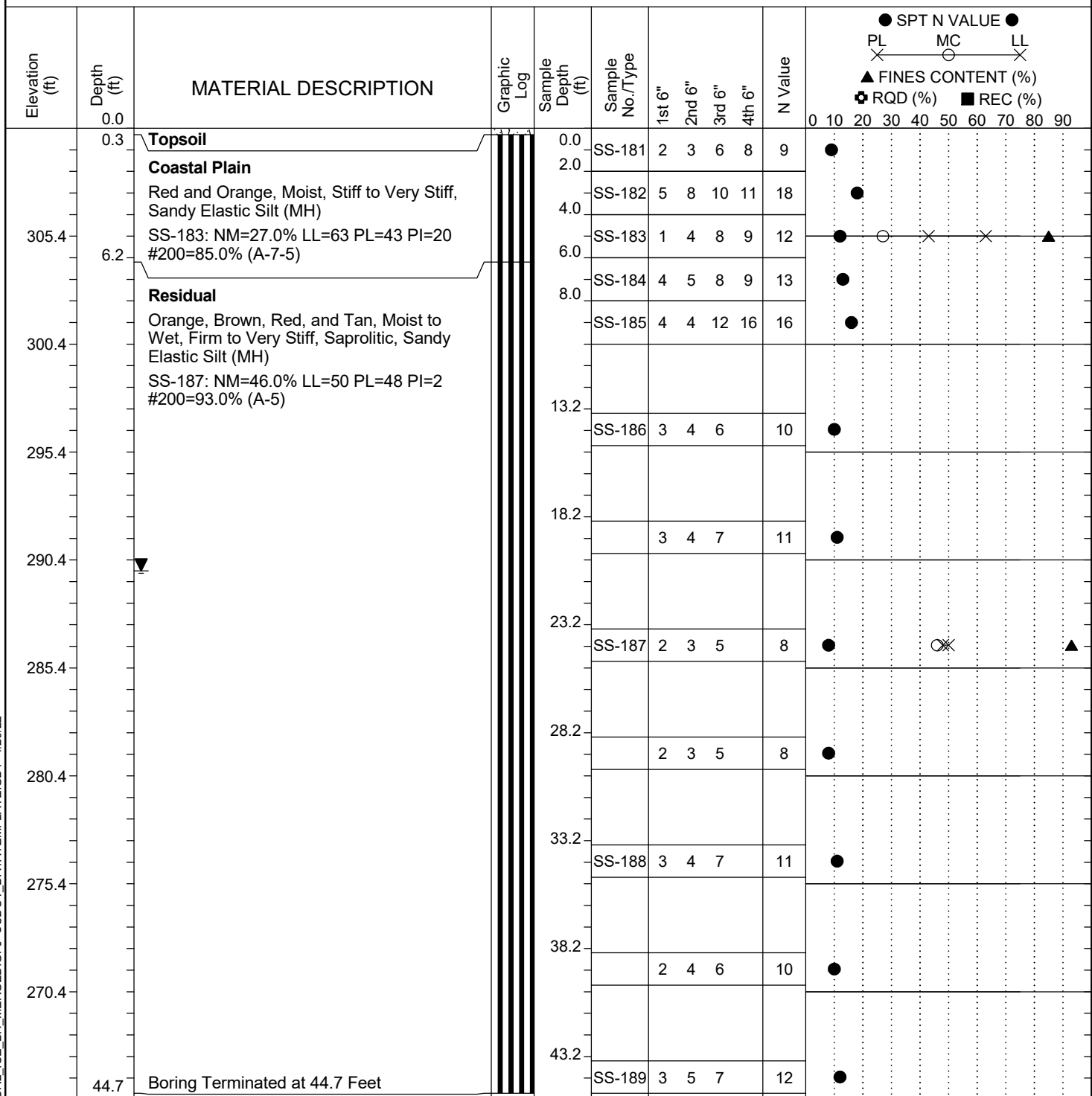
Project ID:	P039719	County:	Richland	Boring No.:	G-098
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	M. Akland	Boring Location:	203+79	Offset:	12 RT
Elev.:	318.3 ft	Latitude:	34.03865633	Longitude:	-81.09323884
Total Depth:	50.3 ft	Soil Depth:	50.3 ft	Date Started:	3/21/2022
Core Depth:	N/A ft	Date Completed:	3/21/2022	Alignment:	RAMPG
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	P. Mattis	Groundwater:	TOB 18.6 ft
				24HR	FIAD

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	● SPT N VALUE ● PL X — MC — LL X ▲ FINES CONTENT (%) + RQD (%) ■ REC (%)
268.3	50.3	Boring Terminated at 50.3 Feet		48.8	SS-1070	4	4	7		11	●
263.3											
258.3											
253.3											
248.3											
243.3											
238.3											
233.3											

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

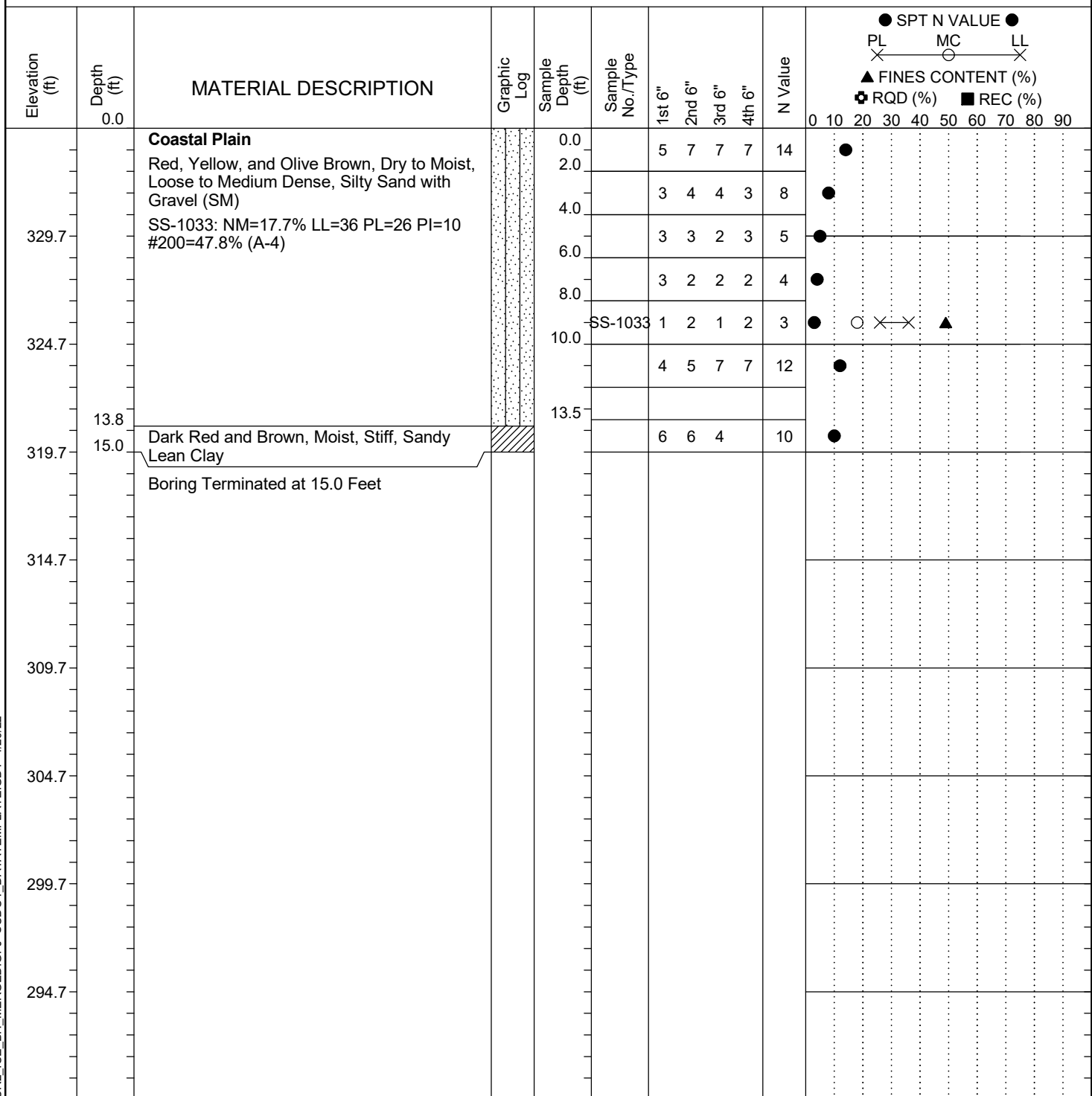
Project ID:			P039719				County:		Richland			Boring No.:		G-099			
Site Description:			Carolina Crossroads Phase 2									Route:		Ramp			
Eng./Geo.:		C. McIlroy			Boring Location:			204+00		Offset:		38 RT		Alignment:		RAMPG	
Elev.:		310.4 ft		Latitude:		34.03844228		Longitude:		-81.09315688		Date Started:			3/22/2022		
Total Depth:		44.7 ft		Soil Depth:		44.7 ft		Core Depth:		N/A ft		Date Completed:			3/22/2022		
Bore Hole Diameter (in):				2.25		Sampler Configuration				Liner Required:		Y (N)		Liner Used:		Y (N)	
Drill Machine:		D-50 #435			Drill Method:		HSA		Hammer Type:		Automatic			Energy Ratio:		84.4%	
Core Size:		N/A			Driller:		M. Morgan			Groundwater:		TOB 33.5 ft		24HR		20.5 ft	



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

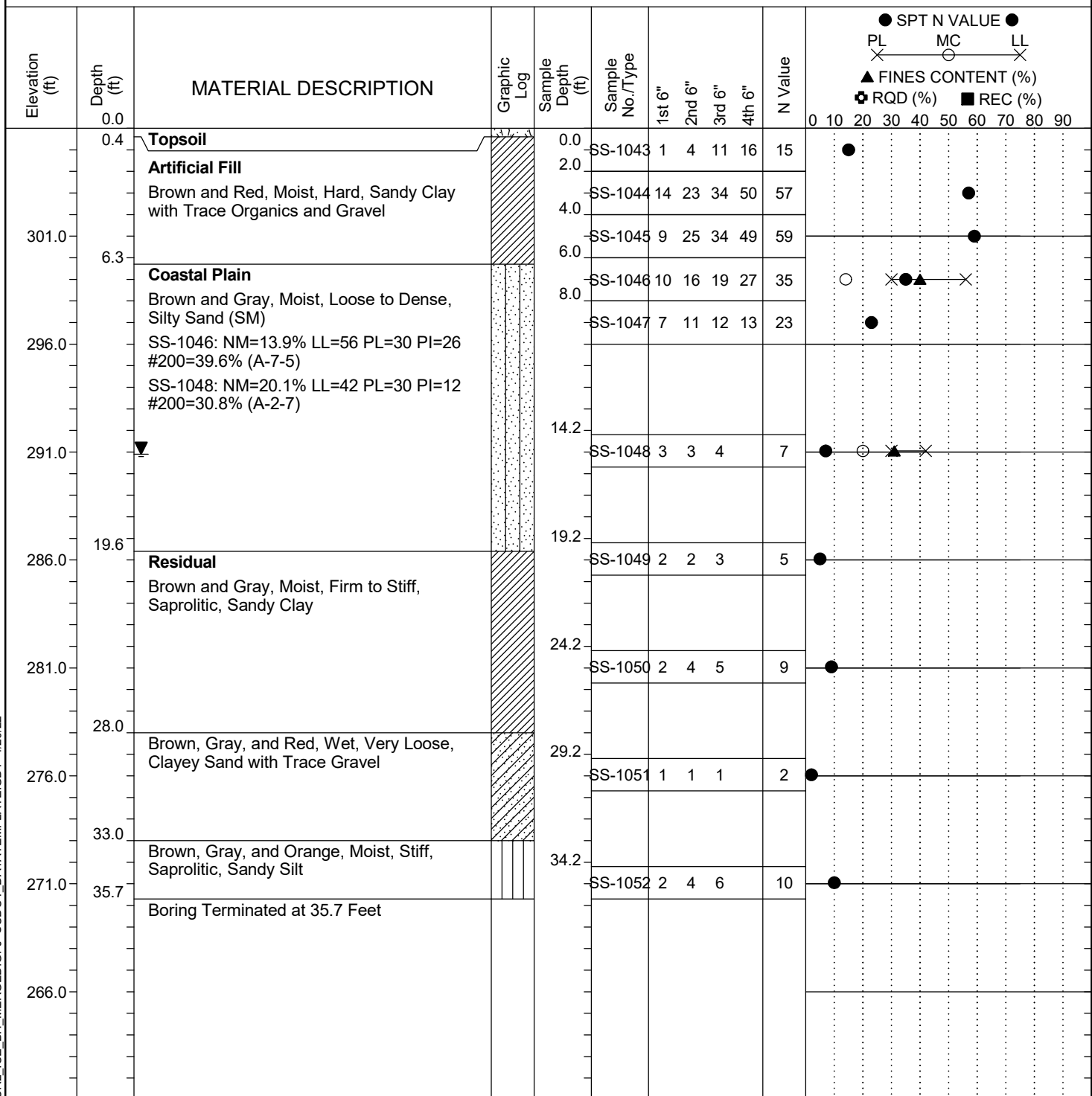
Project ID:	P039719	County:	Richland	Boring No.:	G-100
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	T. Park	Boring Location:	203+75	Offset:	0 RT
Elev.:	334.7 ft	Latitude:	34.03868652	Longitude:	-81.0925206
Total Depth:	15 ft	Soil Depth:	15 ft	Date Started:	2/10/2022
Core Depth:	N/A ft	Date Completed:	2/10/2022	Alignment:	RAMPH
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #071	Drill Method:	HSA	Liner Used:	Y (N)
Hammer Type:	Automatic	Energy Ratio:	95.1%		
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
		24HR	Dry		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

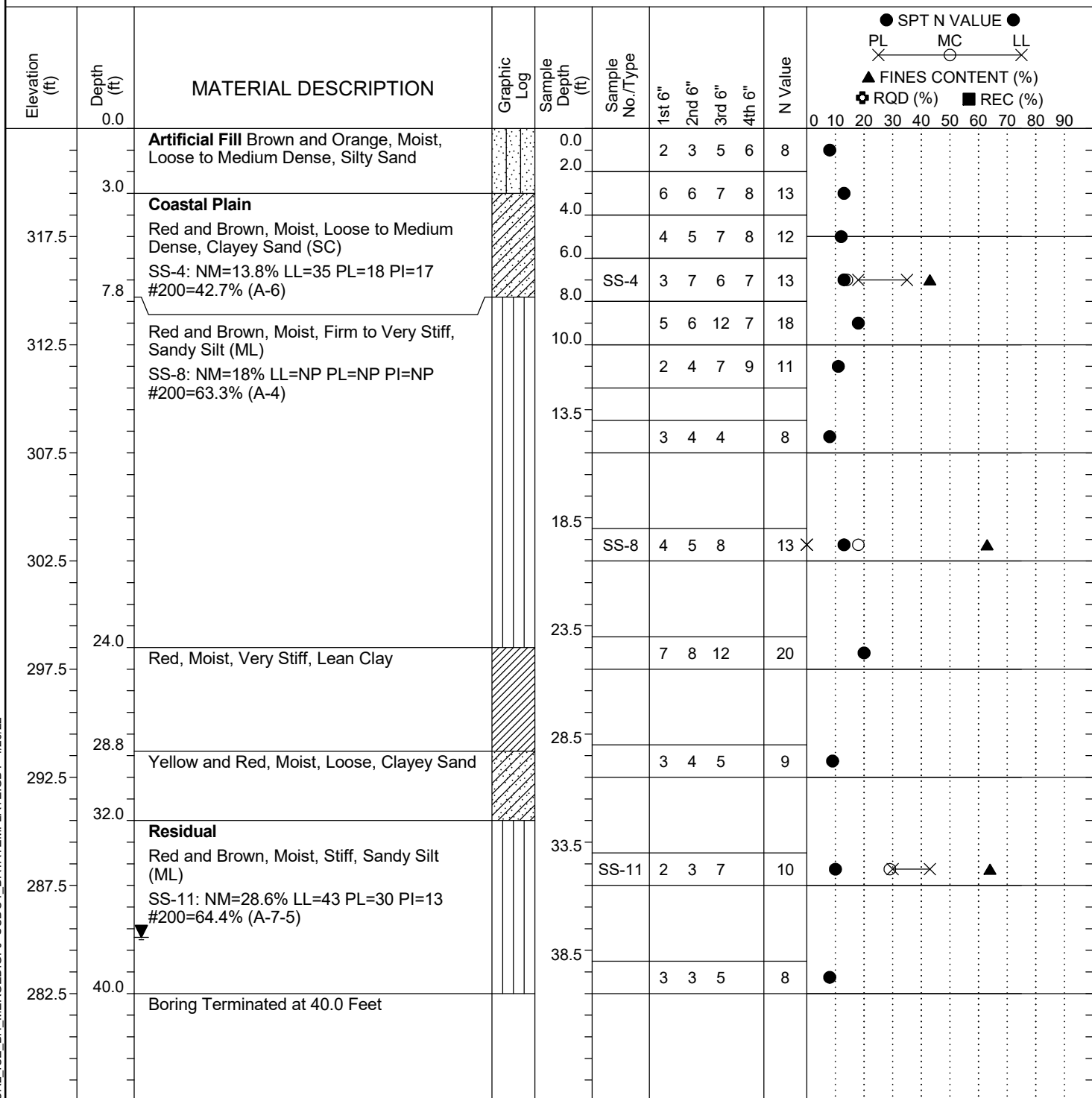
Project ID:	P039719	County:	Richland	Boring No.:	G-101
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	M. Akland	Boring Location:	194+00	Offset:	0 RT
Elev.:	306.0 ft	Latitude:	34.0392745	Longitude:	-81.09671788
Total Depth:	35.7 ft	Soil Depth:	35.7 ft	Date Started:	3/17/2022
Core Depth:	N/A ft	Date Completed:	3/17/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	15.3 ft	24HR 15.1 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

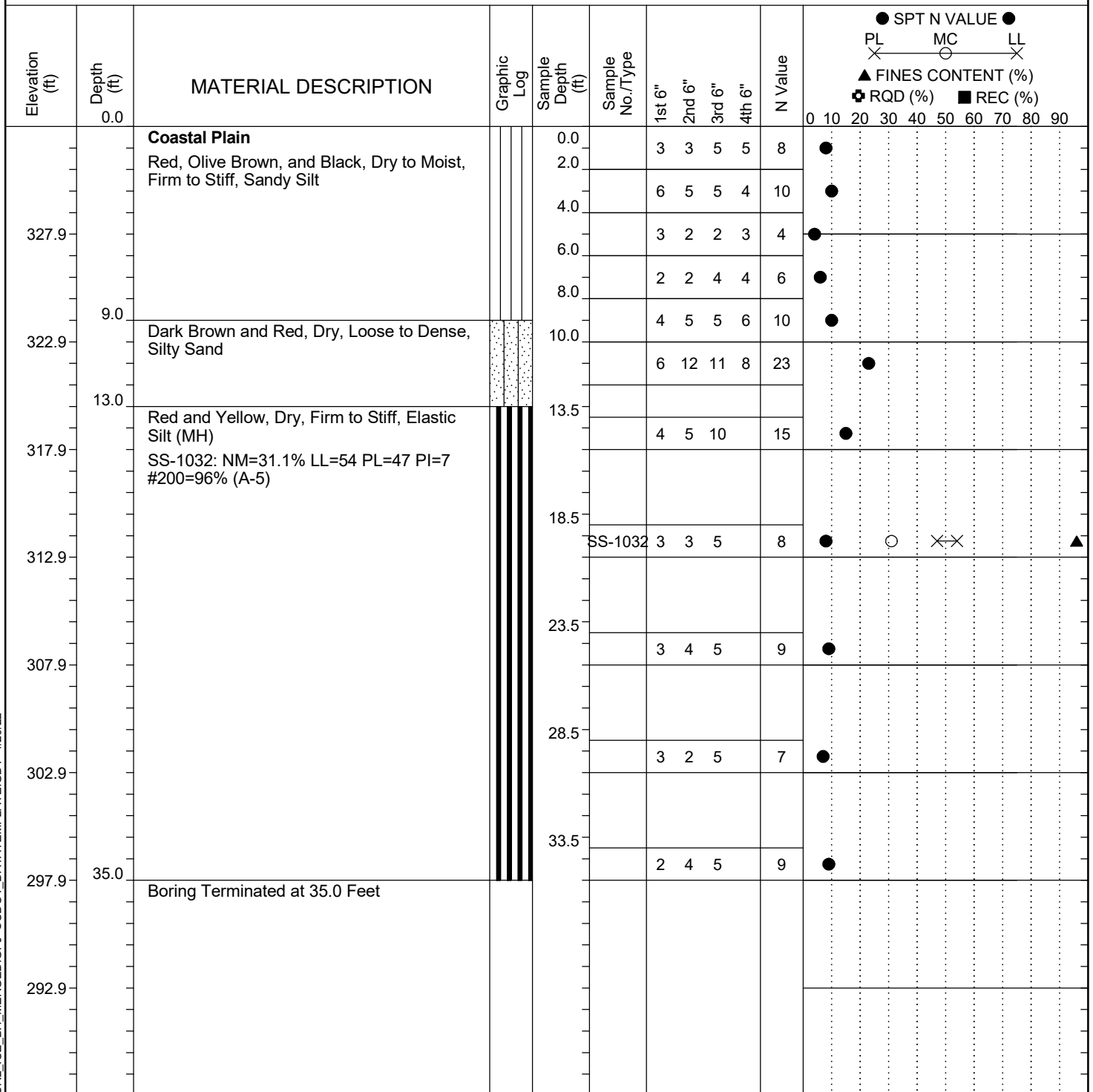
Project ID:			P039719				County:		Richland			Boring No.:		G-102			
Site Description:			Carolina Crossroads Phase 2									Route:		Ramp			
Eng./Geo.:		O. Daynes			Boring Location:			200+00		Offset:		30 LT		Alignment:		RAMPG	
Elev.:		322.5 ft		Latitude:		34.0386		Longitude:		-81.09449		Date Started:			3/1/2022		
Total Depth:		40 ft		Soil Depth:		40 ft		Core Depth:		N/A ft		Date Completed:			3/1/2022		
Bore Hole Diameter (in):				2.25		Sampler Configuration				Liner Required:		Y (N)		Liner Used:		Y (N)	
Drill Machine:		CME-45B #31			Drill Method:			HSA		Hammer Type:		Automatic		Energy Ratio:		86%	
Core Size:		N/A			Driller:		A. Fowler			Groundwater:		TOB Dry		24HR		37.4 ft	



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

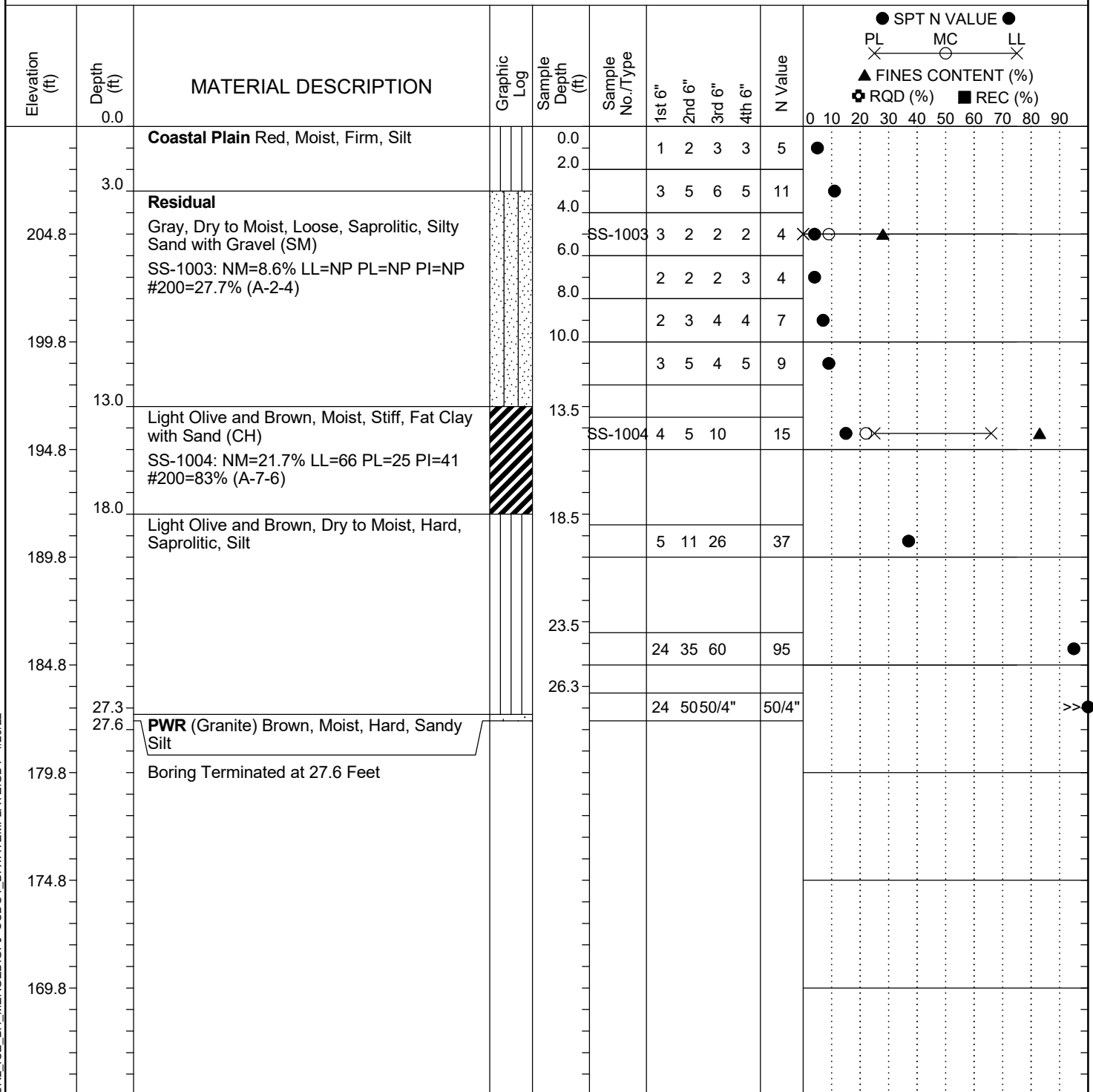
Project ID:	P039719	County:	Richland	Boring No.:	G-103
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	T. Park	Boring Location:	205+00	Offset:	0 RT
Elev.:	332.9 ft	Latitude:	34.0390159	Longitude:	-81.0926087
Total Depth:	35 ft	Soil Depth:	35 ft	Core Depth:	N/A ft
Date Started:	2/10/2022				
Date Completed:	2/10/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #071	Drill Method:	HSA	Hammer Type:	Automatic
Energy Ratio:	95.1%				
Core Size:	N/A	Driller:	A. Fowler	Groundwater:	TOB Dry
24HR:	Dry				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

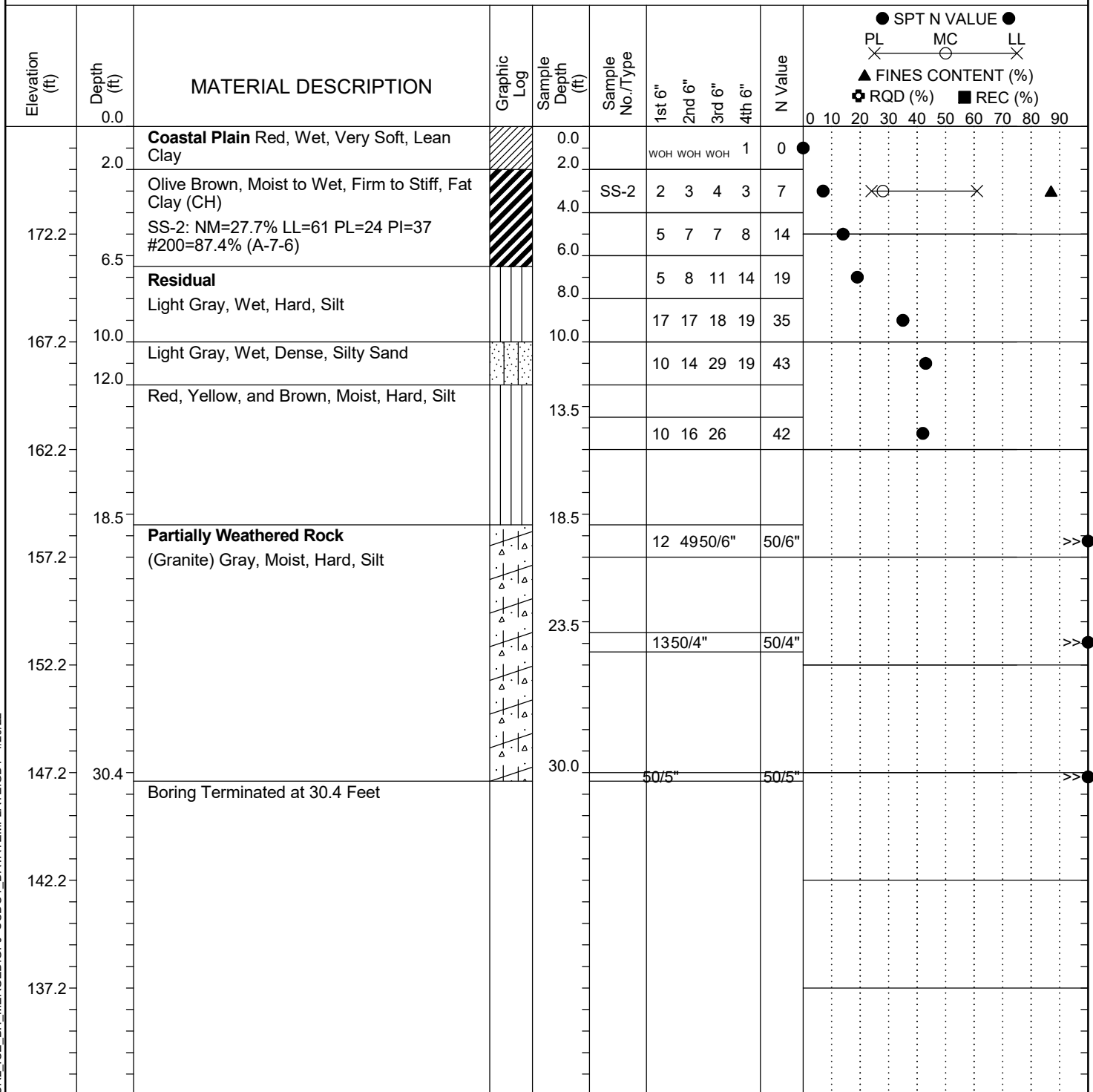
Project ID: P039719				County: Richland		Boring No.: G-104		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: O. Daynes		Boring Location: 237+00		Offset: 60 LT		Alignment: I20CL		
Elev.: 209.8 ft		Latitude: 34.04374463		Longitude: -81.08376829		Date Started: 2/18/2022		
Total Depth: 27.6 ft		Soil Depth: 27.6 ft		Core Depth: N/A ft		Date Completed: 2/18/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31		Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%		
Core Size: N/A		Driller: A. Fowler		Groundwater: TOB Dry		24HR NM		



LEGEND

SAMPLER TYPE			DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"		HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings		CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube		DC - Driving Casing	

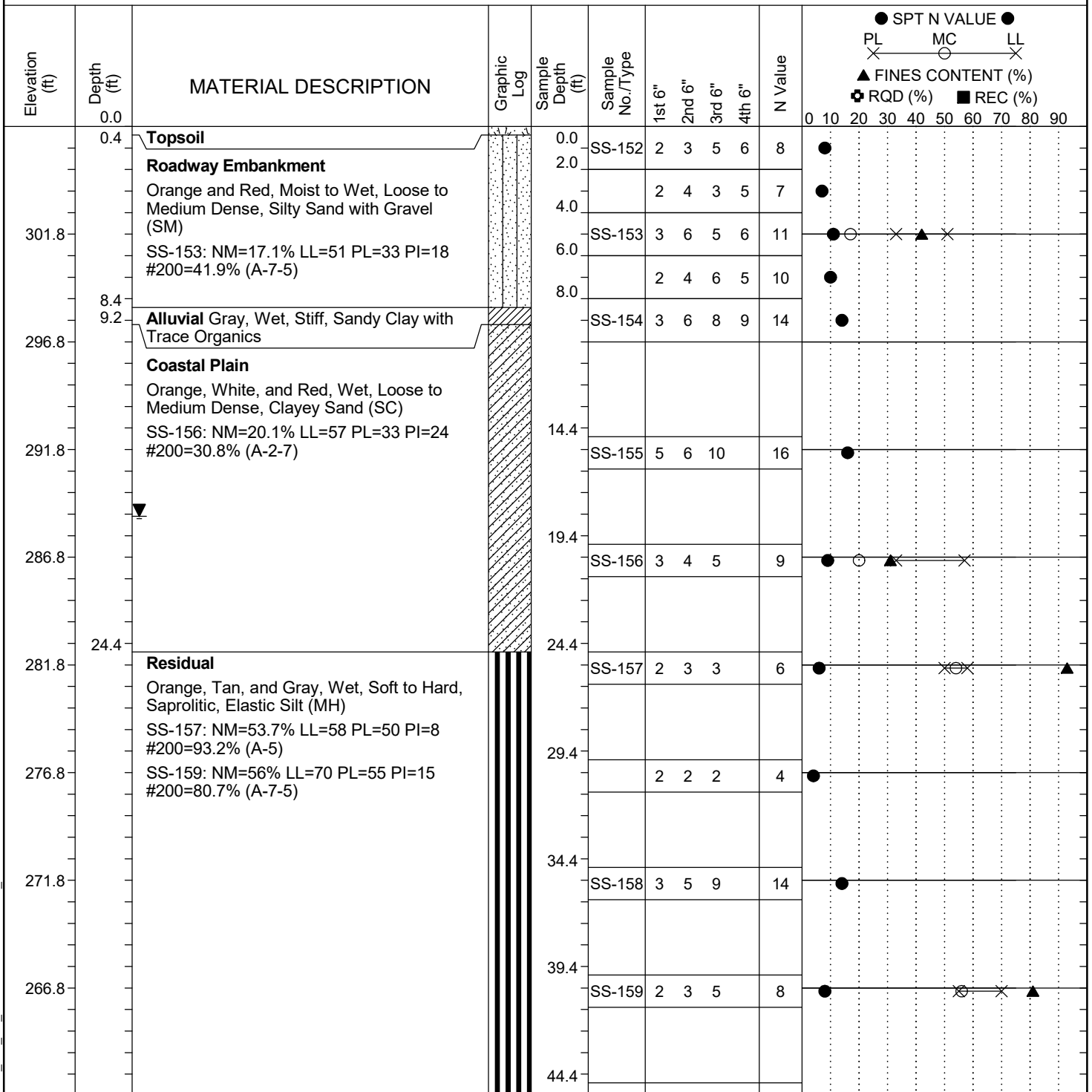
Project ID: P039719				County: Richland		Boring No.: G-105		
Site Description:		Carolina Crossroads Phase 2					Route: I-20	
Eng./Geo.: O. Daynes		Boring Location: 260+00		Offset: 50 RT		Alignment: I20CL		
Elev.: 177.2 ft	Latitude: 34.04631332	Longitude: -81.07682034		Date Started: 2/23/2022				
Total Depth: 30.4 ft	Soil Depth: 30.4 ft	Core Depth: N/A ft		Date Completed: 2/23/2022				
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: CME-45B #31	Drill Method: HSA		Hammer Type: Automatic		Energy Ratio: 86%			
Core Size: N/A	Driller: A. Fowler		Groundwater: TOB 7.8 ft		24HR	N/A		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-107
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	395+42	Offset:	41 LT
Elev.:	306.8 ft	Latitude:	34.03920845	Longitude:	-81.09618629
Total Depth:	89.4 ft	Soil Depth:	89.4 ft	Date Started:	3/17/2022
Core Depth:	N/A ft	Date Completed:	3/17/2022	Alignment:	RAMPF
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Energy Ratio:	84.4%
Core Size:	N/A	Driller:	M. Morgan	Groundwater:	TOB N/A
				24HR	18.1 ft

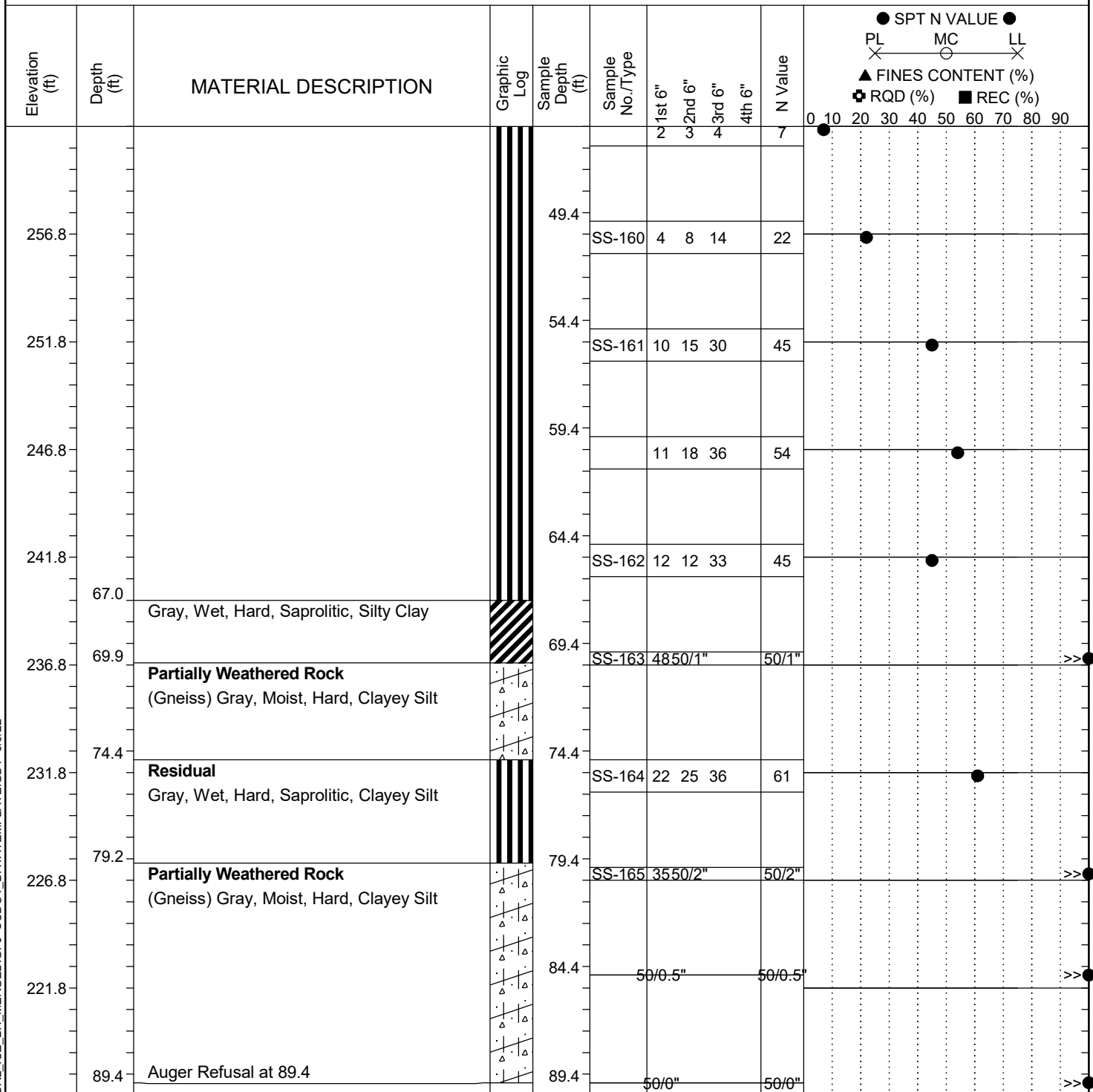


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

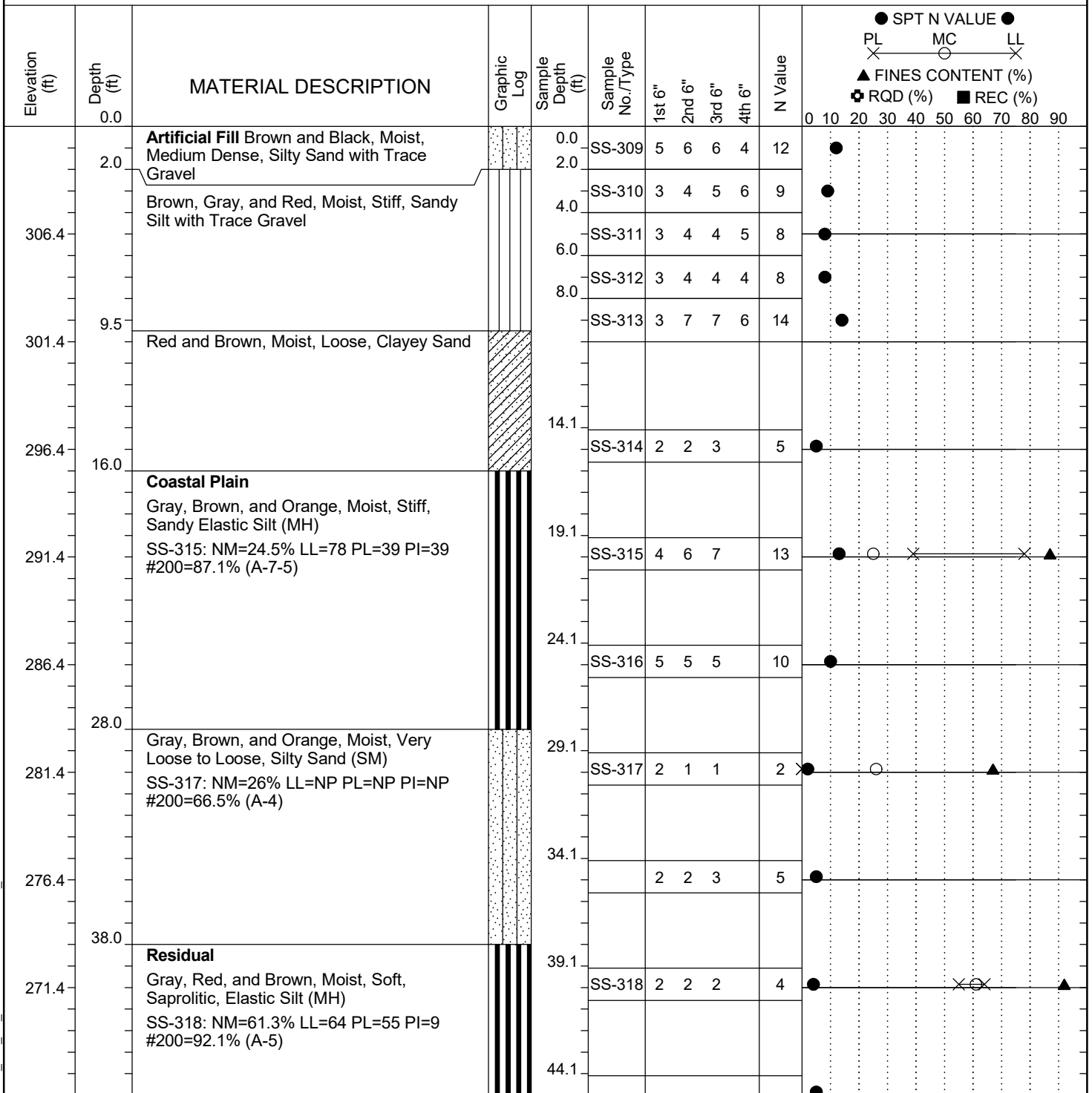
Project ID:	P039719	County:	Richland	Boring No.:	G-107
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	395+42	Offset:	41 LT
Elev.:	306.8 ft	Latitude:	34.03920845	Longitude:	-81.09618629
Date Started:	3/17/2022				
Total Depth:	89.4 ft	Soil Depth:	89.4 ft	Core Depth:	N/A ft
Date Completed:	3/17/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Liner Used:	Y (N)				
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	84.4%				
Core Size:	N/A	Driller:	M. Morgan	Groundwater:	TOB N/A
24HR	18.1 ft				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-113
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	M. Stanbury	Boring Location:	397+32	Offset:	31 RT
Elev.:	311.4 ft	Latitude:	34.03934678	Longitude:	-81.09556744
Total Depth:	84.9 ft	Soil Depth:	84.9 ft	Date Started:	3/9/2022
Core Depth:	N/A ft	Date Completed:	3/9/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Liner Used:	Y (N)				
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
24HR	Cave @ 99'				



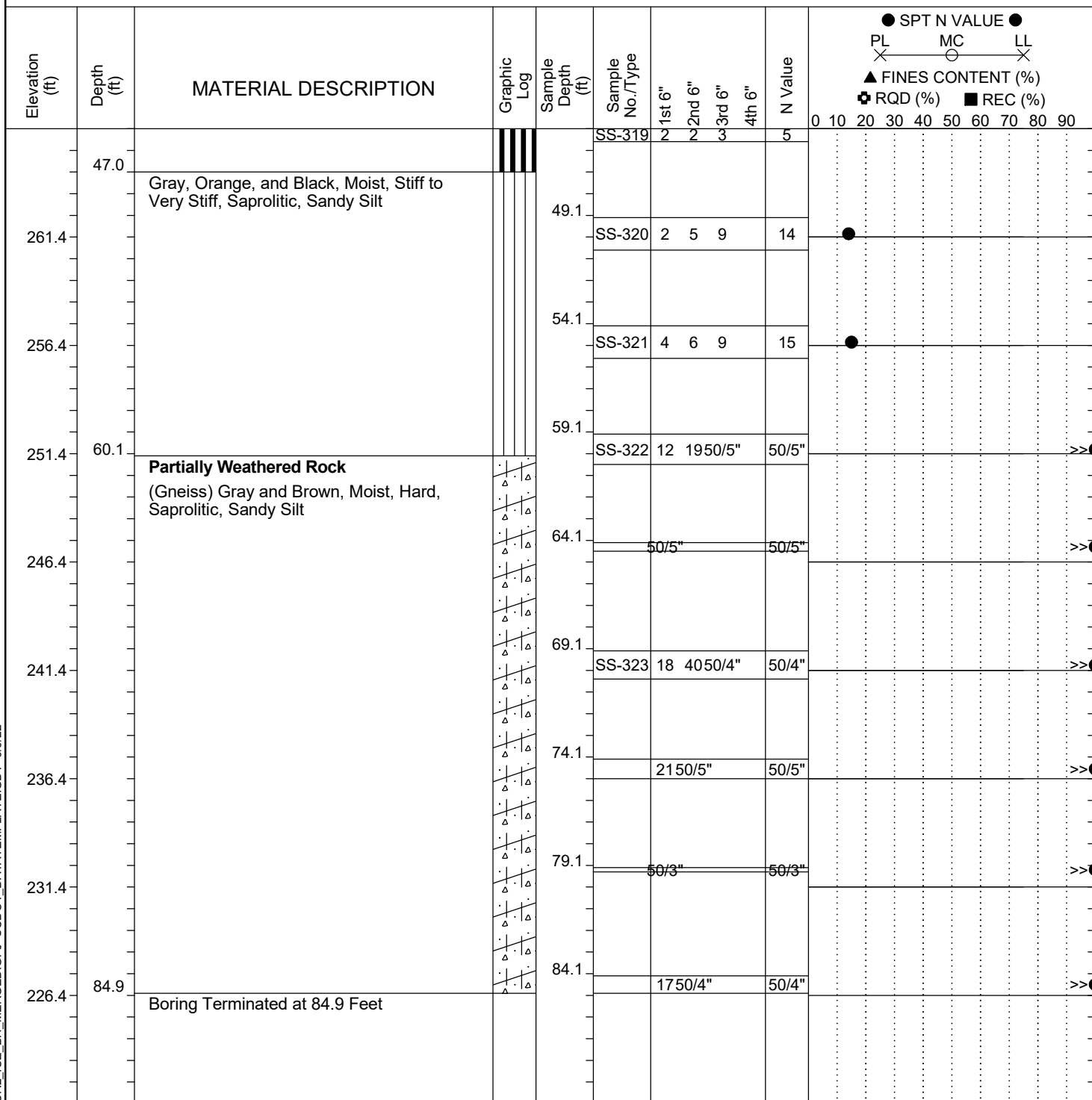
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SC_DOT_20-01_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 6/9/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

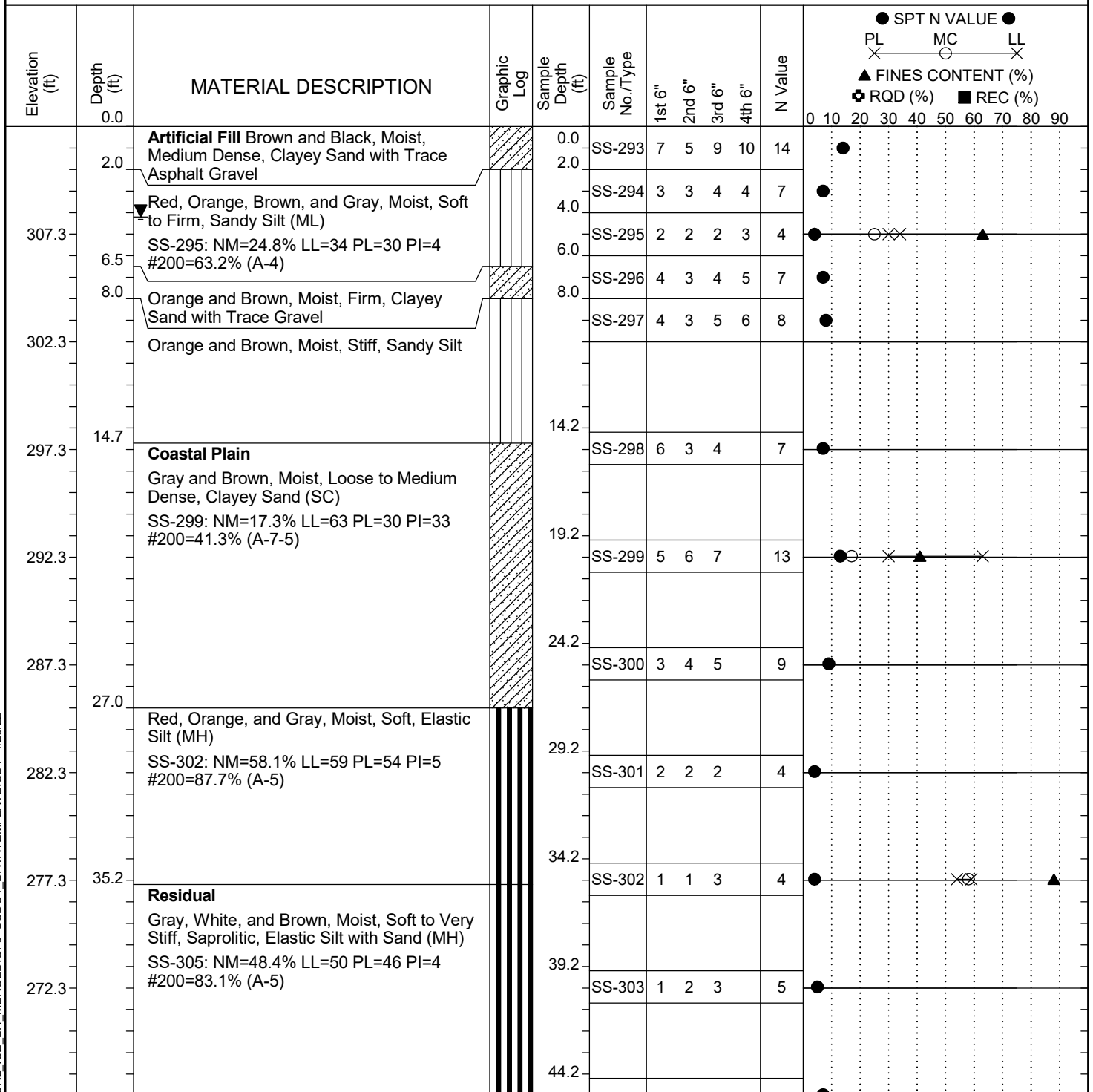
Project ID: P039719				County: Richland		Boring No.: G-113		
Site Description:		Carolina Crossroads Phase 2					Route: Ramp	
Eng./Geo.: M. Stanbury		Boring Location: 397+32			Offset: 31 RT		Alignment: RAMPF	
Elev.: 311.4 ft		Latitude: 34.03934678		Longitude: -81.09556744		Date Started: 3/9/2022		
Total Depth: 84.9 ft		Soil Depth: 84.9 ft		Core Depth: N/A ft		Date Completed: 3/9/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration			Liner Required: Y (N)		Liner Used: Y (N)	
Drill Machine: D-50 #439		Drill Method: RW		Hammer Type: Automatic			Energy Ratio: 90.8%	
Core Size: N/A		Driller: R. Cassell		Groundwater: TOB N/A		24HR: Cave @ 9'9"		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-114
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	M. Stanbury	Boring Location:	397+51	Offset:	16 RT
Elev.:	312.3 ft	Latitude:	34.0394073	Longitude:	-81.09551299
Total Depth:	70 ft	Soil Depth:	70 ft	Core Depth:	N/A ft
Date Started:	3/8/2022				
Date Completed:	3/8/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
24HR	4.2 ft				



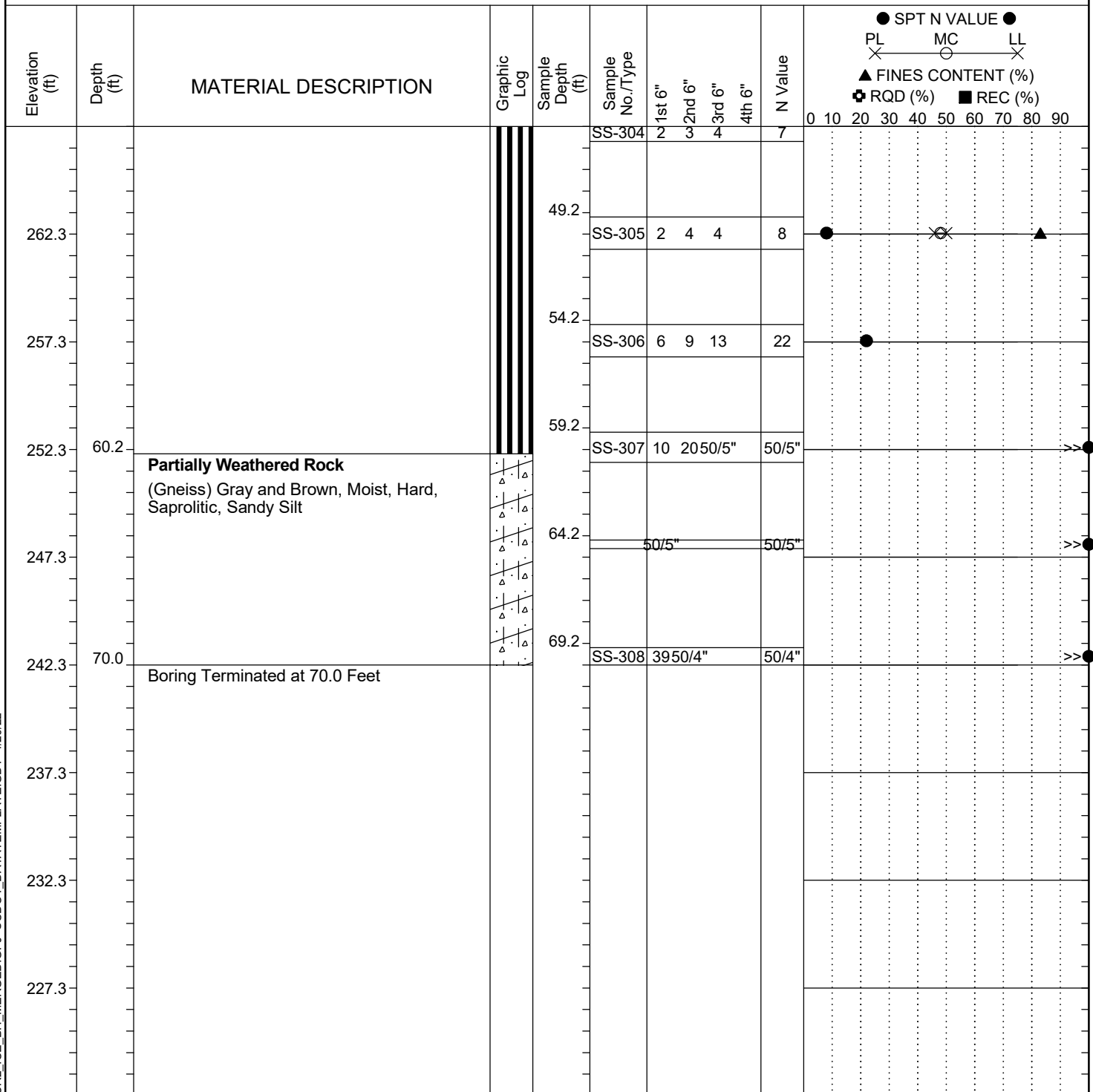
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SC.DOT 20-81_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 4/20/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

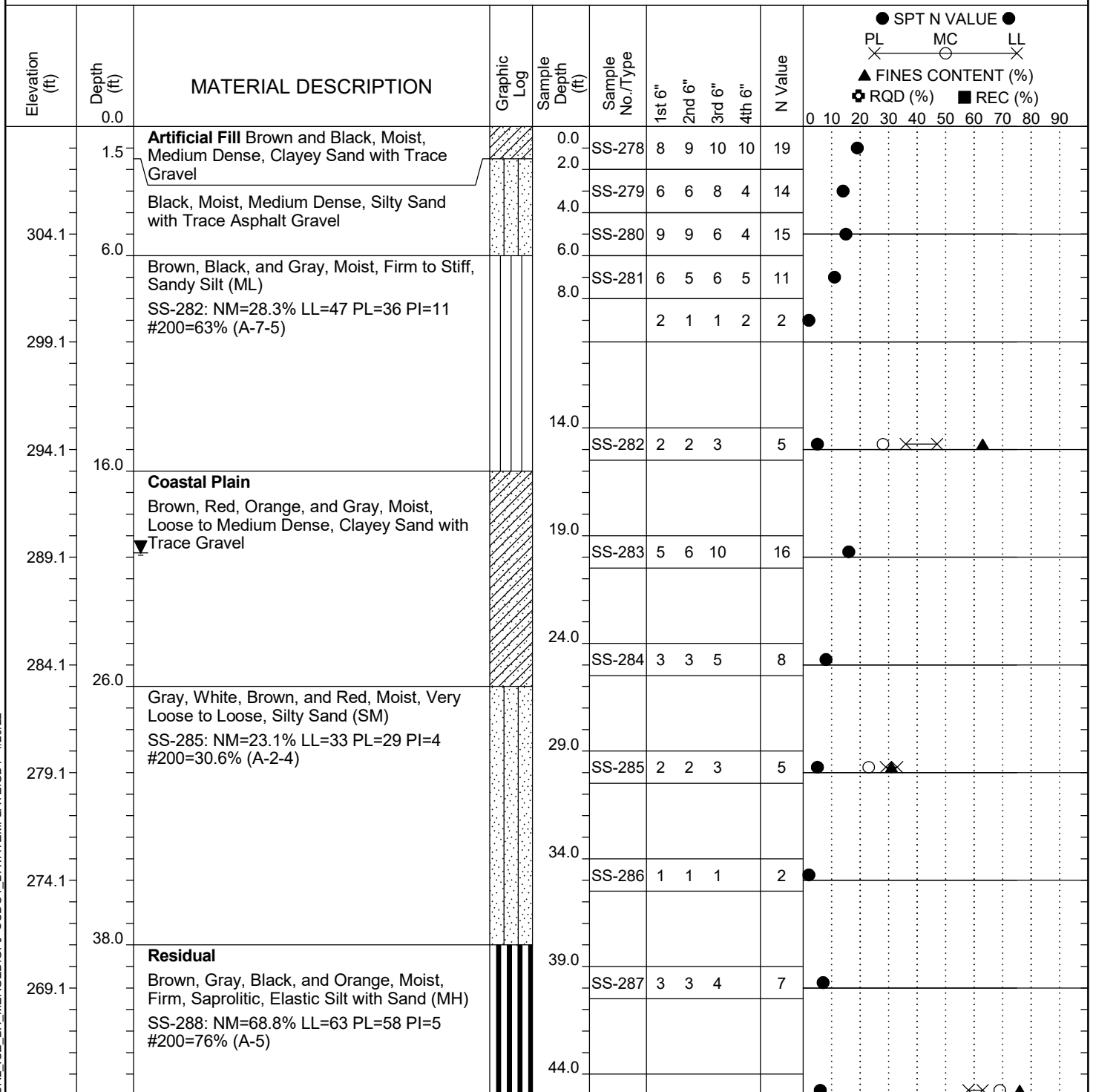
Project ID:	P039719	County:	Richland	Boring No.:	G-114
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	M. Stanbury	Boring Location:	397+51	Offset:	16 RT
Elev.:	312.3 ft	Latitude:	34.0394073	Longitude:	-81.09551299
Total Depth:	70 ft	Soil Depth:	70 ft	Core Depth:	N/A ft
Date Started:	3/8/2022			Date Completed:	3/8/2022
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Liner Used:	Y (N)	Drill Machine:	D-50 #439	Drill Method:	RW
Hammer Type:	Automatic	Energy Ratio:	90.8%	Core Size:	N/A
Driller:	R. Cassell	Groundwater:	TOB	N/A	24HR
4.2 ft					



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-116
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	M. Stanbury	Boring Location:	397+95	Offset:	60 RT
Elev.:	309.1 ft	Latitude:	34.03937795	Longitude:	-81.09530646
Date Started:	3/8/2022				
Total Depth:	70.4 ft	Soil Depth:	70.4 ft	Core Depth:	N/A ft
Date Completed:	3/8/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
24HR	19.8 ft				

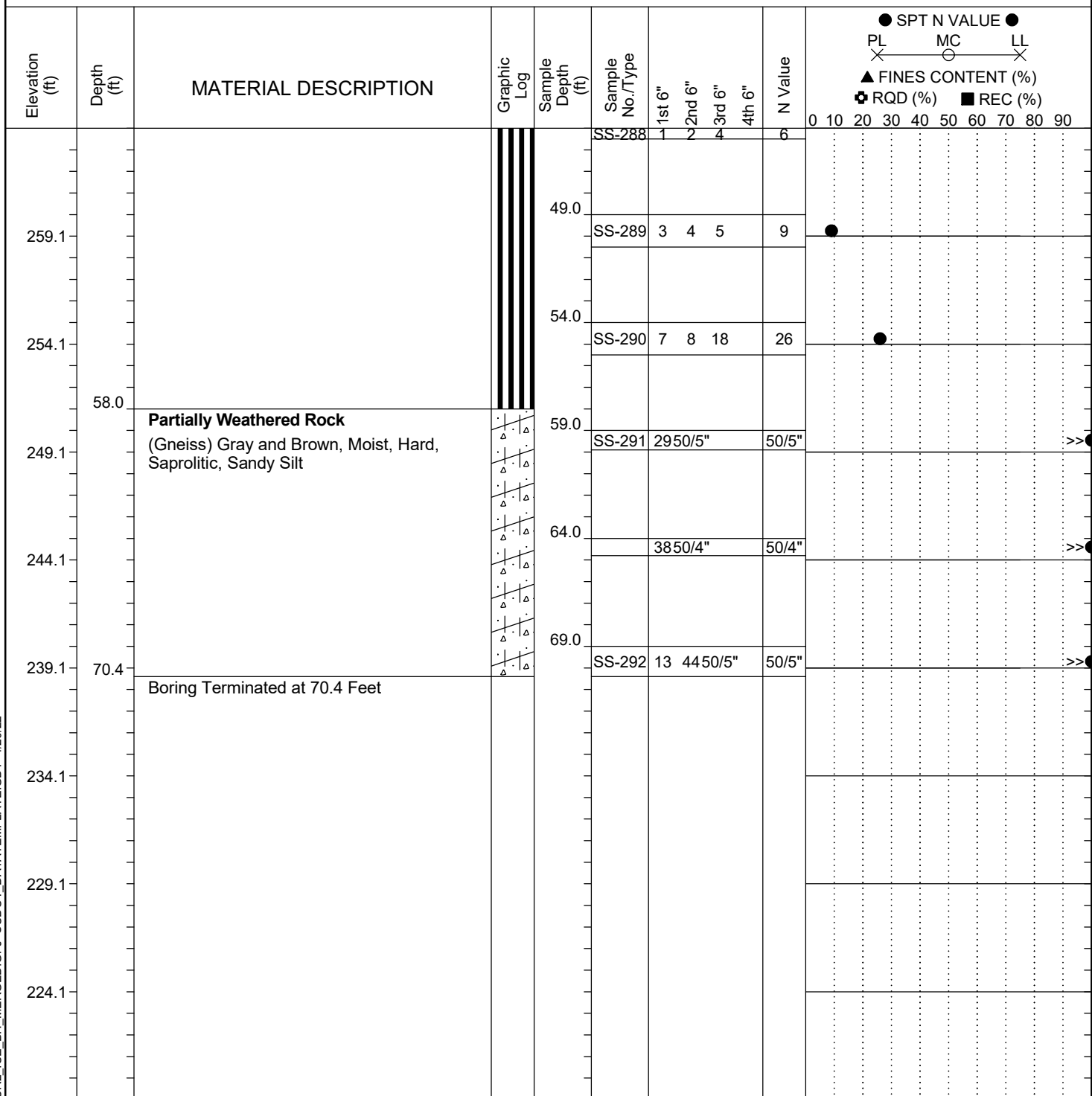


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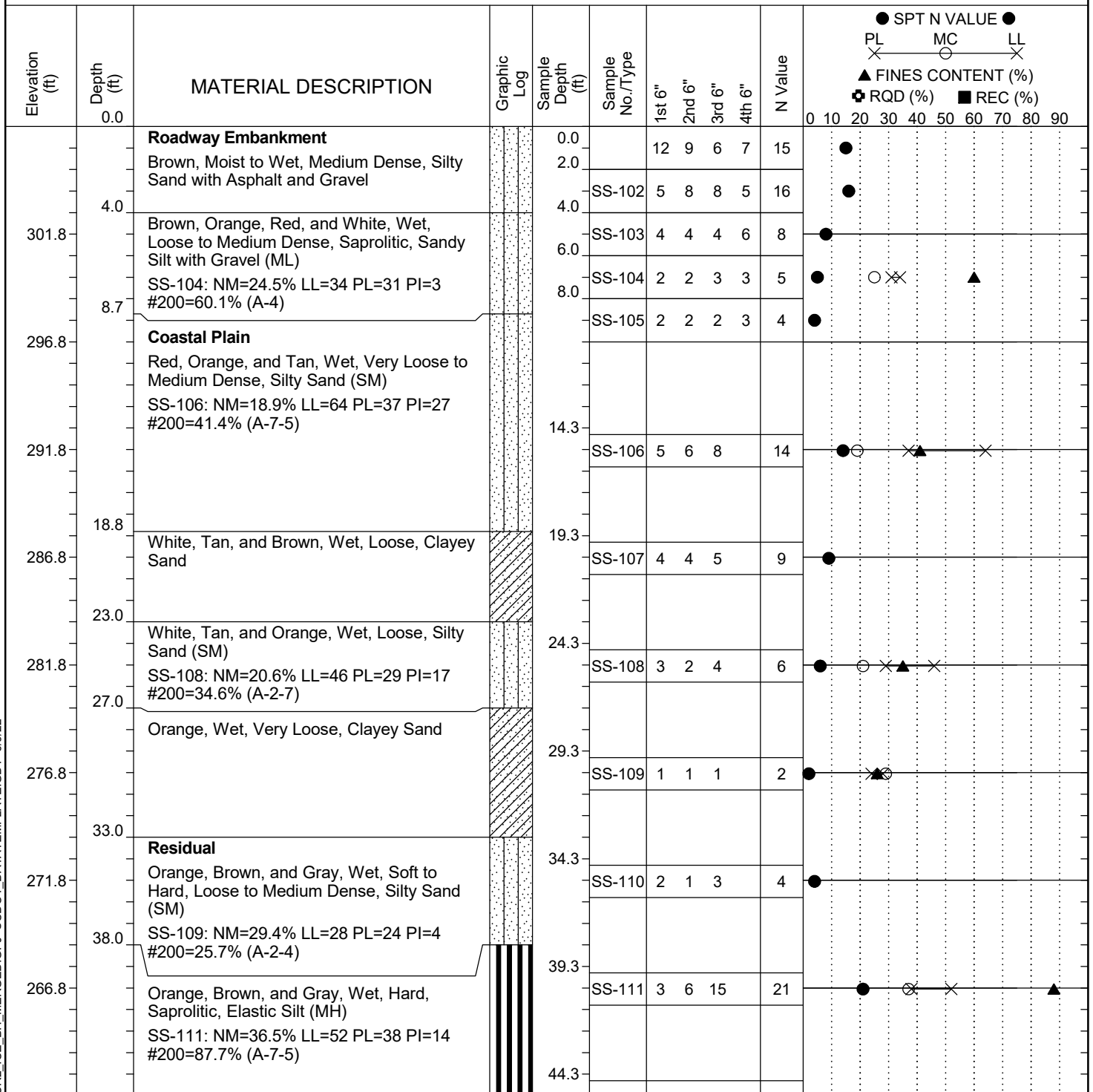
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-116
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	M. Stanbury	Boring Location:	397+95	Offset:	60 RT
Elev.:	309.1 ft	Latitude:	34.03937795	Longitude:	-81.09530646
Date Started:	3/8/2022				
Total Depth:	70.4 ft	Soil Depth:	70.4 ft	Core Depth:	N/A ft
Date Completed:	3/8/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Liner Used:	Y (N)				
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
24HR	19.8 ft				


LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-117
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	395+25	Offset:	20 RT
Elev.:	306.8 ft	Latitude:	34.03905087	Longitude:	-81.09612992
Total Depth:	70.1 ft	Soil Depth:	70.1 ft	Date Started:	3/10/2022
Core Depth:	N/A ft	Date Completed:	3/10/2022	Alignment:	RAMPF
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	84.4%
Driller:	M. Morgan	Groundwater:	TOB	24HR	Cave @ 7'

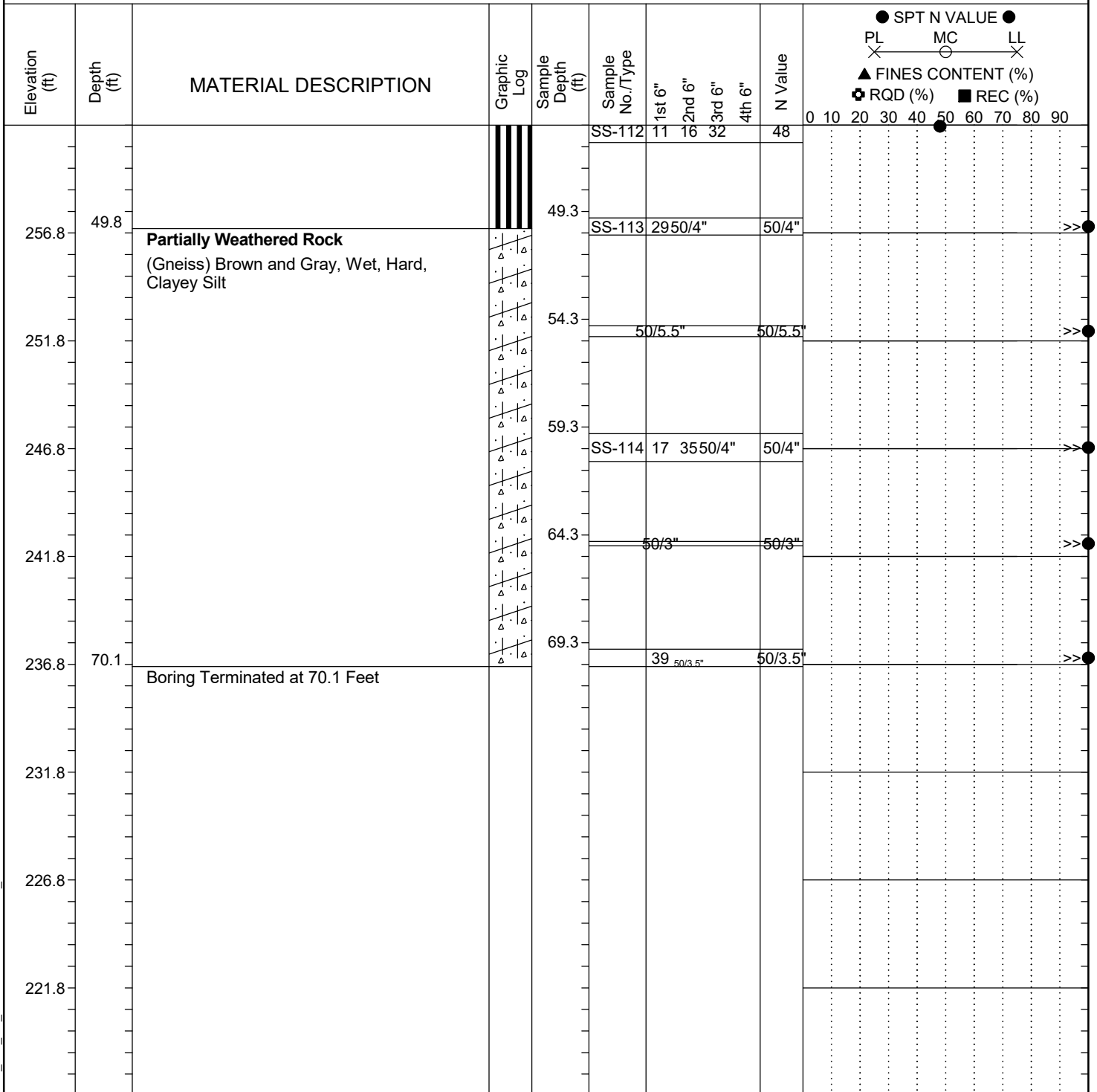


LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

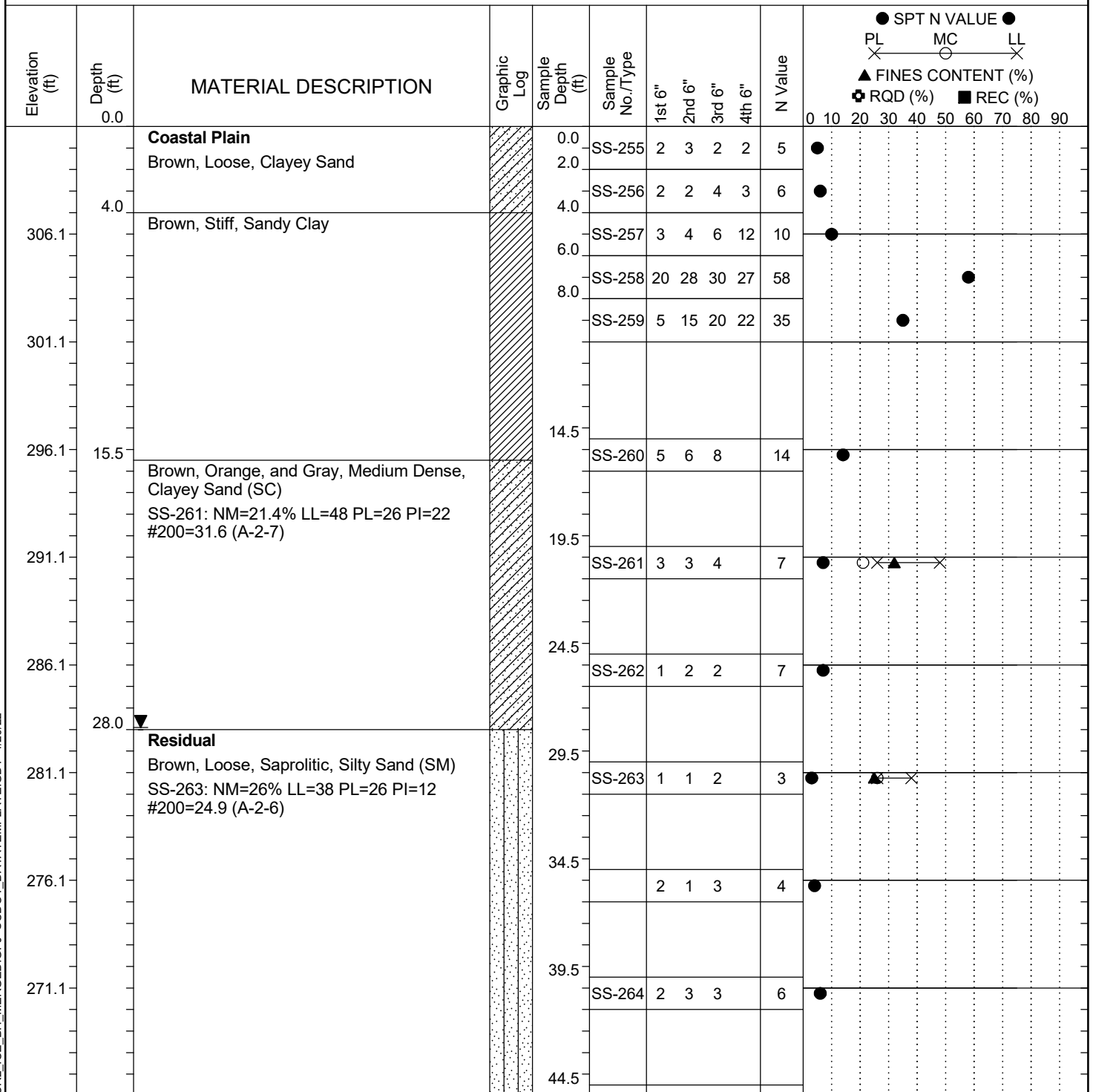
Project ID:	P039719	County:	Richland	Boring No.:	G-117
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	C. McIlroy	Boring Location:	395+25	Offset:	20 RT
Elev.:	306.8 ft	Latitude:	34.03905087	Longitude:	-81.09612992
Total Depth:	70.1 ft	Soil Depth:	70.1 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Groundwater:	TOB N/A
				Energy Ratio:	84.4%
				24HR	Cave @ 7'



LEGEND

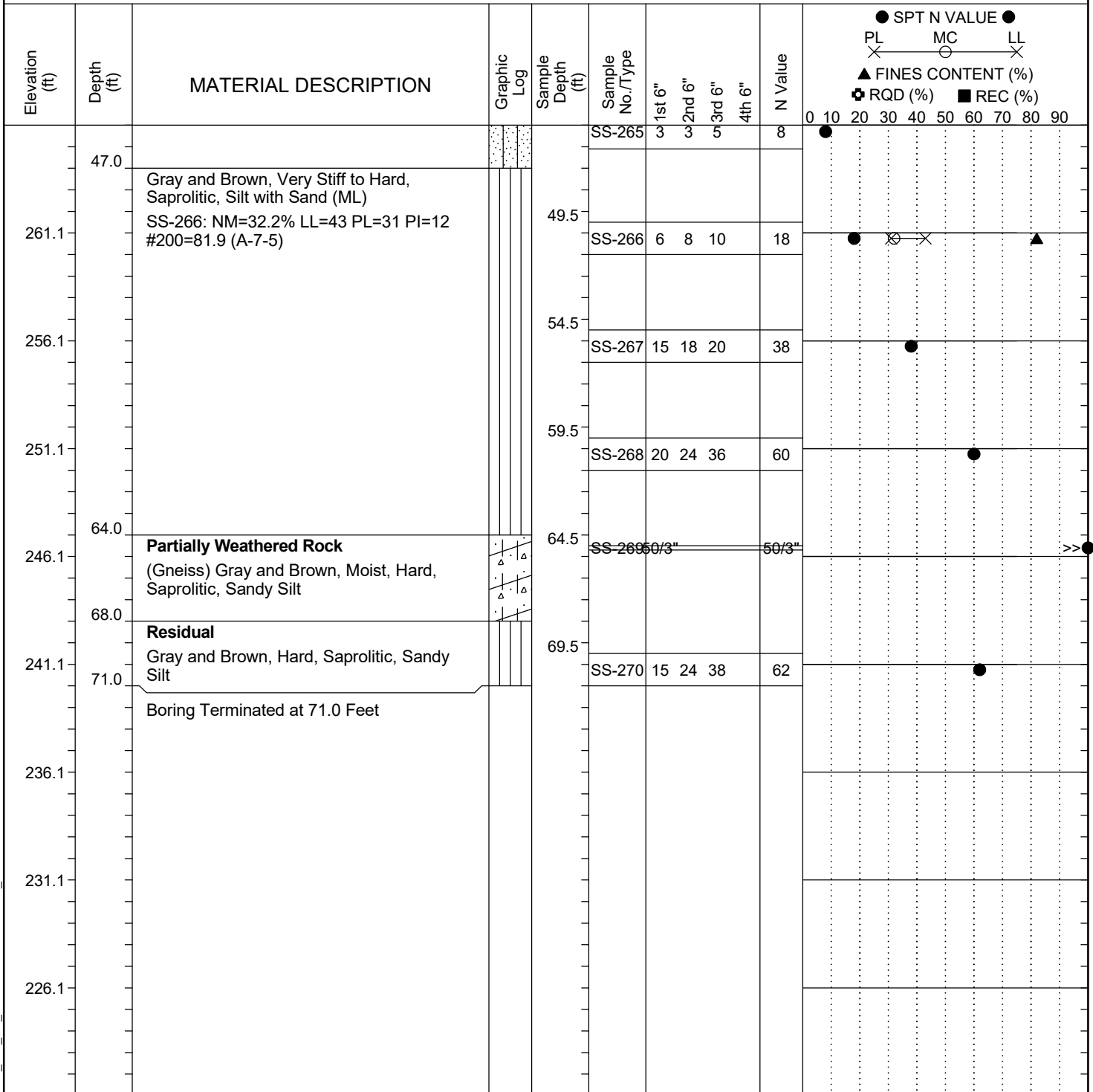
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-118
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	M. Stanbury	Boring Location:	201+50	Offset:	115 LT
Elev.:	311.1 ft	Latitude:	34.03953389	Longitude:	-81.09431051
Total Depth:	71 ft	Soil Depth:	71 ft	Date Started:	3/2/2022
Core Depth:	N/A ft	Date Completed:	3/3/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	27.9 ft


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

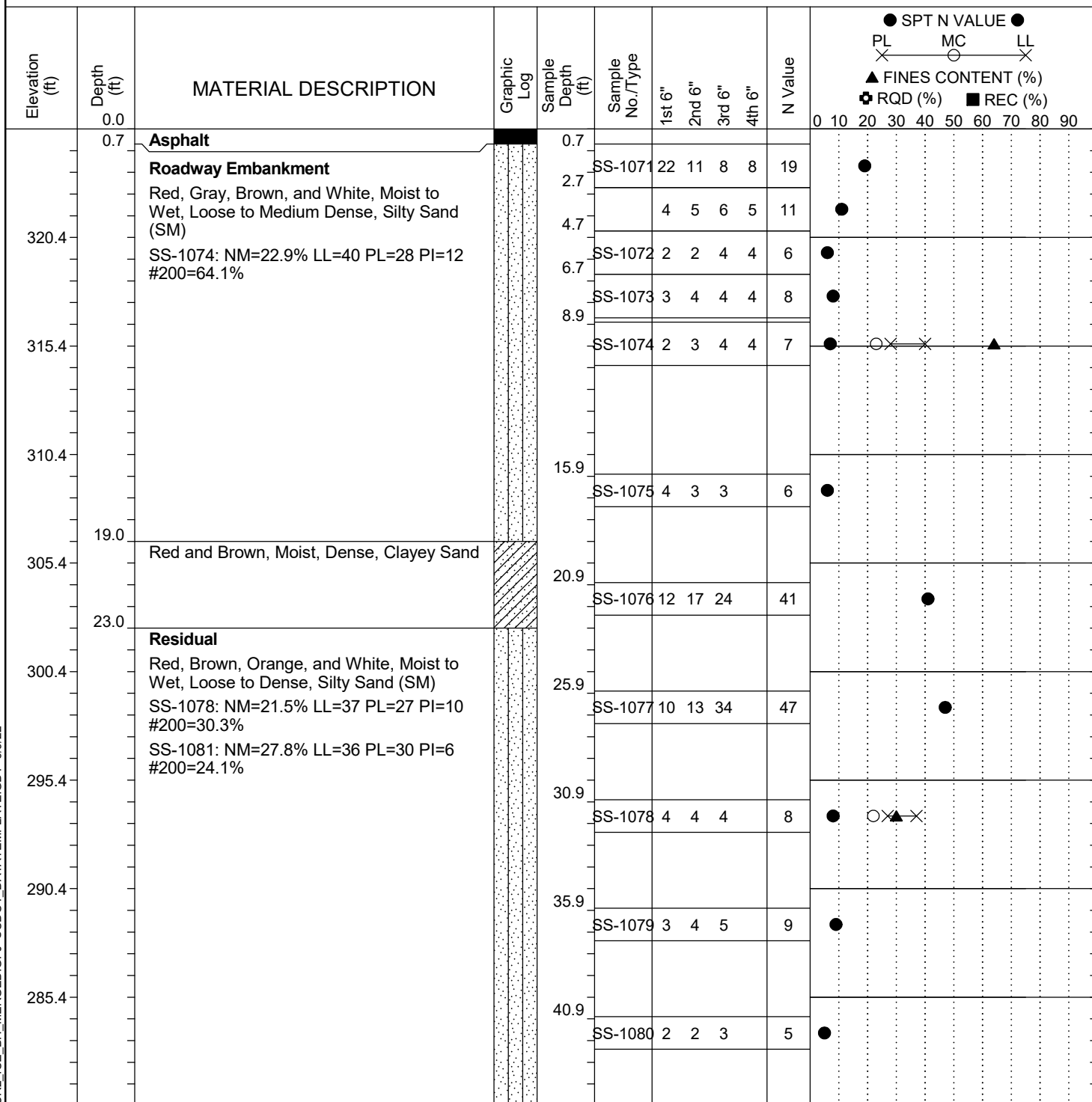
Project ID:	P039719	County:	Richland	Boring No.:	G-118
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Eng./Geo.:	M. Stanbury	Boring Location:	201+50	Offset:	115 LT
Elev.:	311.1 ft	Latitude:	34.03953389	Longitude:	-81.09431051
Total Depth:	71 ft	Soil Depth:	71 ft	Date Started:	3/2/2022
Core Depth:	N/A ft	Date Completed:	3/3/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	27.9 ft



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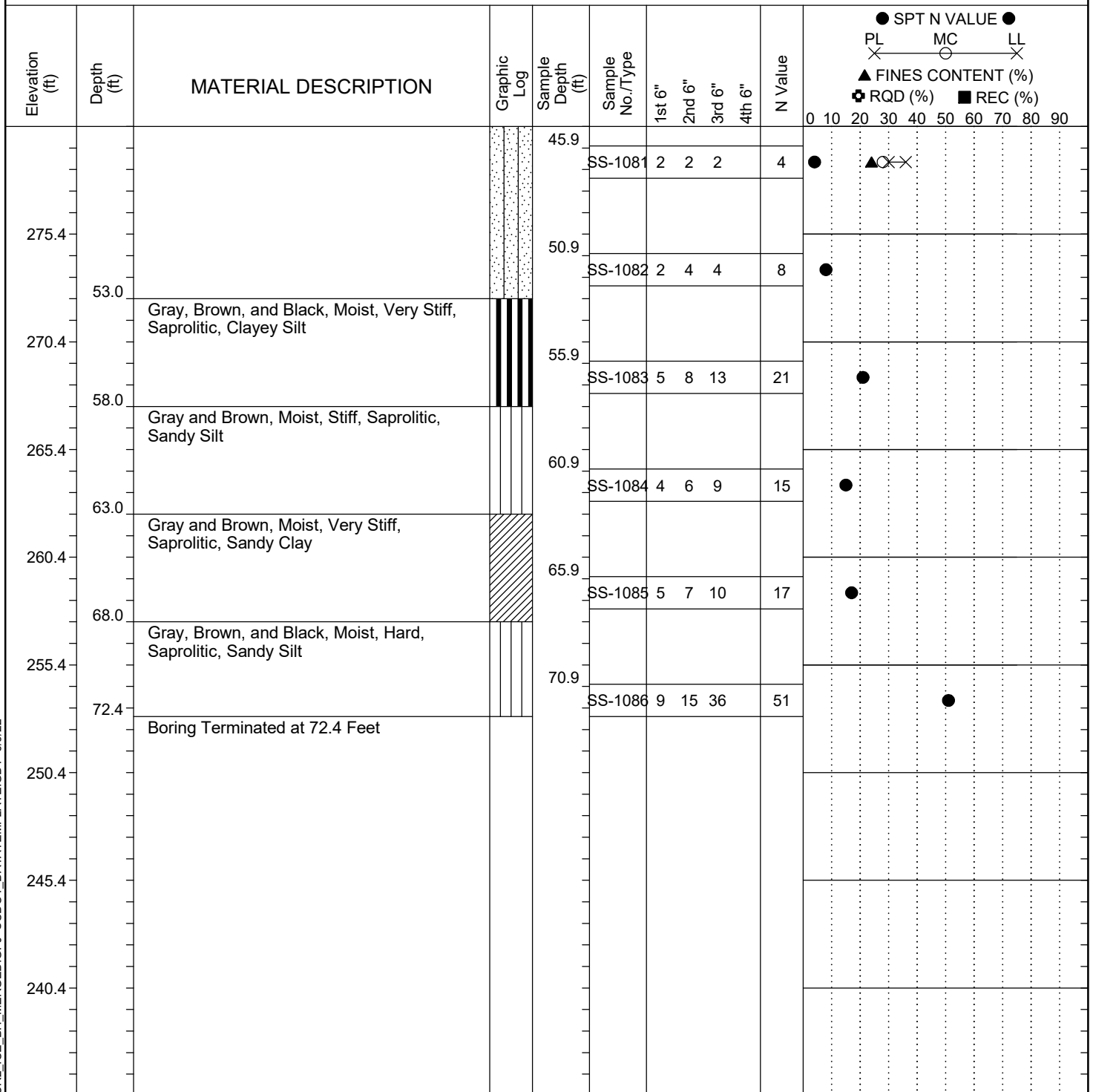
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719				County:	Richland			Boring No.:	G-119	
Site Description:		Carolina Crossroads Phase 2							Route:	Broad River Rd.	
Eng./Geo.:	M. Akland		Boring Location:	612+50		Offset:	38 RT		Alignment:	US176WB	
Elev.:	325.4 ft		Latitude:	34.03972499		Longitude:	-81.09422486		Date Started:	3/22/2022	
Total Depth:	72.4 ft		Soil Depth:	72.4 ft		Core Depth:	N/A ft		Date Completed:	3/22/2022	
Bore Hole Diameter (in):			2.25		Sampler Configuration		Liner Required:	Y (N)		Liner Used:	Y (N)
Drill Machine:	D-50 #439		Drill Method:	RW		Hammer Type:	Automatic		Energy Ratio:	90.8%	
Core Size:	N/A		Driller:	P. Mattis		Groundwater:	TOB	16.8 ft		24HR	FIAD


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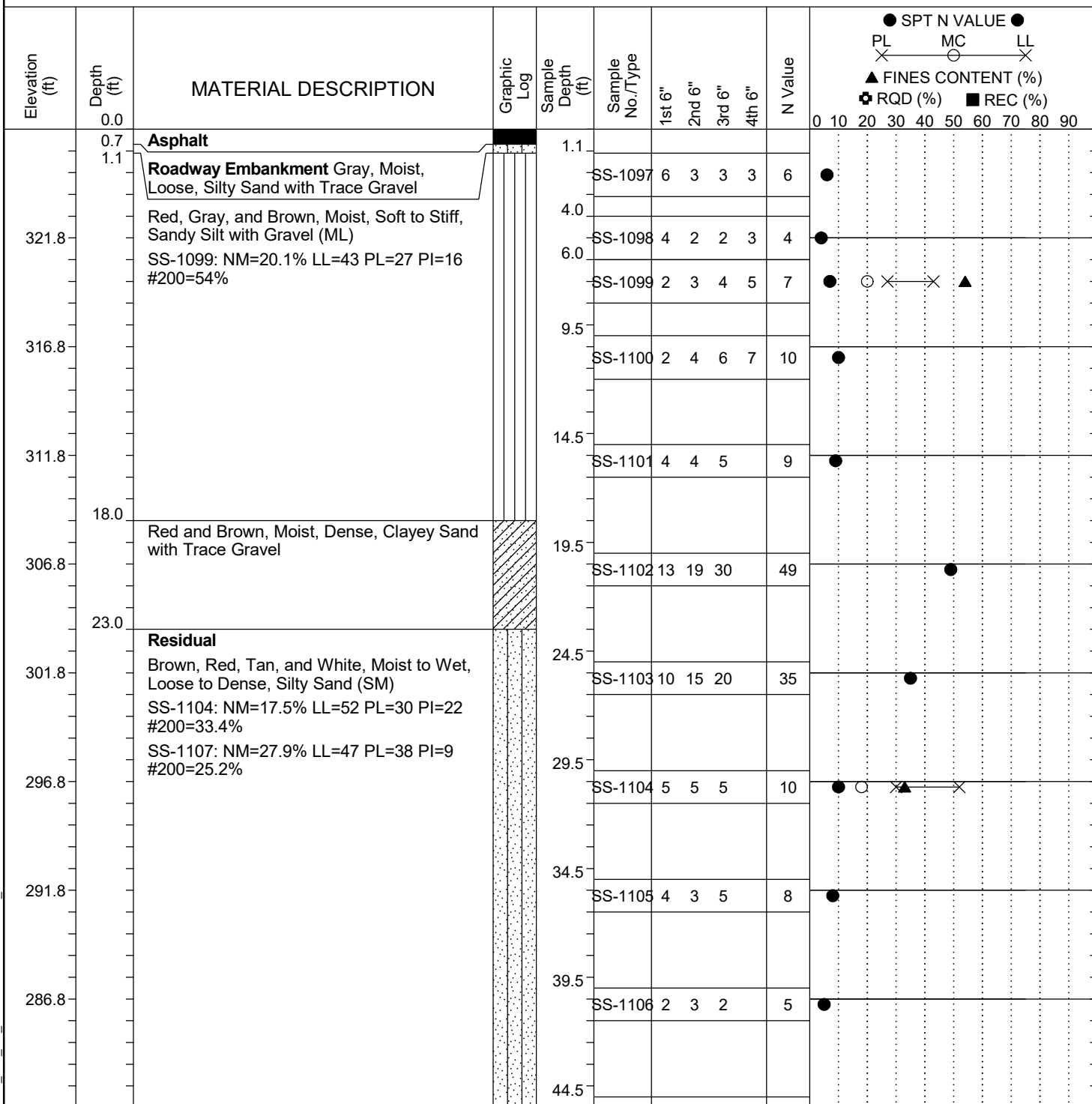
SAMPLER TYPE			DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"		HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings		CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube		DC - Driving Casing	

Project ID: P039719				County: Richland		Boring No.: G-119		
Site Description:		Carolina Crossroads Phase 2					Route: Broad River Rd.	
Eng./Geo.: M. Akland		Boring Location: 612+50			Offset: 38 RT		Alignment: US176WB	
Elev.: 325.4 ft		Latitude: 34.03972499		Longitude: -81.09422486		Date Started: 3/22/2022		
Total Depth: 72.4 ft		Soil Depth: 72.4 ft		Core Depth: N/A ft		Date Completed: 3/22/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration			Liner Required: Y (N)		Liner Used: Y (N)	
Drill Machine: D-50 #439		Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 90.8%		
Core Size: N/A		Driller: P. Mattis		Groundwater: TOB 16.8 ft		24HR FIAD		


LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-120
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Akland	Boring Location:	613+00	Offset:	38 RT
Elev.:	326.8 ft	Latitude:	34.03963386	Longitude:	-81.09410131
Total Depth:	94.6 ft	Soil Depth:	94.6 ft	Date Started:	3/24/2022
Core Depth:	N/A ft	Date Completed:	3/24/2022	Alignment:	US176WB
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	90.8%
Driller:	P. Mattis	Groundwater:	TOB	24HR	FIAD

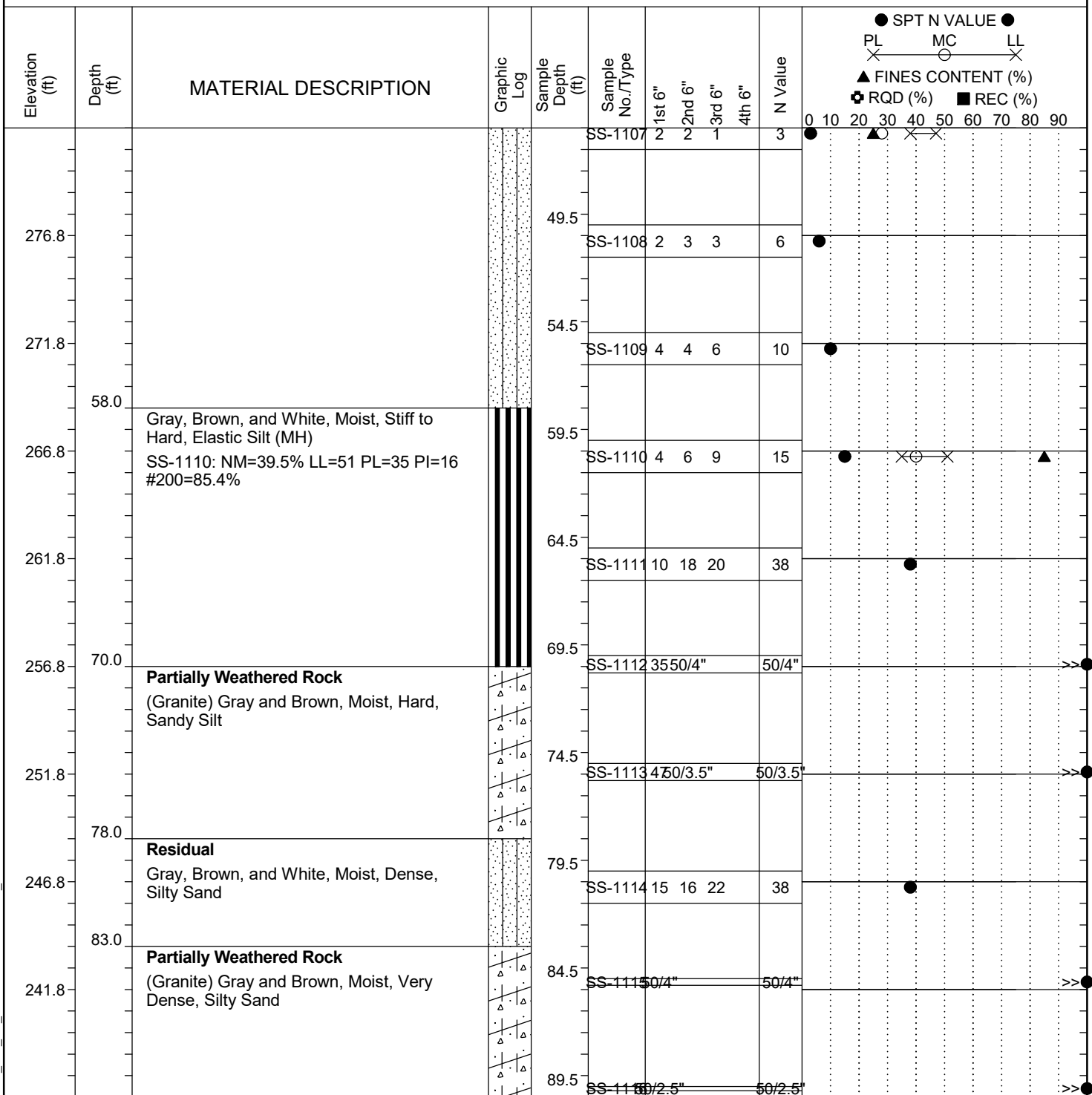


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-120
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Akland	Boring Location:	613+00	Offset:	38 RT
Elev.:	326.8 ft	Latitude:	34.03963386	Longitude:	-81.09410131
Total Depth:	94.6 ft	Soil Depth:	94.6 ft	Date Started:	3/24/2022
Core Depth:	N/A ft	Date Completed:	3/24/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	P. Mattis	Energy Ratio:	90.8%
		Groundwater:	TOB	4.3 ft	24HR FIAD

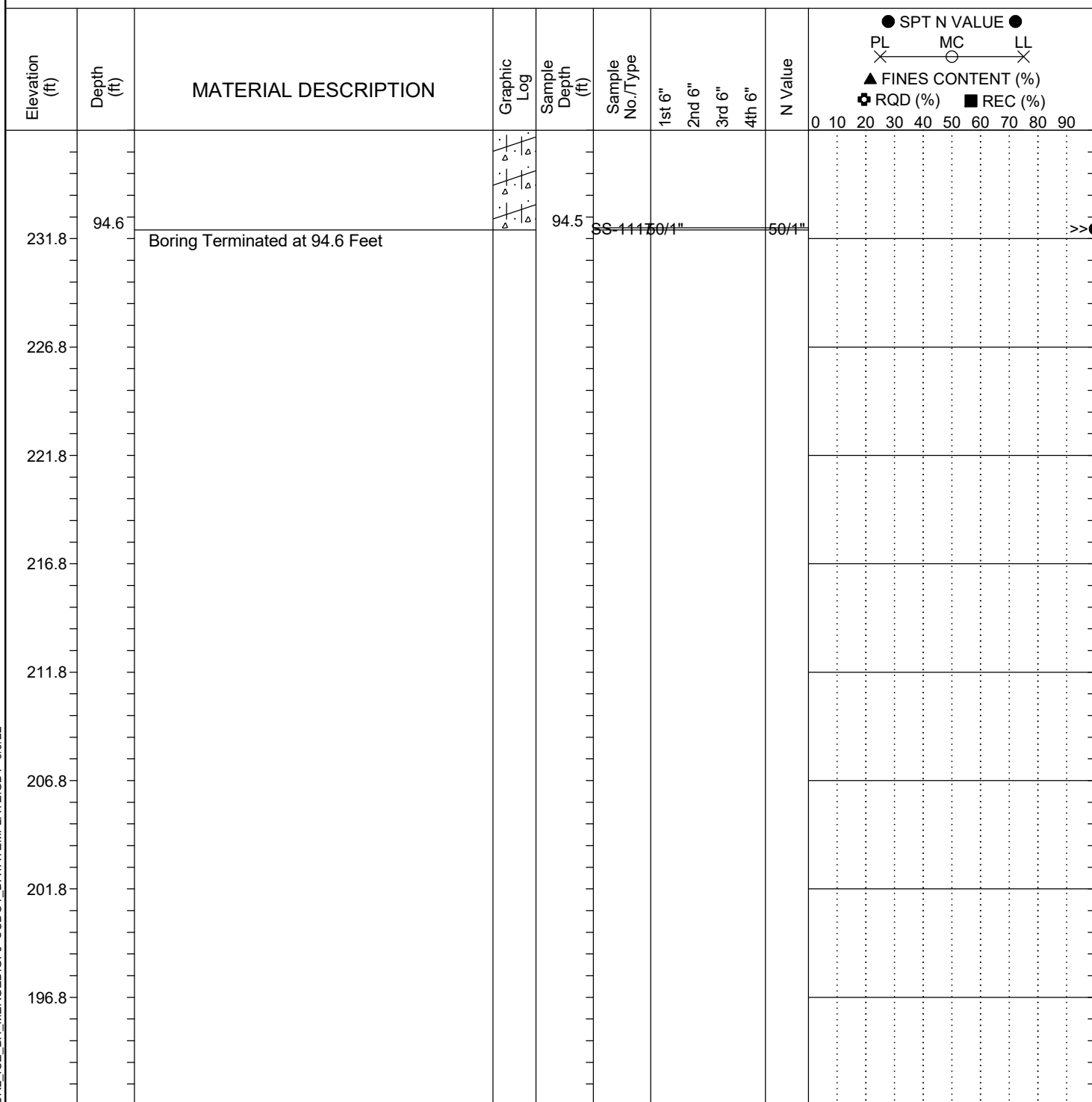


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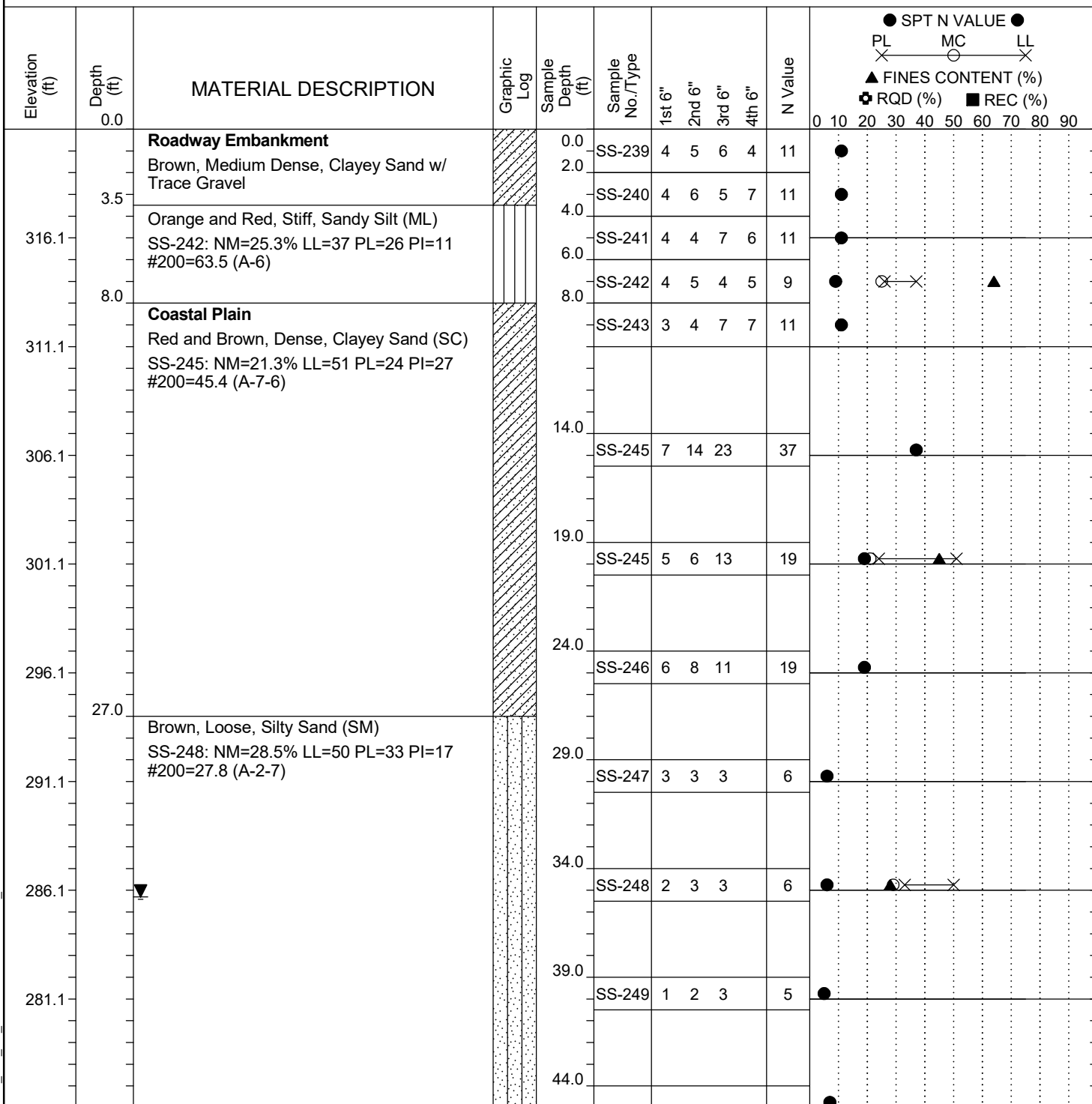
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-120
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Akland	Boring Location:	613+00	Offset:	38 RT
Elev.:	326.8 ft	Latitude:	34.03963386	Longitude:	-81.09410131
Total Depth:	94.6 ft	Soil Depth:	94.6 ft	Date Started:	3/24/2022
Core Depth:	N/A ft	Date Completed:	3/24/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	P. Mattis	Energy Ratio:	90.8%
		Groundwater:	TOB	4.3 ft	24HR FIAD


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

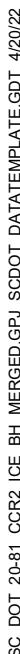
Project ID:	P039719	County:	Richland	Boring No.:	G-121
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	202+85	Offset:	186 LT
Elev.:	321.1 ft	Latitude:	34.03985446	Longitude:	-81.09401208
Total Depth:	69.8 ft	Soil Depth:	69.8 ft	Date Started:	3/2/2022
Core Depth:	N/A ft	Date Completed:	3/2/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	35.3 ft



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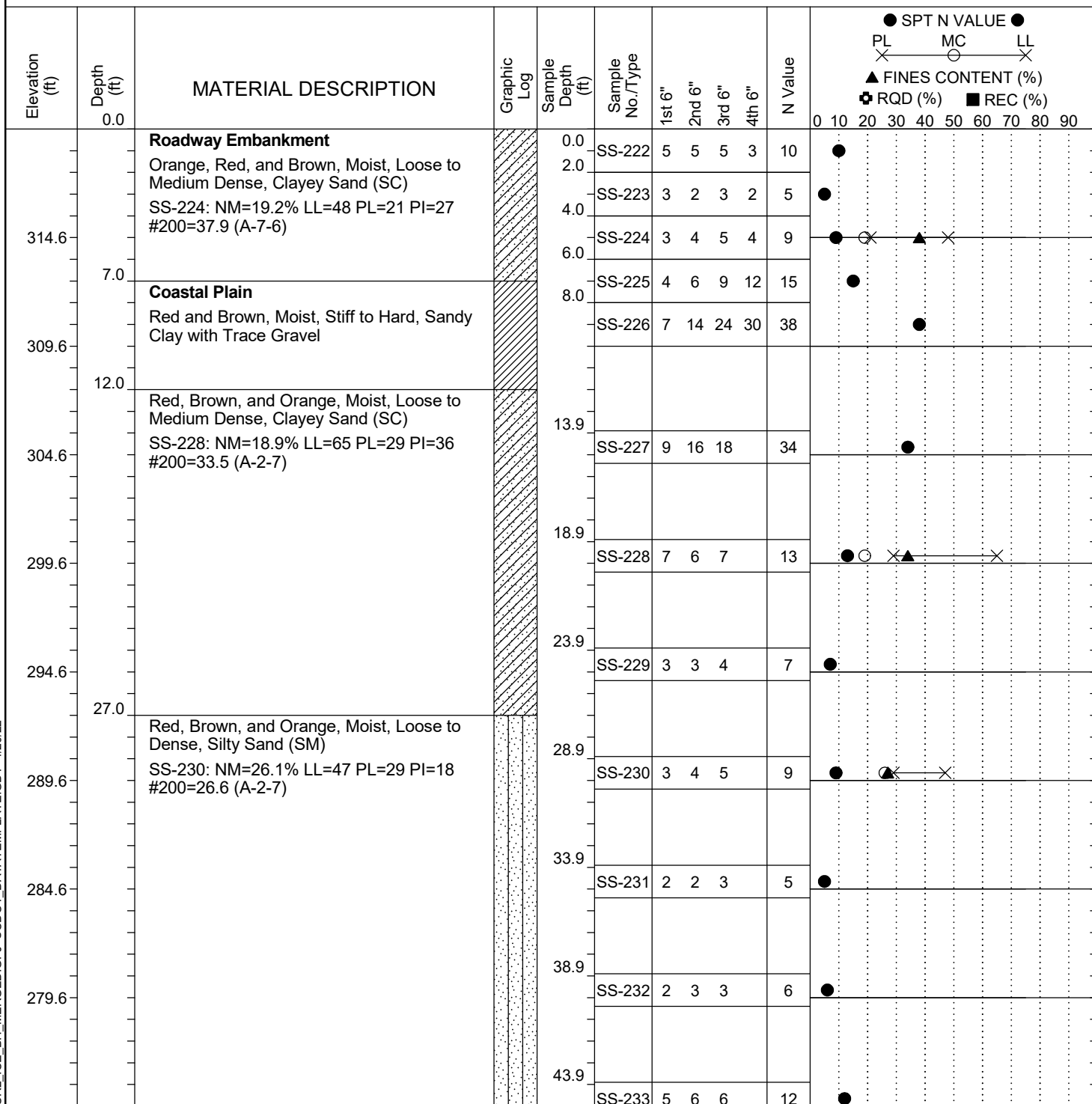
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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	



SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-122
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	203+32	Offset:	110 LT
Elev.:	319.6 ft	Latitude:	34.03971669	Longitude:	-81.09377055
Total Depth:	89.6 ft	Soil Depth:	89.6 ft	Date Started:	3/1/2022
Core Depth:	N/A ft	Date Completed:	3/1/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	Dry

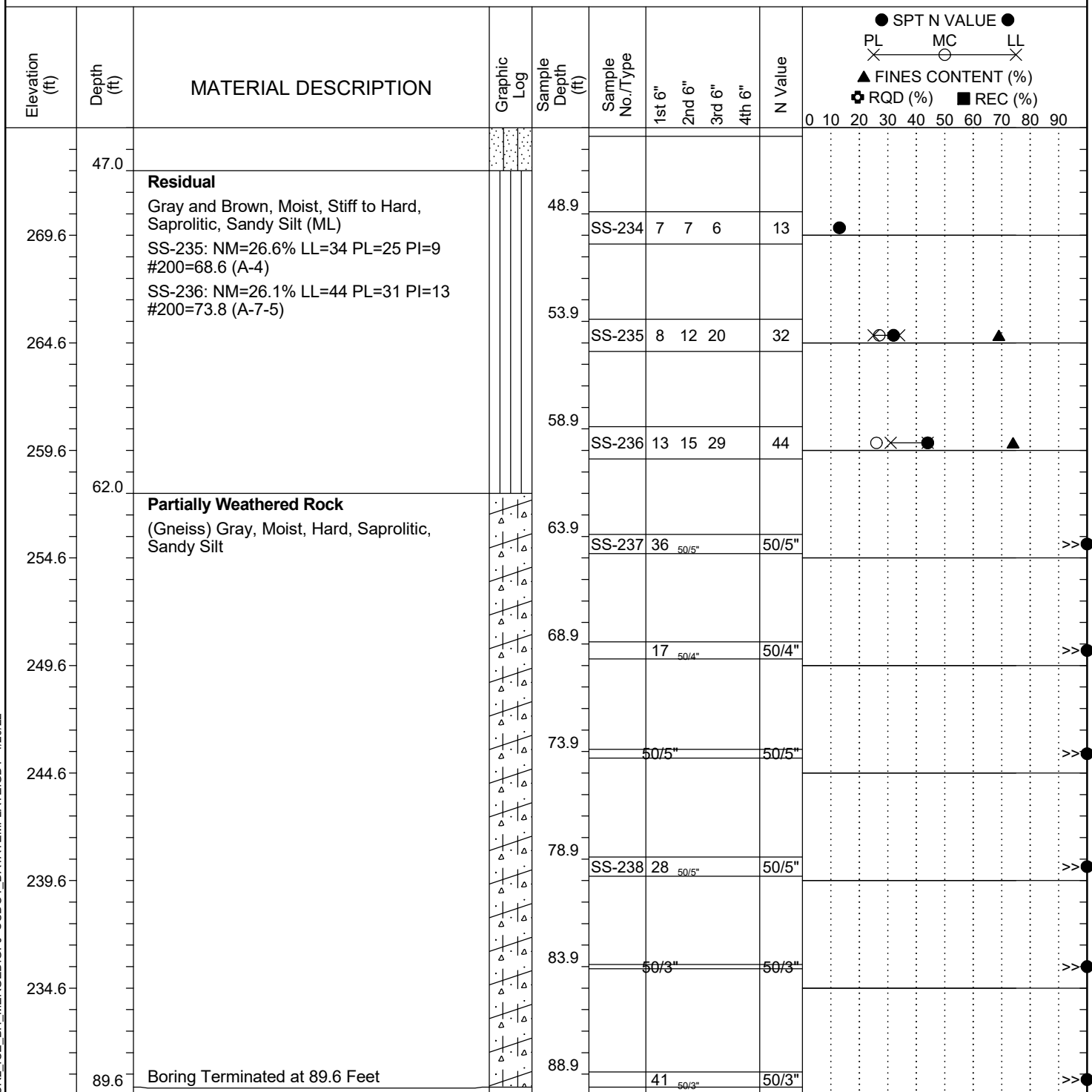


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

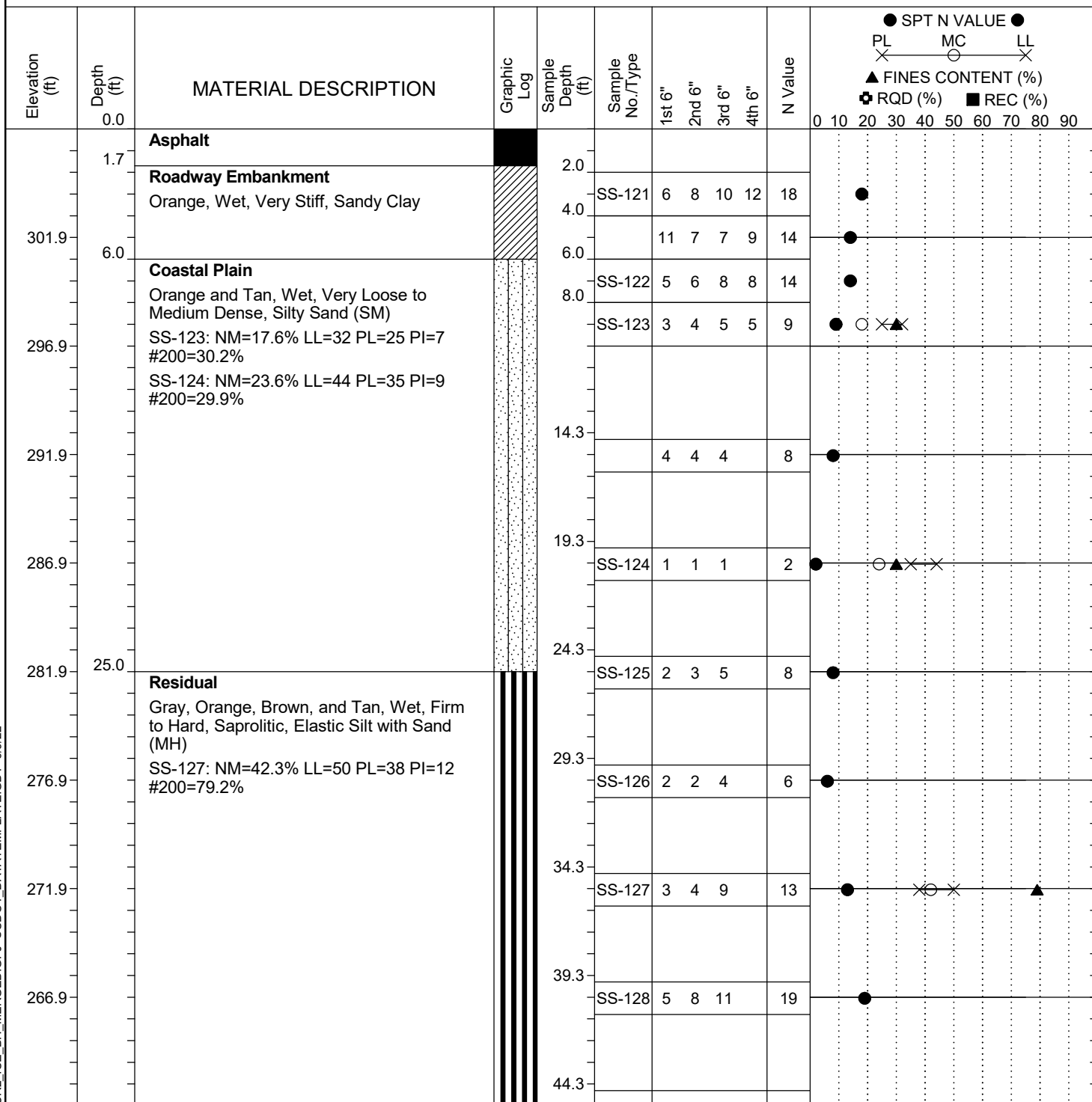
Project ID:	P039719	County:	Richland	Boring No.:	G-122
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	203+32	Offset:	110 LT
Elev.:	319.6 ft	Latitude:	34.03971669	Longitude:	-81.09377055
Total Depth:	89.6 ft	Soil Depth:	89.6 ft	Date Started:	3/1/2022
Core Depth:	N/A ft	Date Completed:	3/1/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	Dry



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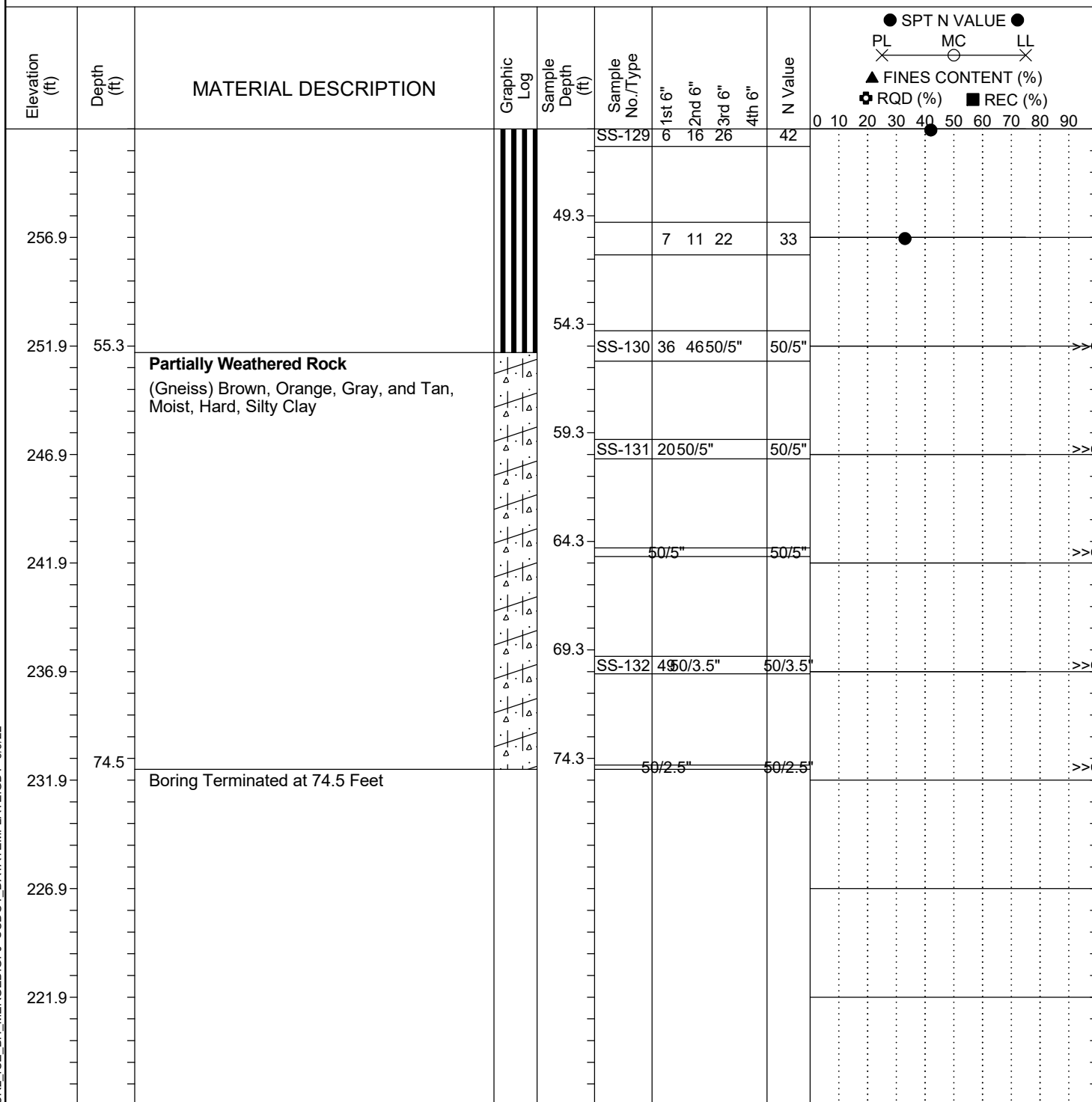
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-123
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	614+27	Offset:	58 RT
Elev.:	306.9 ft	Latitude:	34.03936124	Longitude:	-81.09383128
Total Depth:	74.5 ft	Soil Depth:	74.5 ft	Date Started:	3/14/2022
Core Depth:	N/A ft	Date Completed:	3/15/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	P. Mattis	Energy Ratio:	84.4%
		Groundwater:	TOB	N/A	24HR FIAD


LEGEND
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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

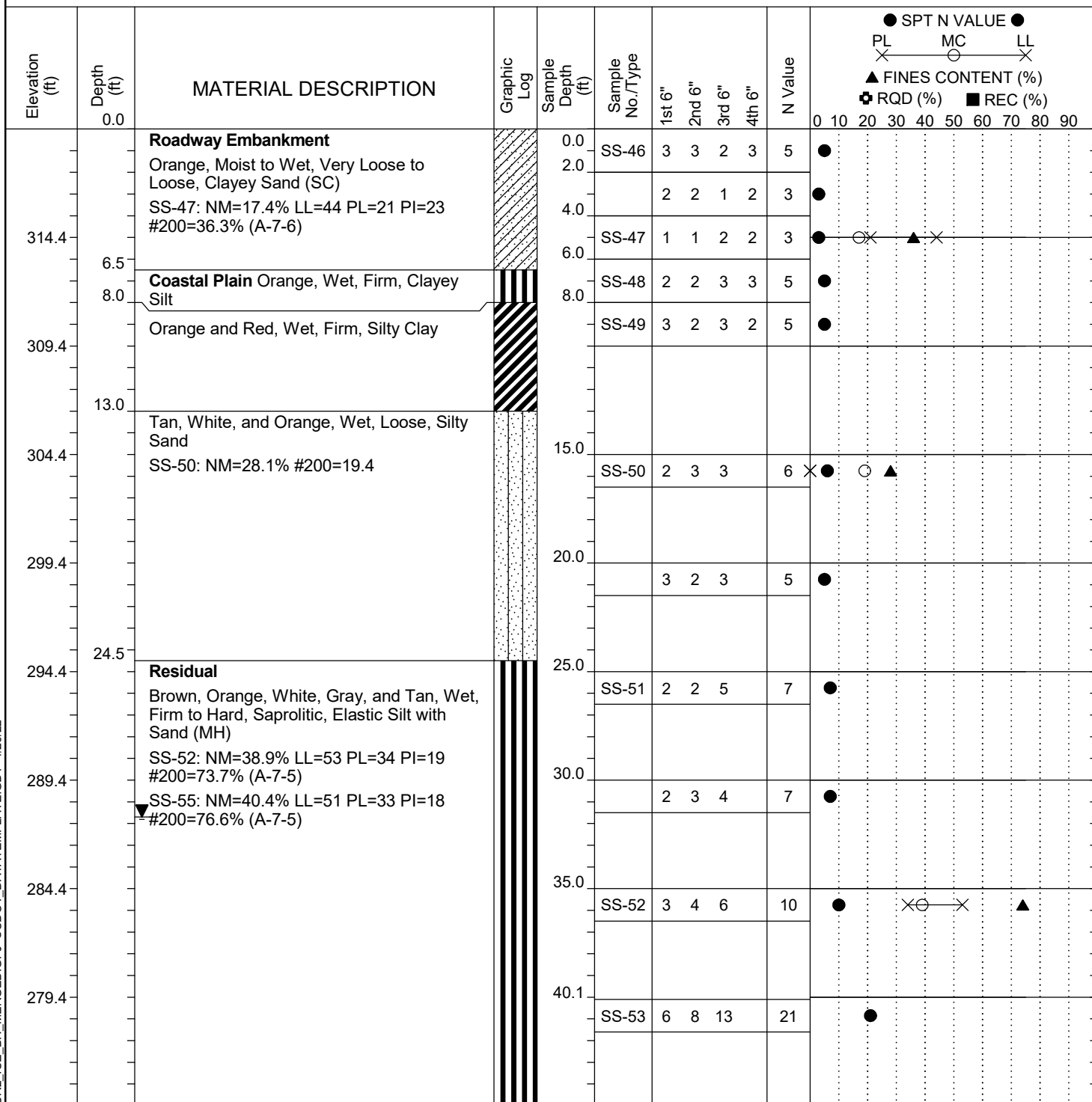
Project ID:			P039719				County:		Richland			Boring No.:		G-123		
Site Description:			Carolina Crossroads Phase 2									Route:		Broad River Rd.		
Eng./Geo.:		C. McIlroy		Boring Location:		614+27		Offset:		58 RT		Alignment:		US176WB		
Elev.:		306.9 ft		Latitude:		34.03936124		Longitude:		-81.09383128		Date Started:		3/14/2022		
Total Depth:		74.5 ft		Soil Depth:		74.5 ft		Core Depth:		N/A ft		Date Completed:		3/15/2022		
Bore Hole Diameter (in):			2.25		Sampler Configuration			Liner Required:			Y (N)		Liner Used:		Y (N)	
Drill Machine:		D-50 #435		Drill Method:		RW		Hammer Type:		Automatic		Energy Ratio:		84.4%		
Core Size:		N/A		Driller:		P. Mattis		Groundwater:		TOB N/A		24HR		FIAD		



LEGEND

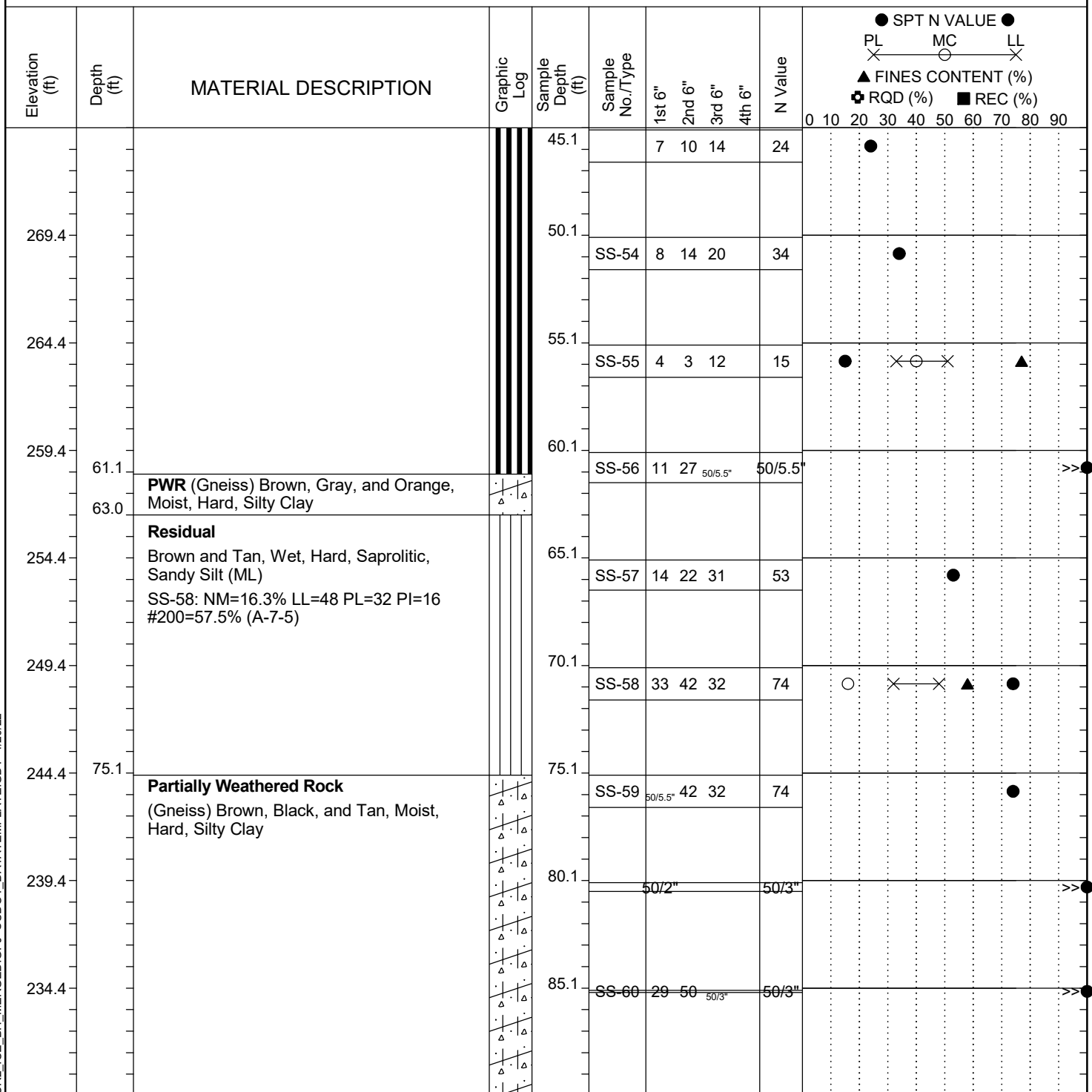
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-126
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	204+20	Offset:	96 RT
Elev.:	319.4 ft	Latitude:	34.03931253	Longitude:	-81.09321267
Total Depth:	95.1 ft	Soil Depth:	95.1 ft	Date Started:	3/2/2022
Core Depth:	N/A ft	Date Completed:	3/3/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	Casing w/ Adv	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	24HR	31.7 ft


LEGEND
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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-126
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	204+20	Offset:	96 RT
Elev.:	319.4 ft	Latitude:	34.03931253	Longitude:	-81.09321267
Total Depth:	95.1 ft	Soil Depth:	95.1 ft	Date Started:	3/2/2022
Core Depth:	N/A ft	Date Completed:	3/3/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	Casing w/ Adv	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	24HR	31.7 ft

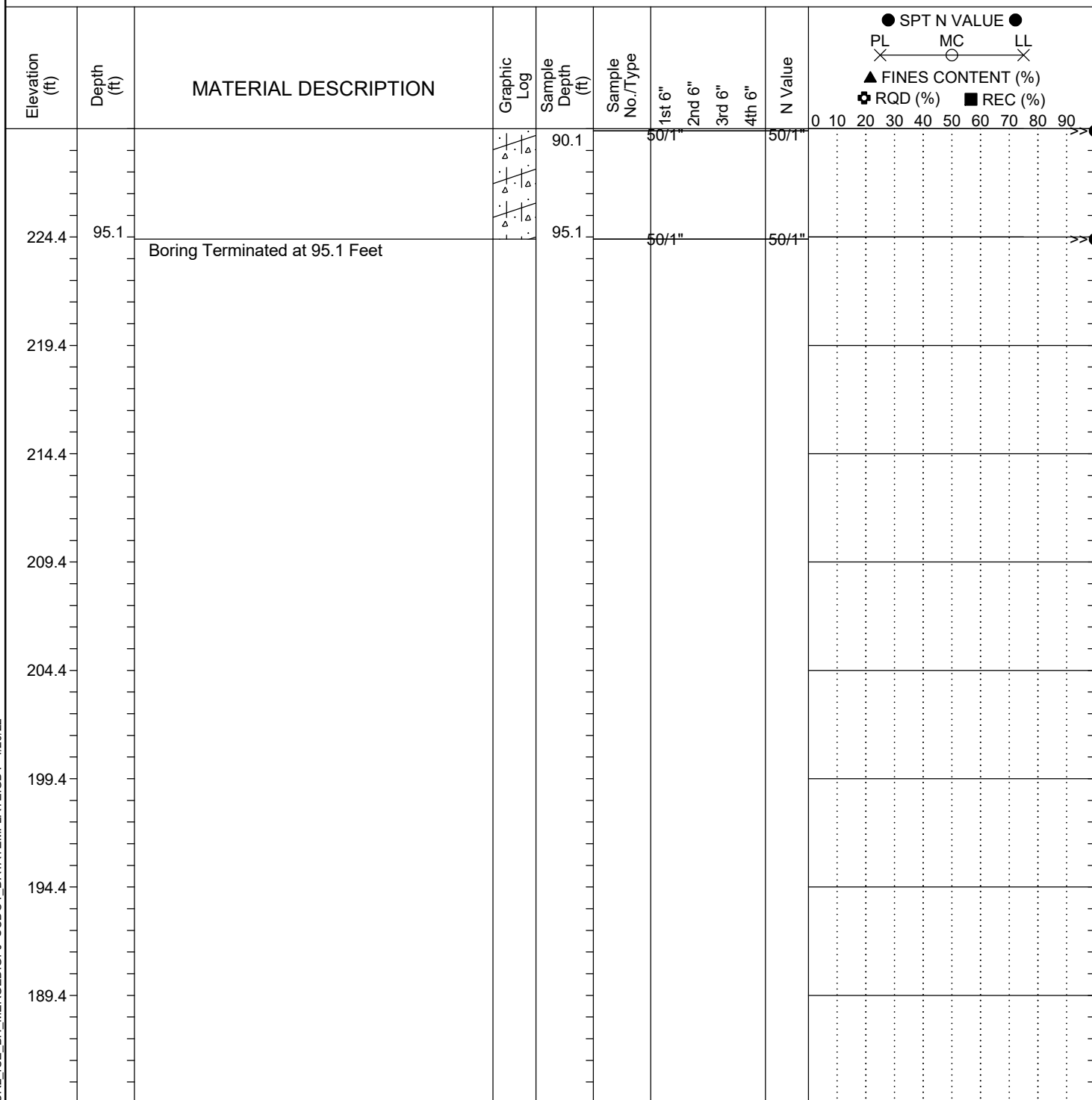


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

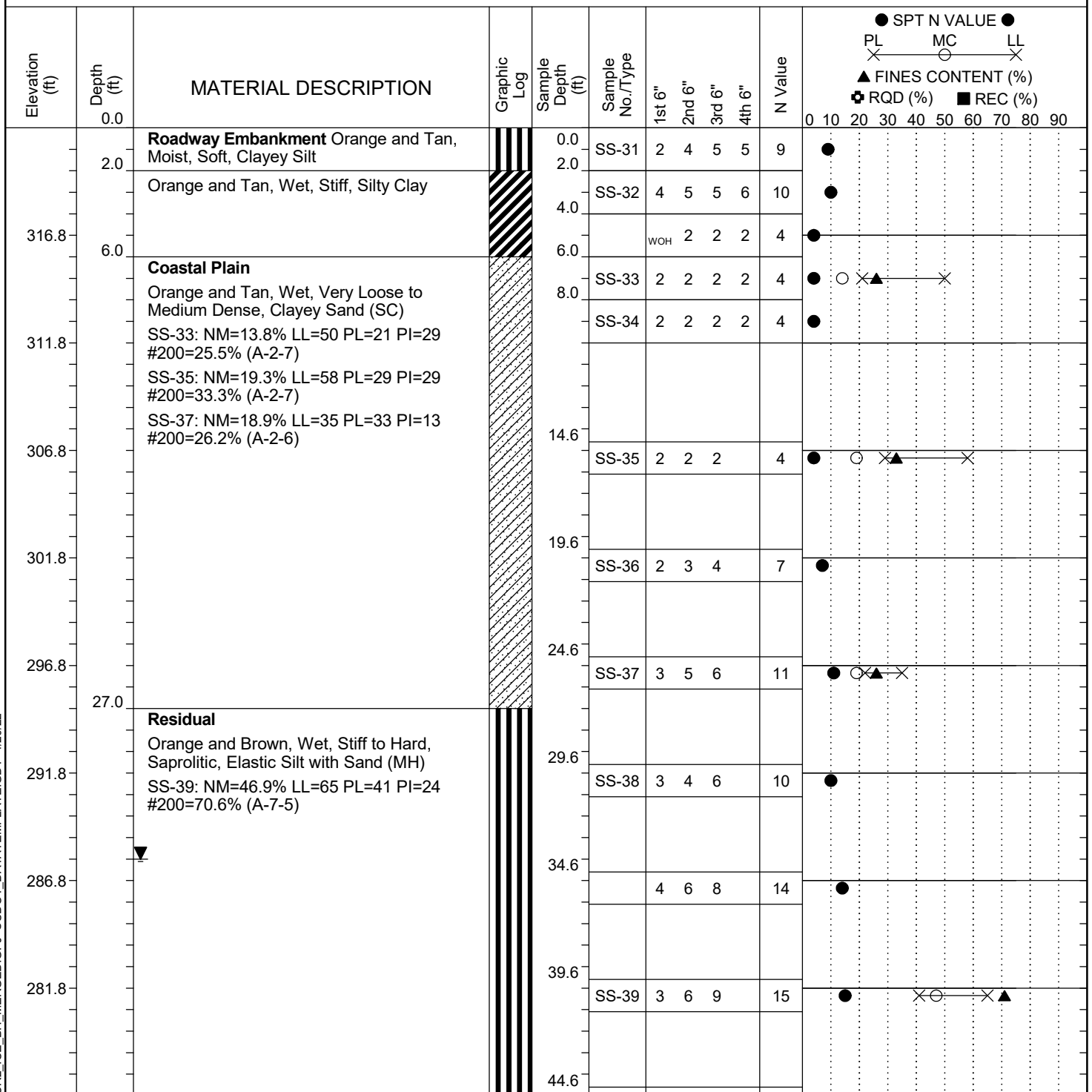
Project ID:	P039719	County:	Richland	Boring No.:	G-126
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	204+20	Offset:	96 RT
Elev.:	319.4 ft	Latitude:	34.03931253	Longitude:	-81.09321267
Total Depth:	95.1 ft	Soil Depth:	95.1 ft	Date Started:	3/2/2022
Core Depth:	N/A ft	Date Completed:	3/3/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	Casing w/ Adv	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	N/A	24HR
					31.7 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

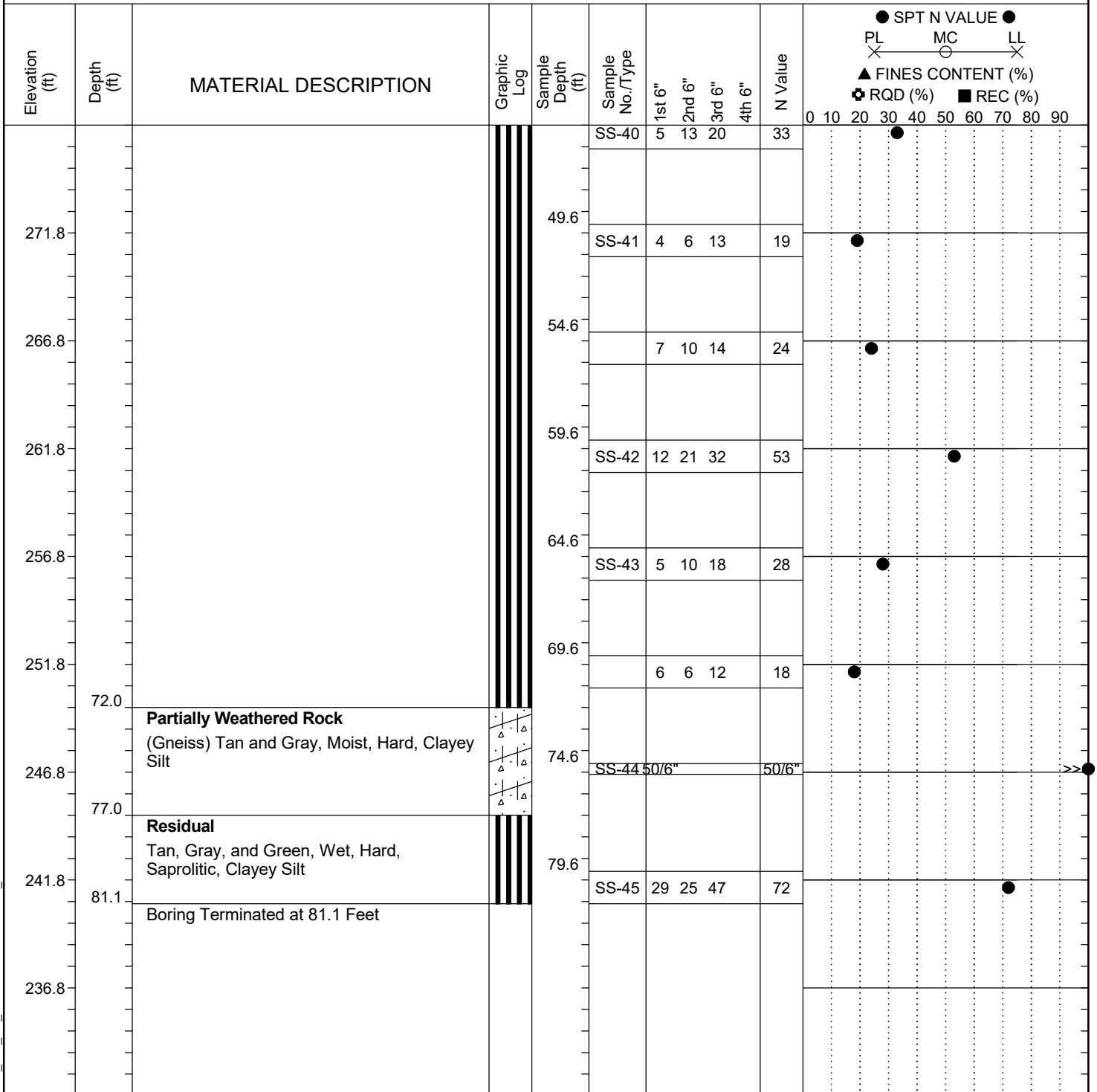
Project ID:	P039719	County:	Richland	Boring No.:	G-127
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	204+24	Offset:	116 RT
Elev.:	321.8 ft	Latitude:	34.03926754	Longitude:	-81.09317171
Total Depth:	81.1 ft	Soil Depth:	81.1 ft	Date Started:	3/1/2022
Core Depth:	N/A ft	Date Completed:	3/2/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	Casing w/ Adv	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	24HR	34 ft


LEGEND
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SC_DOT_20-81_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 4/20/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

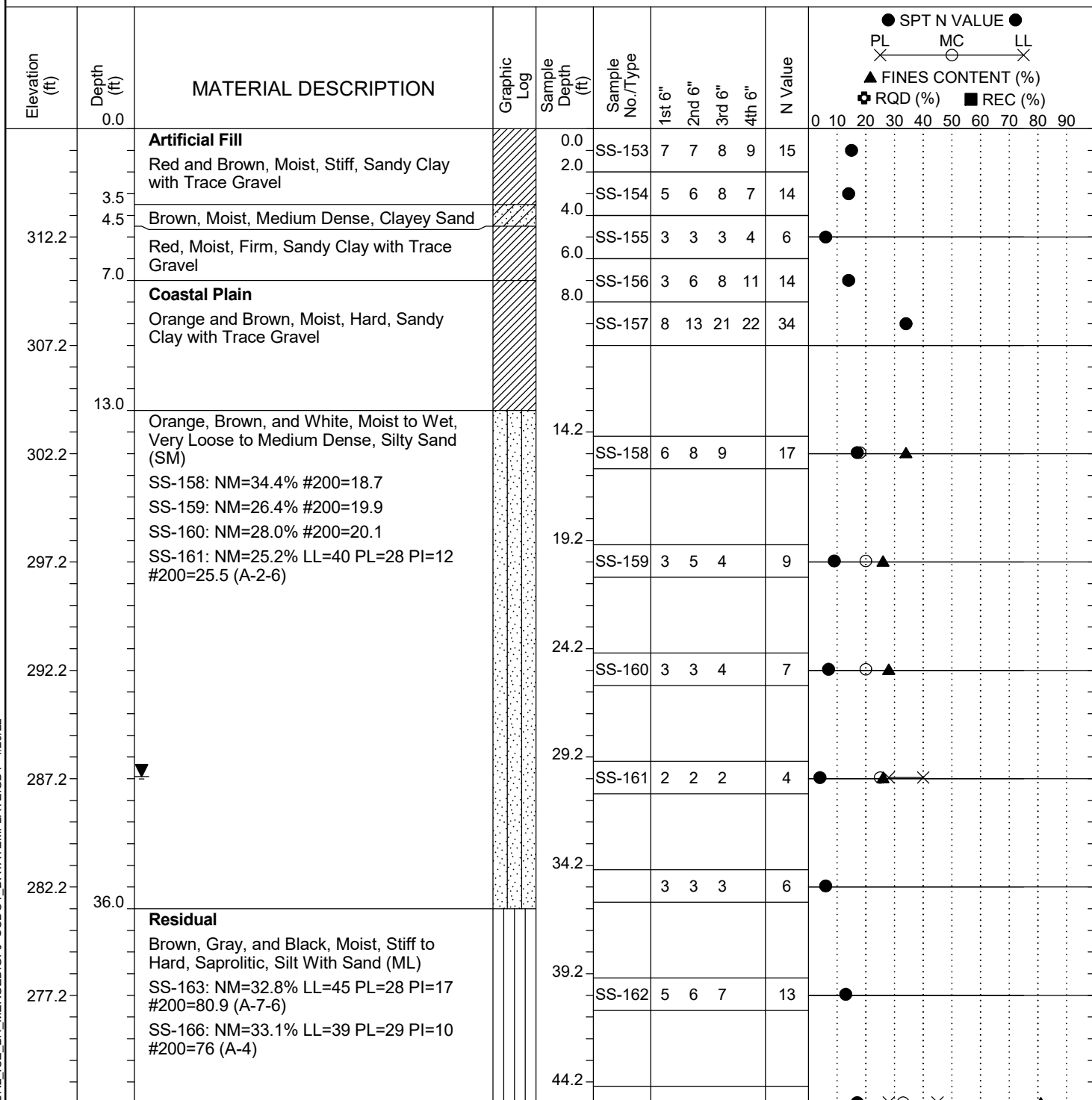
Project ID:	P039719	County:	Richland	Boring No.:	G-127
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	C. McIlroy	Boring Location:	204+24	Offset:	116 RT
Elev.:	321.8 ft	Latitude:	34.03926754	Longitude:	-81.09317171
Total Depth:	81.1 ft	Soil Depth:	81.1 ft	Date Started:	3/1/2022
Core Depth:	N/A ft	Date Completed:	3/2/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #435	Drill Method:	Casing w/ Adv	Hammer Type:	Automatic
Core Size:	N/A	Driller:	M. Morgan	Energy Ratio:	84.4%
		Groundwater:	TOB	24HR	34 ft



LEGEND

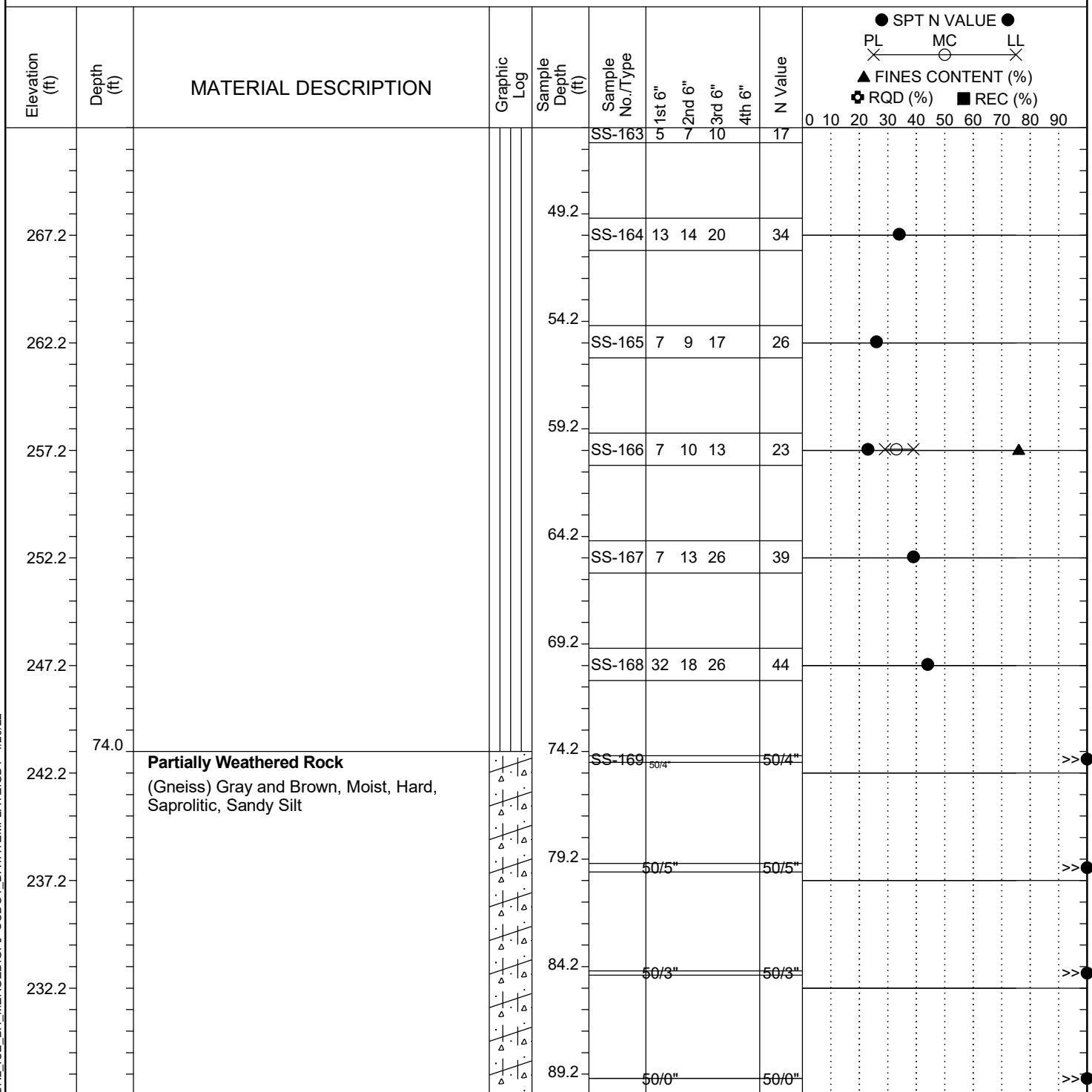
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-128
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+30	Offset:	100 LT
Elev.:	317.2 ft	Latitude:	34.03980564	Longitude:	-81.09347298
Total Depth:	99.2 ft	Soil Depth:	99.2 ft	Date Started:	2/21/2022
Core Depth:	N/A ft	Date Completed:	2/21/2022	Alignment:	I20CL
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	29.9 ft


LEGEND
Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-128
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+30	Offset:	100 LT
Elev.:	317.2 ft	Latitude:	34.03980564	Longitude:	-81.09347298
Total Depth:	99.2 ft	Soil Depth:	99.2 ft	Date Started:	2/21/2022
Core Depth:	N/A ft	Date Completed:	2/21/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	29.9 ft



LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

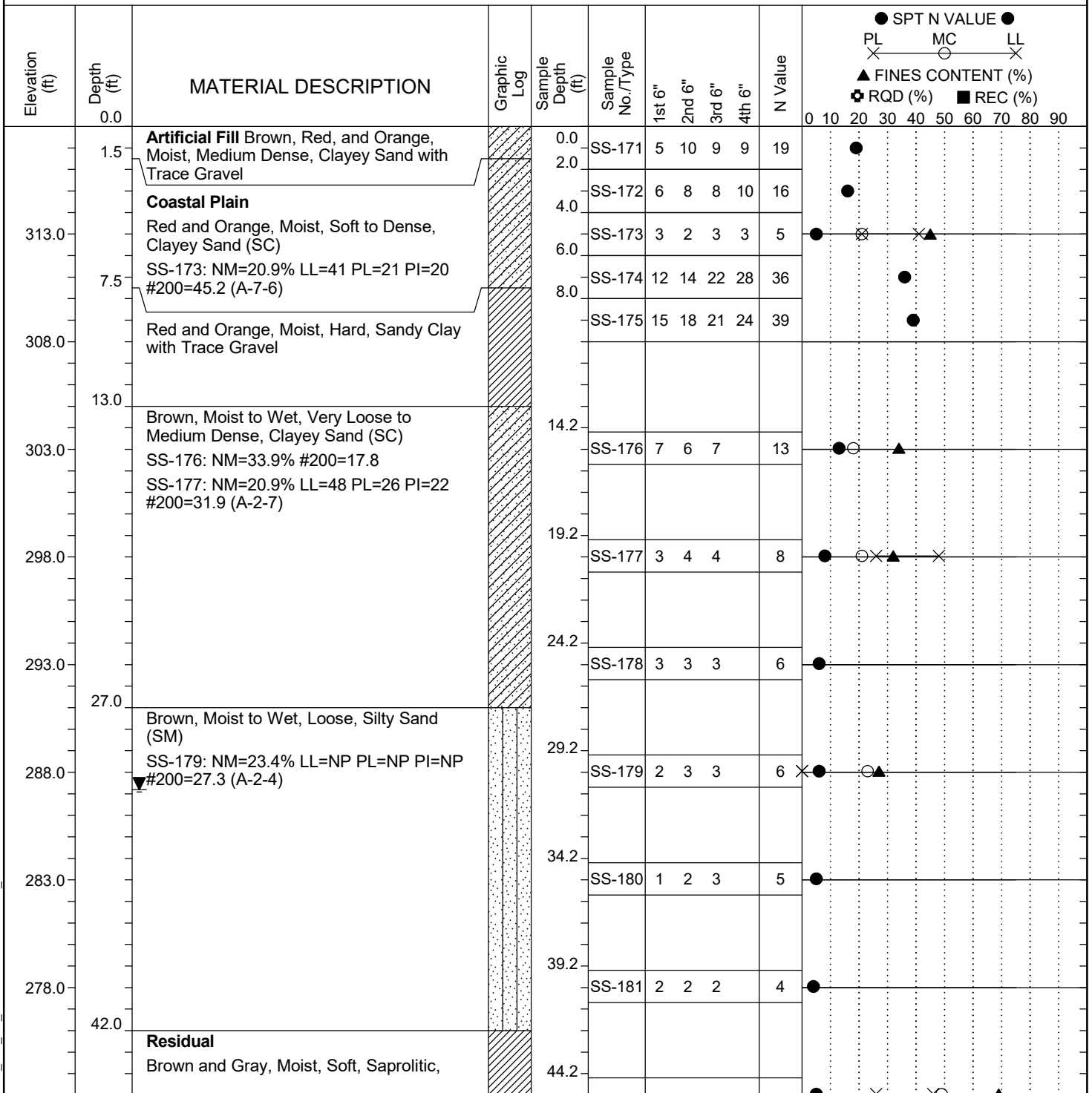
Project ID:	P039719	County:	Richland	Boring No.:	G-128
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+30	Offset:	100 LT
Elev.:	317.2 ft	Latitude:	34.03980564	Longitude:	-81.09347298
Total Depth:	99.2 ft	Soil Depth:	99.2 ft	Date Started:	2/21/2022
Core Depth:	N/A ft	Date Completed:	2/21/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	29.9 ft

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	● SPT N VALUE ● PL MC LL X—X—X ▲ FINES CONTENT (%) + RQD (%) ■ REC (%) 0 10 20 30 40 50 60 70 80 90
222.2				94.2	SS-170	28	50/3"			50/3"	>>●
217.2	99.2	Boring Terminated at 99.2 Feet		99.2		50/0"				50/0"	>>●
212.2											
207.2											
202.2											
197.2											
192.2											
187.2											

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-129
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+23	Offset:	130 LT
Elev.:	318.0 ft	Latitude:	34.03987182	Longitude:	-81.09353695
Date Started:	2/22/2022				
Total Depth:	64.5 ft	Soil Depth:	64.5 ft	Core Depth:	N/A ft
Date Completed:	2/22/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Liner Used:	Y (N)				
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
24HR	30.8 ft				



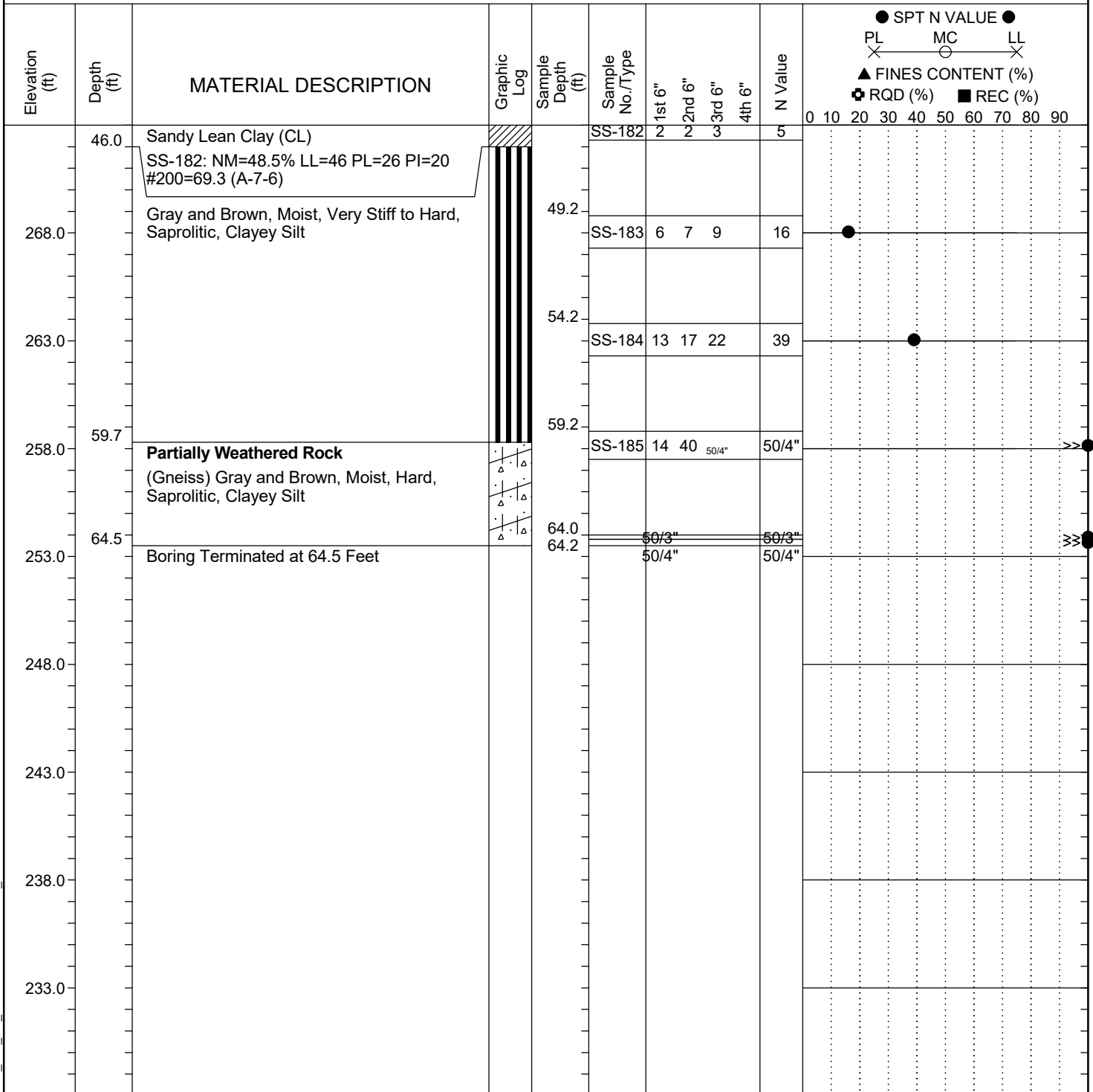
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SC.DOT 20-81_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 4/20/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

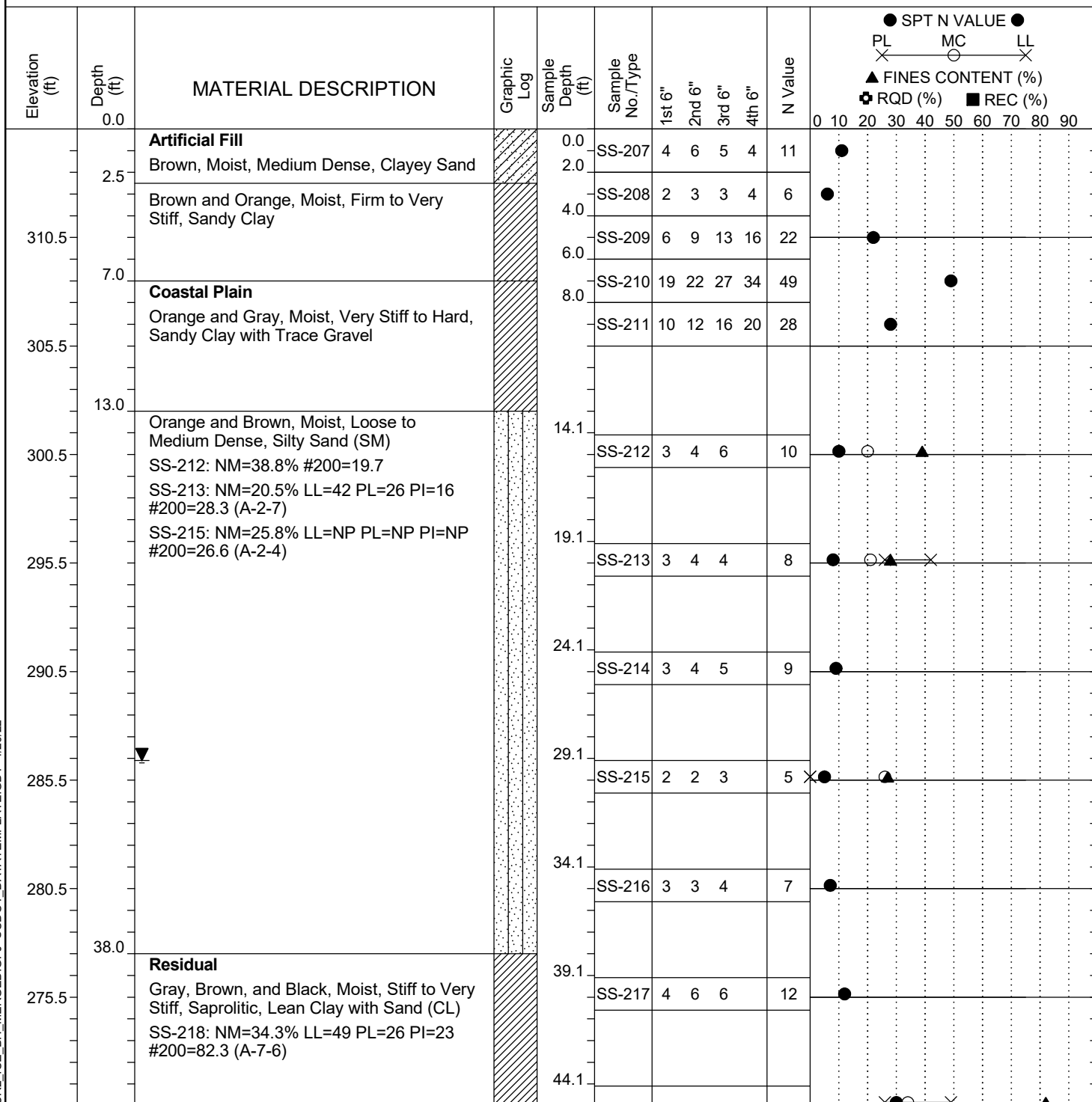
Project ID:	P039719	County:	Richland	Boring No.:	G-129
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+23	Offset:	130 LT
Elev.:	318.0 ft	Latitude:	34.03987182	Longitude:	-81.09353695
Total Depth:	64.5 ft	Soil Depth:	64.5 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				Energy Ratio:	90.8%
				24HR	30.8 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-130
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+99	Offset:	104 LT
Elev.:	315.5 ft	Latitude:	34.03990117	Longitude:	-81.09327556
Date Started:	2/24/2022				
Total Depth:	70.5 ft	Soil Depth:	70.5 ft	Core Depth:	N/A ft
Date Completed:	2/24/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
24HR	29.1 ft				



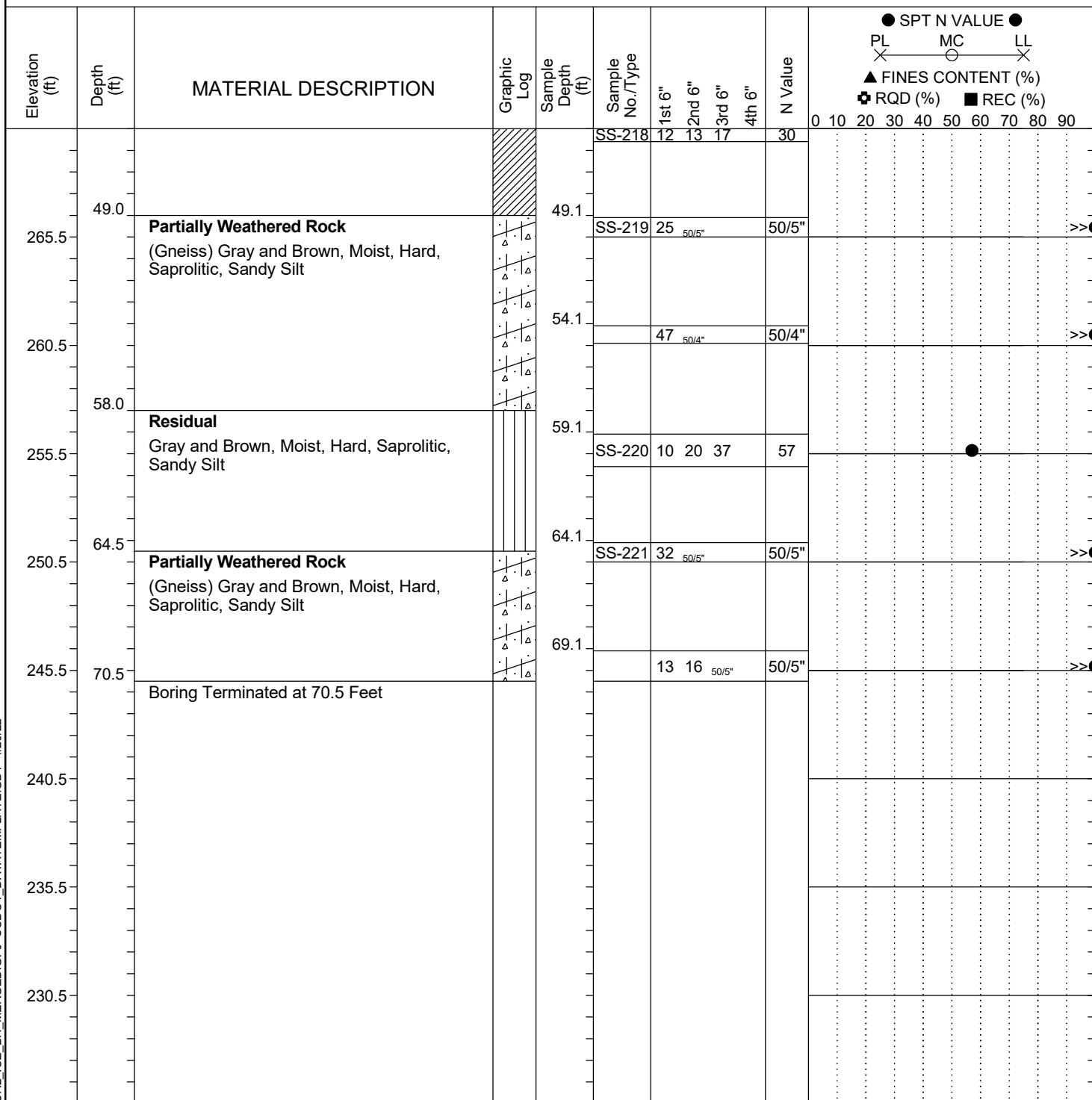
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SC_DOT 20-01_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 4/20/22

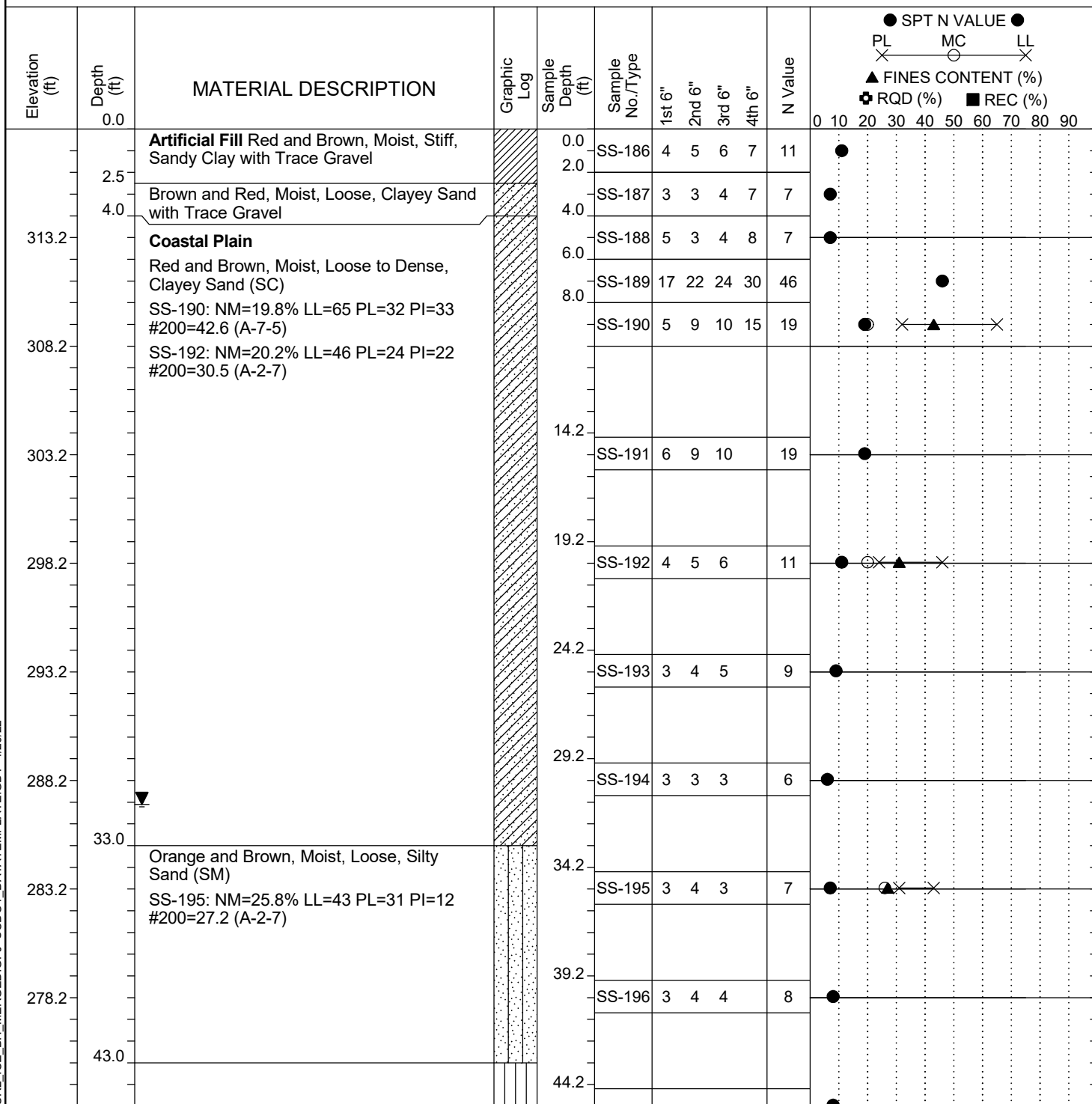
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID: P039719				County: Richland		Boring No.: G-130		
Site Description:		Carolina Crossroads Phase 2					Route:	Broad River Rd.
Eng./Geo.: M. Stanbury		Boring Location: 204+99		Offset: 104 LT		Alignment: I20CL		
Elev.: 315.5 ft	Latitude: 34.03990117	Longitude: -81.09327556		Date Started:		2/24/2022		
Total Depth: 70.5 ft	Soil Depth: 70.5 ft	Core Depth: N/A ft		Date Completed:		2/24/2022		
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #439	Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 90.8%			
Core Size: N/A	Driller: R. Cassell		Groundwater: TOB N/A		24HR	29.1 ft		


LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-131
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	203+85	Offset:	118 LT
Elev.:	318.2 ft	Latitude:	34.03979585	Longitude:	-81.09362896
Total Depth:	109.2 ft	Soil Depth:	109.2 ft	Date Started:	2/23/2022
Core Depth:	N/A ft	Date Completed:	2/23/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	31.1 ft

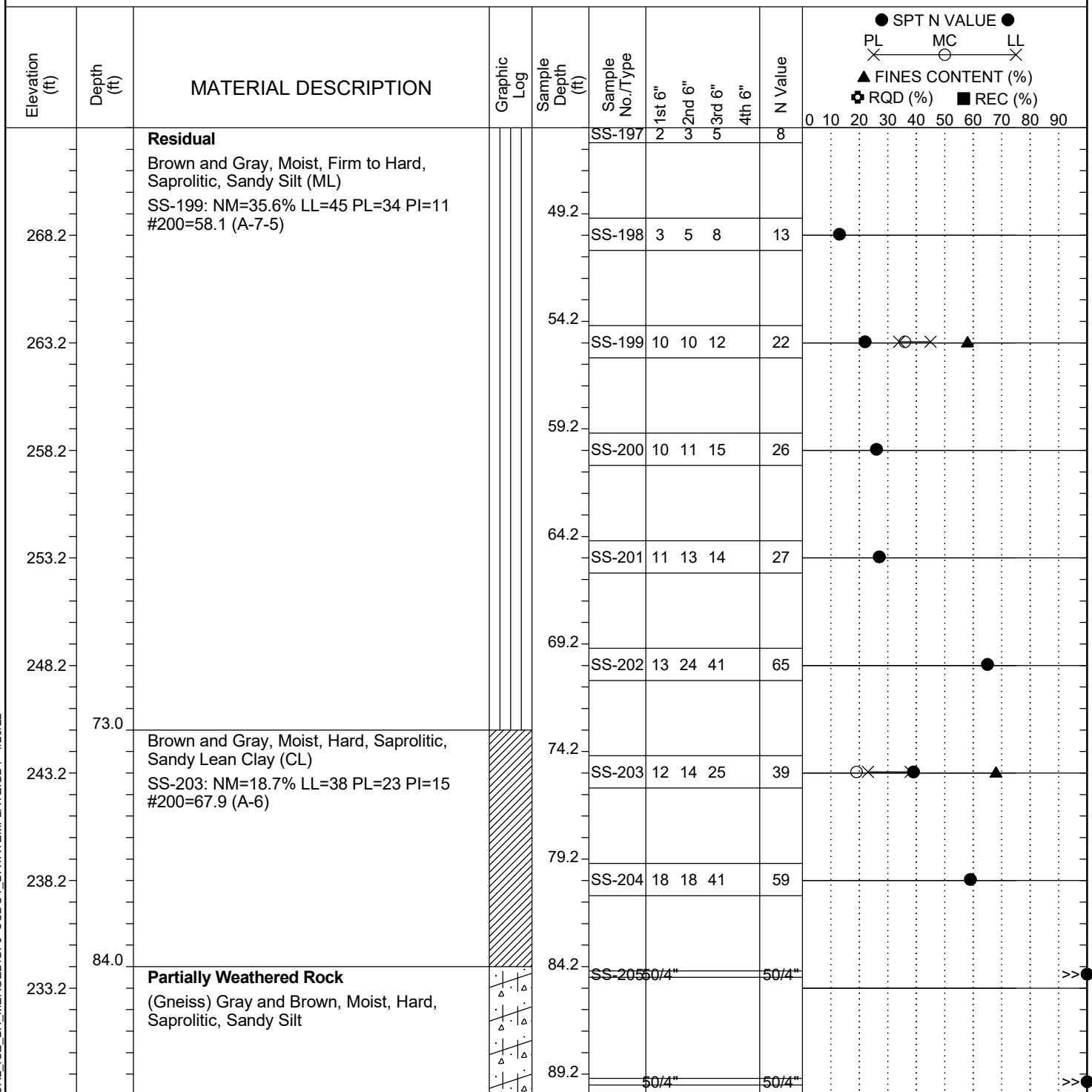


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-131
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	203+85	Offset:	118 LT
Elev.:	318.2 ft	Latitude:	34.03979585	Longitude:	-81.09362896
Total Depth:	109.2 ft	Soil Depth:	109.2 ft	Date Started:	2/23/2022
Core Depth:	N/A ft	Date Completed:	2/23/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	31.1 ft



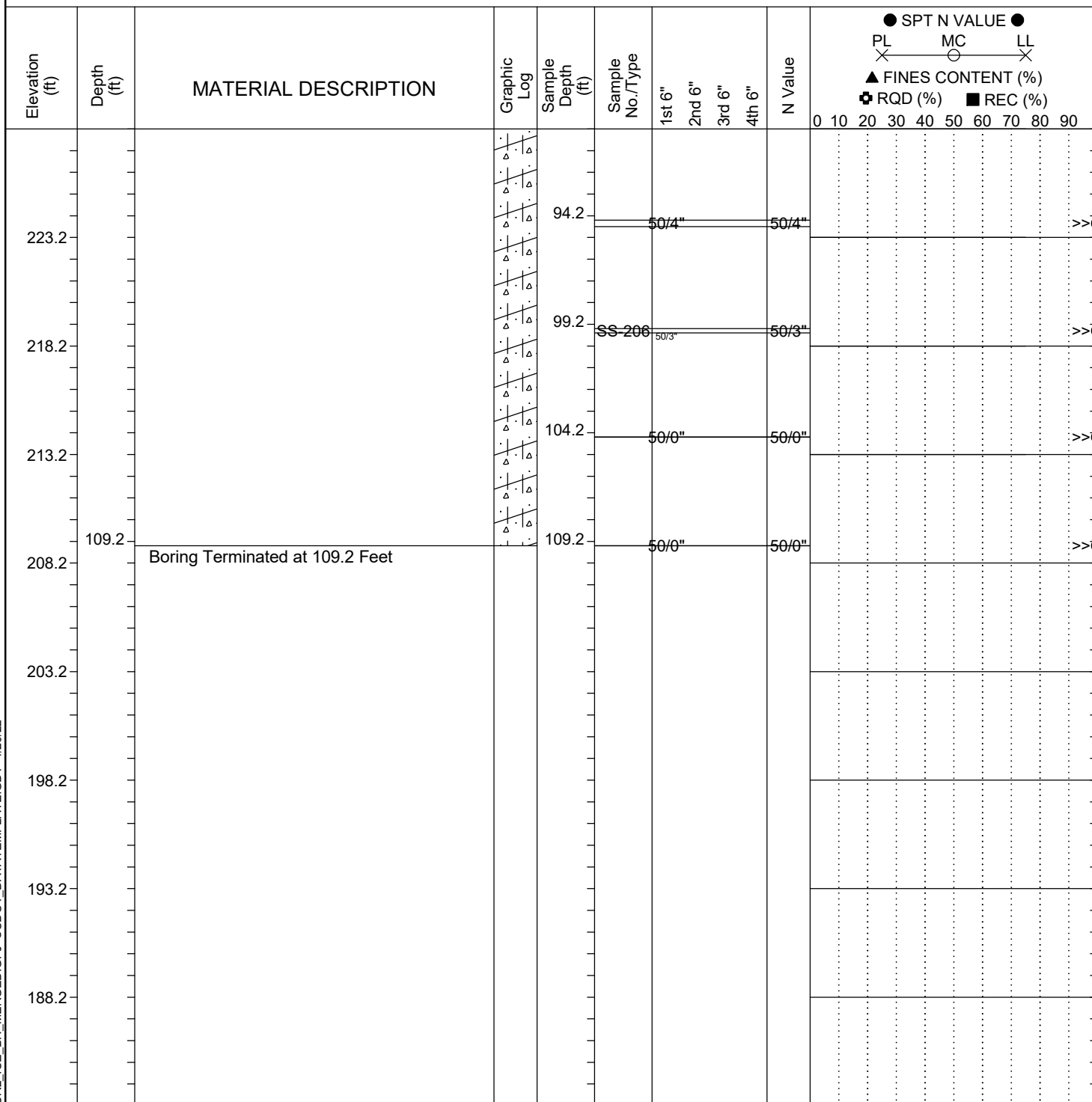
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SC.DOT 20-81_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 4/20/22

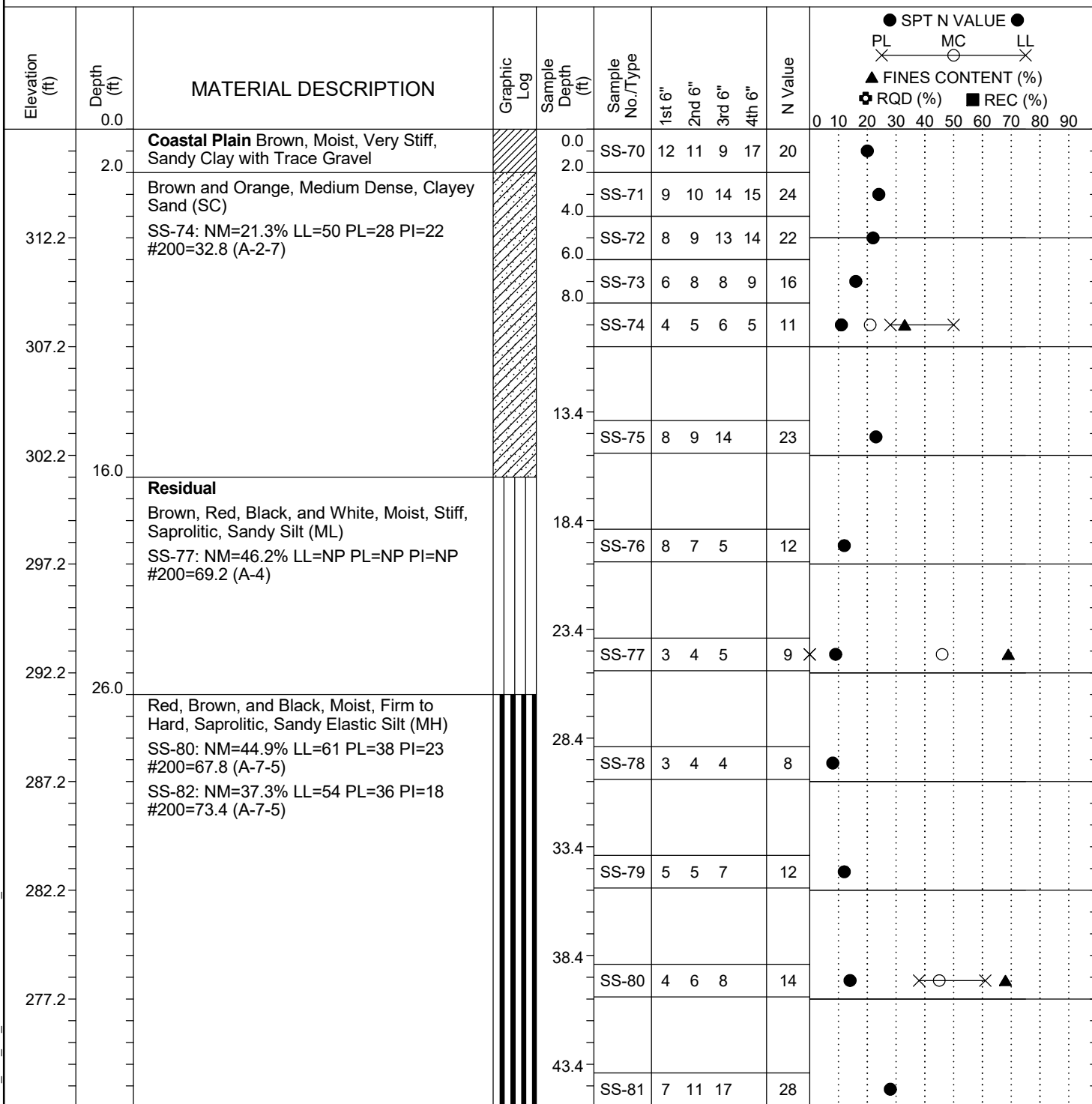
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-131
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	203+85	Offset:	118 LT
Elev.:	318.2 ft	Latitude:	34.03979585	Longitude:	-81.09362896
Total Depth:	109.2 ft	Soil Depth:	109.2 ft	Date Started:	2/23/2022
Core Depth:	N/A ft	Date Completed:	2/23/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	31.1 ft


LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-136
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+74	Offset:	96 RT
Elev.:	317.2 ft	Latitude:	34.03937832	Longitude:	-81.09305308
Total Depth:	83.6 ft	Soil Depth:	83.6 ft	Date Started:	2/14/2022
Core Depth:	N/A ft	Date Completed:	2/14/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A

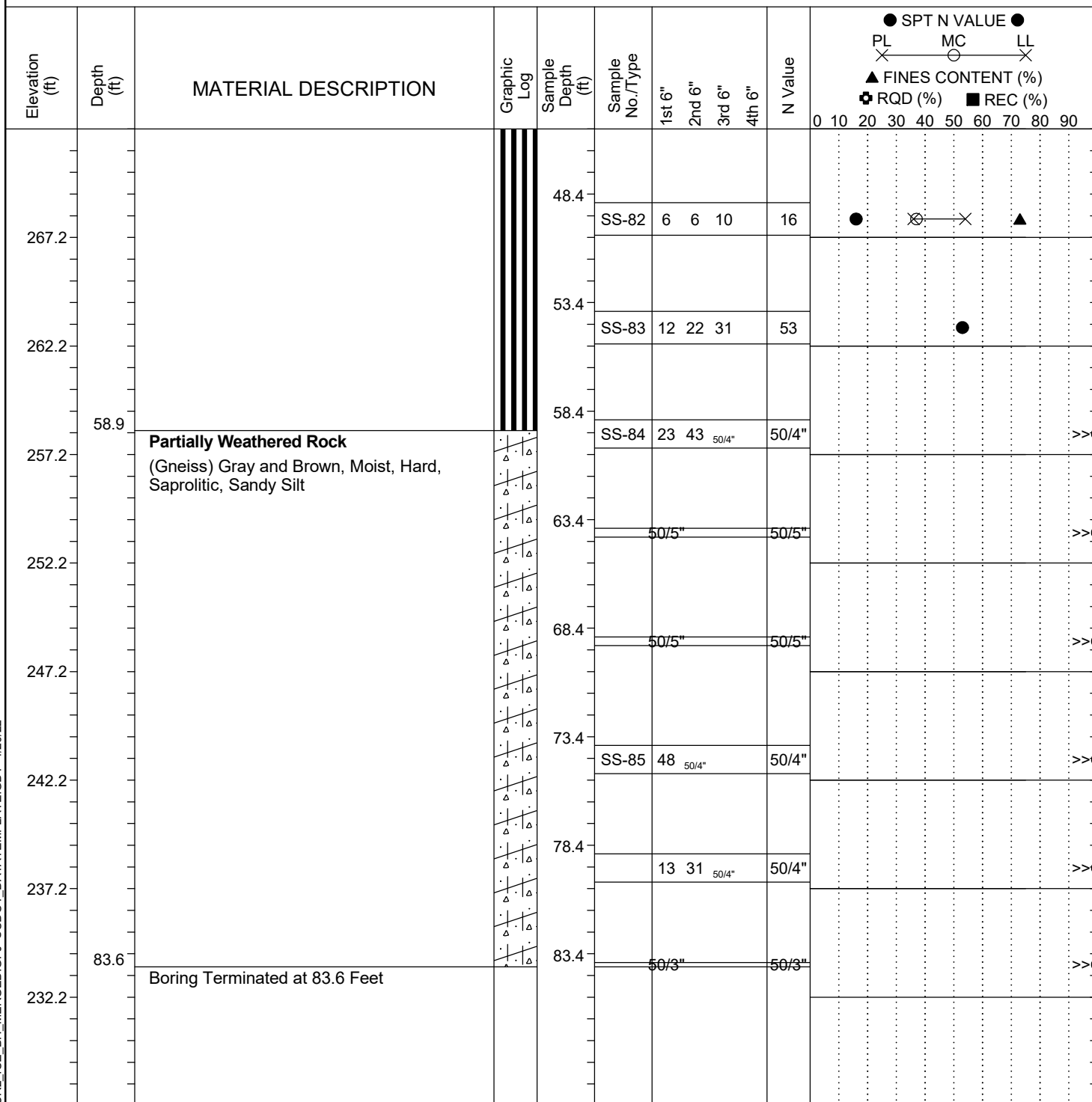


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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

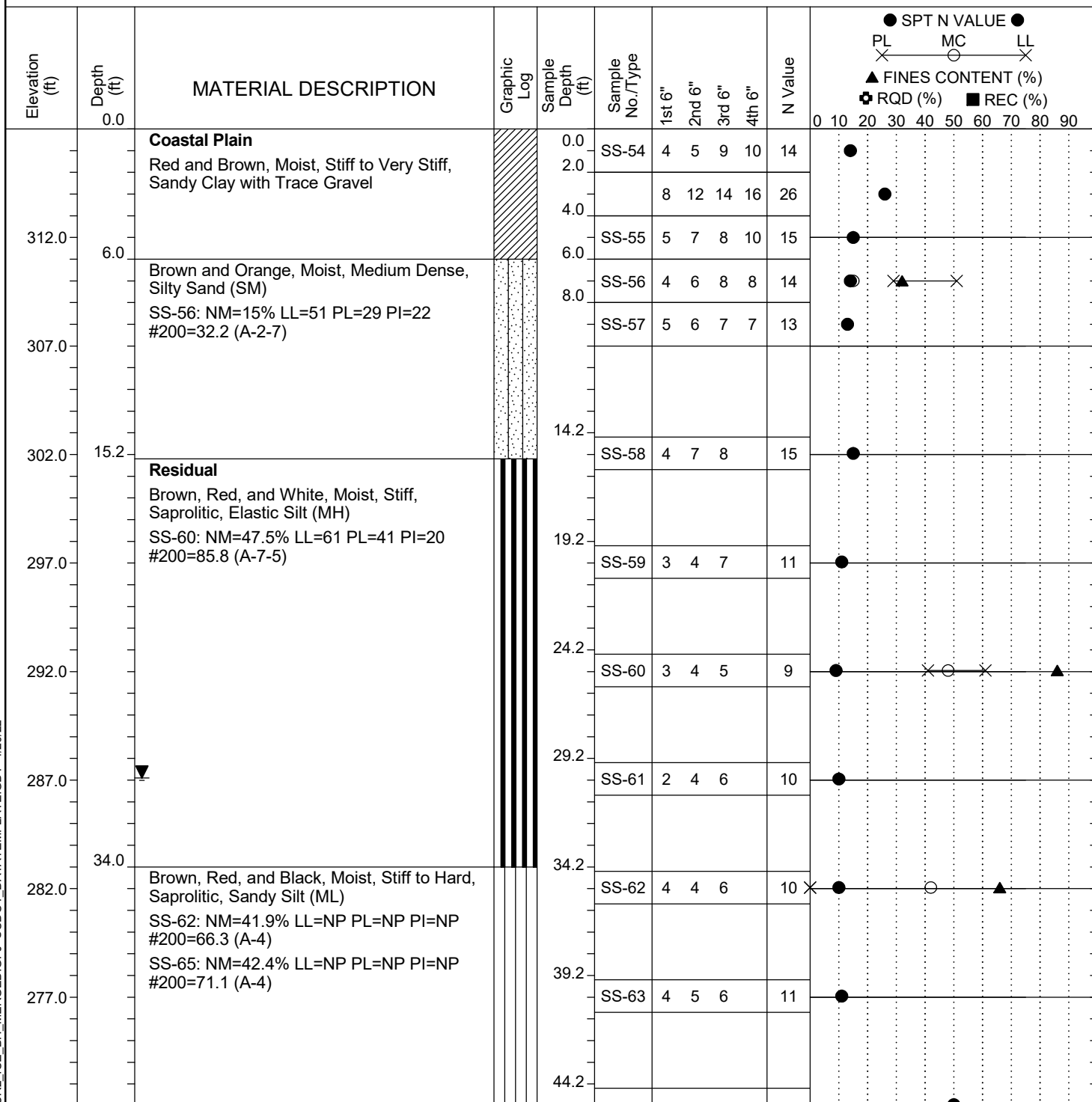
Project ID:	P039719	County:	Richland	Boring No.:	G-136
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+74	Offset:	96 RT
Elev.:	317.2 ft	Latitude:	34.03937832	Longitude:	-81.09305308
Total Depth:	83.6 ft	Soil Depth:	83.6 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				Energy Ratio:	90.8%
				24HR	



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-138
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	205+04	Offset:	99 RT
Elev.:	317.0 ft	Latitude:	34.03940888	Longitude:	-81.09295977
Total Depth:	90.7 ft	Soil Depth:	90.7 ft	Date Started:	2/10/2022
Core Depth:	N/A ft	Date Completed:	2/10/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Energy Ratio:	90.8%
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	29.9 ft



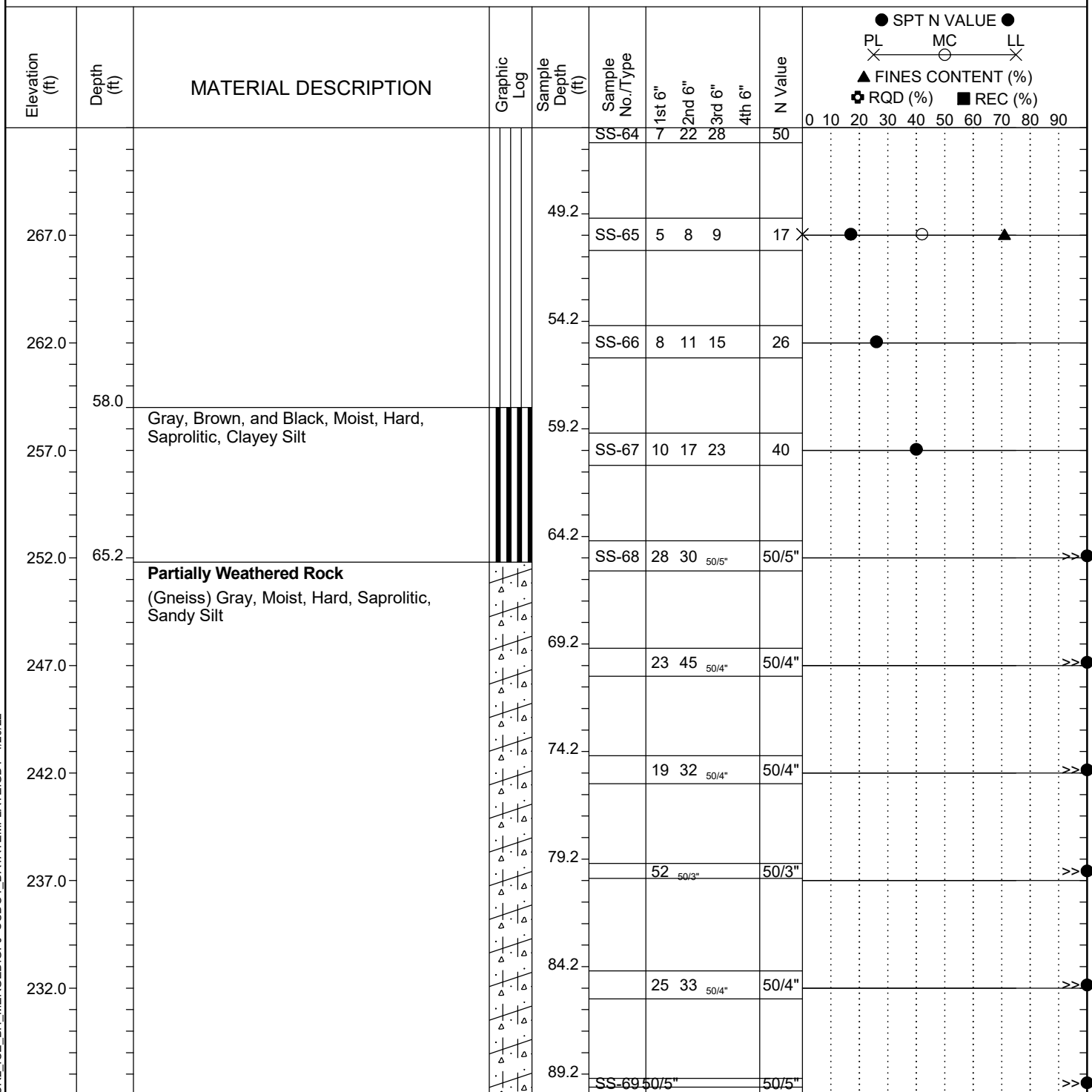
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SC.DOT 20-81_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 4/20/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-138
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	205+04	Offset:	99 RT
Elev.:	317.0 ft	Latitude:	34.03940888	Longitude:	-81.09295977
Date Started:	2/10/2022				
Total Depth:	90.7 ft	Soil Depth:	90.7 ft	Core Depth:	N/A ft
Date Completed:	2/10/2022				
Bore Hole Diameter (in):	2.25	Sampler Configuration	Liner Required: Y (N)		Liner Used: Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
24HR	29.9 ft				



LEGEND

Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

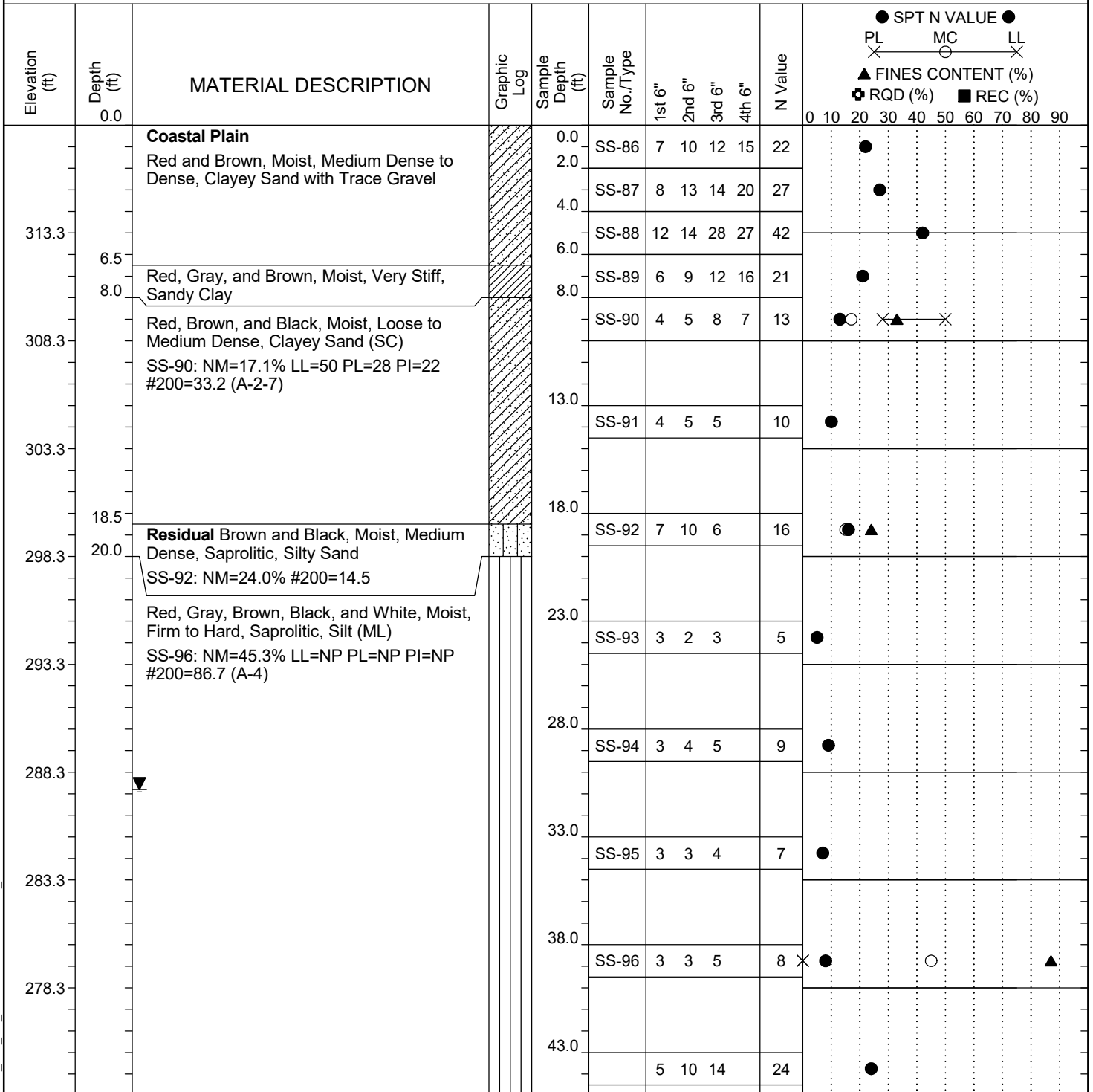
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Site Description:		Carolina Crossroads Phase 2								Route:		Broad River Rd.					
Eng./Geo.:		M. Stanbury		Boring Location:		205+04		Offset:		99 RT		Alignment:		I20CL			
Elev.:		317.0 ft		Latitude:		34.03940888		Longitude:		-81.09295977		Date Started:		2/10/2022			
Total Depth:		90.7 ft		Soil Depth:		90.7 ft		Core Depth:		N/A ft		Date Completed:		2/10/2022			
Bore Hole Diameter (in):			2.25		Sampler Configuration			Liner Required:			Y (N)		Liner Used:		Y (N)		
Drill Machine:		D-50 #439		Drill Method:		RW		Hammer Type:			Automatic		Energy Ratio:		90.8%		
Core Size:		N/A		Driller:		R. Cassell		Groundwater:		TOB		N/A		24HR		29.9 ft	

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	● SPT N VALUE ● PL — MC — LL X — X — X ▲ FINES CONTENT (%) + RQD (%) ■ REC (%) 0 10 20 30 40 50 60 70 80 90
222.0	90.7	Boring Terminated at 90.7 Feet									
217.0											
212.0											
207.0											
202.0											
197.0											
192.0											
187.0											

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-139
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	204+92	Offset:	107 RT
Elev.:	318.3 ft	Latitude:	34.03937442	Longitude:	-81.0929833
Total Depth:	69.4 ft	Soil Depth:	69.4 ft	Date Started:	2/15/2022
Core Depth:	N/A ft	Date Completed:	2/15/2022	Alignment:	I20CL
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Liner Used:	Y (N)
Core Size:	N/A	Hammer Type:	Automatic	Energy Ratio:	90.8%
Driller:	R. Cassell	Groundwater:	TOB	24HR	30.8 ft

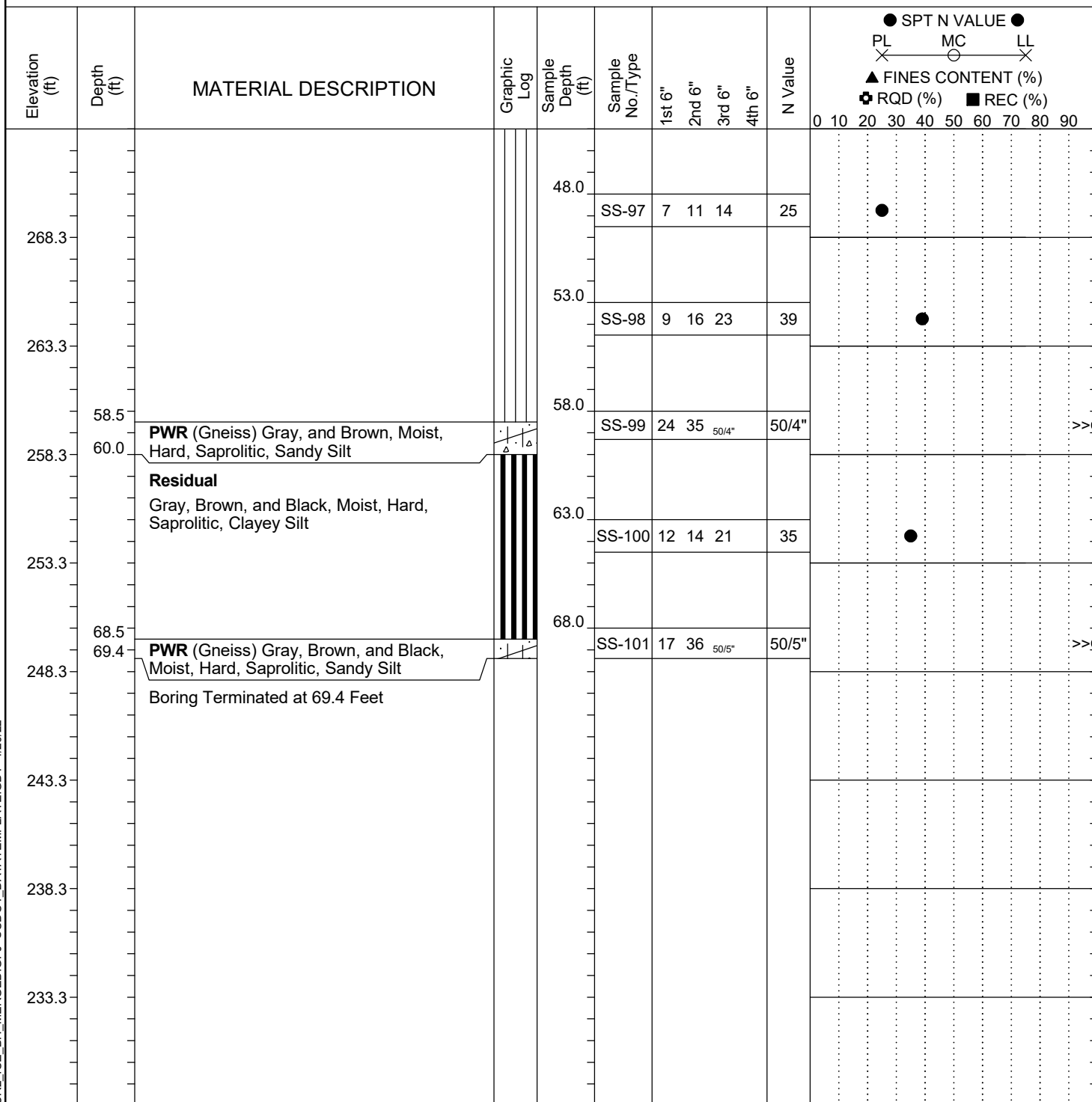


LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

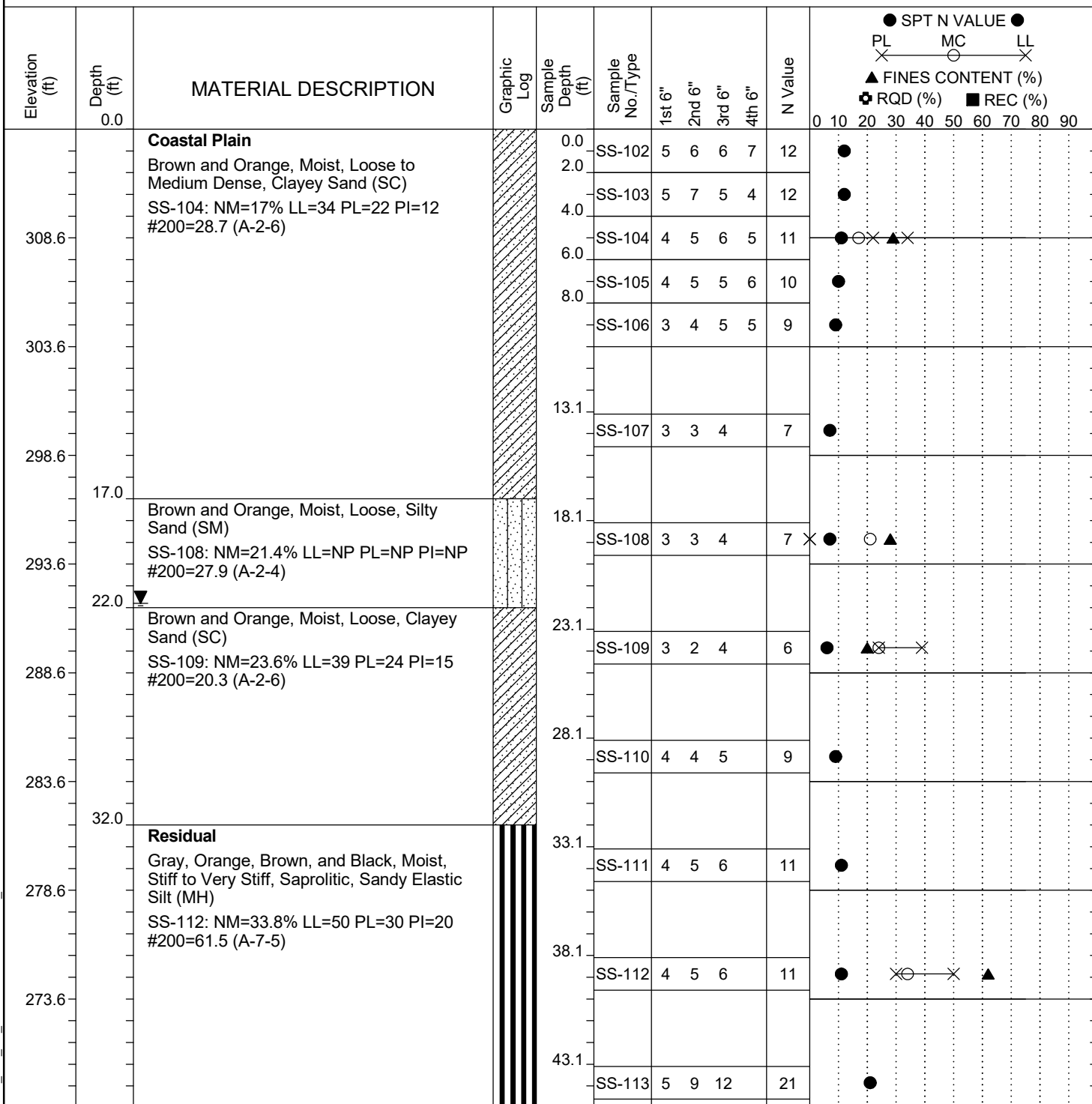
Project ID: P039719				County: Richland		Boring No.: G-139		
Site Description:		Carolina Crossroads Phase 2					Route:	Broad River Rd.
Eng./Geo.: M. Stanbury		Boring Location: 204+92		Offset: 107 RT		Alignment: I20CL		
Elev.: 318.3 ft	Latitude: 34.03937442	Longitude: -81.0929833		Date Started: 2/15/2022				
Total Depth: 69.4 ft	Soil Depth: 69.4 ft	Core Depth: N/A ft		Date Completed: 2/15/2022				
Bore Hole Diameter (in): 2.25		Sampler Configuration		Liner Required: Y (N)		Liner Used: Y (N)		
Drill Machine: D-50 #439	Drill Method: RW		Hammer Type: Automatic		Energy Ratio: 90.8%			
Core Size: N/A	Driller: R. Cassell		Groundwater: TOB N/A		24HR 30.8 ft			



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	G-140
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	205+98	Offset:	90 RT
Elev.:	313.6 ft	Latitude:	34.03954703	Longitude:	-81.09269585
Total Depth:	63.4 ft	Soil Depth:	63.4 ft	Date Started:	2/16/2022
Core Depth:	N/A ft	Date Completed:	2/16/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	21.8 ft

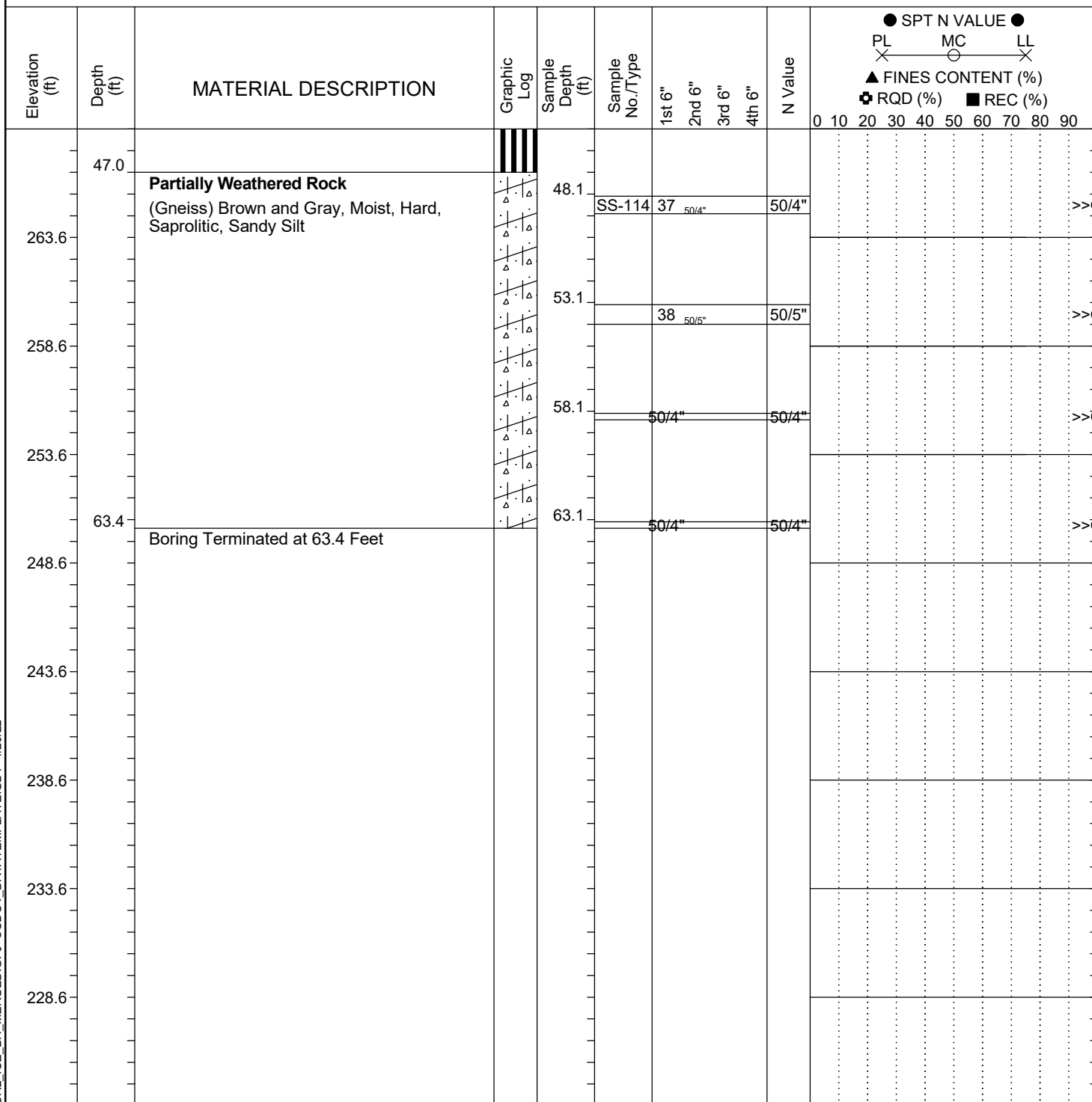


LEGEND

Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

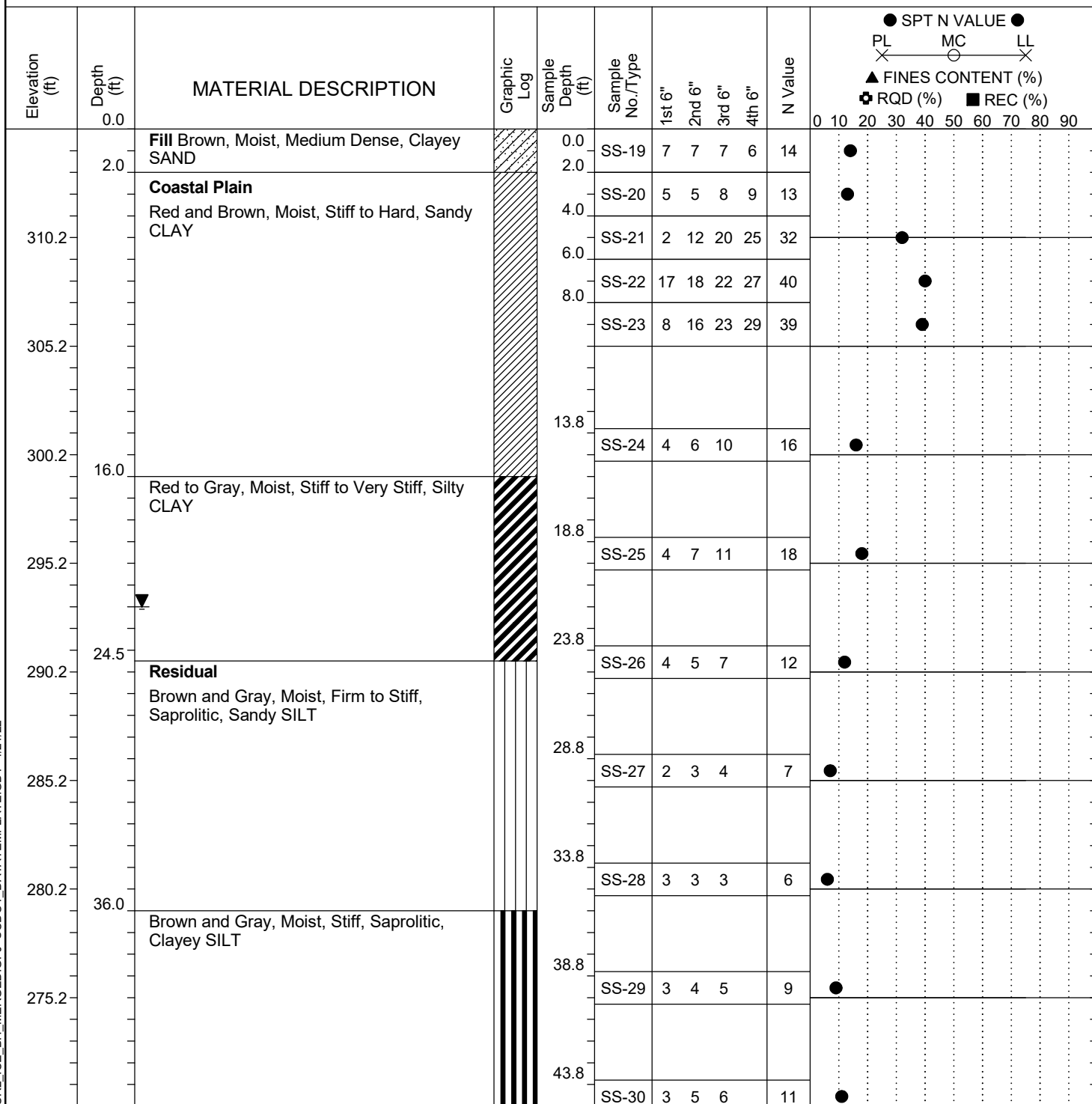
Project ID:	P039719	County:	Richland	Boring No.:	G-140
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	205+98	Offset:	90 RT
Elev.:	313.6 ft	Latitude:	34.03954703	Longitude:	-81.09269585
Total Depth:	63.4 ft	Soil Depth:	63.4 ft	Date Started:	2/16/2022
Core Depth:	N/A ft	Date Completed:	2/16/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	21.8 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	P-1
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	611+01	Offset:	113 LT
Elev.:	315.2 ft	Latitude:	34.04030662	Longitude:	-81.09426192
Total Depth:	70.2 ft	Soil Depth:	70.2 ft	Date Started:	2/8/2022
Core Depth:	N/A ft	Date Completed:	2/9/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	22 ft



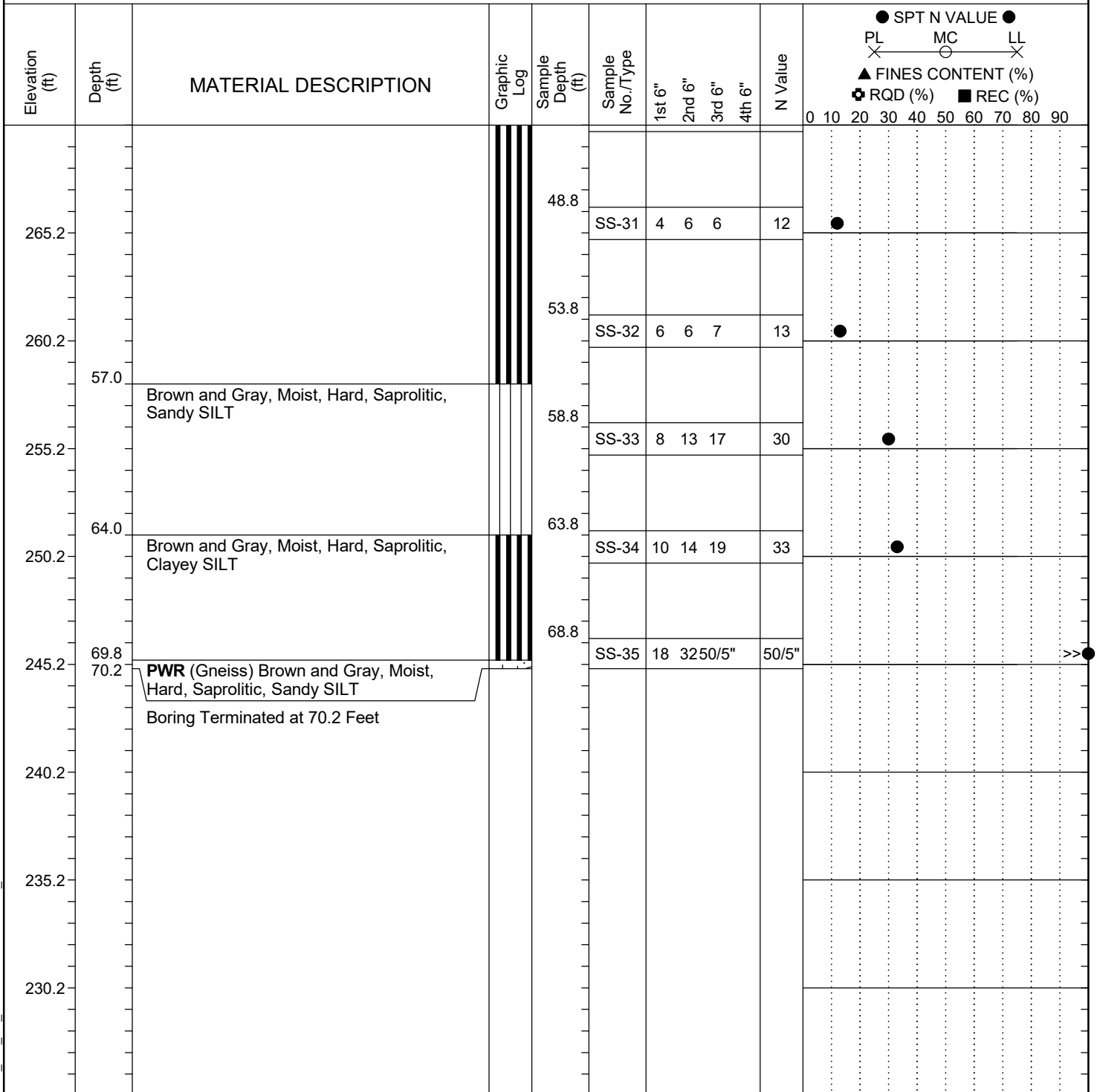
LEGEND

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SC.DOT 20-81_CCR2_ICE_BH_MERGED.GPJ SCDOT_DATATEMPLATE.GDT 4/21/22

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

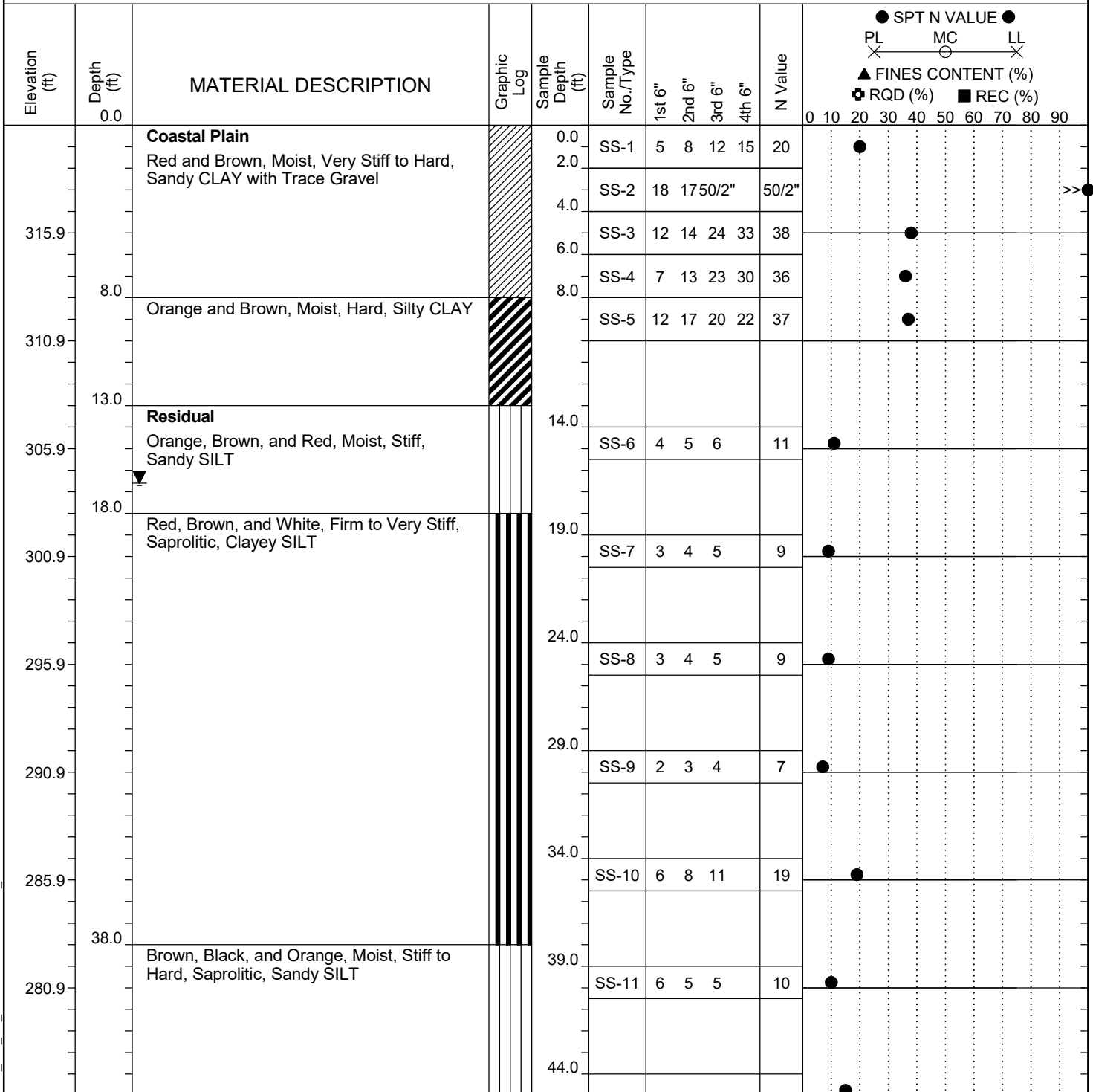
Project ID:	P039719	County:	Richland	Boring No.:	P-1
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Eng./Geo.:	M. Stanbury	Boring Location:	611+01	Offset:	113 LT
Elev.:	315.2 ft	Latitude:	34.04030662	Longitude:	-81.09426192
Total Depth:	70.2 ft	Soil Depth:	70.2 ft	Core Depth:	N/A ft
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
				24HR	22 ft



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	P-2
Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	M. Stanbury	Boring Location:	206+25	Offset:	70 LT
Elev.:	320.9 ft	Latitude:	34.04056141	Longitude:	-81.09312684
Total Depth:	75.5 ft	Soil Depth:	75.5 ft	Date Started:	2/8/2022
Core Depth:	N/A ft	Date Completed:	2/8/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	16.6 ft

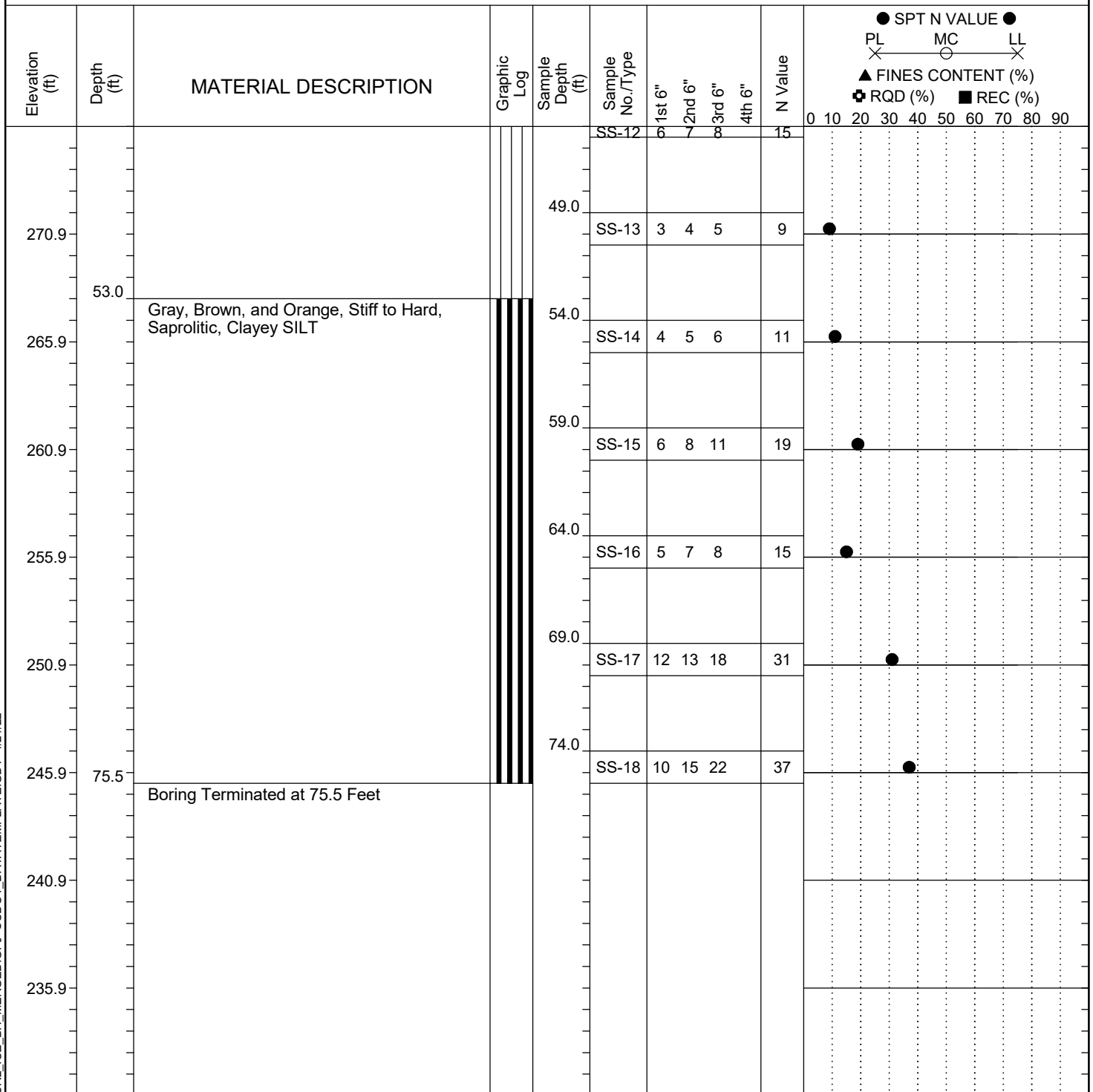


LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

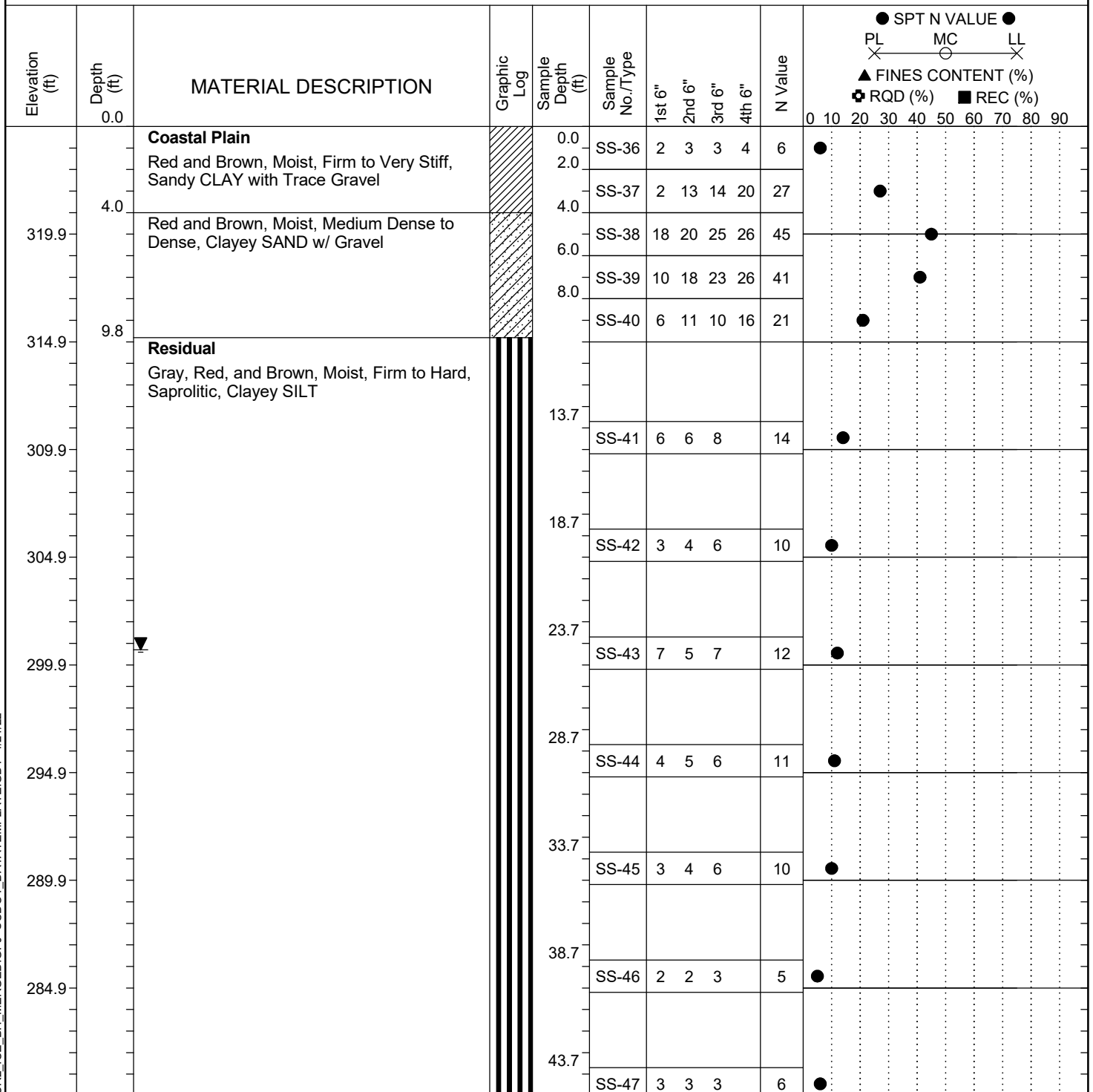
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Site Description:	Carolina Crossroads Phase 2			Route:	Ramp
Eng./Geo.:	M. Stanbury	Boring Location:	206+25	Offset:	70 LT
Elev.:	320.9 ft	Latitude:	34.04056141	Longitude:	-81.09312684
Total Depth:	75.5 ft	Soil Depth:	75.5 ft	Date Started:	2/8/2022
Core Depth:	N/A ft	Date Completed:	2/8/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Liner Used:	Y (N)				
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	90.8%				
Core Size:	N/A	Driller:	R. Cassell	Groundwater:	TOB N/A
24HR	16.6 ft				



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	P-3
Site Description:	Carolina Crossroads Phase 2			Route:	N/A
Eng./Geo.:	M. Stanbury	Boring Location:	207+03	Offset:	97 RT
Elev.:	324.9 ft	Latitude:	34.0392309	Longitude:	-81.09205509
Total Depth:	75.2 ft	Soil Depth:	75.2 ft	Date Started:	2/9/2022
Core Depth:	N/A ft	Date Completed:	2/10/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	24HR	24.3 ft

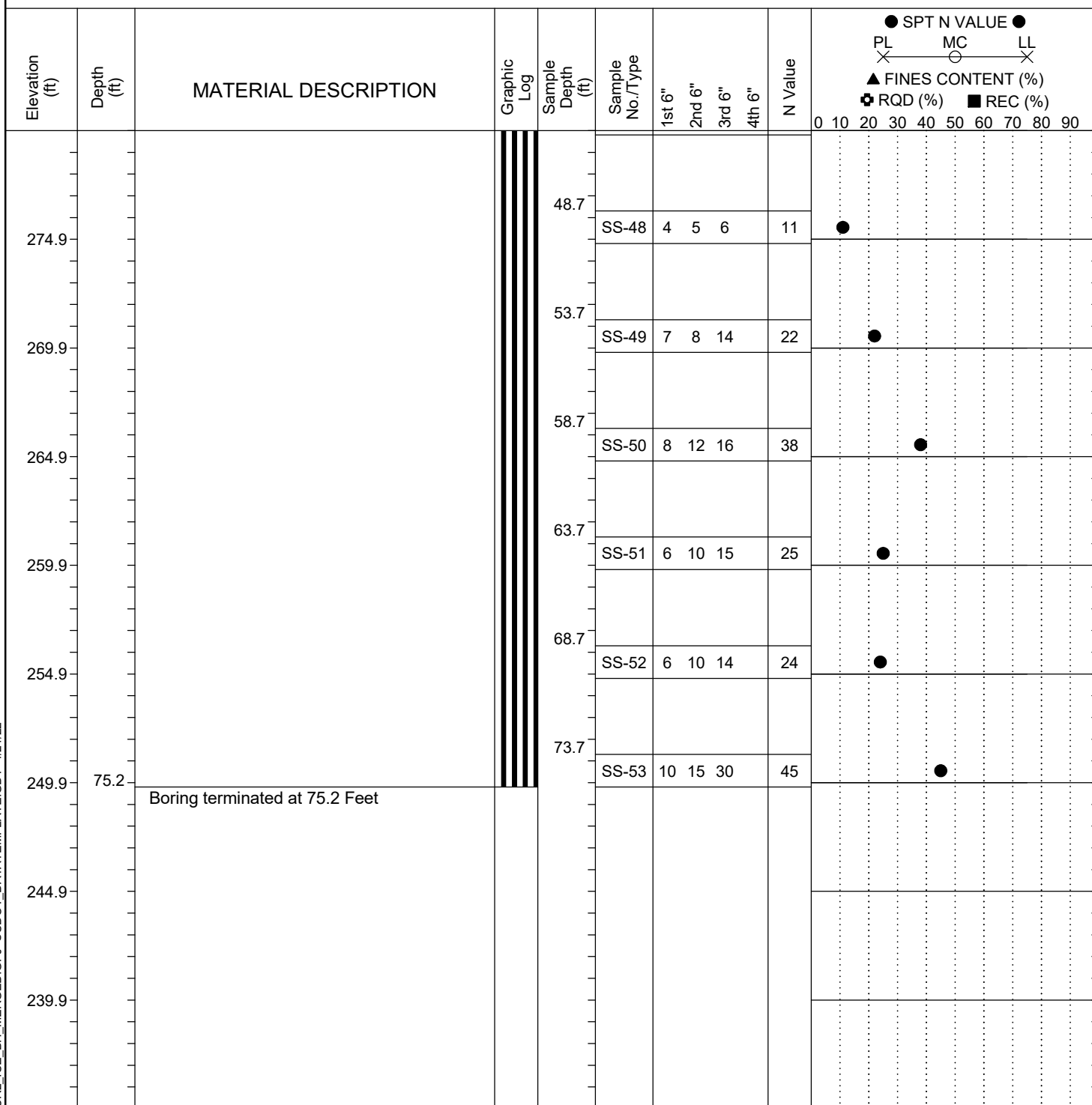


LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	P-3
Site Description:	Carolina Crossroads Phase 2			Route:	N/A
Eng./Geo.:	M. Stanbury	Boring Location:	207+03	Offset:	97 RT
Elev.:	324.9 ft	Latitude:	34.0392309	Longitude:	-81.09205509
Total Depth:	75.2 ft	Soil Depth:	75.2 ft	Date Started:	2/9/2022
Core Depth:	N/A ft	Date Completed:	2/10/2022		
Bore Hole Diameter (in):	2.25	Sampler Configuration		Liner Required:	Y (N)
Drill Machine:	D-50 #439	Drill Method:	RW	Hammer Type:	Automatic
Core Size:	N/A	Driller:	R. Cassell	Energy Ratio:	90.8%
		Groundwater:	TOB	N/A	24HR
					24.3 ft


LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

Project ID:	P039719	County:	Richland	Boring No.:	DR-1
Site Description:	Carolina Crossroads Phase 2			Route:	I-20
Driller:	C. McIlroy	Boring Location:	168+60	Offset:	170 LT
Elev.:	273.3 ft	Latitude:	34.03872764	Longitude:	-81.10498506
Total Depth:	1.5 ft	Groundwater:	TOB	Date Started:	4/6/2022
Dynamic Cone Penetrometer Test Procedure:	Sowers and Hedges (1966)				

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	DCP-Value	● DCP-VALUE ● PL — MC — LL ▲ FINES CONTENT (%)
	0.0	▼ Alluvial Gray and Tan, Wet, Silty Sand		0.0	SS-1	2	1	1		1	
	0.5			0.5							
	1.0			1.0		2	1	0		0	
	1.5			1.5		2	1	0		0	
		Auger Refusal at 1.5 Feet				2	0	1		0	
268.3											
263.3											

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	DCP Dynamic Cone Penetrometer	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

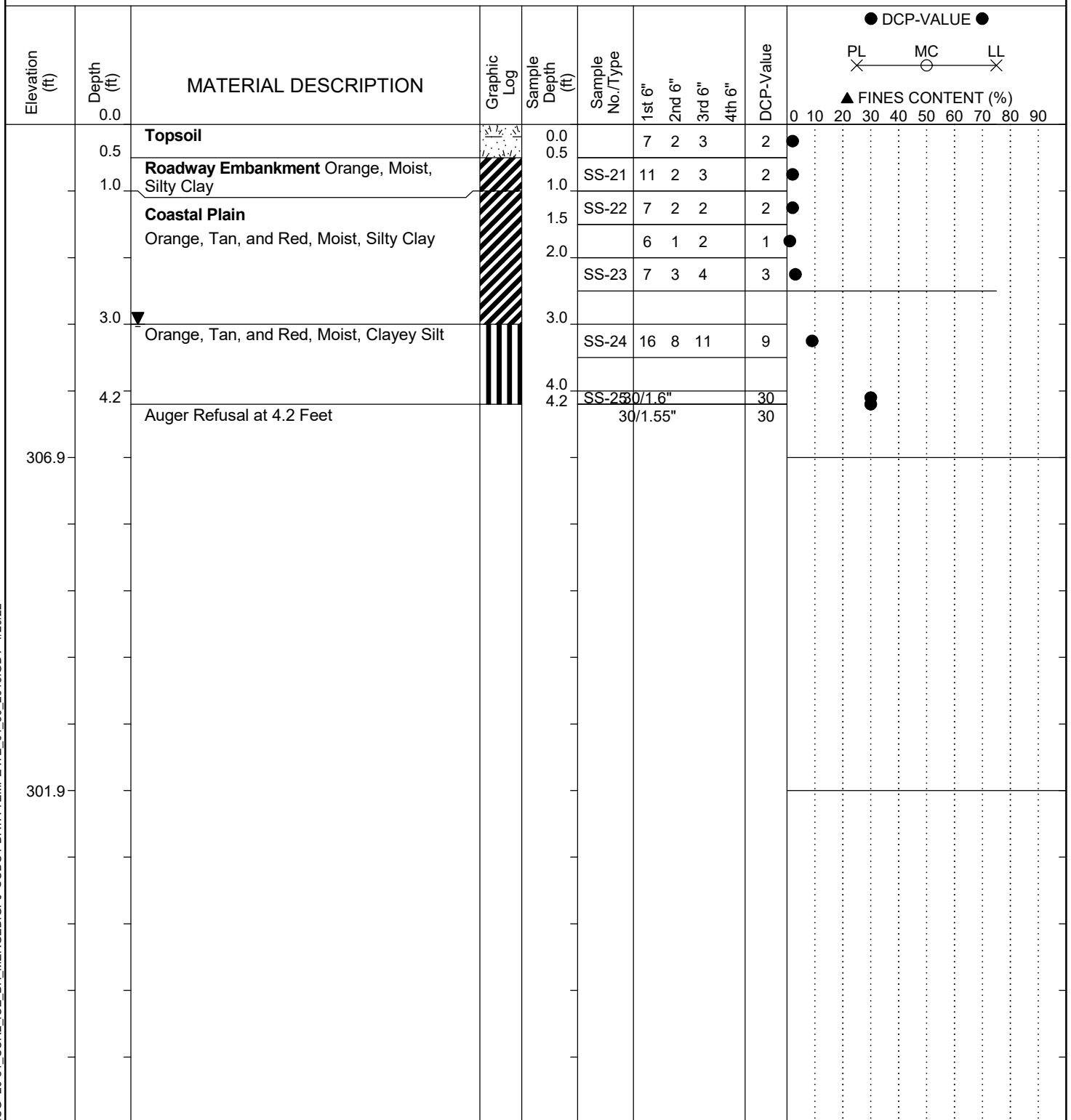
Project ID:				P039719				County:		Richland		Boring No.:		DR-2				
Site Description:				Carolina Crossroads Phase 2								Route:		I-20				
Driller:		C. McIlroy			Boring Location:			168+60		Offset:		80 LT		Alignment:		I20CL		
Elev.:		284.9 ft		Latitude:		34.03848394		Longitude:		-81.10493421		Date Started:			4/6/2022			
Total Depth:		7 ft		Groundwater:		TOB		Dry		24 hr		Dry		Date Completed:			4/6/2022	
Dynamic Cone Penetrometer Test Procedure:								Sowers and Hedges (1966)										

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	DCP-Value	DCP-VALUE ●	PL X	MC ○	LL X	▲ FINES CONTENT (%)
	0.0														
		Roadway Embankment Orange, Tan, White, and Pink, Moist, Clayey Silt		0.0	SS-2	4	2	2		2	●				
				0.5							●				
				1.0		6	2	2		2	●				
				1.5		8	3	2		2	●				
				2.0		8	2	2		2	●				
					SS-3	7	2	2		2	●				
				3.0											
					SS-4	5	2	2		2	●				
				4.0											
	4.5				SS-5	8	2	3		2	●				
		Coastal Plain Gray and Brown, Moist, Sandy Silt		5.0											
					SS-6	10	5	3		4	●				
	5.9														
		Orange, Tan, Brown, and Red, Moist, Sandy Clay		6.0											
					SS-7	8	3	3		3	●				
	7.0														
		Boring Terminated at 7.0 Feet		7.0		18	12	13		12	●				

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	DCP Dynamic Cone Penetrometer	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG- Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

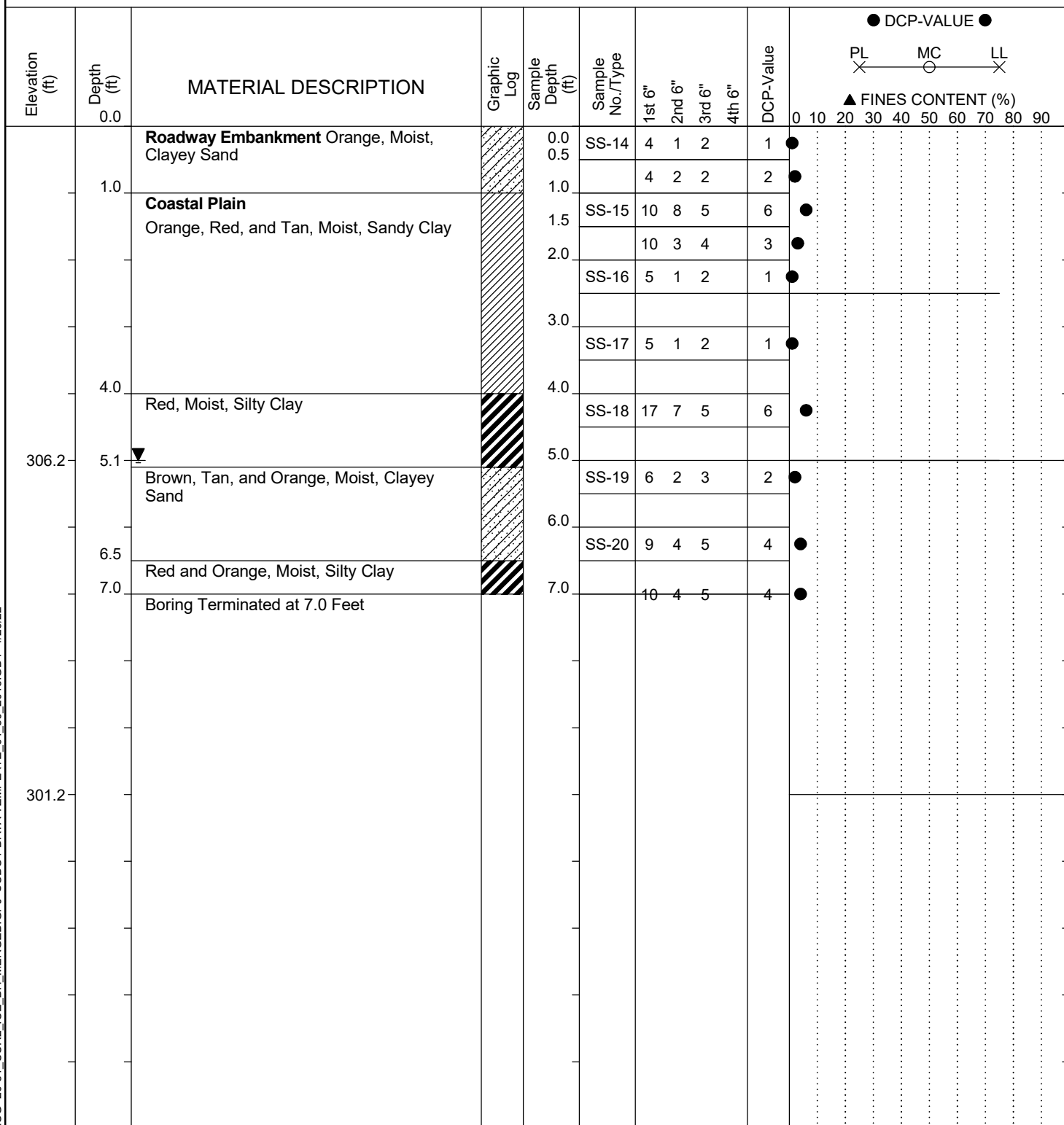
Project ID:	P039719	County:	Richland	Boring No.:	G-079
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Driller:	C. McIlroy	Boring Location:	599+00	Offset:	40 RT
Elev.:	311.9 ft	Latitude:	34.04223568	Longitude:	-81.09752409
Date Started:	4/6/2022				
Total Depth:	4.2 ft	Groundwater:	TOB	Dry	24 hr
Date Completed:	4/6/2022				
Dynamic Cone Penetrometer Test Procedure:	Sowers and Hedges (1966)				



LEGEND

SAMPLER TYPE			DRILLING METHOD	
SS - Split Spoon	DCP - Dynamic Cone Penetrometer	HSA - Hollow Stem Auger	RW - Rotary Wash	
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core	
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing		

Project ID:	P039719	County:	Richland	Boring No.:	G-080
Site Description:	Carolina Crossroads Phase 2			Route:	Broad River Rd.
Driller:	C. McIlroy	Boring Location:	604+00	Offset:	40 LT
Elev.:	311.2 ft	Latitude:	34.04143925	Longitude:	-81.09614906
Date Started:	4/6/2022				
Total Depth:	7 ft	Groundwater:	TOB	24 hr	5 ft
Date Completed:	4/6/2022				
Dynamic Cone Penetrometer Test Procedure:			Sowers and Hedges (1966)		



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	DCP Dynamic Cone Penetrometer	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

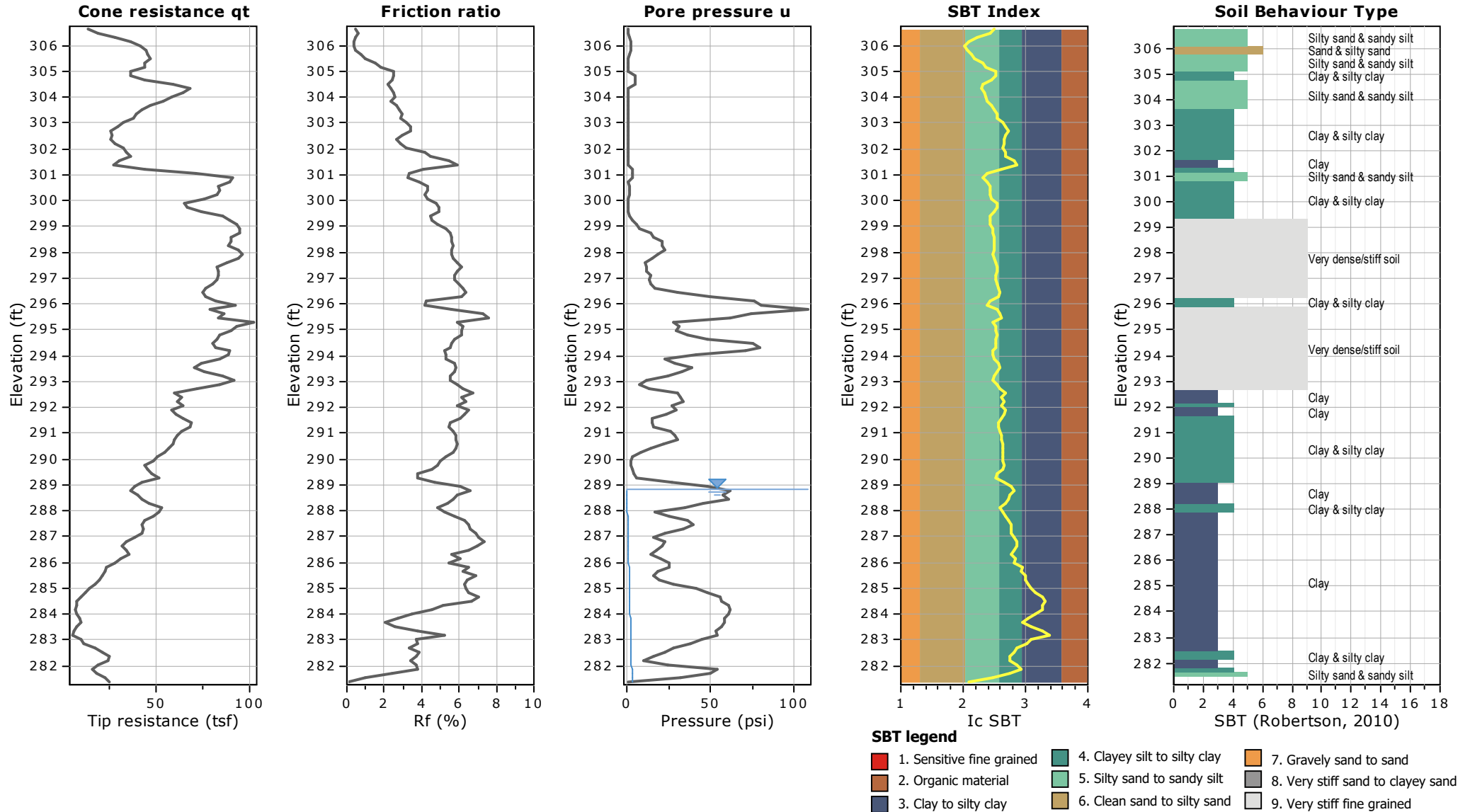
Carolina Crossroads - Phase 2

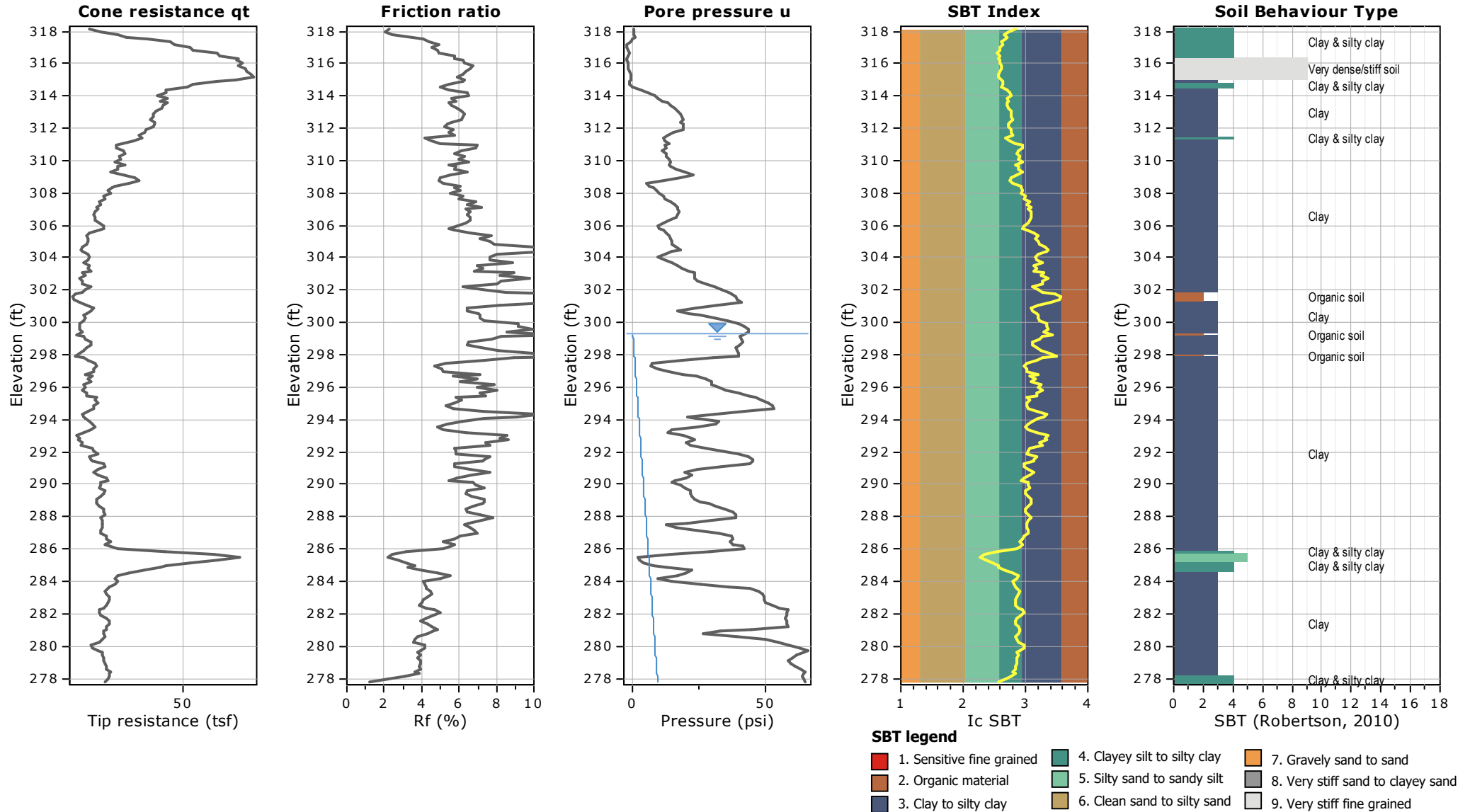
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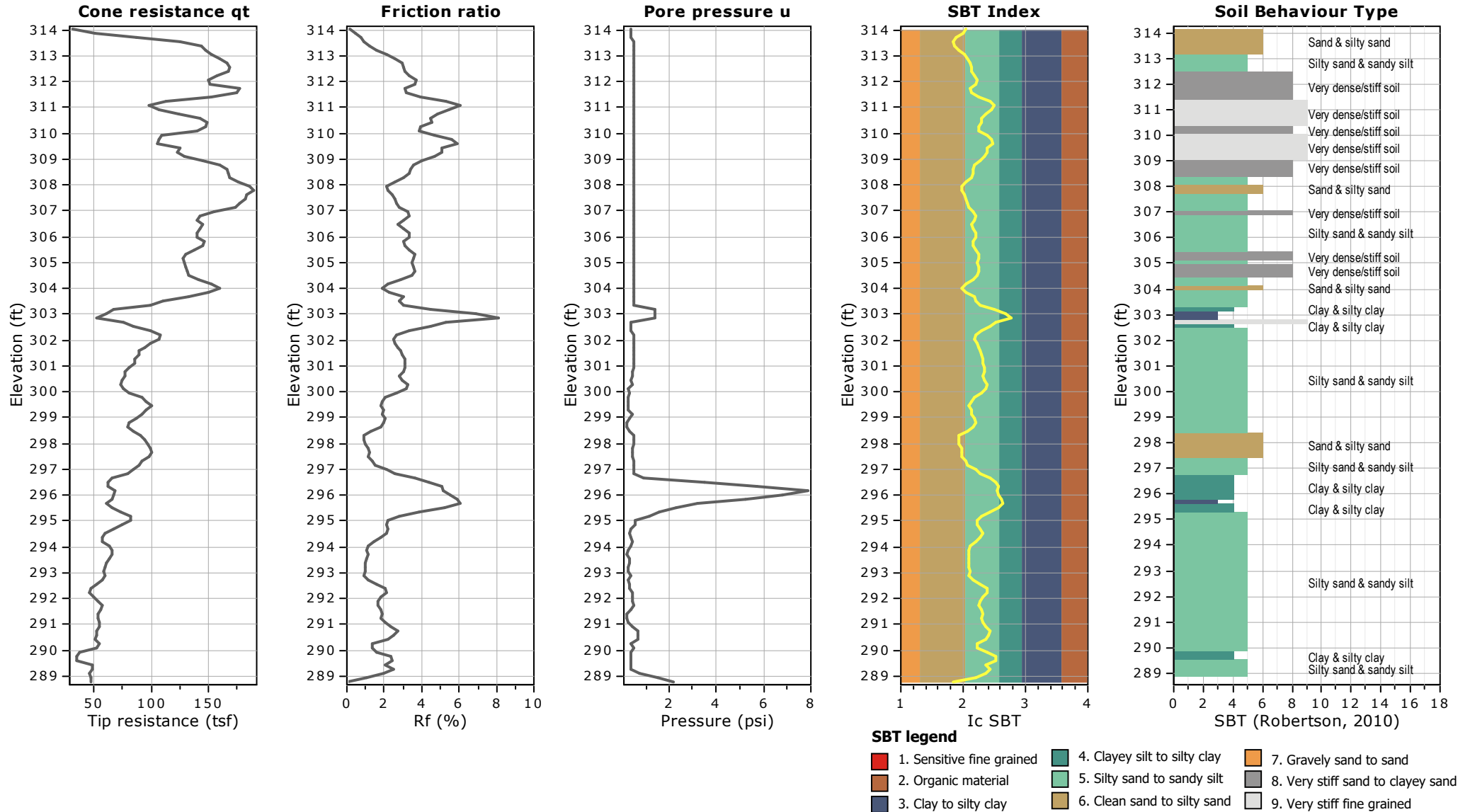
APPENDIX D – ROADWAY

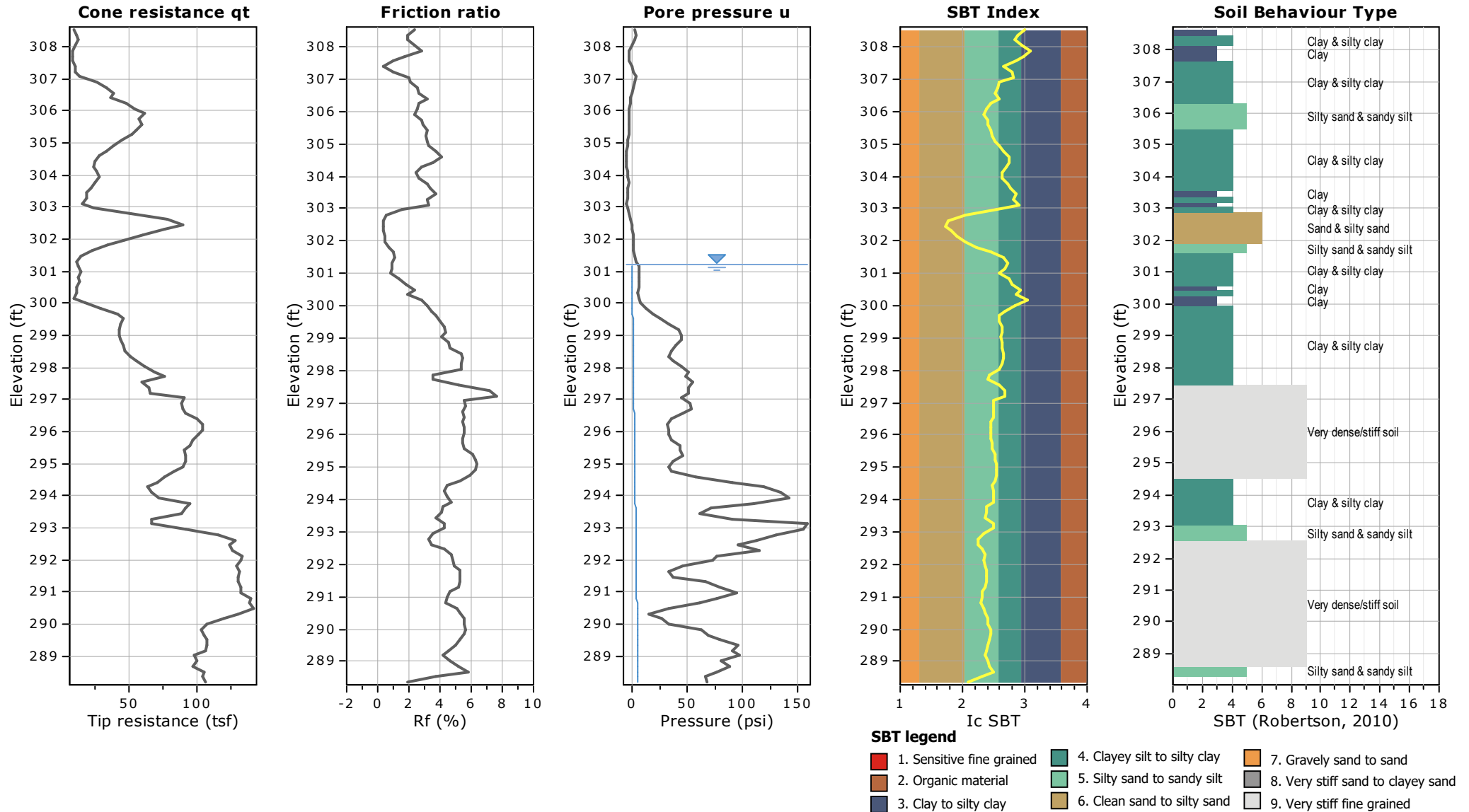
SECTION 3 FIELD TESTING LOGS

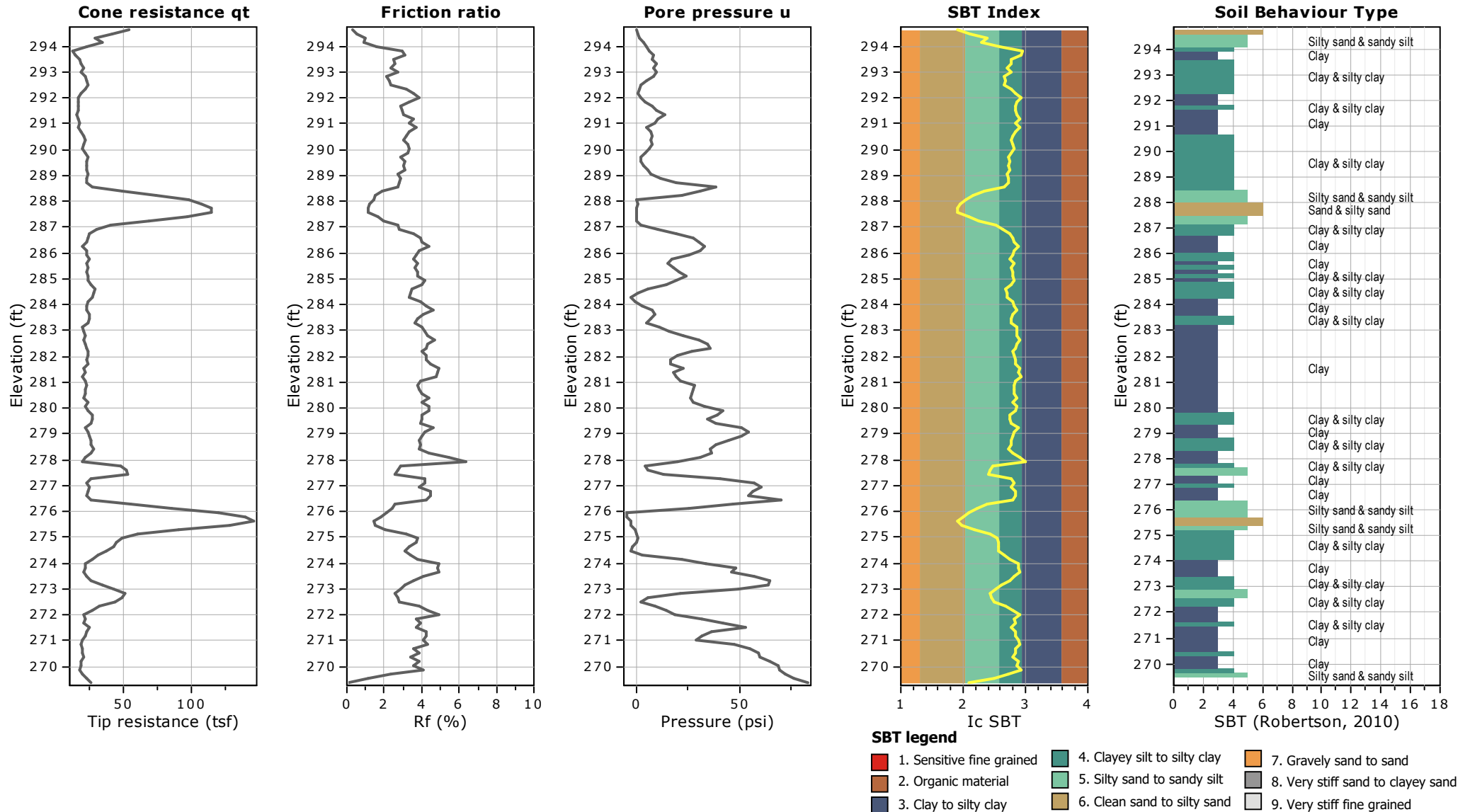
SECTION 3B CPT LOGS

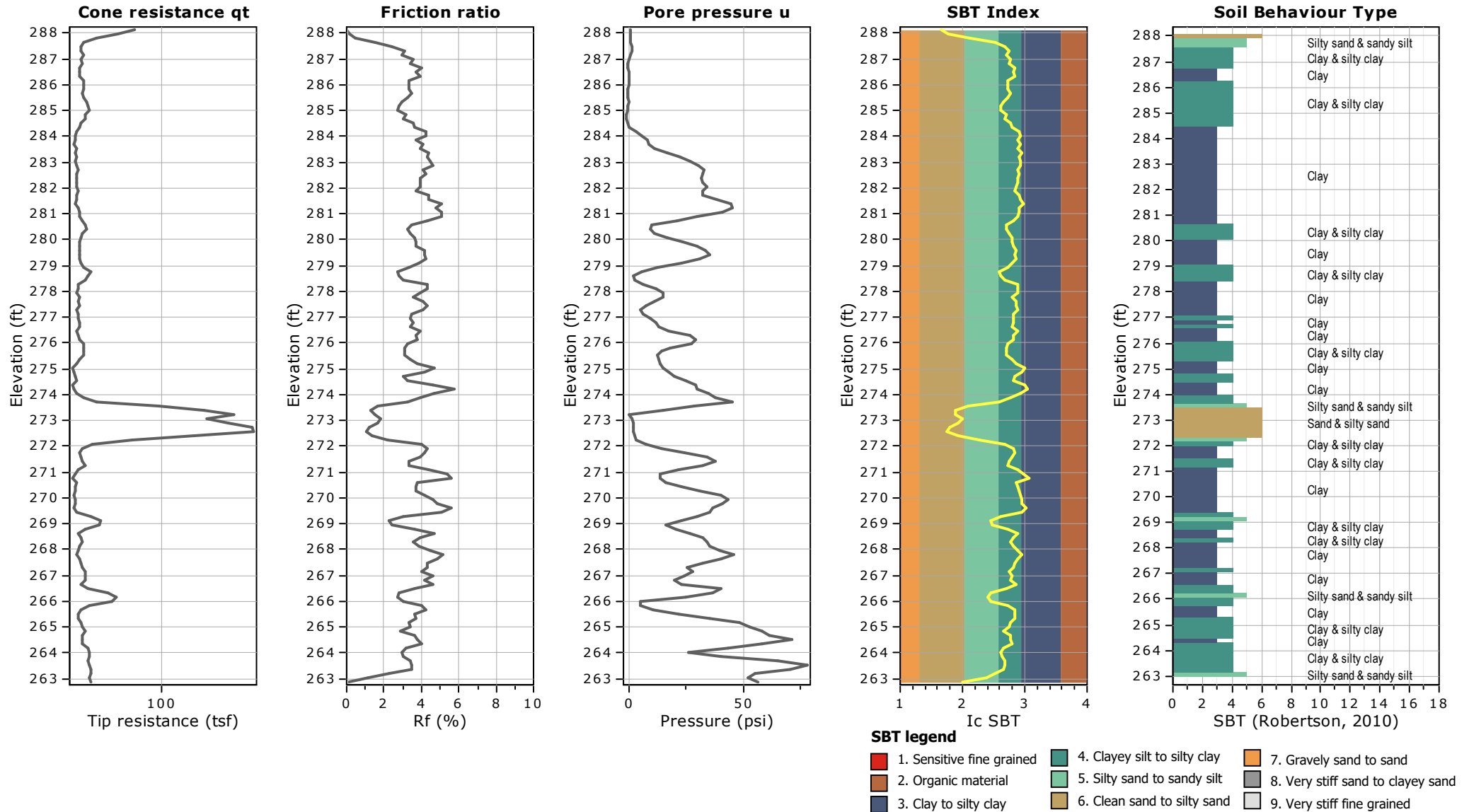


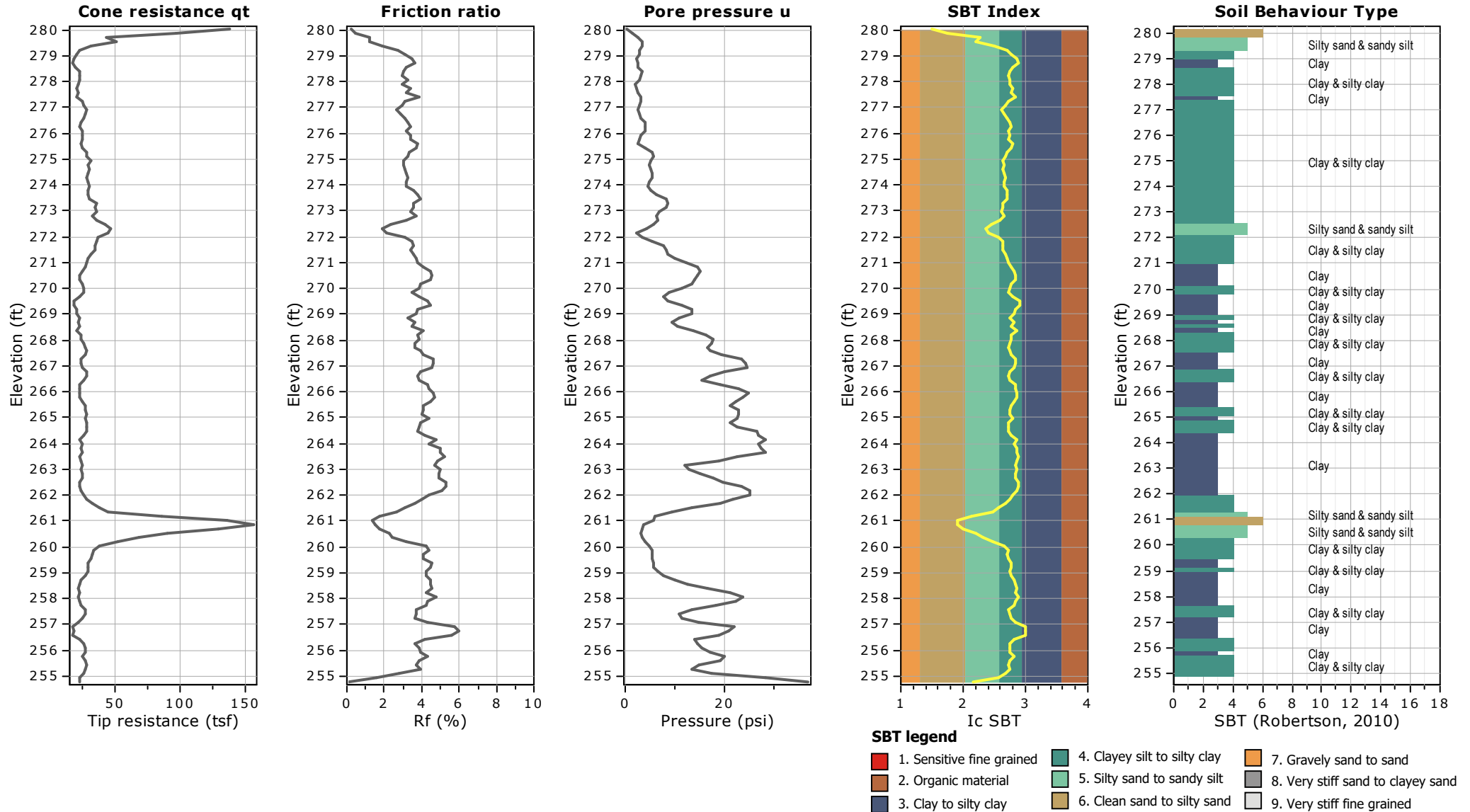








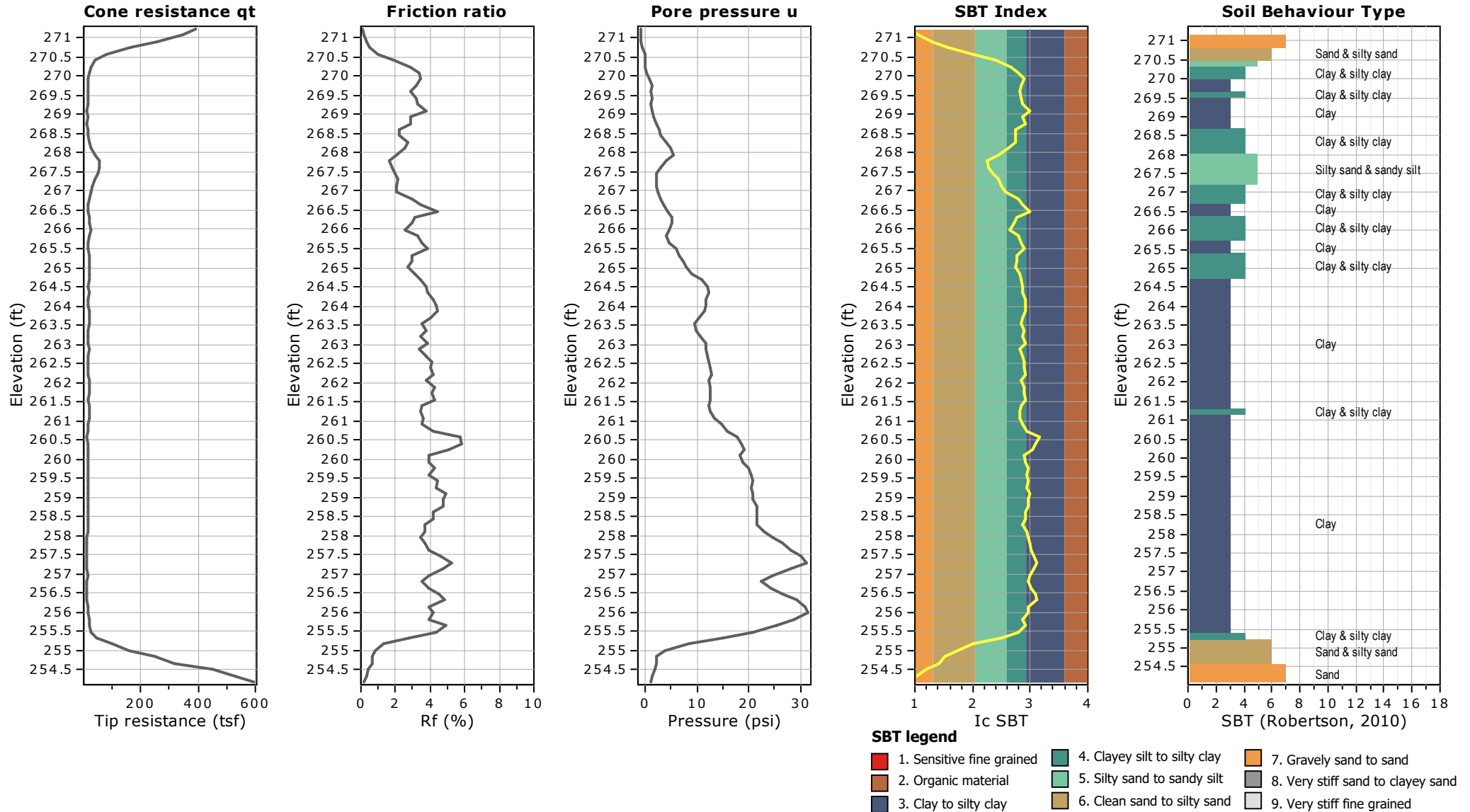


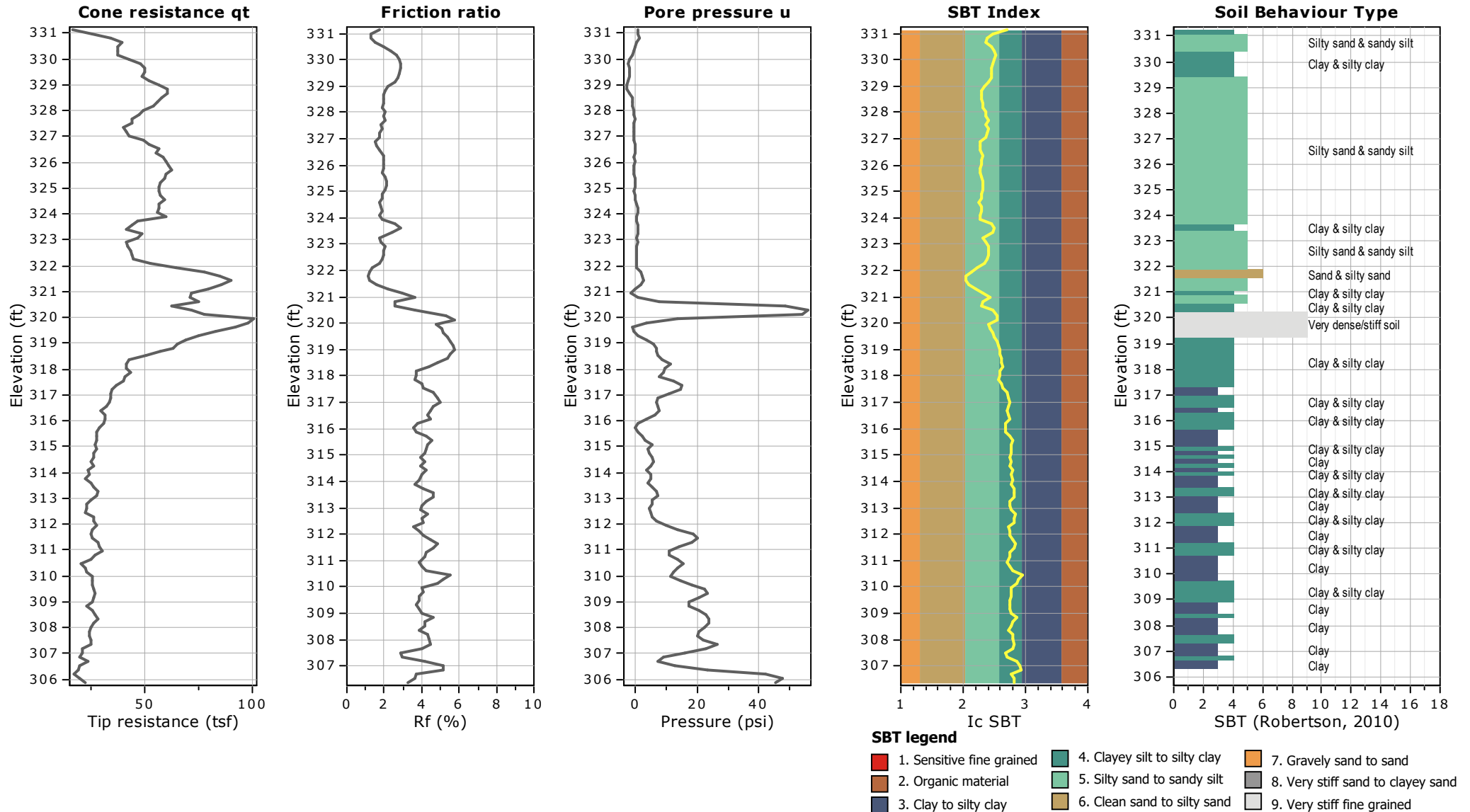


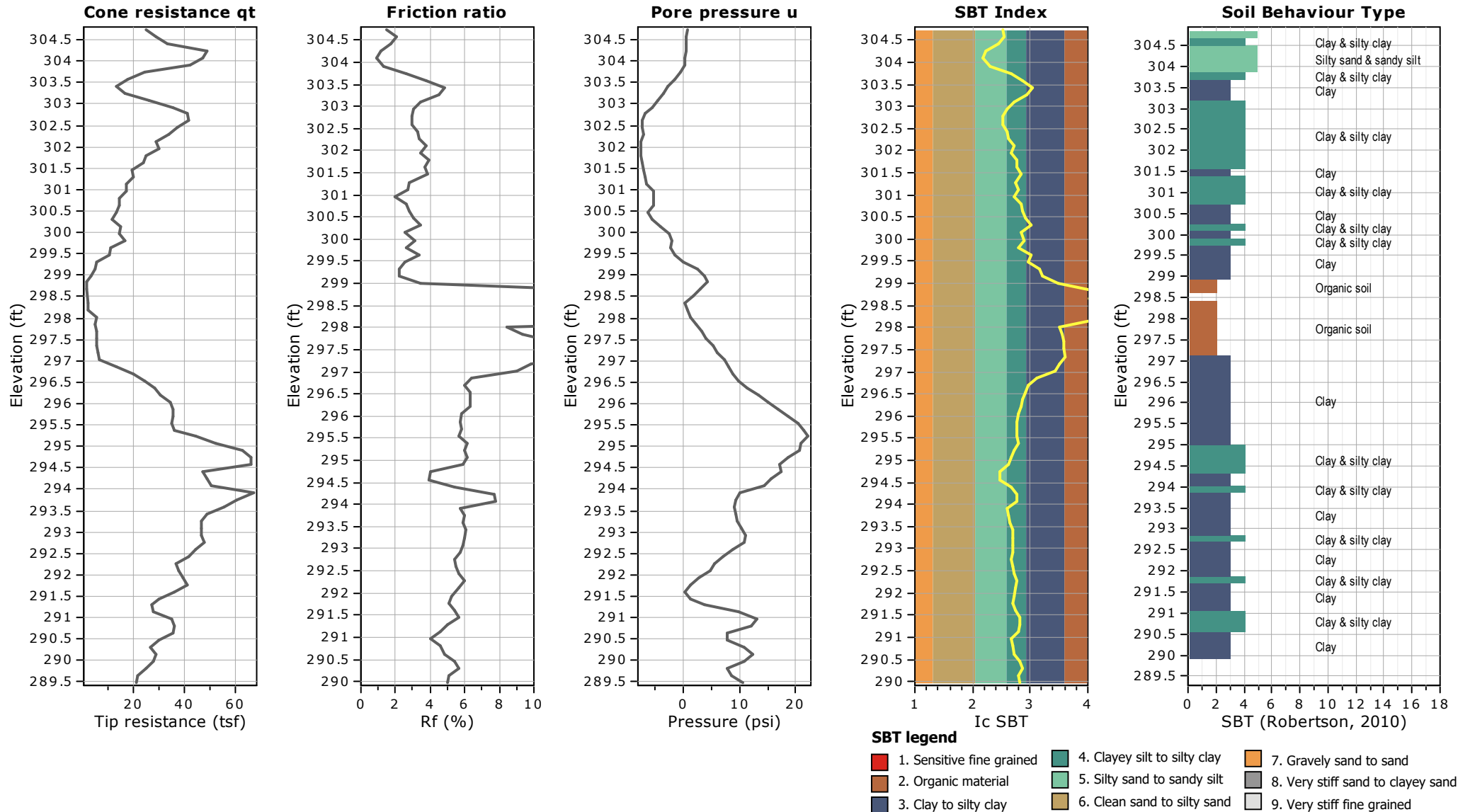
Project: Carolina Crossroads Phase 2
Location: Richland County, SC

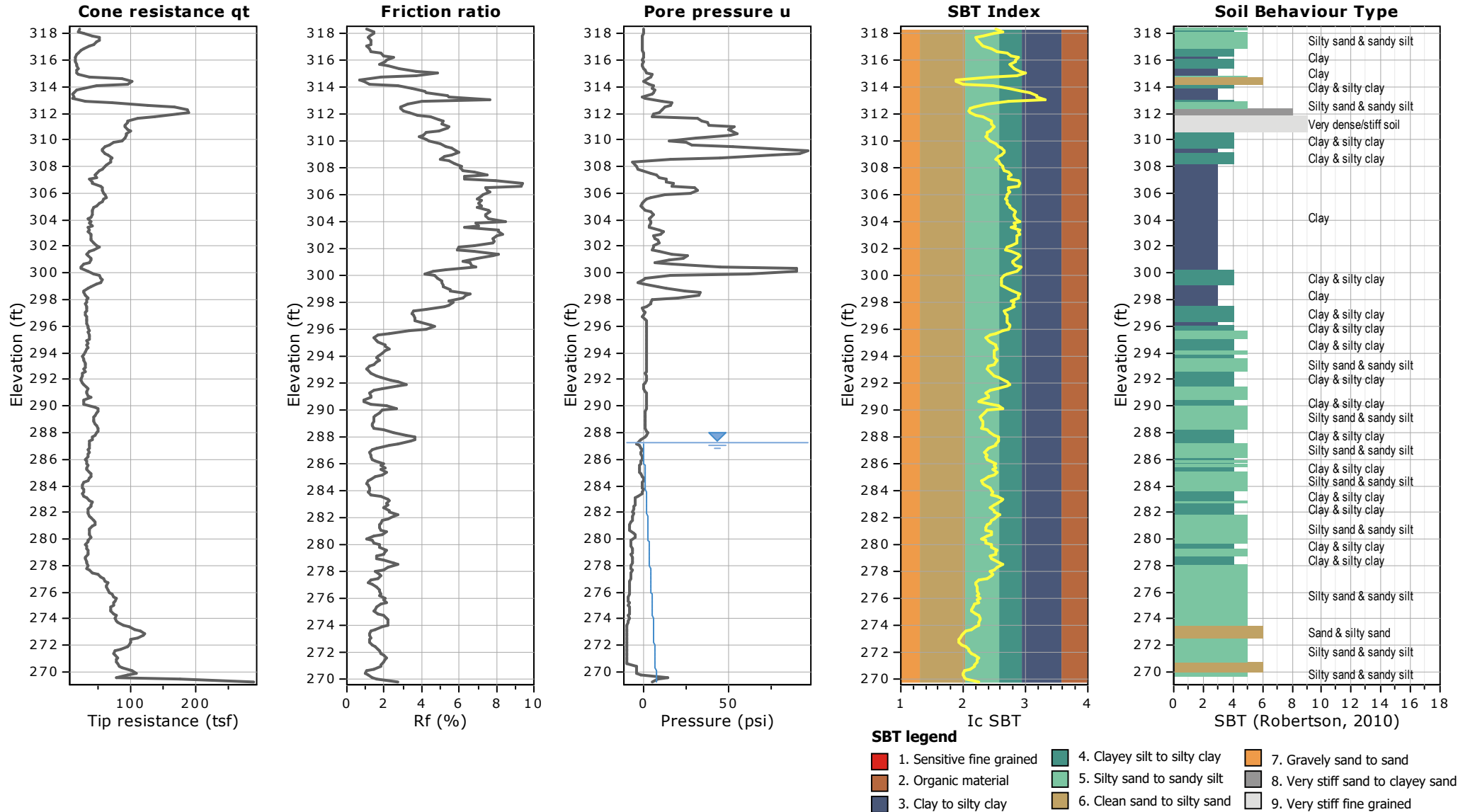
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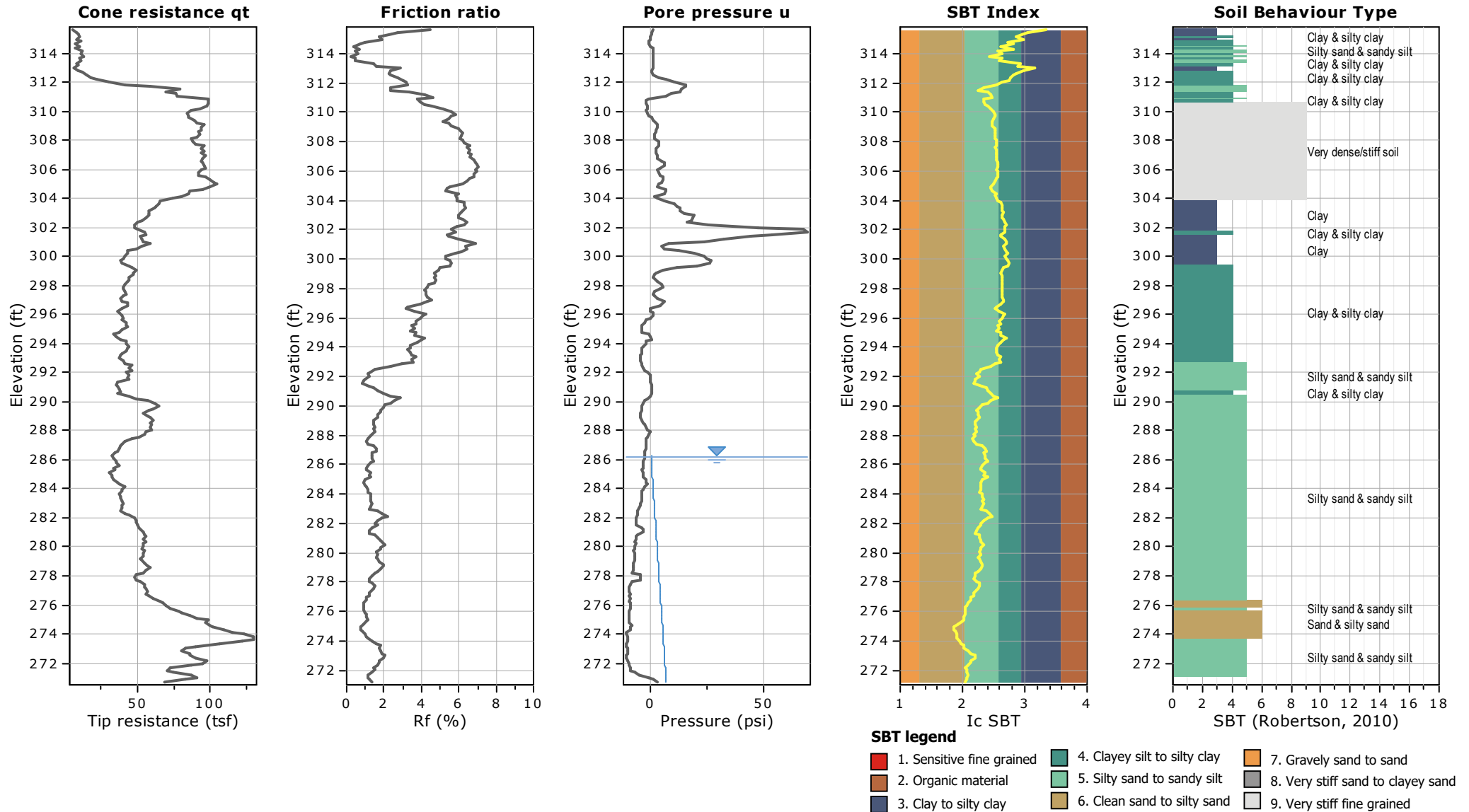
Total depth: 17.22 ft, Date: 2/22/2022
Surface Elevation: 271.40 ft
Coords: N 803377.6, E 1973260.8
Cone Operator: CATLIN

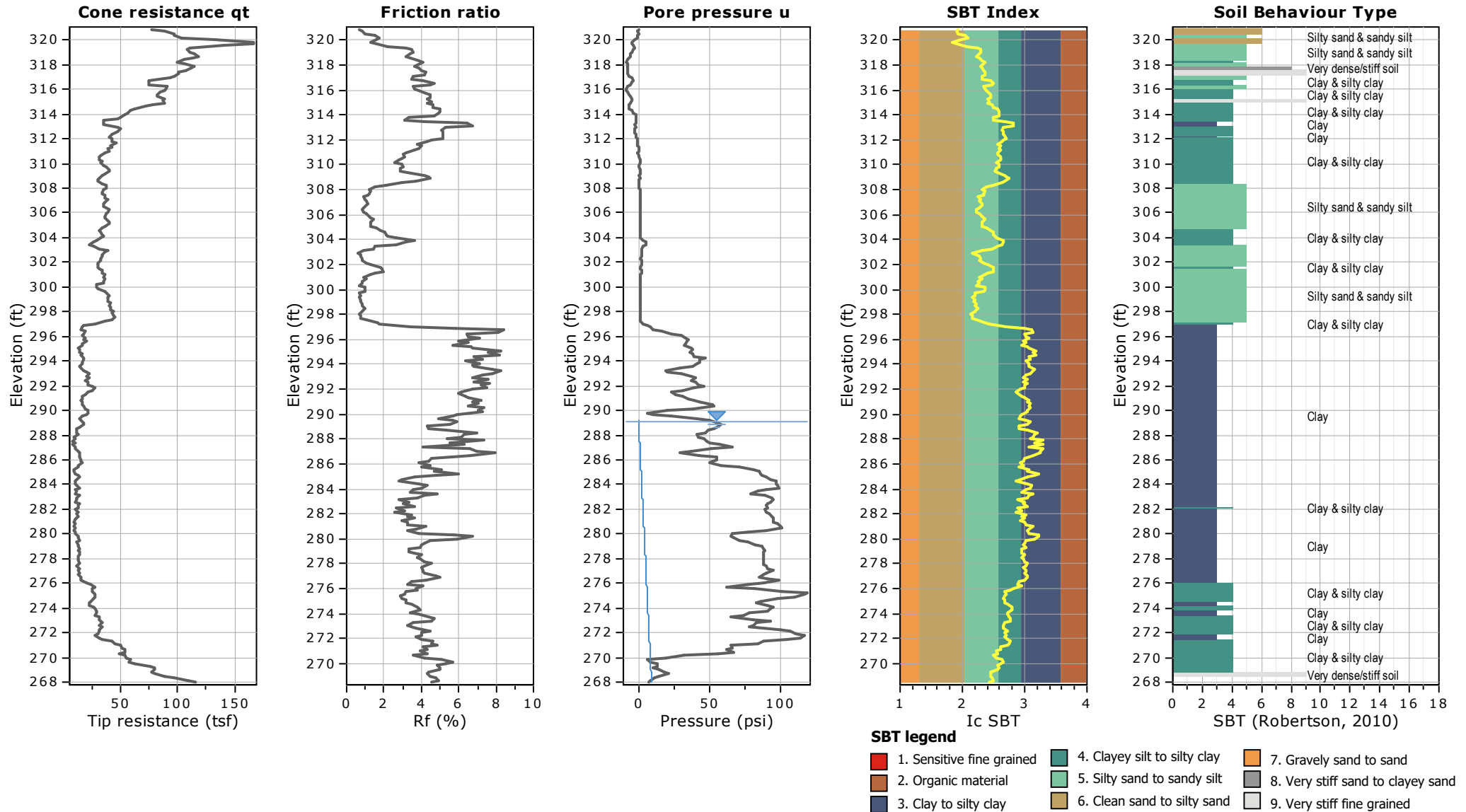


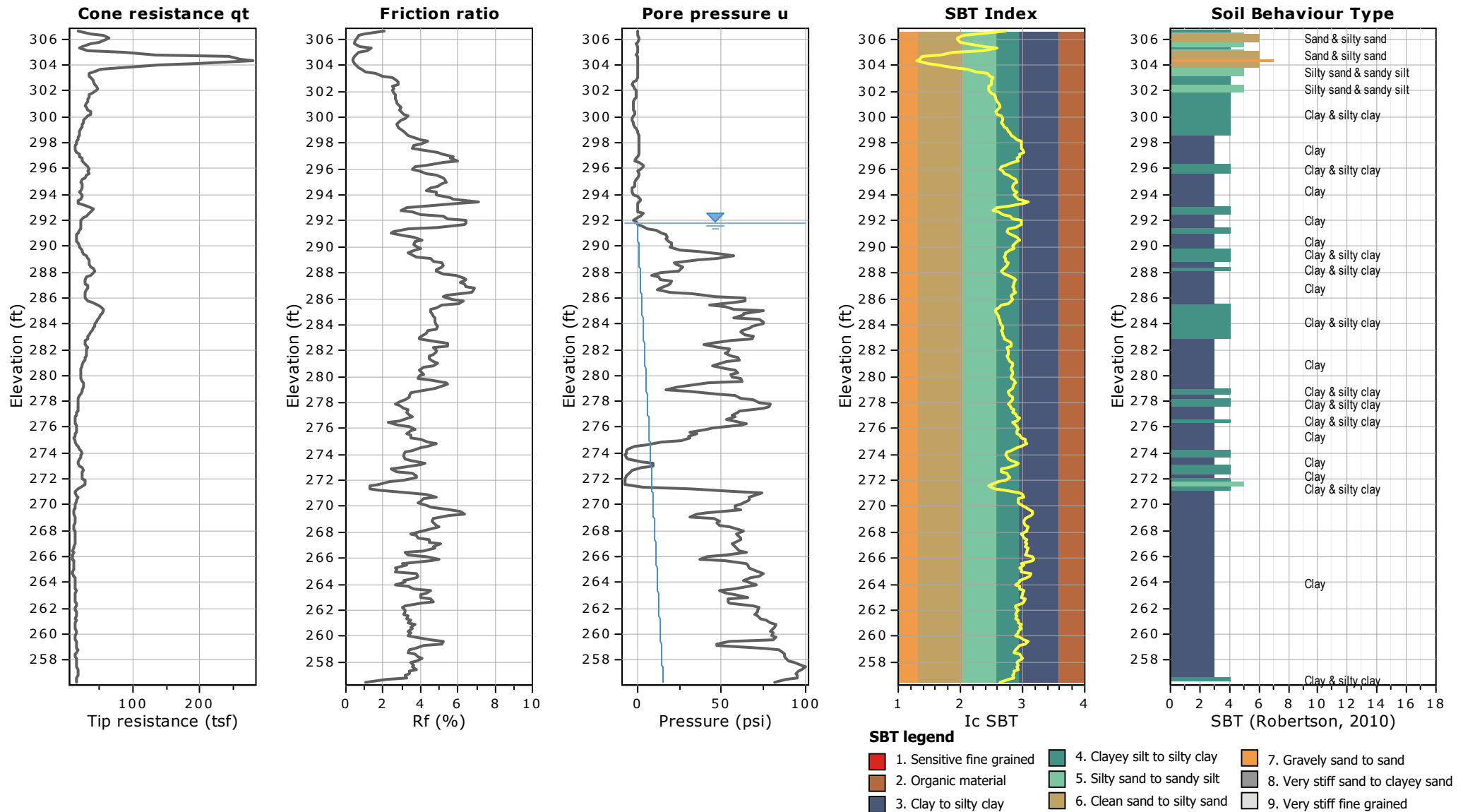


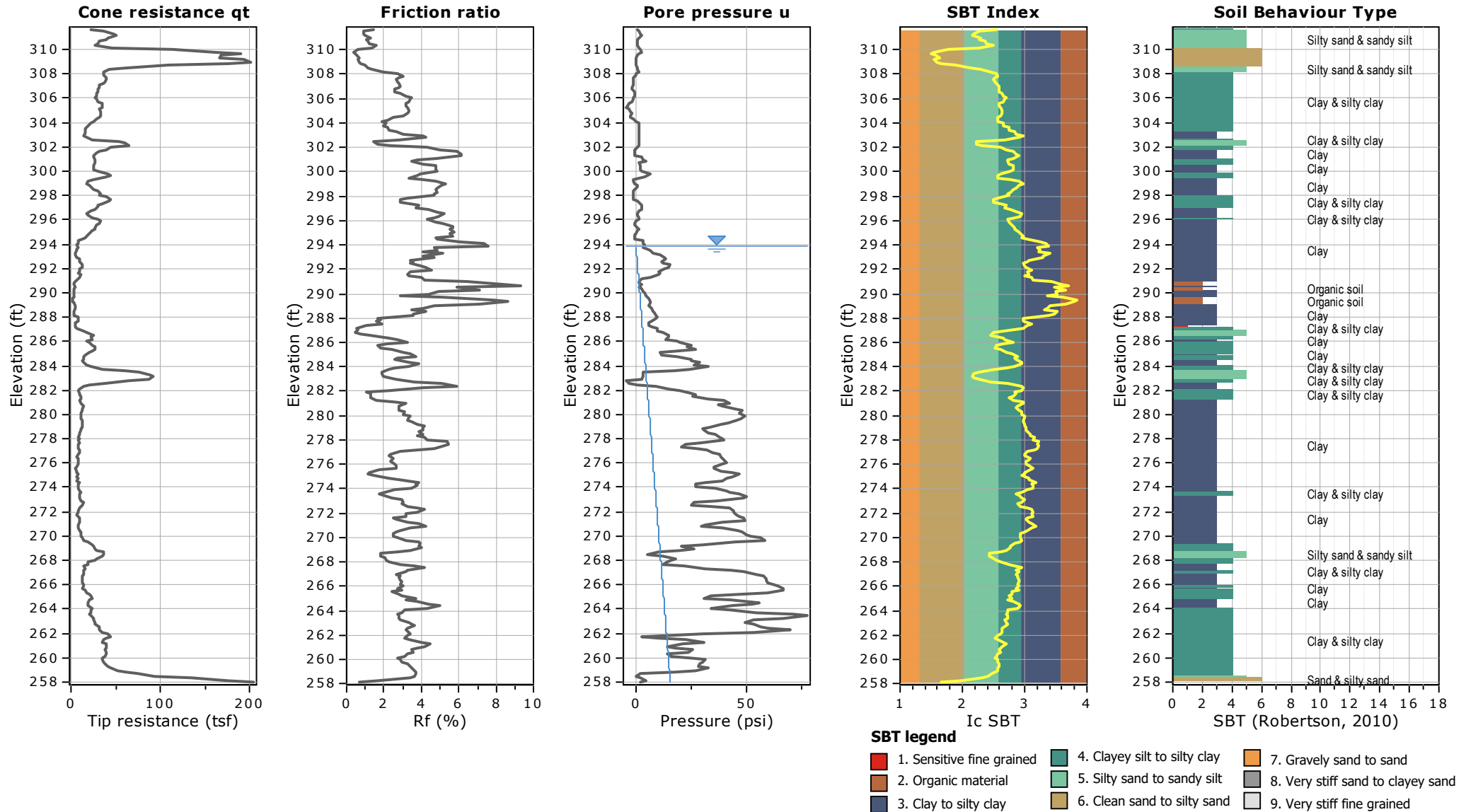


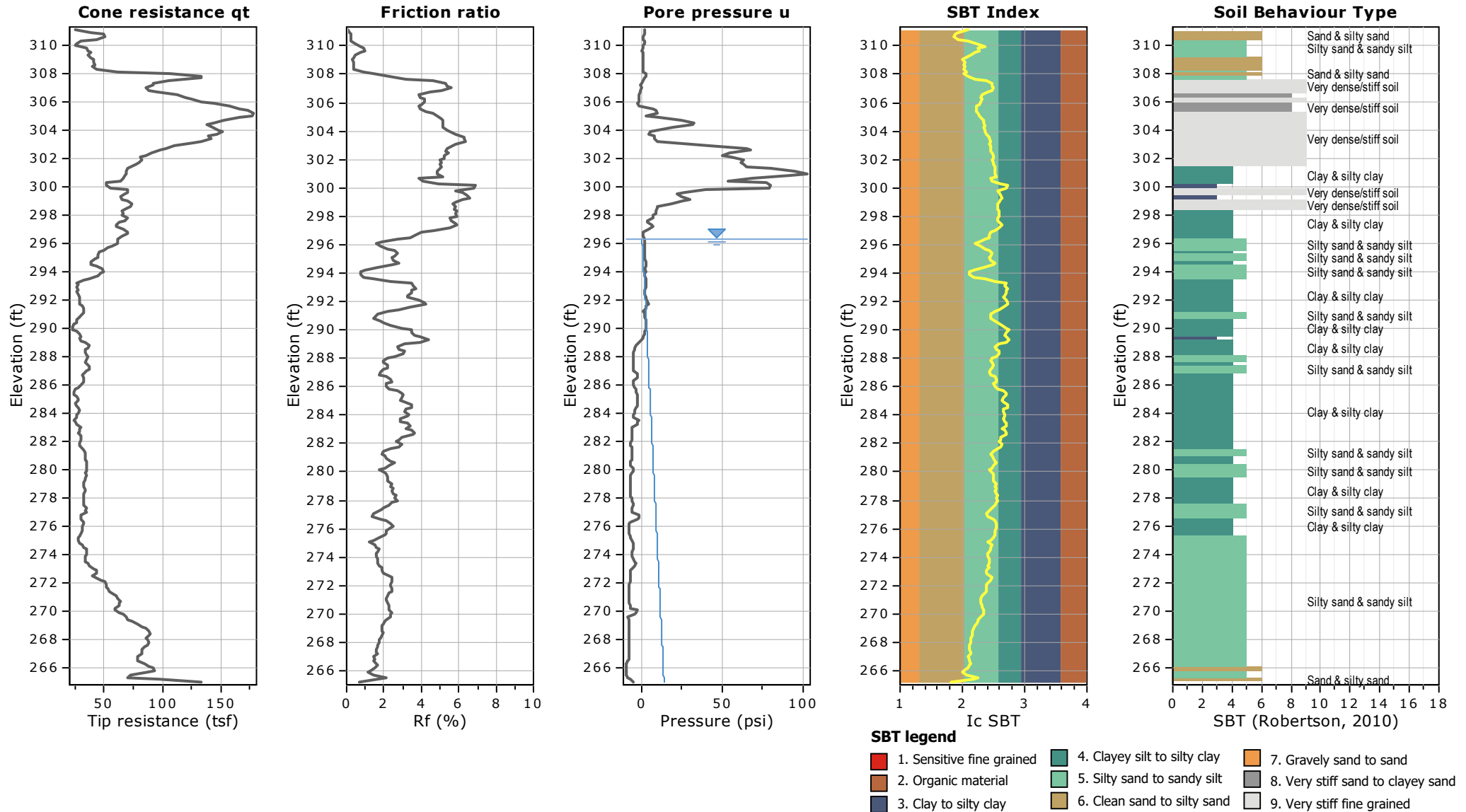












Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX D – ROADWAY

SECTION 4 LABORATORY TEST RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

Borehole	Depth	Liquid Limit	Plastic Limit	Plasticity Index	Maximum Size (mm)	%<#200 Sieve	Classification	Water Content (%)	Dry Density (pcf)	Saturation (%)	Void Ratio
DR-3	4.0	53	29	24	9.5	52	MH	19.6			
DR-3	18.3	36	25	11	19	34	SM	23.0			
DR-4	14.1	23	14	9	2	68	CL	21.9			
DR-4	19.1	43	17	26	4.75	53	CL	21.8			
DR-4	24.1	31	17	14	12.5	41	SC	28.4			
G-001	8.0	29	18	11	9.5	36	SC	37.6			
G-001	19.3	NP	NP	NP	19	24	SM	18.8			
G-003	6.0	43	27	16	12.5	28	SM	12.0			
G-004	6.0	34	23	11	4.75	32	SC	9.0			
G-005	8.0	53	32	21	9.5	45	SM	16.1			
G-006	2.0	52	31	21	2	63	MH				
G-007	4.0	42	31	11	4.75	49	SM	21.7			
G-008	4.0	45	25	20	2	63	CL	26.7			
G-008	19.1	46	27	19	12.5	58	CL	26.8			
G-009	2.0	58	31	27	19	41	SM	17.5			
G-010	4.0	53	28	25	9.5	58	CH	24.3			
G-010	19.2	45	35	10	9.5	34	SM	24.6			
G-011	6.0	50	23	27	9.5	58	CH	19.4			
G-011	18.0	56	33	23	4.75	33	SM	21.7			
G-011	24.0	41	29	12	9.5	26	SM	27.1			
G-012	8.0	52	26	26	4.75	40	SC	16.0			
G-012	19.3	43	30	13	4.75	30	SM	25.0			
G-012	29.3	61	39	22	4.75	74	MH	45.8			
G-013	6.0	63	38	25	9.5	65	MH	23.0			
G-013	19.3	54	29	25	4.75	37	SC	23.0			
G-013	29.3	51	37	14	2	82	MH	57.6			
G-015	4.2	47	27	20	12.5	62	CL	27.5			
G-015	14.3	59	29	30	12.5	39	SC	17.2			
G-015	19.3	52	30	22	12.5	61	MH	26.6			
G-016	4.0	41	32	9	9.5	60	ML	23.8			
G-016	14.1	45	32	13	4.75	57	ML	21.7			
G-018	4.0	38	27	11	19	36	SM	17.2			
G-018	23.5	36	27	9	9.5	25	SM	25.0			
G-018	33.5	46	32	14	9.5	29	SM	22.9			
G-018	38.5	35	30	5	4.75	23	SM	24.9			
G-019	13.5	55	32	23	4.75	37	SM	16.8			
G-019	23.5	41	29	12	4.75	28	SM	25.8			
G-019	33.5	52	38	14	12.5	55	MH	54.6			
G-020	4.0	61	30	31	4.75	67	CH	22.3			
G-020	23.5	32	26	6	4.75	27	SM	23.1			
G-021	4.0	78	35	43	9.5	41	SC	16.7			
G-023	6.0	76	29	47	12.5	39	SC	13.3			
G-023	23.5	71	57	14	4.75	84	MH	46.9			

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

Borehole	Depth	Liquid Limit	Plastic Limit	Plasticity Index	Maximum Size (mm)	%<#200 Sieve	Classification	Water Content (%)	Dry Density (pcf)	Saturation (%)	Void Ratio
G-023	33.5	58	48	10	9.5	79	MH	42.2			
G-024	6.0	76	36	40	4.75	43	SM	13.9			
G-024	18.5	68	46	22	4.75	88	MH	34.1			
G-024	23.5	74	50	24	0.85	92	MH	47.2			
G-025	6.0	52	41	11	4.75	92	MH	32.2			
G-025	13.5	61	54	7	19	45	GM	29.5			
G-025	28.5	62	44	18	19	58	MH	34.5			
G-026	13.5	61	56	5	0.85	88	MH	49.8			
G-026	23.5	60	47	13	9.5	87	MH	46.4			
G-027	10.0	39	33	6	19	36	SM	14.4			
G-034	4.0	38	24	14	2	31	SC	15.9			
G-034	13.8	67	49	18	19	64	MH	34.6			
G-035	8.0	34	24	10	9.5	25	SM	11.6			
G-037	6.0	35	23	12	9.5	28	SC	10.3			
G-038	6.0	55	30	25	9.5	37	SM	9.4			
G-039	13.5	34	25	9	12.5	29	SM	9.7			
G-040	6.0	NP	NP	NP	9.5	33	SM	8.4			
G-041	4.0	45	26	19	19	47	SC	14.9			
G-042	10.0	47	31	16	12.5	62	ML	18.9			
G-043	8.0	42	22	20	19	25	SC	15.4			
G-044	8.0	65	35	30	4.75	44	SM	16.5			
G-045	13.5	65	53	12	4.75	73	MH	40.2			
G-046	18.5	57	50	7	4.75	87	MH	41.4			
G-047	6.0	62	53	9	4.75	91	MH	45.0			
G-048	4.0	62	45	17	2	92	MH	29.7			
G-048	13.5	54	47	7	4.75	81	MH	32.5			
G-049	6.0	74	63	11	2	83	MH	49.5			
G-049	13.5	63	56	7	2	78	MH	48.2			
G-050	4.0	60	50	10	2	87	MH	26.0			
G-050	18.5	70	60	10	2	85	MH	50.5			
G-051	2.0	60	54	6	9.5	74	MH	35.1			
G-051	13.5	58	46	12	2	90	MH	38.2			
G-052	5.0	65	52	13	4.75	89	MH	34.1			
G-052	13.5	47	40	7	19	67	ML	23.0			
G-053	10.0	NP	NP	NP	9.5	43	SM	21.9			
G-054	8.0	73	62	11	0.85	87	MH	33.0			
G-054	18.5	61	52	9	0.85	87	MH	35.4			
G-055	6.0	61	52	9	12.5	77	MH	33.0			
G-056	13.5	69	53	16	0.425	95	MH	34.5			
G-057	4.0	48	42	6	9.5	86	ML	27.7			
G-057	18.5	65	47	18	2	95	MH	43.3			
G-058	8.0	58	48	10	2	97	MH	28.6			
G-058	18.5	55	52	3	9.5	91	MH	34.0			

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PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

Borehole	Depth	Liquid Limit	Plastic Limit	Plasticity Index	Maximum Size (mm)	%<#200 Sieve	Classification	Water Content (%)	Dry Density (pcf)	Saturation (%)	Void Ratio
G-059	2.0	63	53	10	2	93	MH	41.1			
G-059	23.5	66	48	18	2	93	MH	43.8			
G-060	6.0	61	44	17	4.75	85	MH	31.6			
G-060	18.5	48	44	4	9.5	72	ML	37.0			
G-061	13.5	61	53	8	12.5	90	MH	39.8			
G-062	4.0	46	37	9	4.75	71	ML	19.8			
G-062	13.5	41	34	7	4.75	75	ML	21.5			
G-063	8.5	66	25	41	4.75	85	CH	37.9			
G-064	2.0	40	27	13	19	46	SM	22.6			
G-066	4.0	60	24	36	4.75	80	CH	28.4			
G-067	4.0	55	27	28	19	88	CH	32.0			
G-067	10.0	65	37	28	12.5	85	MH	27.5			
G-068	10.0	70	30	40	4.75	83	CH	34.4			
G-069	4.0	92	35	57	25	56	CH	29.2			
G-070	8.0	66	36	30	2	89	MH	21.6			
G-071	2.0	36	20	16	12.5	63	CL	14.9			
G-071	8.0	44	31	13	2	80	ML	15.7			
G-072	2.0	NP	NP	NP	9.5	42	SM	42.9			
G-073	2.0	25	19	6	19	60	CL-ML	15.5			
G-074	2.0	60	26	34	19	51	CH	16.6			
G-076	2.0	51	21	30	2	79	CH	24.3			
G-077	2.0	46	27	19	4.75	76	CL	33.4			
G-081	4.0	51	31	20	4.75	60	MH	17.6			
G-081	24.3	40	32	8	19	28	SM	27.6			
G-081	29.3	62	31	31	4.75	31	SC	30.9			
G-082	2.0	42	26	16	19	47	SM	18.3			
G-082	24.5	48	32	16	4.75	34	SM	20.0			
G-082	34.5	41	34	7	4.75	29	SM	27.8			
G-084	2.0	39	24	15	12.5	62	CL	18.4			
G-084	24.8	62	57	5	2	91	MH	58.3			
G-085	6.0	50	35	15	19	51	MH	19.3			
G-085	19.6	43	26	17	9.5	69	CL	22.0			
G-086	8.0	56	51	5	0.425	97	MH	32.4			
G-086	34.5	48	45	3	2	91	ML	40.2			
G-087	4.0	46	25	21	12.5	46	SC	15.6			
G-087	14.6	35	32	3	19	61	ML	23.1			
G-091	8.0	48	41	7	2	90	ML	24.6			
G-093	19.1	76	38	38	19	36	SM	21.1			
G-093	34.1	44	34	10	19	24	SM	22.2			
G-094	2.0	53	33	20	9.5	65	MH	25.9			
G-094	19.3	68	40	28	4.75	36	SM	25.4			
G-094	34.3	57	31	26	4.75	29	SM	32.3			
G-097	23.8	51	51	NP	0.85	87	MH	46.3			

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PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

Borehole	Depth	Liquid Limit	Plastic Limit	Plasticity Index	Maximum Size (mm)	%<#200 Sieve	Classification	Water Content (%)	Dry Density (pcf)	Saturation (%)	Void Ratio
G-098	13.8	44	30	14	9.5	56	ML	24.1			
G-098	28.8	57	54	3	2	87	MH	55.0			
G-099	4.0	63	43	20	12.5	85	MH	27.0			
G-099	23.2	50	48	2	0.425	93	MH	46.0			
G-100	8.0	36	26	10	12.5	49	SM	17.7			
G-101	6.0	56	30	26	4.75	40	SM	13.9			
G-101	14.2	42	30	12	9.5	31	SM	20.1			
G-103	18.5	54	47	7	0.85	96	MH	31.1			
G-104	4.0	NP	NP	NP	12.5	28	SM	8.6			
G-104	13.5	66	25	41	12.5	83	CH	21.7			
G-105	2.0	61	24	37	4.75	87	CH	27.7			
G-107	4.0	51	33	18	19	42	SM	17.1			
G-107	19.4	557	33	524	19	31	SC	20.1			
G-107	24.4	58	50	8	2	93	MH	53.7			
G-107	39.4	70	55	15	2	81	MH	56.0			
G-113	19.1	78	39	39	12.5	66	MH	24.5			
G-113	29.1	NP	NP	NP	0.85	30	SM	26.0			
G-113	39.1	64	55	9	4.75	92	MH	61.3			
G-114	4.0	34	30	4	12.5	63	ML	24.8			
G-114	19.2	63	30	33	4.75	41	SC	17.3			
G-114	34.2	59	54	5	2	88	MH	58.1			
G-114	49.2	50	46	4	0.85	83	MH	48.4			
G-116	14.0	47	36	11	4.75	63	ML	28.3			
G-116	29.0	33	29	4	12.5	31	SM	23.1			
G-116	44.0	63	58	5	2	76	MH	68.8			
G-117	6.0	34	31	3	19	60	ML	24.5			
G-117	14.3	64	37	27	9.5	41	SM	18.9			
G-117	24.3	46	29	17	9.5	35	SM	20.6			
G-117	34.3	28	24	4	12.5	26	SM	29.4			
G-117	39.3	52	38	14	2	87	MH	36.5			
G-119	8.9	40	28	12	19	64	ML	22.9			
G-119	30.9	37	27	10	4.75	30	SM	21.5			
G-119	45.9	36	30	6	2	24	SM	27.8			
G-120	6.0	43	27	16	19	54	ML	20.1			
G-120	29.5	52	30	22	9.5	34	SM	17.5			
G-120	44.5	47	38	9	4.75	25	SM	27.9			
G-120	59.5	51	35	16	2	85	MH	39.5			
G-123	8.0	32	25	7	4.75	30	SM	17.6			
G-123	19.3	44	35	9	12.5	30	SM	23.6			
G-123	34.3	50	38	12	2	79	MH	42.3			
G-134	18.7	29	26	3	2	26	SM	19.4			
G-134	33.7	64	45	19	0.85	88	MH	47.6			
G-135	13.7	38	32	6	4.75	27	SM	21.2			

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PROJECT COUNTY Richland

Borehole	Depth	Liquid Limit	Plastic Limit	Plasticity Index	Maximum Size (mm)	%<#200 Sieve	Classification	Water Content (%)	Dry Density (pcf)	Saturation (%)	Void Ratio
G-135	23.7	62	58	4	4.75	71	MH	49.1			
G-135	38.7	53	43	10	9.5	79	MH	43.3			

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX D – ROADWAY

SECTION 4 LABORATORY TEST RESULTS

SECTION 4A SPLIT-SPOON SAMPLES

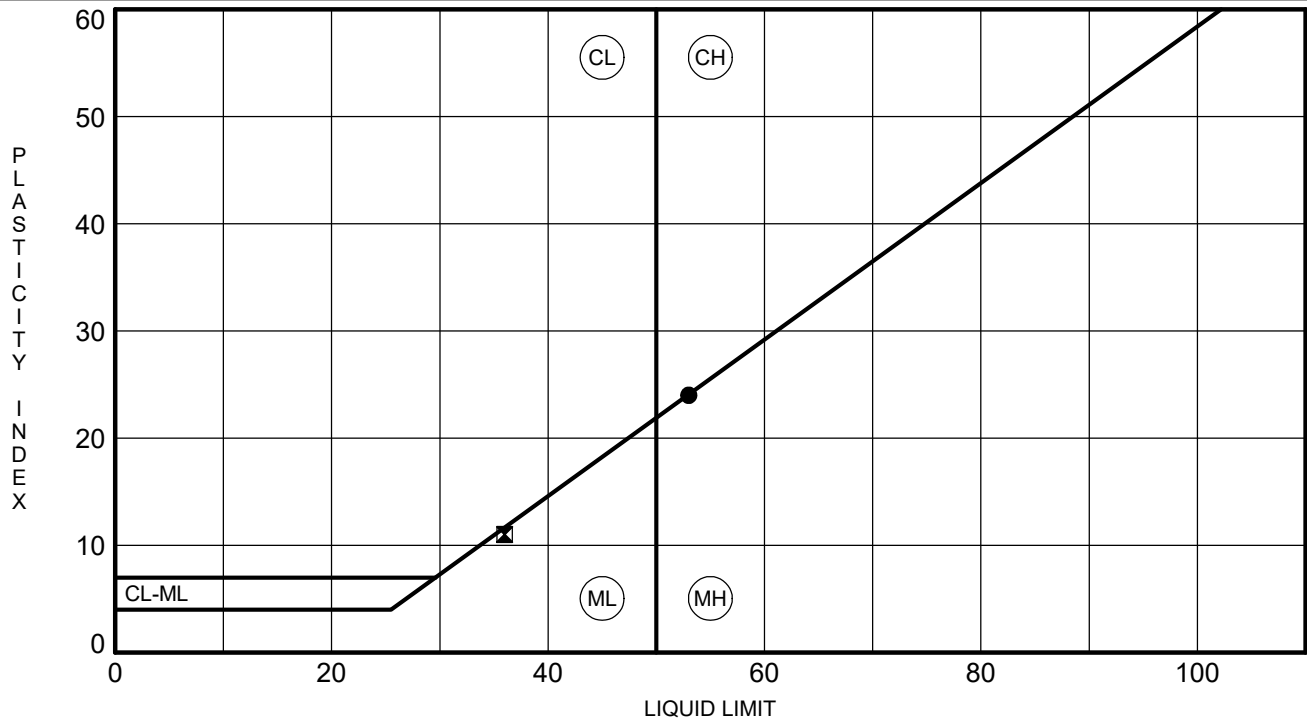


ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



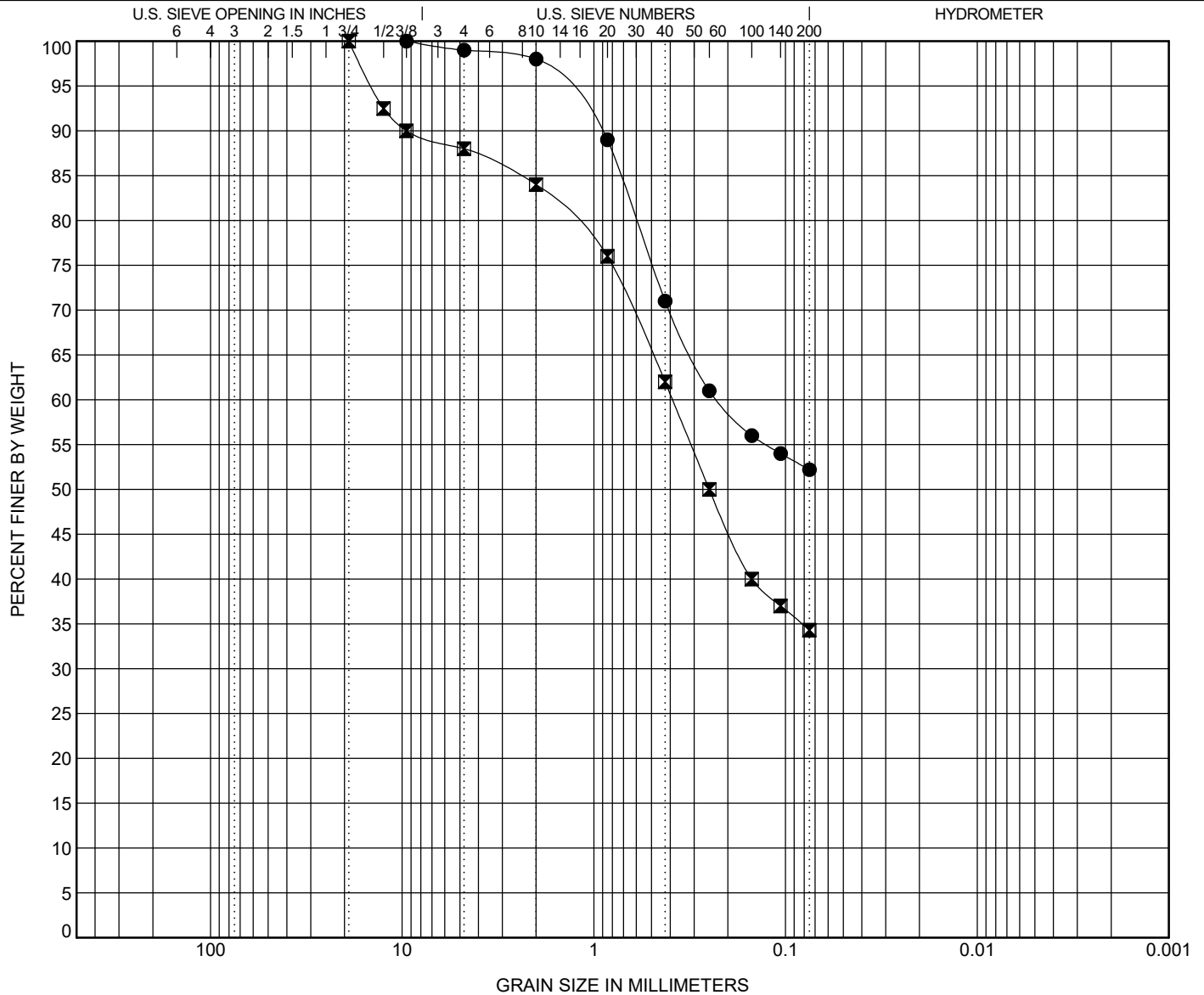


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

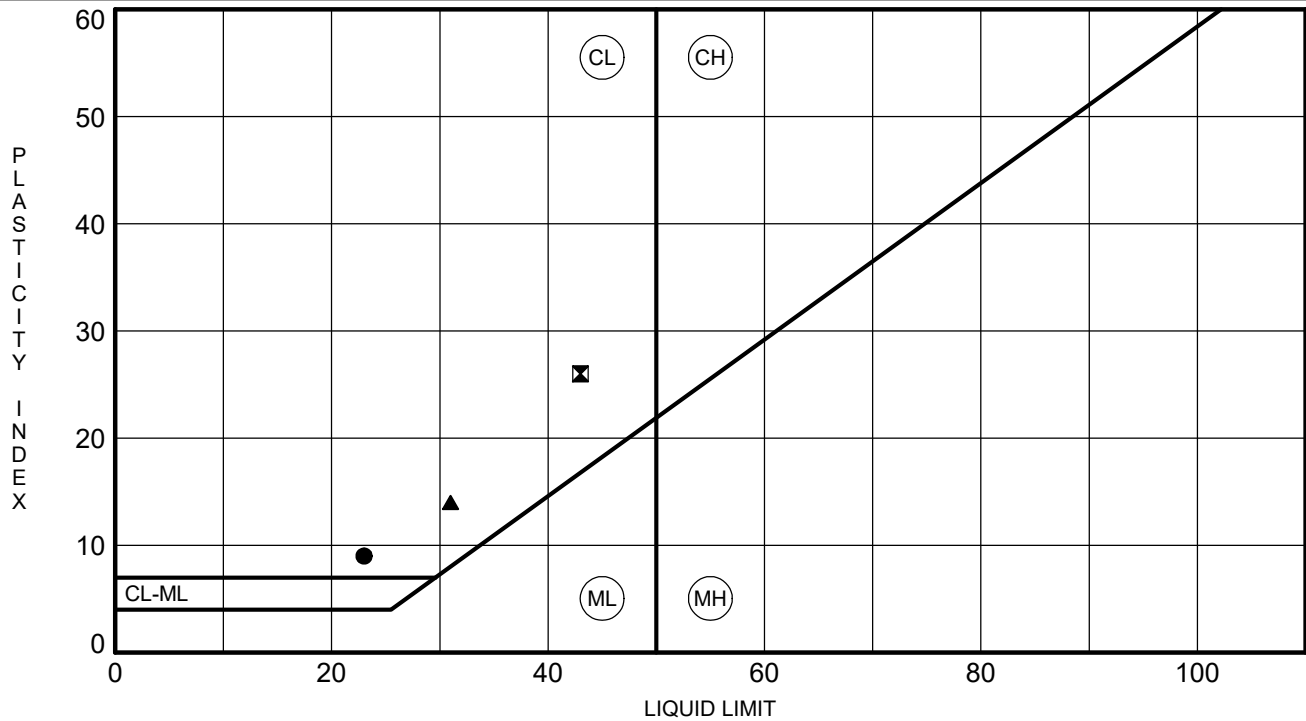
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● DR-3	4.0	SANDY ELASTIC SILT(MH)					53	29	24		
☒ DR-3	18.3	SILTY SAND(SM)					36	25	11		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● DR-3	4.0	9.5	0.226			1.0	46.8	52.2			
☒ DR-3	18.3	19	0.389			12.0	53.7	34.3			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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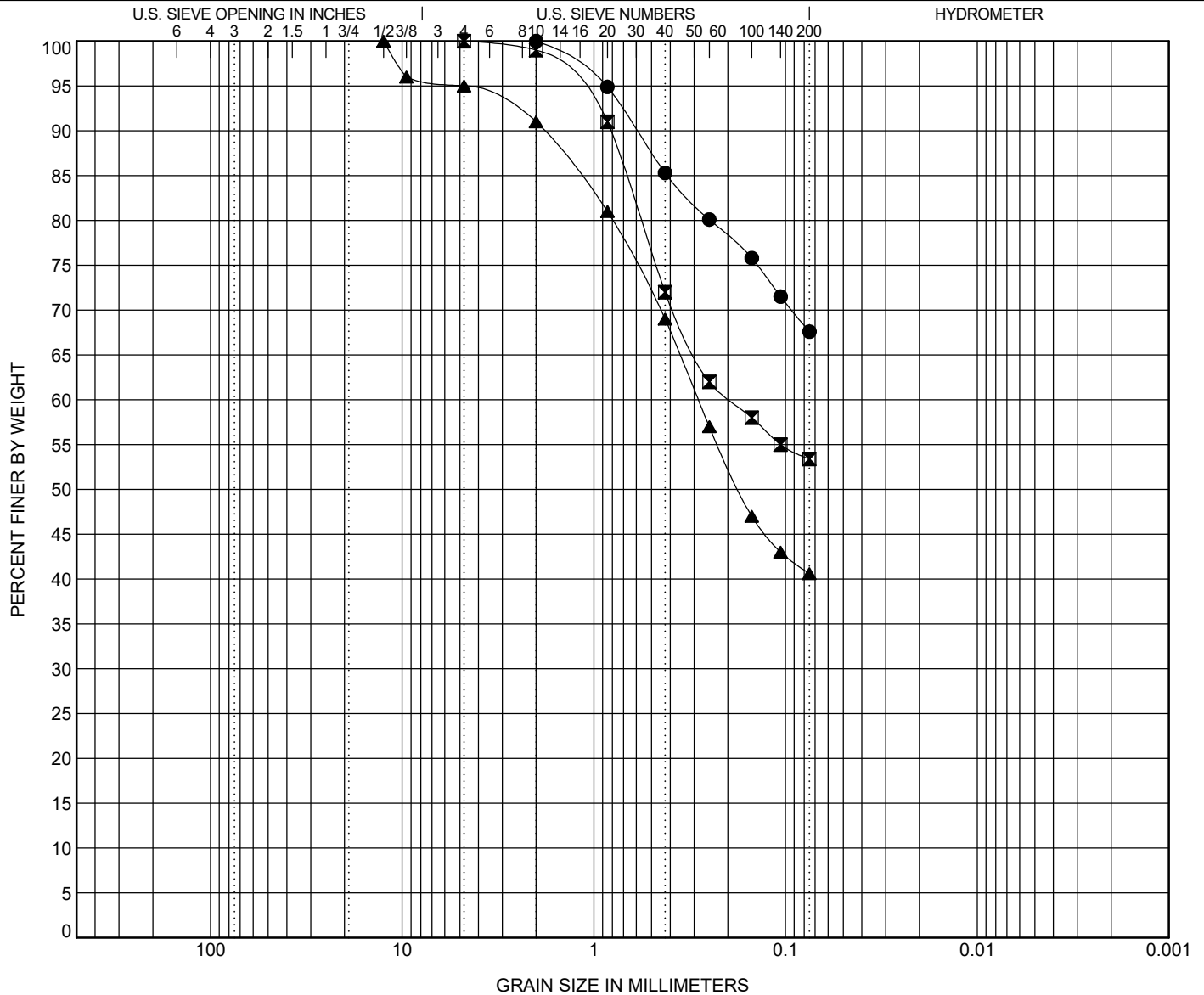


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

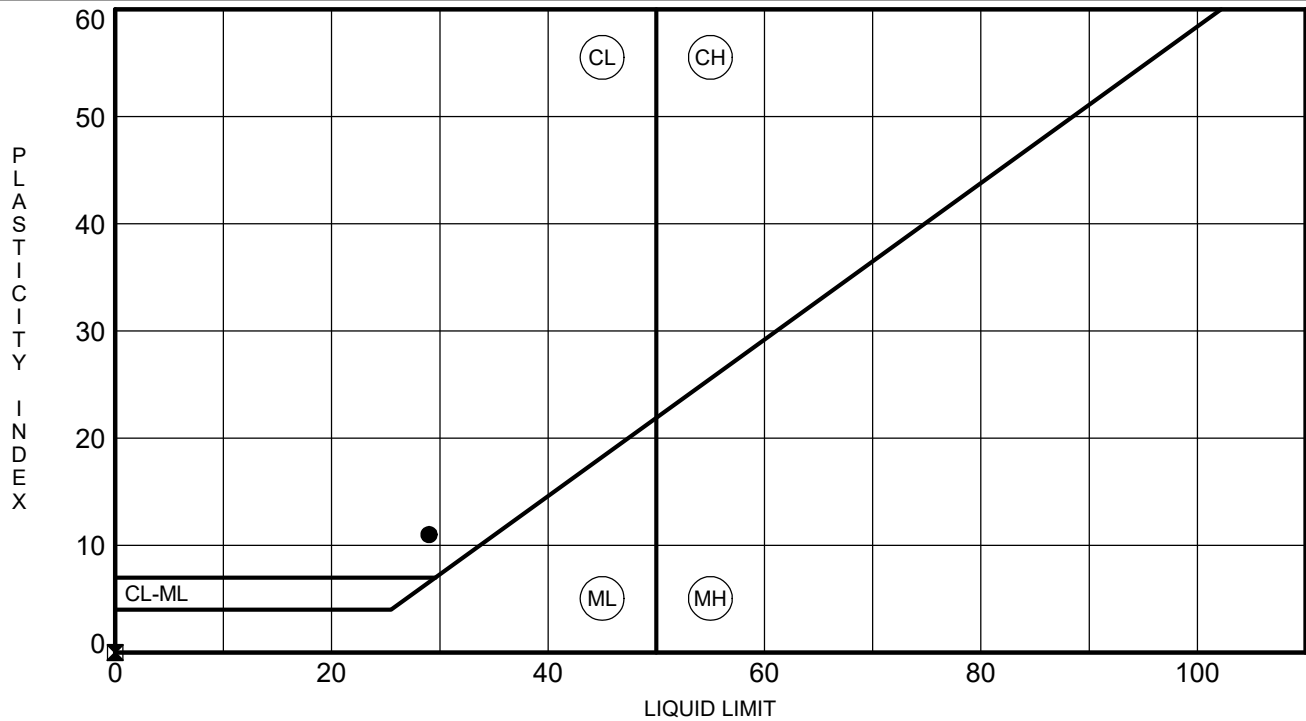
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● DR-4	14.1	SANDY LEAN CLAY(CL)					23	14	9		
■ DR-4	19.1	SANDY LEAN CLAY(CL)					43	17	26		
▲ DR-4	24.1	CLAYEY SAND(SC)					31	17	14		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● DR-4	14.1	2				0.0	32.4	67.6			
■ DR-4	19.1	4.75	0.194			0.0	46.6	53.4			
▲ DR-4	24.1	12.5	0.285			5.0	54.4	40.6			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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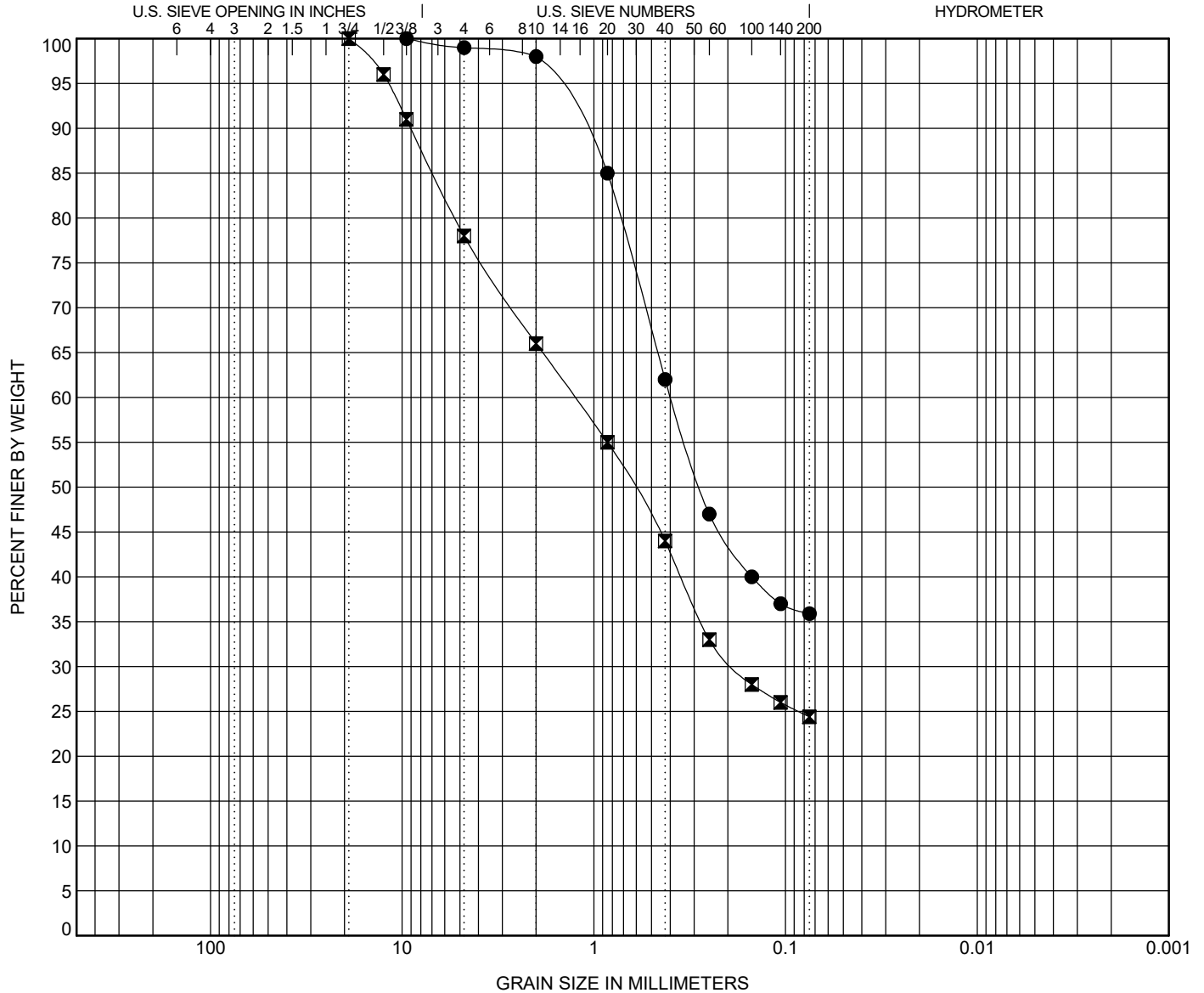


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

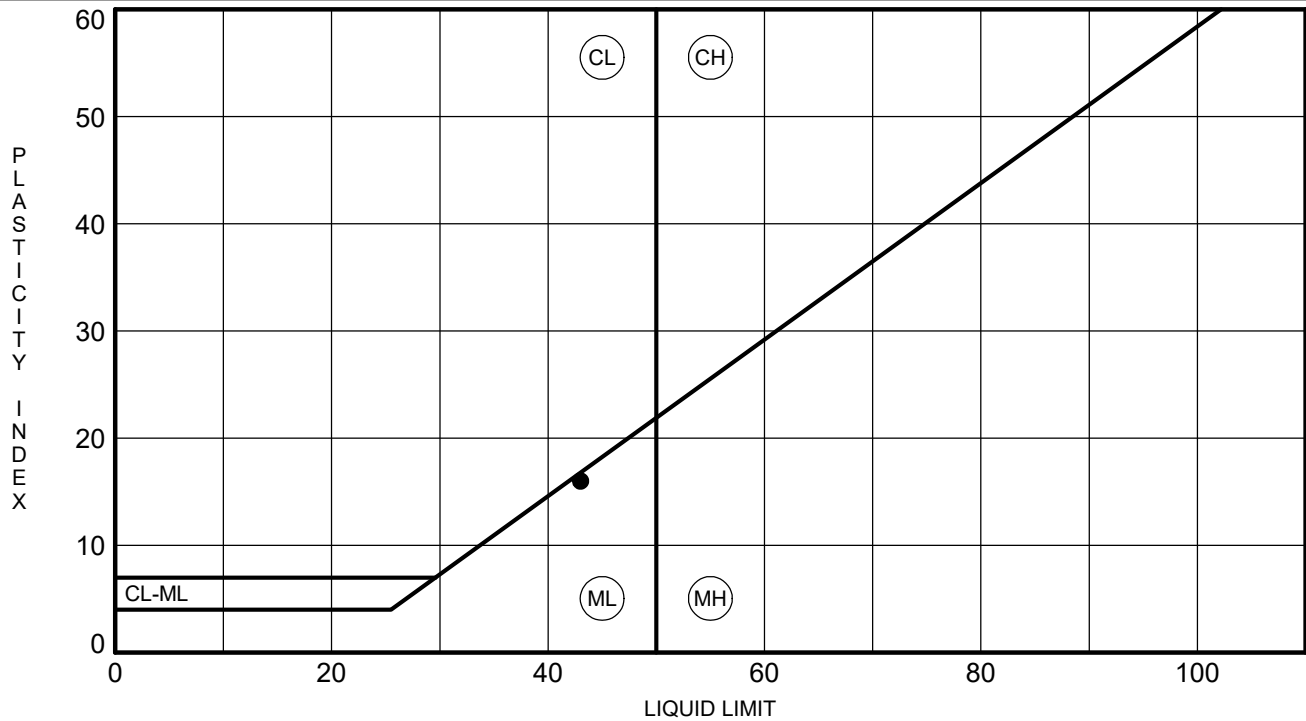
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-001	8.0	CLAYEY SAND(SC)					29	18	11		
☒ G-001	19.3	SILTY SAND with GRAVEL(SM)					NP	NP	NP		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-001	8.0	9.5	0.396			1.0	63.1	35.9			
☒ G-001	19.3	19	1.254	0.184		22.0	53.6	24.4			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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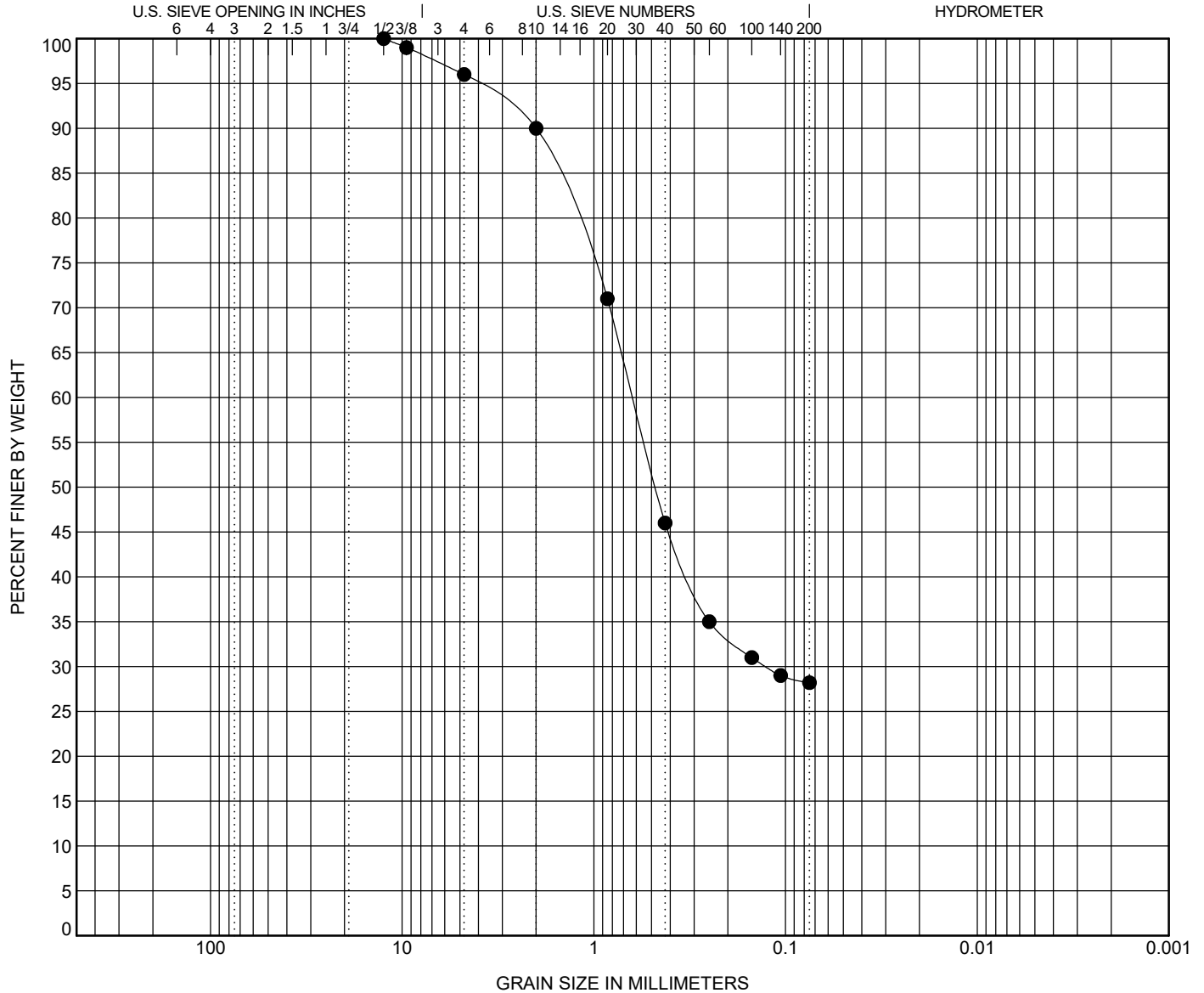


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

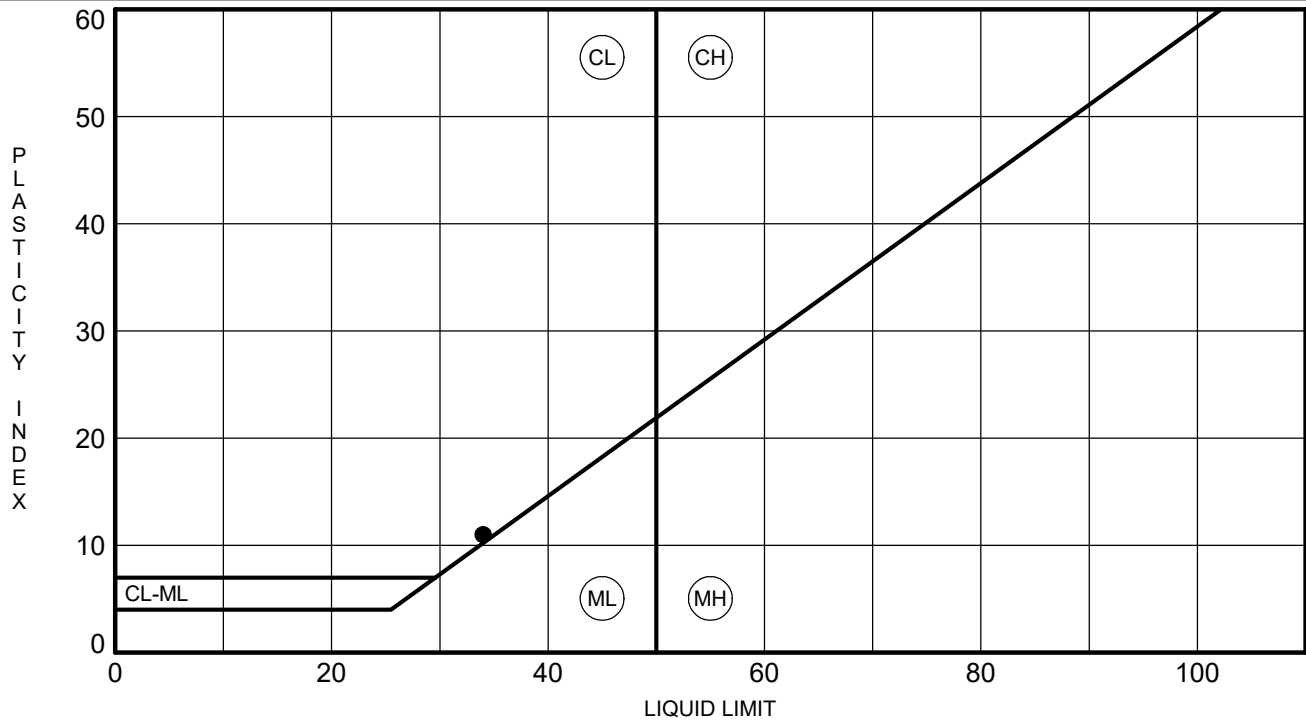
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-003	6.0	SILTY SAND(SM)					43	27	16		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-003	6.0	12.5	0.627	0.126		4.0	67.8	28.2			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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PROJECT COUNTY Richland

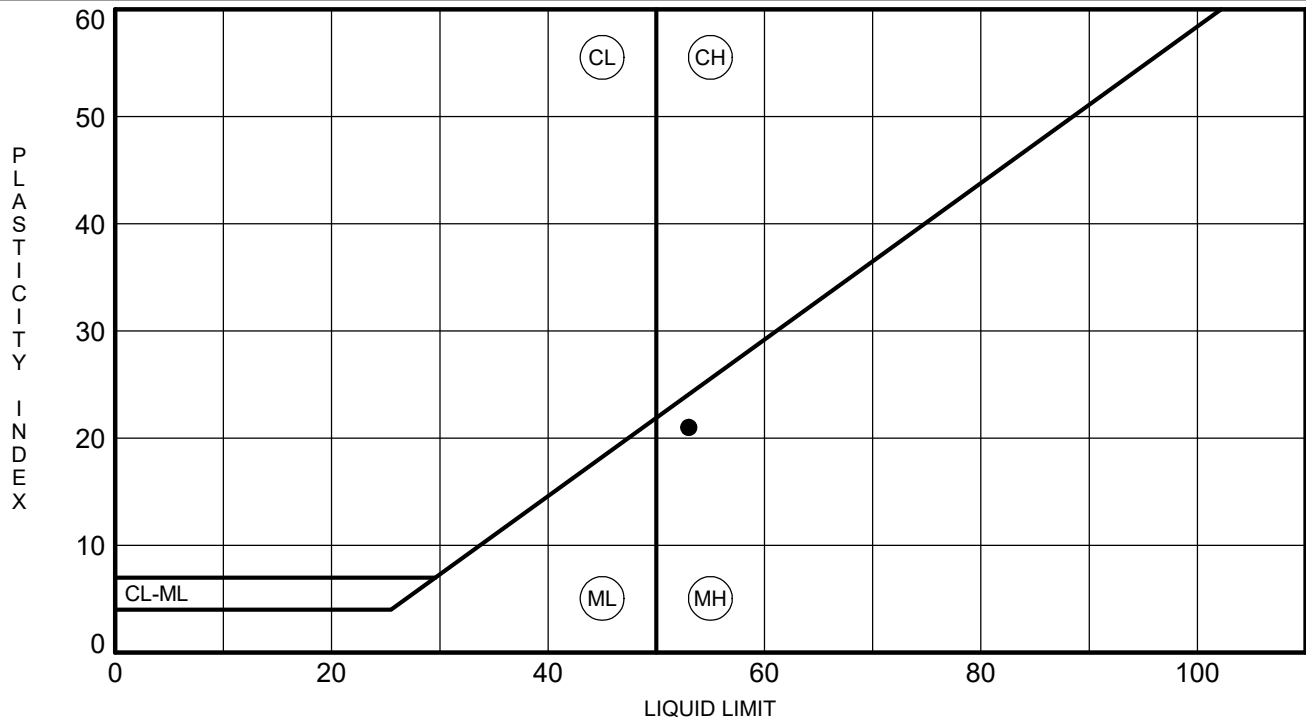
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ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

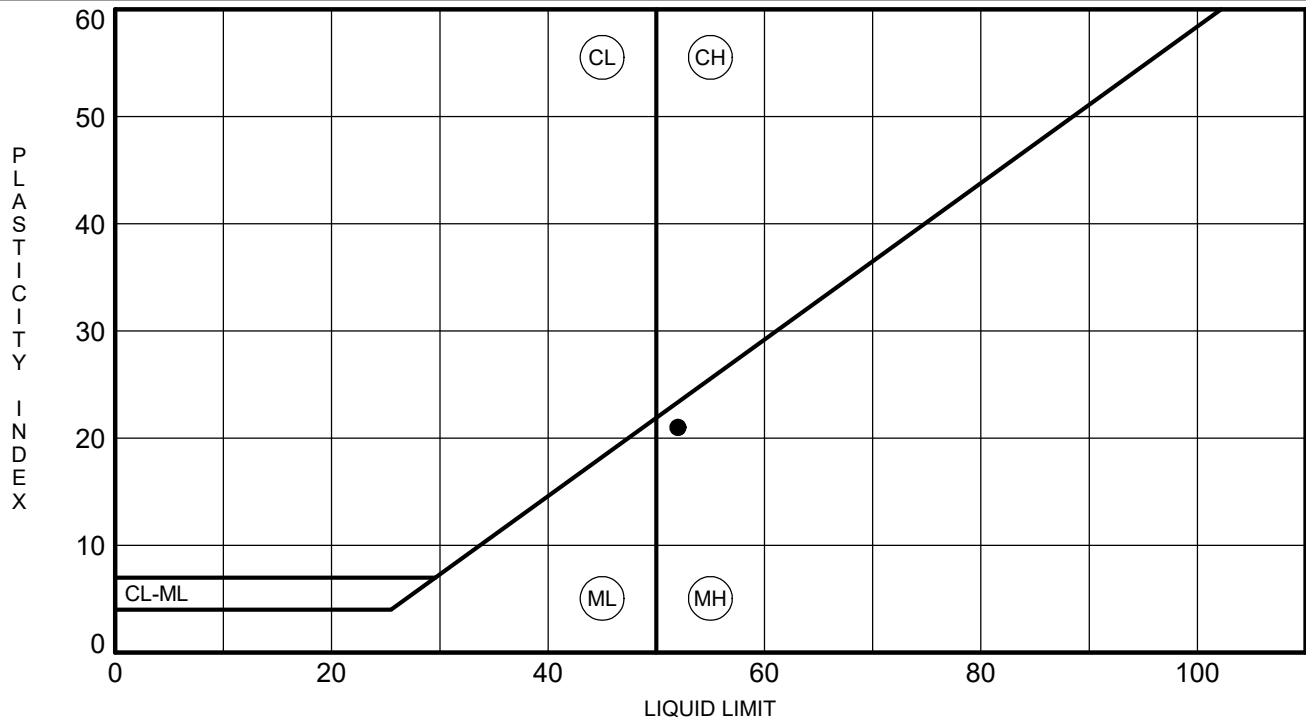
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ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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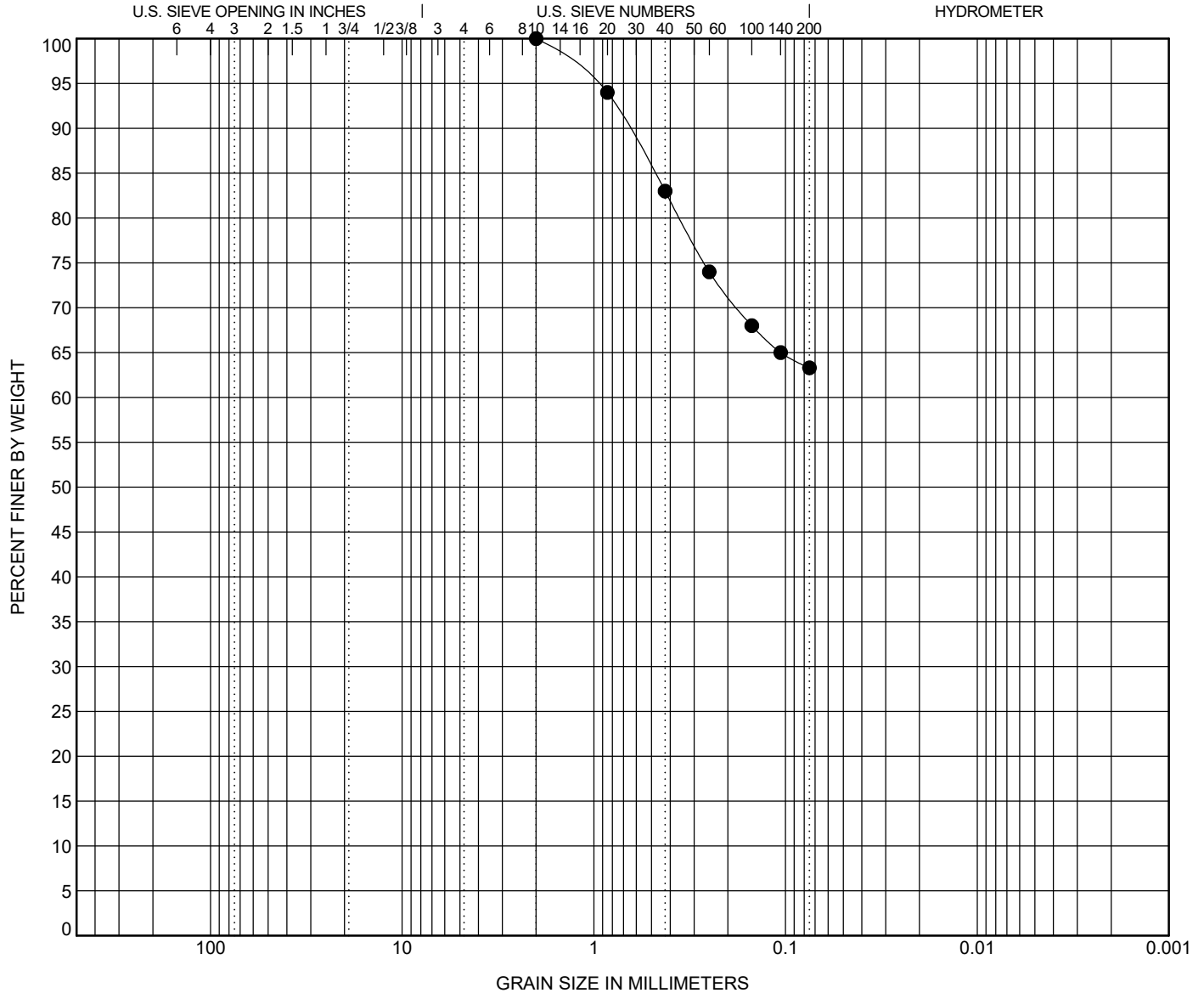


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

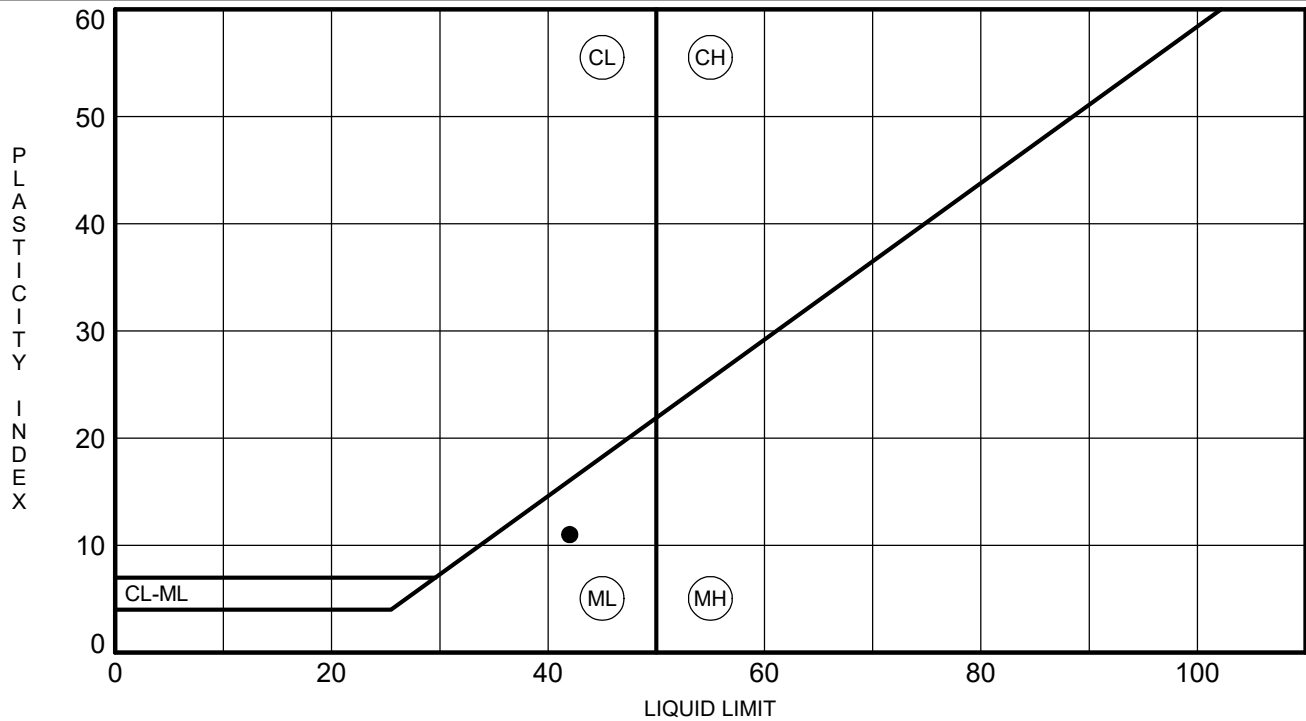
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-006	2.0	SANDY ELASTIC SILT(MH)					52	31	21		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-006	2.0	2				0.0	36.7	63.3			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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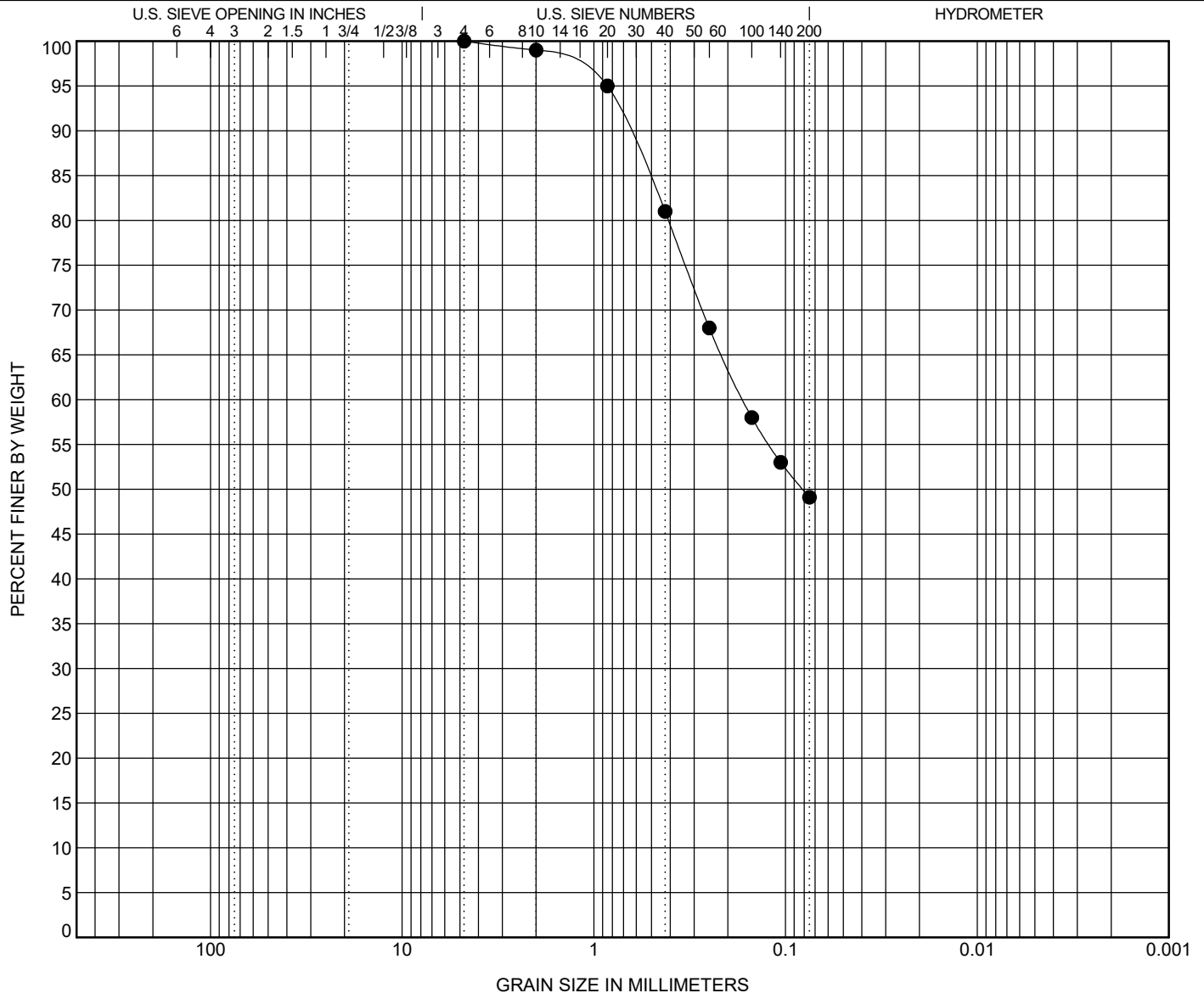


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

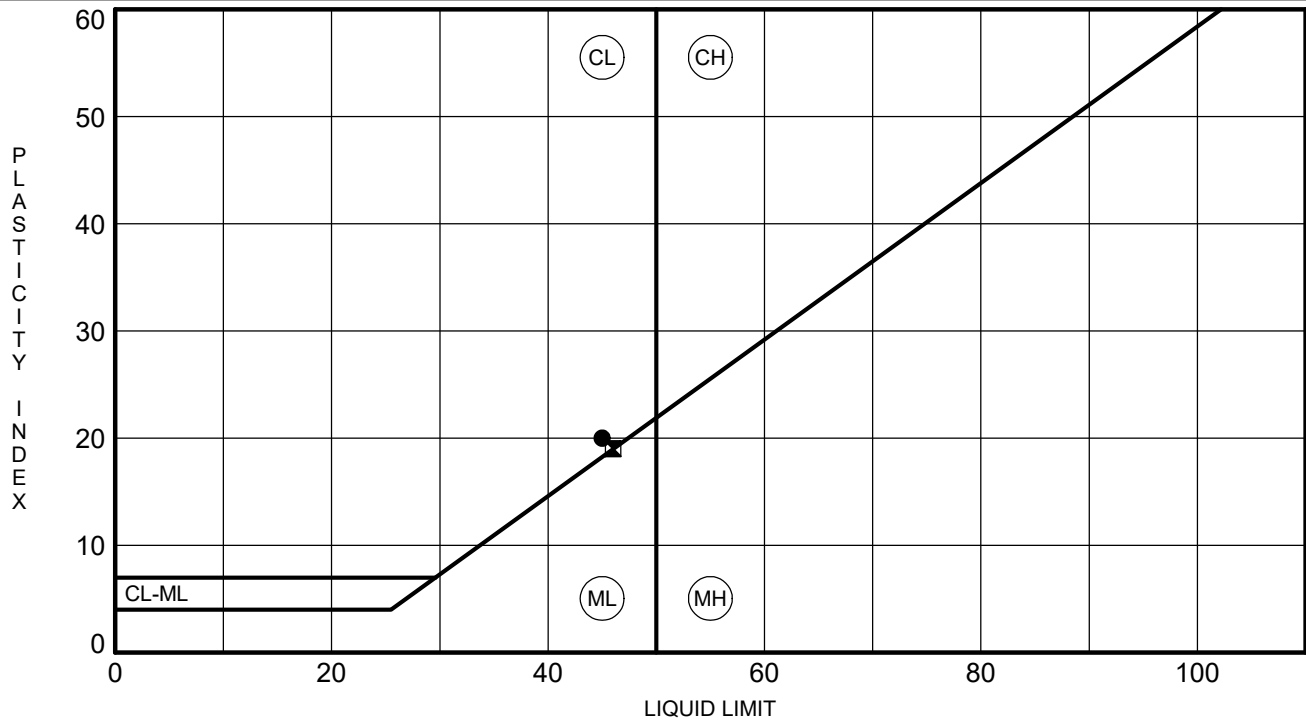
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-007	4.0	SILTY SAND(SM)					42	31	11		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-007	4.0	4.75	0.166			0.0	50.9	49.1			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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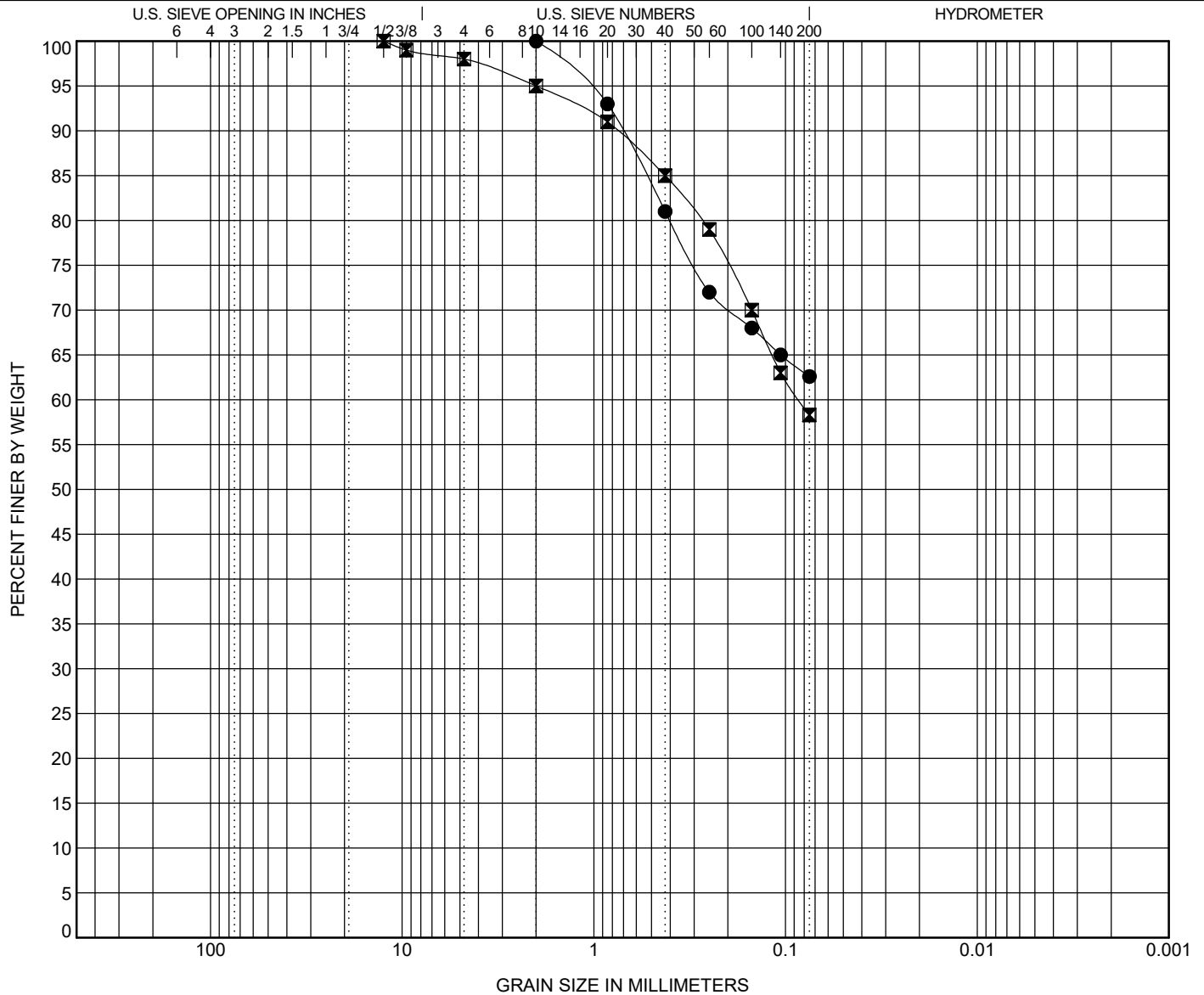


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

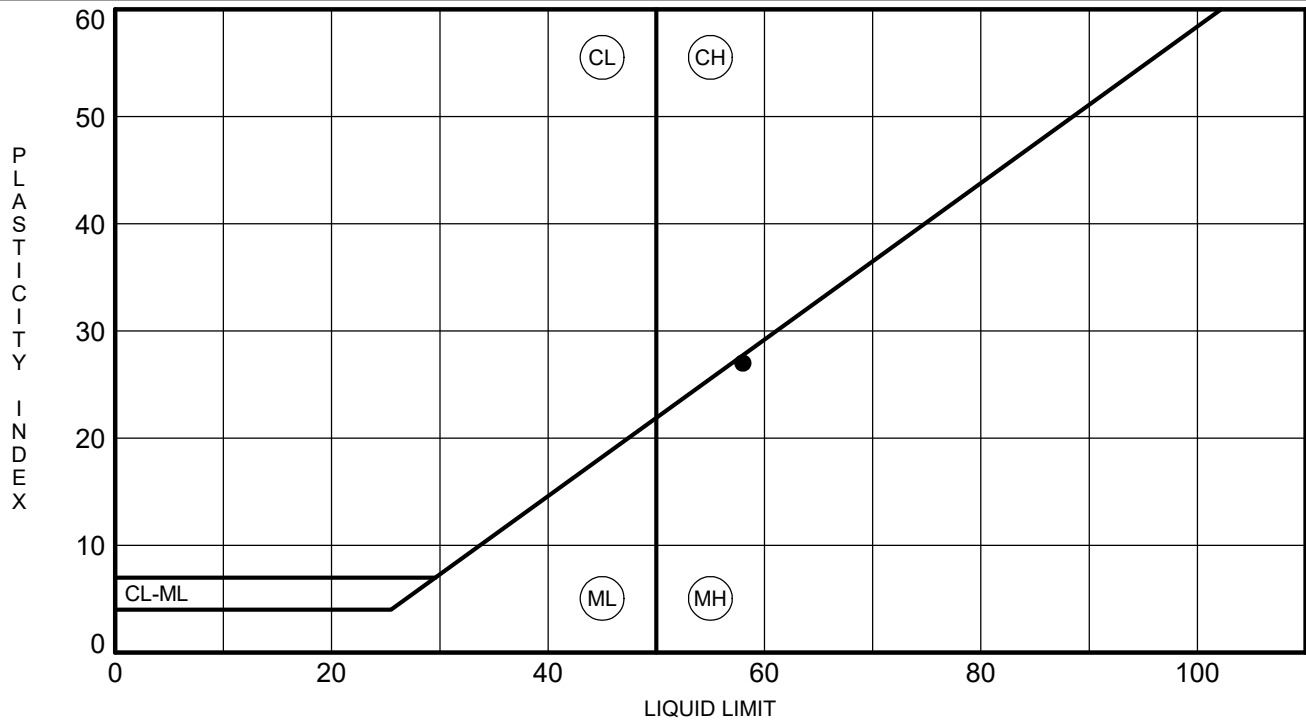
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-008	4.0	SANDY LEAN CLAY(CL)					45	25	20		
☒ G-008	19.1	SANDY LEAN CLAY(CL)					46	27	19		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-008	4.0	2				0.0	37.4	62.6			
☒ G-008	19.1	12.5	0.085			2.0	39.7	58.3			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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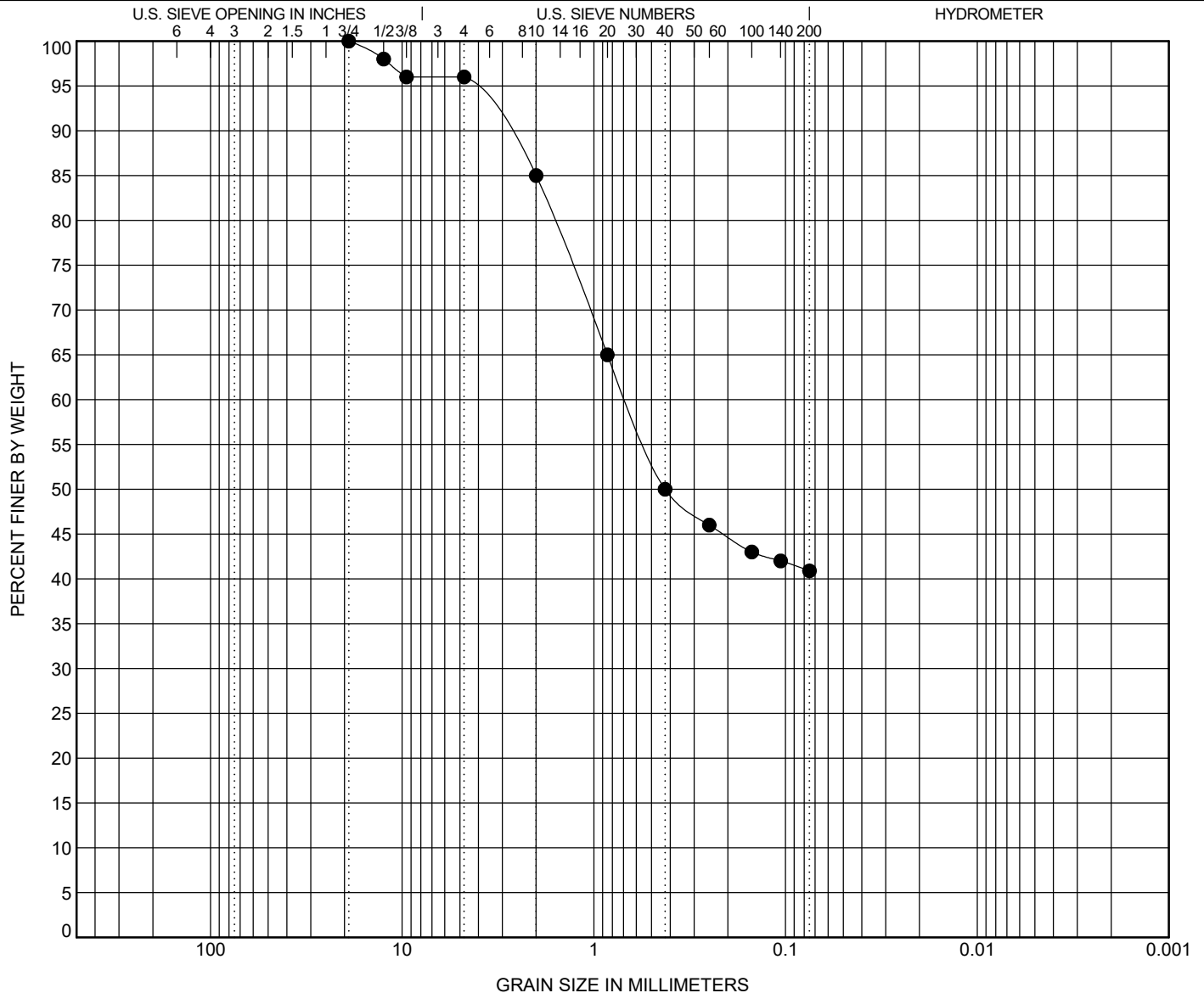


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

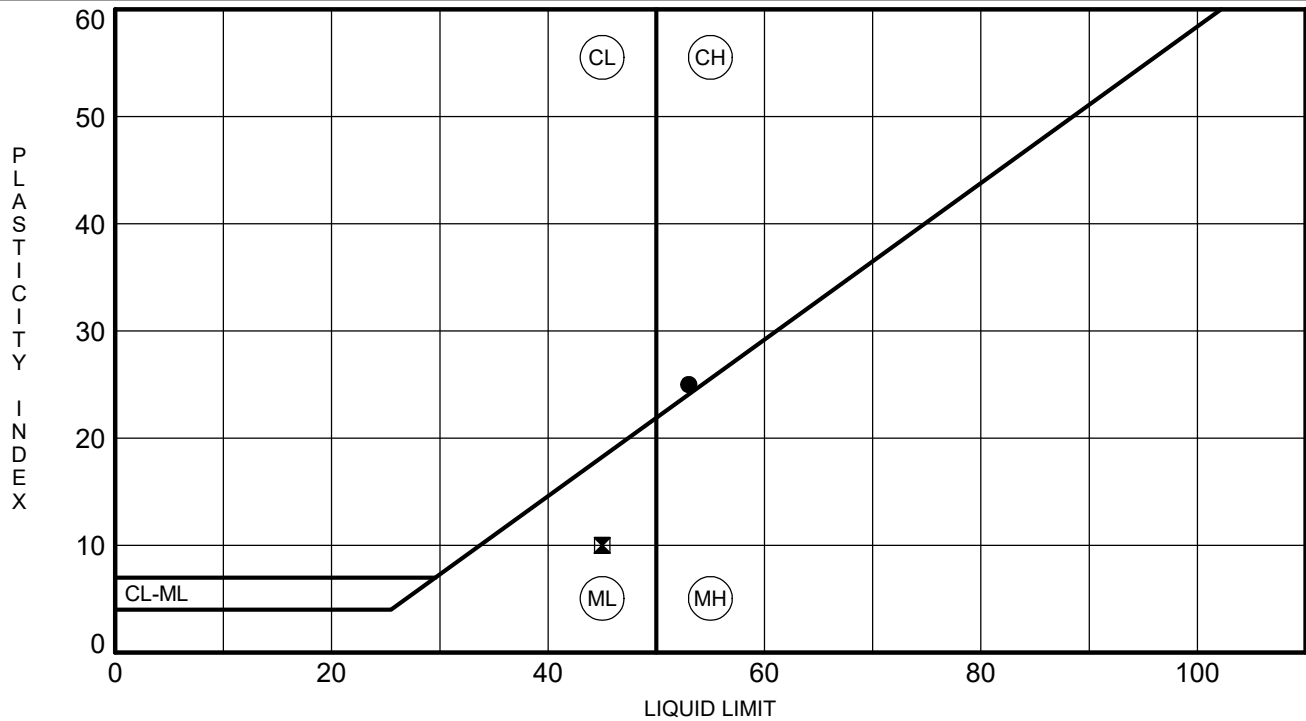
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-009	2.0	SILTY SAND(SM)					58	31	27		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-009	2.0	19	0.675			4.0	55.1	40.9			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

[illegible]

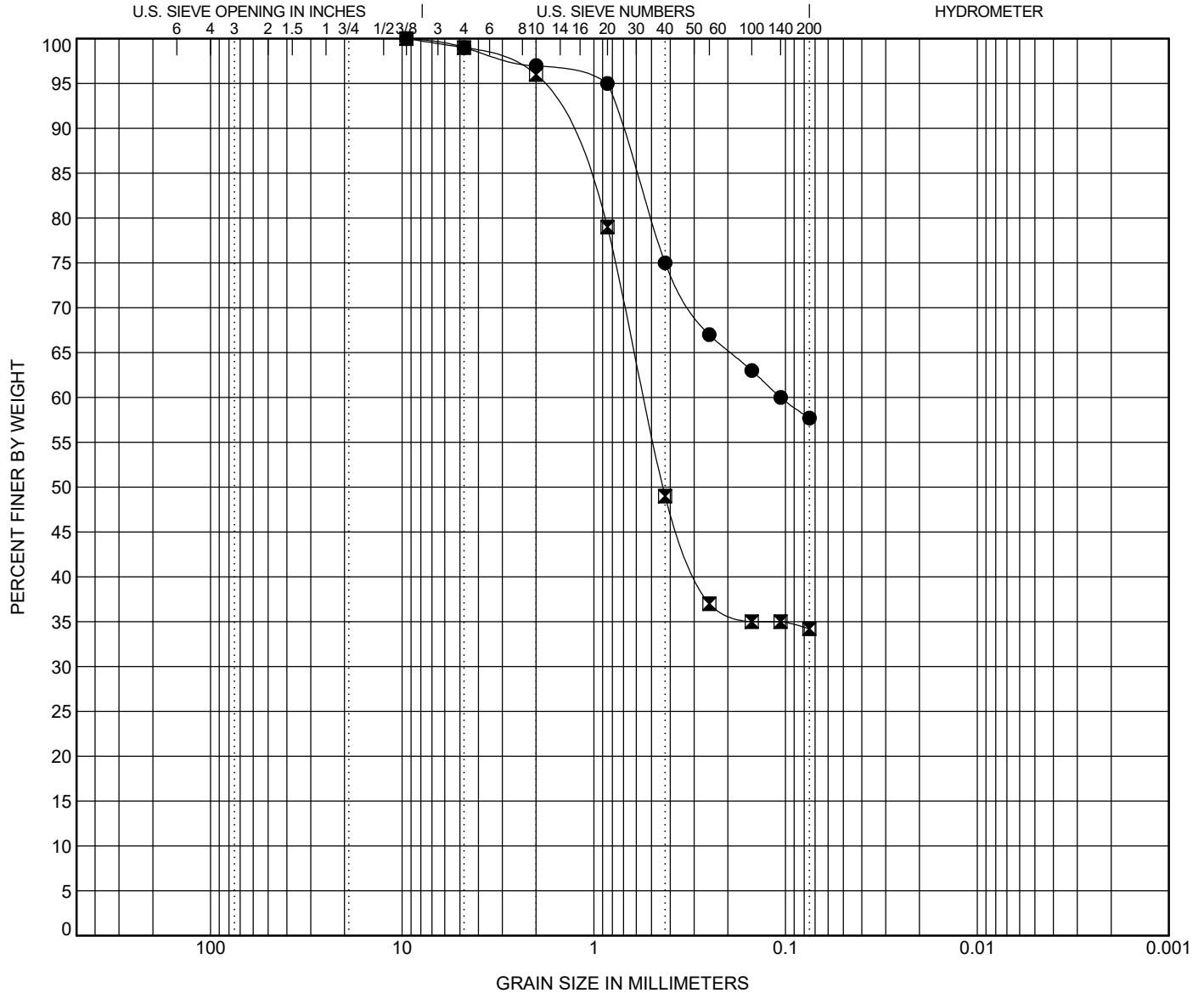


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

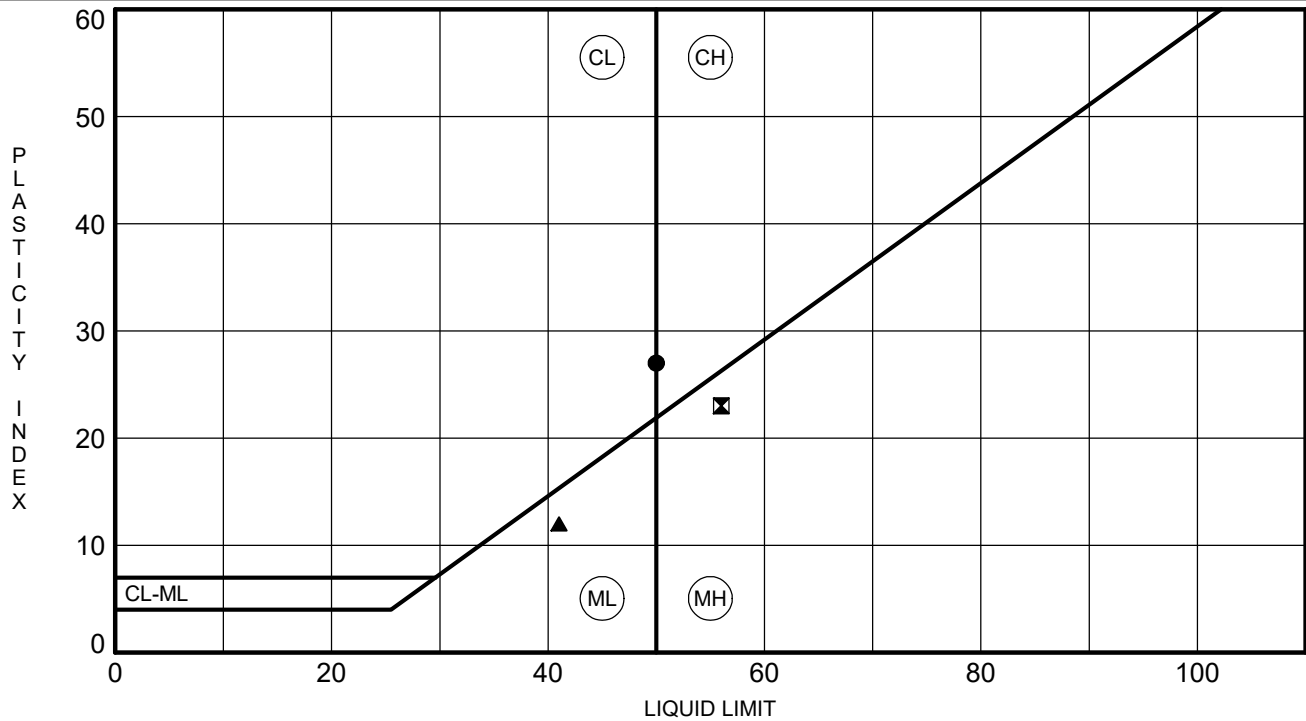
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-010	4.0	SANDY FAT CLAY(CH)					53	28	25		
☒ G-010	19.2	SILTY SAND(SM)					45	35	10		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-010	4.0	9.5	0.106			1.0	41.3	57.7			
☒ G-010	19.2	9.5	0.548			1.0	64.8	34.2			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

[illegible]

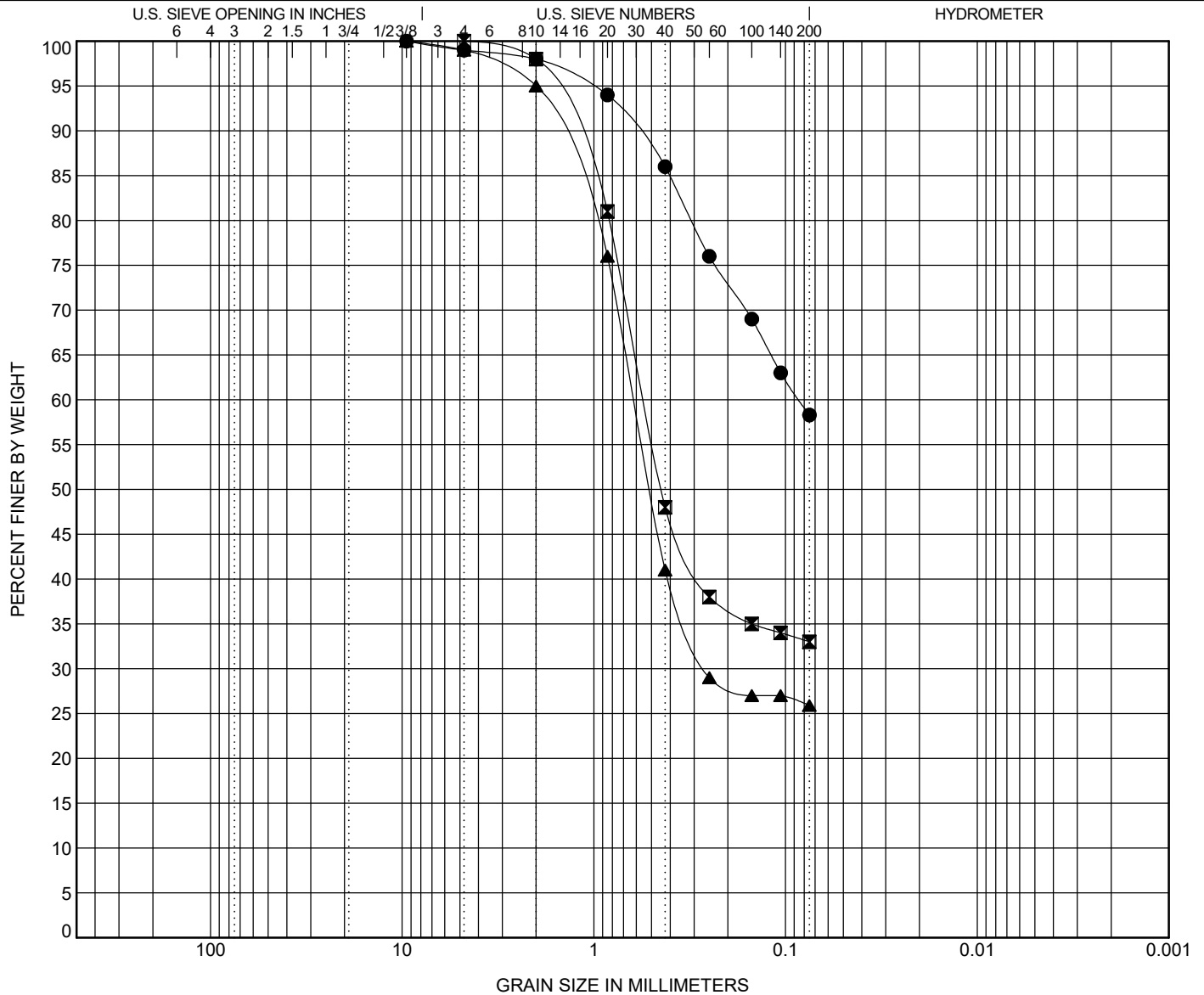


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

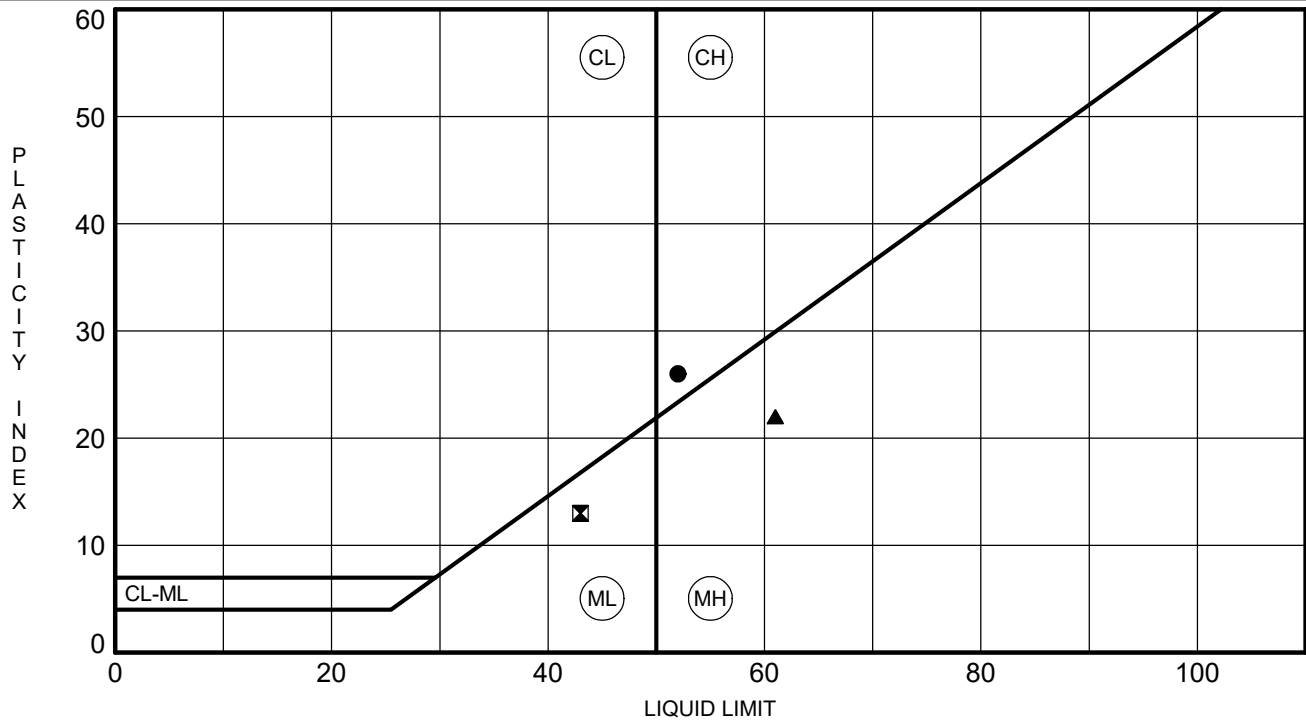
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-011	6.0	SANDY FAT CLAY(CH)					50	23	27		
■ G-011	18.0	SILTY SAND(SM)					56	33	23		
▲ G-011	24.0	SILTY SAND(SM)					41	29	12		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-011	6.0	9.5	0.085			1.0	40.7	58.3			
■ G-011	18.0	4.75	0.547			0.0	67.0	33.0			
▲ G-011	24.0	9.5	0.619	0.261		1.0	73.1	25.9			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

[illegible]

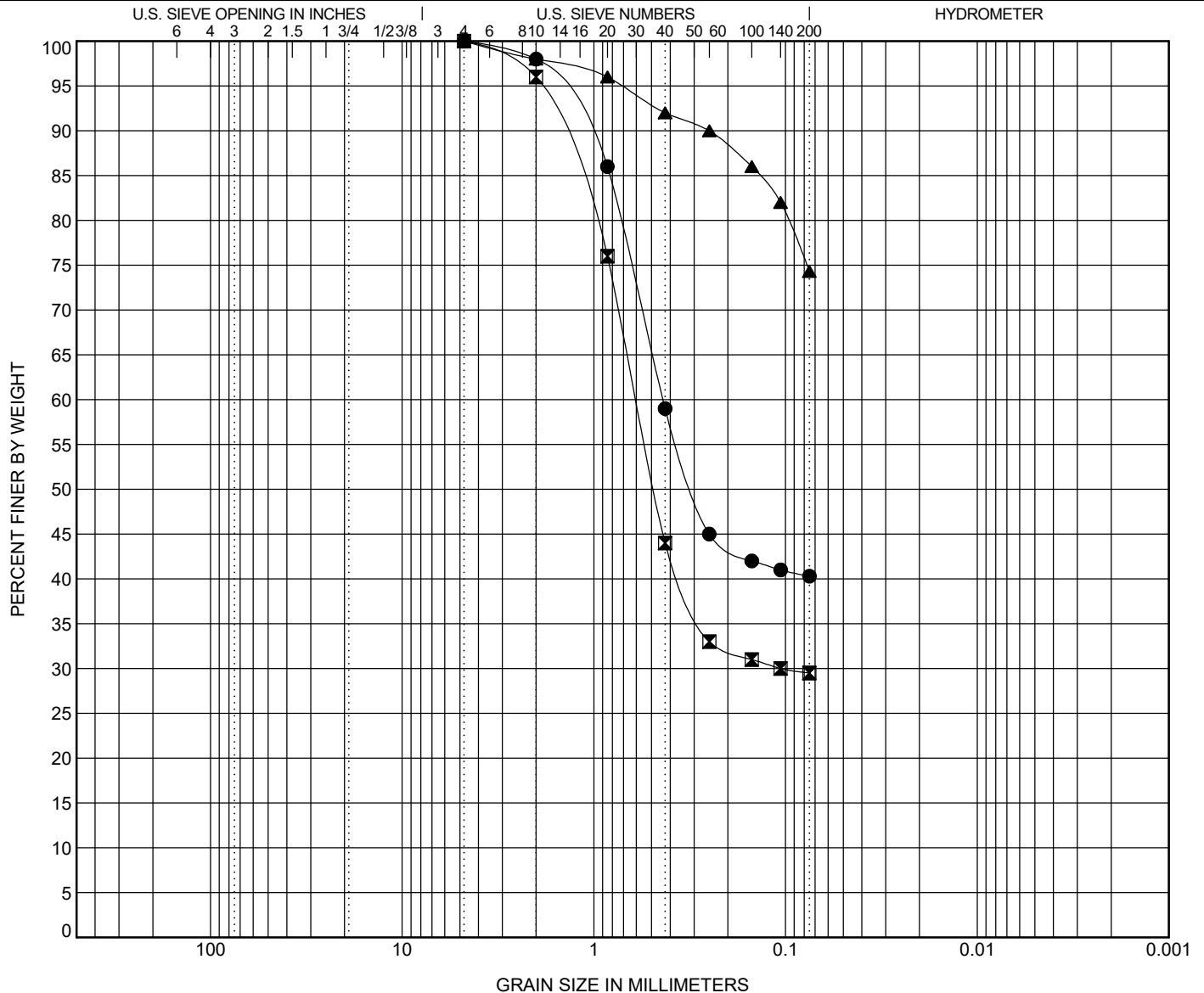


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

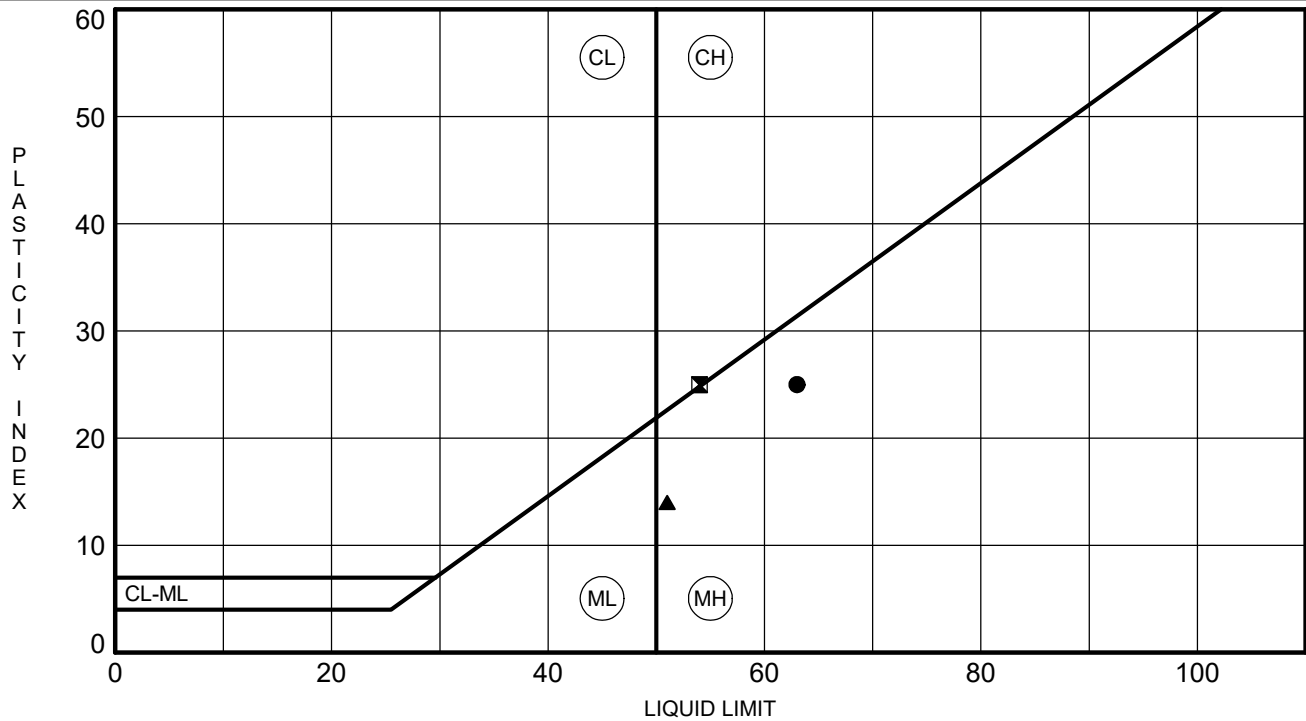
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-012	8.0	CLAYEY SAND(SC)					52	26	26		
☒ G-012	19.3	SILTY SAND(SM)					43	30	13		
▲ G-012	29.3	ELASTIC SILT with SAND(MH)					61	39	22		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-012	8.0	4.75	0.436			0.0	59.7	40.3			
☒ G-012	19.3	4.75	0.601	0.106		0.0	70.5	29.5			
▲ G-012	29.3	4.75				0.0	25.7	74.3			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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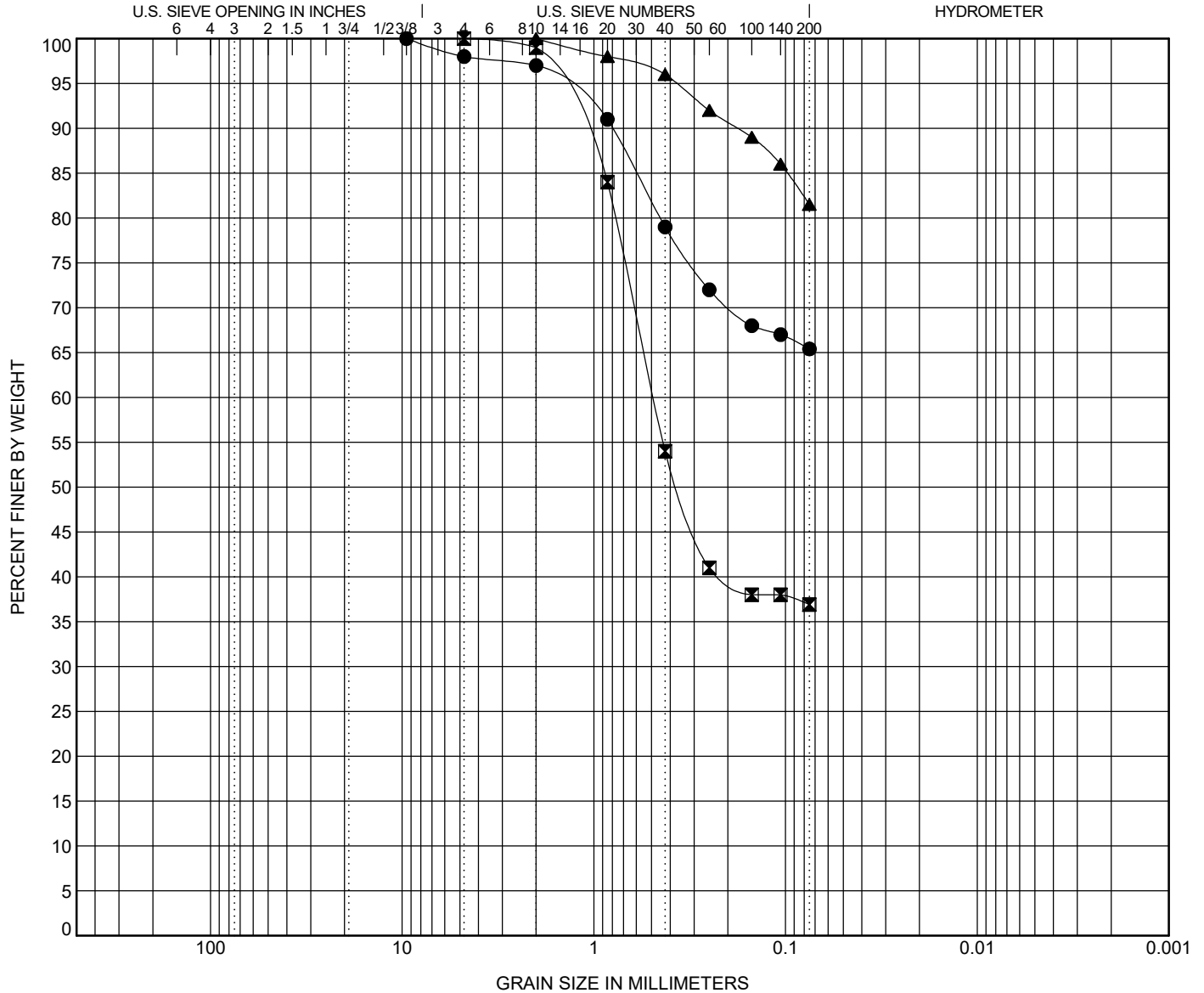


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

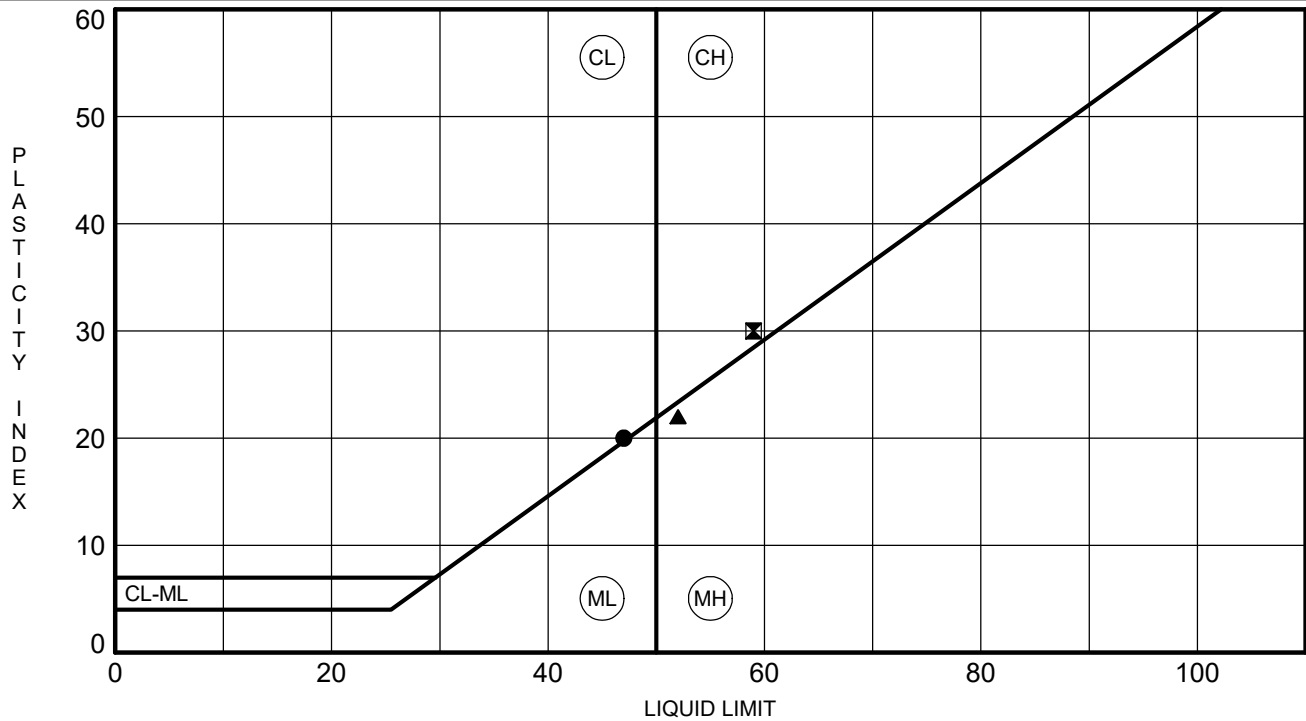
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-013	6.0	SANDY ELASTIC SILT(MH)					63	38	25		
☒ G-013	19.3	CLAYEY SAND(SC)					54	29	25		
▲ G-013	29.3	ELASTIC SILT with SAND(MH)					51	37	14		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-013	6.0	9.5				2.0	32.6	65.4			
☒ G-013	19.3	4.75	0.488			0.0	63.1	36.9			
▲ G-013	29.3	2				0.0	18.5	81.5			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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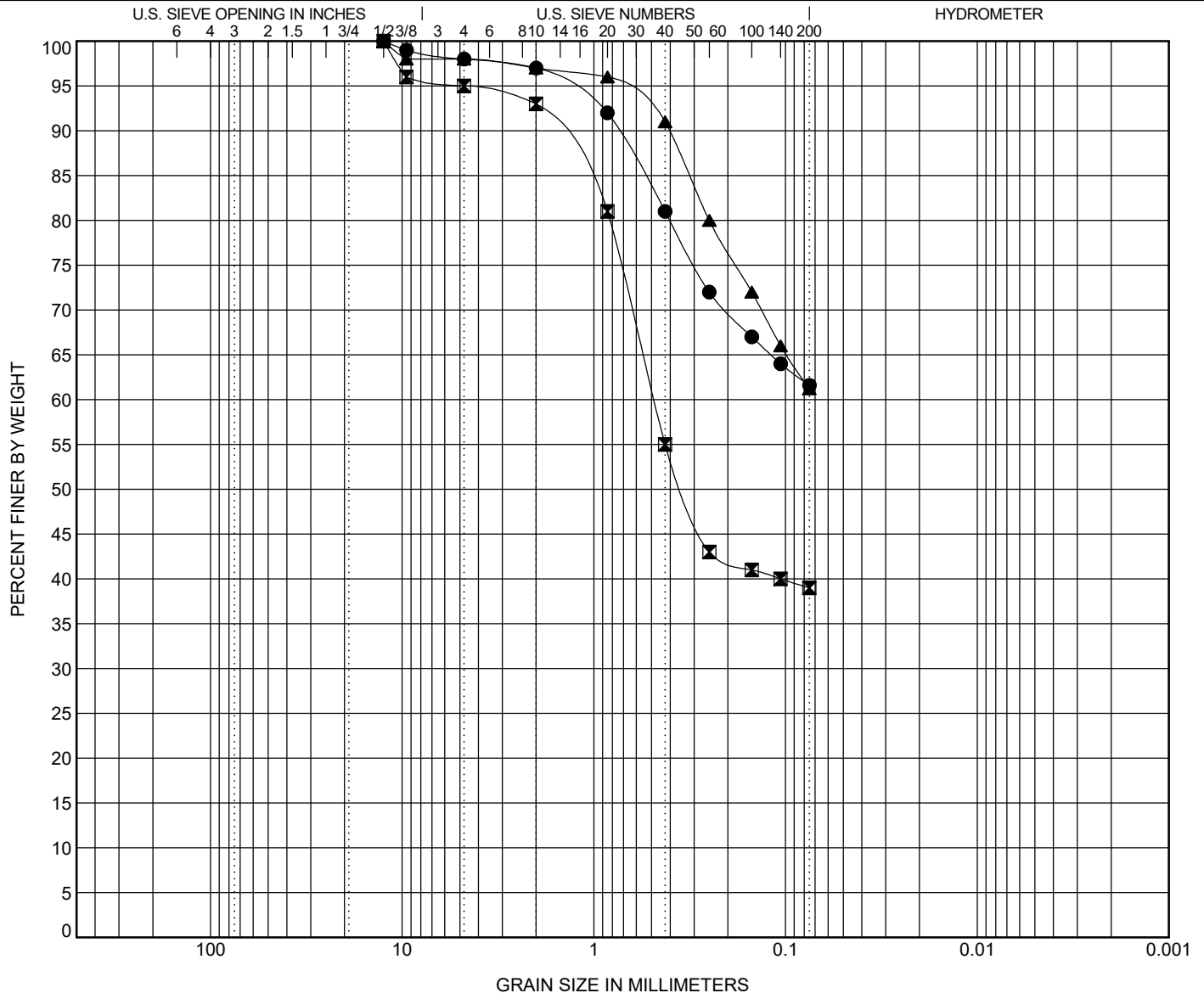


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

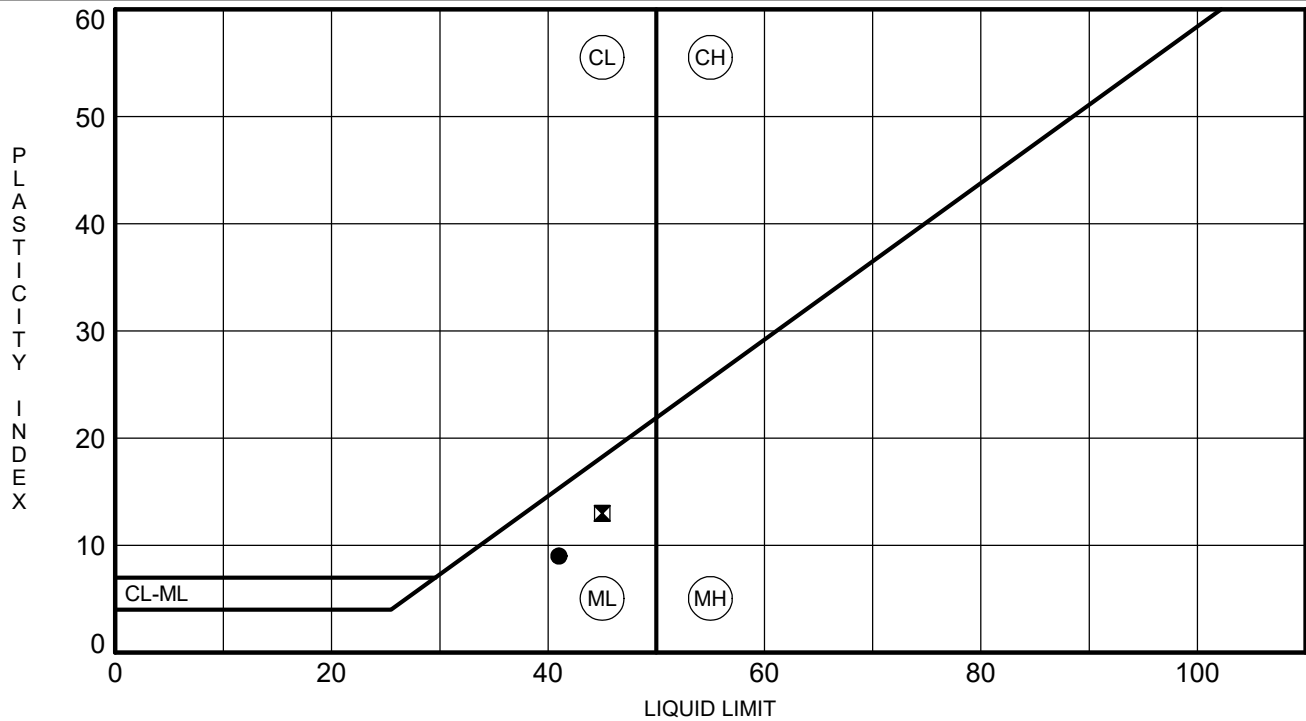
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-015	4.2	SANDY LEAN CLAY(CL)					47	27	20		
■ G-015	14.3	CLAYEY SAND(SC)					59	29	30		
▲ G-015	19.3	SANDY ELASTIC SILT(MH)					52	30	22		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-015	4.2	12.5				2.0	36.4	61.6			
■ G-015	14.3	12.5	0.486			5.0	56.0	39.0			
▲ G-015	19.3	12.5				2.0	36.8	61.2			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

[illegible]

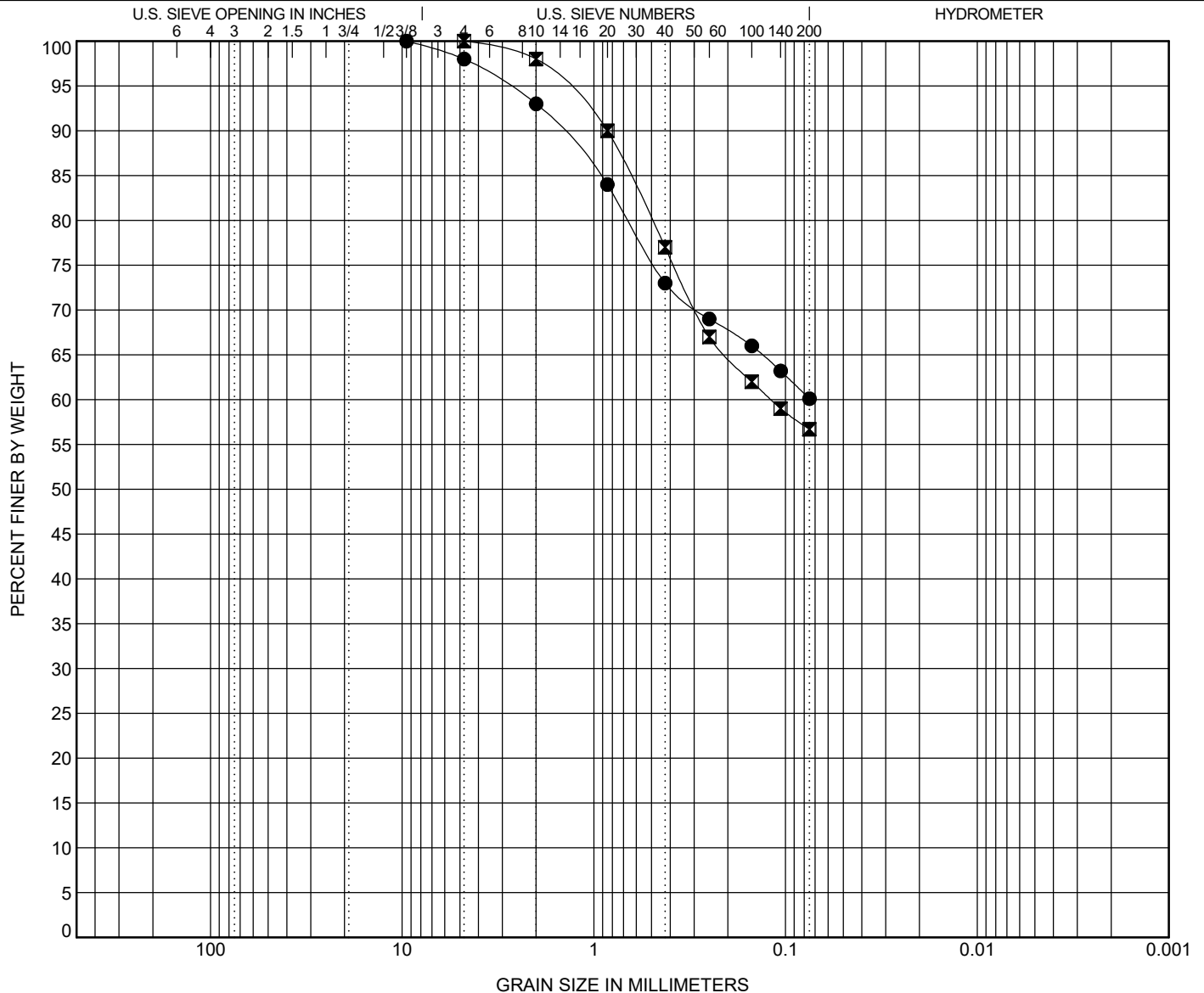


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

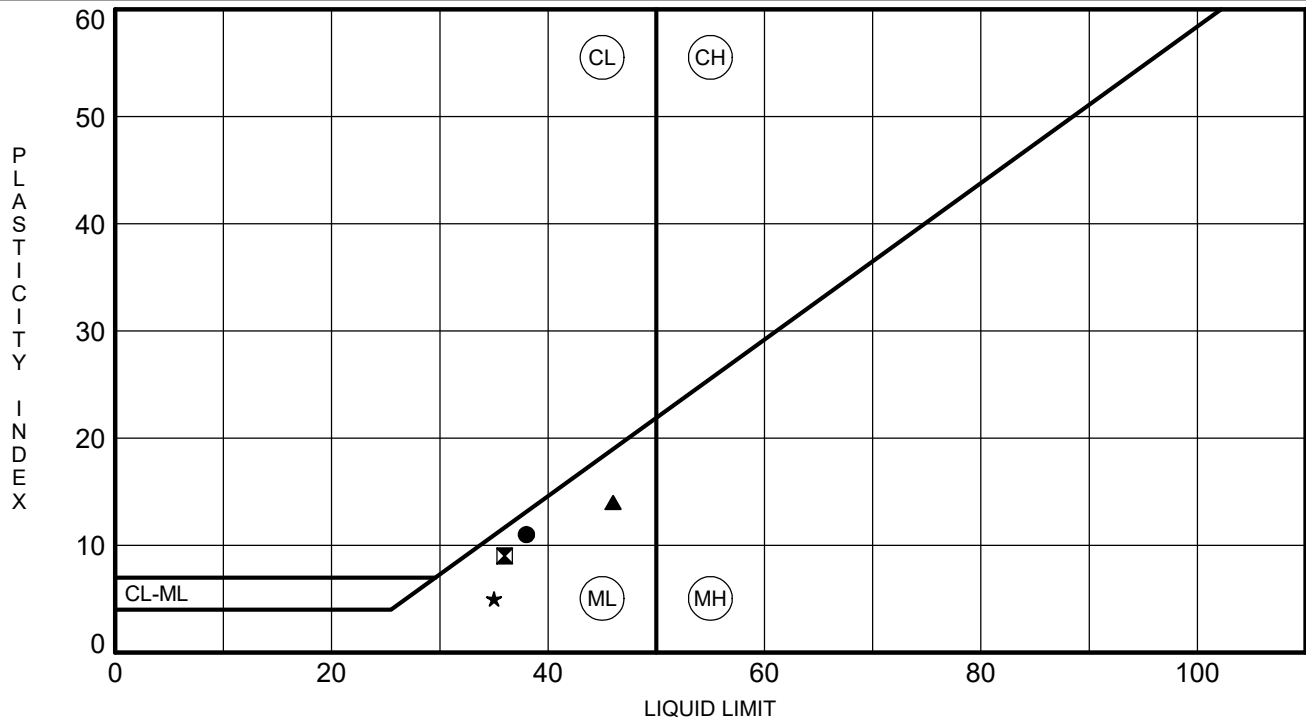
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-016	4.0	SANDY SILT(ML)					41	32	9		
☒ G-016	14.1	SANDY SILT(ML)					45	32	13		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-016	4.0	9.5				2.0	37.9	60.1			
☒ G-016	14.1	4.75	0.119			0.0	43.3	56.7			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

[illegible]

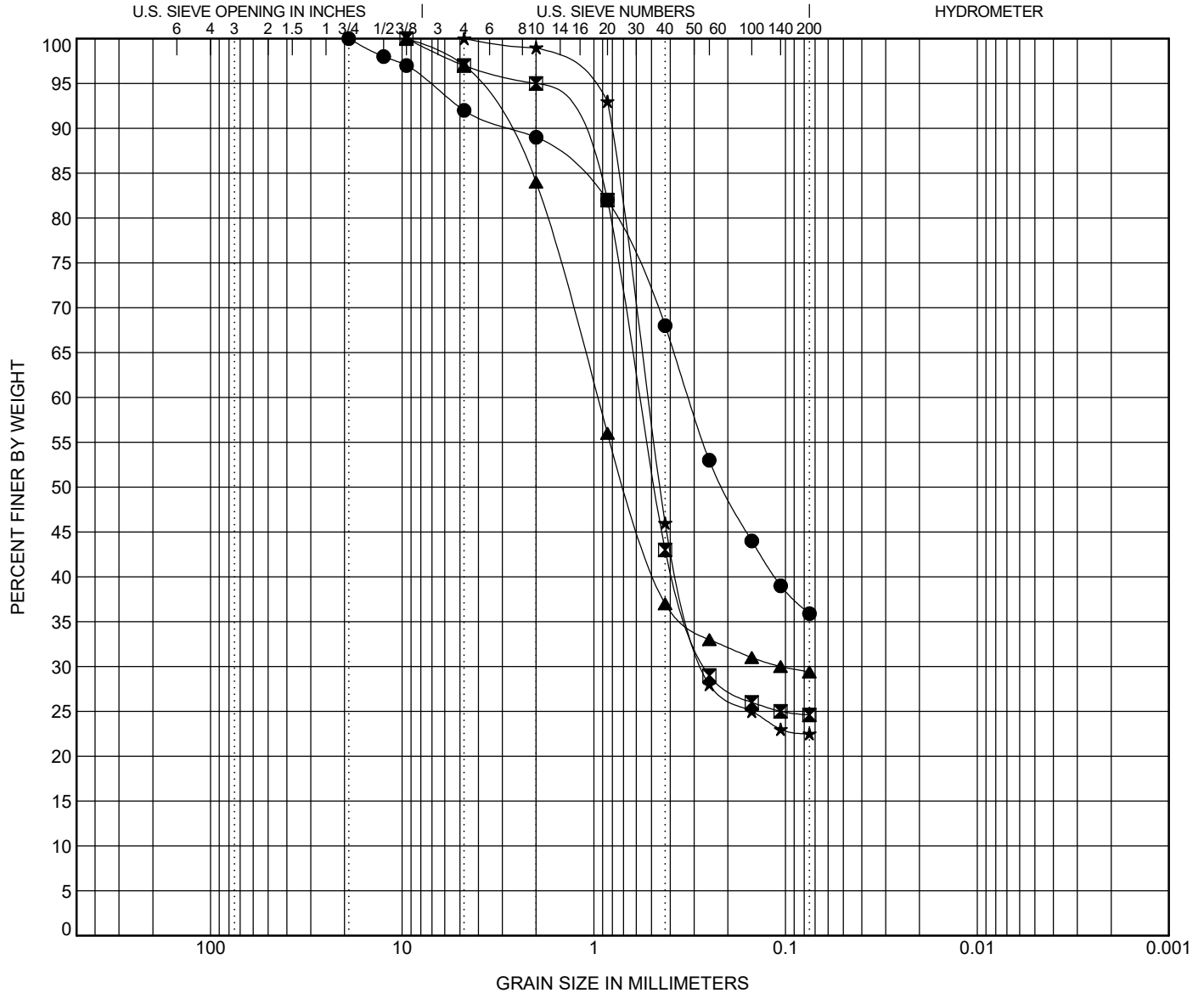


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

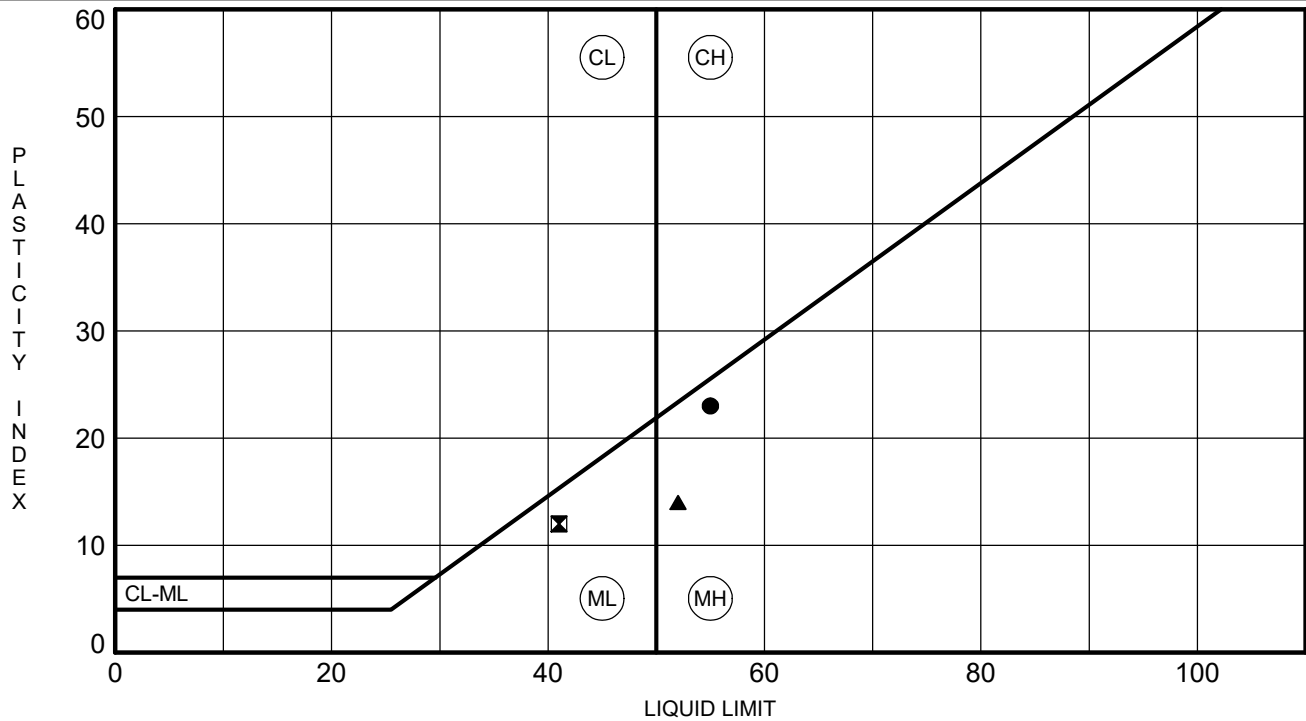
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-018	4.0	SILTY SAND(SM)					38	27	11		
☒ G-018	23.5	SILTY SAND(SM)					36	27	9		
▲ G-018	33.5	SILTY SAND(SM)					46	32	14		
★ G-018	38.5	SILTY SAND(SM)					35	30	5		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-018	4.0	19	0.32			8.0	56.1	35.9			
☒ G-018	23.5	9.5	0.575	0.26		3.0	72.4	24.6			
▲ G-018	33.5	9.5	0.961	0.106		3.0	67.6	29.4			
★ G-018	38.5	4.75	0.522	0.265		0.0	77.5	22.5			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

[illegible]

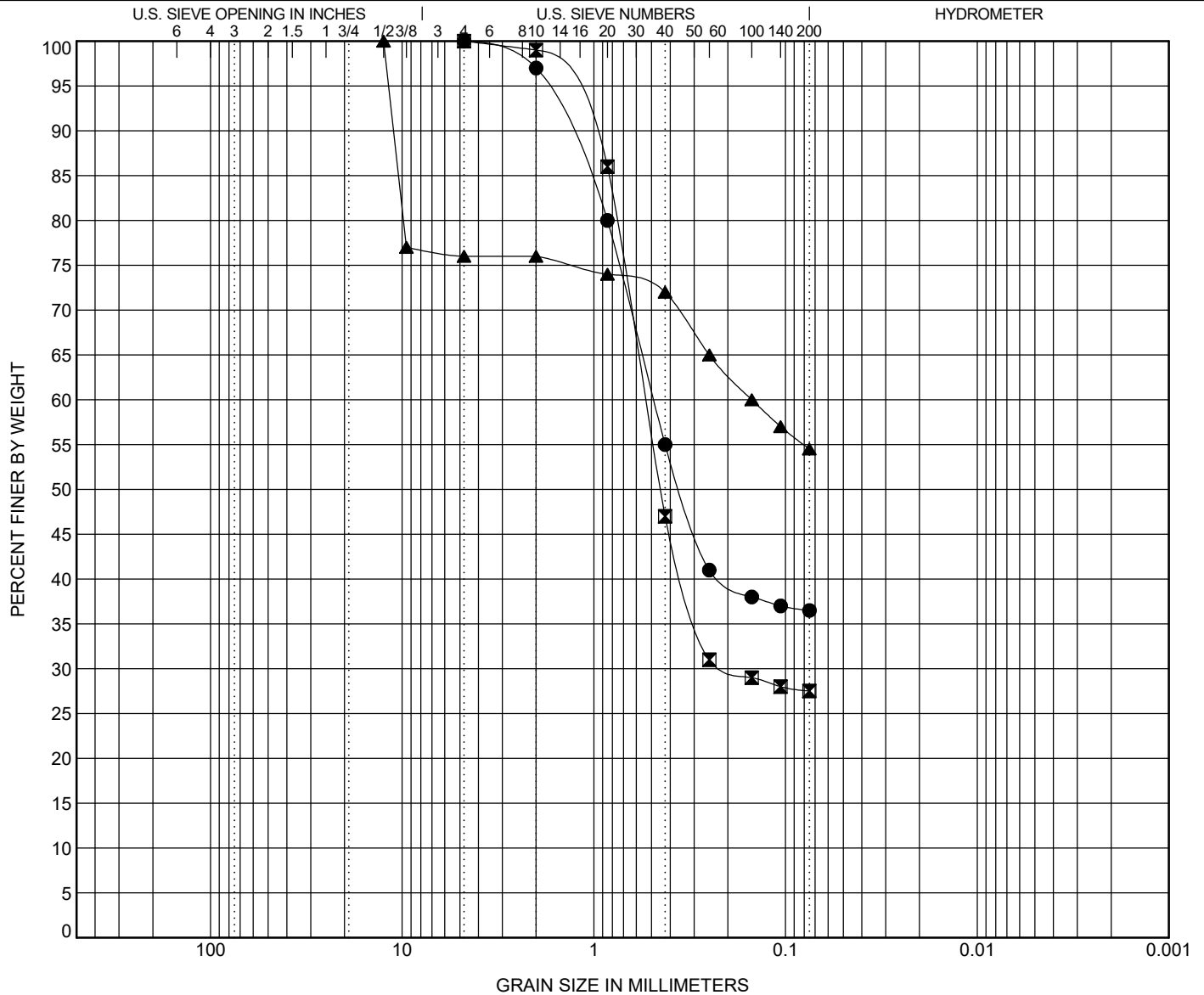


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

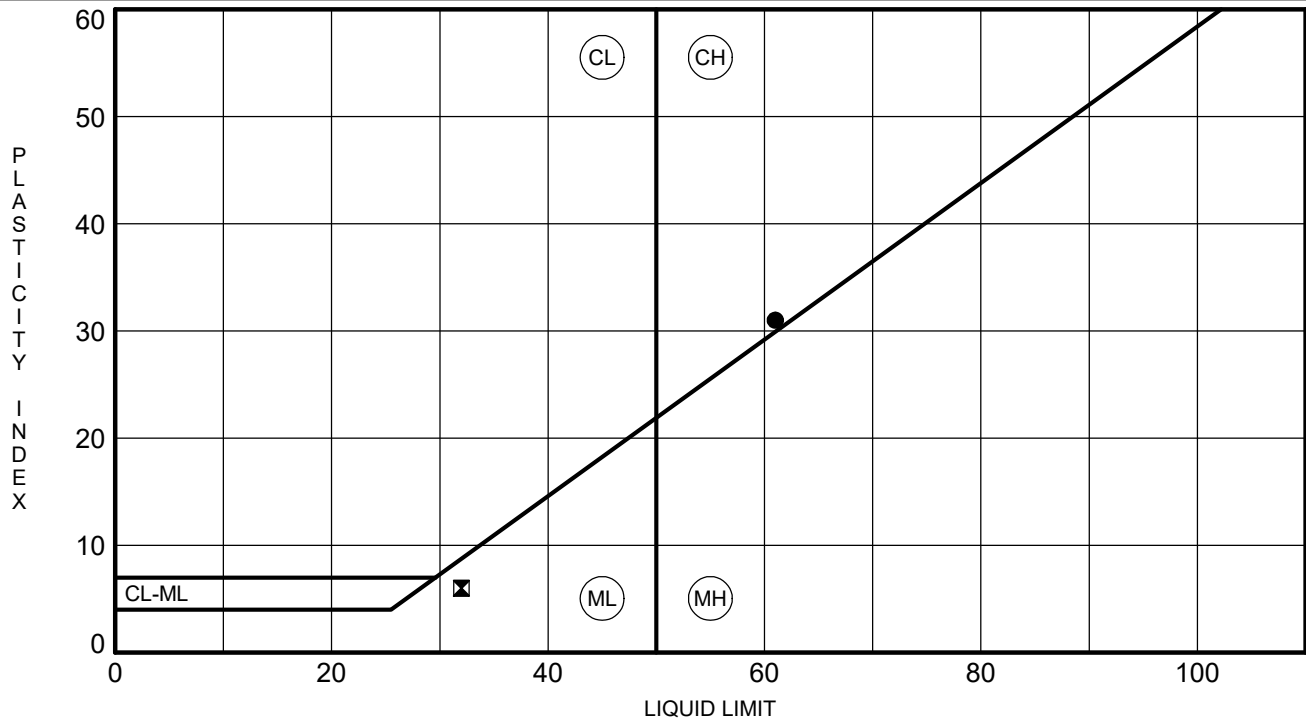
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-019	13.5	SILTY SAND(SM)					55	32	23		
■ G-019	23.5	SILTY SAND(SM)					41	29	12		
▲ G-019	33.5	GRAVELLY ELASTIC SILT with SAND(MH)					52	38	14		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-019	13.5	4.75	0.488			0.0	63.5	36.5			
■ G-019	23.5	4.75	0.535	0.194		0.0	72.5	27.5			
▲ G-019	33.5	12.5	0.15			24.0	21.5	54.5			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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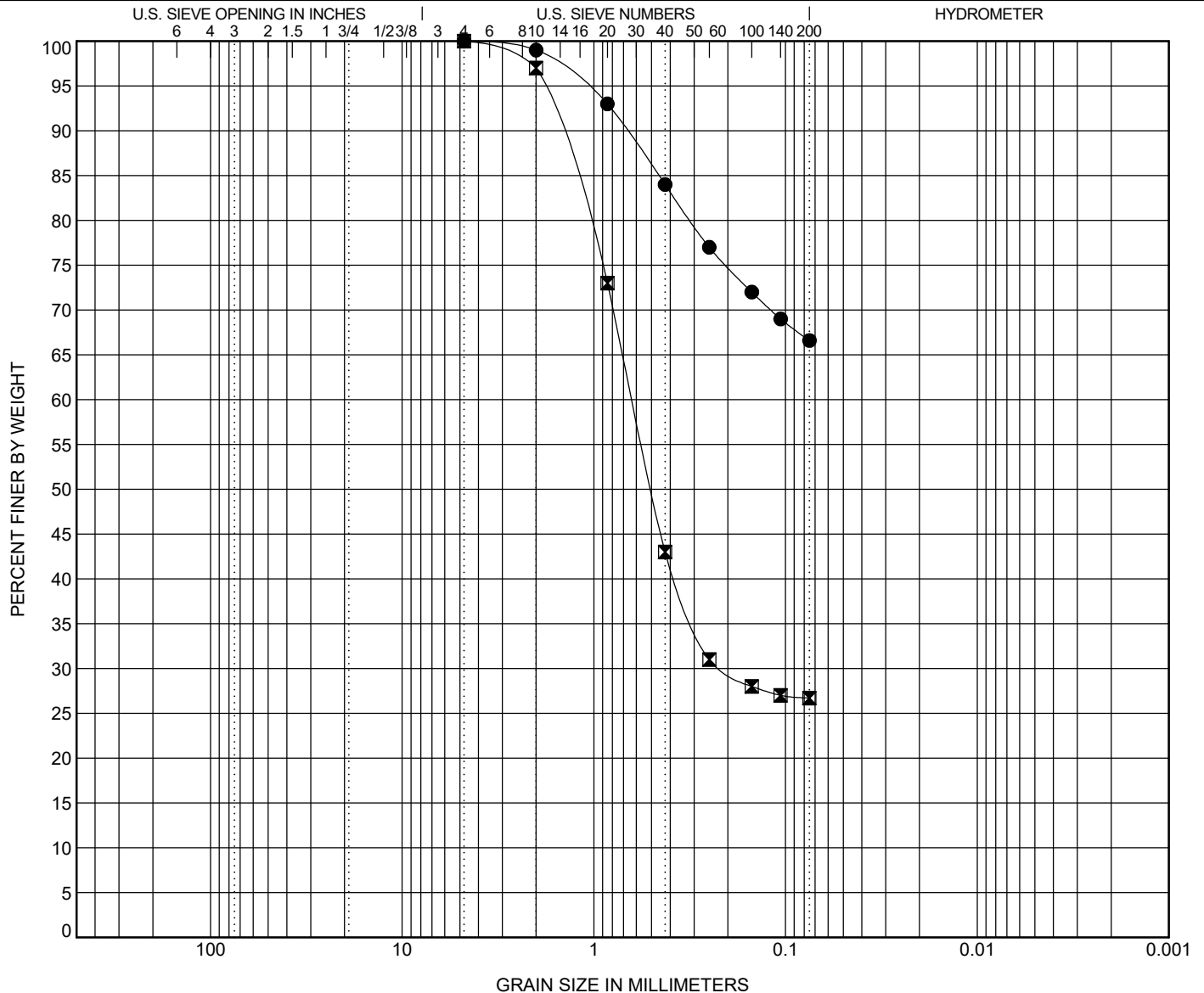


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

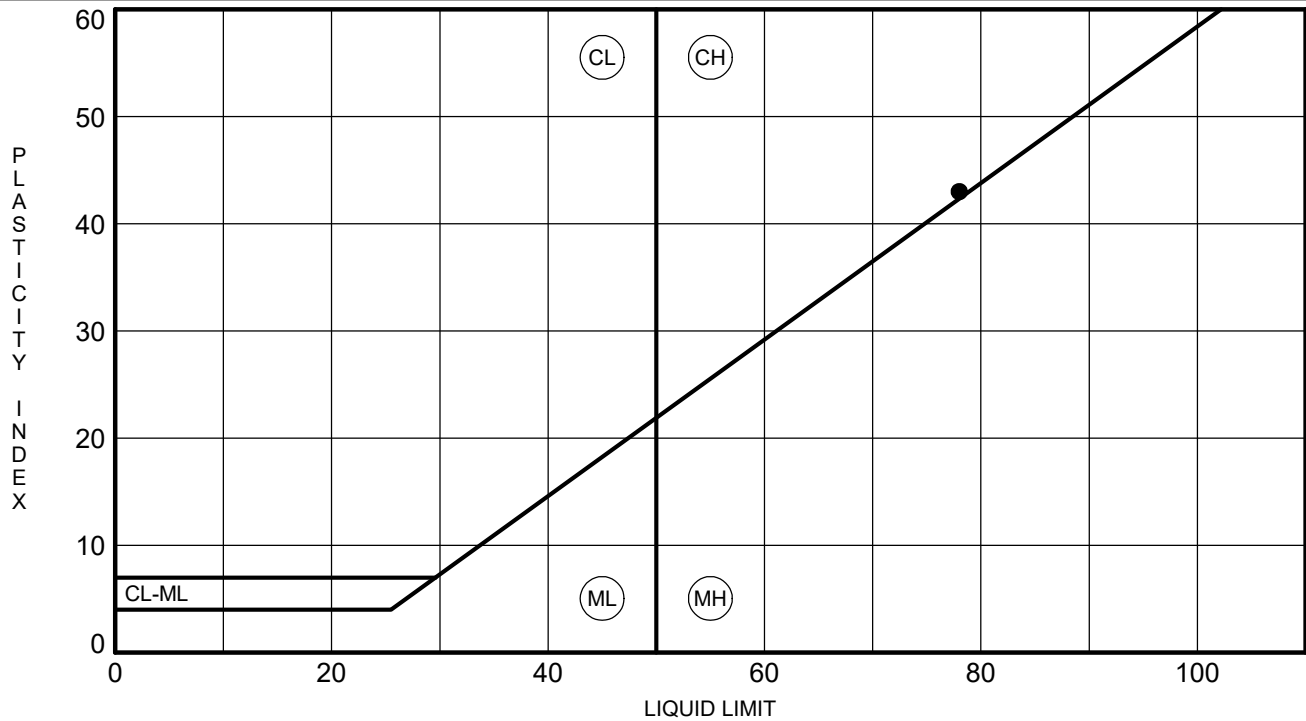
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-020	4.0	SANDY FAT CLAY(CH)					61	30	31		
☒ G-020	23.5	SILTY SAND(SM)					32	26	6		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-020	4.0	4.75				0.0	33.4	66.6			
☒ G-020	23.5	4.75	0.629	0.211		0.0	73.3	26.7			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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PROJECT COUNTY Richland

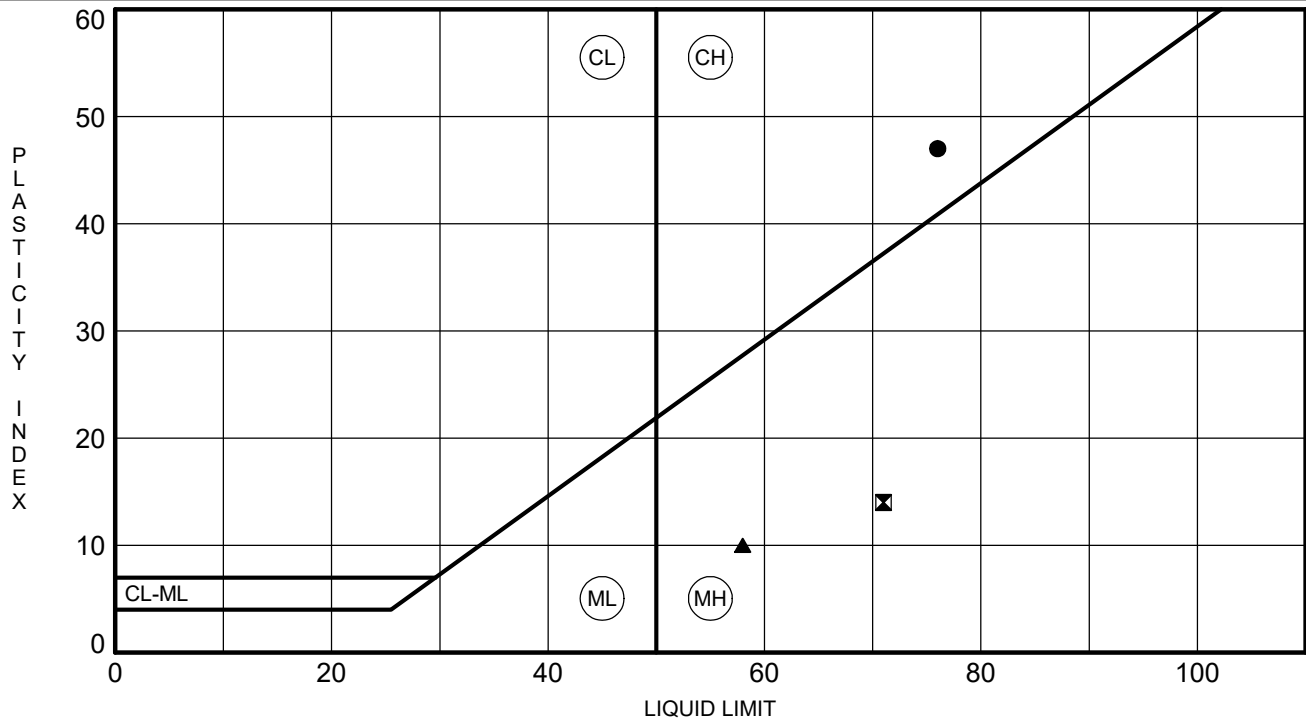
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ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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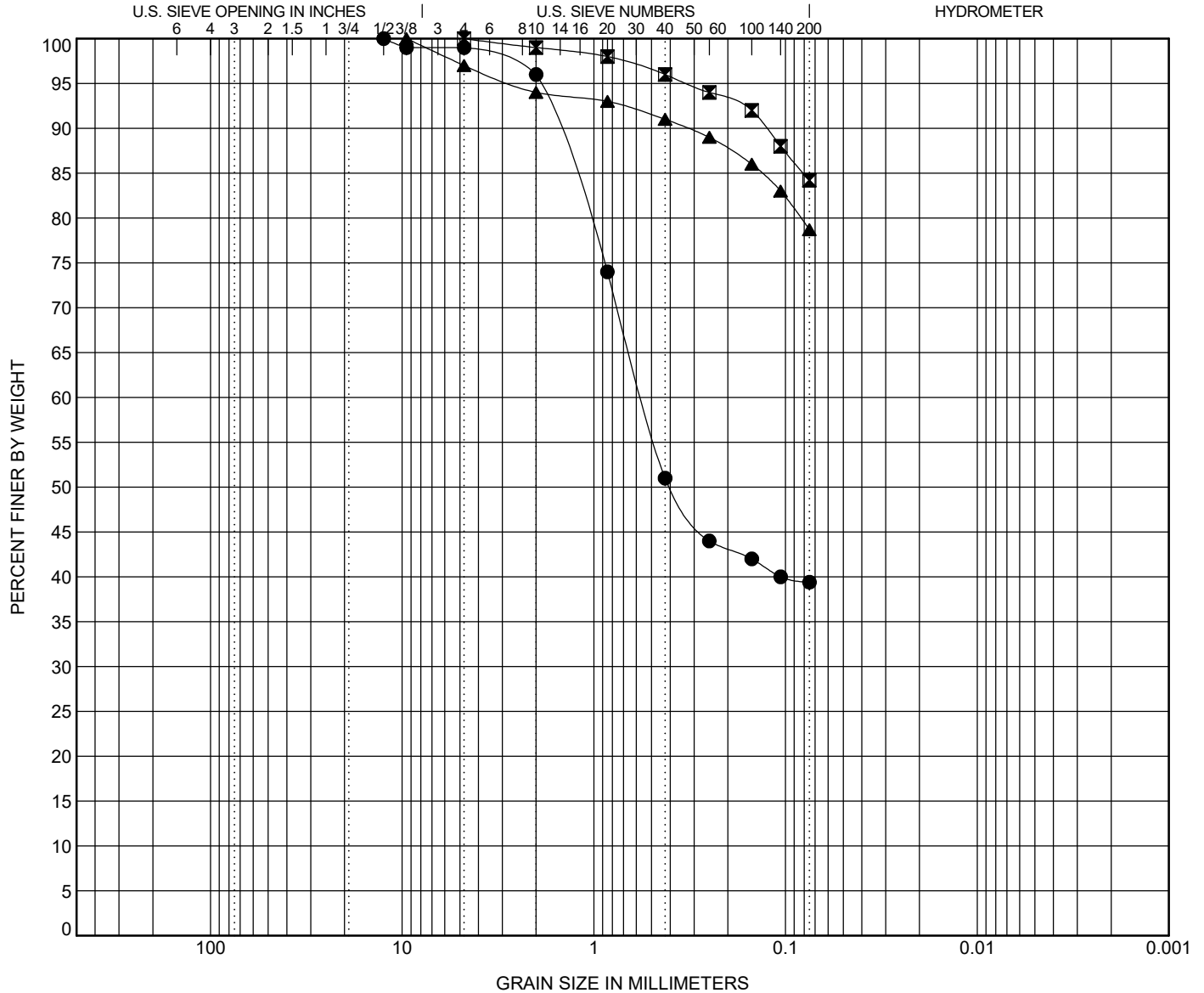


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

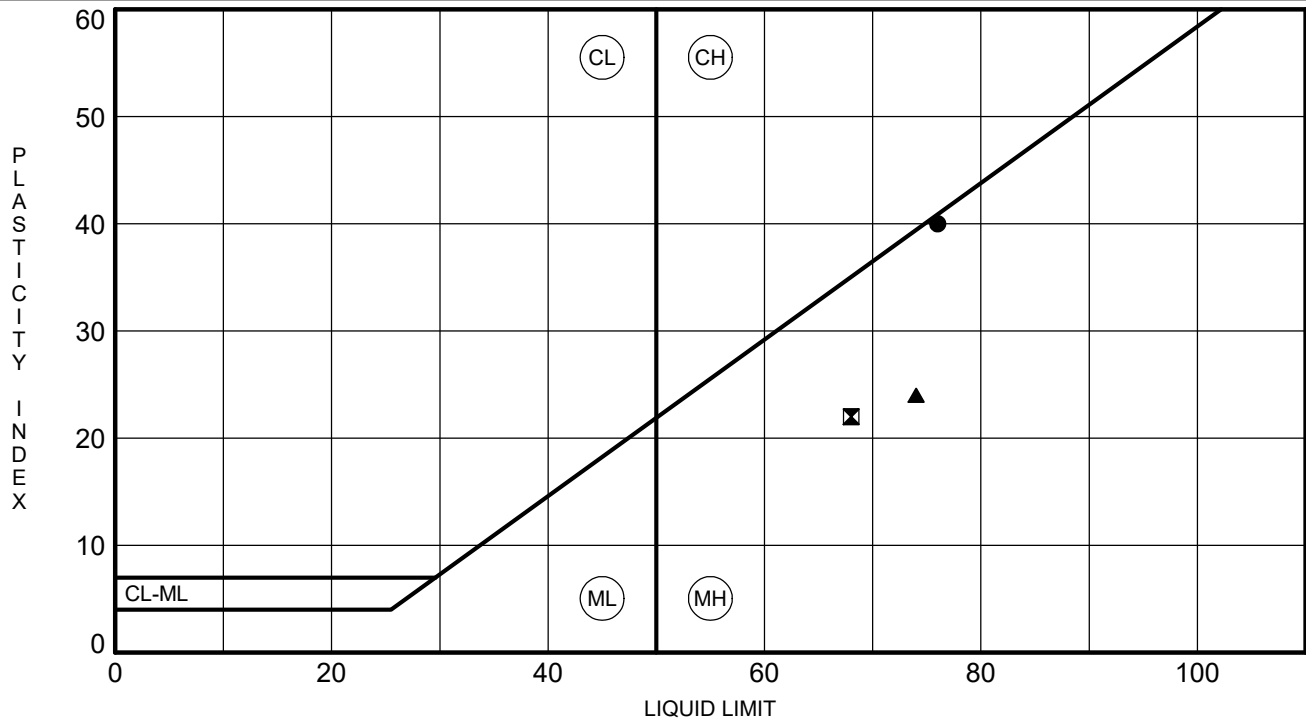
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-023	6.0	CLAYEY SAND(SC)					76	29	47		
☒ G-023	23.5	ELASTIC SILT with SAND(MH)					71	57	14		
▲ G-023	33.5	ELASTIC SILT with SAND(MH)					58	48	10		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-023	6.0	12.5	0.557			1.0	59.6	39.4			
☒ G-023	23.5	4.75				0.0	15.8	84.2			
▲ G-023	33.5	9.5				3.0	18.3	78.7			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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PROJECT COUNTY Richland

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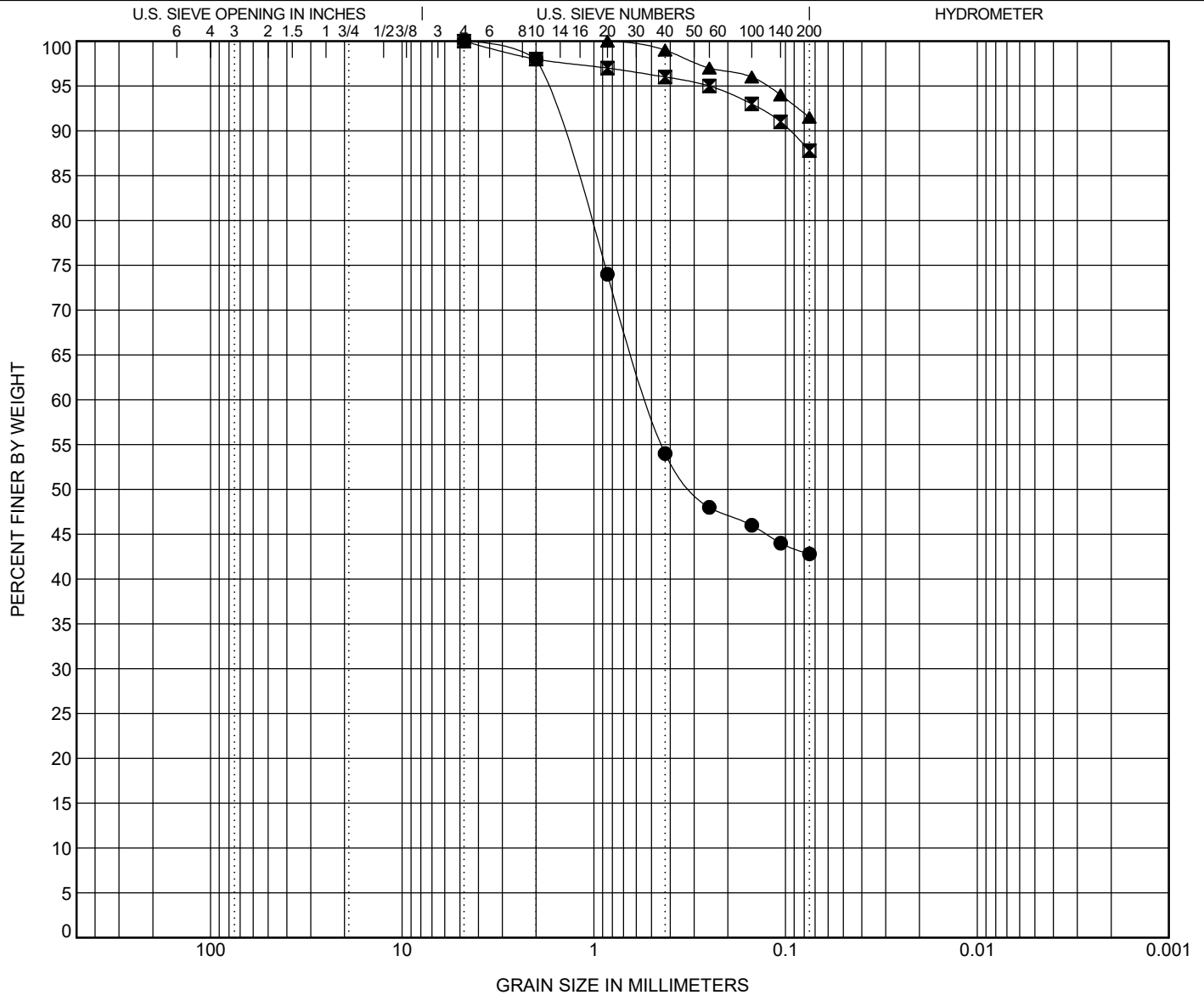


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-024	6.0	SILTY SAND(SM)					76	36	40		
☒ G-024	18.5	ELASTIC SILT(MH)					68	46	22		
▲ G-024	23.5	ELASTIC SILT(MH)					74	50	24		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-024	6.0	4.75	0.523			0.0	57.2	42.8			
☒ G-024	18.5	4.75				0.0	12.2	87.8			
▲ G-024	23.5	0.85				0.0	8.5	91.5			

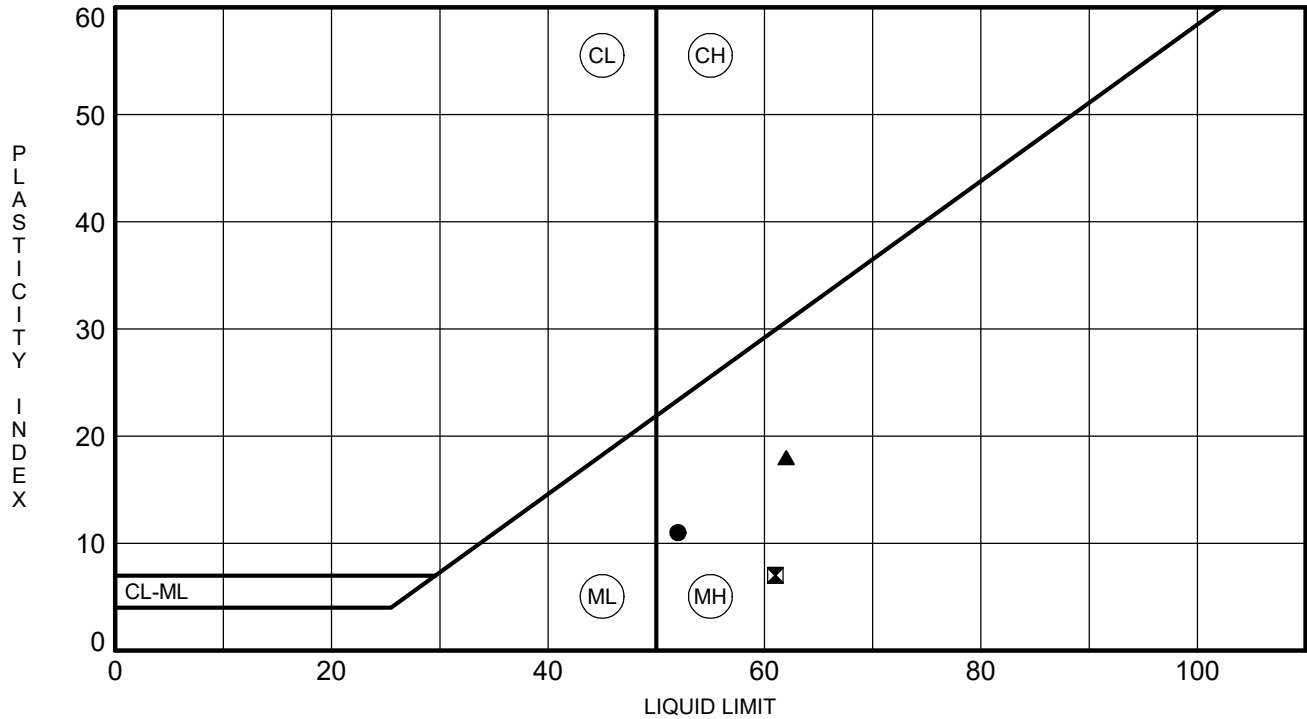


ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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PROJECT COUNTY Richland



ATTERBERG LIMITS 20-81_CCR2 ICE_BH_MERGED.GPJ SCDOT DATA TEMPLATE 01_30_2015.GDT 4/21/22

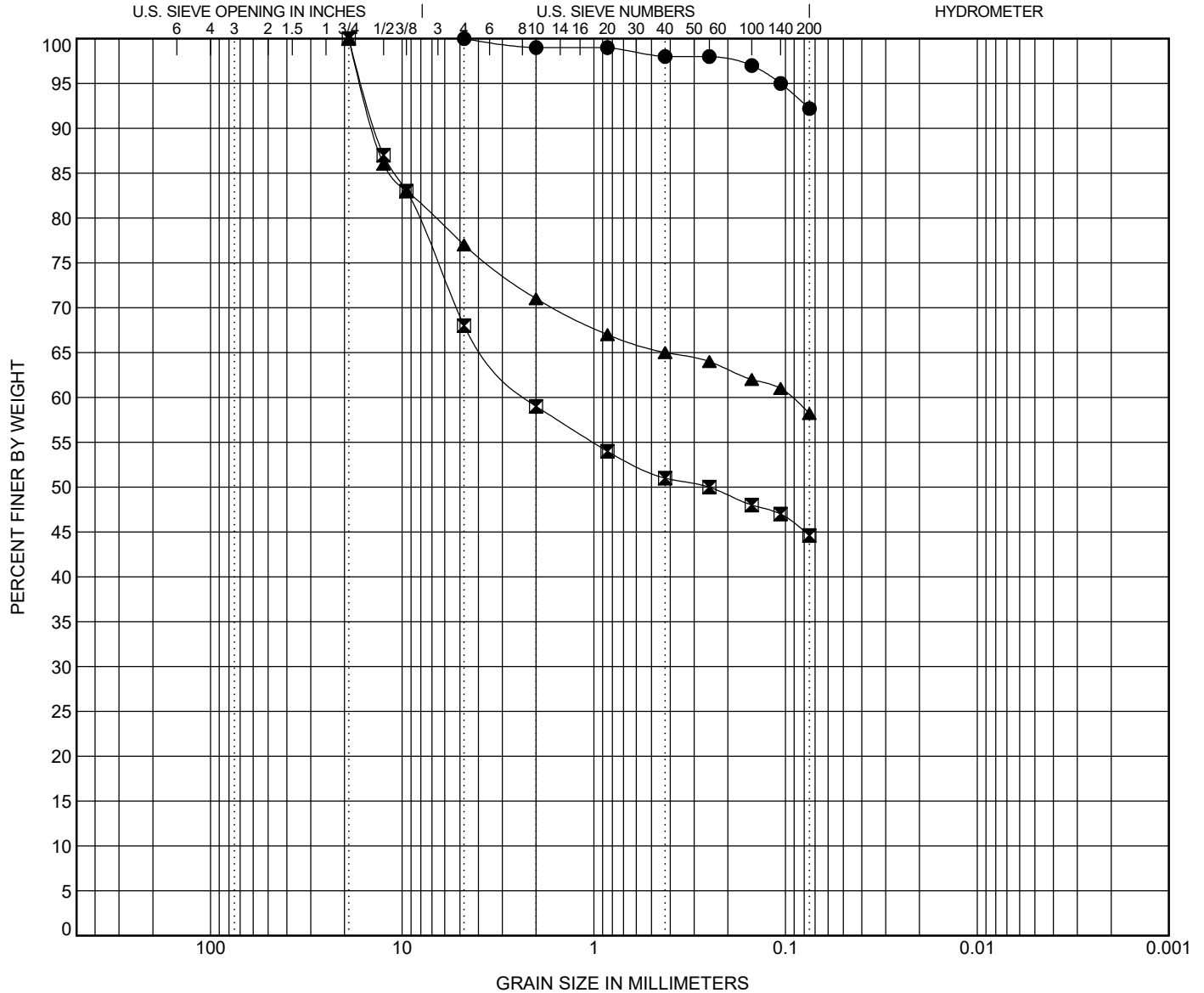


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

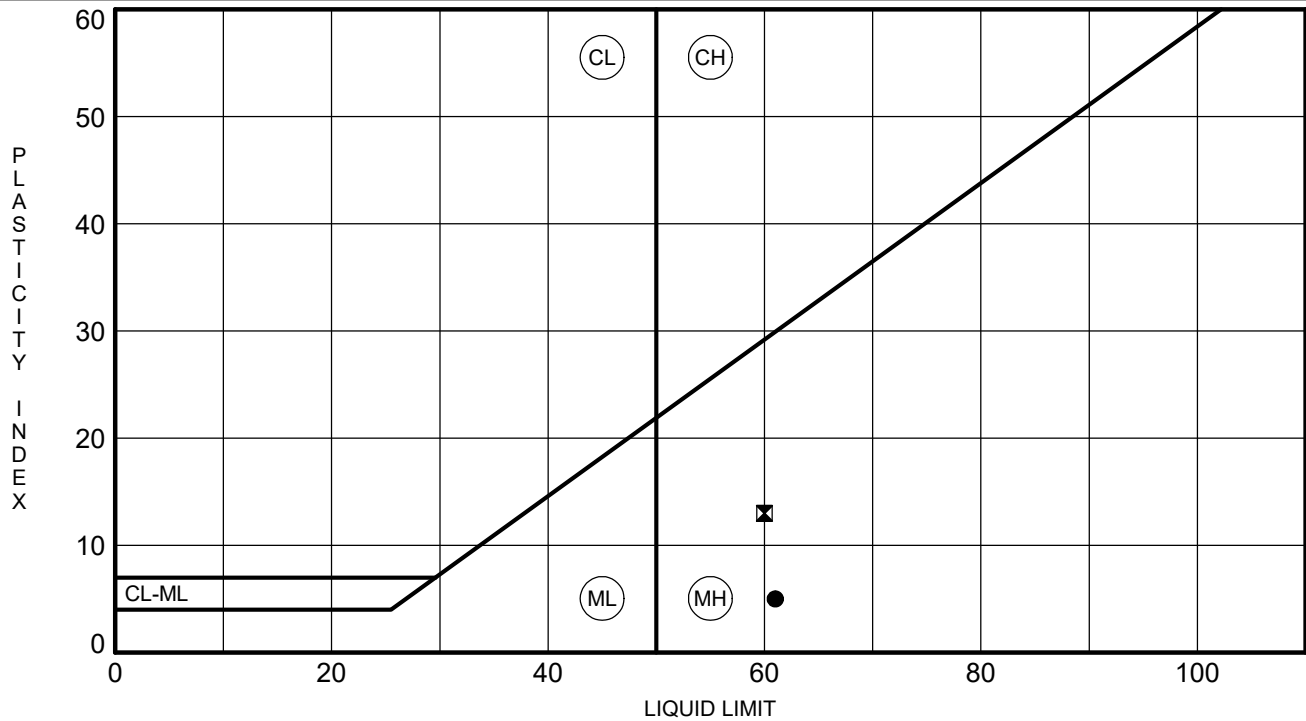
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-025	6.0	ELASTIC SILT(MH)					52	41	11		
☒ G-025	13.5	SILTY GRAVEL with SAND(GM)					61	54	7		
▲ G-025	28.5	GRAVELLY ELASTIC SILT with SAND(MH)					62	44	18		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-025	6.0	4.75				0.0	7.8	92.2			
☒ G-025	13.5	19	2.202			32.0	23.4	44.6			
▲ G-025	28.5	19	0.094			23.0	18.8	58.2			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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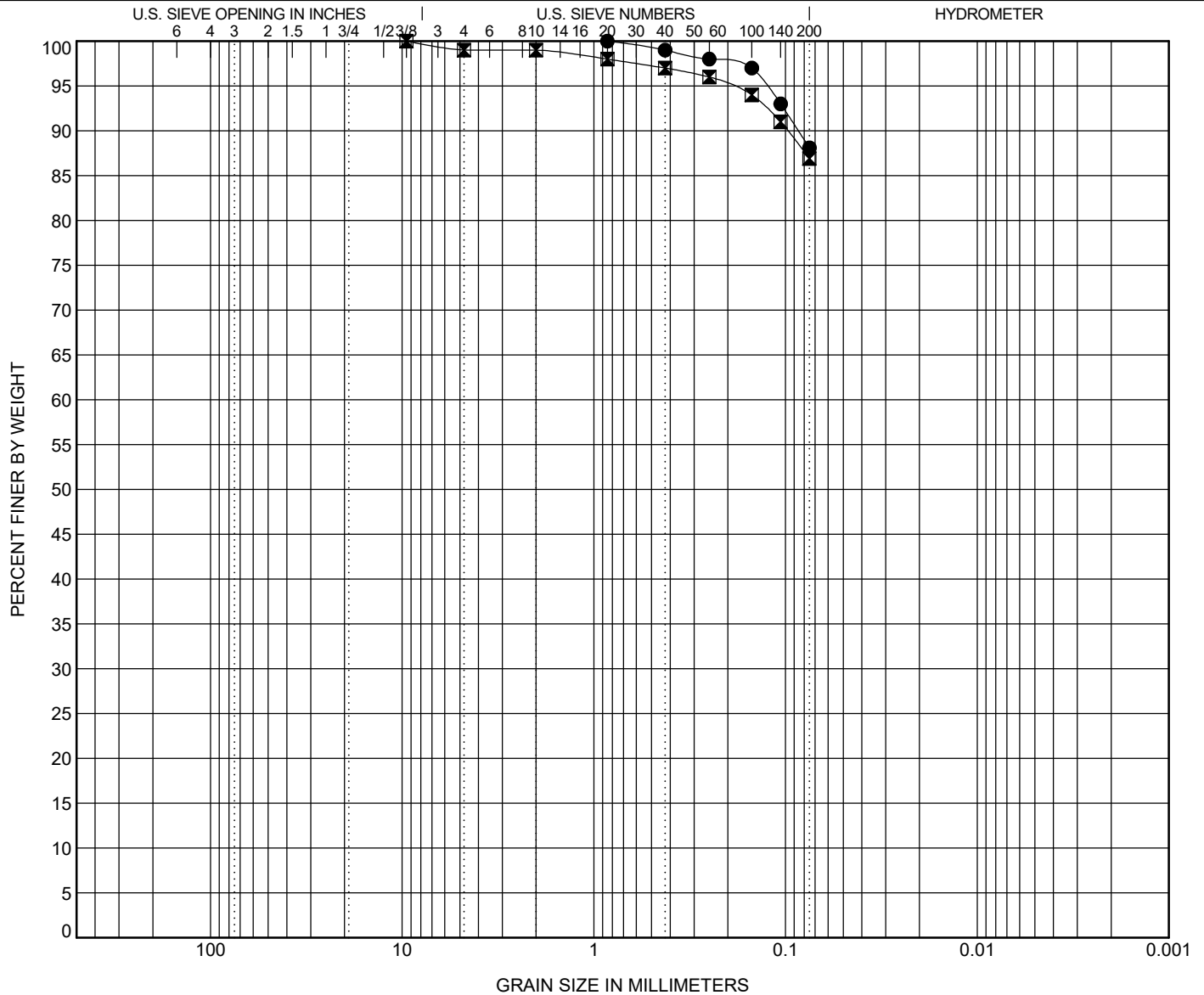


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
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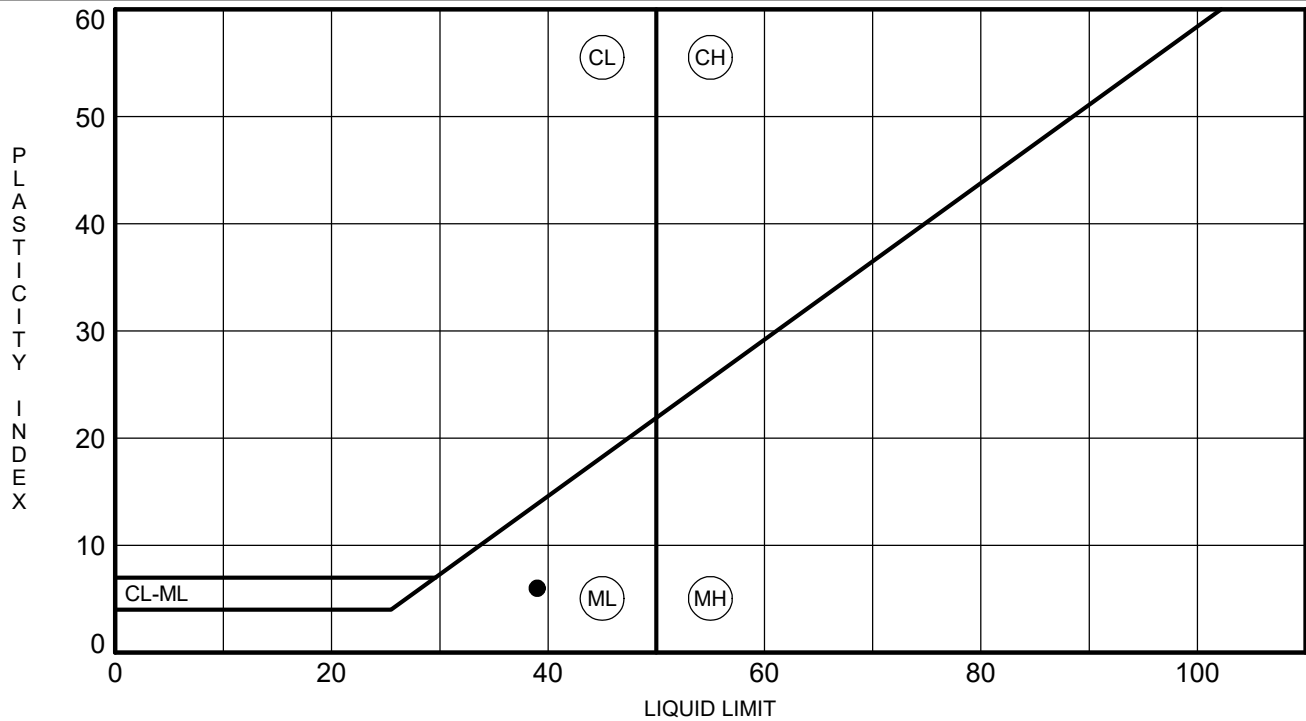
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-026	13.5	ELASTIC SILT(MH)					61	56	5		
☒ G-026	23.5	ELASTIC SILT(MH)					60	47	13		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-026	13.5	0.85				0.0	11.9	88.1			
☒ G-026	23.5	9.5				1.0	12.1	86.9			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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PROJECT COUNTY Richland

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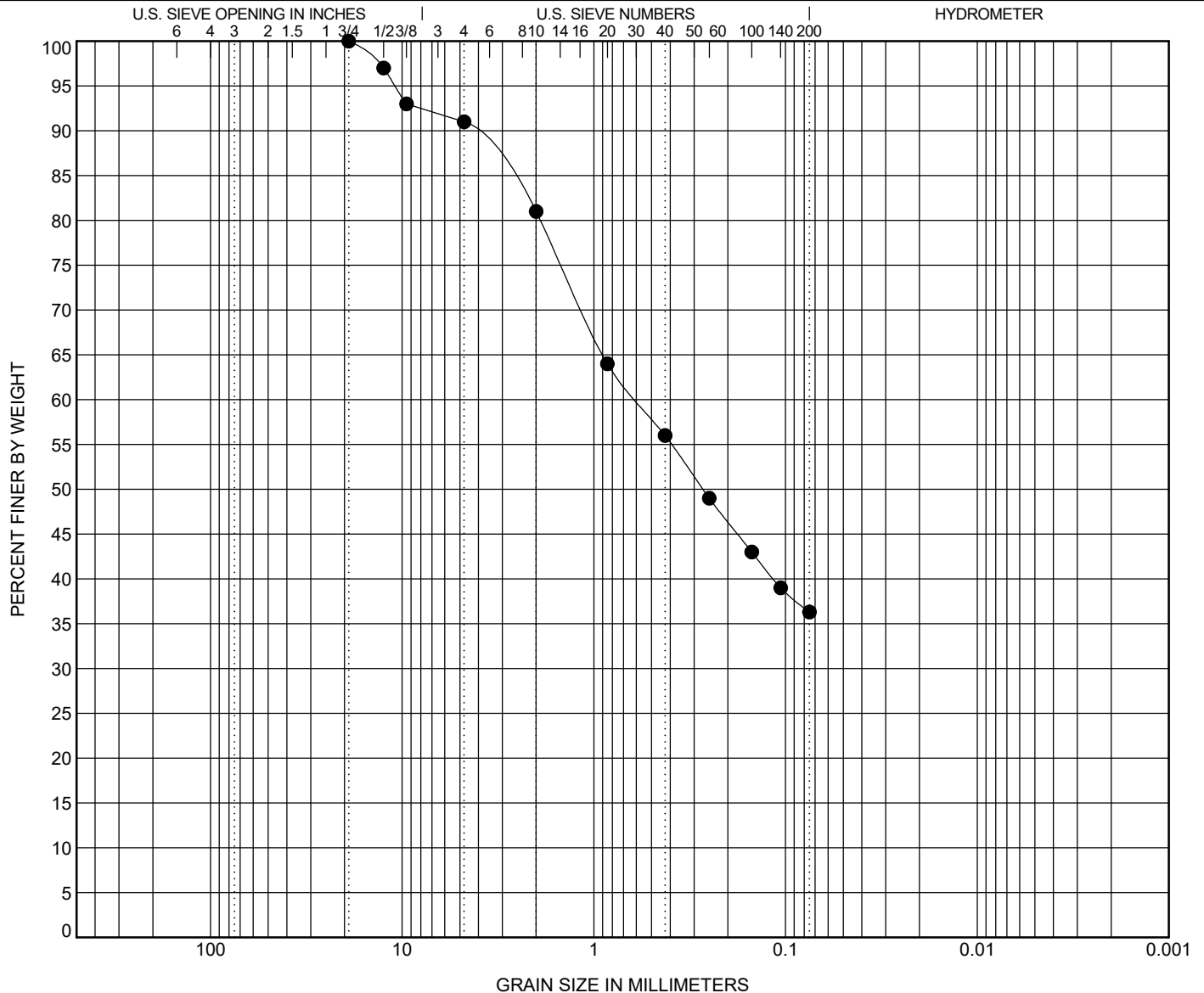


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

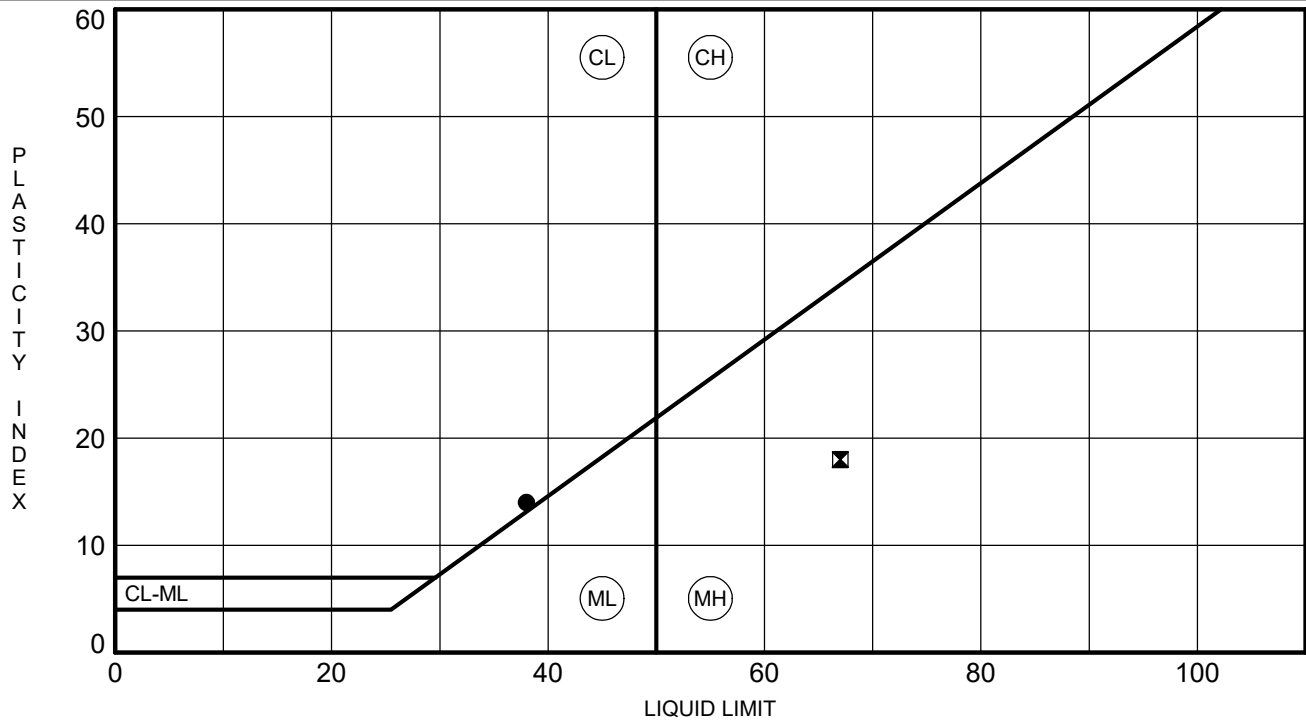
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-027	10.0	SILTY SAND(SM)					39	33	6		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-027	10.0	19	0.601			9.0	54.7	36.3			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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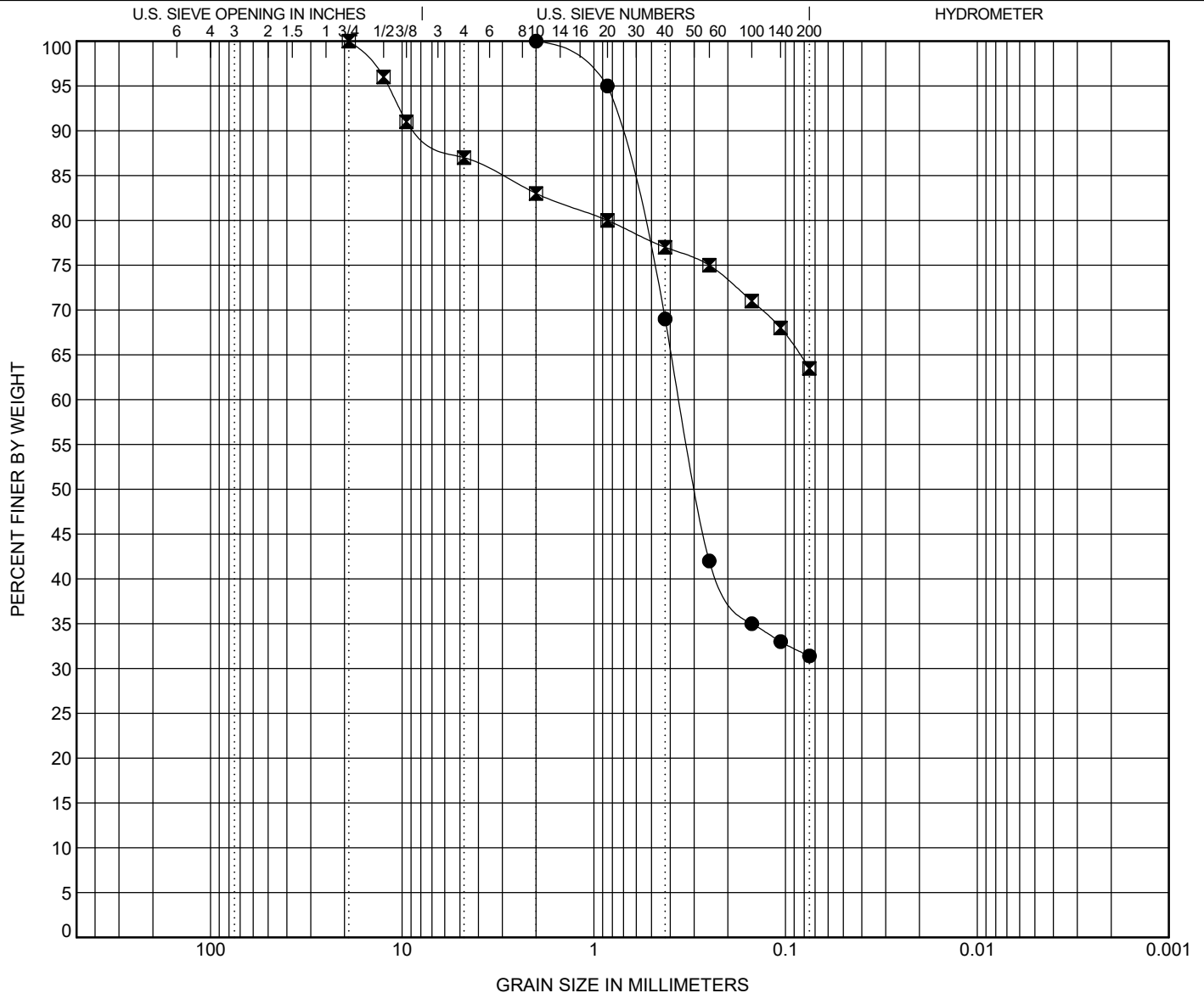


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

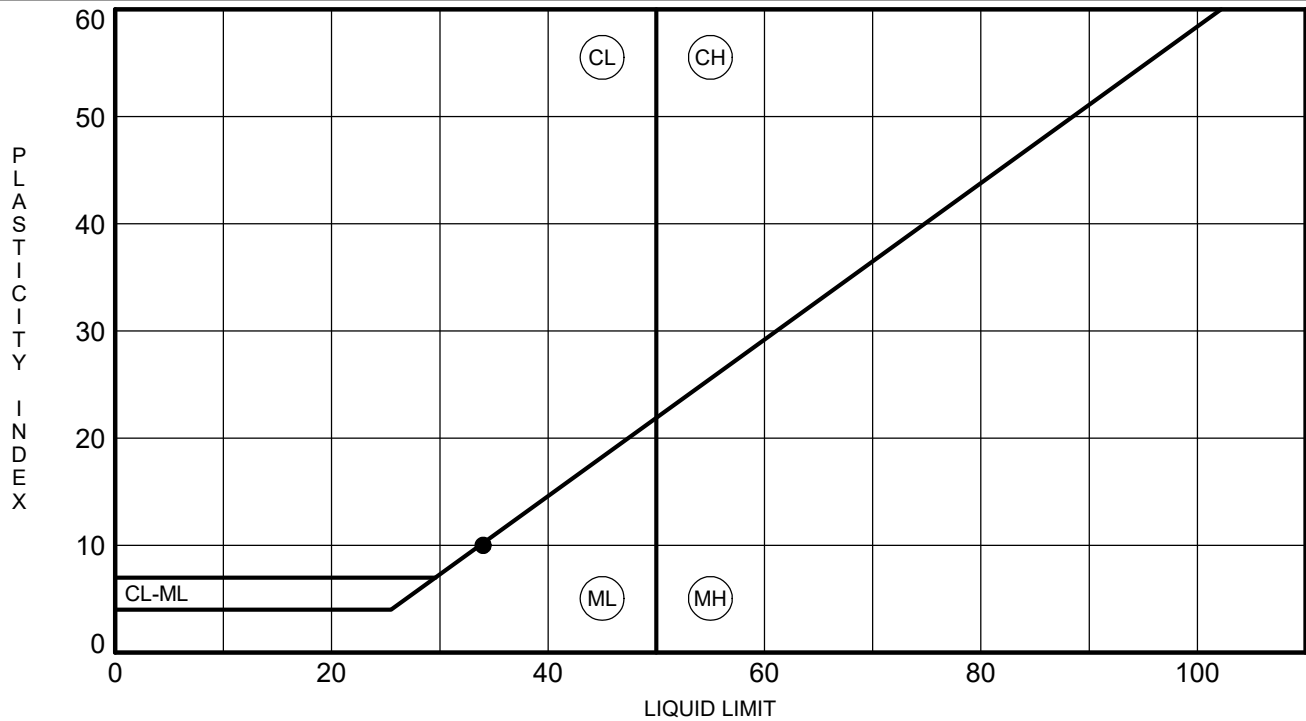
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-034	4.0	CLAYEY SAND(SC)					38	24	14		
☒ G-034	13.8	SANDY ELASTIC SILT(MH)					67	49	18		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-034	4.0	2	0.356			0.0	68.6	31.4			
☒ G-034	13.8	19				13.0	23.5	63.5			

ATTERBERG LIMITS' RESULTS

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PROJECT COUNTY Richland

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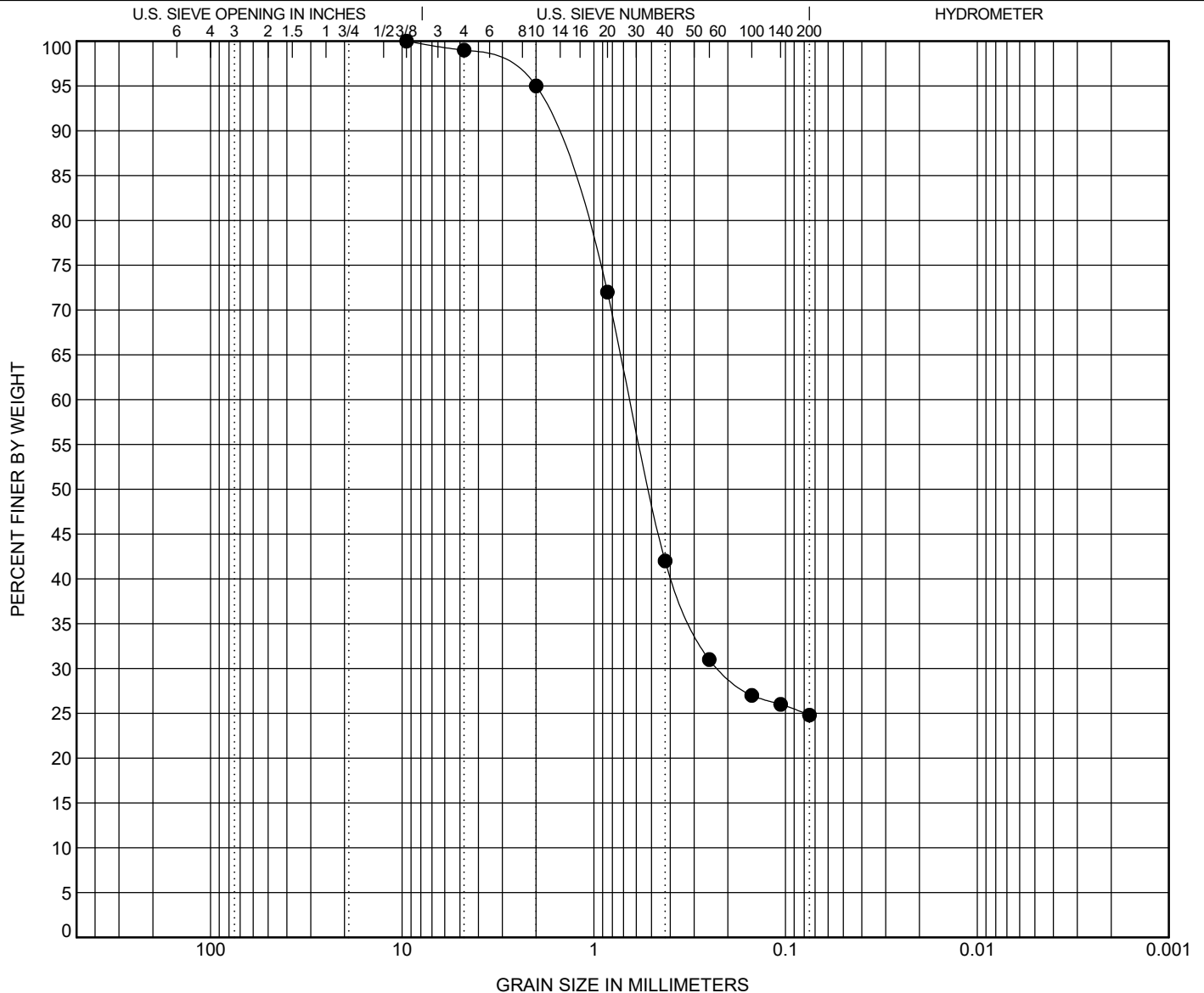


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
G-035	8.0	SILTY SAND(SM)					34	24	10		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
G-035	8.0	9.5	0.644	0.22		1.0	74.2	24.8			

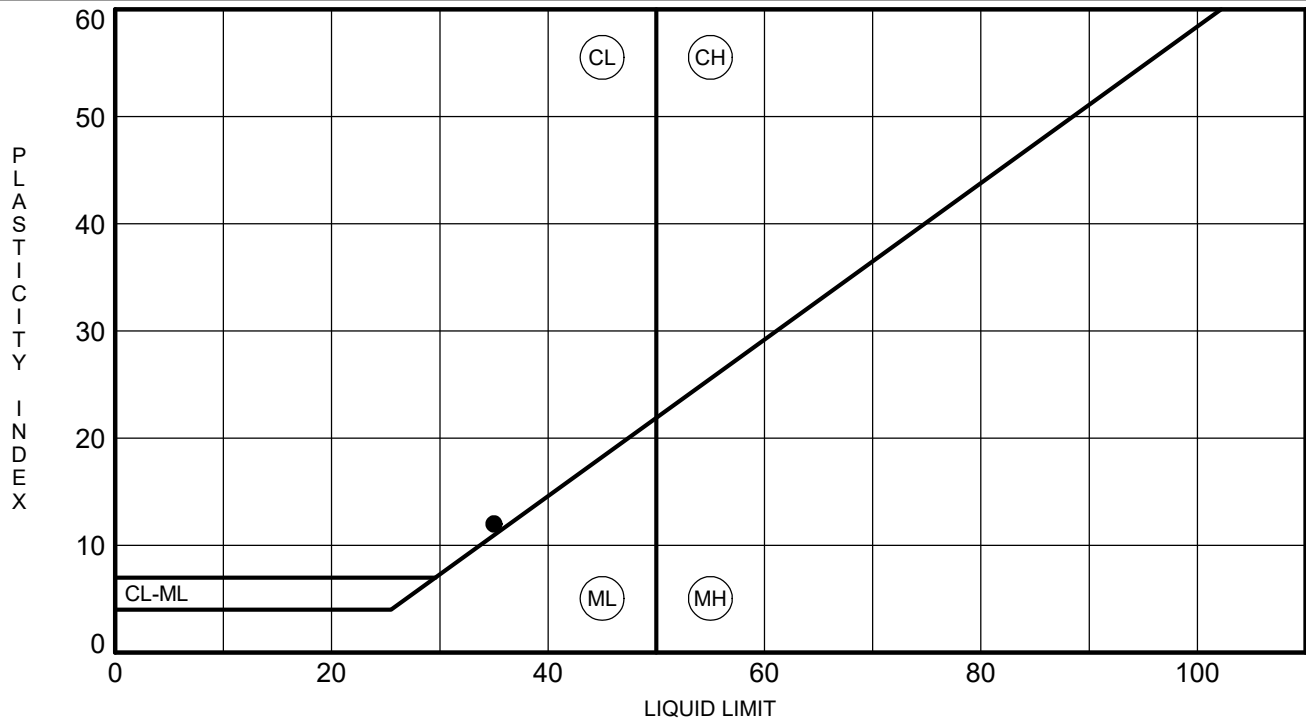
GRAIN SIZE 20-81_CCR2 ICE BH MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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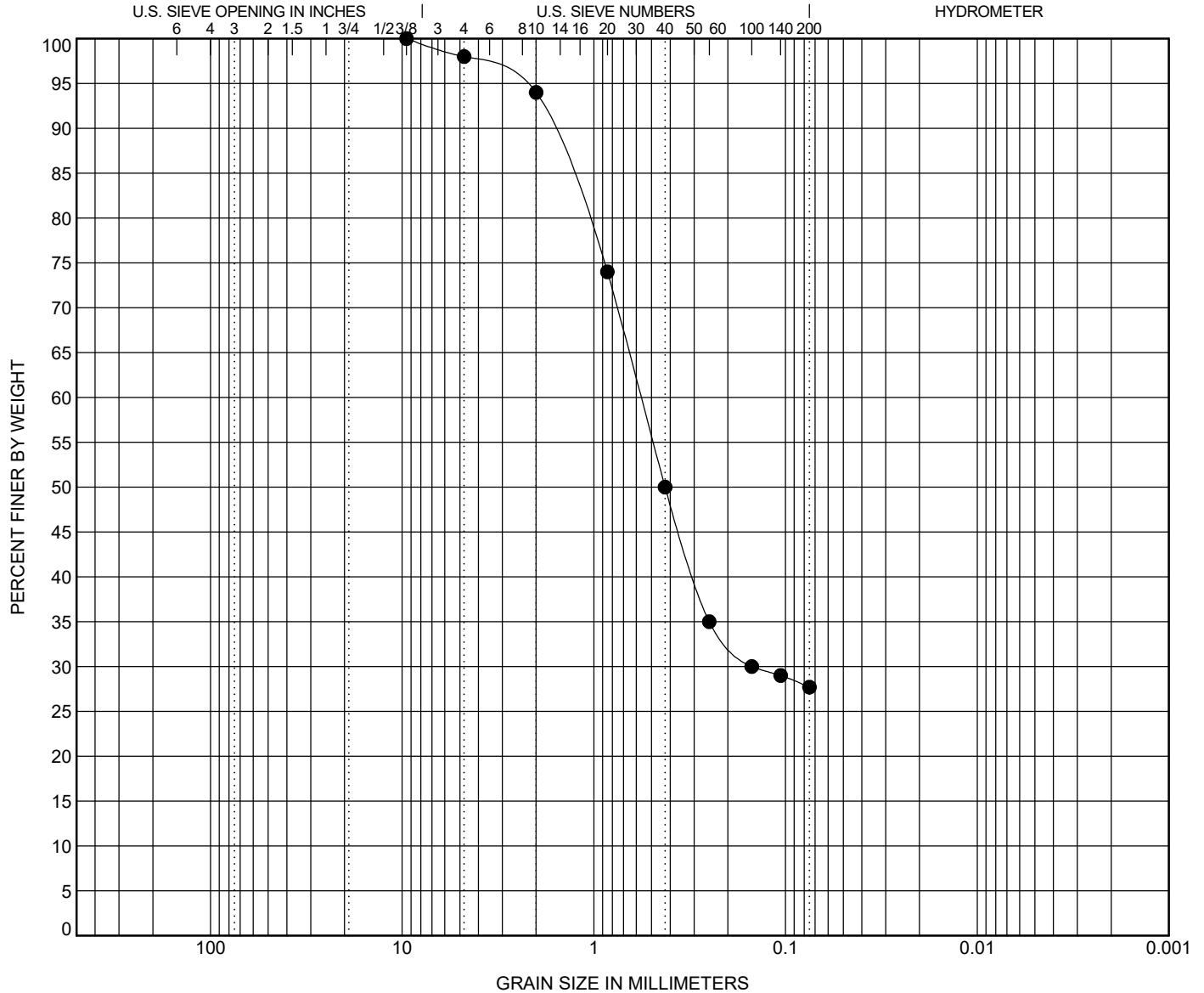


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

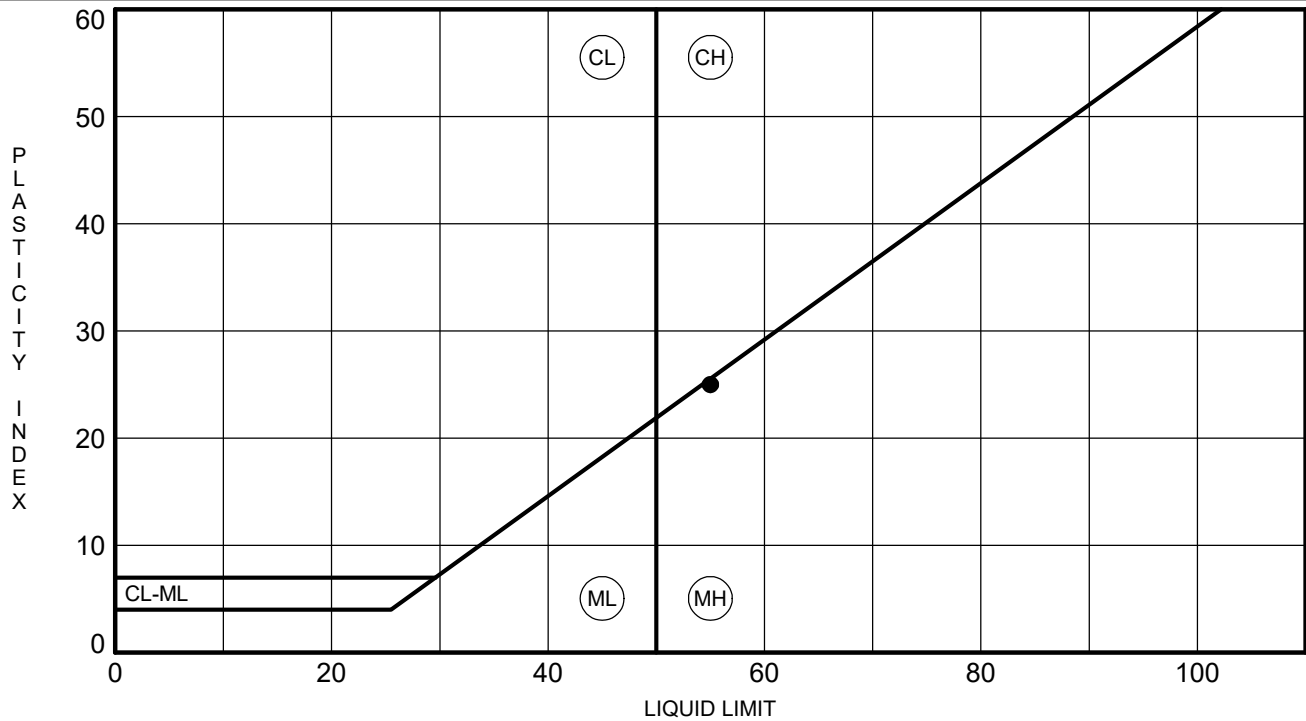
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-037	6.0	CLAYEY SAND(SC)					35	23	12		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-037	6.0	9.5	0.567	0.15		2.0	70.3	27.7			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

[illegible]

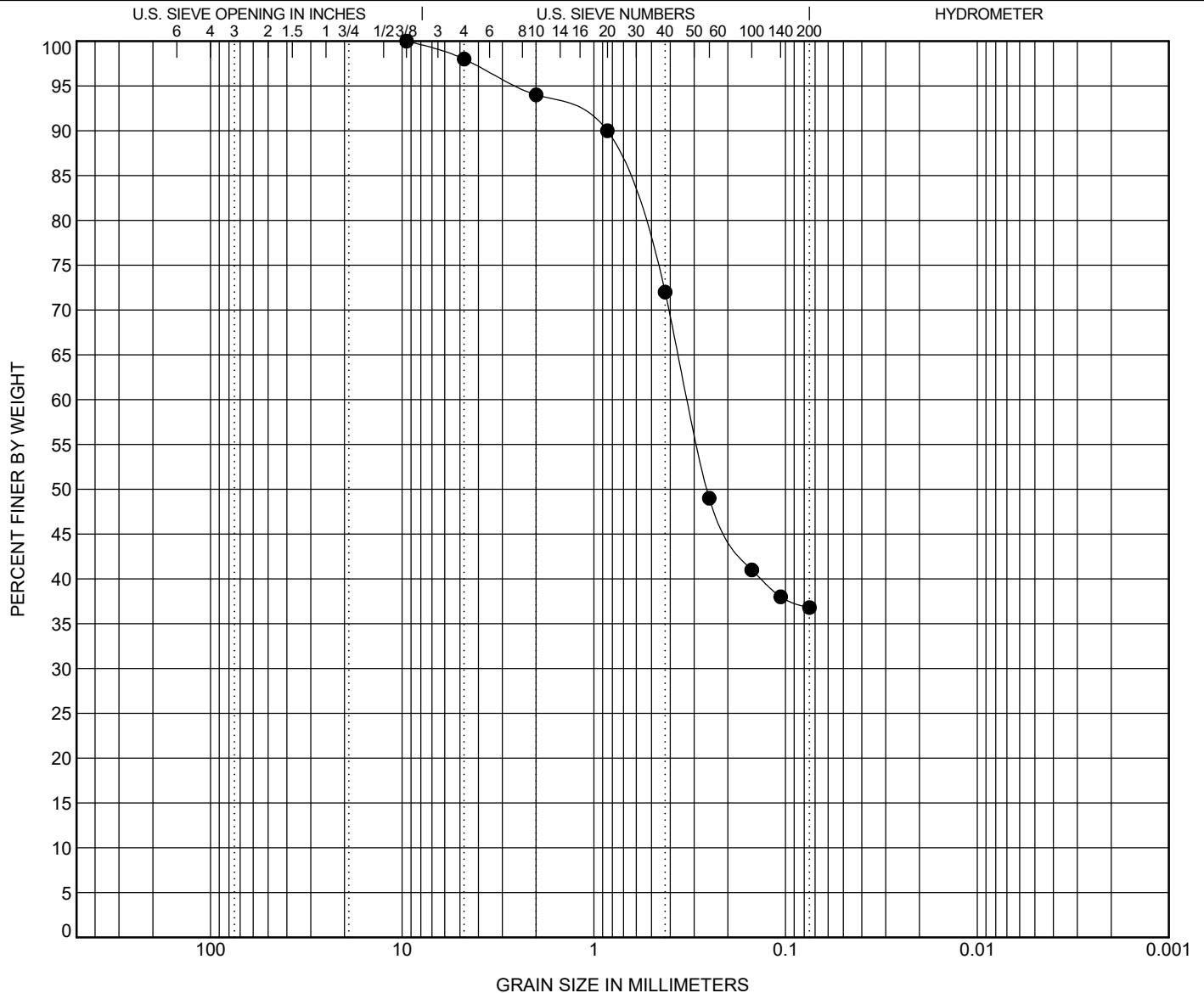


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-038	6.0	SILTY SAND(SM)					55	30	25		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-038	6.0	9.5	0.322			2.0	61.2	36.8			

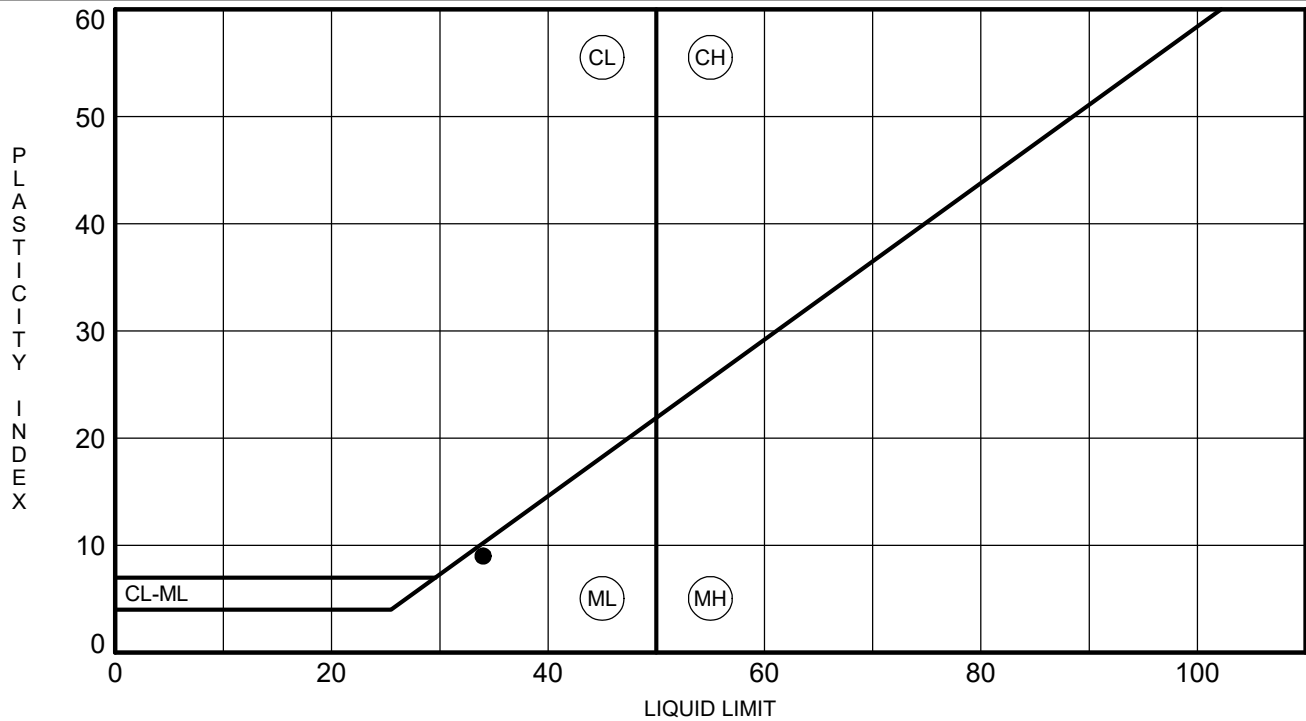
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ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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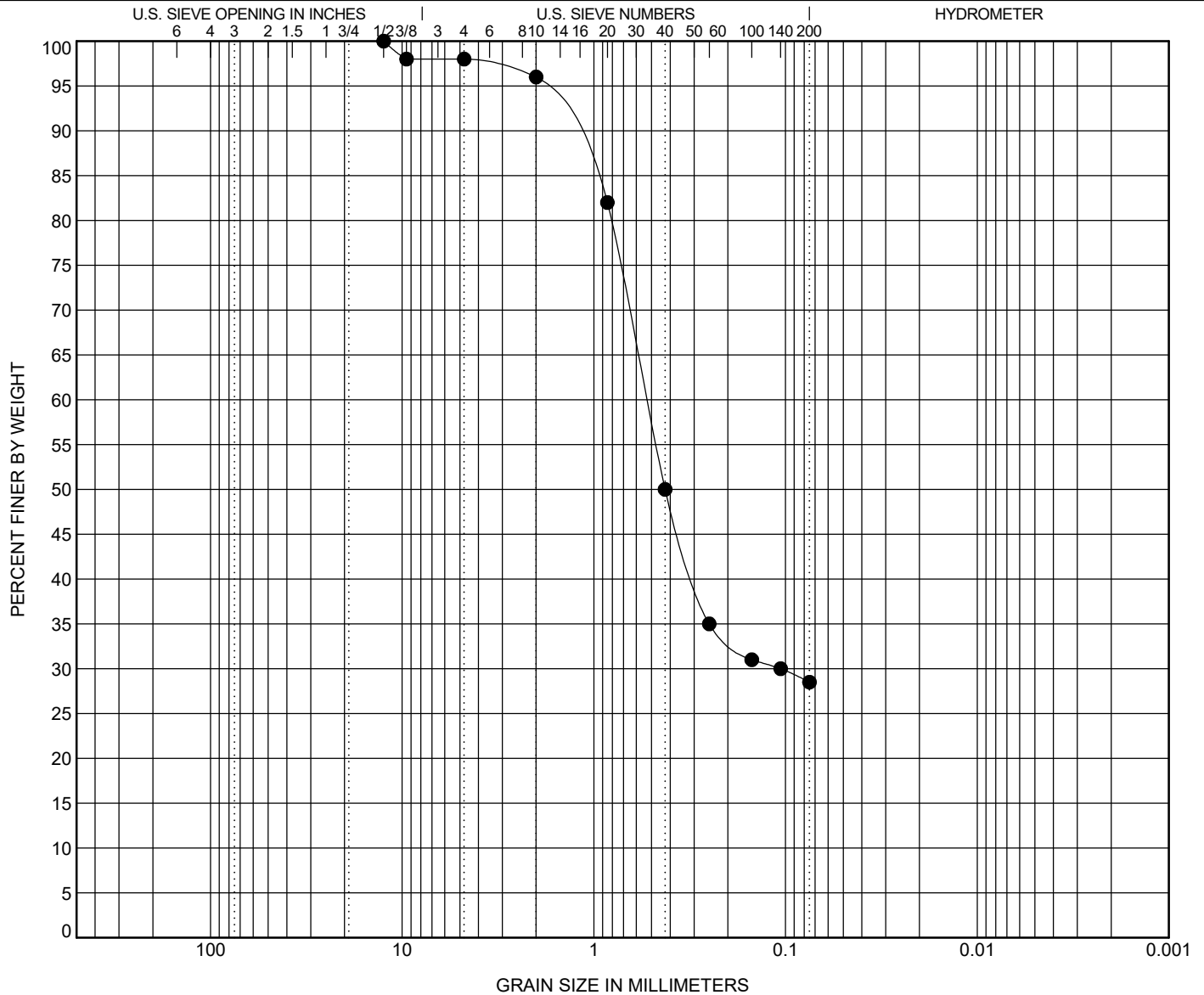


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

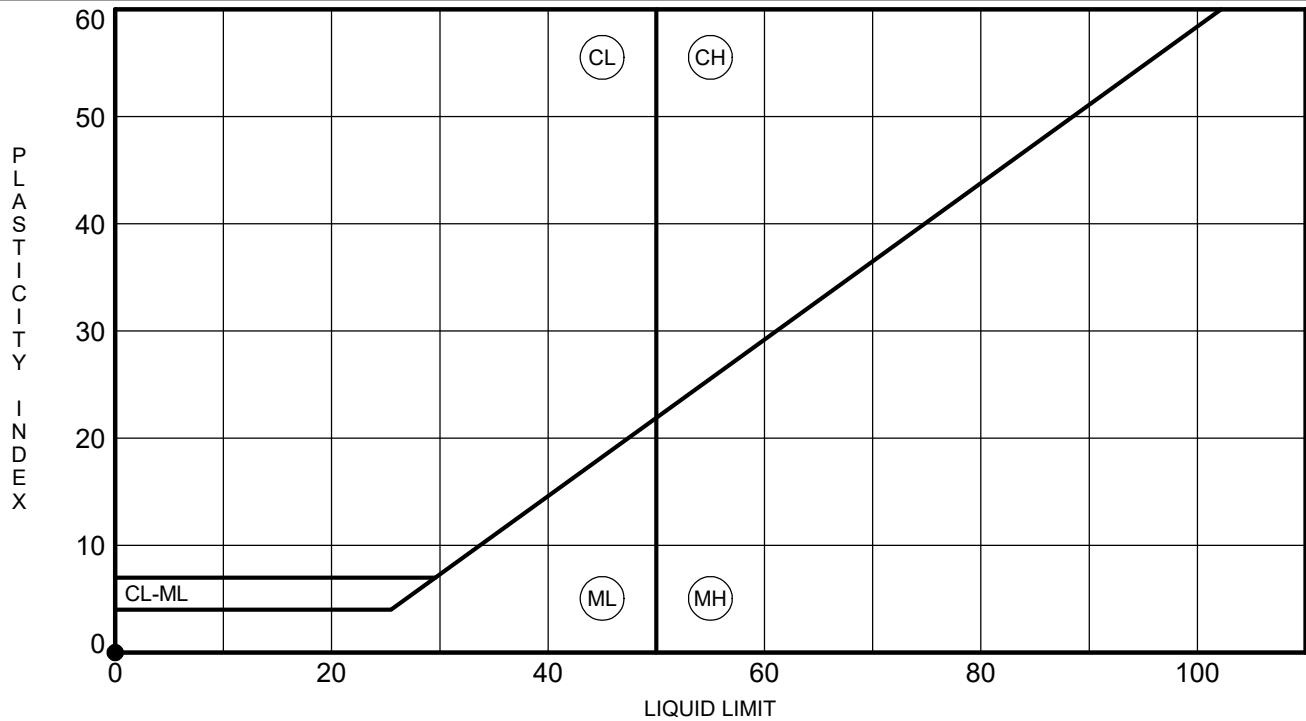
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-039	13.5	SILTY SAND(SM)					34	25	9		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-039	13.5	12.5	0.528	0.106		2.0	69.5	28.5			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

[illegible]

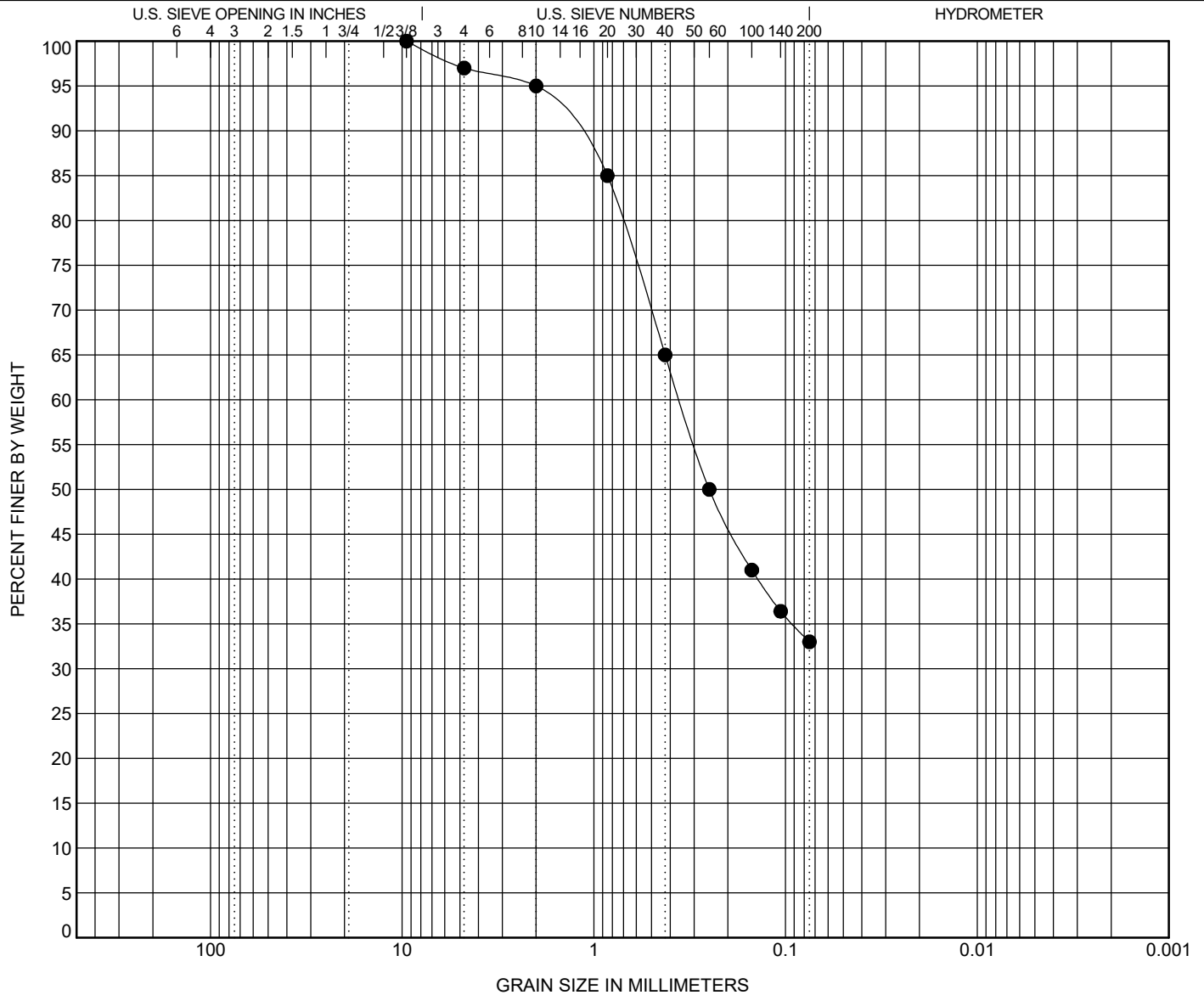


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-040	6.0	SILTY SAND(SM)					NP	NP	NP		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-040	6.0	9.5	0.356			3.0	64.0	33.0			

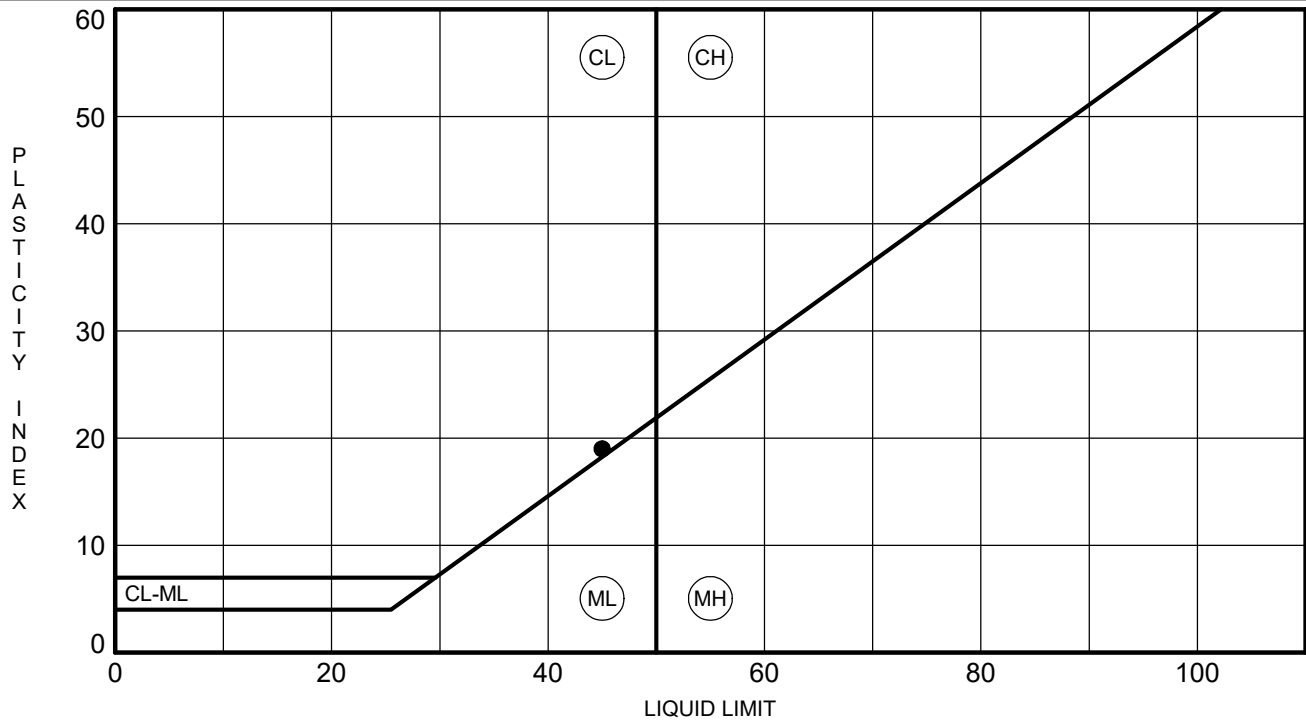
GRAIN SIZE 20-81_CCR2 ICE BH_MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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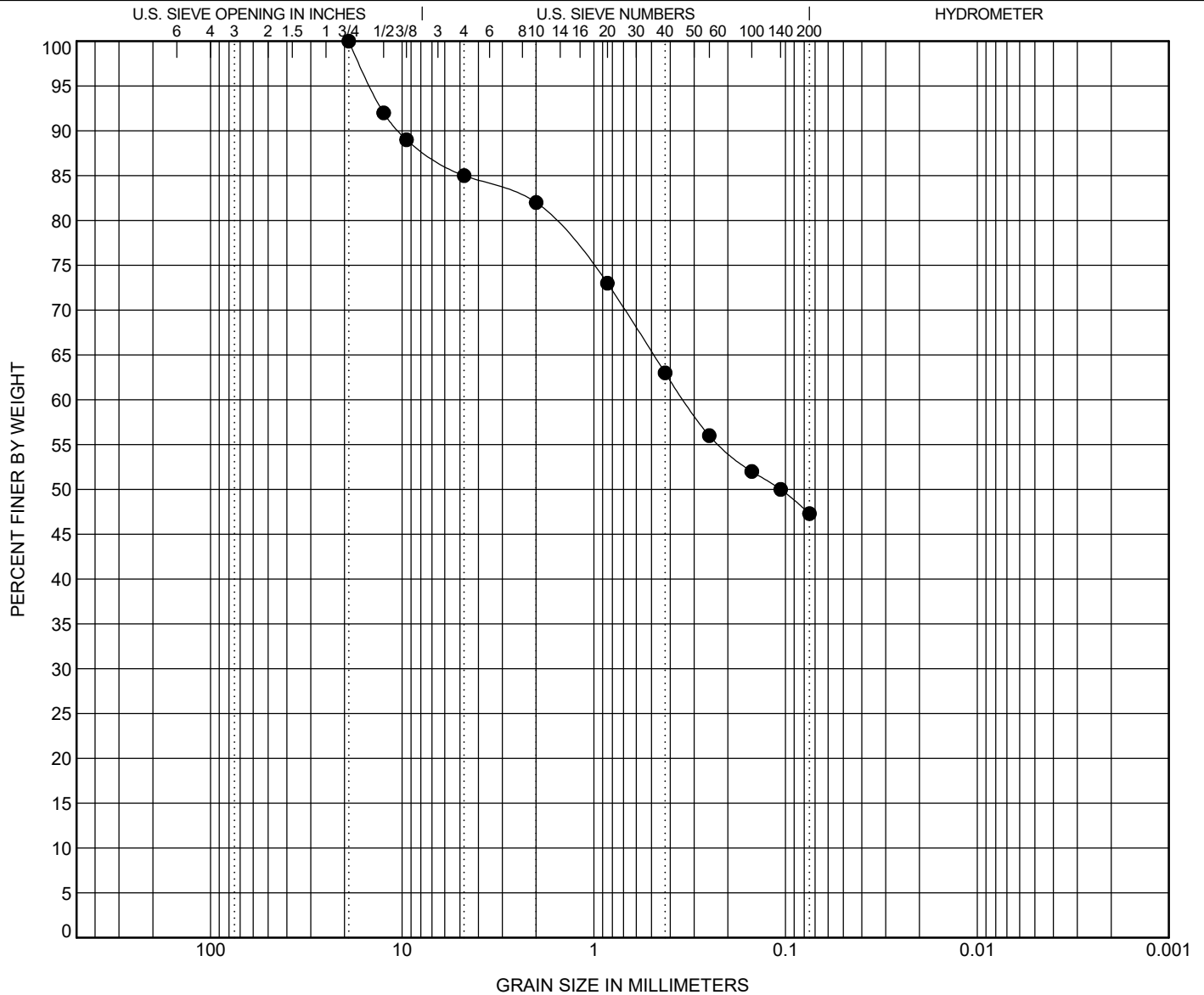


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

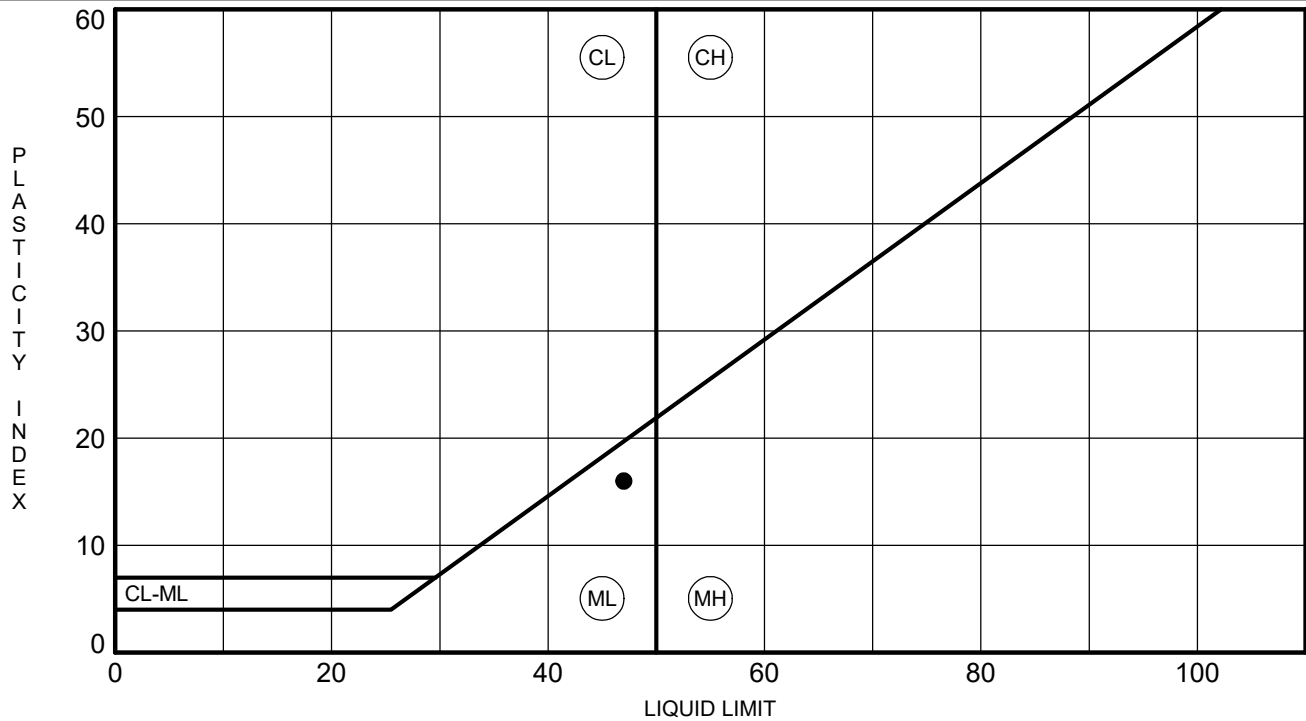
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-041	4.0	CLAYEY SAND with GRAVEL(SC)					45	26	19		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-041	4.0	19	0.339			15.0	37.7	47.3			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

[illegible]

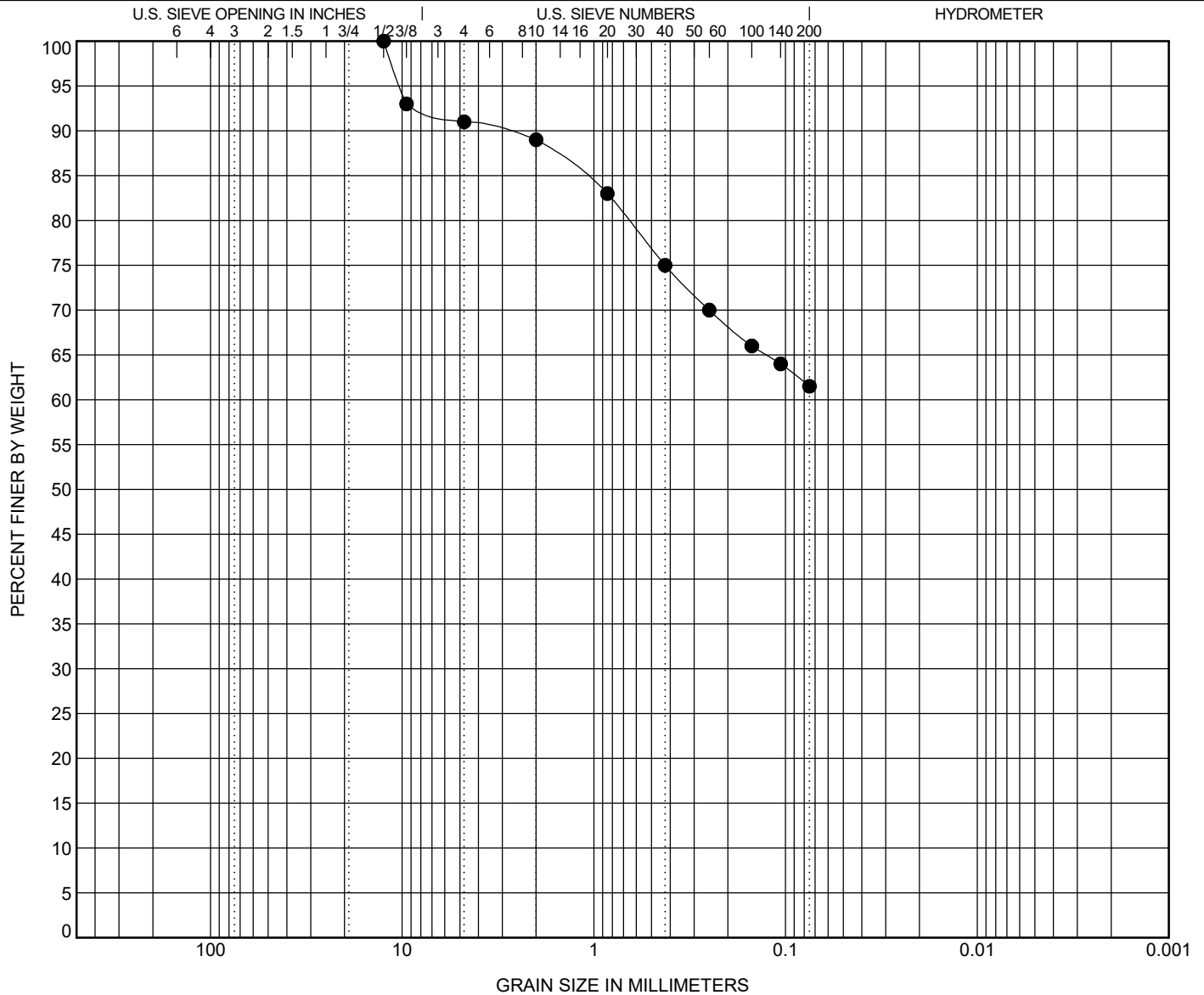


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-042	10.0	SANDY SILT(ML)					47	31	16		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-042	10.0	12.5				9.0	29.5	61.5			

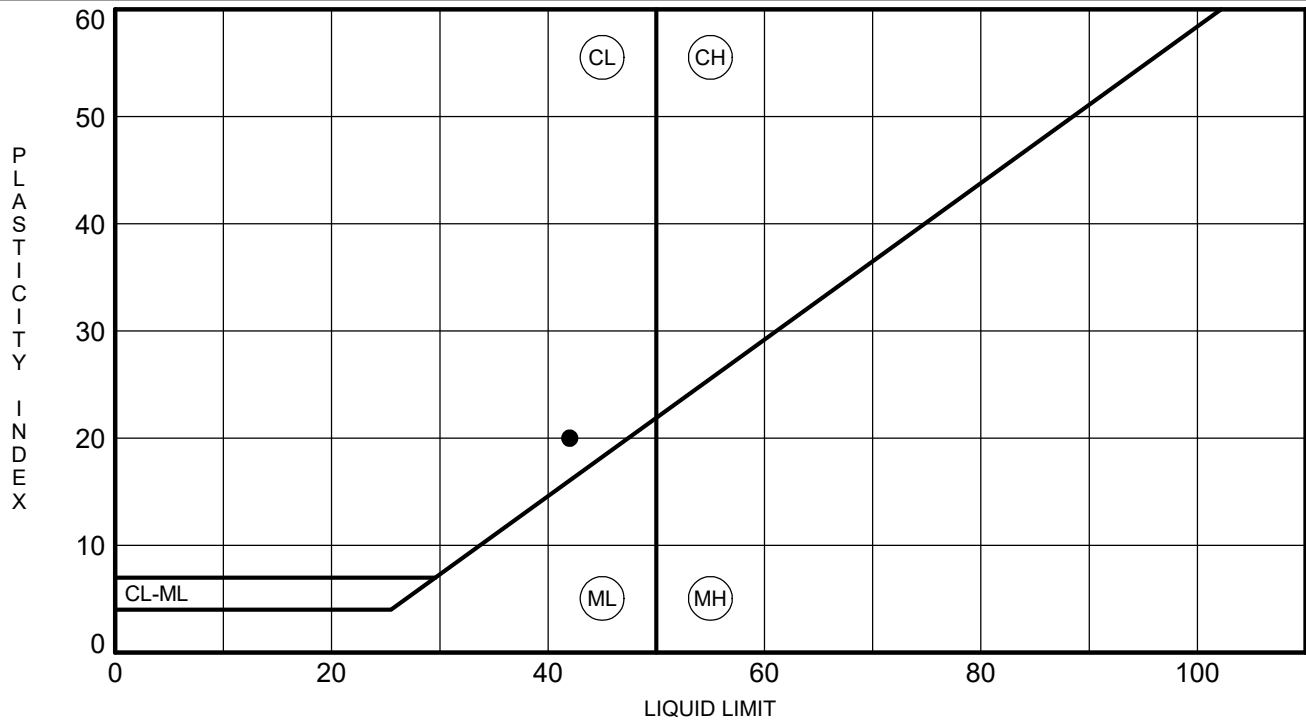
GRAIN SIZE 20-81_CCR2 ICE BH_MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

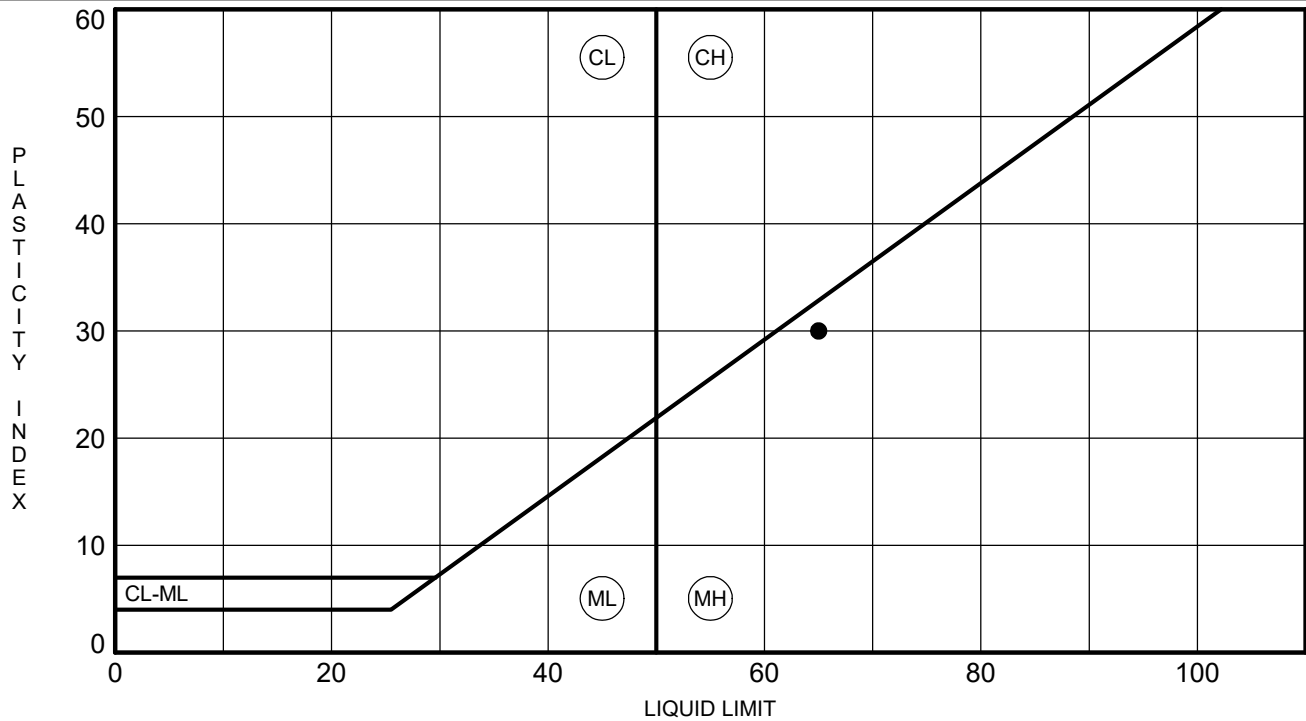
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ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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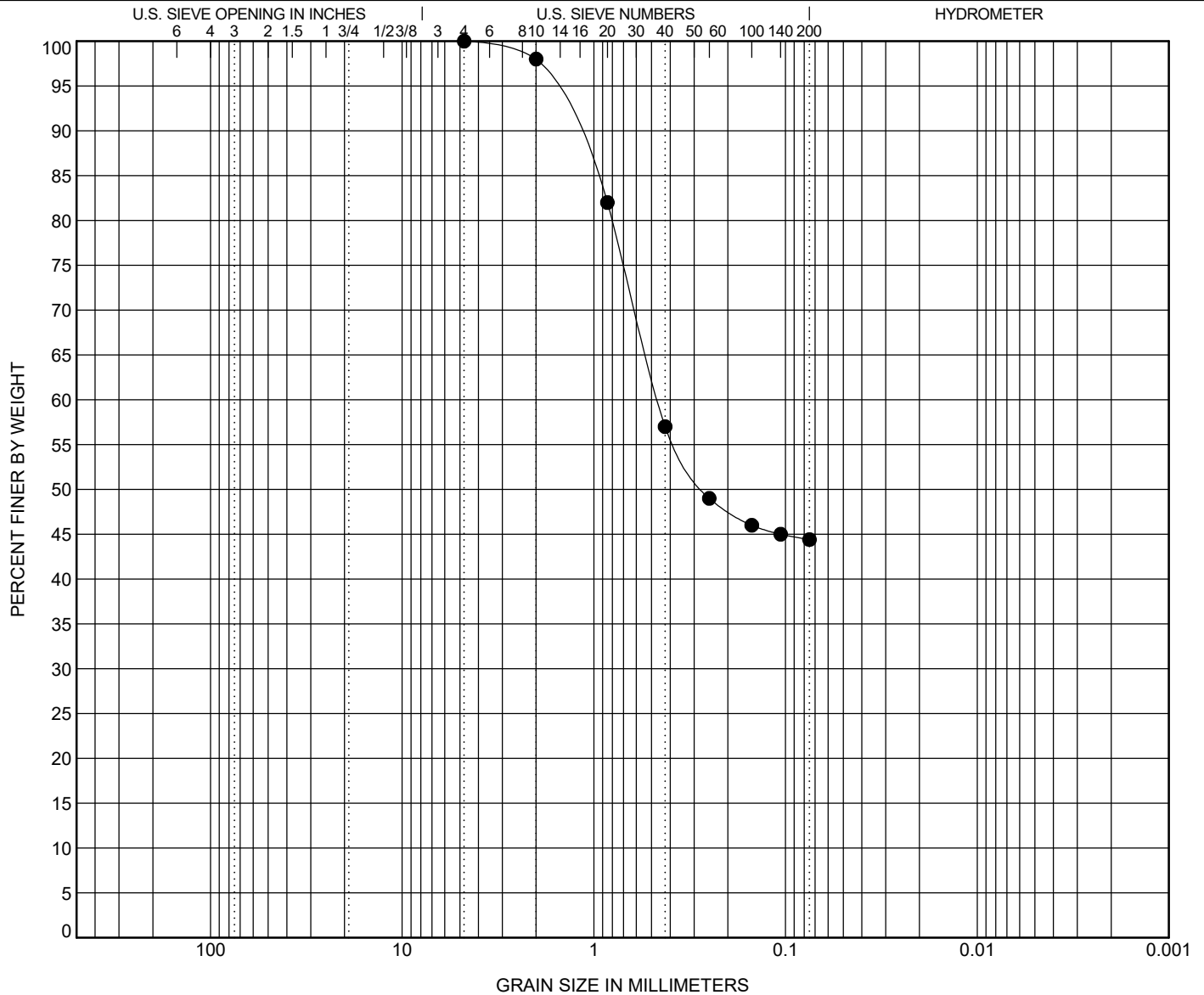


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

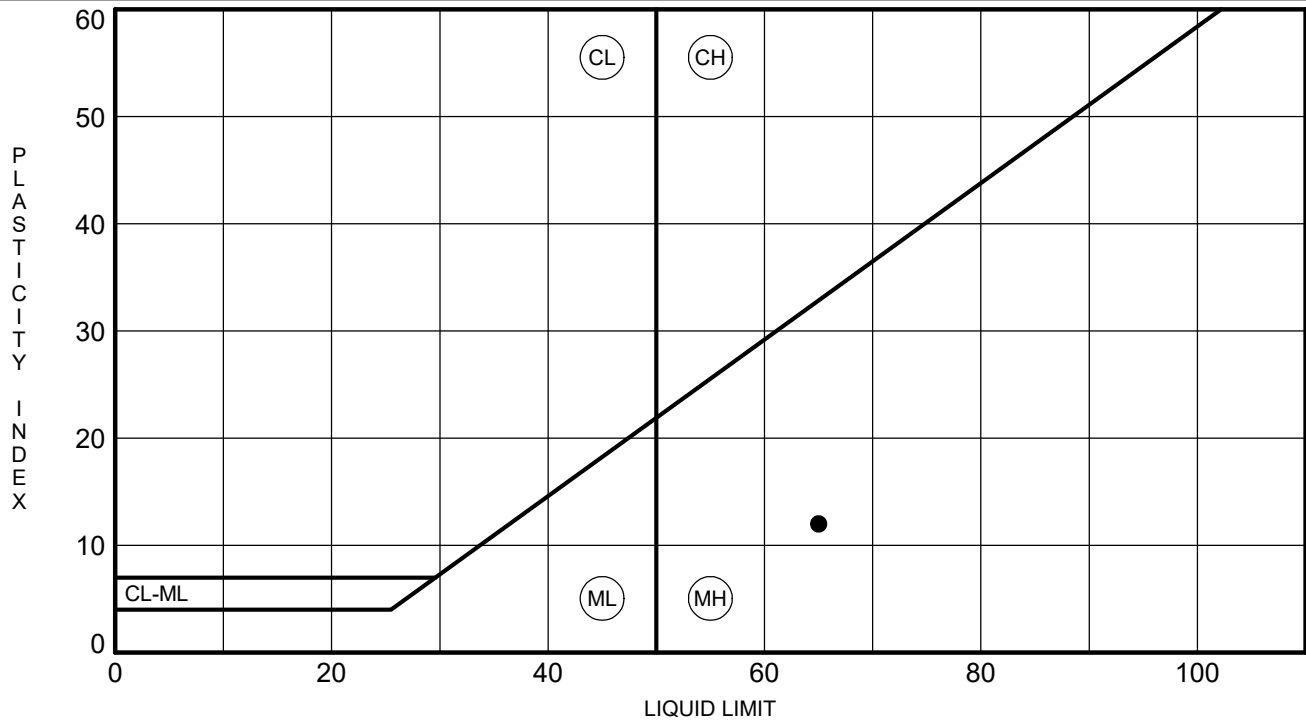


ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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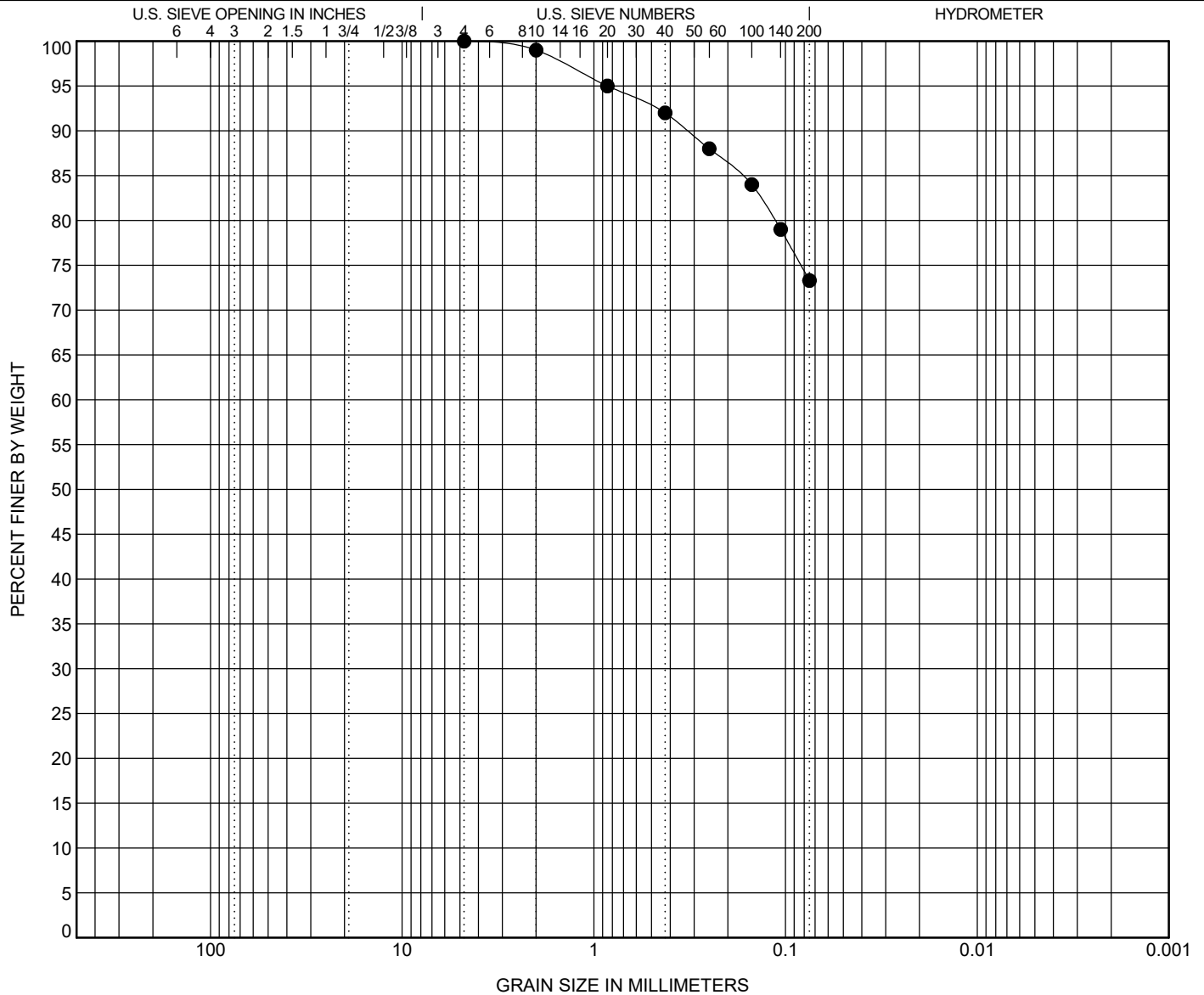


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
G-045	13.5	ELASTIC SILT with SAND(MH)					65	53	12		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
G-045	13.5	4.75				0.0	26.7	73.3			

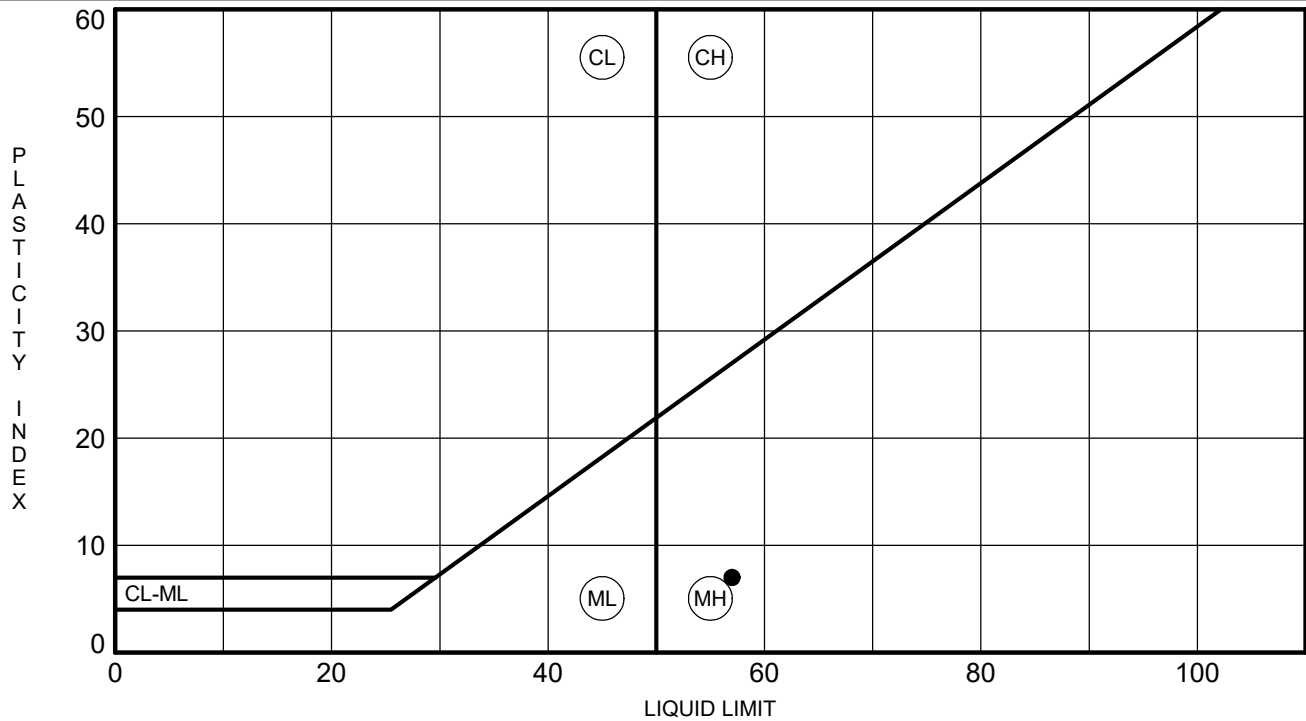
GRAIN SIZE 20-81_CCR2 ICE BH MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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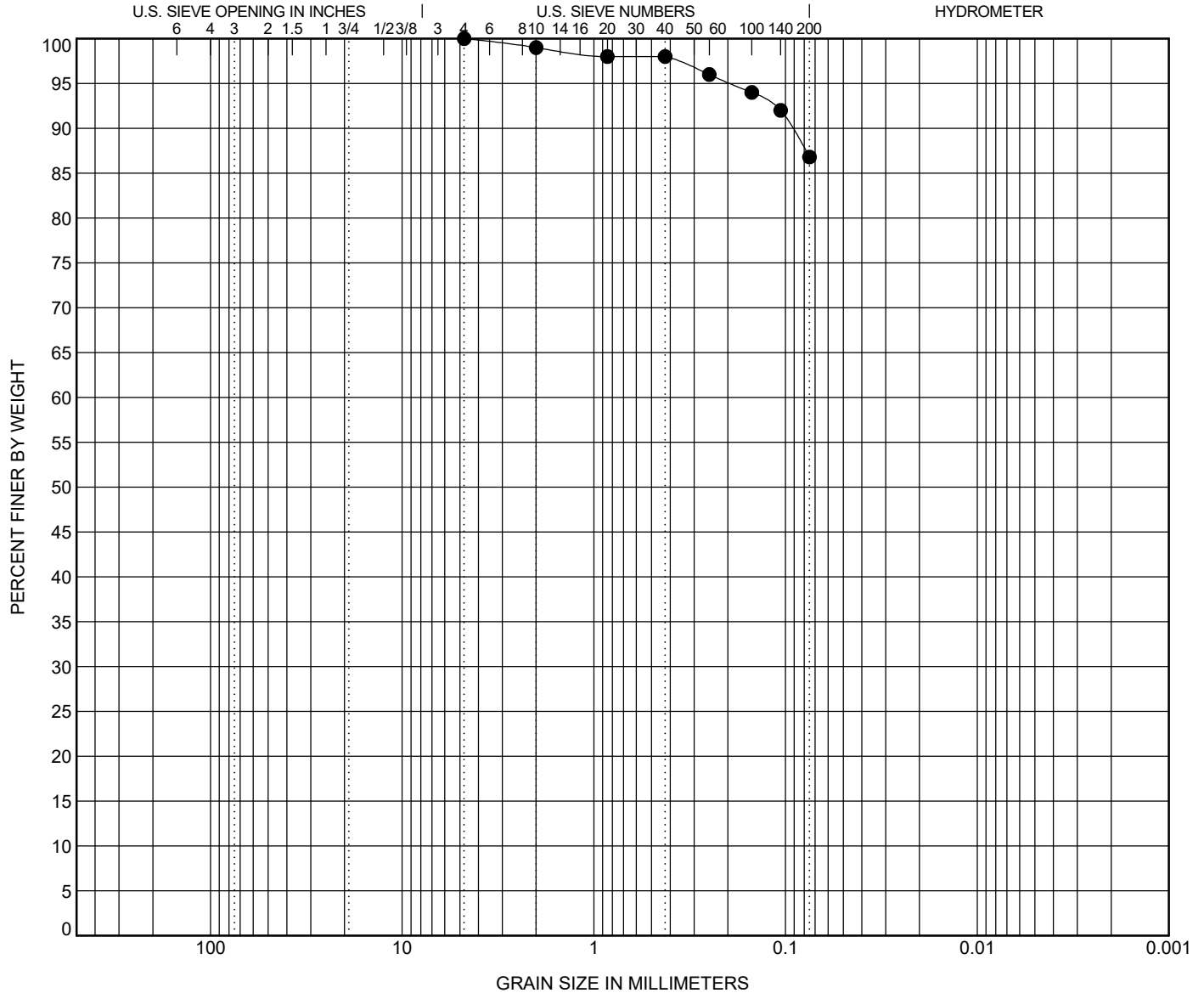


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

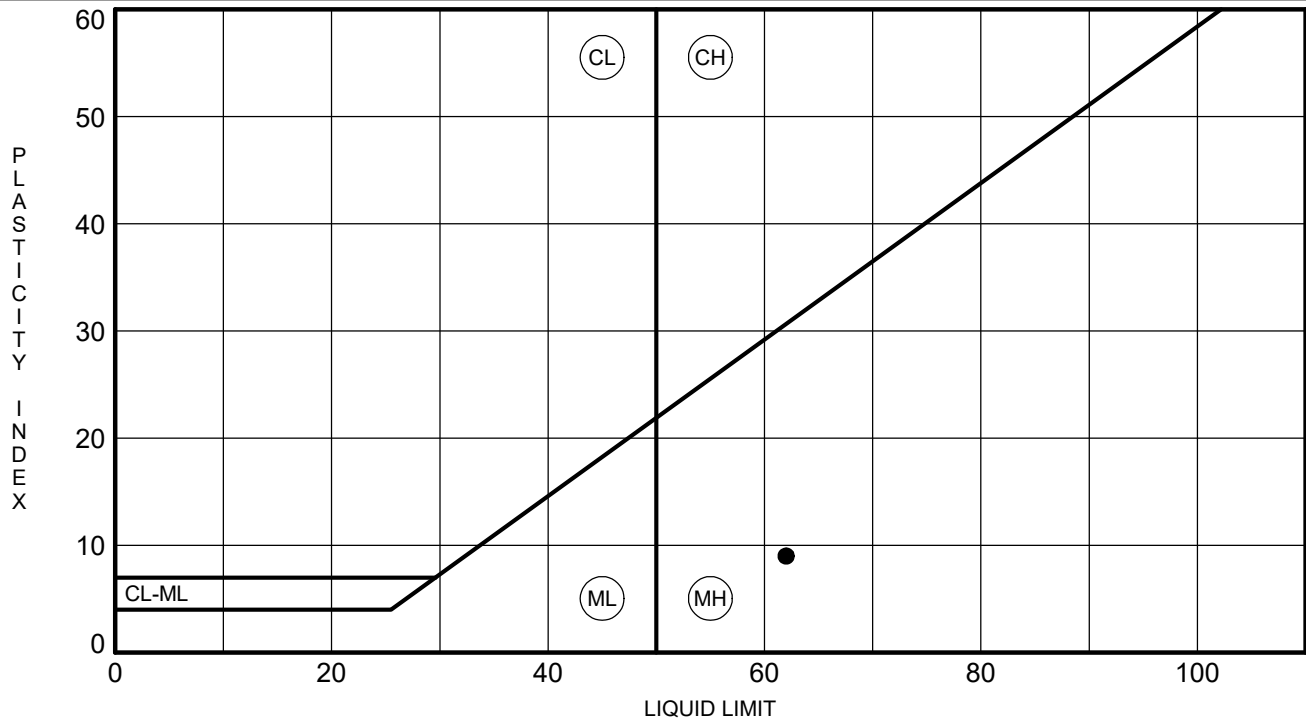
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-046	18.5	ELASTIC SILT(MH)					57	50	7		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-046	18.5	4.75				0.0	13.2	86.8			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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PROJECT COUNTY Richland

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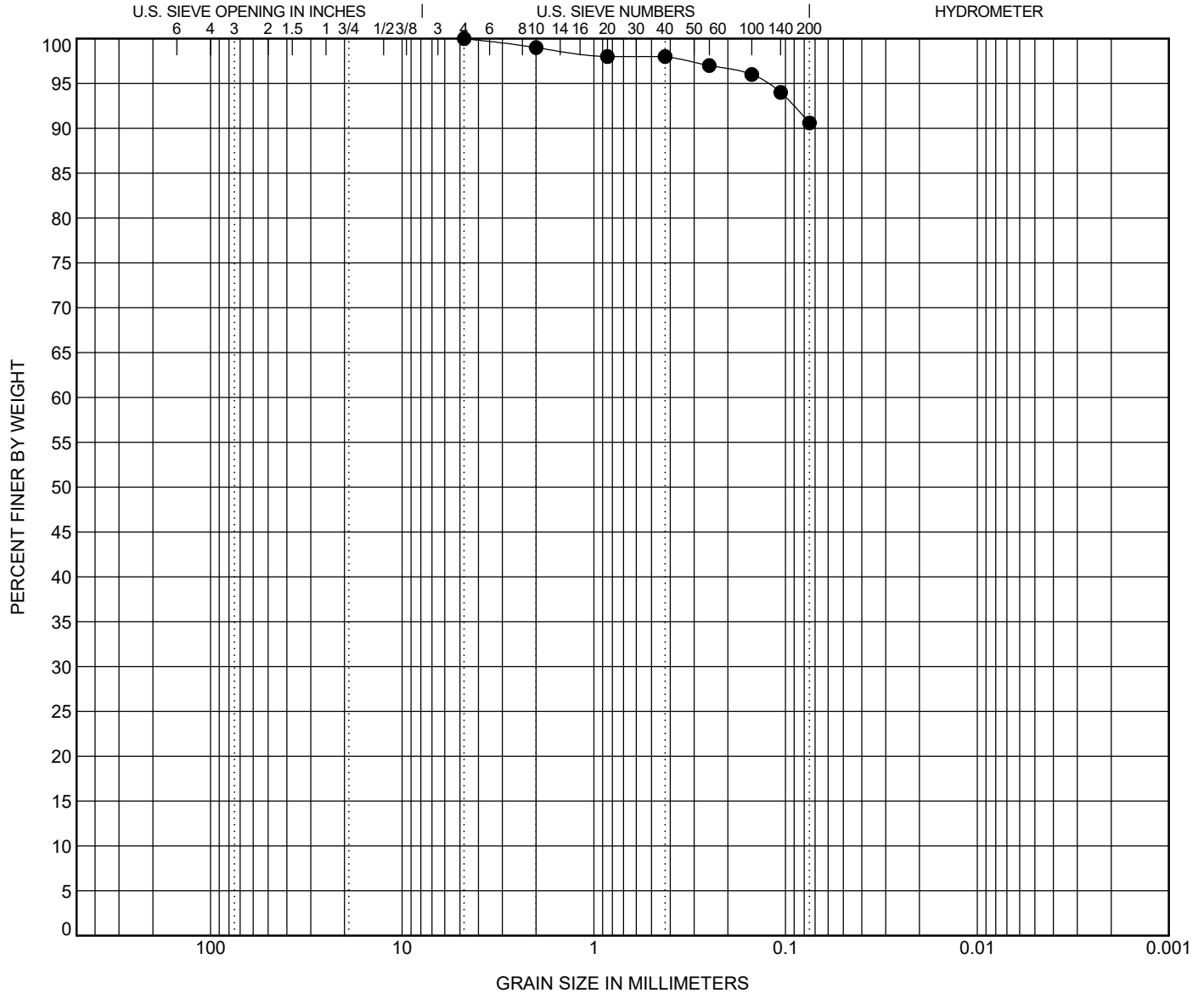


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

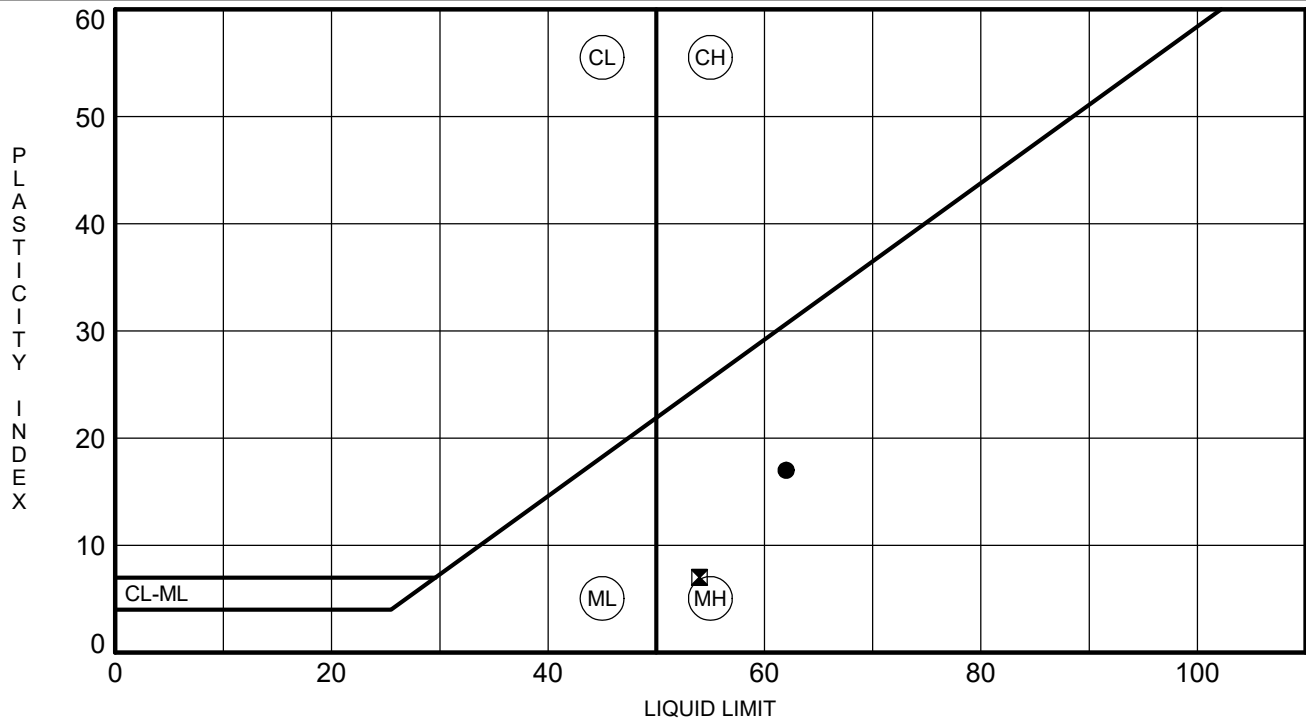
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-047	6.0	ELASTIC SILT(MH)					62	53	9		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-047	6.0	4.75				0.0	9.4	90.6			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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PROJECT COUNTY Richland

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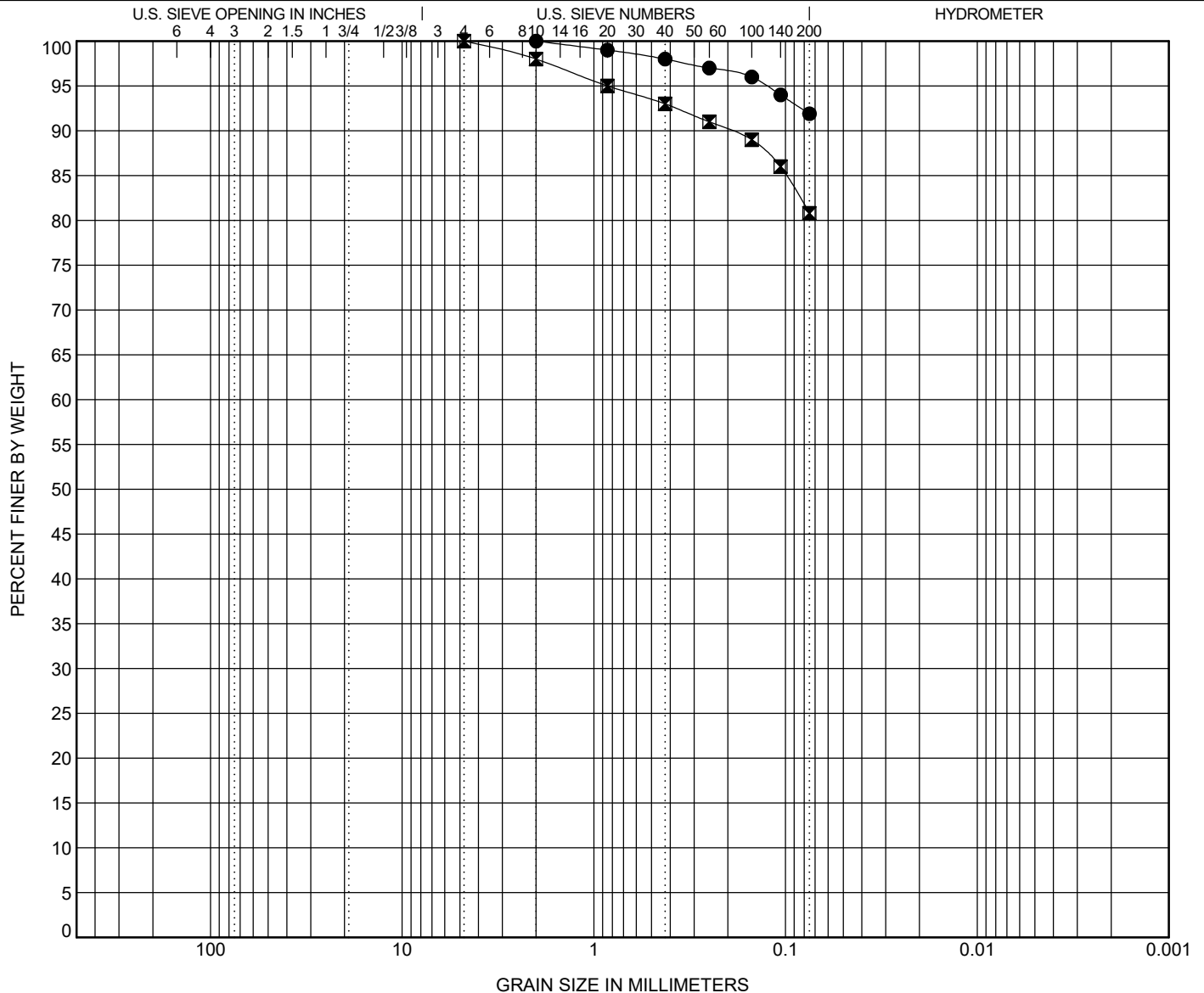


GRAIN SIZE DISTRIBUTION

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PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

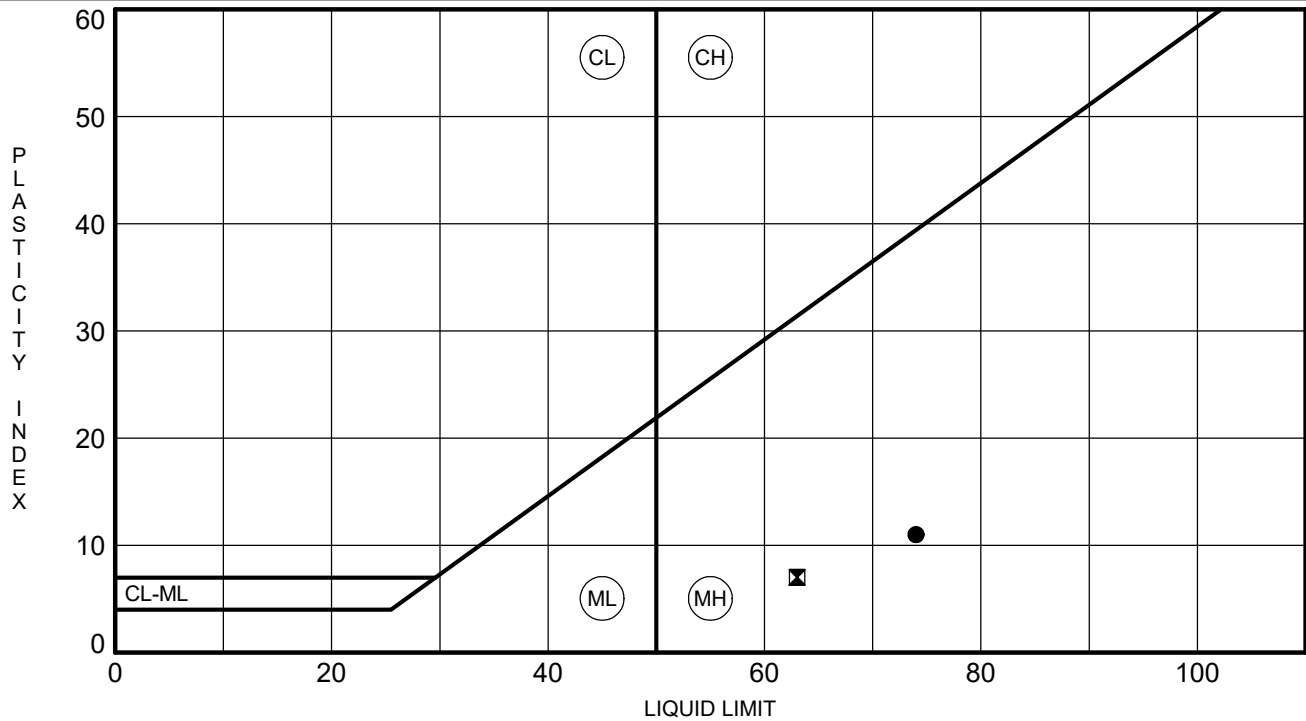


ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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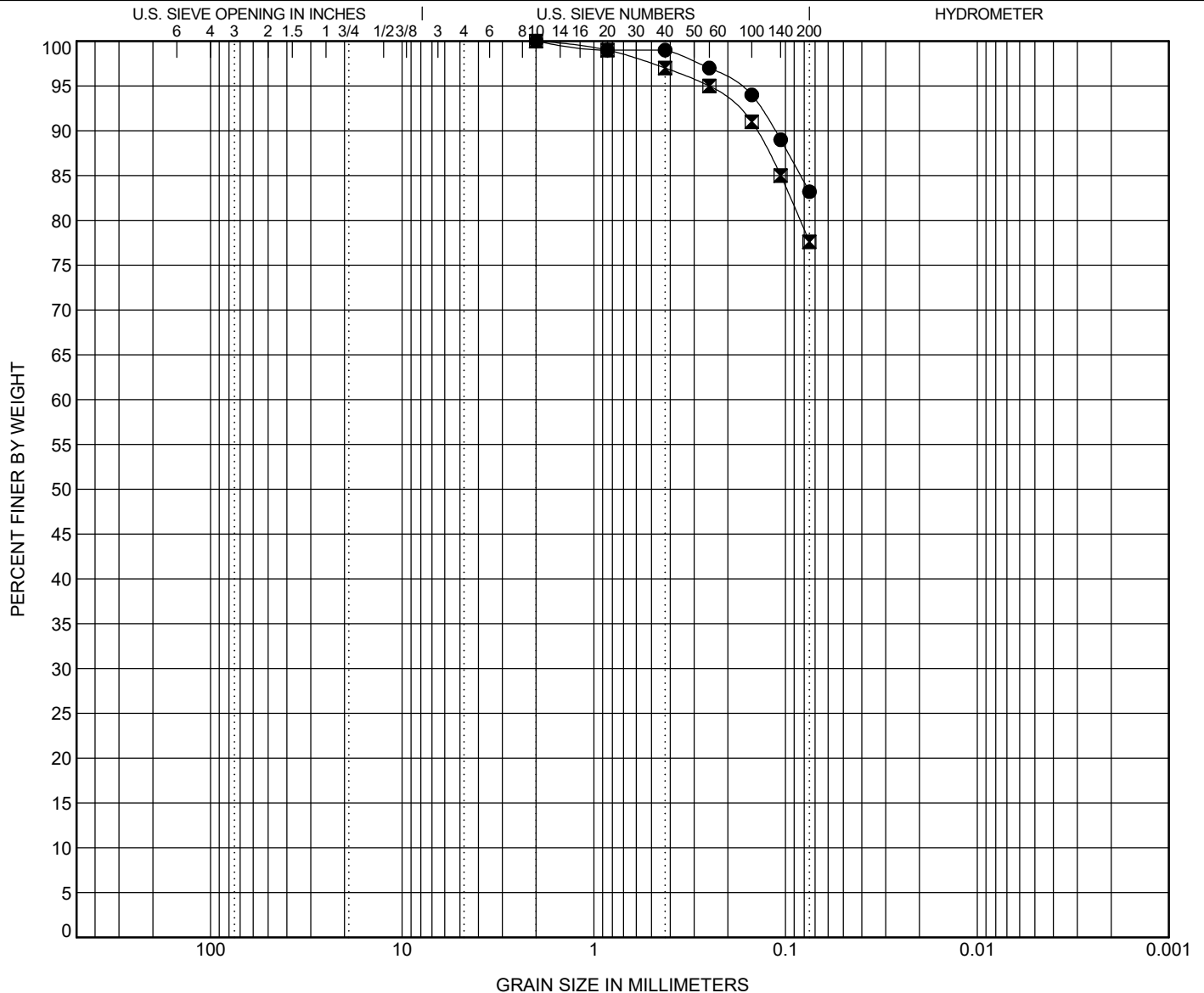


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-049	6.0	ELASTIC SILT with SAND(MH)					74	63	11		
☒ G-049	13.5	ELASTIC SILT with SAND(MH)					63	56	7		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-049	6.0	2				0.0	16.8	83.2			
☒ G-049	13.5	2				0.0	22.4	77.6			

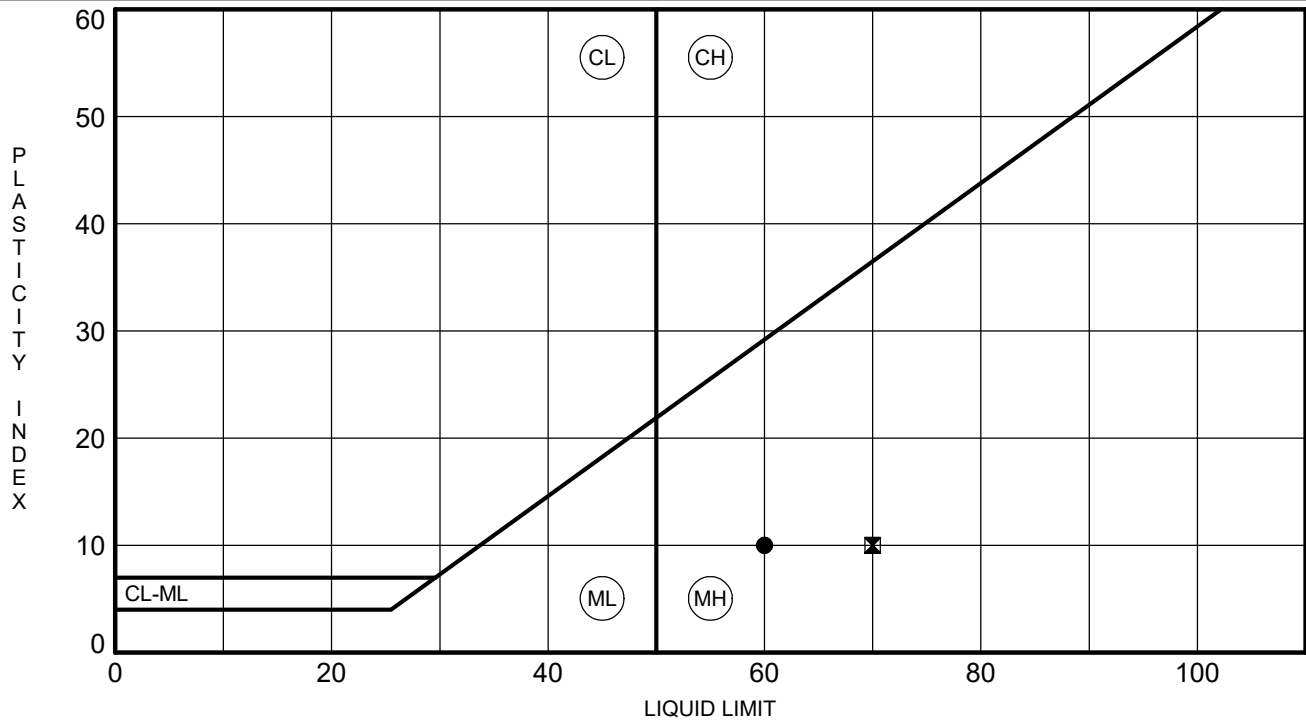
GRAIN SIZE 20-81_CCR2 ICE BH MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

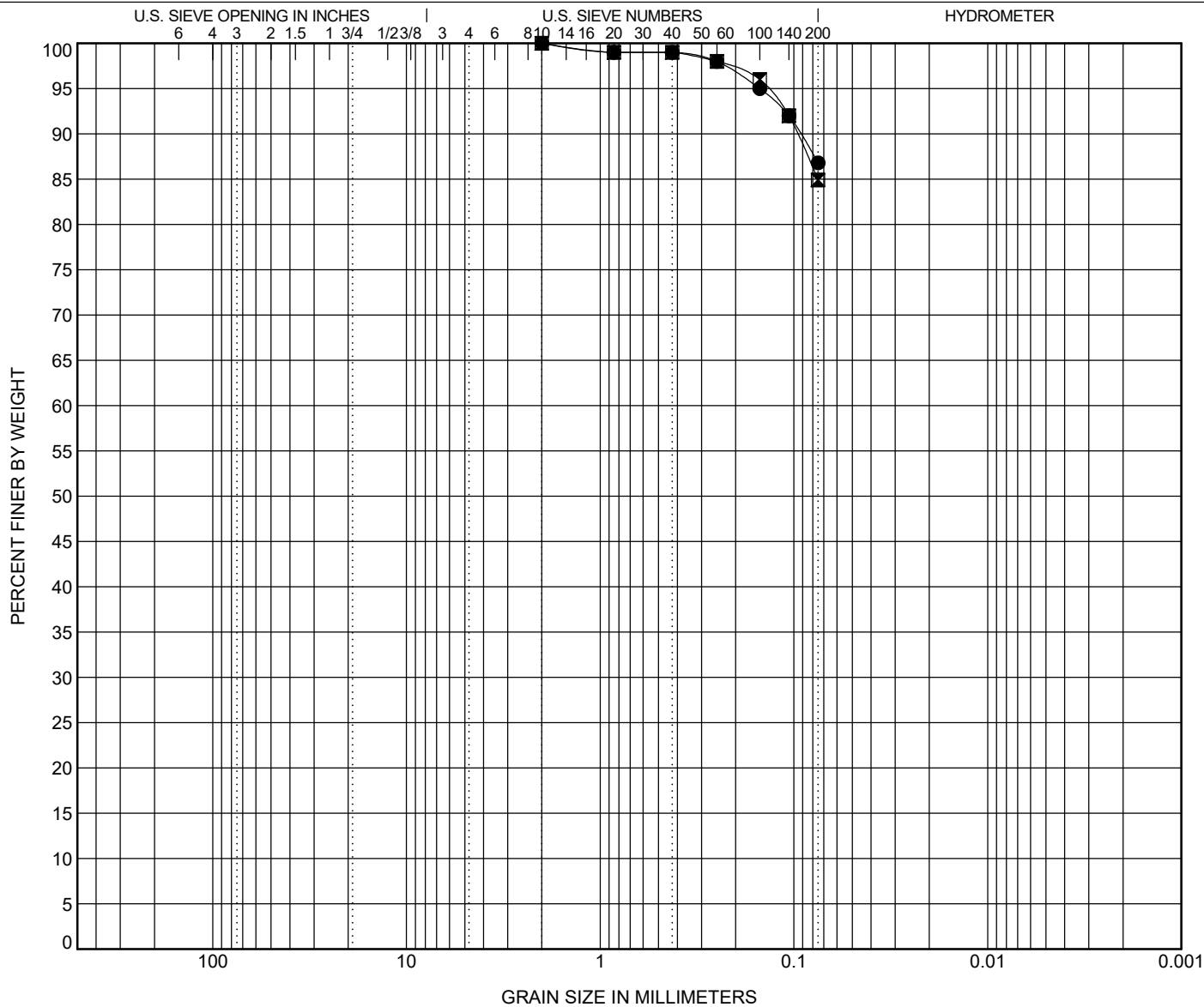
PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

[illegible]



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		PROJECT COUNTY	Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

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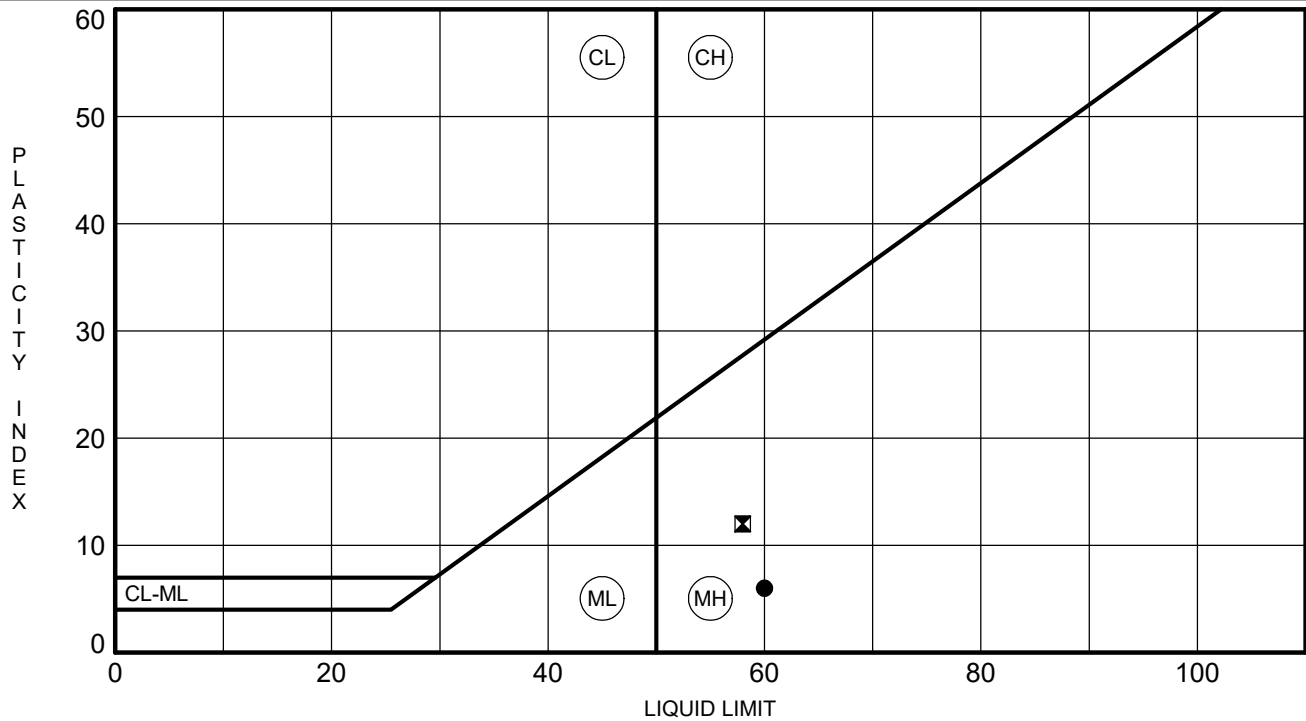
GRAIN SIZE 20-81 CCR2 ICE BH MERGED.GPJ SCDOT DATA TEMPLATE 01 30 2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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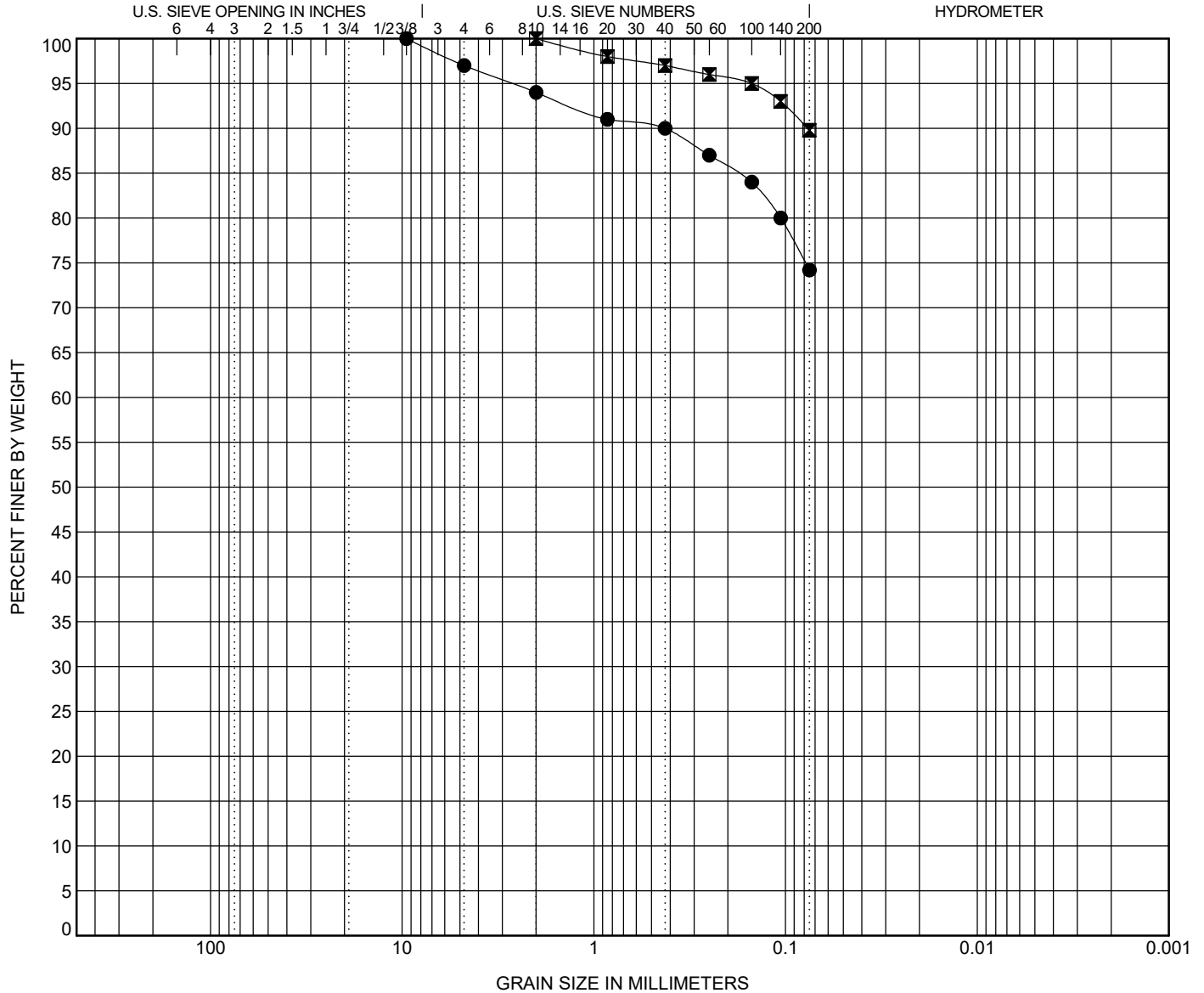


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

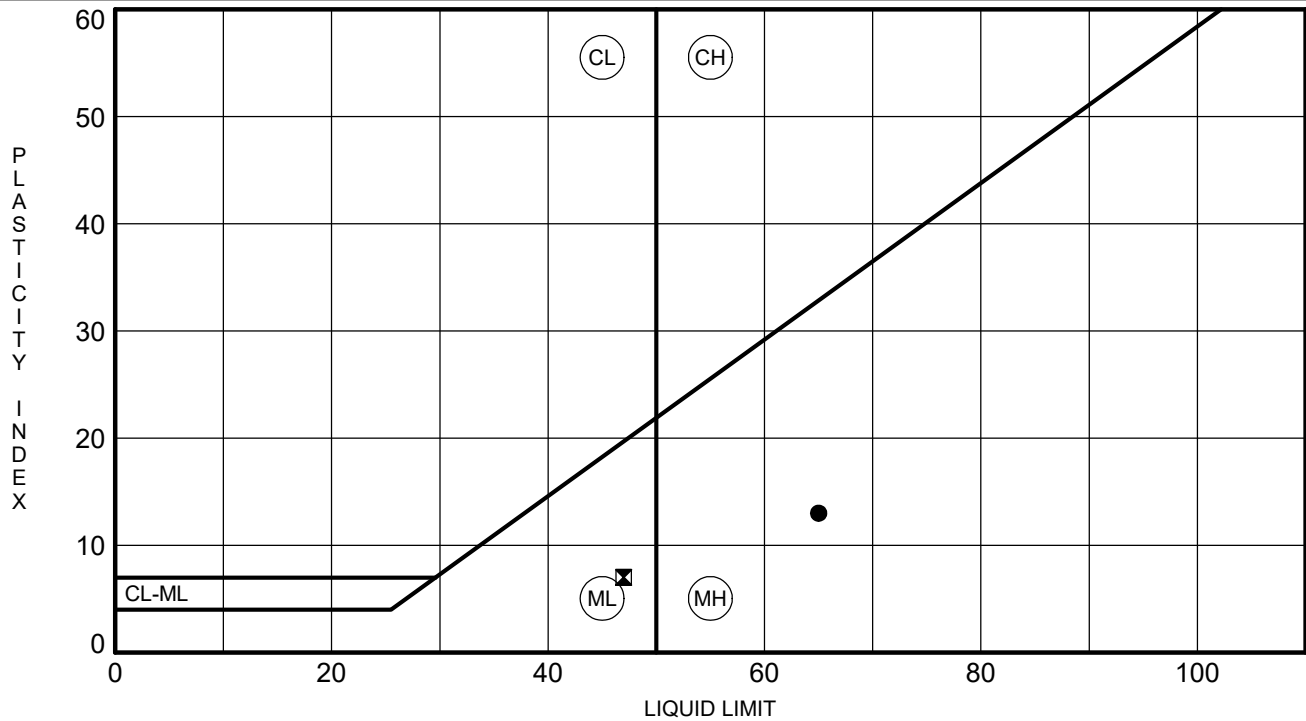
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-051	2.0	ELASTIC SILT with SAND(MH)					60	54	6		
☒ G-051	13.5	ELASTIC SILT(MH)					58	46	12		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-051	2.0	9.5				3.0	22.8	74.2			
☒ G-051	13.5	2				0.0	10.2	89.8			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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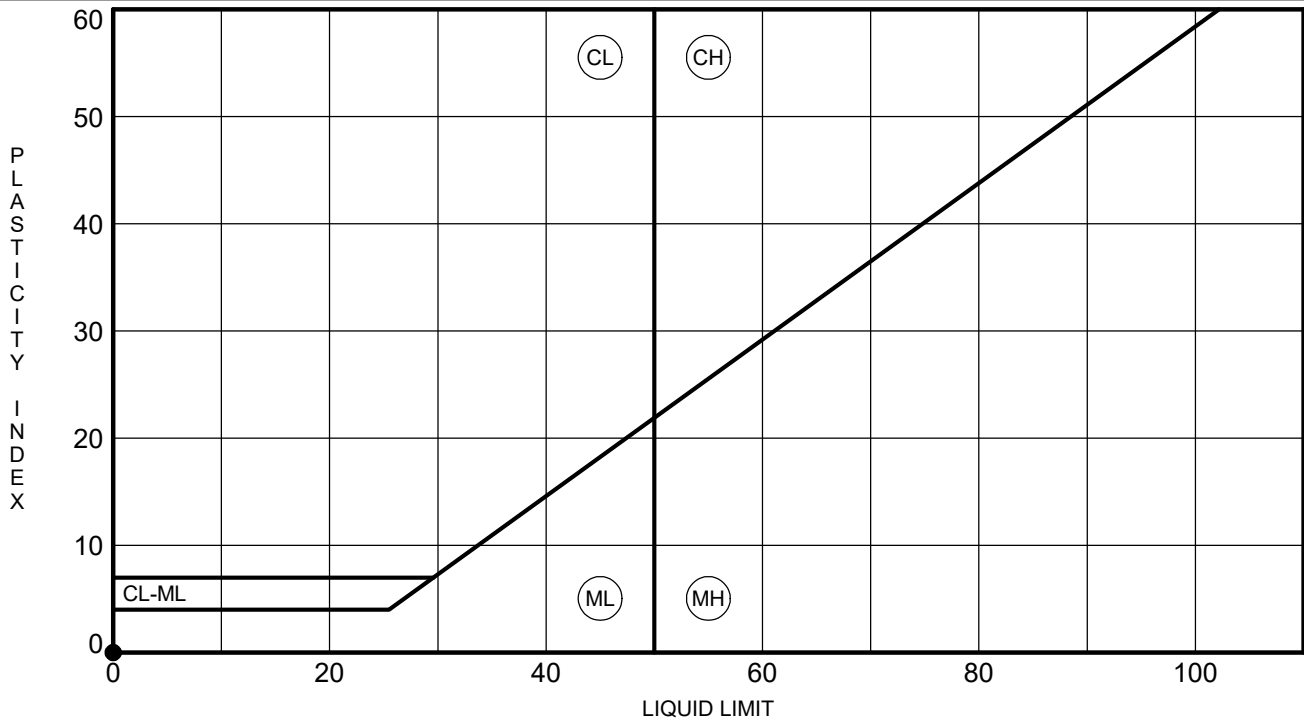
GRAIN SIZE DISTRIBUTION

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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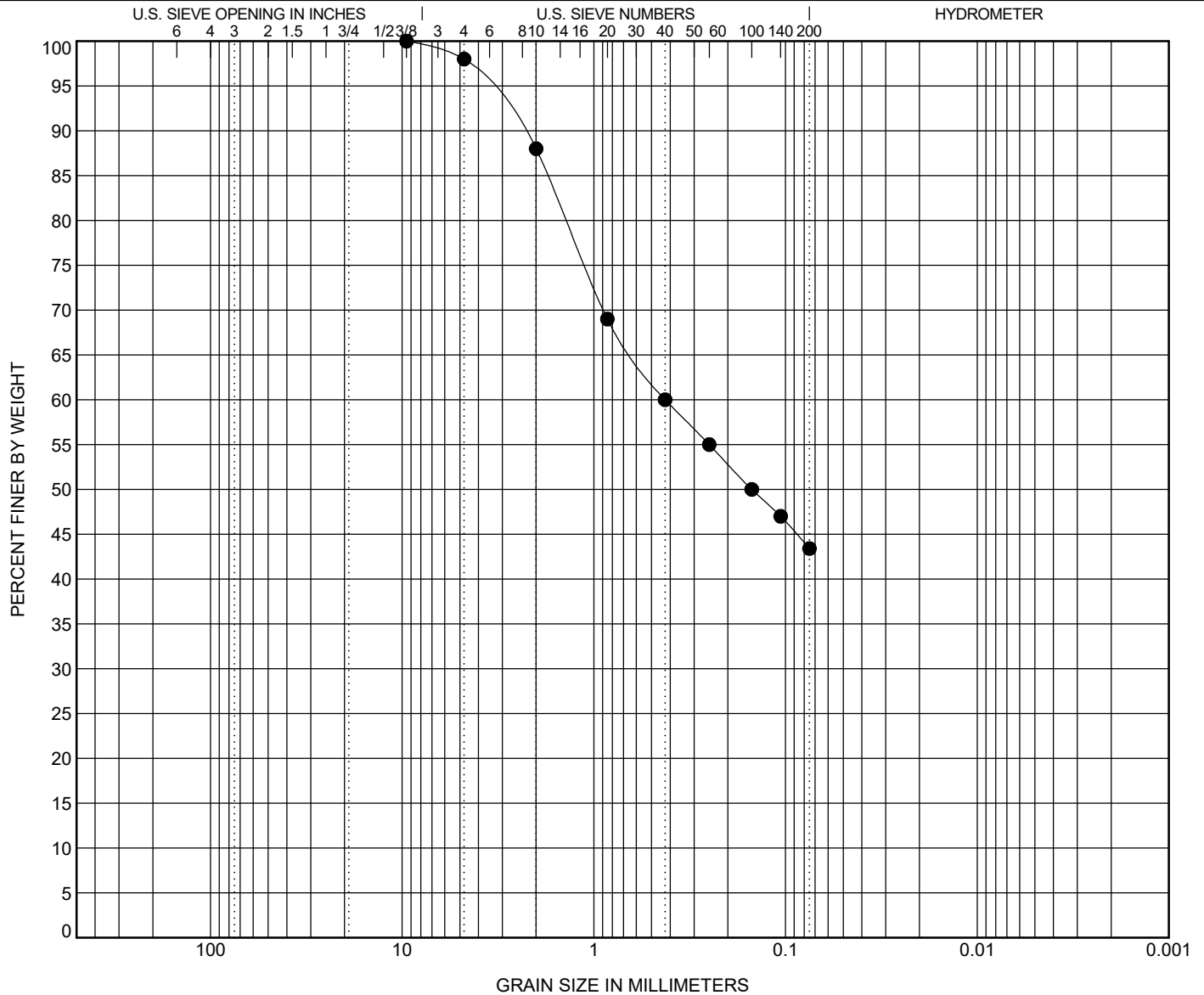


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

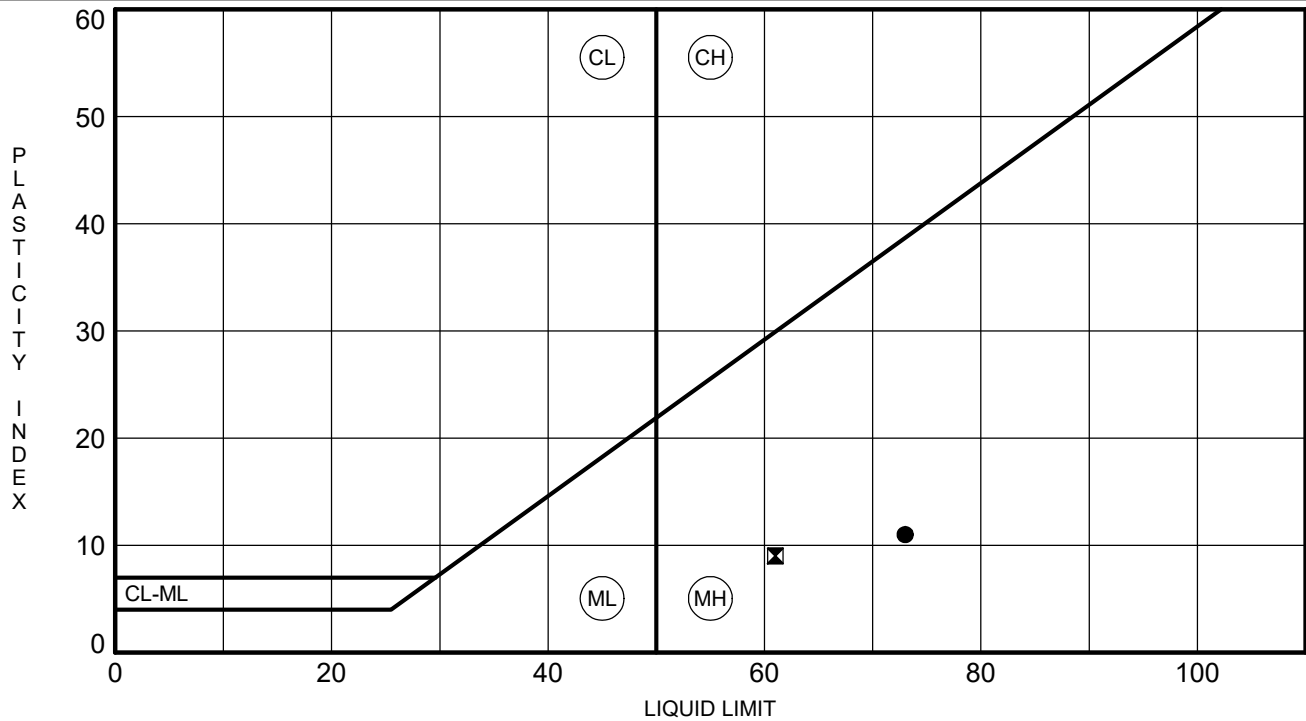
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-053	10.0	SILTY SAND(SM)					NP	NP	NP		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-053	10.0	9.5	0.425			2.0	54.6	43.4			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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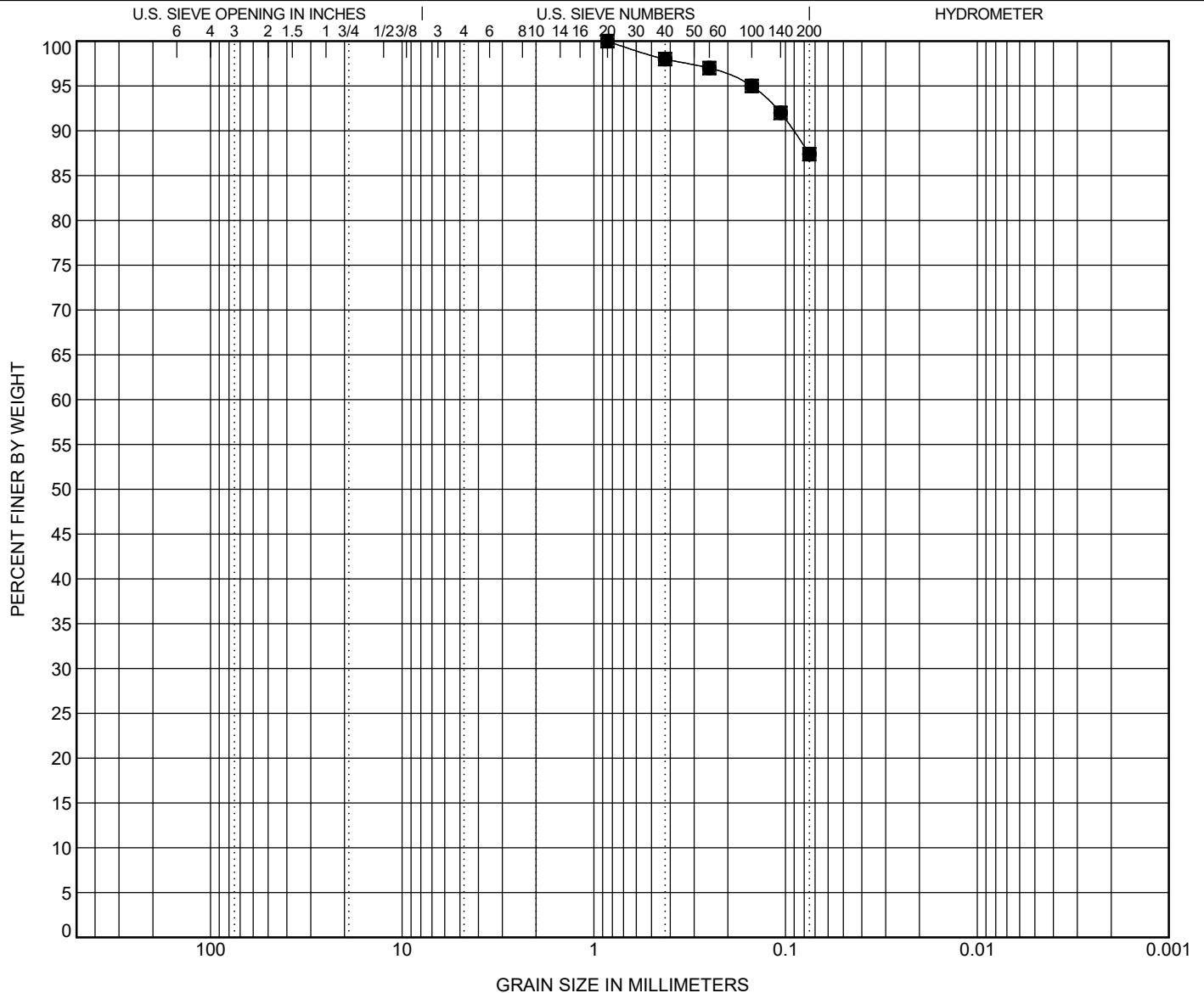


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-054	8.0	ELASTIC SILT(MH)					73	62	11		
☒ G-054	18.5	ELASTIC SILT(MH)					61	52	9		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-054	8.0	0.85				0.0	12.6	87.4			
☒ G-054	18.5	0.85				0.0	12.6	87.4			

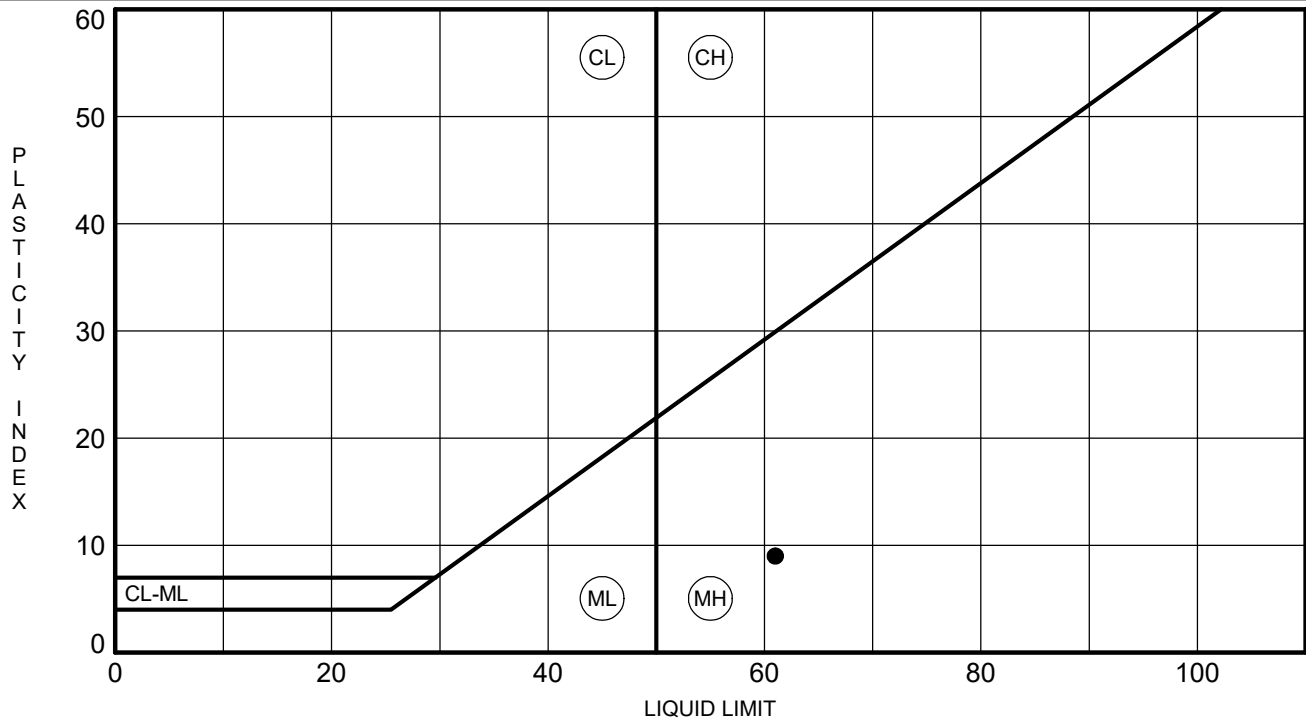
GRAIN SIZE 20-81_CCR2 ICE BH MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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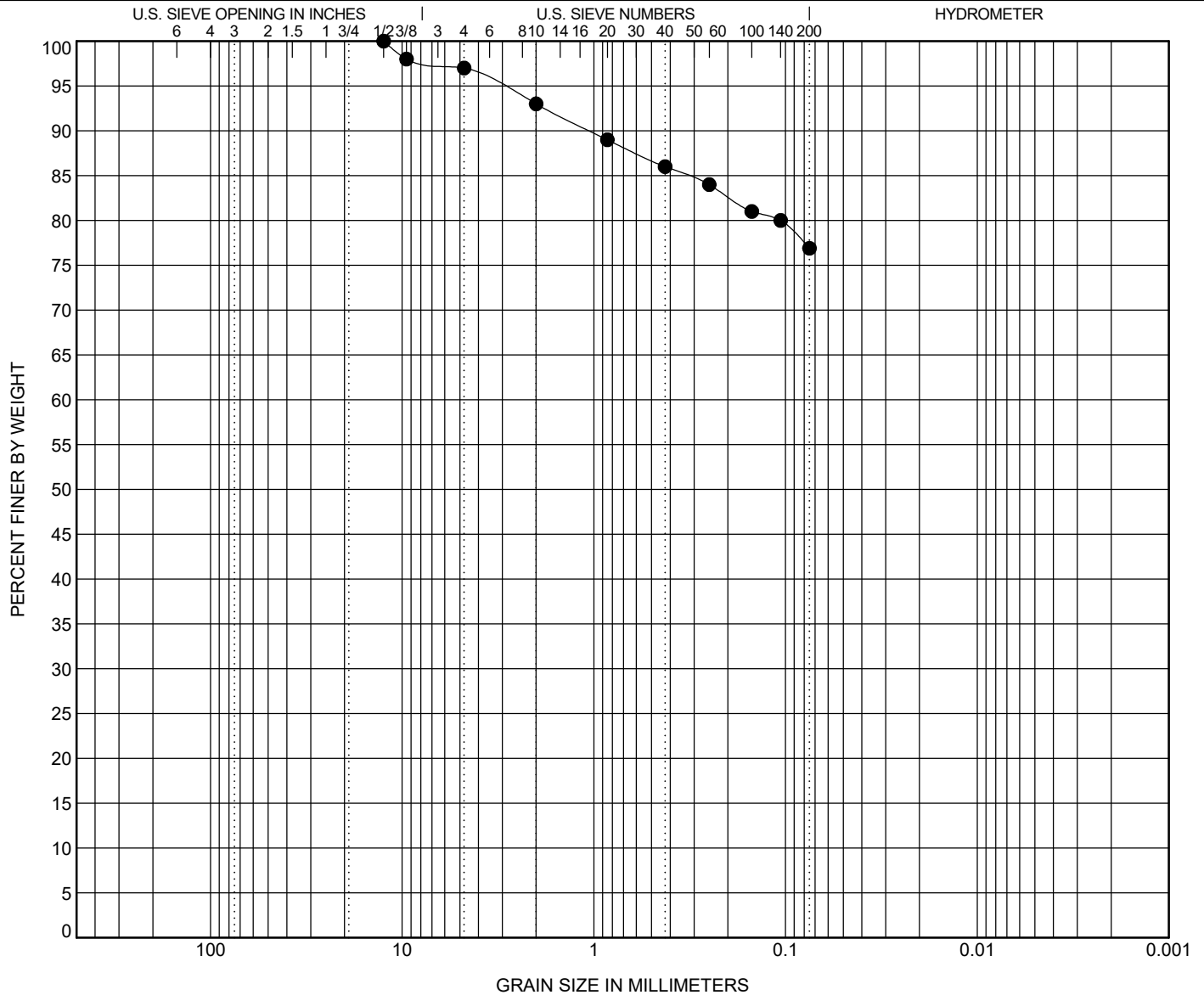


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

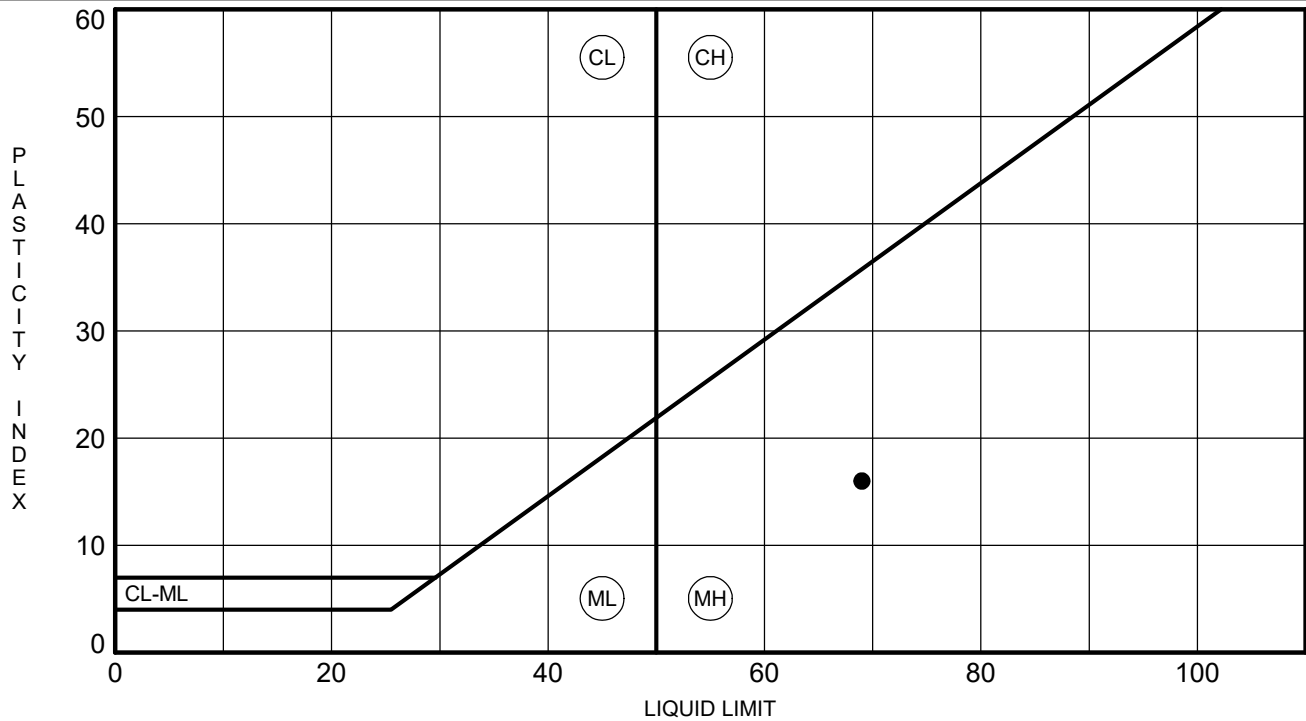
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-055	6.0	ELASTIC SILT with SAND(MH)					61	52	9		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-055	6.0	12.5				3.0	20.1	76.9			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

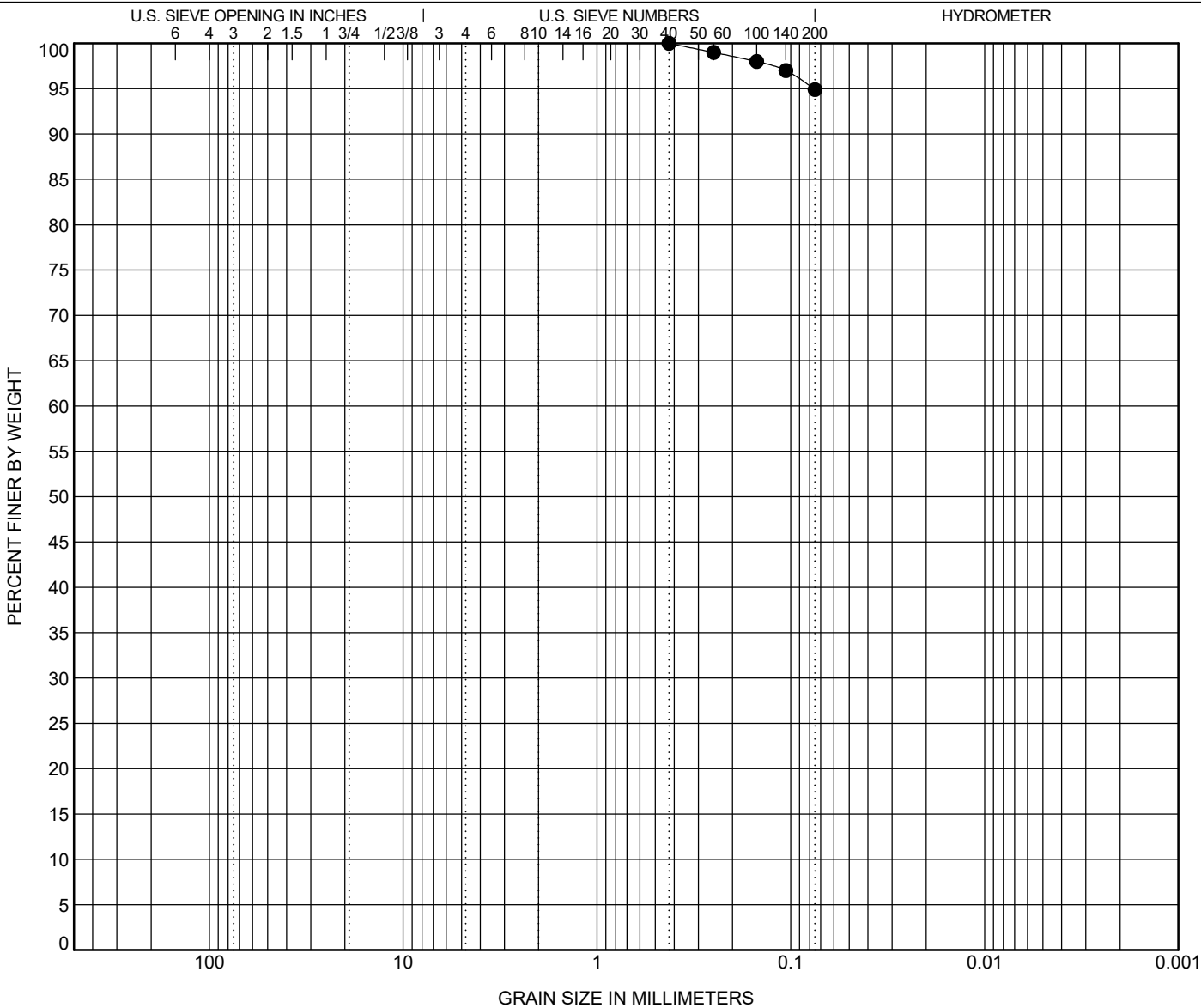
PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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PROJECT ID	P039719	PROJECT NAME	Carolina Crossroads Phase 2
		PROJECT COUNTY	Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

[illegible]

GRAIN SIZE 20-81 CCR2 ICE BH MERGED.GPJ SCDOT DATA TEMPLATE 01 30 2015.GDT 4/21/22

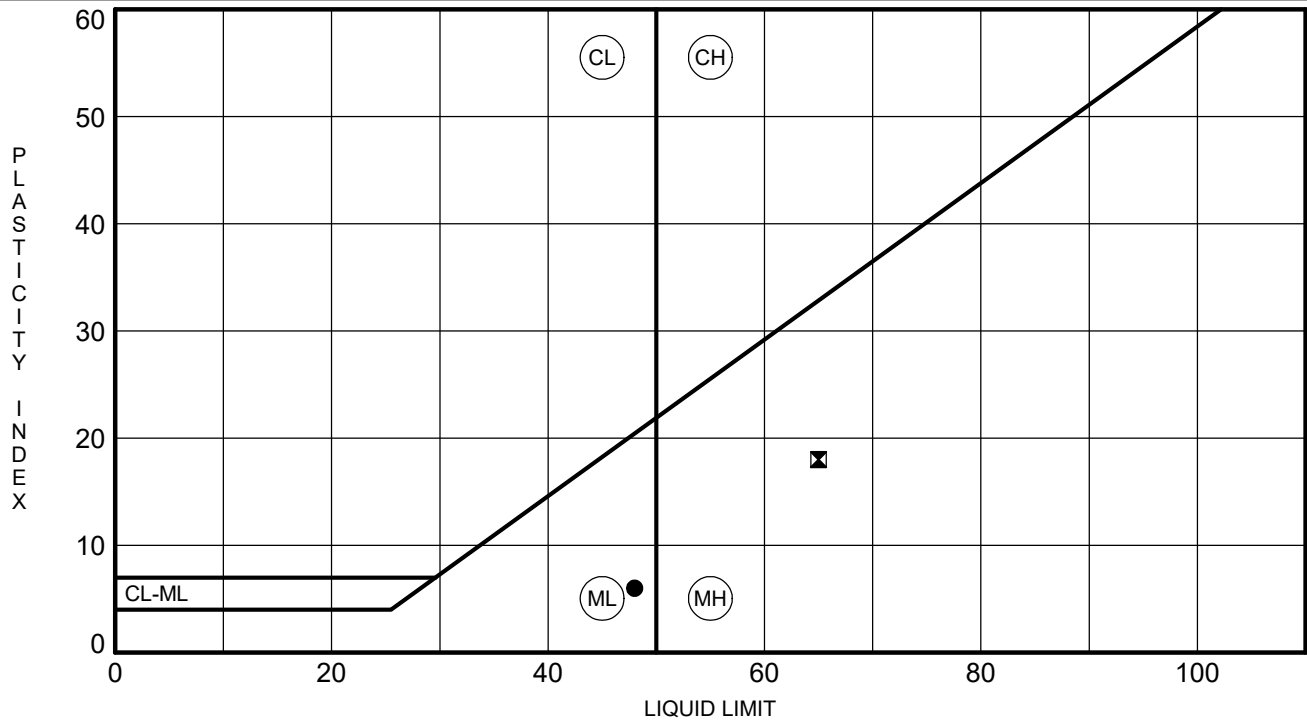


ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



ATTERBERG LIMITS 20-81_CCR2_ICE_BH_MERGED.GPJ SCDOT DATA TEMPLATE 01_30_2015.GDT 4/21/22

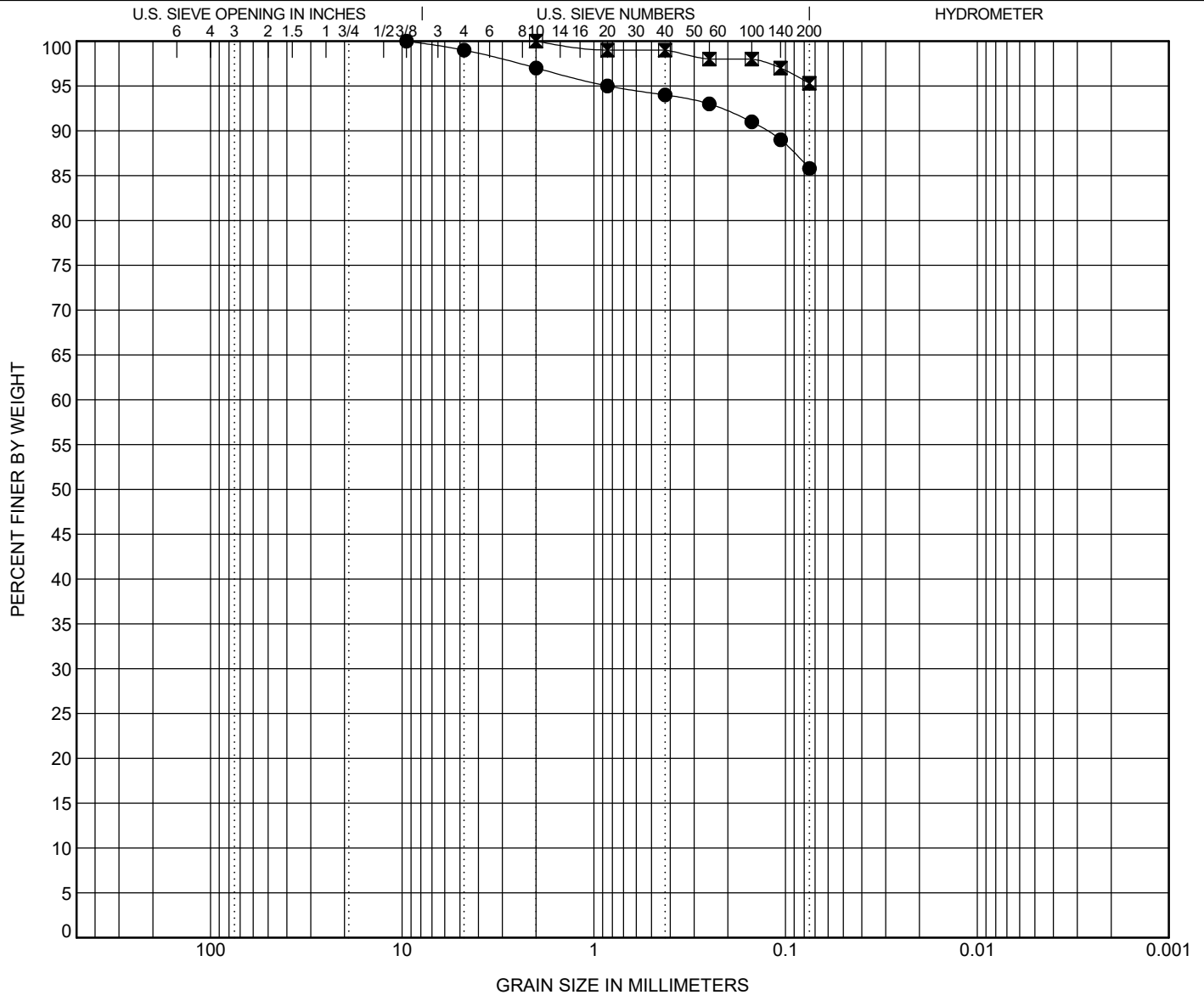


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

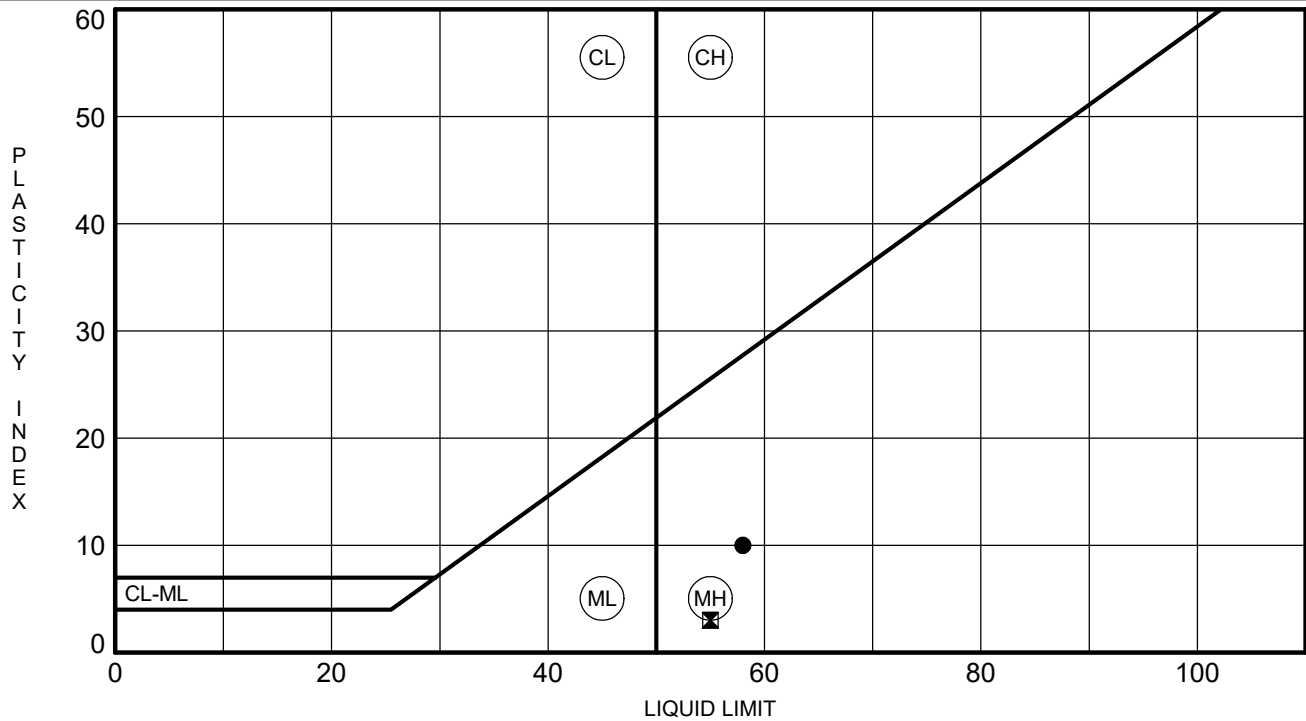
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-057	4.0	SILT(ML)					48	42	6		
☒ G-057	18.5	ELASTIC SILT(MH)					65	47	18		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-057	4.0	9.5				1.0	13.2	85.8			
☒ G-057	18.5	2				0.0	4.7	95.3			

ATTERBERG LIMITS' RESULTS

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PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



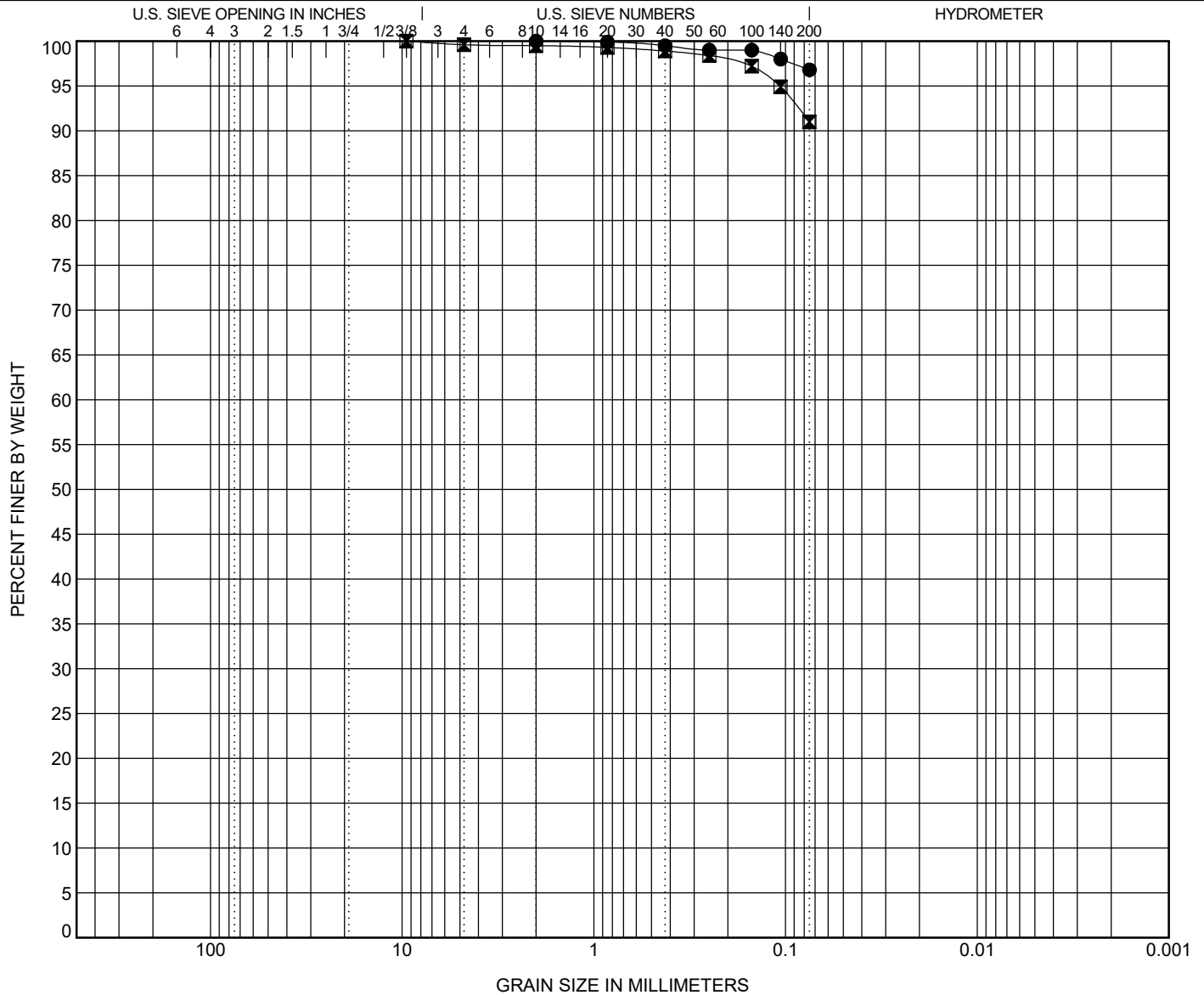


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-058	8.0	ELASTIC SILT(MH)					58	48	10		
☒ G-058	18.5	ELASTIC SILT(MH)					55	52	3		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-058	8.0	2				0.0	3.2	96.8			
☒ G-058	18.5	9.5				0.4	8.6	91.0			

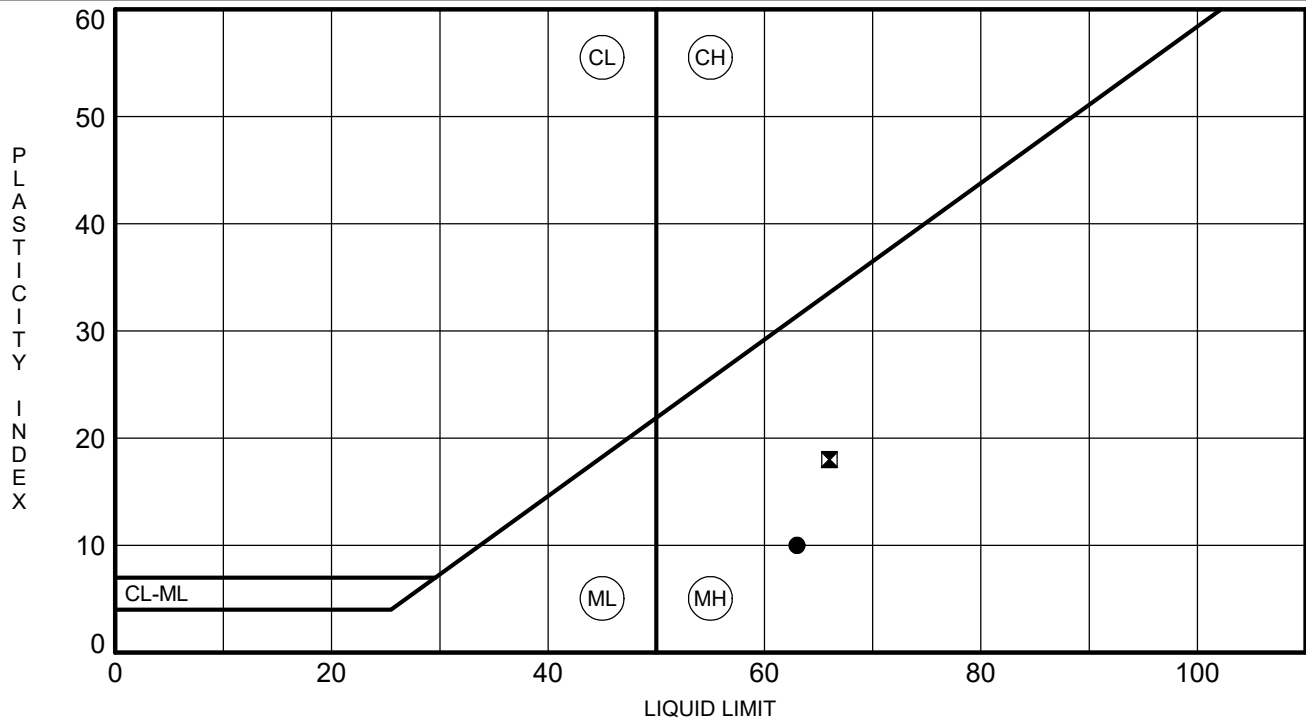
GRAIN SIZE 20-81_CCR2 ICE BH MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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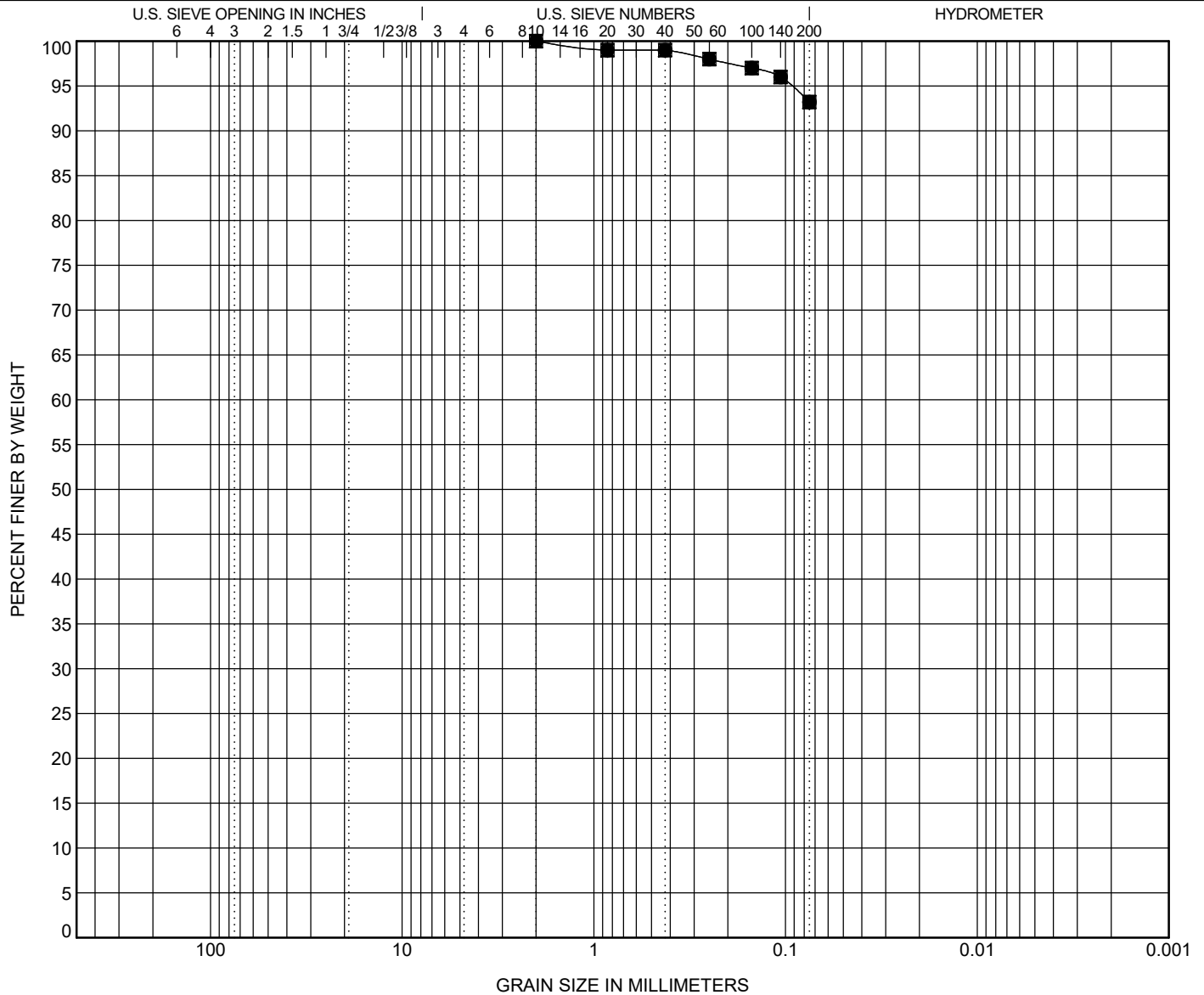


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

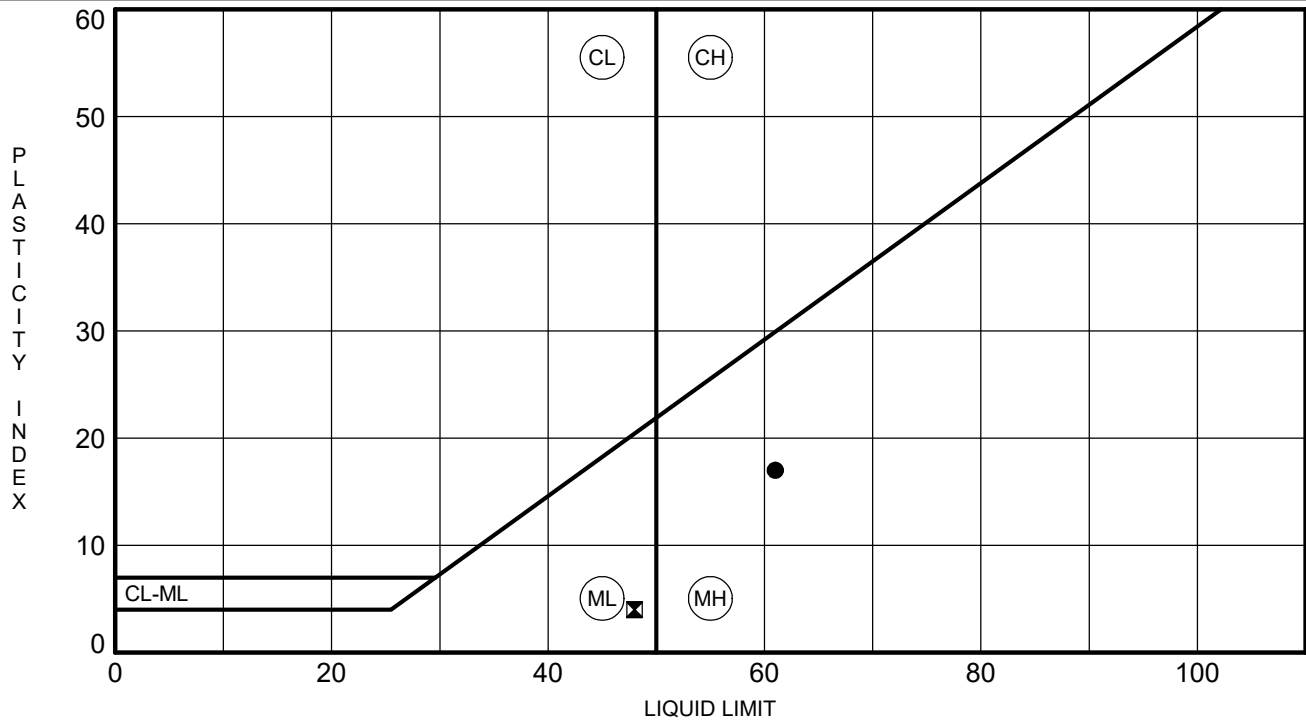
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-059	2.0	ELASTIC SILT(MH)					63	53	10		
☒ G-059	23.5	ELASTIC SILT(MH)					66	48	18		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-059	2.0	2				0.0	6.8	93.2			
☒ G-059	23.5	2				0.0	6.8	93.2			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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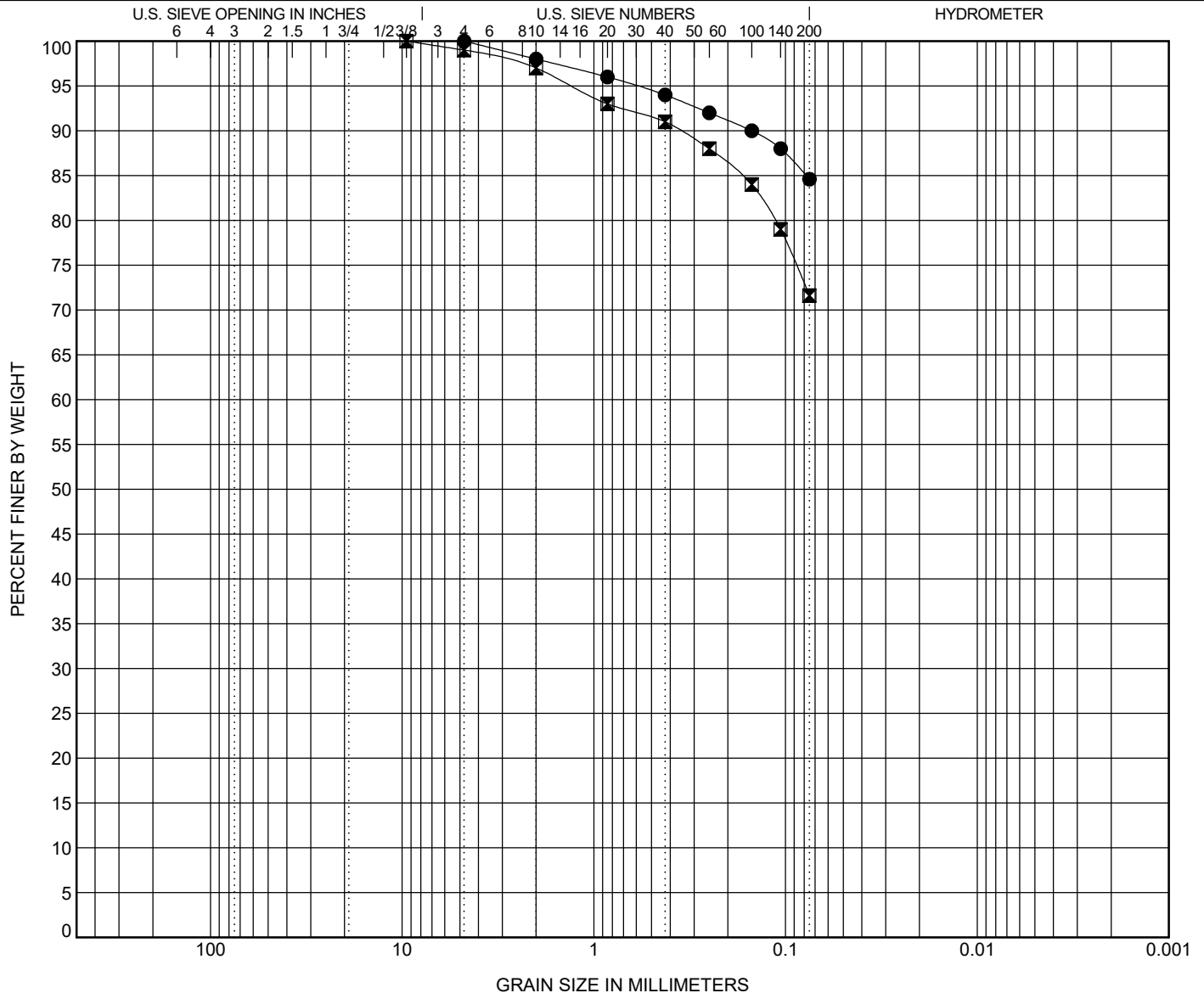


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-060	6.0	ELASTIC SILT with SAND(MH)					61	44	17		
☒ G-060	18.5	SILT with SAND(ML)					48	44	4		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-060	6.0	4.75				0.0	15.4	84.6			
☒ G-060	18.5	9.5				1.0	27.4	71.6			

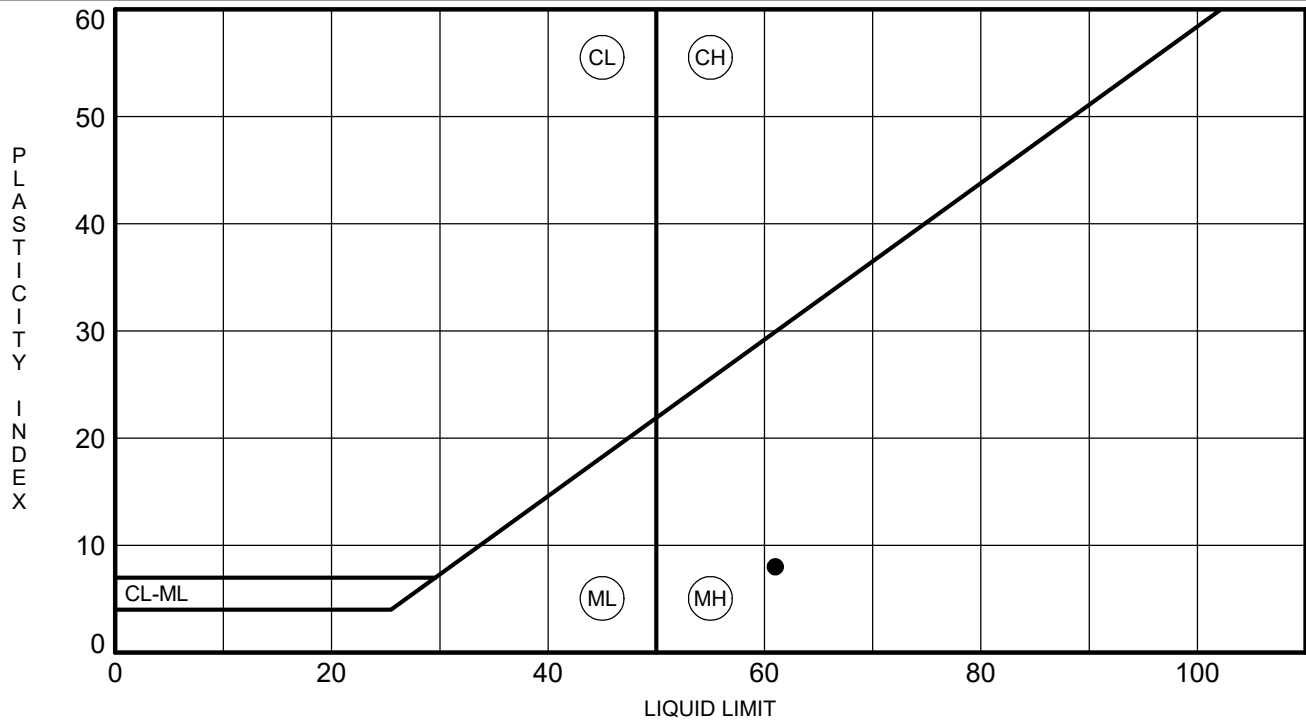
GRAIN SIZE 20-81_CCR2 ICE BH MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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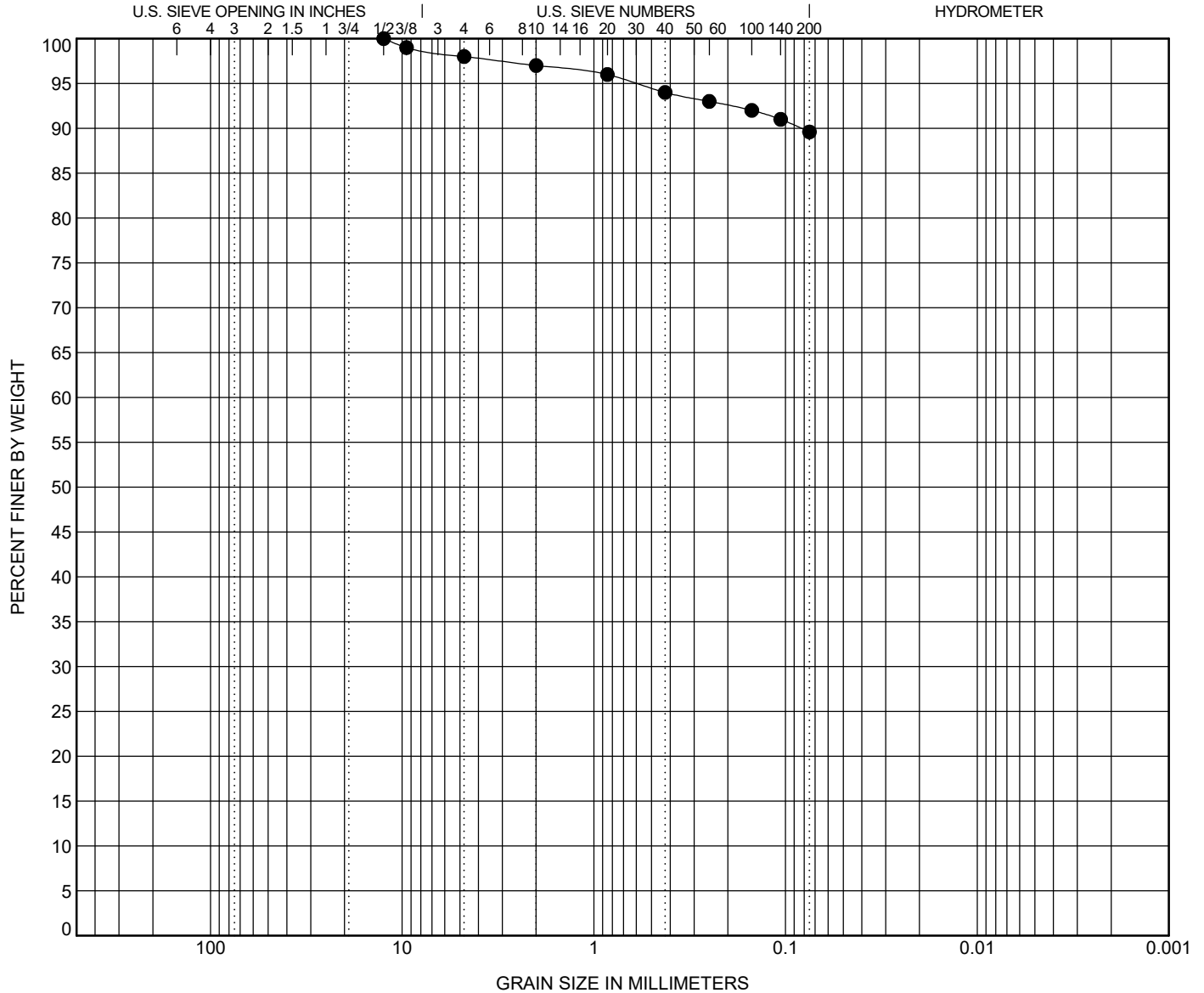


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

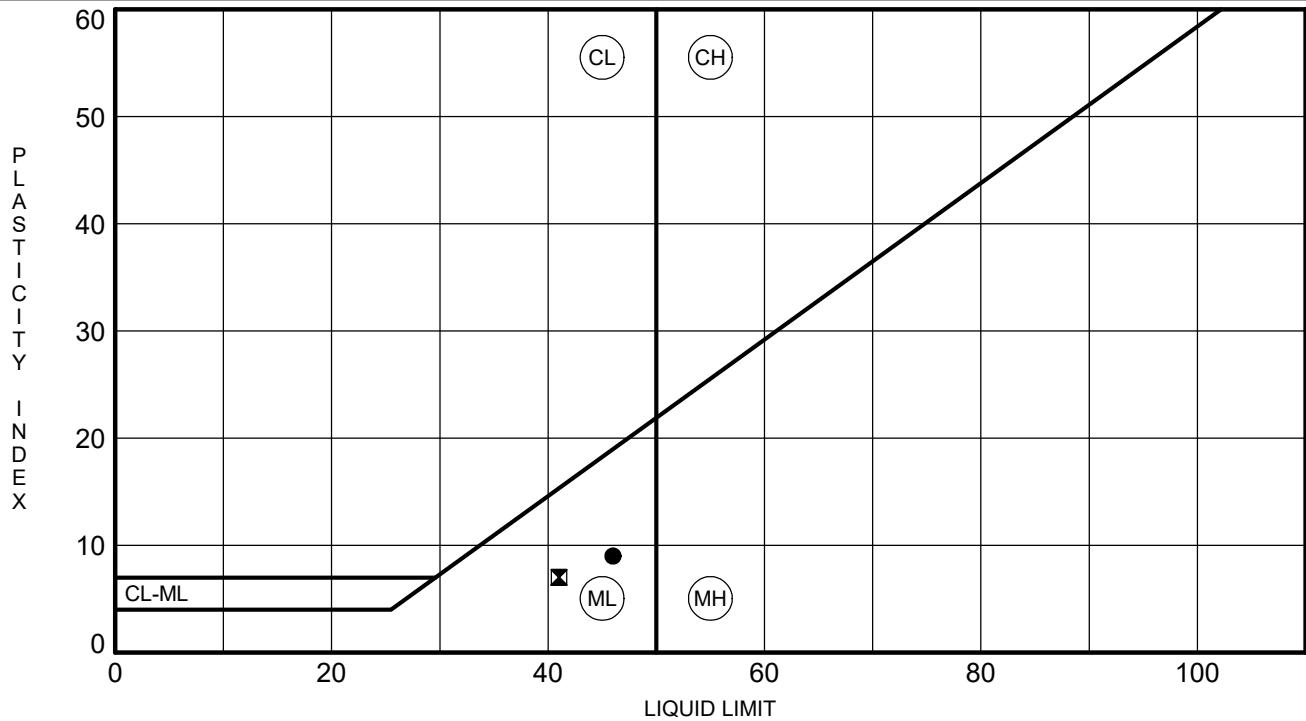
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-061	13.5	ELASTIC SILT(MH)					61	53	8		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-061	13.5	12.5				2.0	8.4	89.6			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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PROJECT COUNTY Richland

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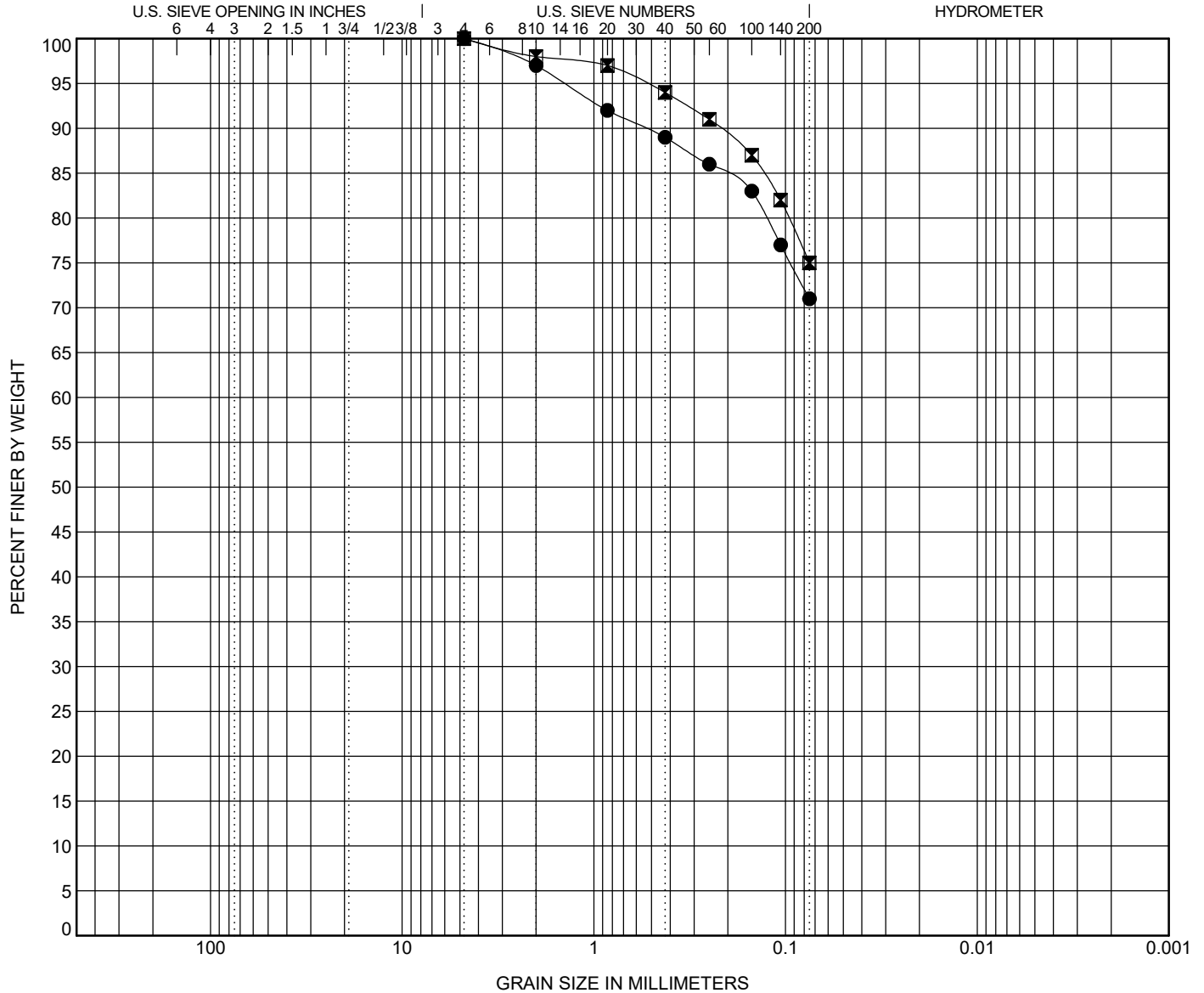


GRAIN SIZE DISTRIBUTION

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

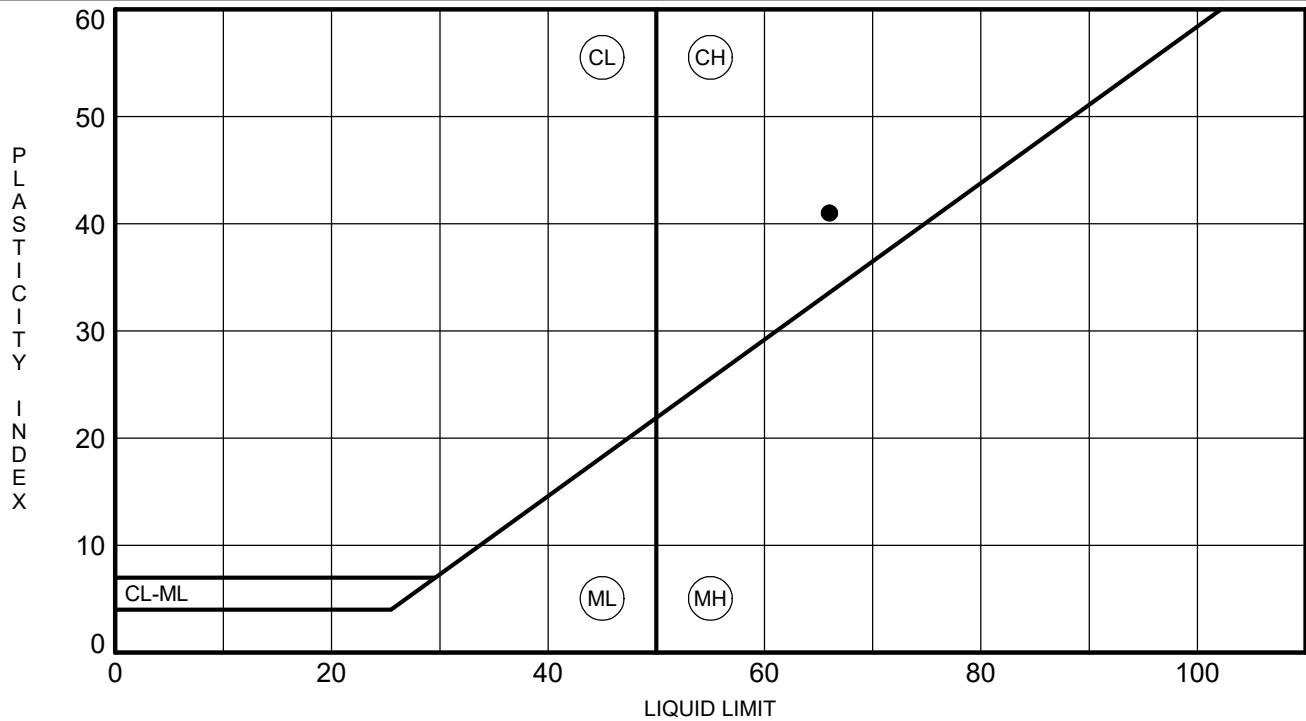
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-062	4.0	SILT with SAND(ML)					46	37	9		
☒ G-062	13.5	SILT with SAND(ML)					41	34	7		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-062	4.0	4.75				0.0	29.0	71.0			
☒ G-062	13.5	4.75				0.0	25.0	75.0			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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PROJECT COUNTY Richland

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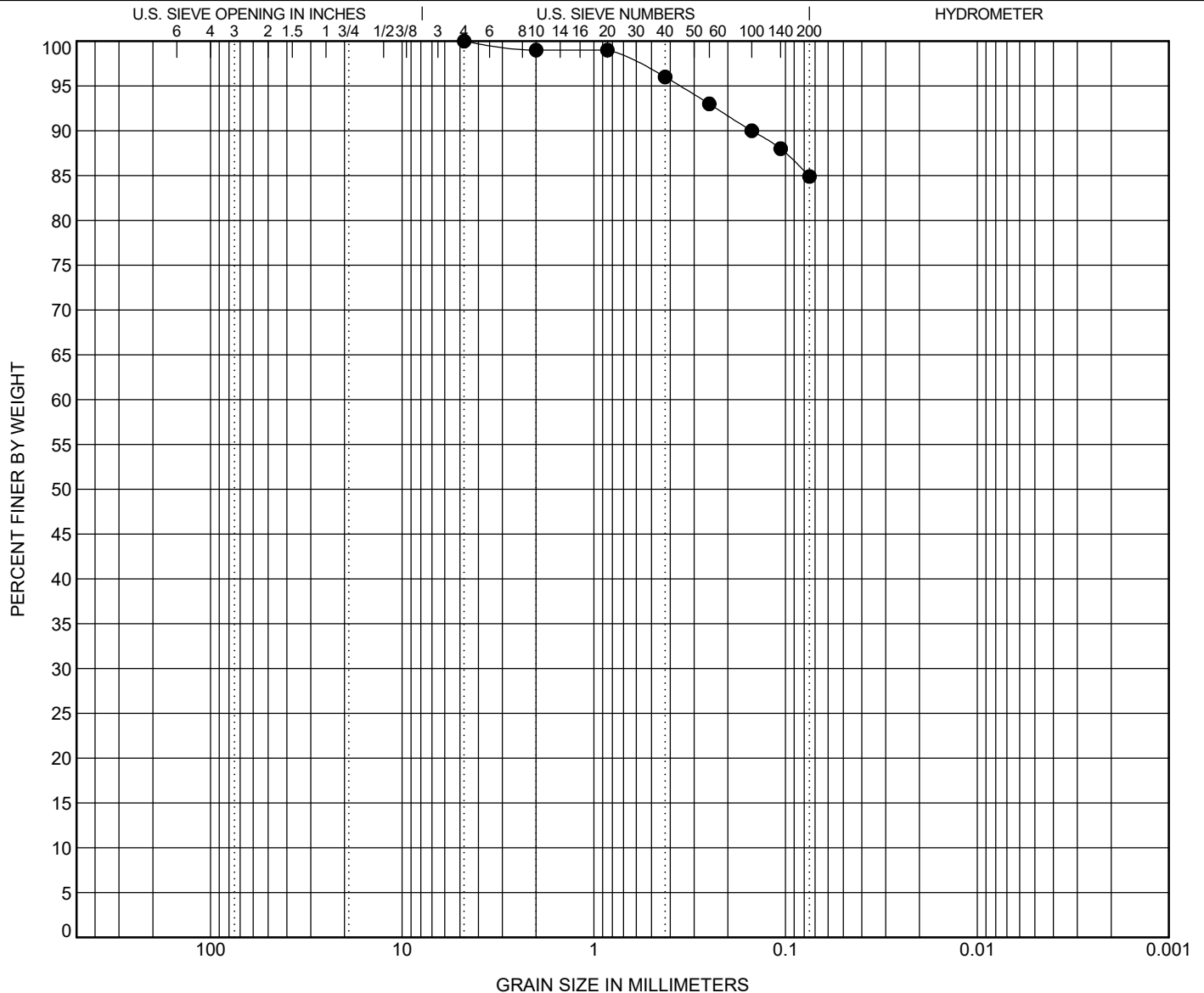


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-063	8.5	FAT CLAY with SAND(CH)					66	25	41		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-063	8.5	4.75				0.0	15.1	84.9			

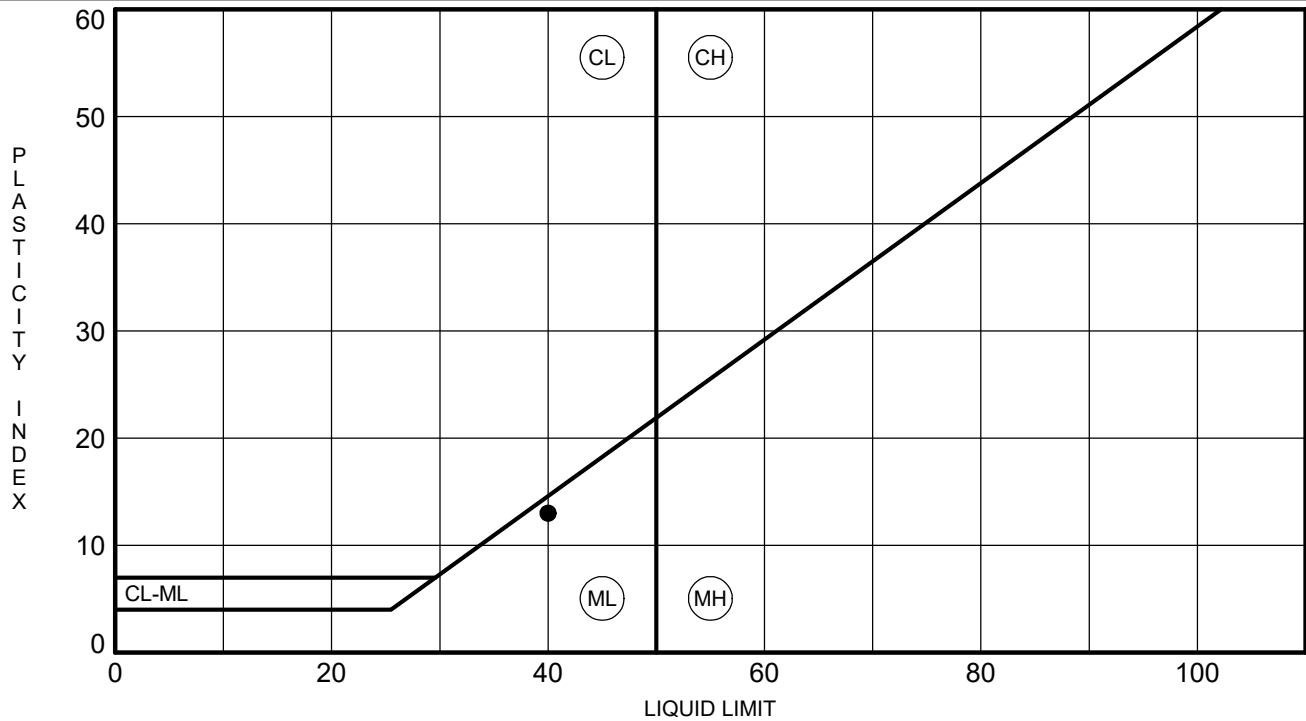
GRAIN SIZE 20-81_CCR2 ICE BH MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

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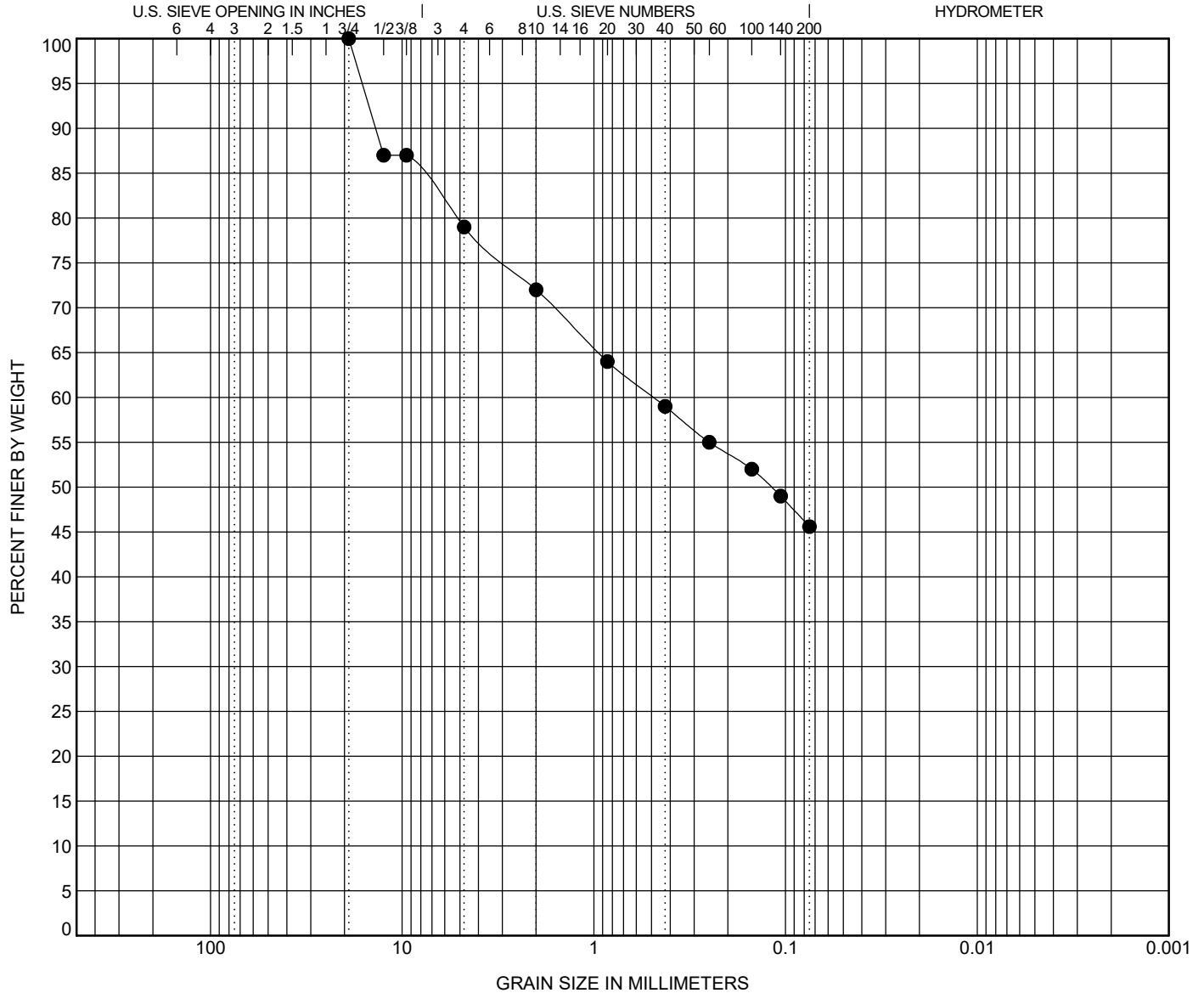


GRAIN SIZE DISTRIBUTION

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

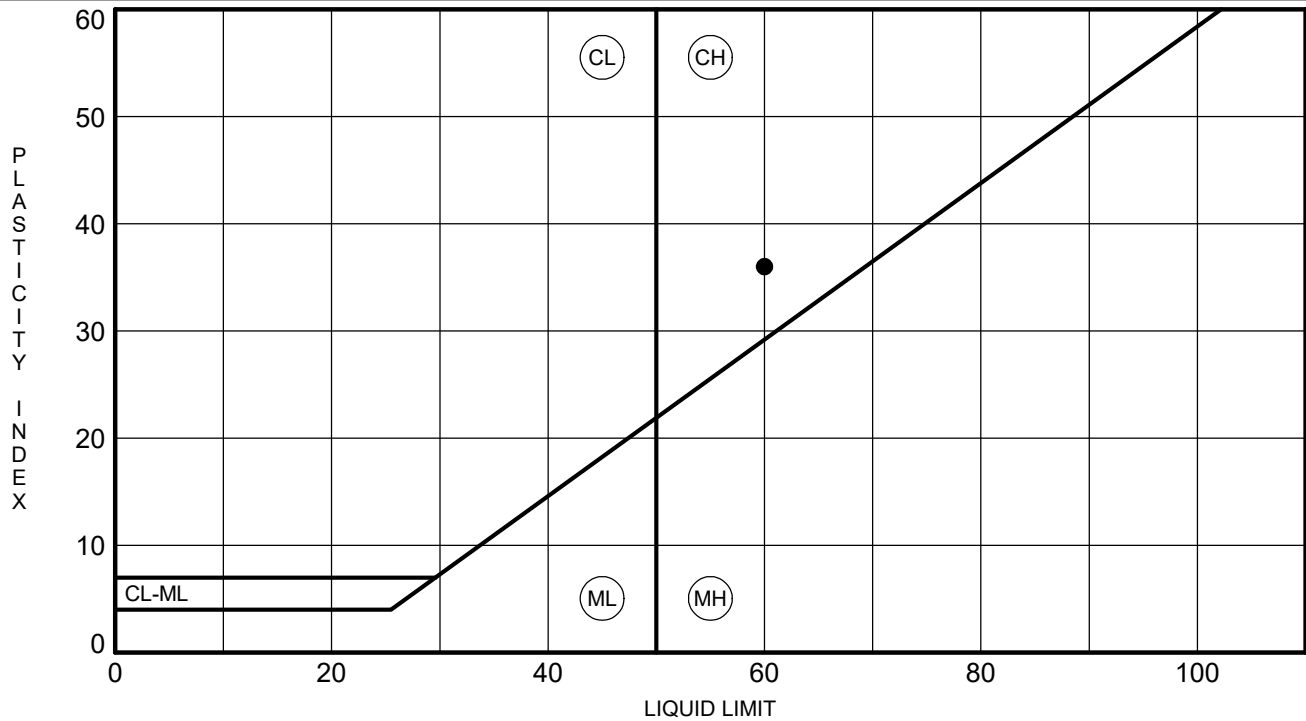
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-064	2.0	SILTY SAND with GRAVEL(SM)					40	27	13		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-064	2.0	19	0.488			21.0	33.4	45.6			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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PROJECT COUNTY Richland

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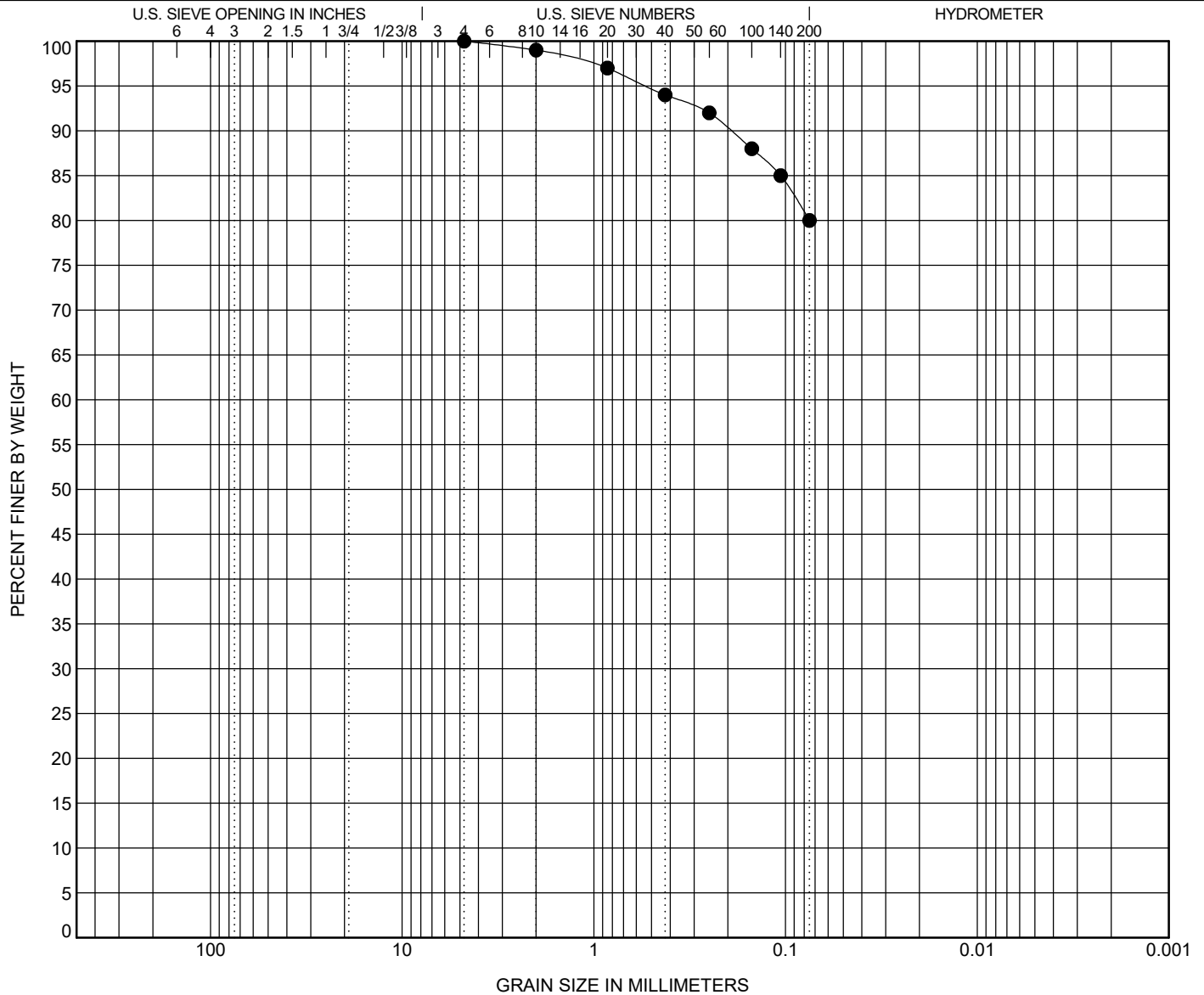


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-066	4.0	FAT CLAY with SAND(CH)					60	24	36		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-066	4.0	4.75				0.0	20.0	80.0			

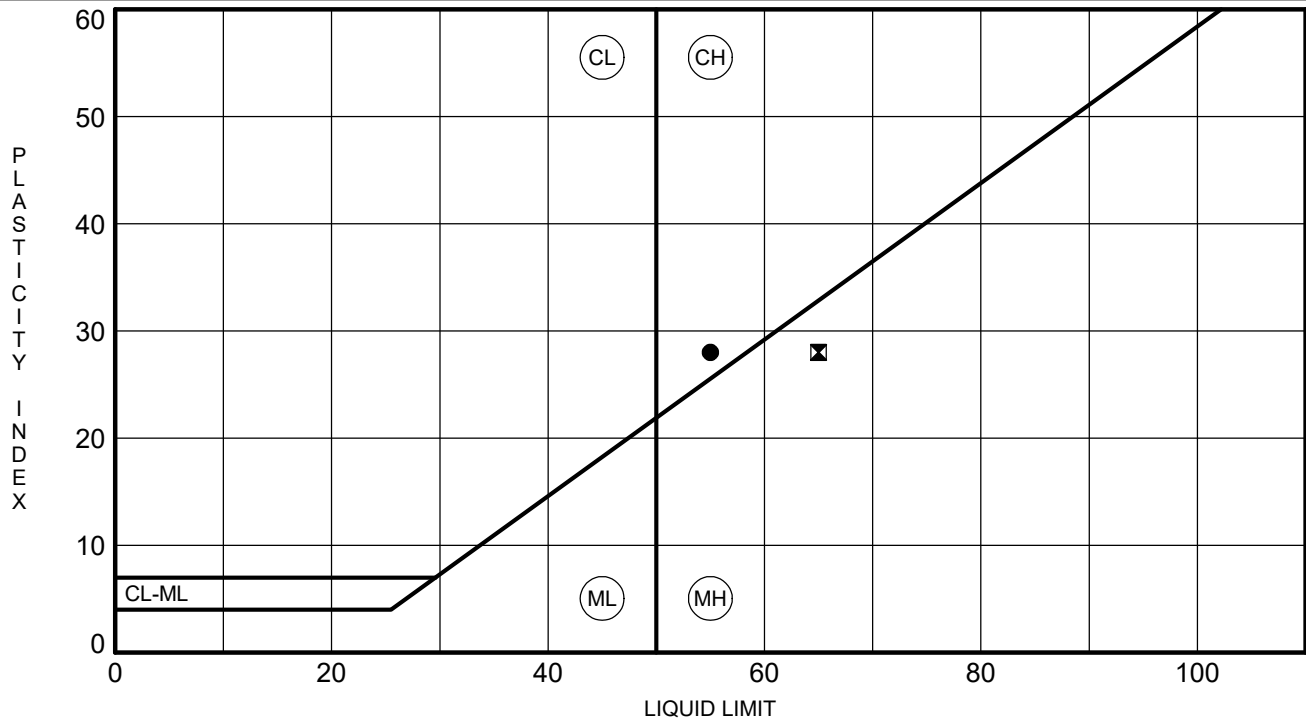
GRAIN SIZE 20-81_CCR2 ICE BH MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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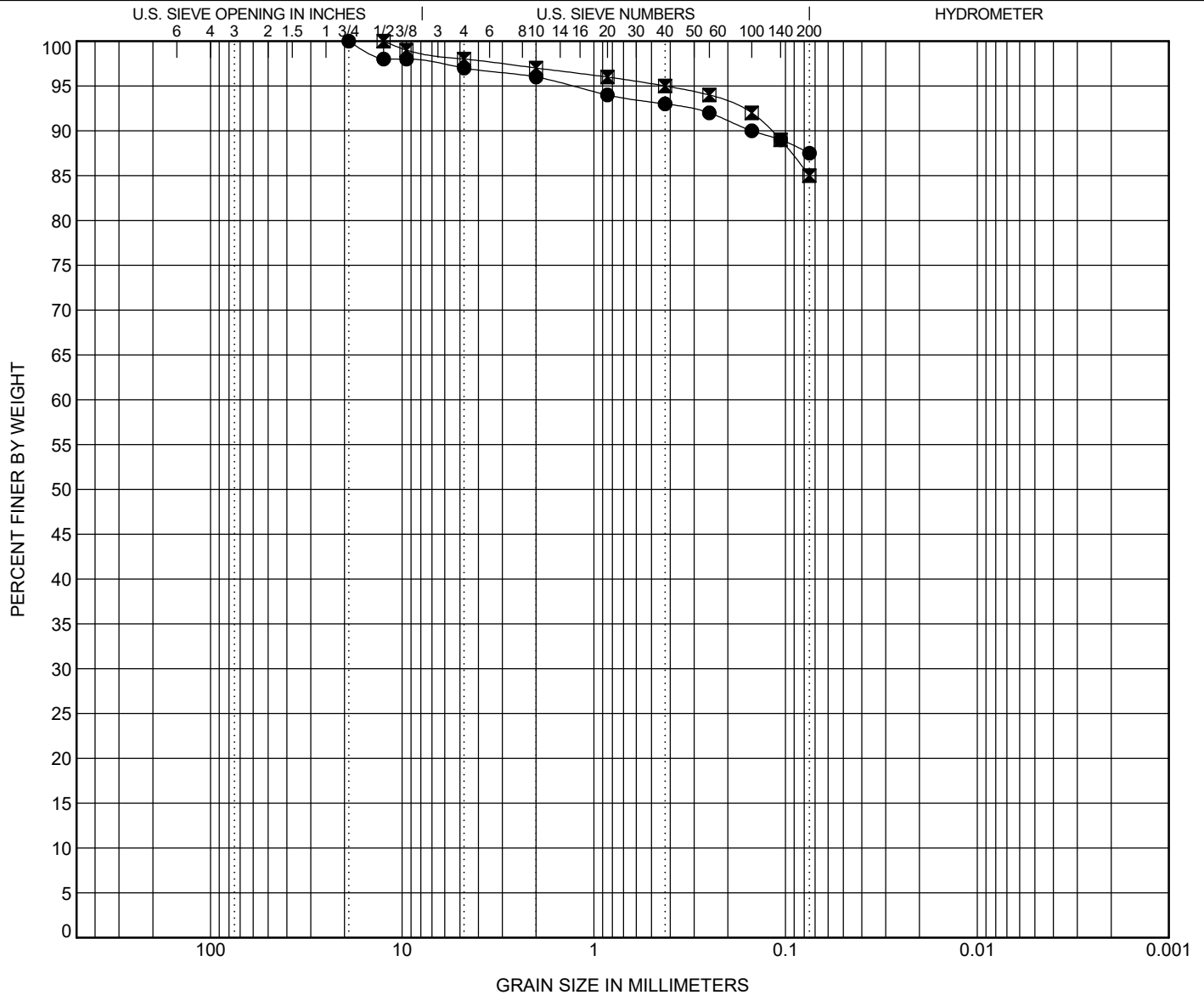


GRAIN SIZE DISTRIBUTION

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

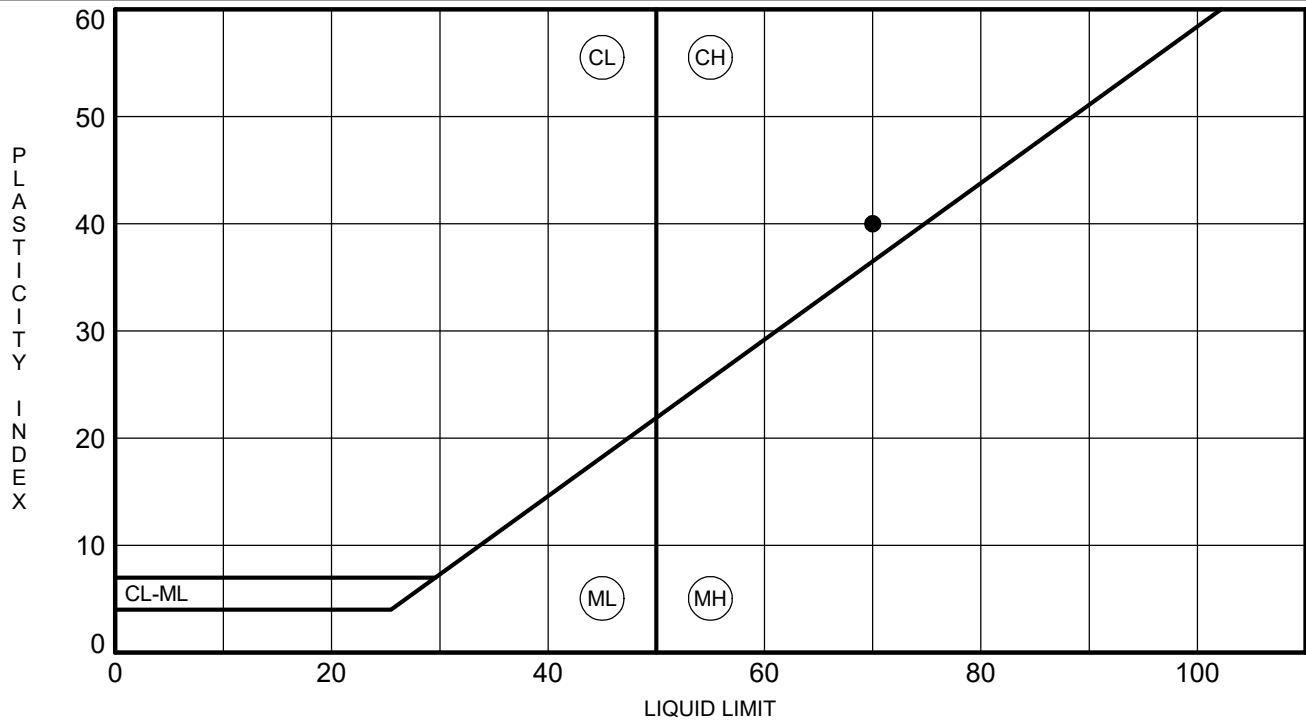
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-067	4.0	FAT CLAY(CH)					55	27	28		
☒ G-067	10.0	ELASTIC SILT with SAND(MH)					65	37	28		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-067	4.0	19				3.0	9.5	87.5			
☒ G-067	10.0	12.5				2.0	13.0	85.0			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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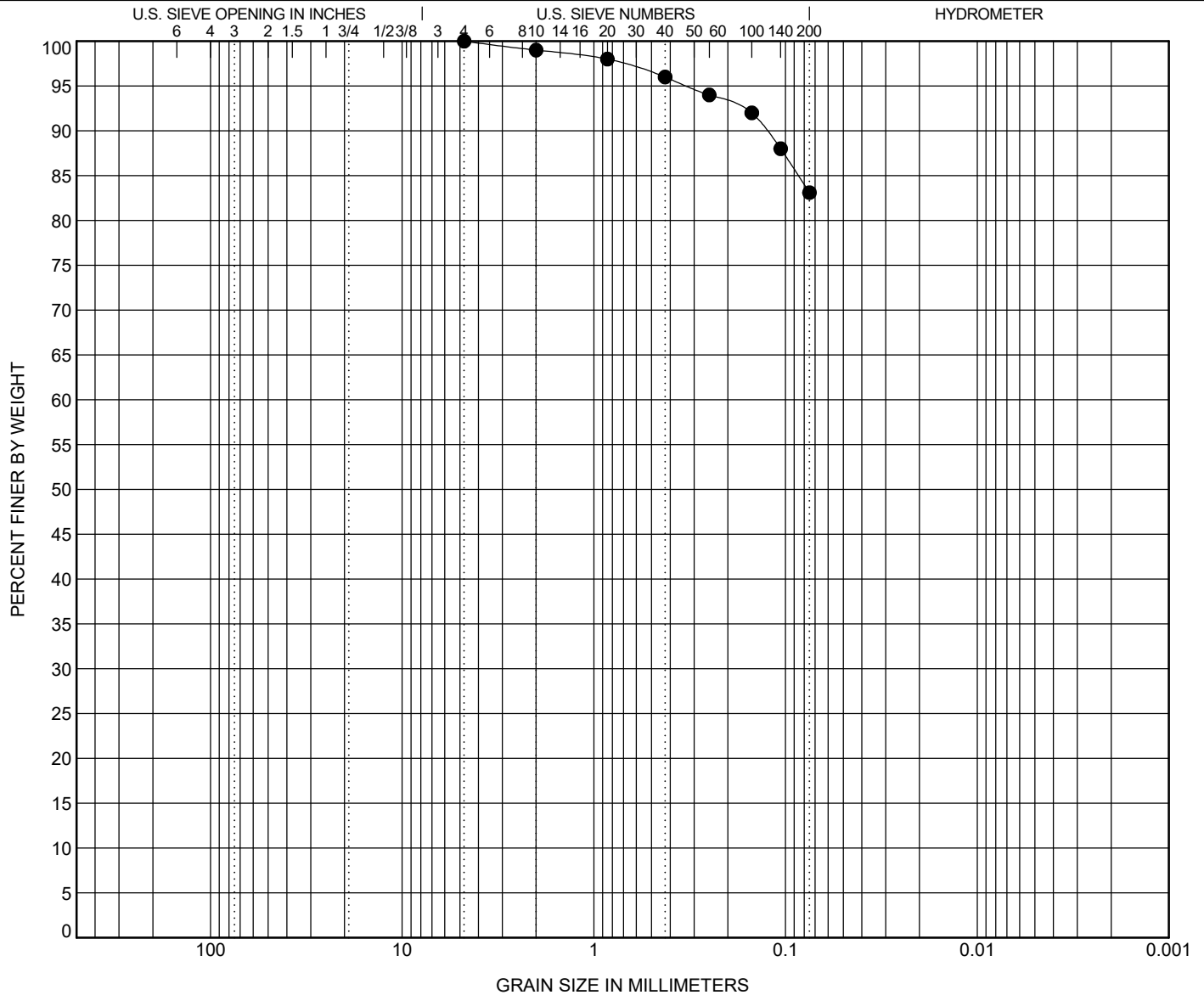


GRAIN SIZE DISTRIBUTION

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
G-068	10.0	FAT CLAY with SAND(CH)					70	30	40		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
G-068	10.0	4.75				0.0	16.9	83.1			

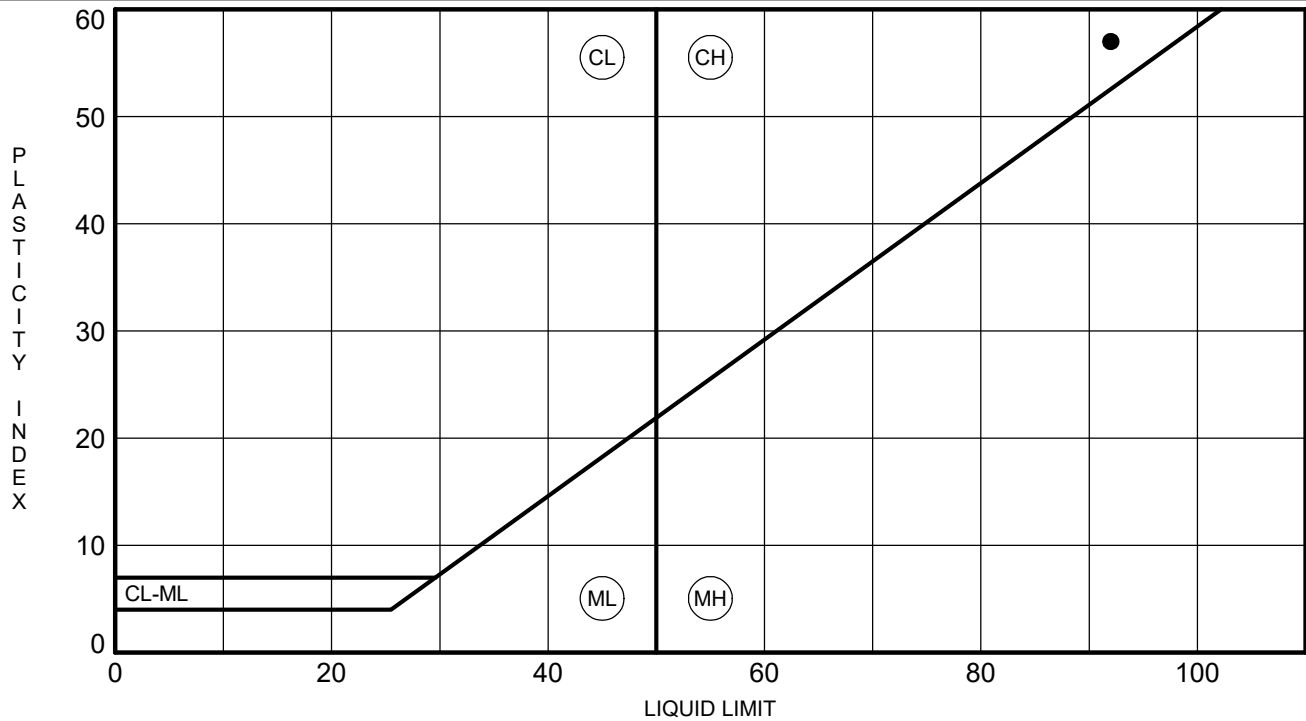
GRAIN SIZE 20-81_CCR2 ICE BH MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

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PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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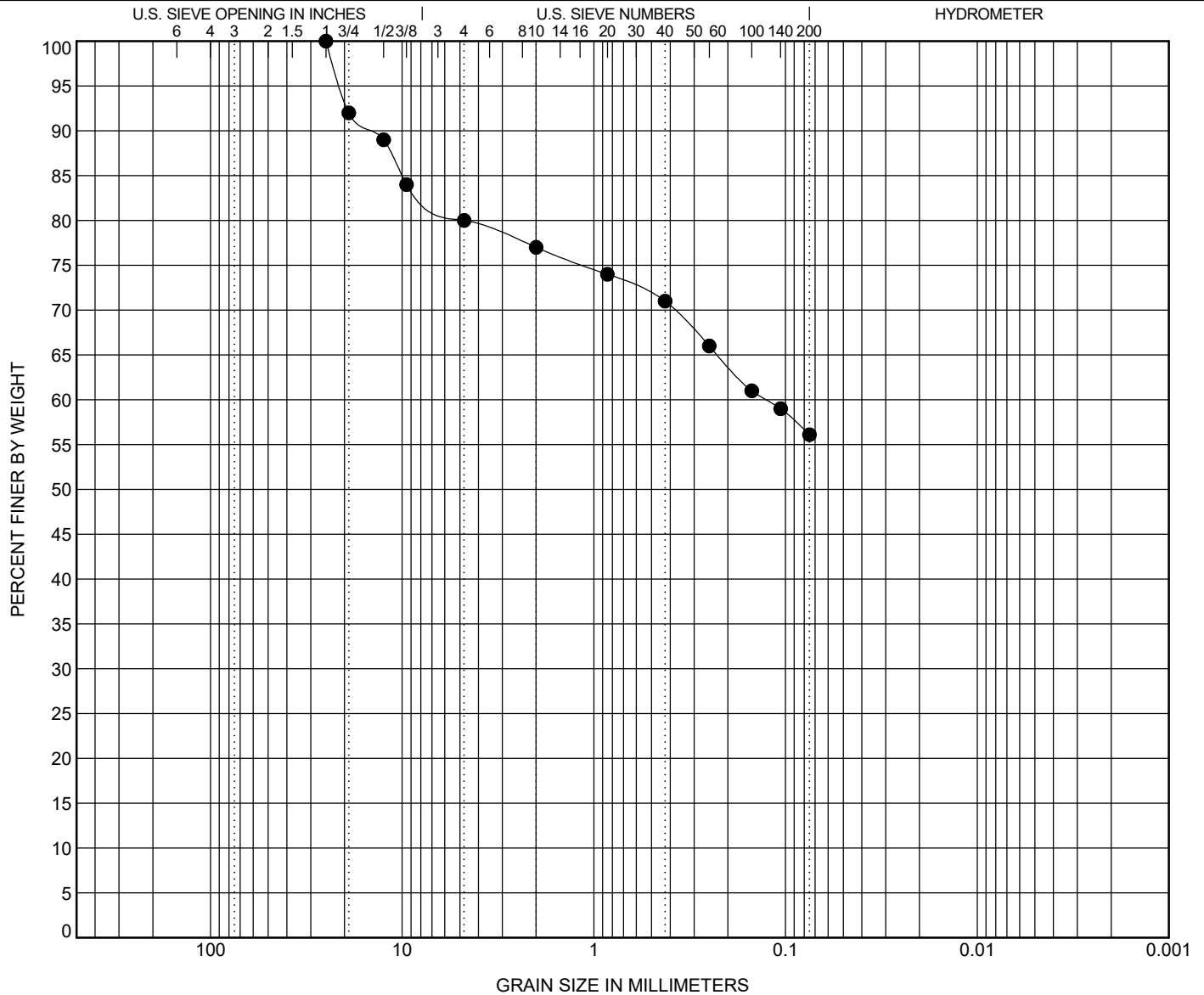


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

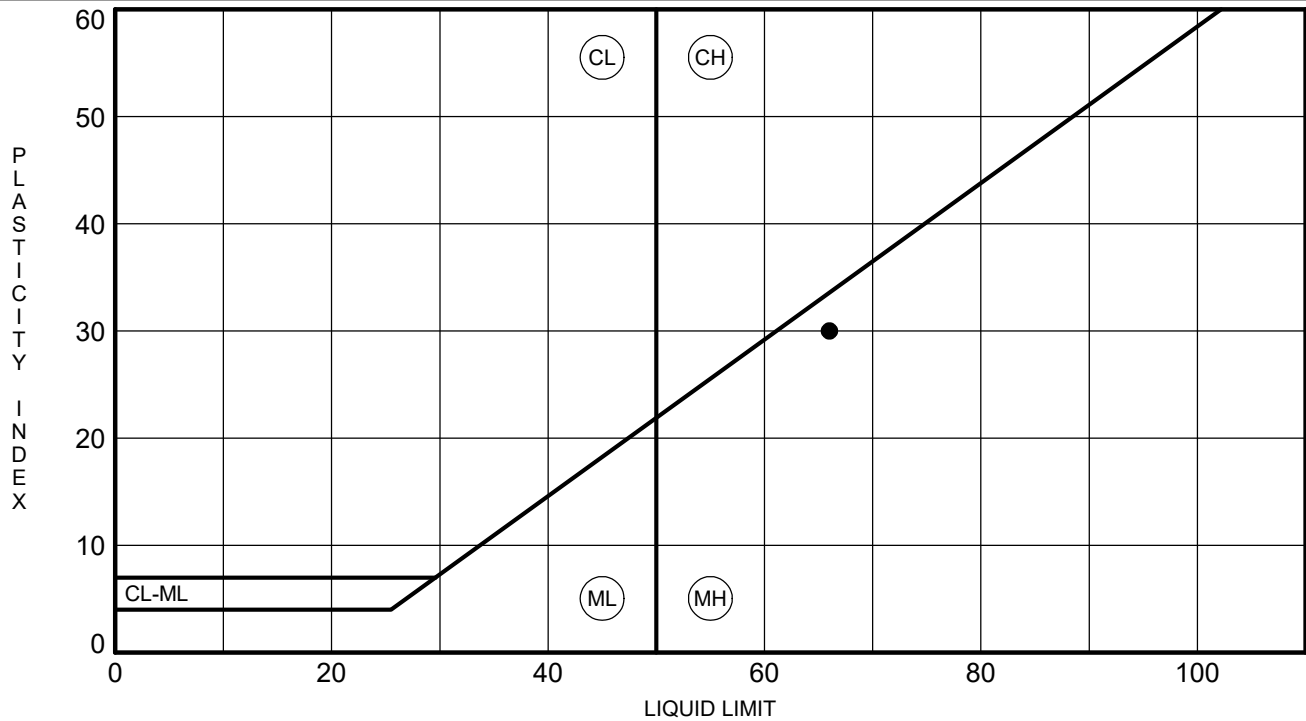
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-069	4.0	SANDY FAT CLAY with GRAVEL(CH)					92	35	57		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-069	4.0	25	0.126			20.0	23.9	56.1			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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PROJECT COUNTY Richland

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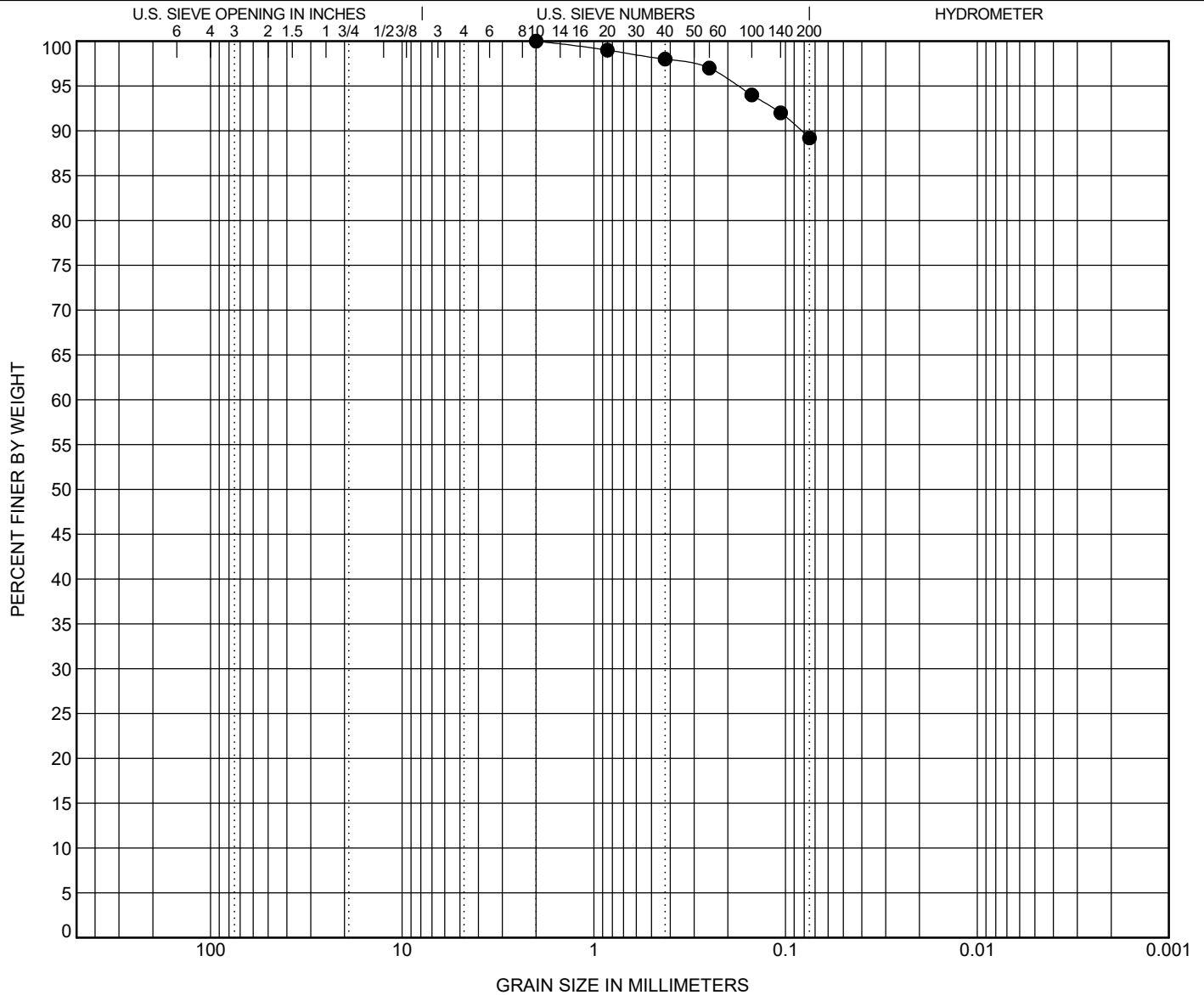


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

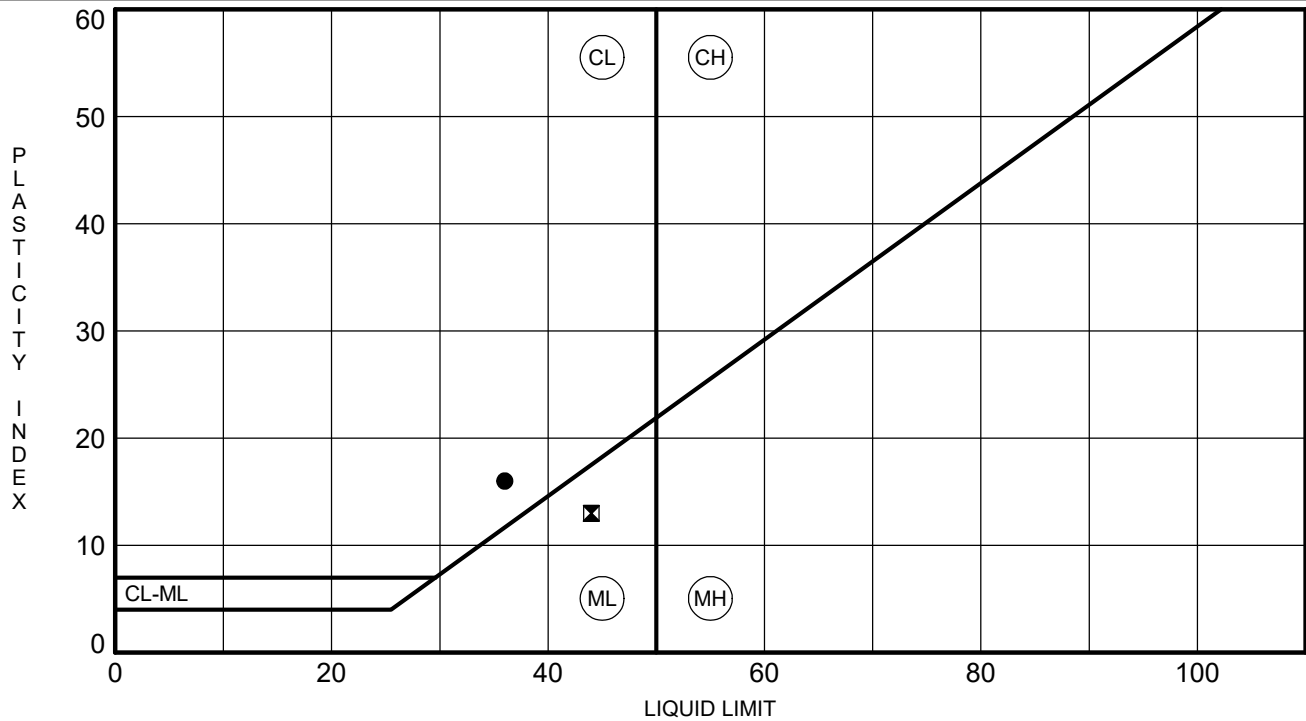
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
G-070	8.0	ELASTIC SILT(MH)					66	36	30		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
G-070	8.0	2				0.0	10.8	89.2			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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PROJECT COUNTY Richland

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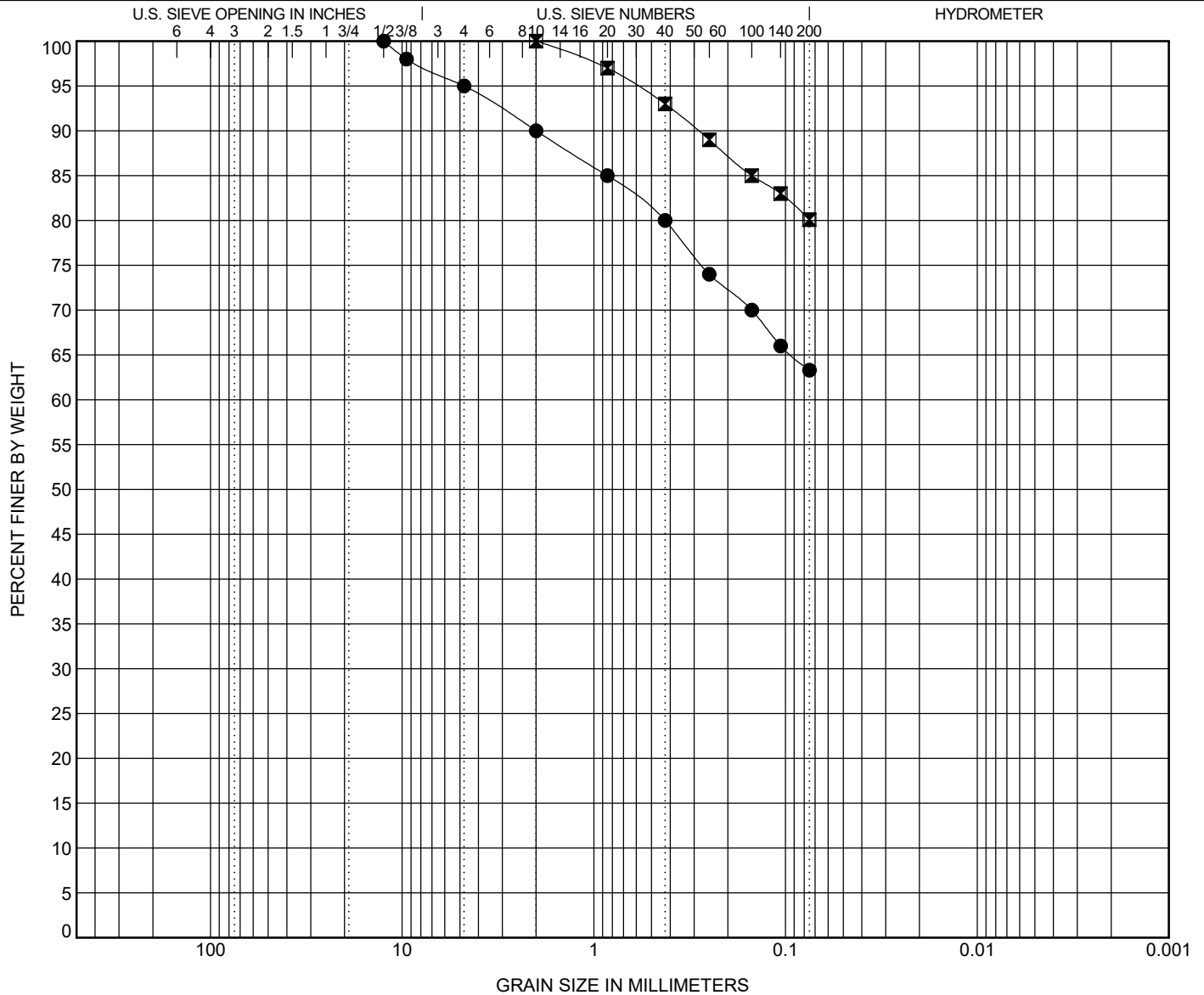


GRAIN SIZE DISTRIBUTION

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

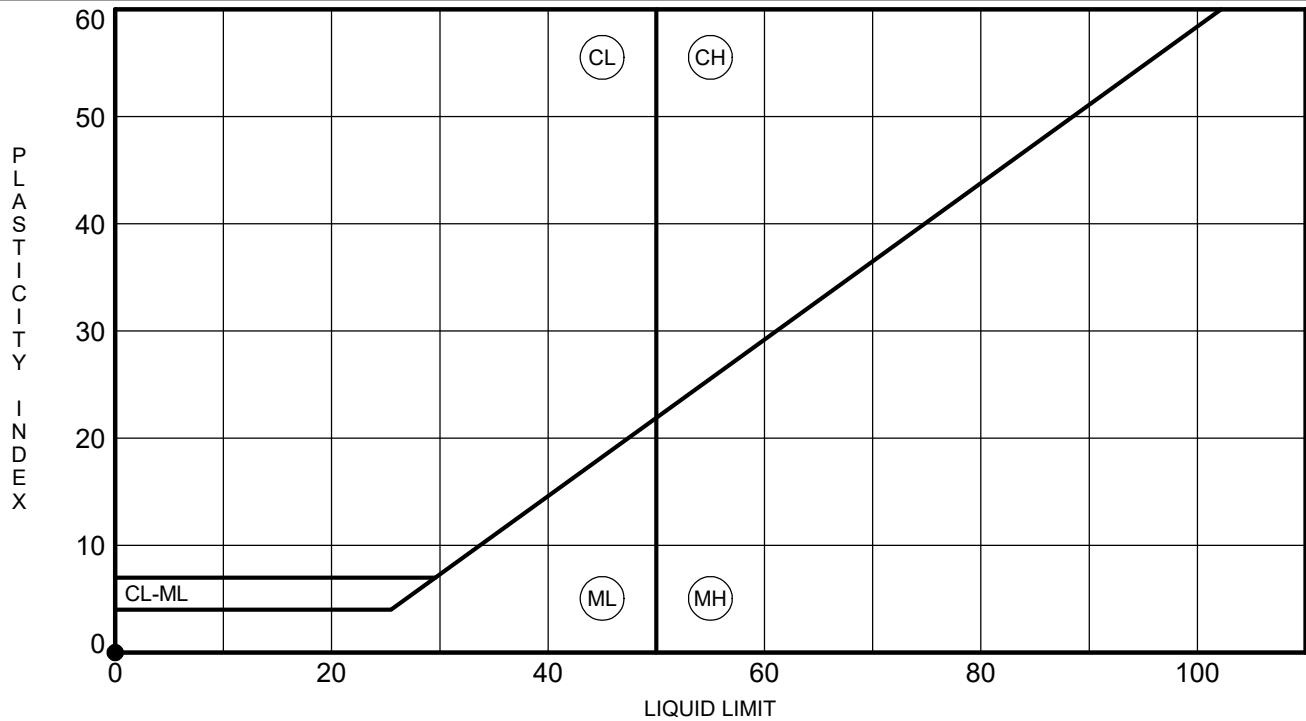
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-071	2.0	SANDY LEAN CLAY(CL)					36	20	16		
☒ G-071	8.0	SILT with SAND(ML)					44	31	13		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-071	2.0	12.5				5.0	31.7	63.3			
☒ G-071	8.0	2				0.0	19.9	80.1			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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PROJECT COUNTY Richland

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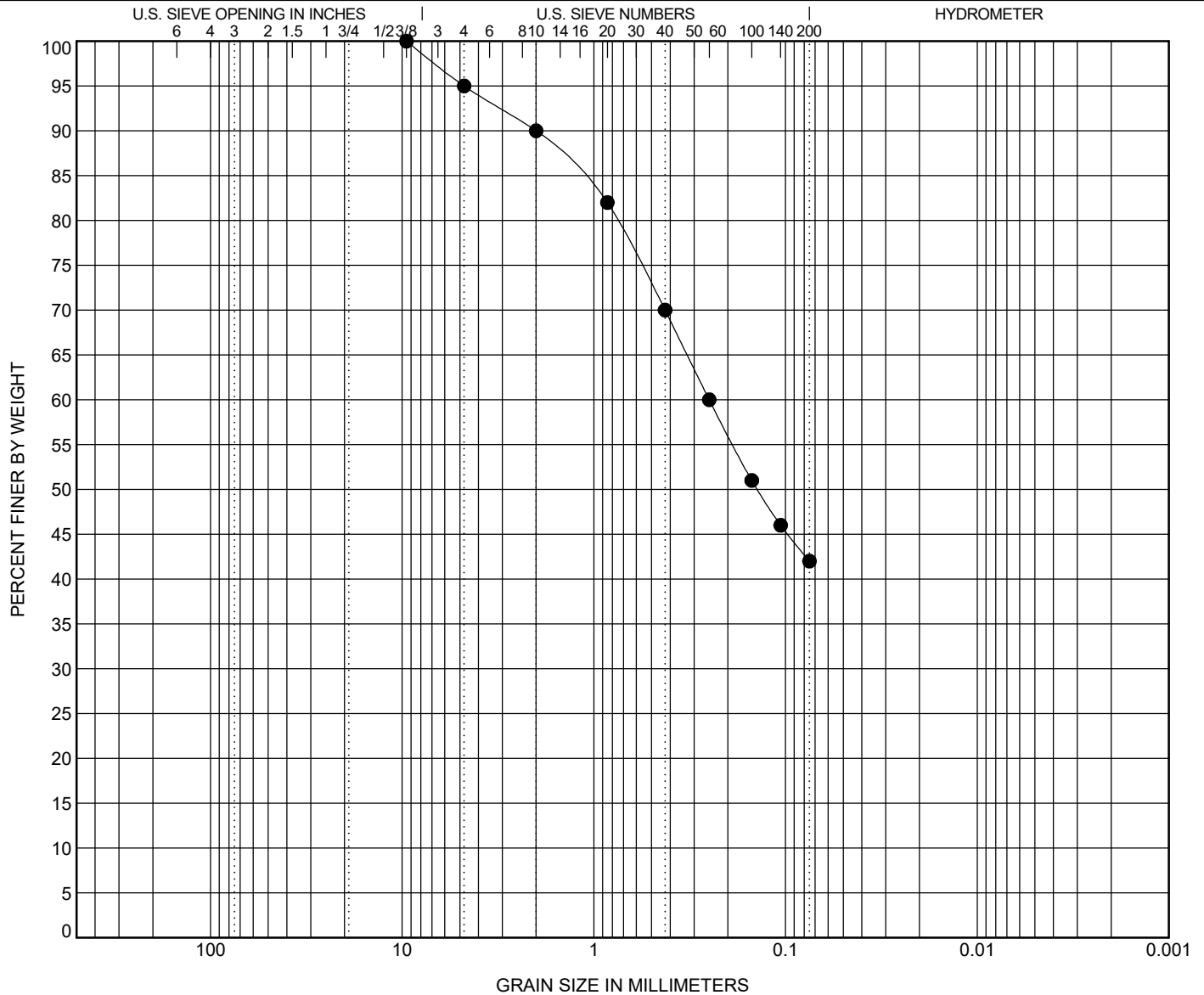


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

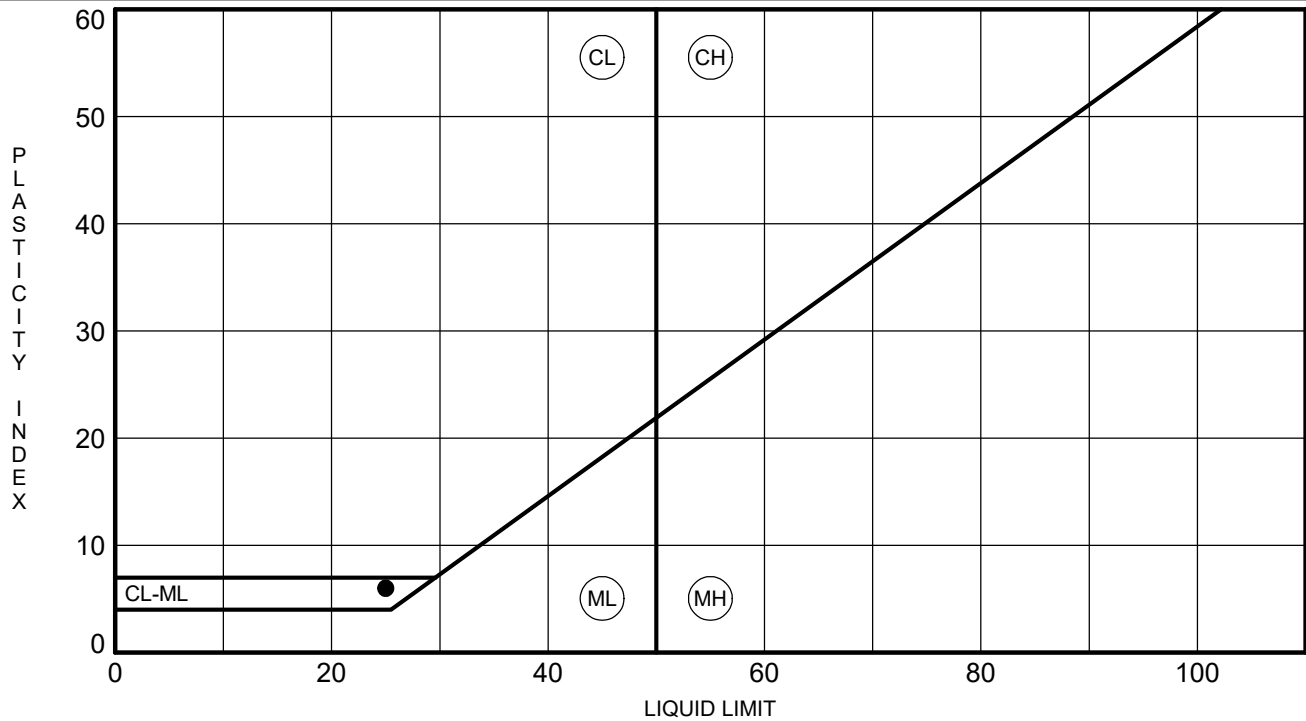
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-072	2.0	SILTY SAND(SM)					NP	NP	NP		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-072	2.0	9.5	0.25			5.0	53.0	42.0			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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PROJECT COUNTY Richland

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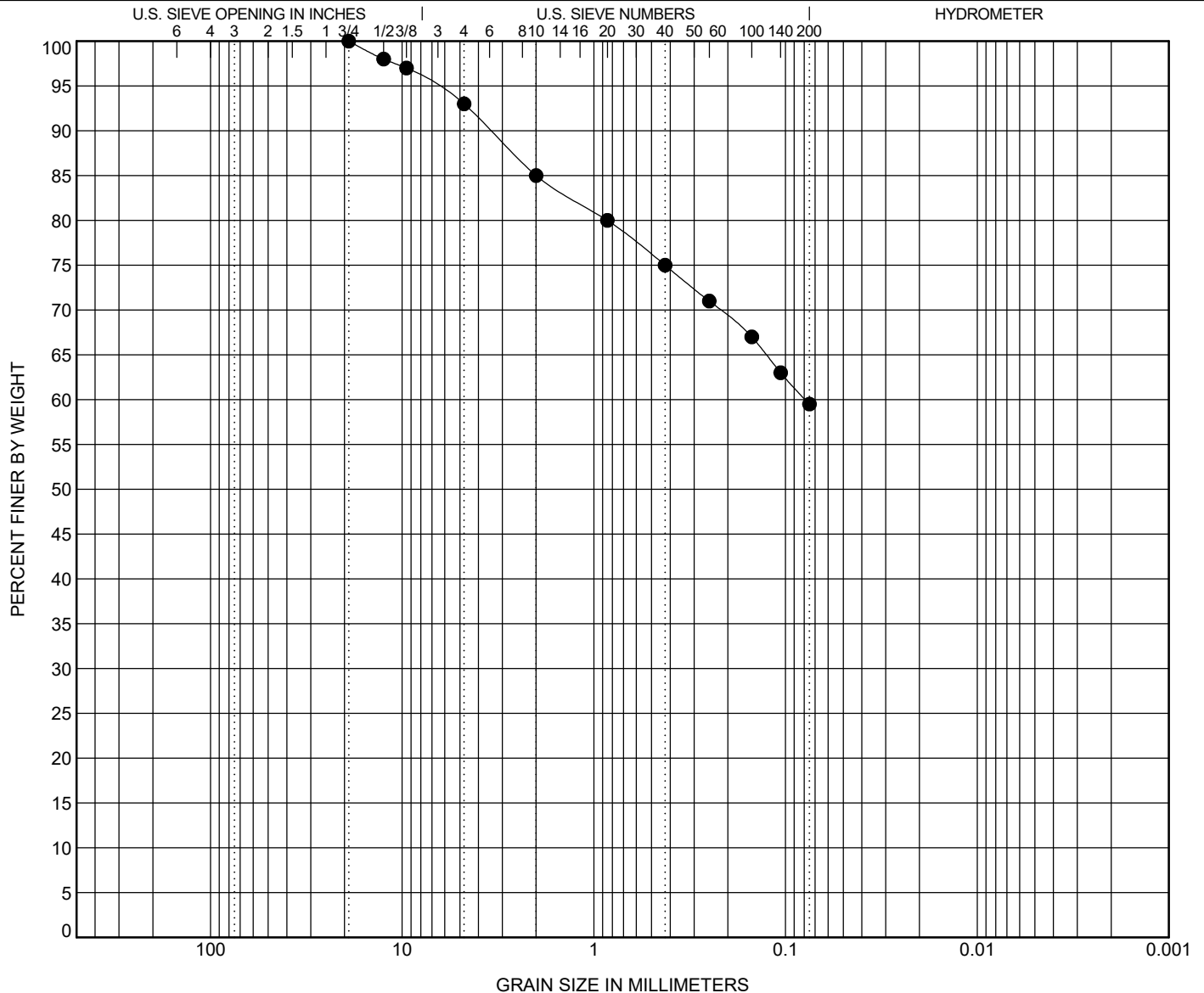


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-073	2.0	SANDY SILTY CLAY(CL-ML)					25	19	6		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-073	2.0	19	0.079			7.0	33.5	59.5			

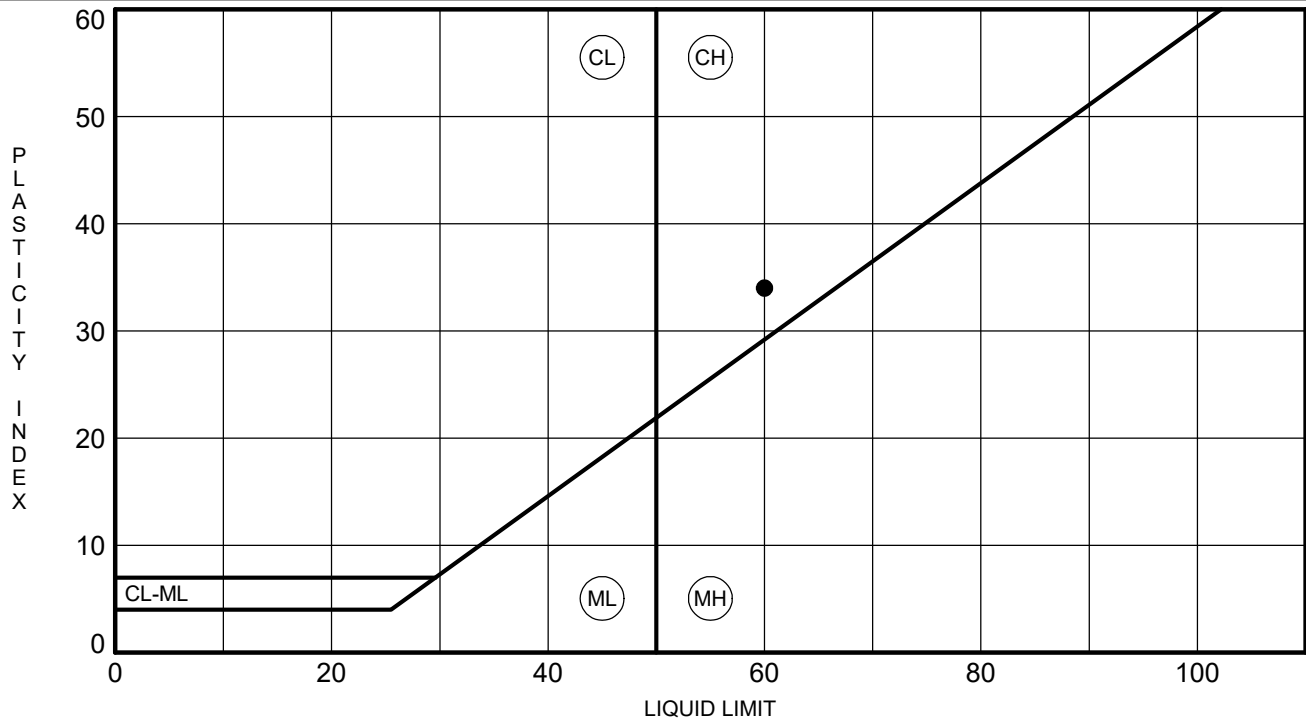
GRAIN SIZE 20-81_CCR2 ICE BH MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

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PROJECT COUNTY Richland

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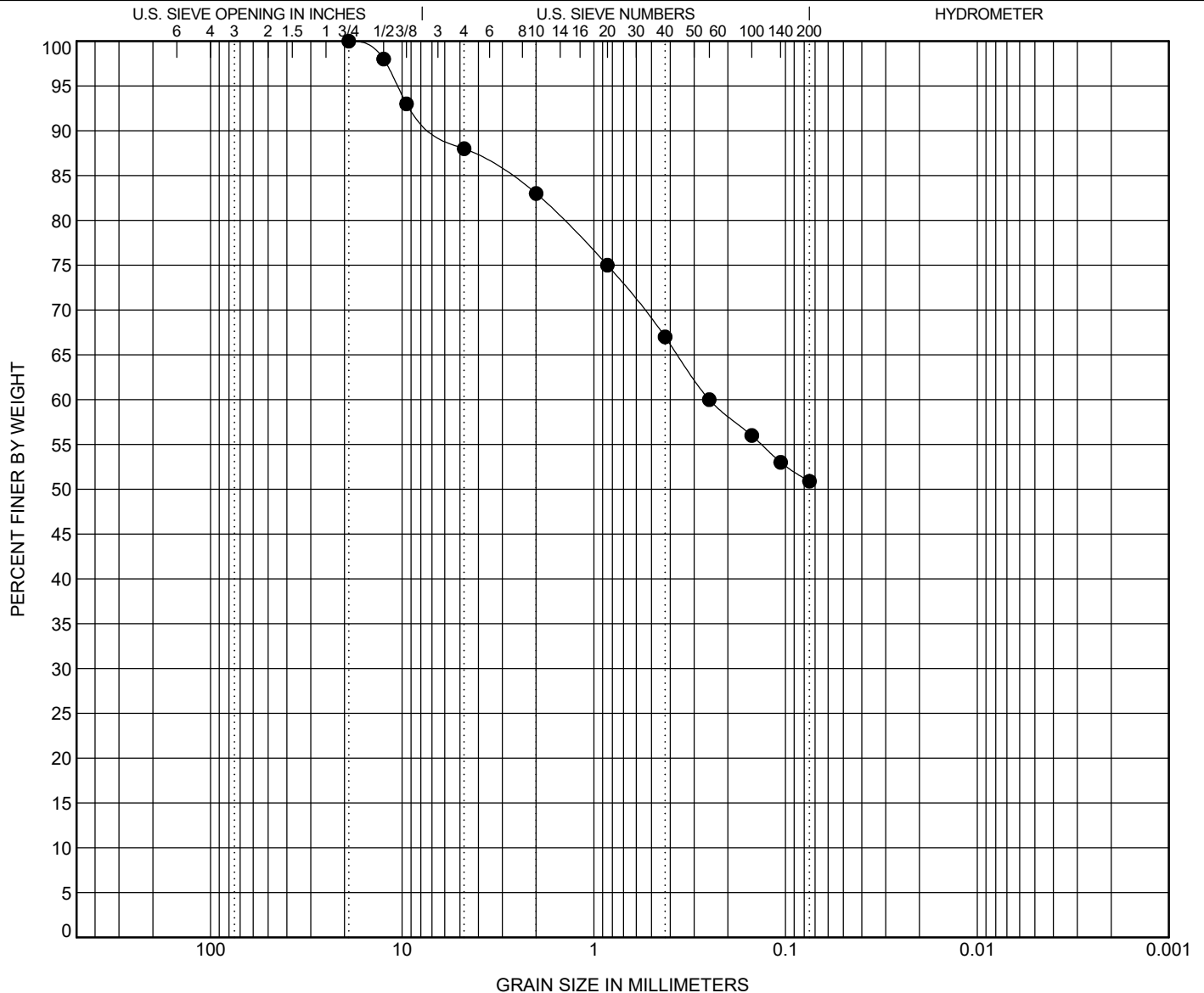


GRAIN SIZE DISTRIBUTION

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

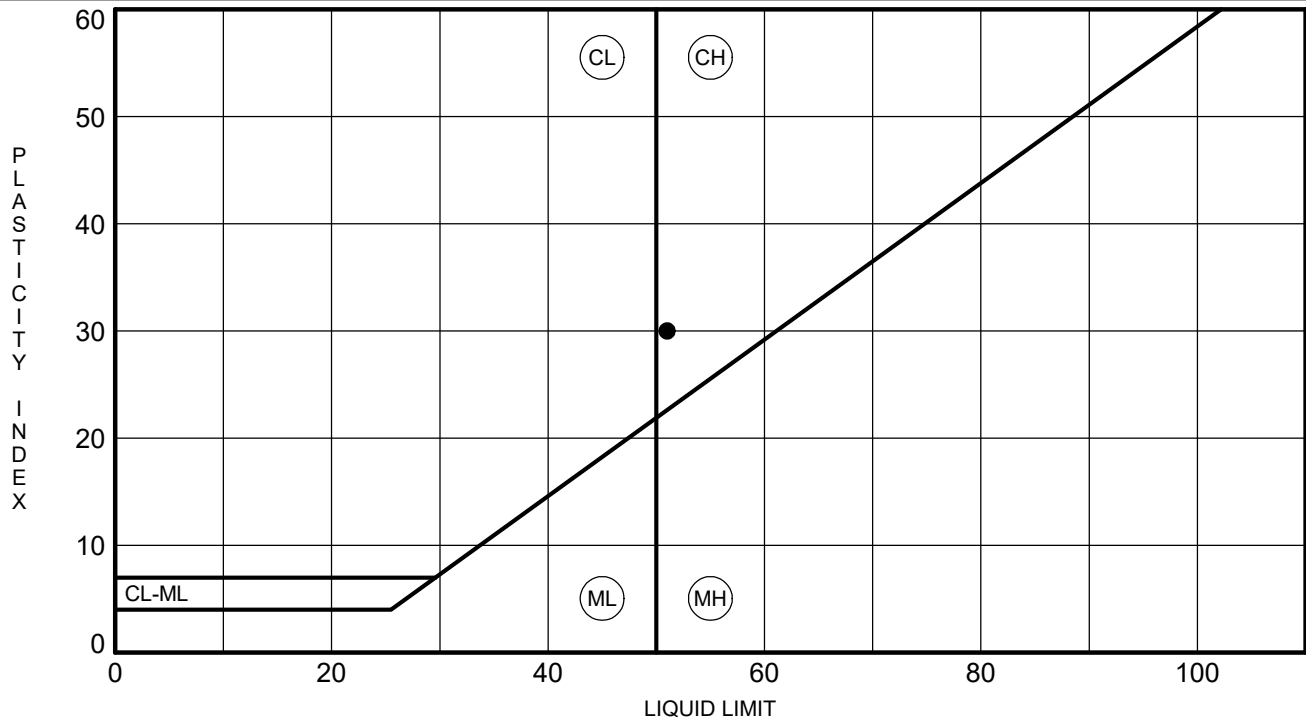
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-074	2.0	SANDY FAT CLAY(CH)					60	26	34		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-074	2.0	19	0.25			12.0	37.1	50.9			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

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PROJECT COUNTY Richland

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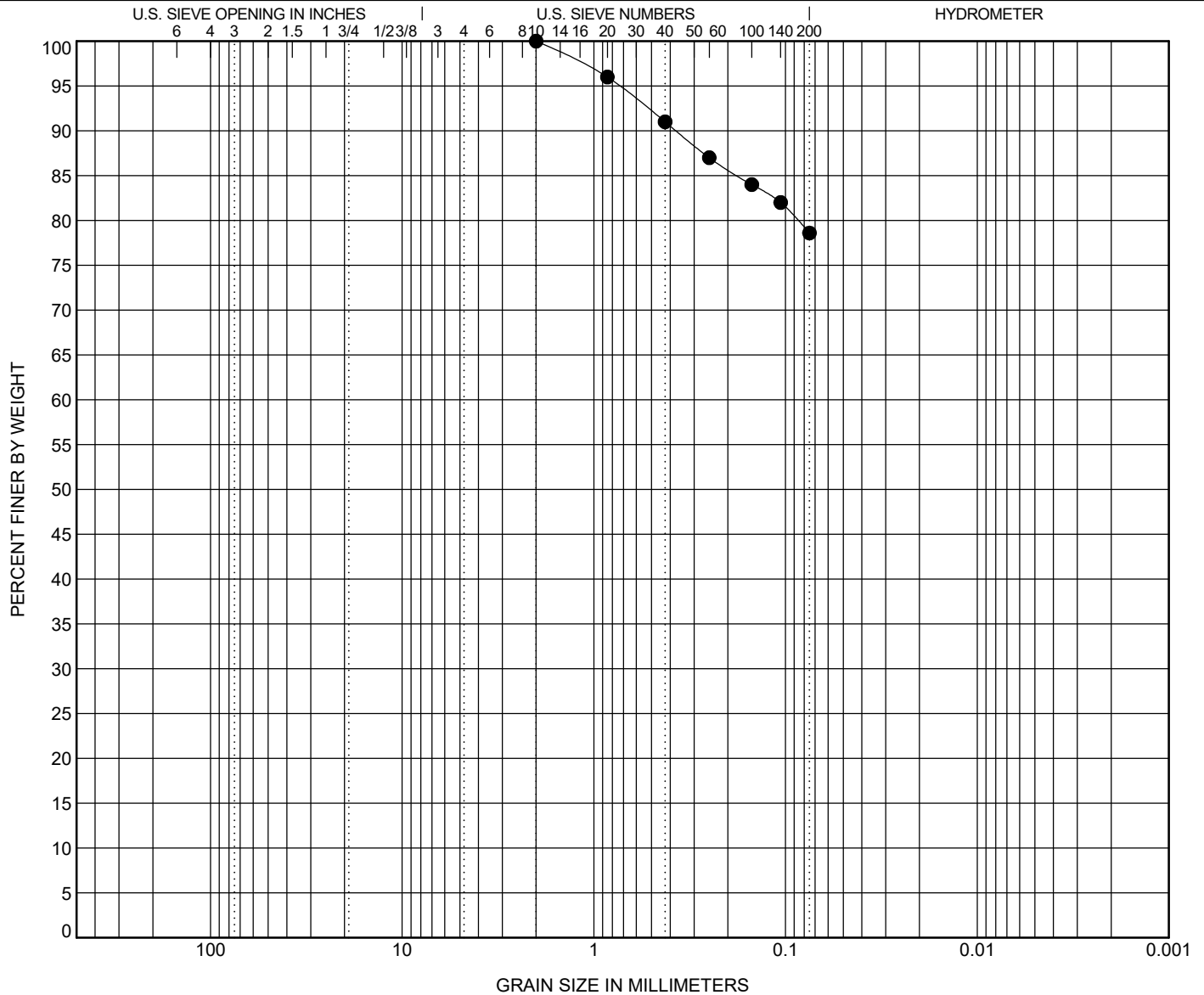


GRAIN SIZE DISTRIBUTION

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-076	2.0	FAT CLAY with SAND(CH)					51	21	30		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-076	2.0	2				0.0	21.4	78.6			

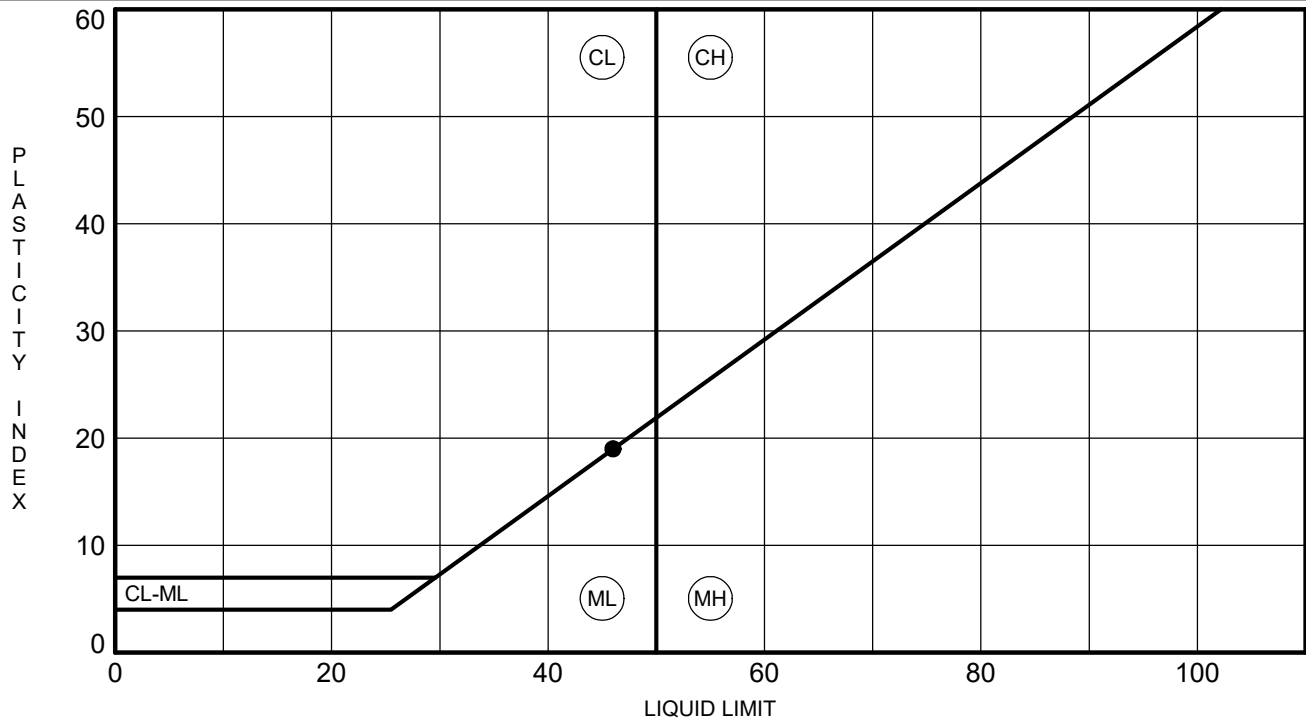
GRAIN SIZE 20-81_CCR2 ICE BH MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

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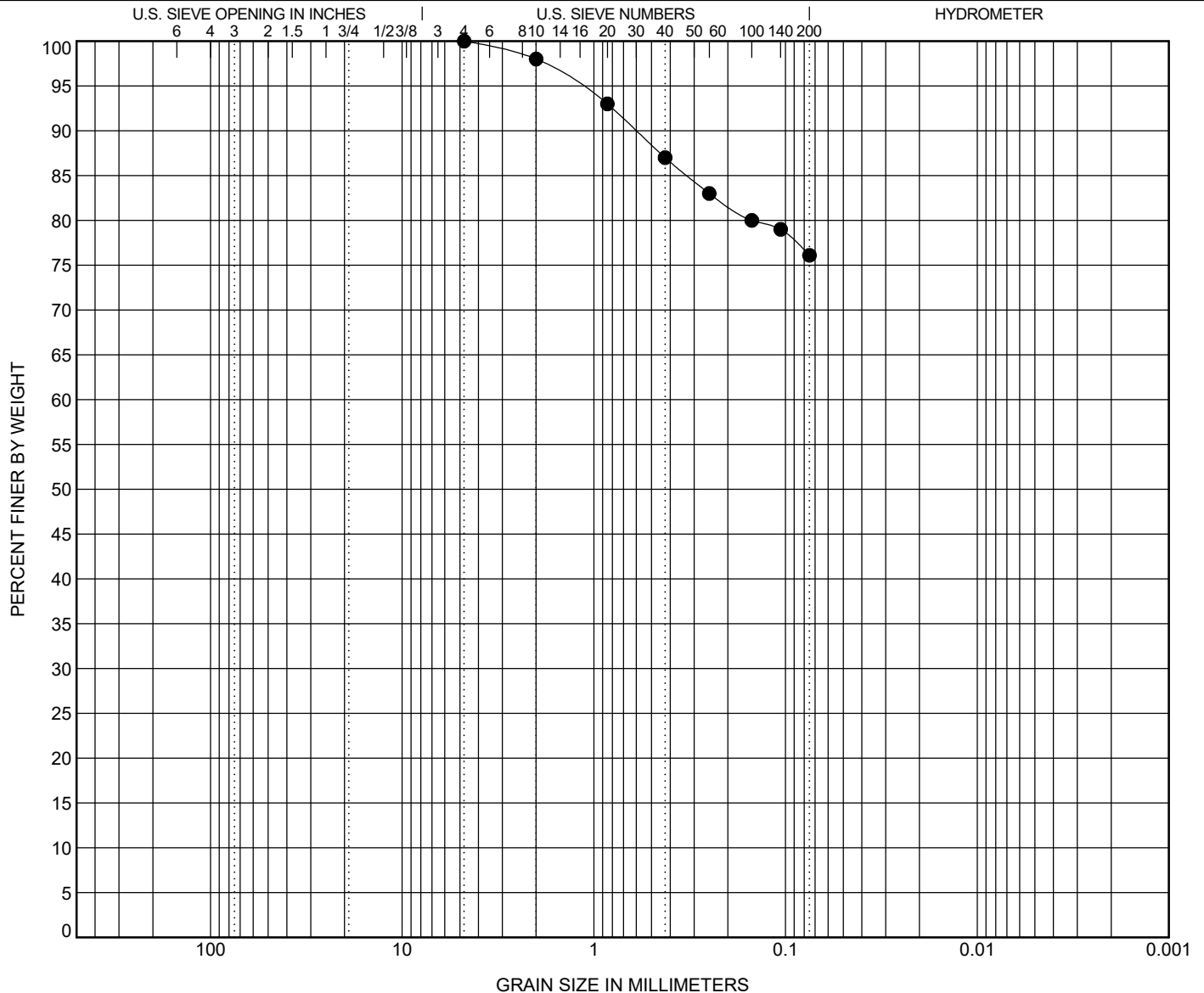


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-077	2.0	LEAN CLAY with SAND(CL)					46	27	19		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-077	2.0	4.75				0.0	23.9	76.1			

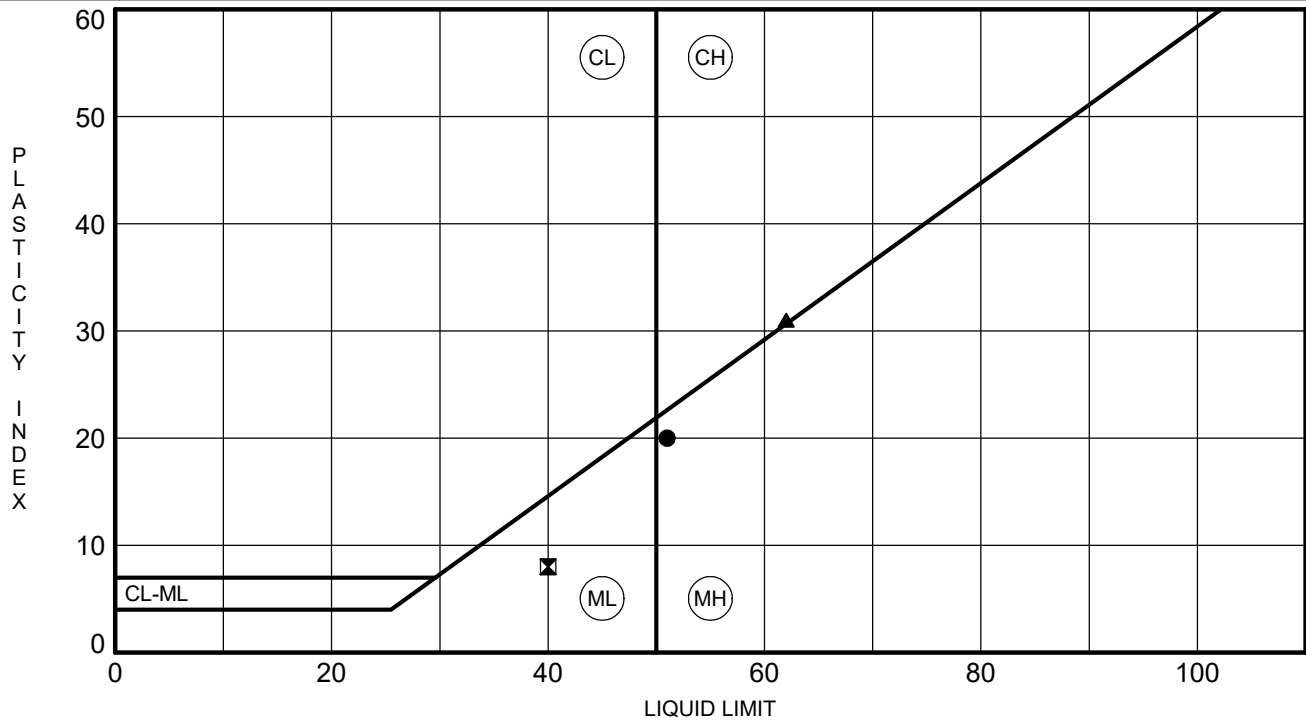
GRAIN SIZE 20-81_CCR2 ICE BH MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

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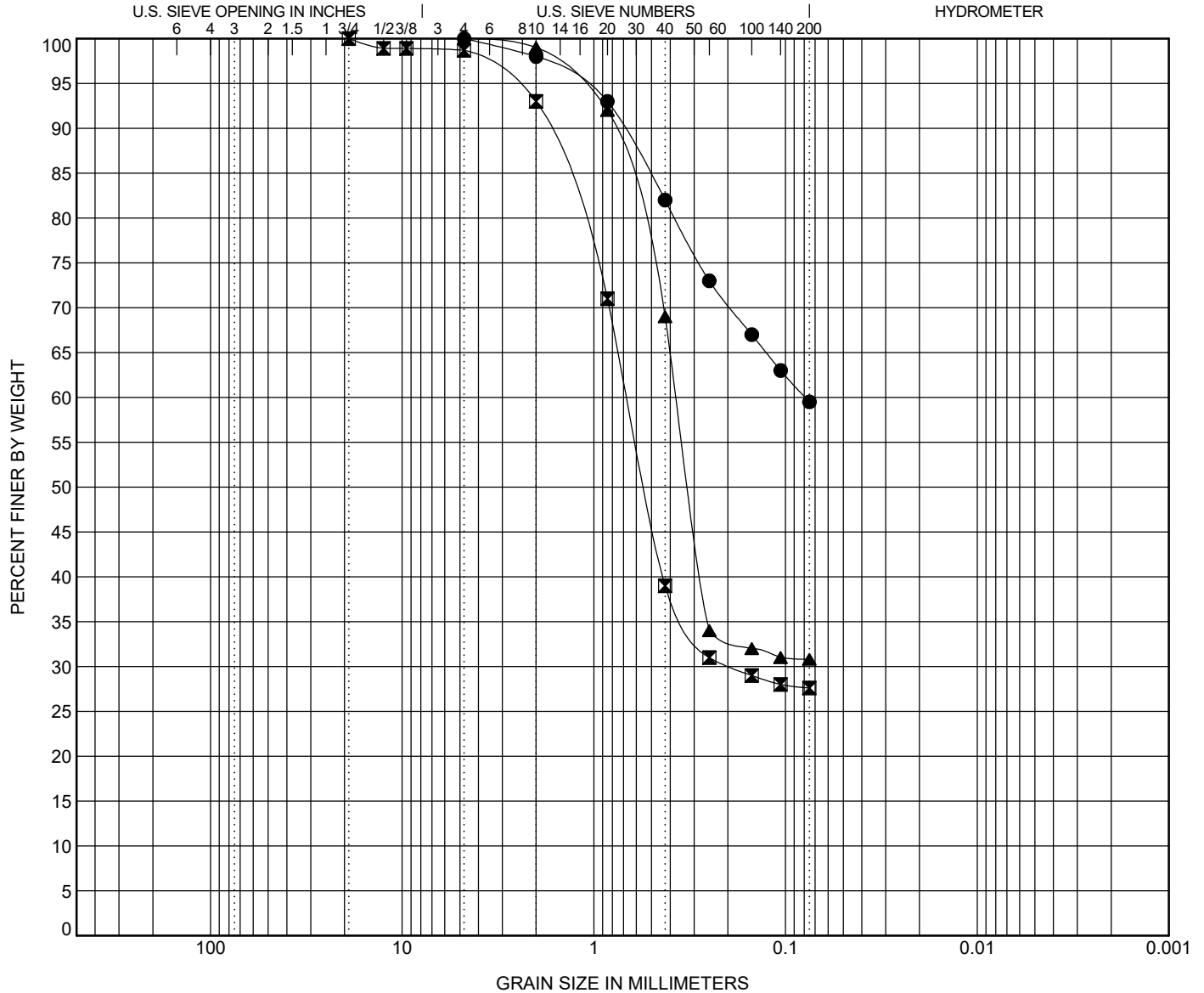


GRAIN SIZE DISTRIBUTION

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PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

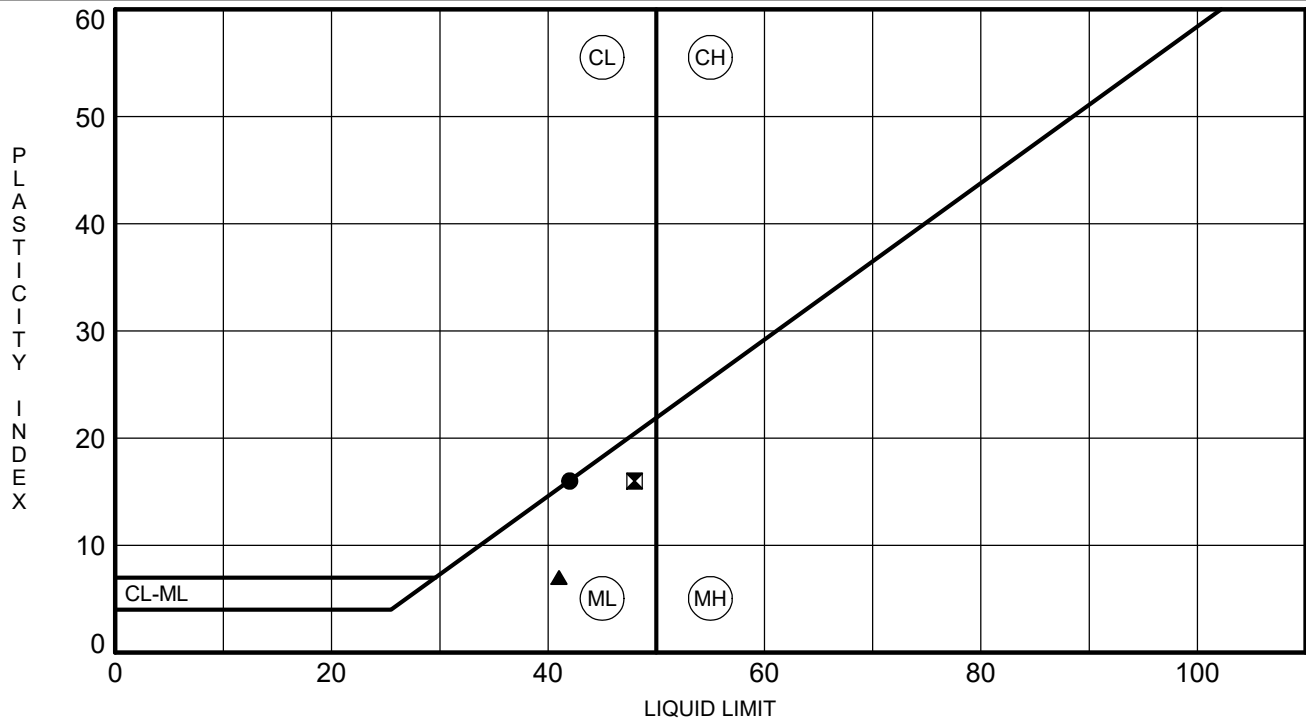
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-081	4.0	SANDY ELASTIC SILT(MH)					51	31	20		
☒ G-081	24.3	SILTY SAND(SM)					40	32	8		
▲ G-081	29.3	CLAYEY SAND(SC)					62	31	31		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-081	4.0	4.75	0.079			0.0	40.5	59.5			
☒ G-081	24.3	19	0.67	0.194		1.3	71.1	27.6			
▲ G-081	29.3	4.75	0.371			0.0	69.2	30.8			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

[illegible]

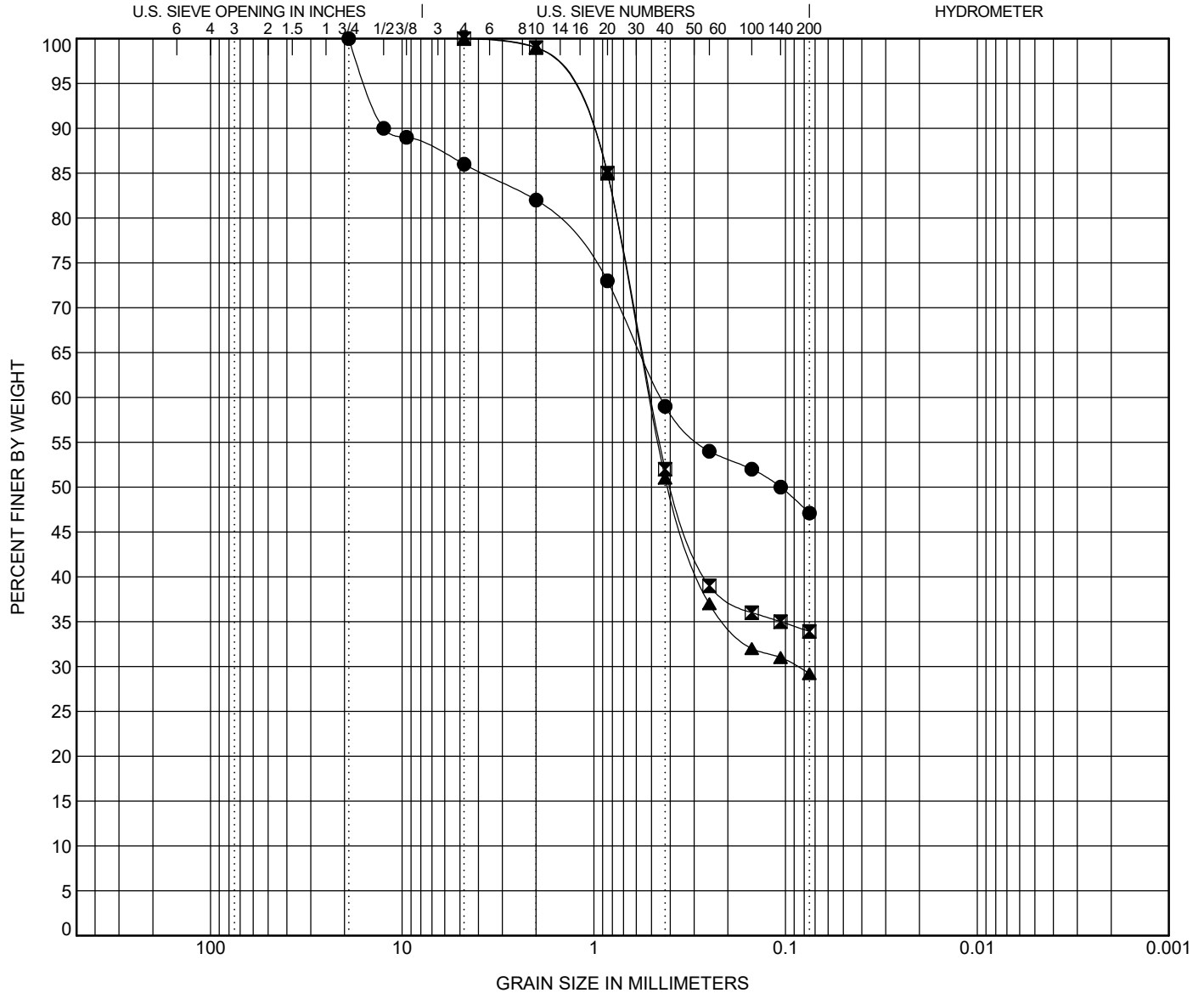


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

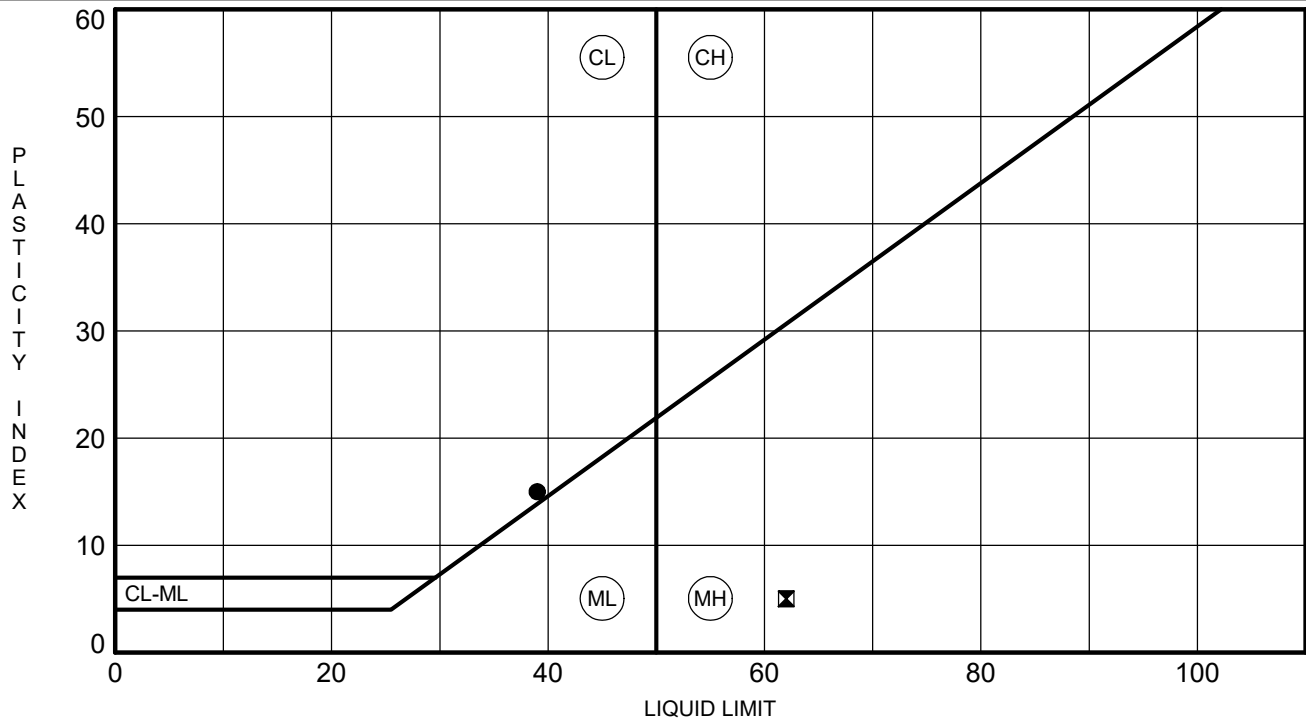


ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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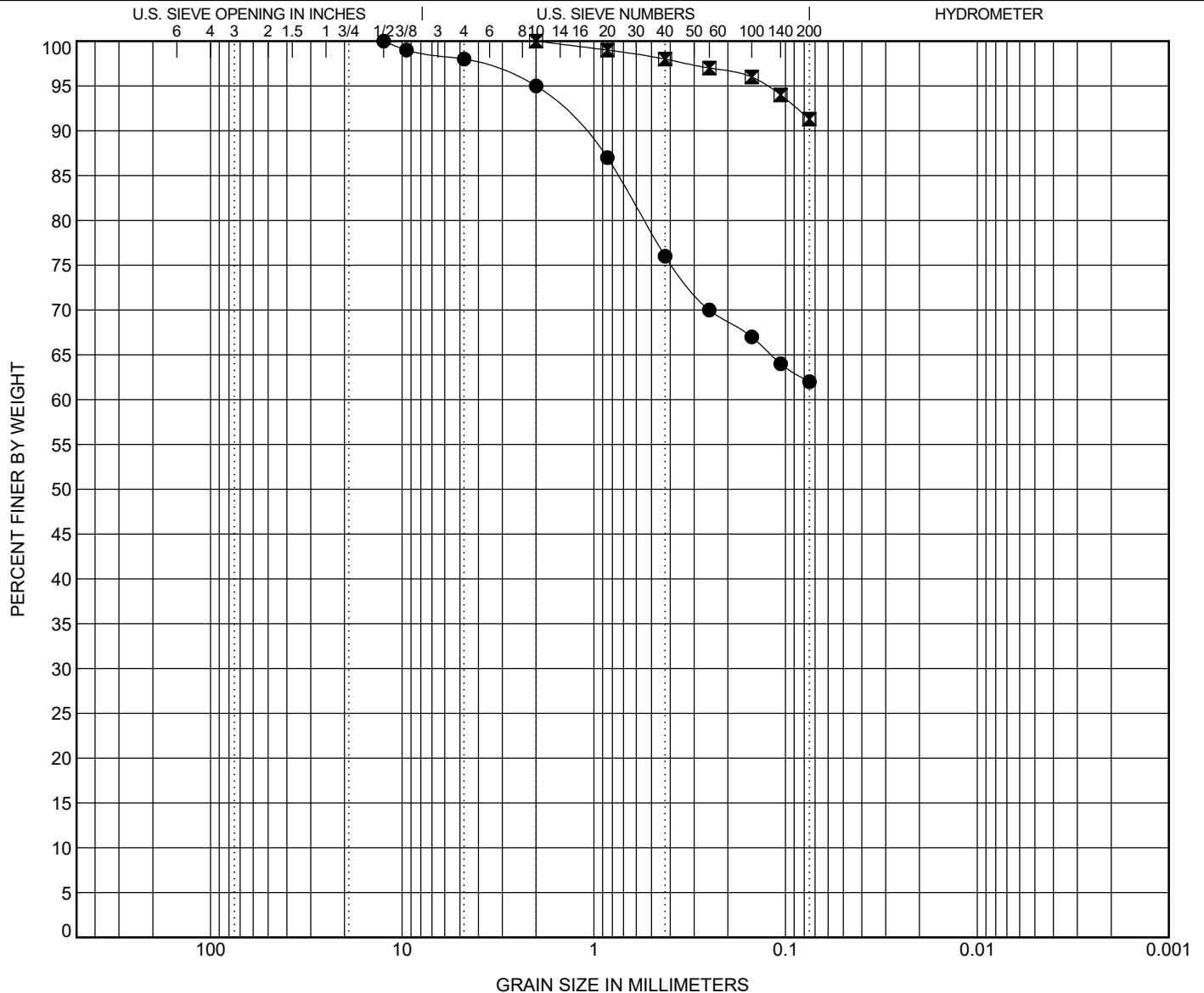


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

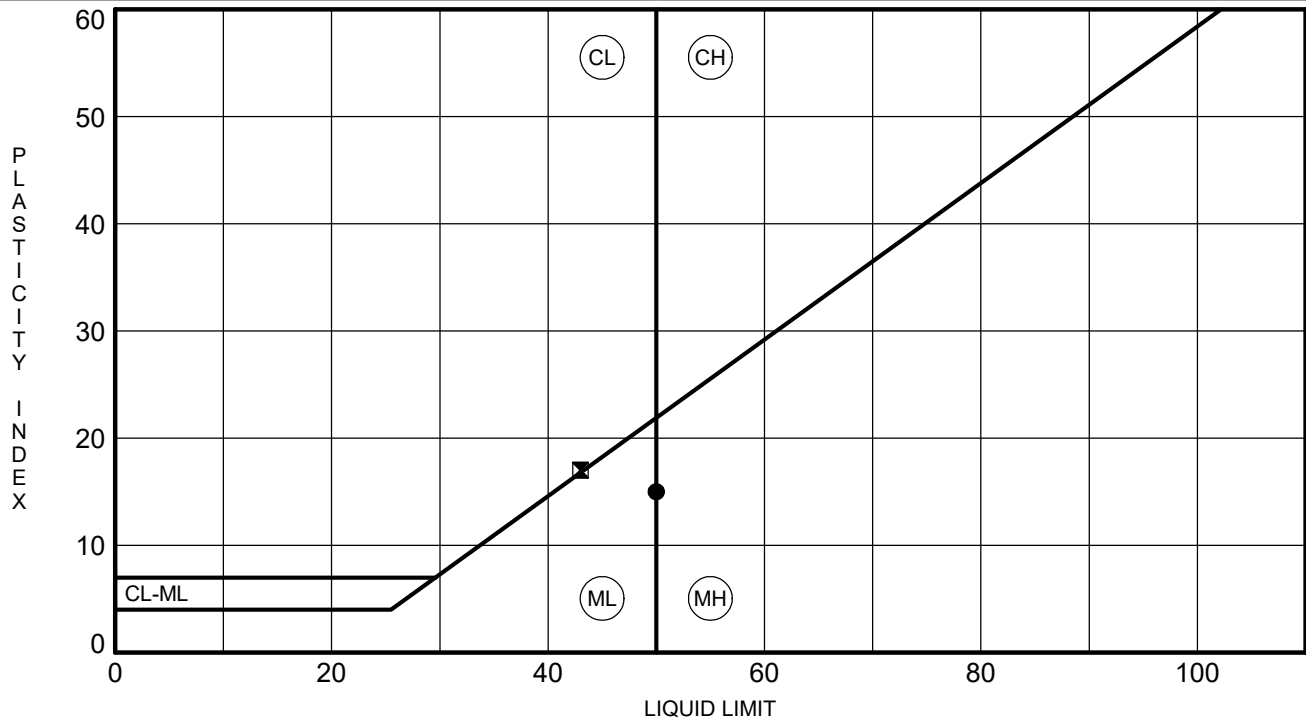
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-084	2.0	SANDY LEAN CLAY(CL)					39	24	15		
☒ G-084	24.8	ELASTIC SILT(MH)					62	57	5		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-084	2.0	12.5				2.0	36.0	62.0			
☒ G-084	24.8	2				0.0	8.7	91.3			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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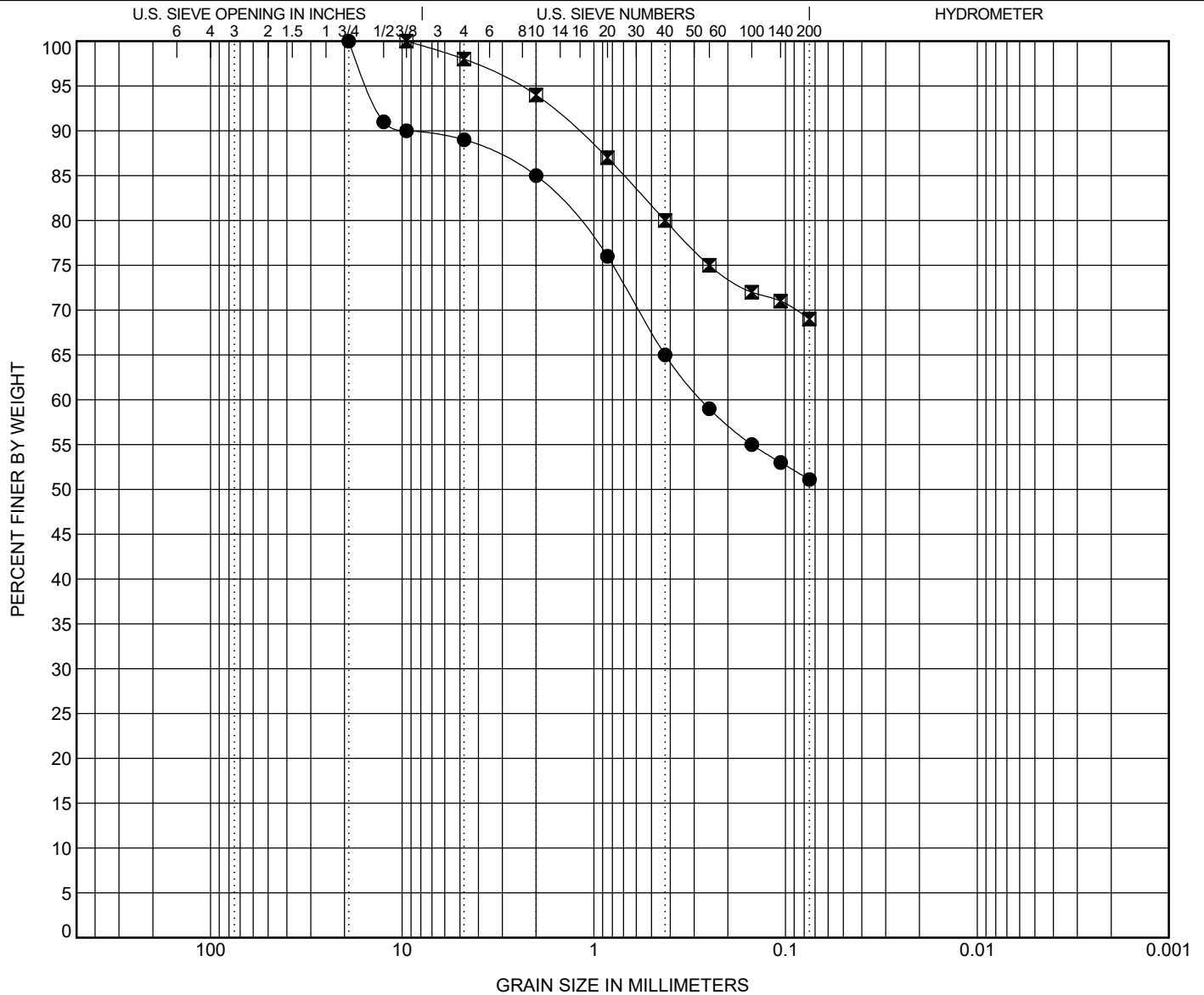


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

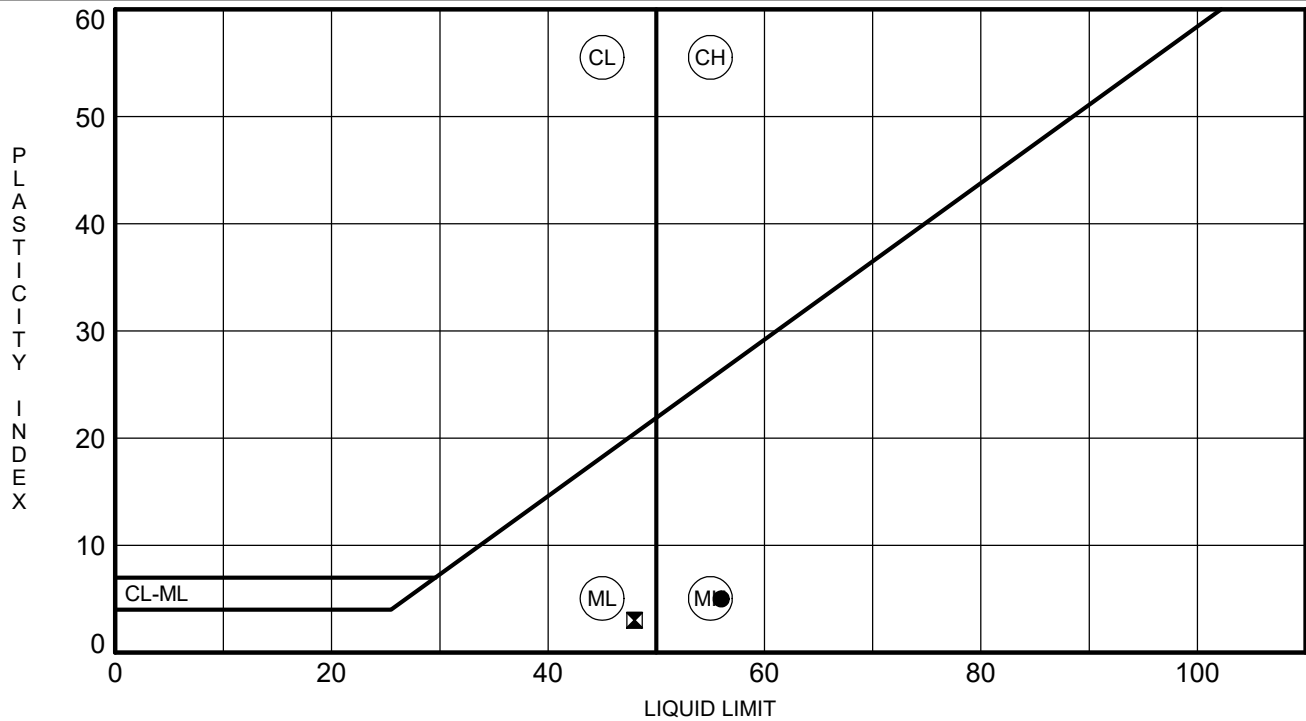
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-085	6.0	SANDY ELASTIC SILT(MH)					50	35	15		
■ G-085	19.6	SANDY LEAN CLAY(CL)					43	26	17		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-085	6.0	19	0.273			11.0	37.9	51.1			
■ G-085	19.6	9.5				2.0	29.0	69.0			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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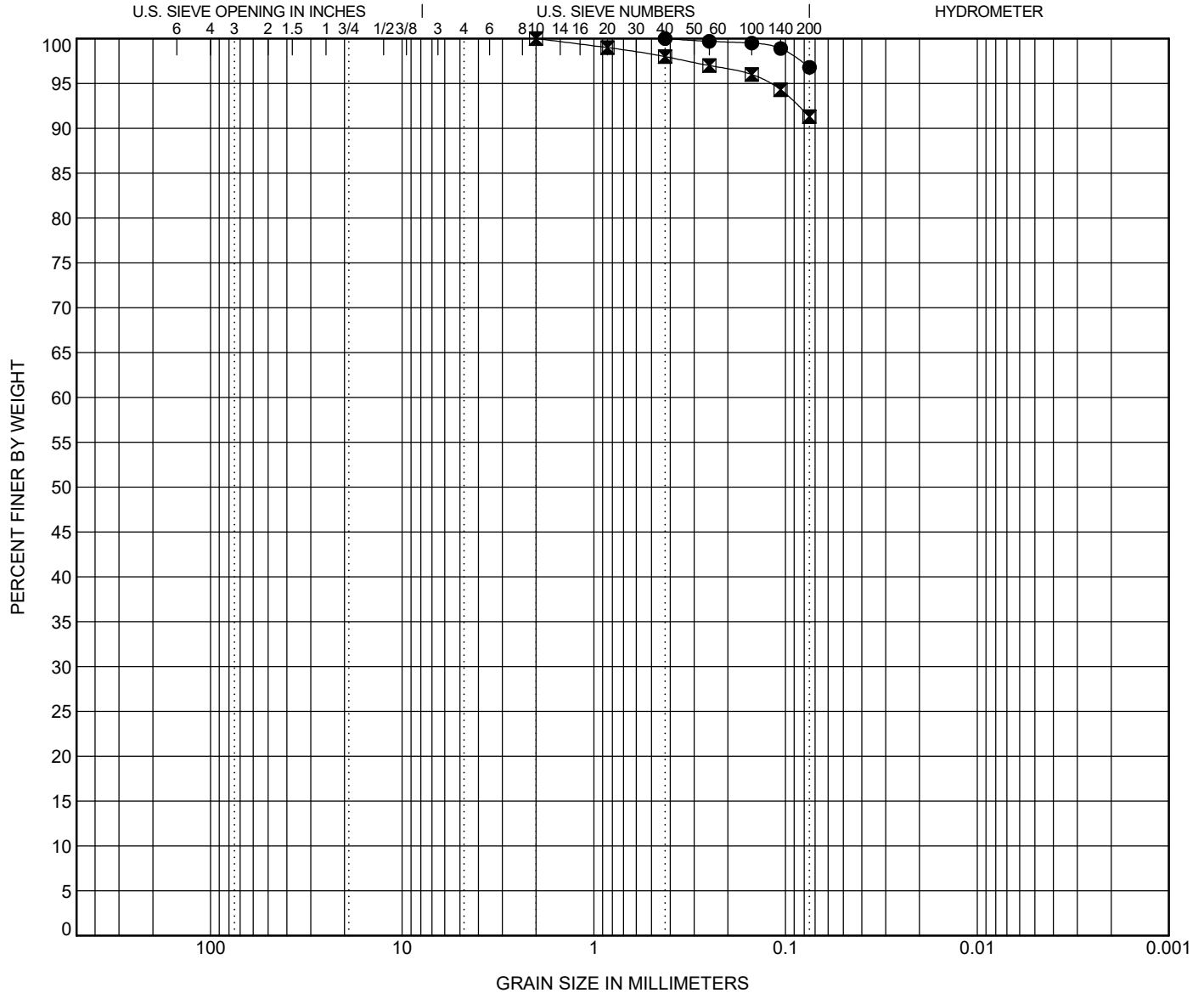


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

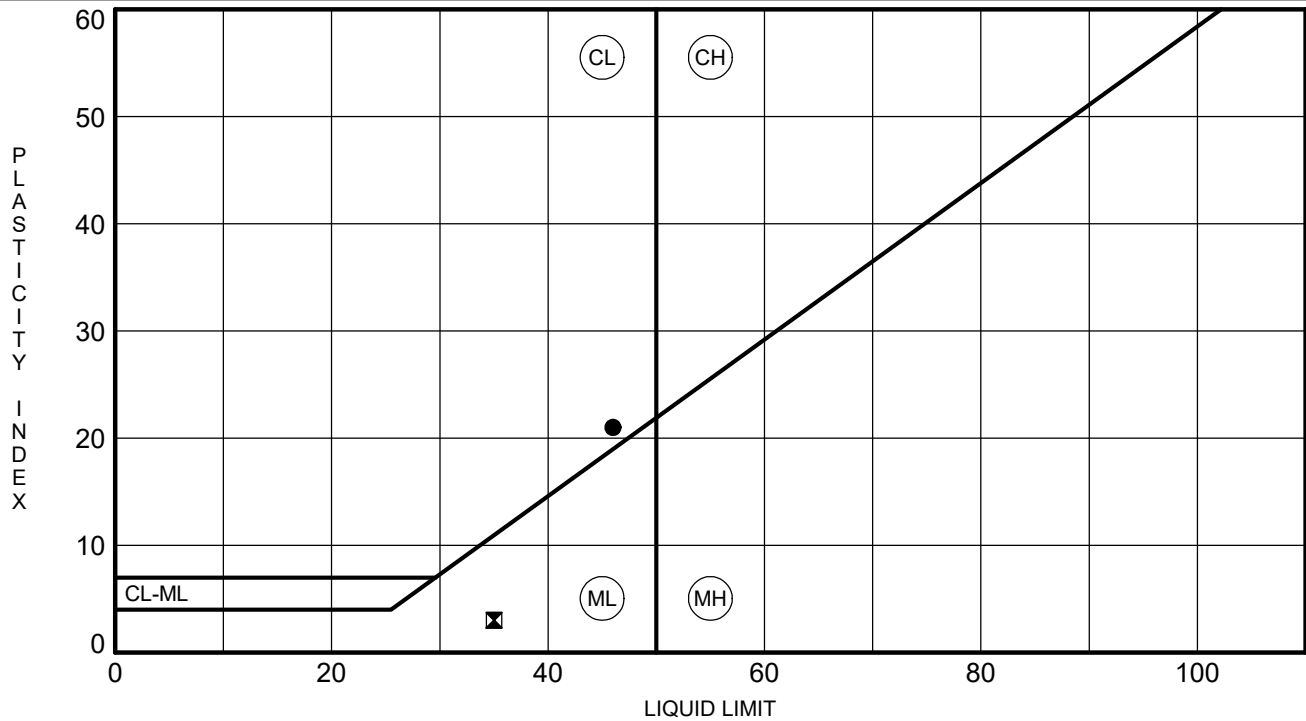
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-086	8.0	ELASTIC SILT(MH)					56	51	5		
☒ G-086	34.5	SILT(ML)					48	45	3		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-086	8.0	0.425				0.0	3.2	96.8			
☒ G-086	34.5	2				0.0	8.7	91.3			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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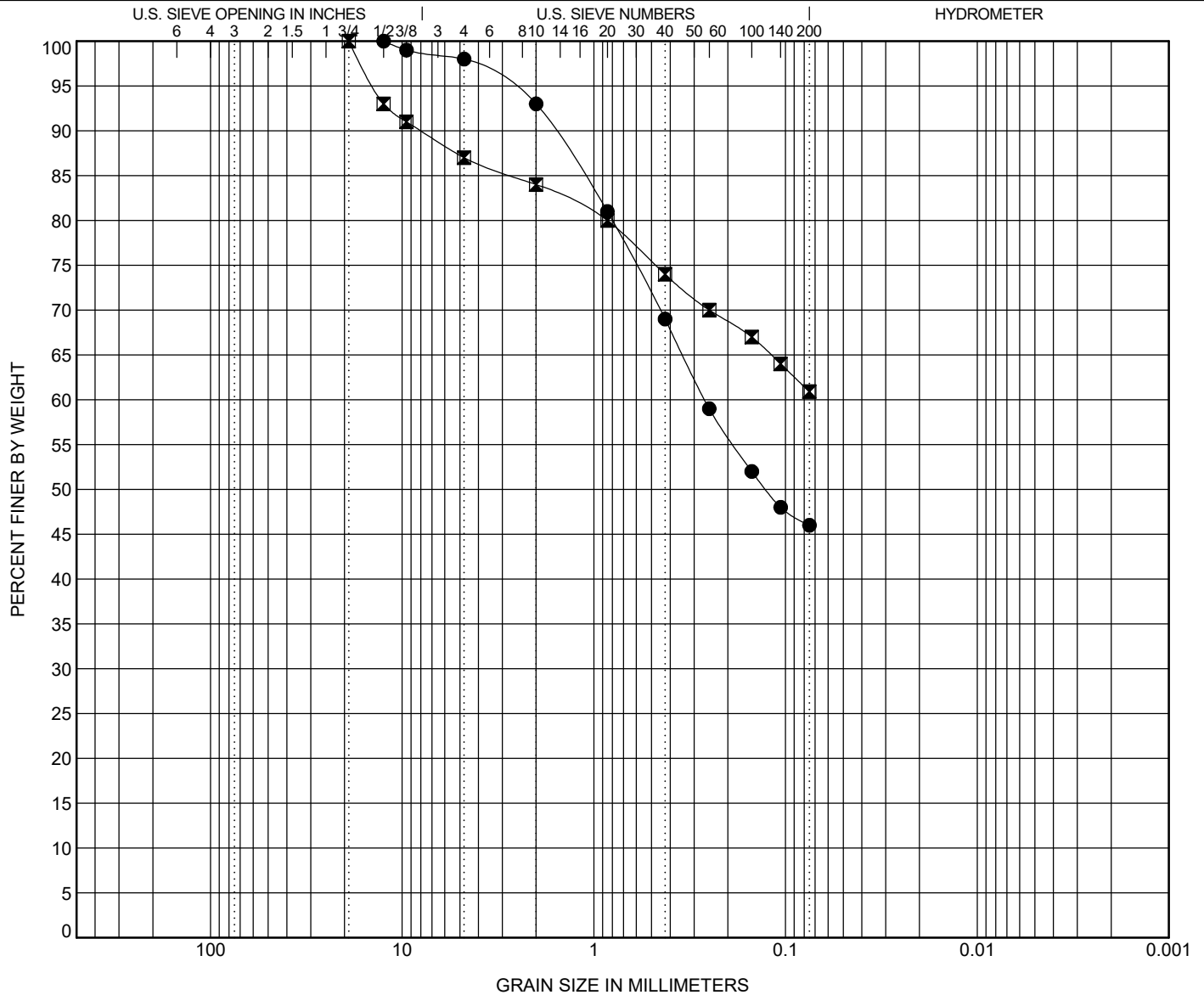


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

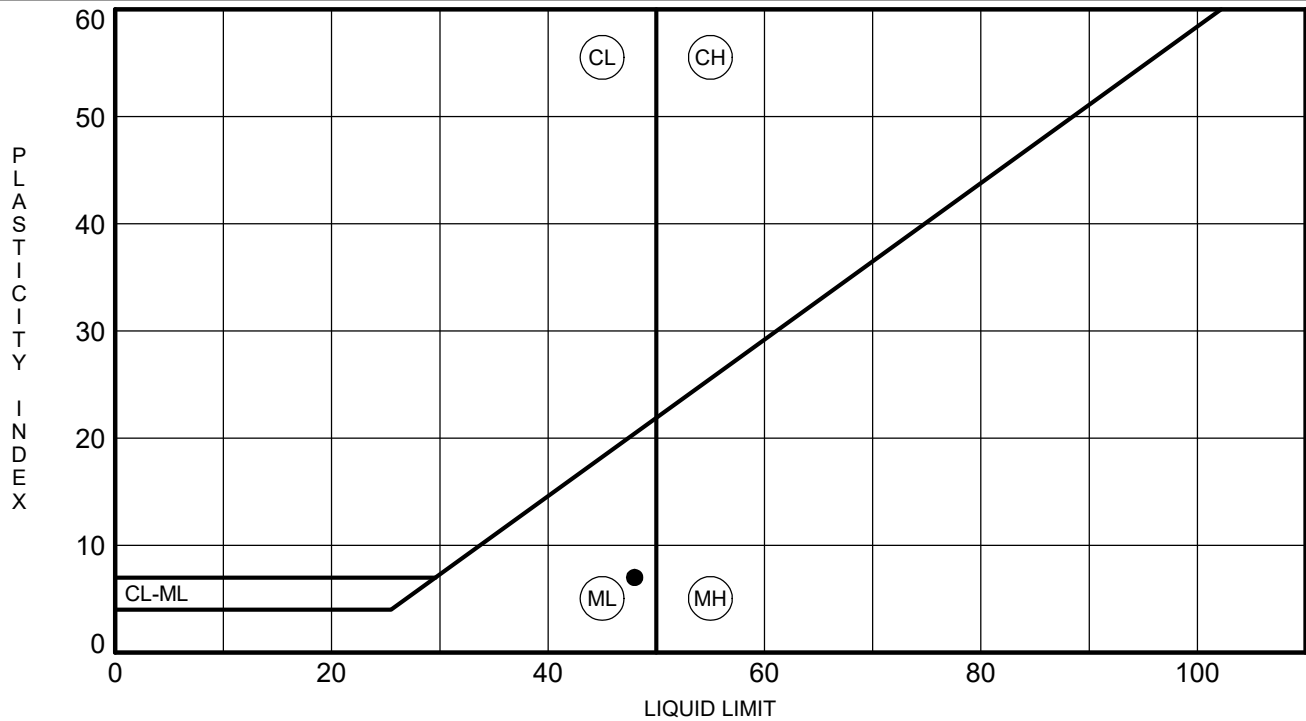
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-087	4.0	CLAYEY SAND(SC)					46	25	21		
☒ G-087	14.6	SANDY SILT(ML)					35	32	3		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-087	4.0	12.5	0.264			2.0	52.0	46.0			
☒ G-087	14.6	19				13.0	26.1	60.9			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

[illegible]

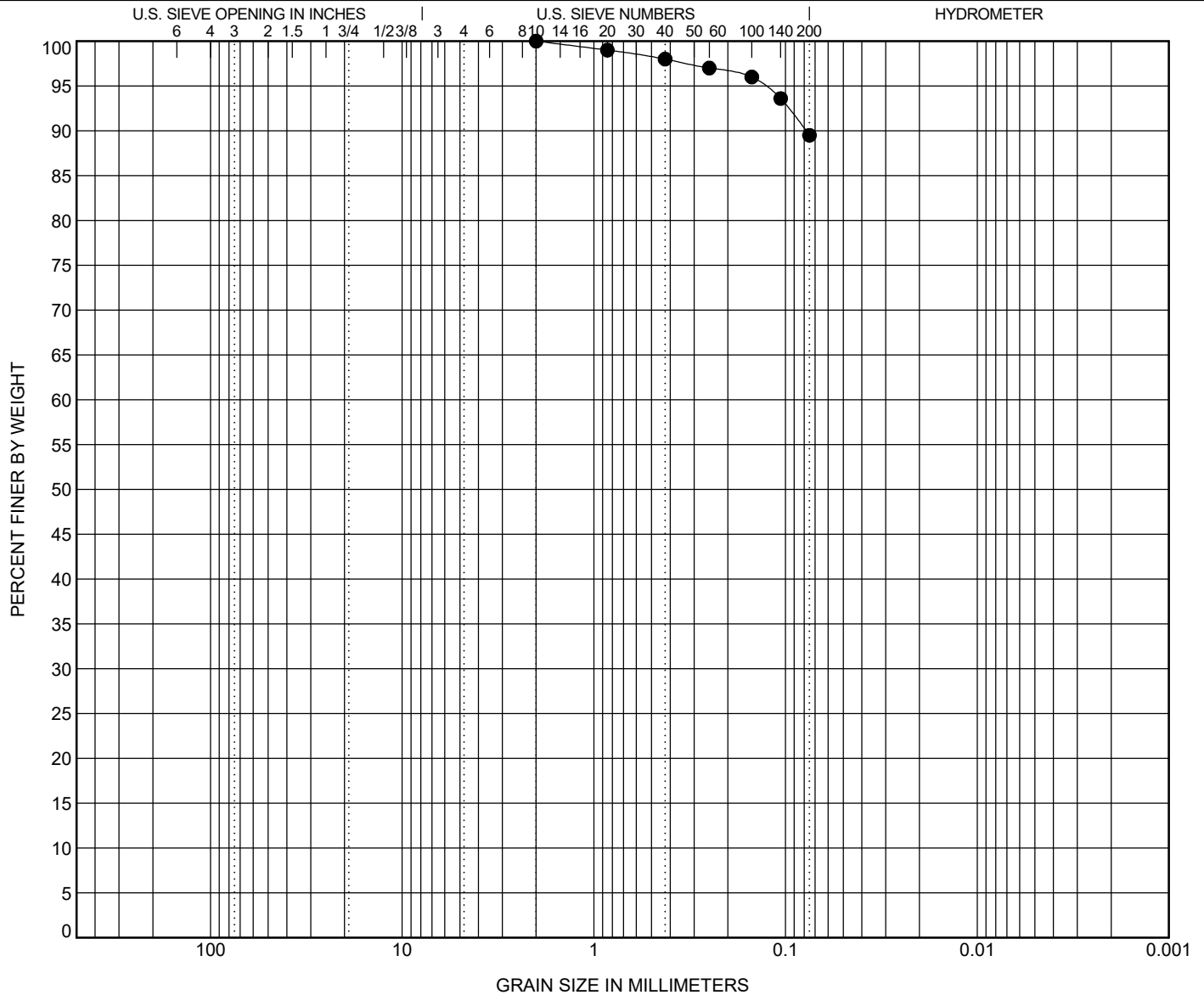


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-091	8.0	SILT(ML)					48	41	7		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-091	8.0	2				0.0	10.5	89.5			

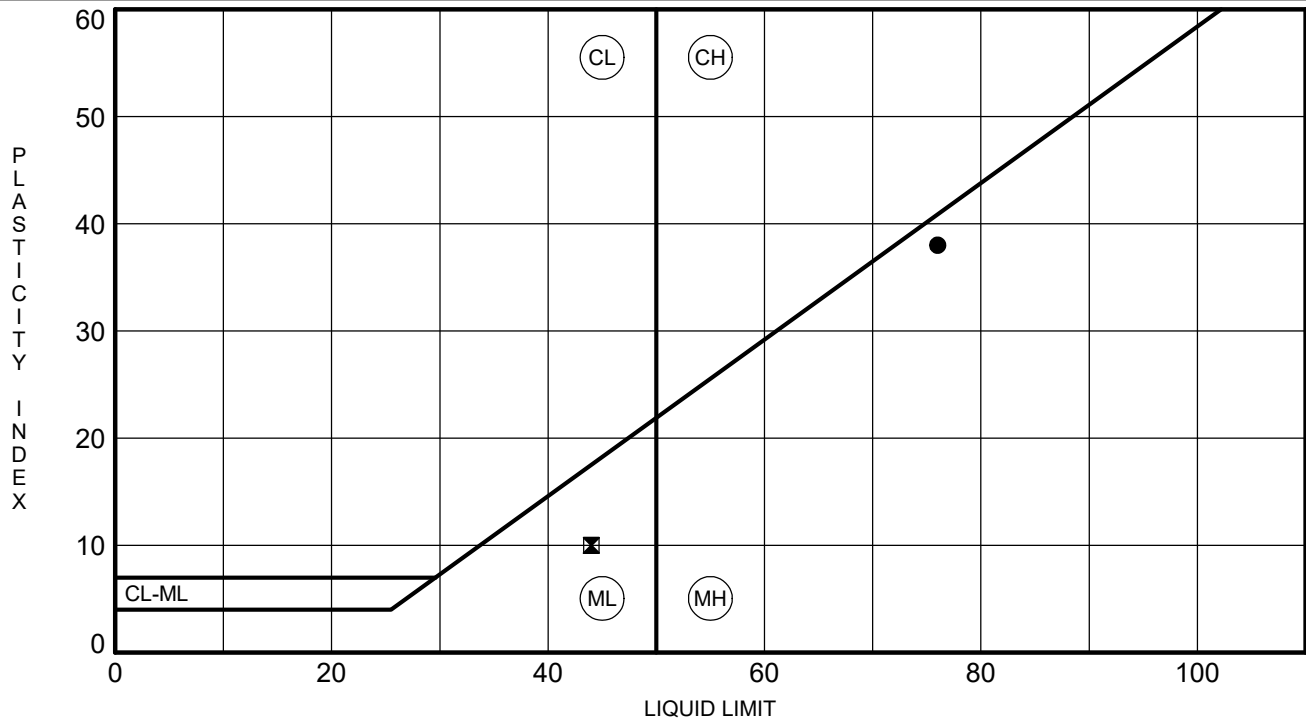
GRAIN SIZE 20-81_CCR2 ICE BH_MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



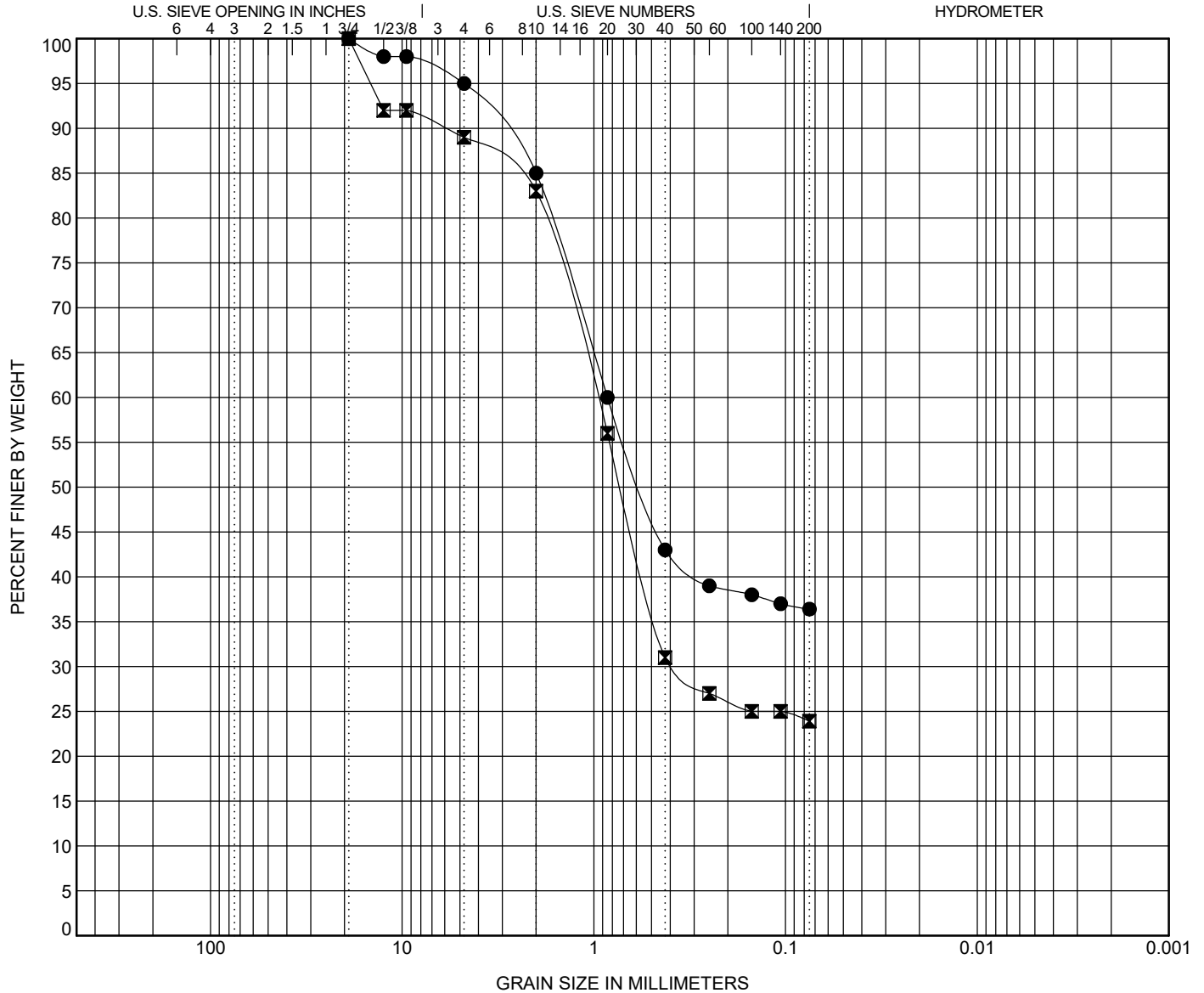


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

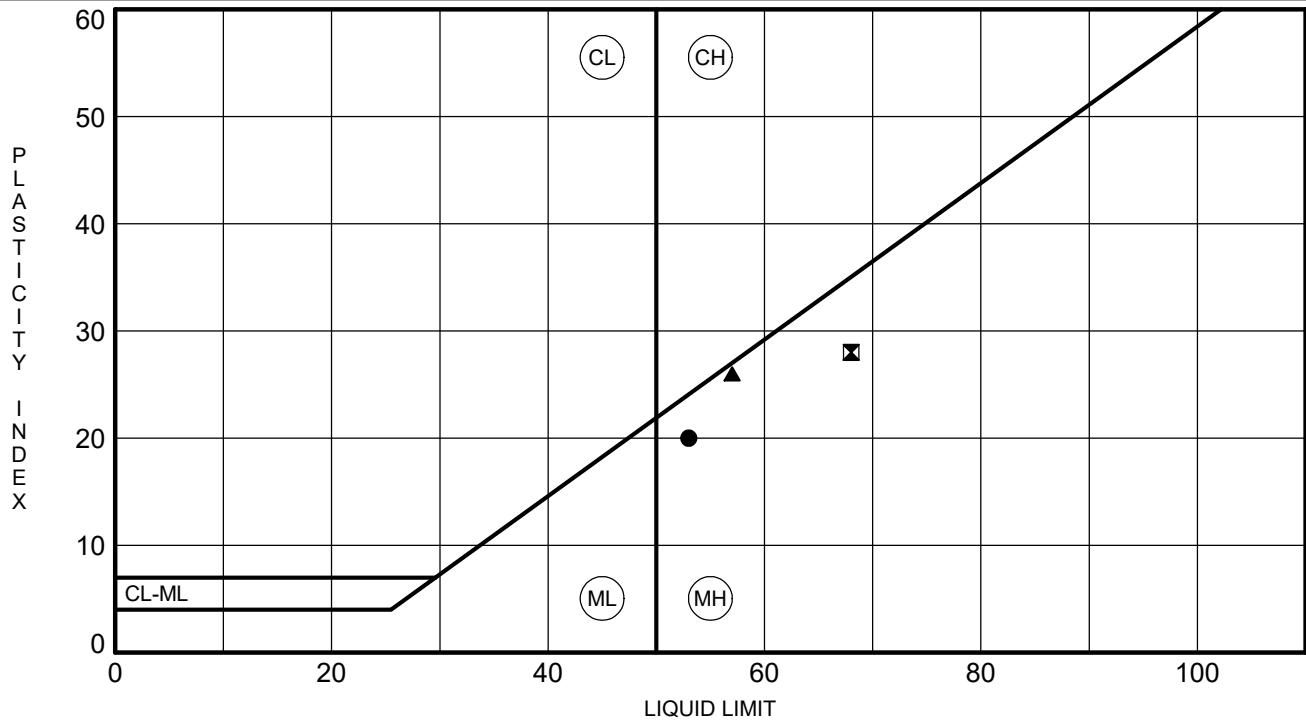
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-093	19.1	SILTY SAND(SM)					76	38	38		
☒ G-093	34.1	SILTY SAND(SM)					44	34	10		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-093	19.1	19	0.85			5.0	58.6	36.4			
☒ G-093	34.1	19	0.965	0.372		11.0	65.1	23.9			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

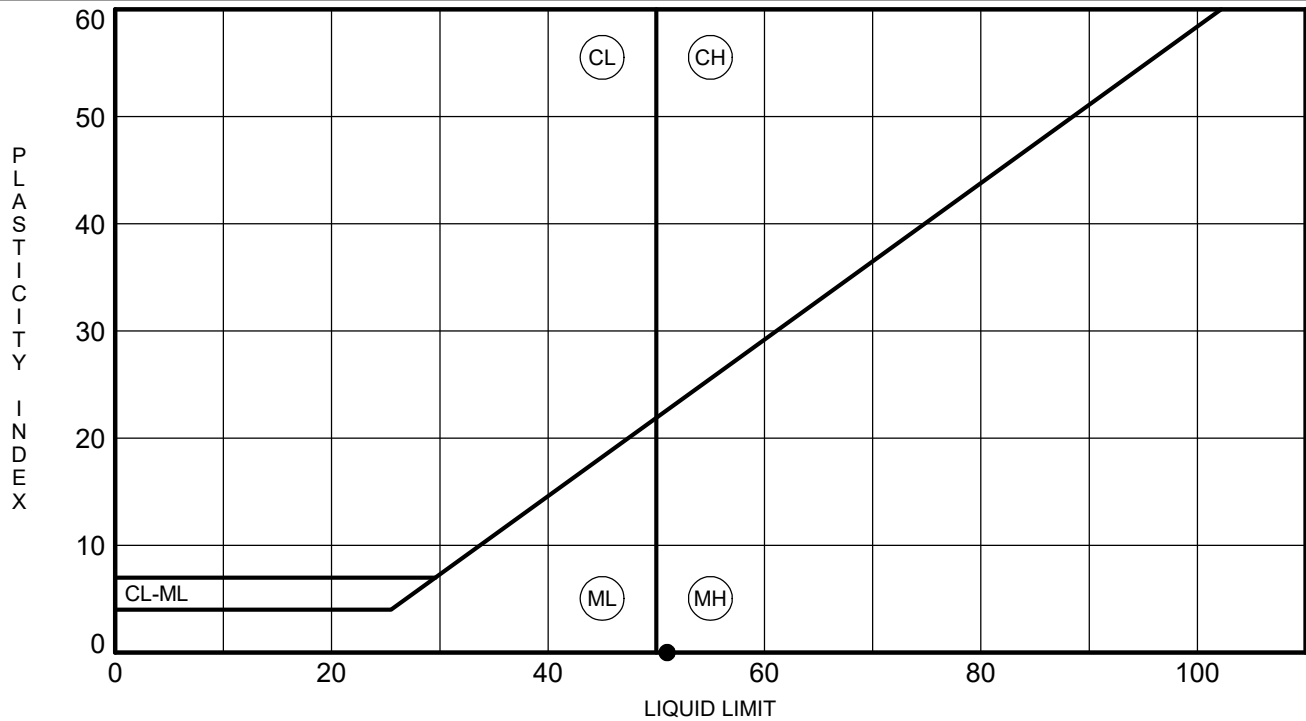


ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

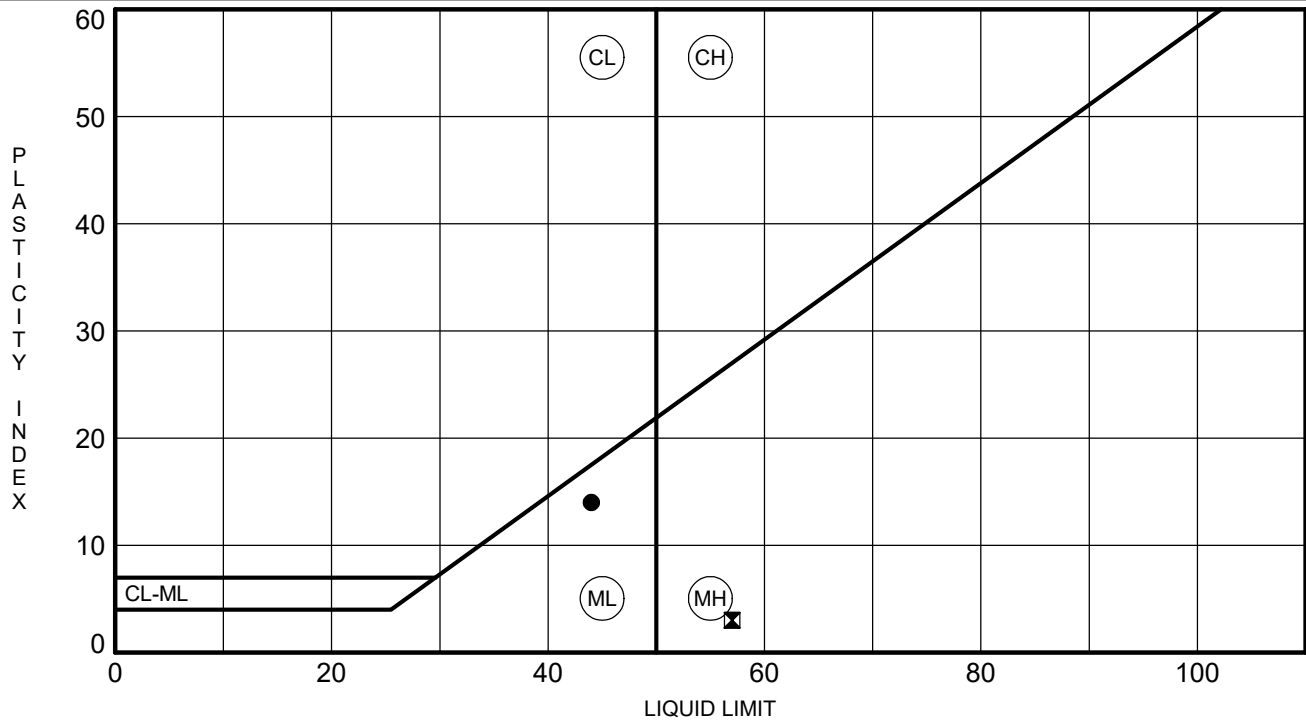


ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



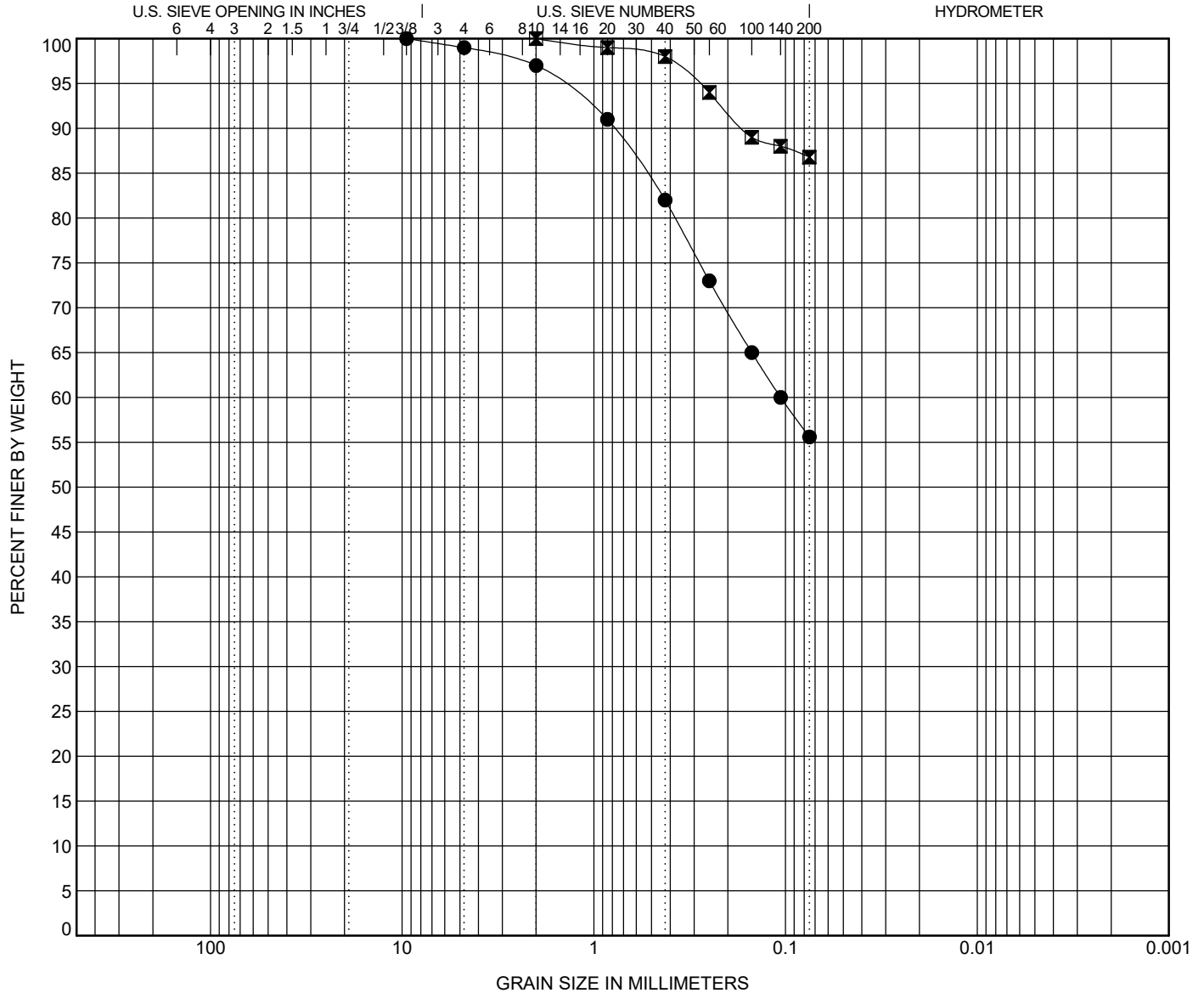


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

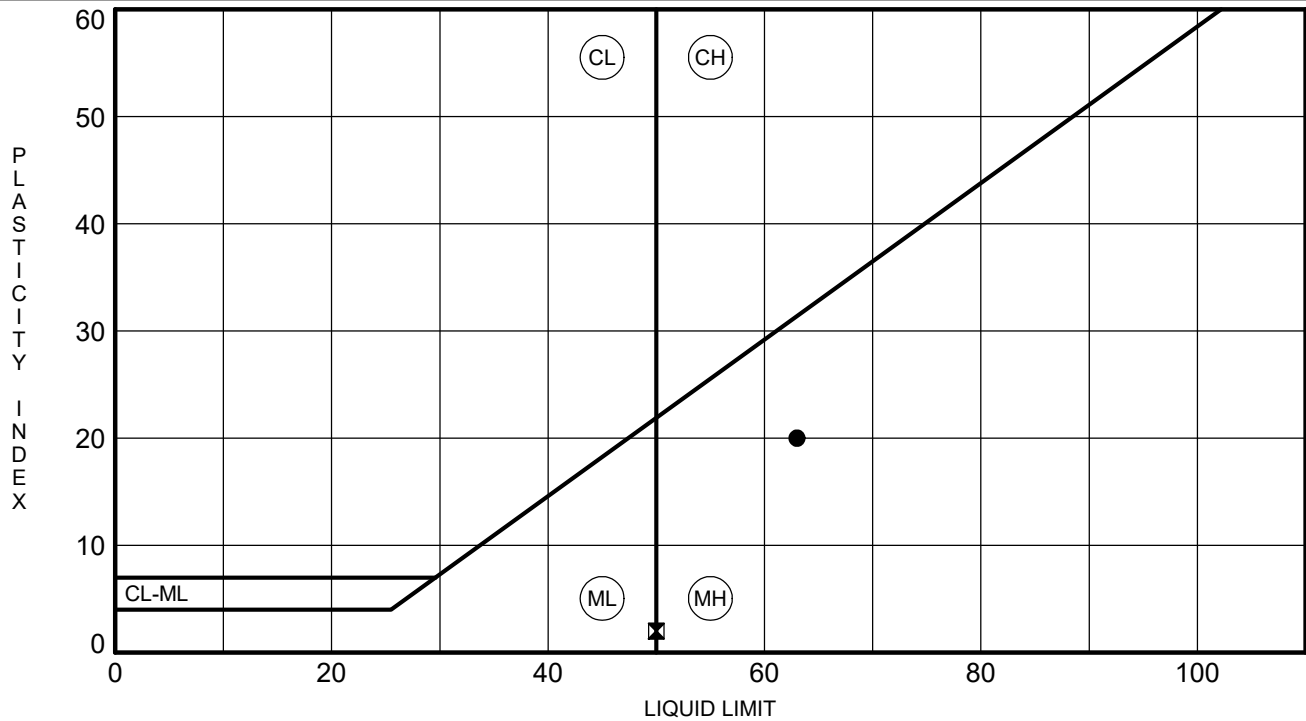
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-098	13.8	SANDY SILT(ML)					44	30	14		
☒ G-098	28.8	ELASTIC SILT(MH)					57	54	3		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-098	13.8	9.5	0.106			1.0	43.4	55.6			
☒ G-098	28.8	2				0.0	13.2	86.8			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



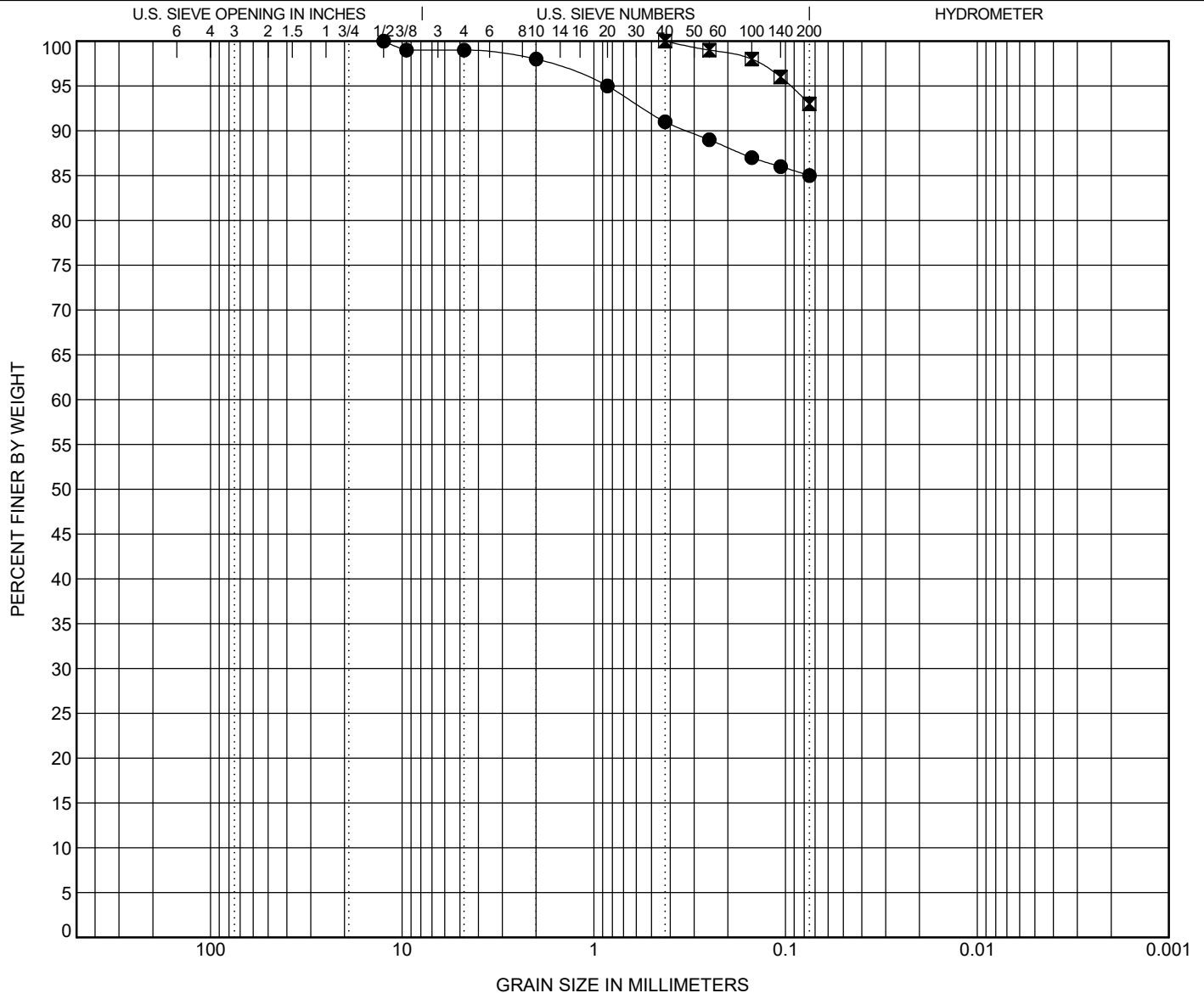


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

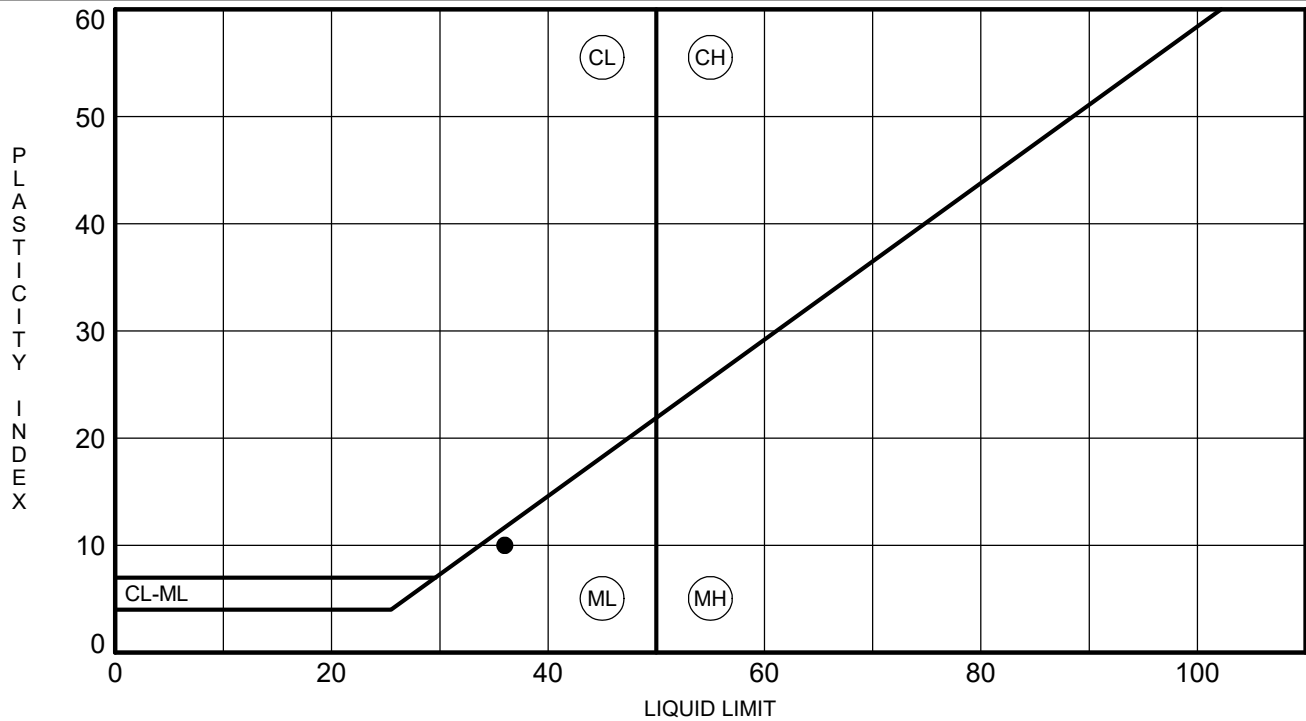
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-099	4.0	ELASTIC SILT with SAND(MH)					63	43	20		
☒ G-099	23.2	ELASTIC SILT(MH)					50	48	2		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-099	4.0	12.5				1.0	14.0	85.0			
☒ G-099	23.2	0.425				0.0	7.0	93.0			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



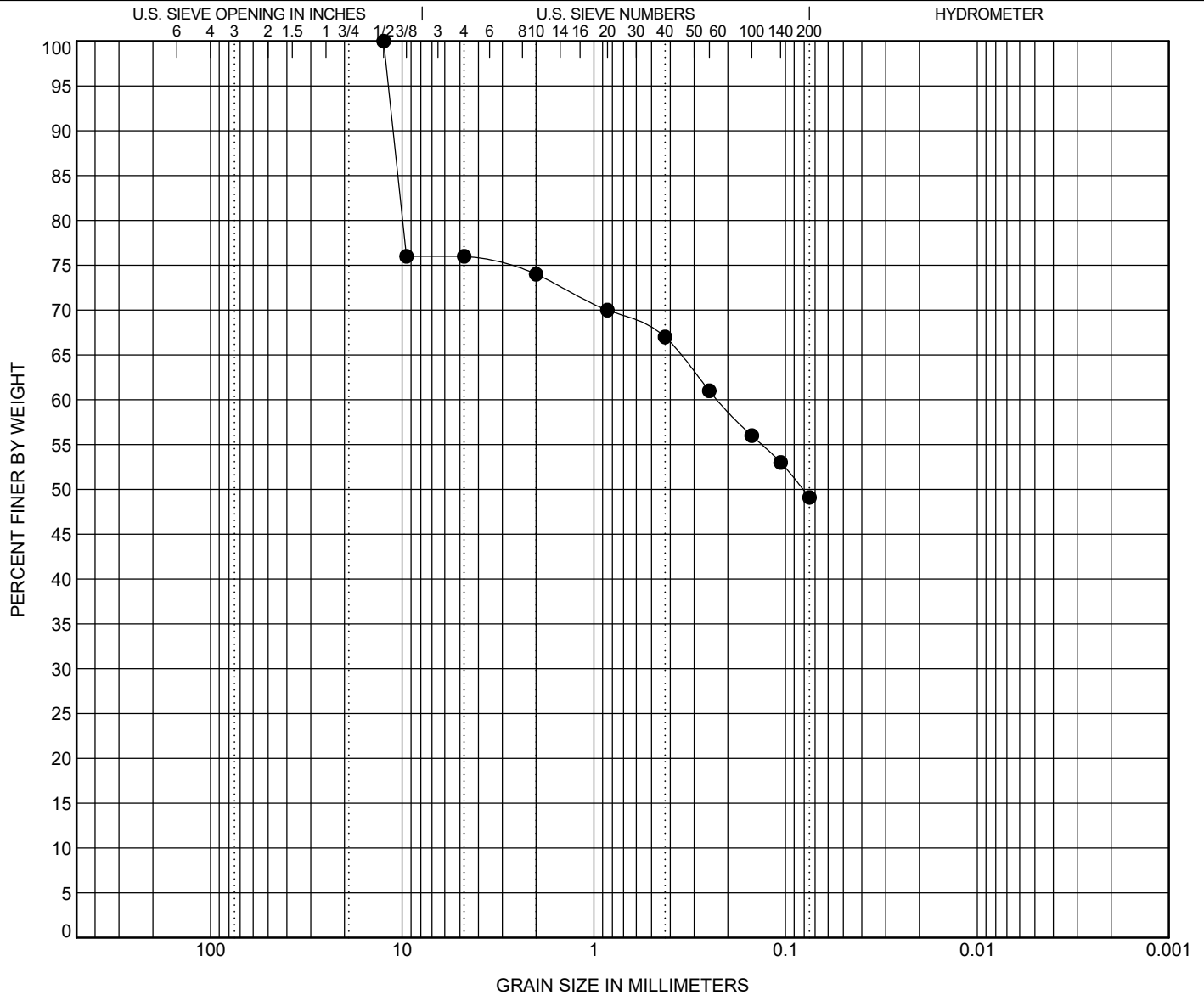


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-100	8.0	SILTY SAND with GRAVEL(SM)					36	26	10		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-100	8.0	12.5	0.226			24.0	26.9	49.1			

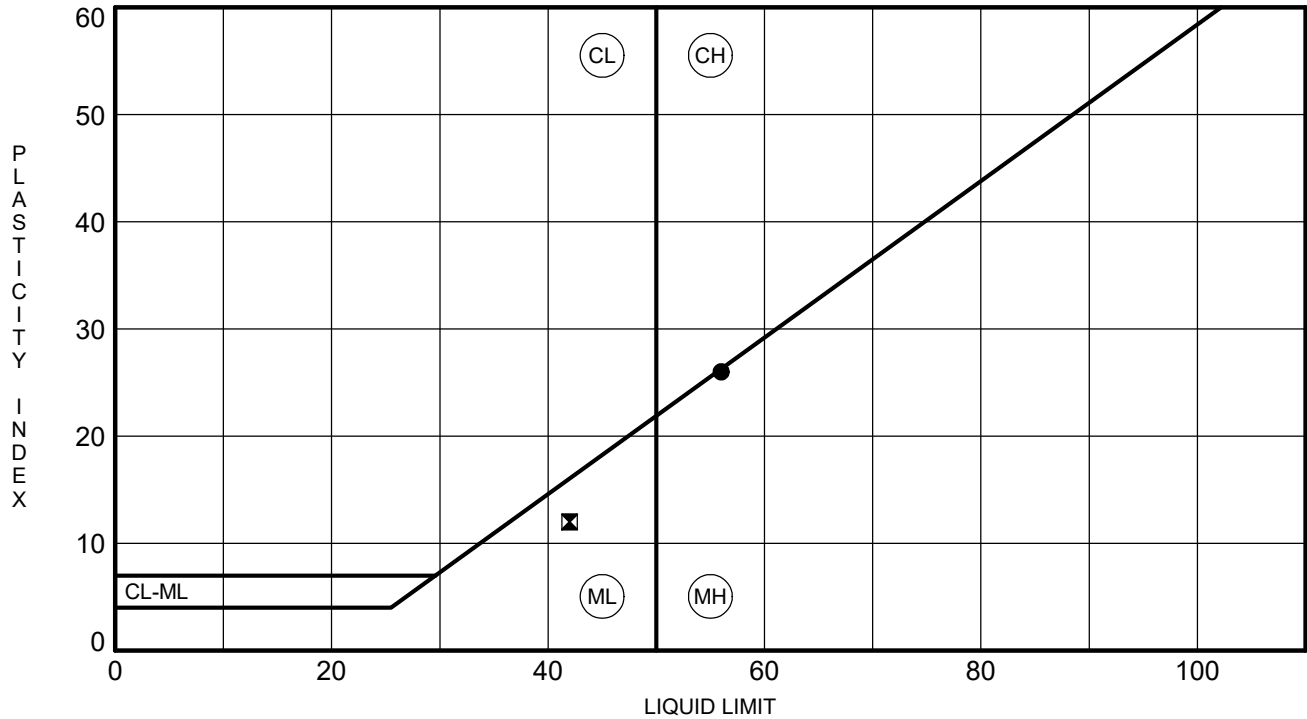


ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



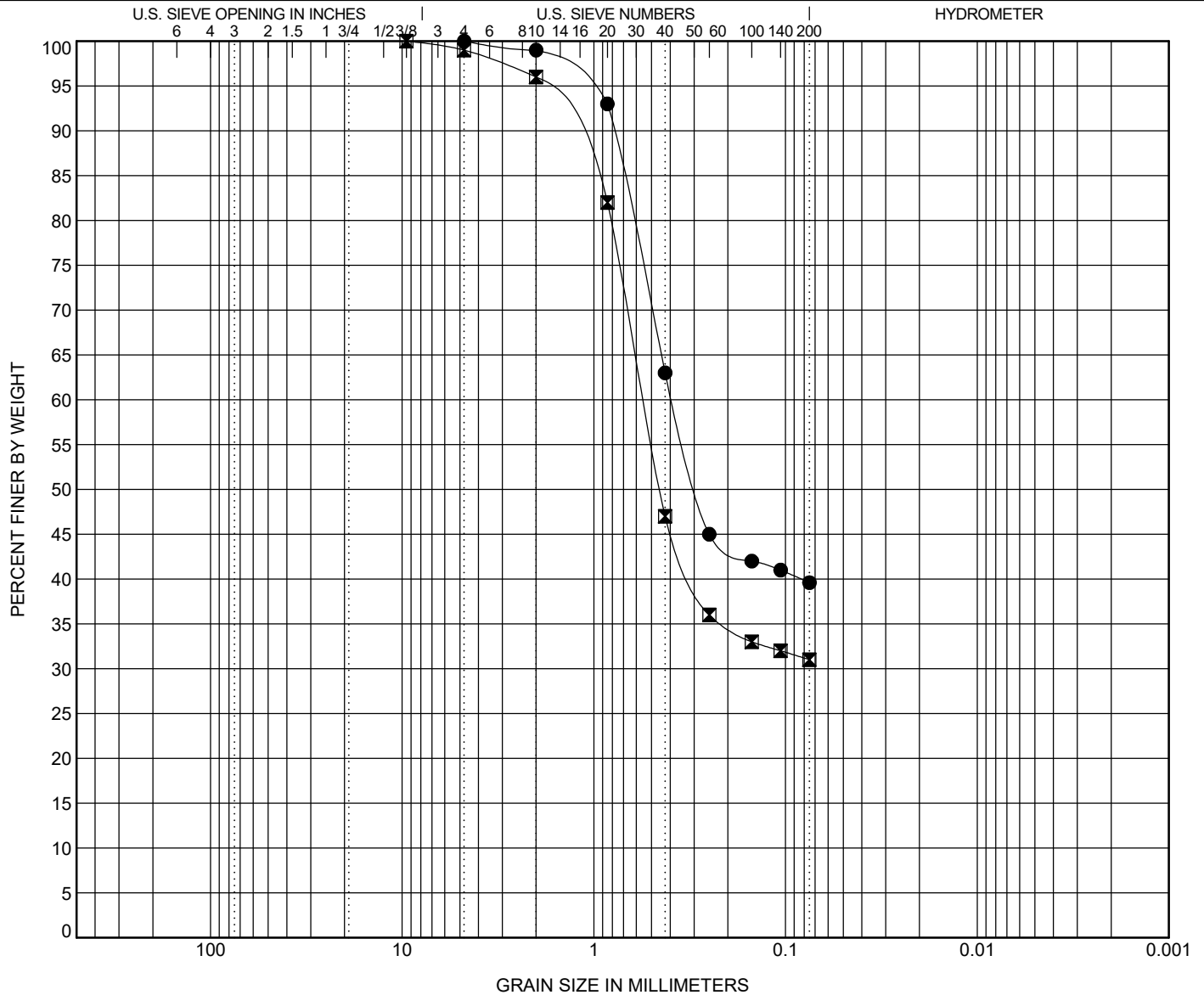


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-101	6.0	SILTY SAND(SM)					56	30	26		
☒ G-101	14.2	SILTY SAND(SM)					42	30	12		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-101	6.0	4.75	0.389			0.0	60.4	39.6			
☒ G-101	14.2	9.5	0.55			1.0	68.0	31.0			

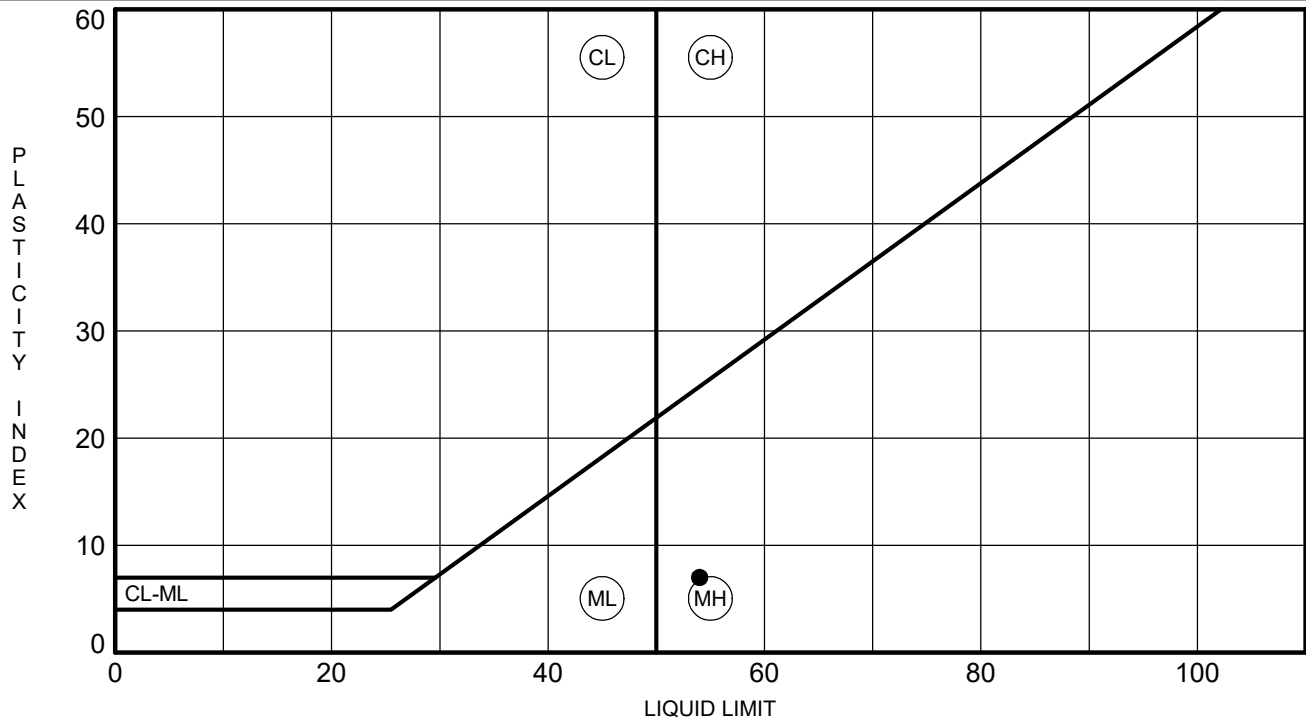
GRAIN SIZE 20-81_CCR2 ICE BH MERGED.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 4/21/22

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

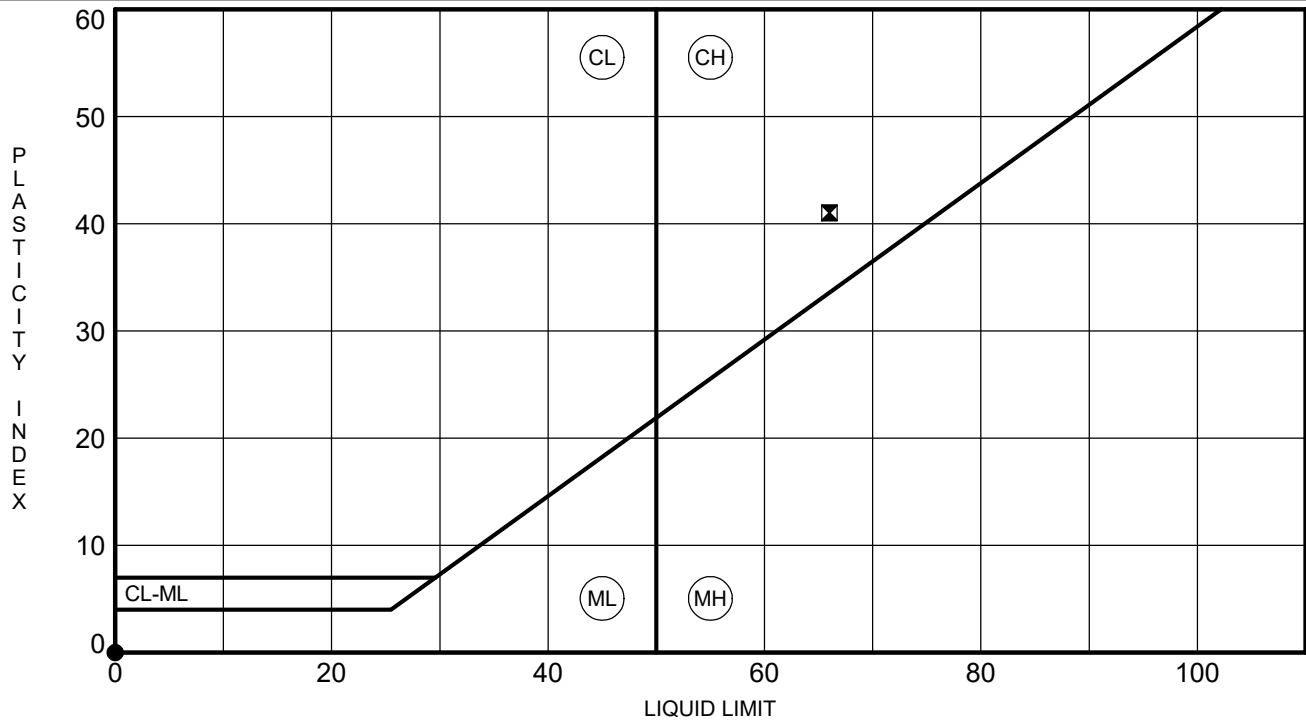


ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



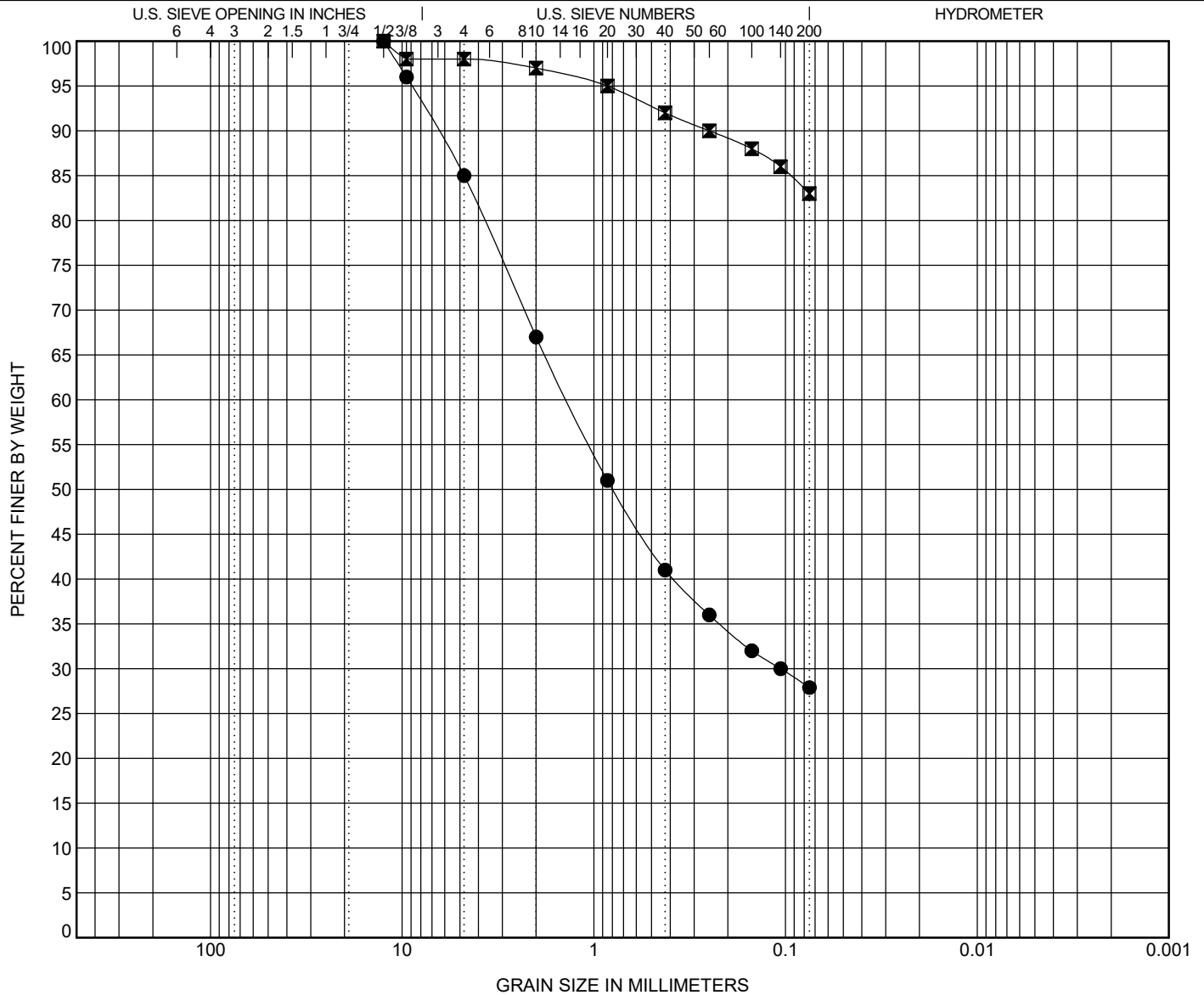


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

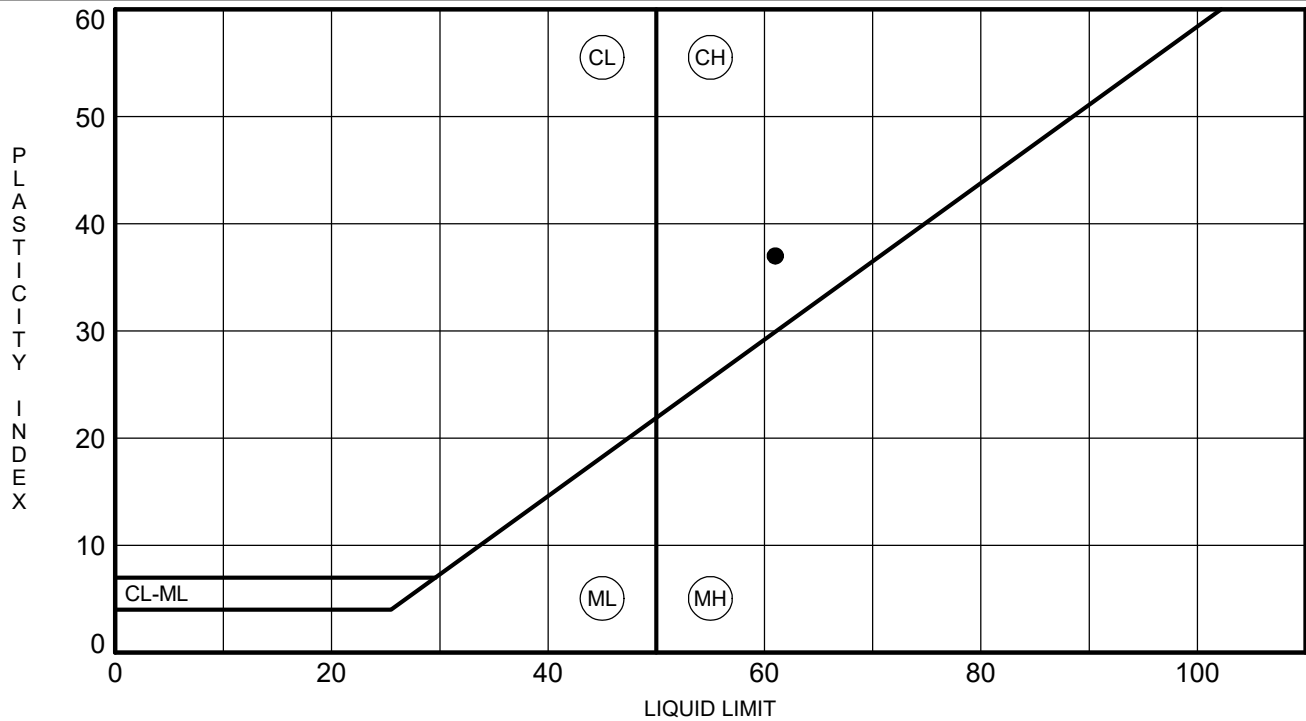
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-104	4.0	SILTY SAND with GRAVEL(SM)					NP	NP	NP		
☒ G-104	13.5	FAT CLAY with SAND(CH)					66	25	41		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-104	4.0	12.5	1.375	0.106		15.0	57.1	27.9			
☒ G-104	13.5	12.5				2.0	15.0	83.0			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



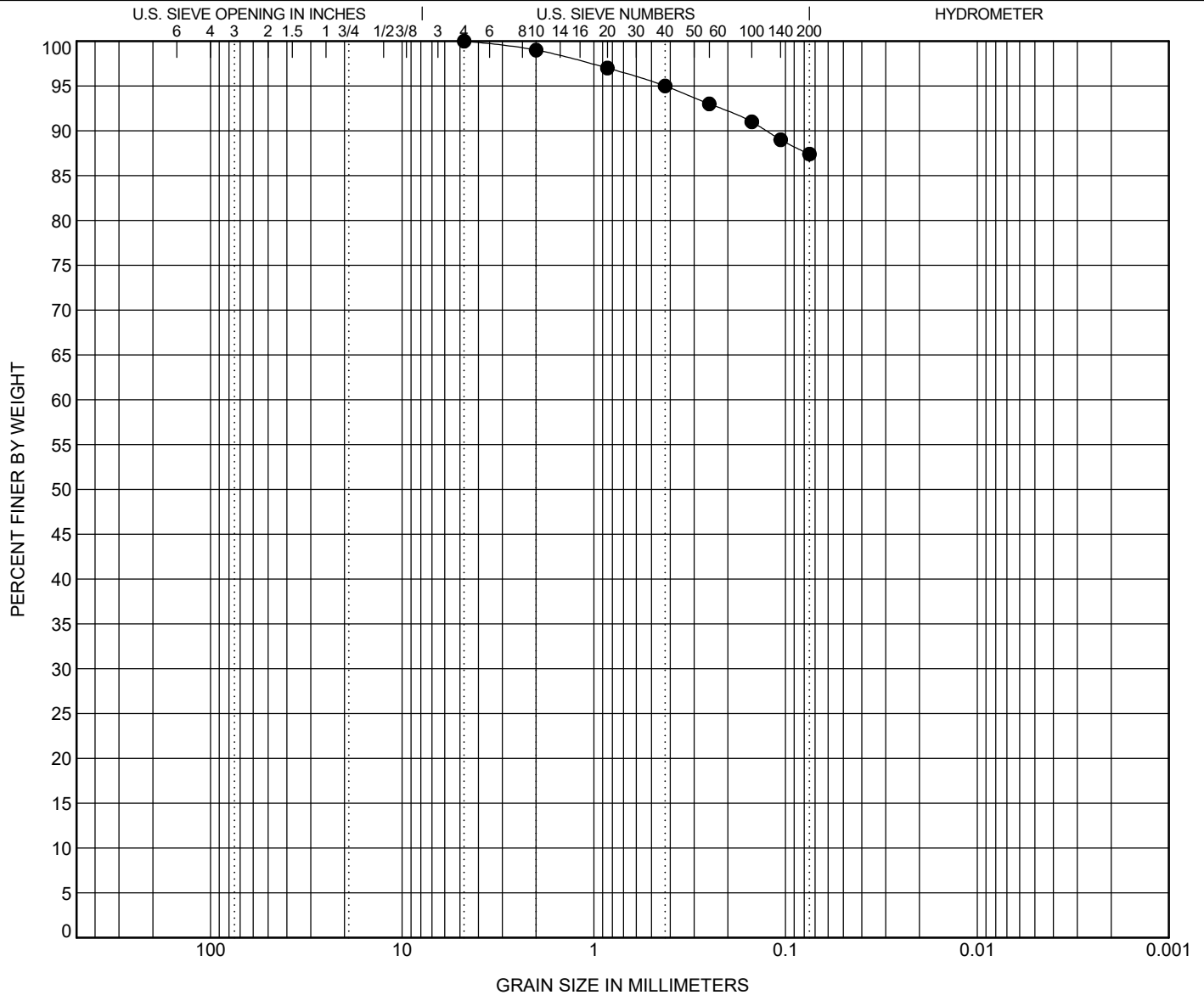


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

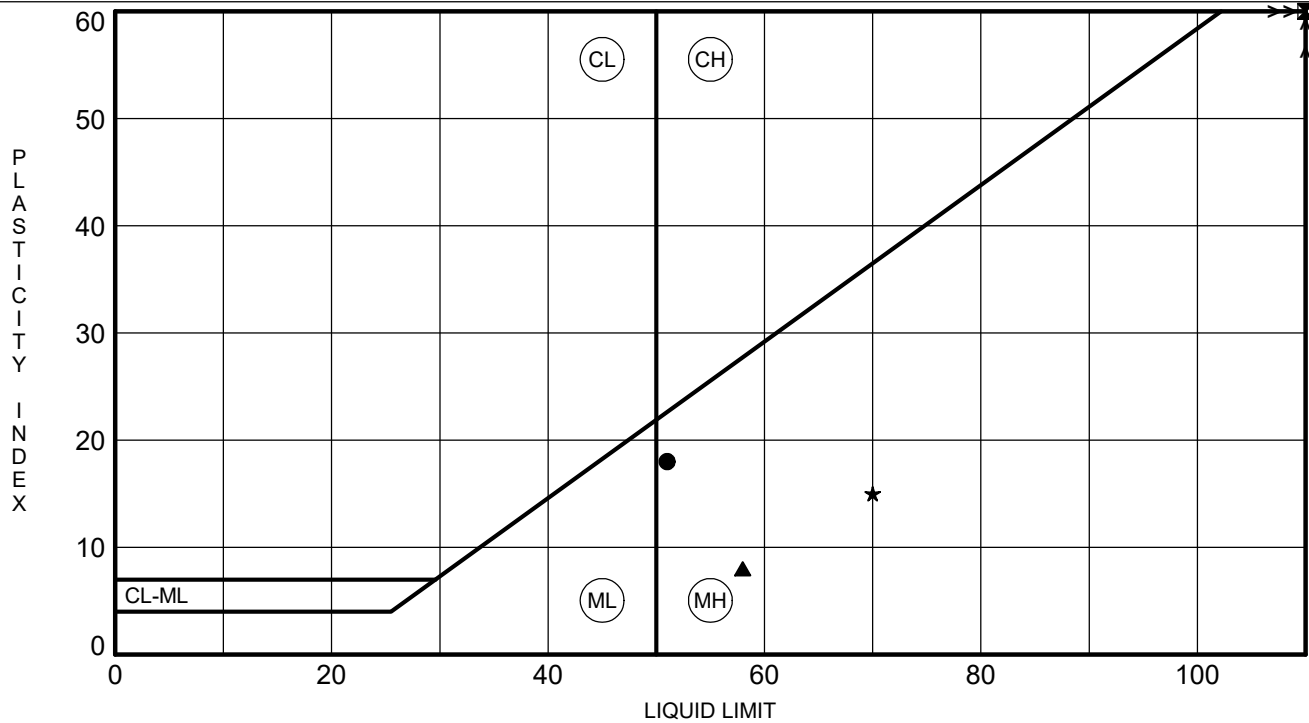
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-105	2.0	FAT CLAY(CH)					61	24	37		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-105	2.0	4.75				0.0	12.6	87.4			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



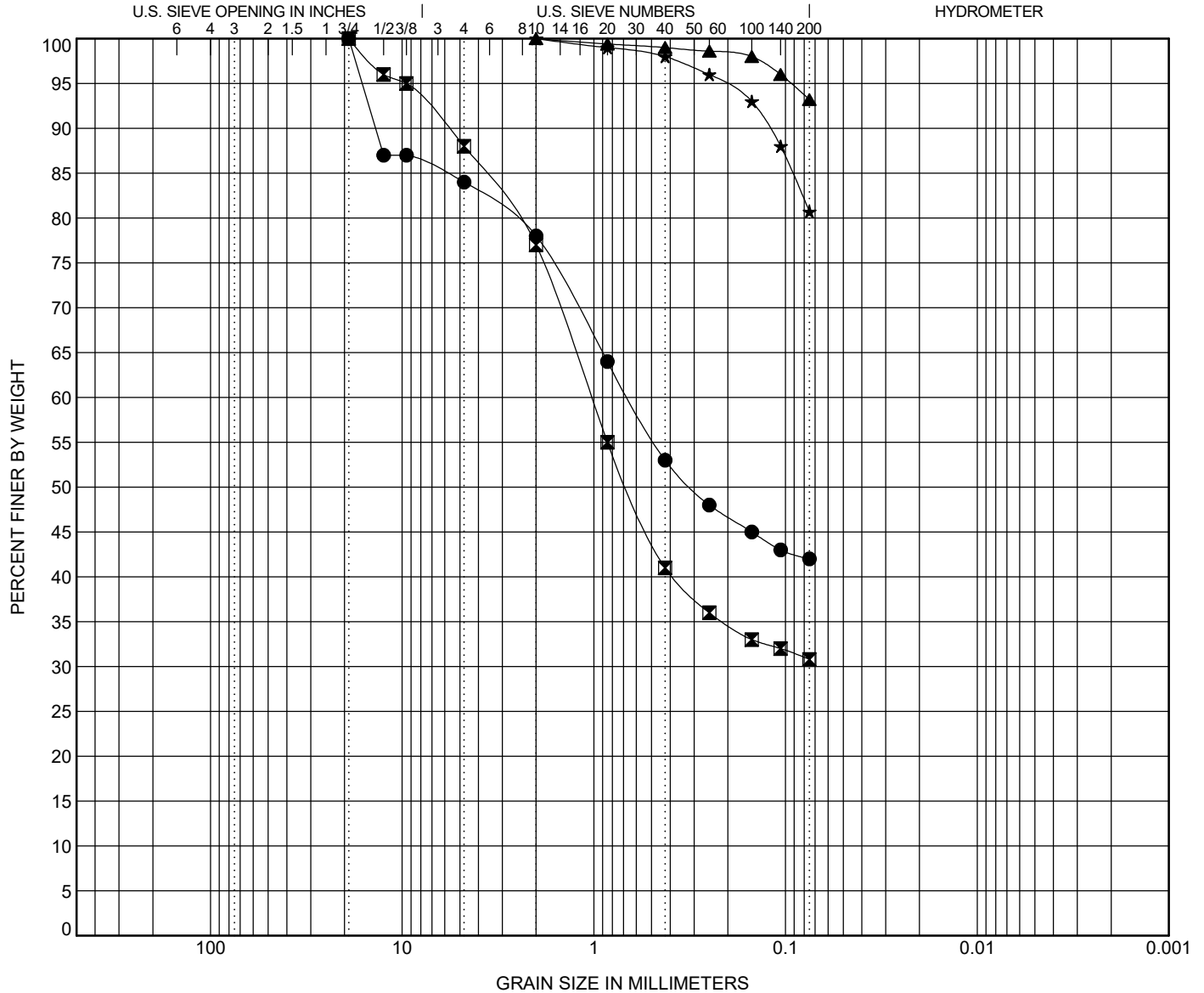


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
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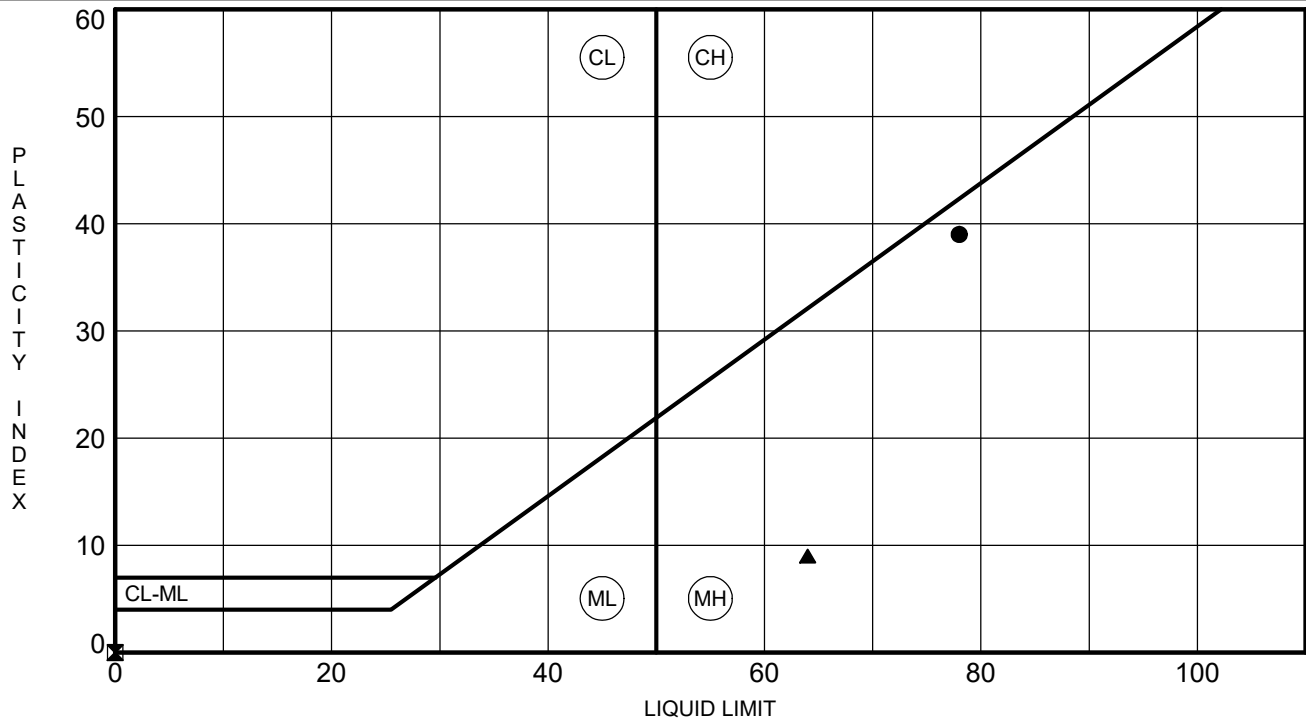
BOREHOLE	DEPTH	Classification						LL	PL	PI	Cc	Cu
● G-107	4.0	SILTY SAND with GRAVEL(SM)						51	33	18		
☒ G-107	19.4	CLAYEY SAND(SC)						557	33	524		
▲ G-107	24.4	ELASTIC SILT(MH)						58	50	8		
★ G-107	39.4	ELASTIC SILT with SAND(MH)						70	55	15		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay		
● G-107	4.0	19	0.661			16.0	42.0	42.0				
☒ G-107	19.4	19	1.032			12.0	57.2	30.8				
▲ G-107	24.4	2				0.0	6.8	93.2				
★ G-107	39.4	2				0.0	19.3	80.7				

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



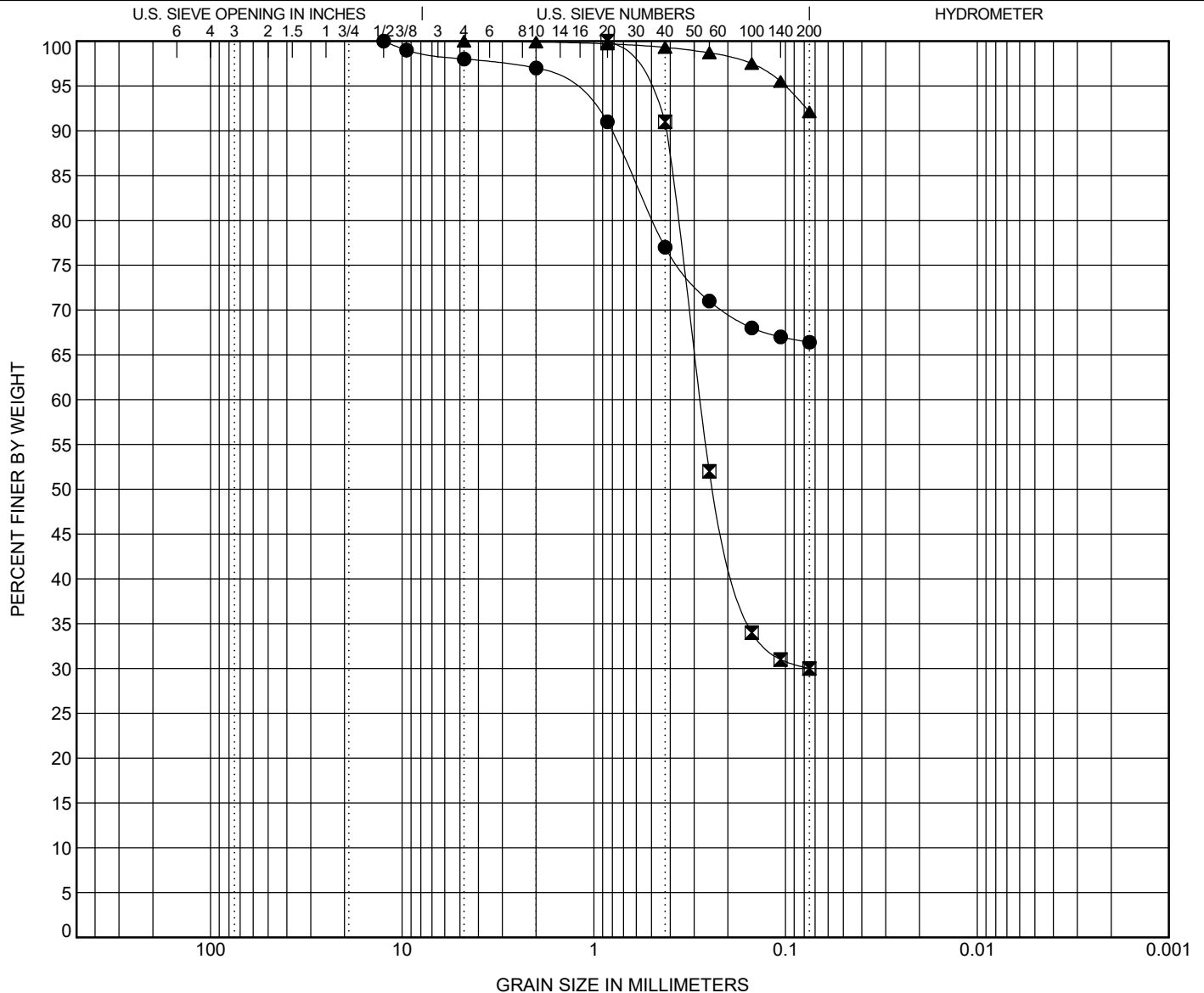


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-113	19.1	SANDY ELASTIC SILT(MH)					78	39	39		
☒ G-113	29.1	SILTY SAND(SM)					NP	NP	NP		
▲ G-113	39.1	ELASTIC SILT(MH)					64	55	9		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-113	19.1	12.5				2.0	31.6	66.4			
☒ G-113	29.1	0.85	0.279	0.075		0.0	70.0	30.0			
▲ G-113	39.1	4.75				0.0	7.9	92.1			

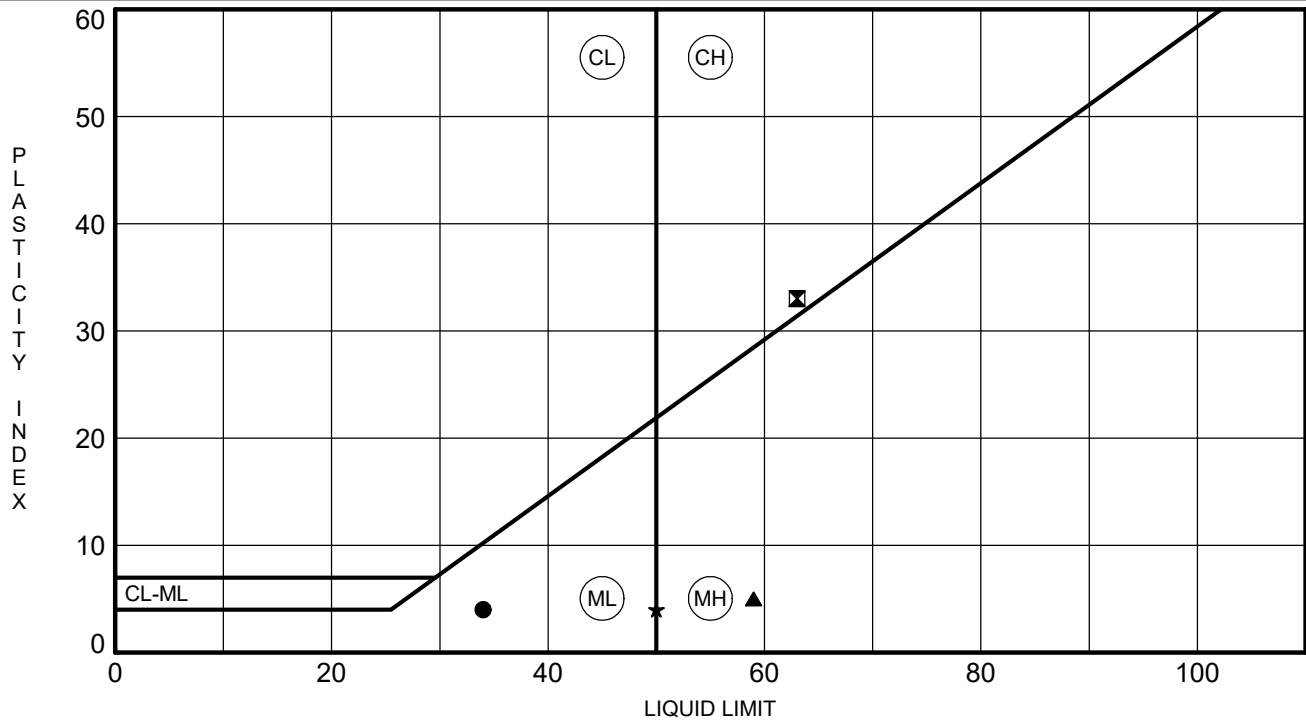
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ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



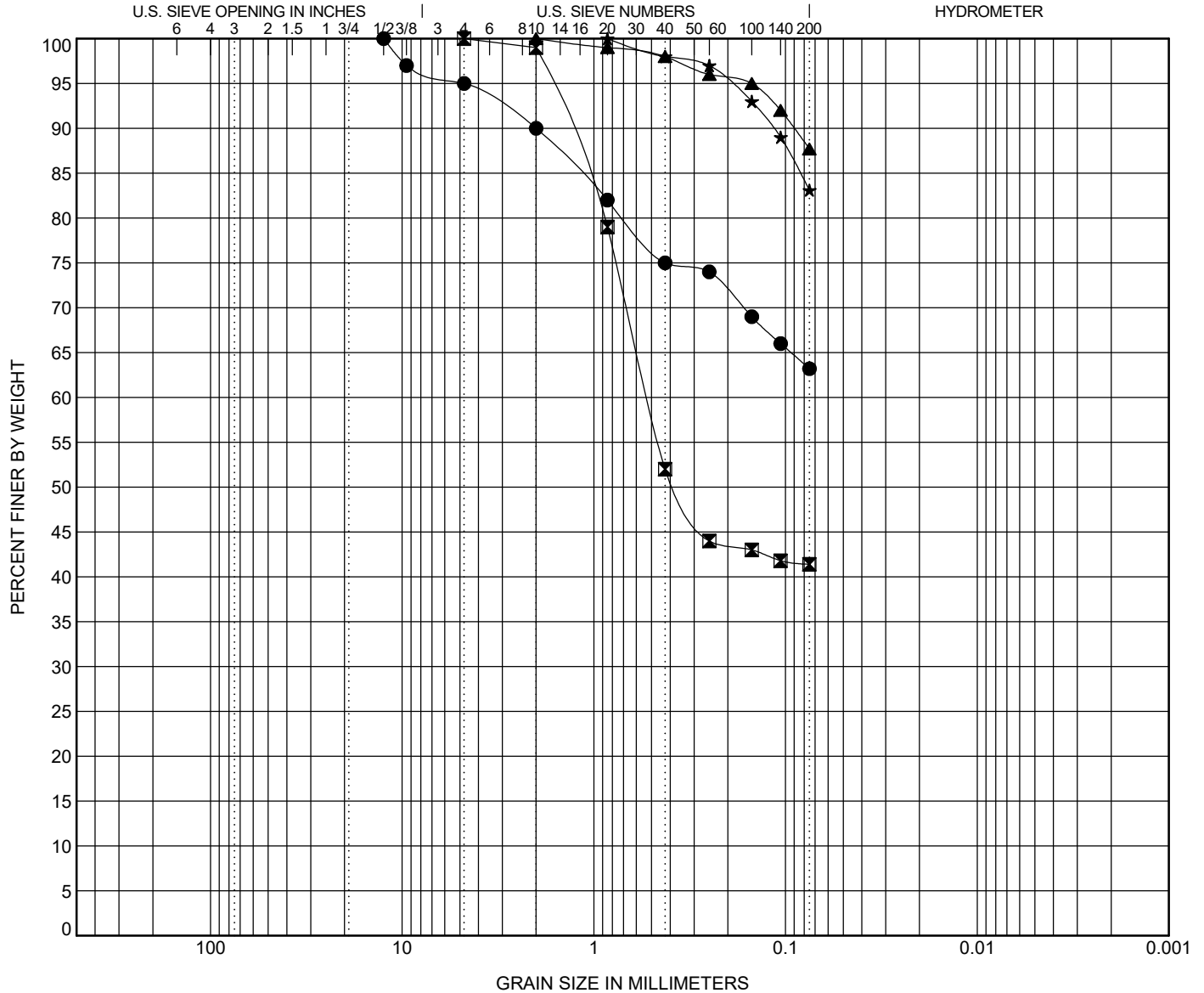


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

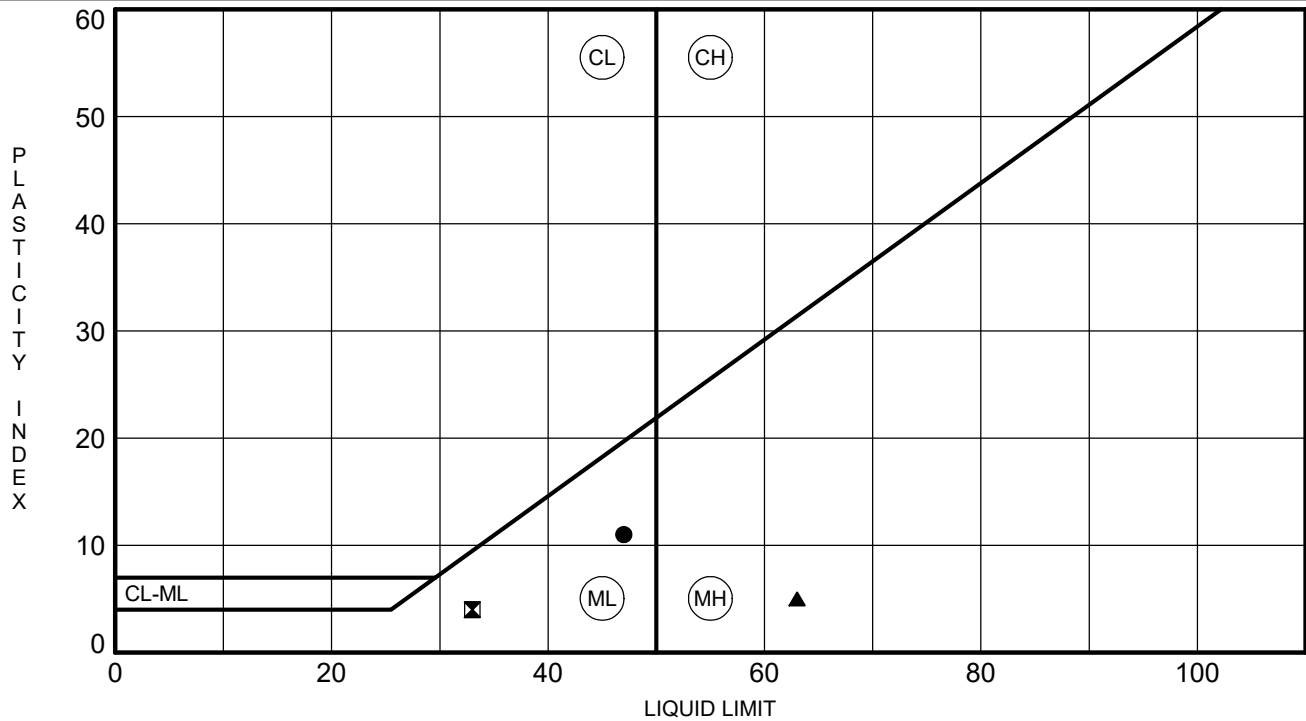
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-114	4.0	SANDY SILT(ML)					34	30	4		
☒ G-114	19.2	CLAYEY SAND(SC)					63	30	33		
▲ G-114	34.2	ELASTIC SILT(MH)					59	54	5		
★ G-114	49.2	ELASTIC SILT with SAND(MH)					50	46	4		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-114	4.0	12.5				5.0	31.8	63.2			
☒ G-114	19.2	4.75	0.522			0.0	58.6	41.4			
▲ G-114	34.2	2				0.0	12.3	87.7			
★ G-114	49.2	0.85				0.0	16.9	83.1			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



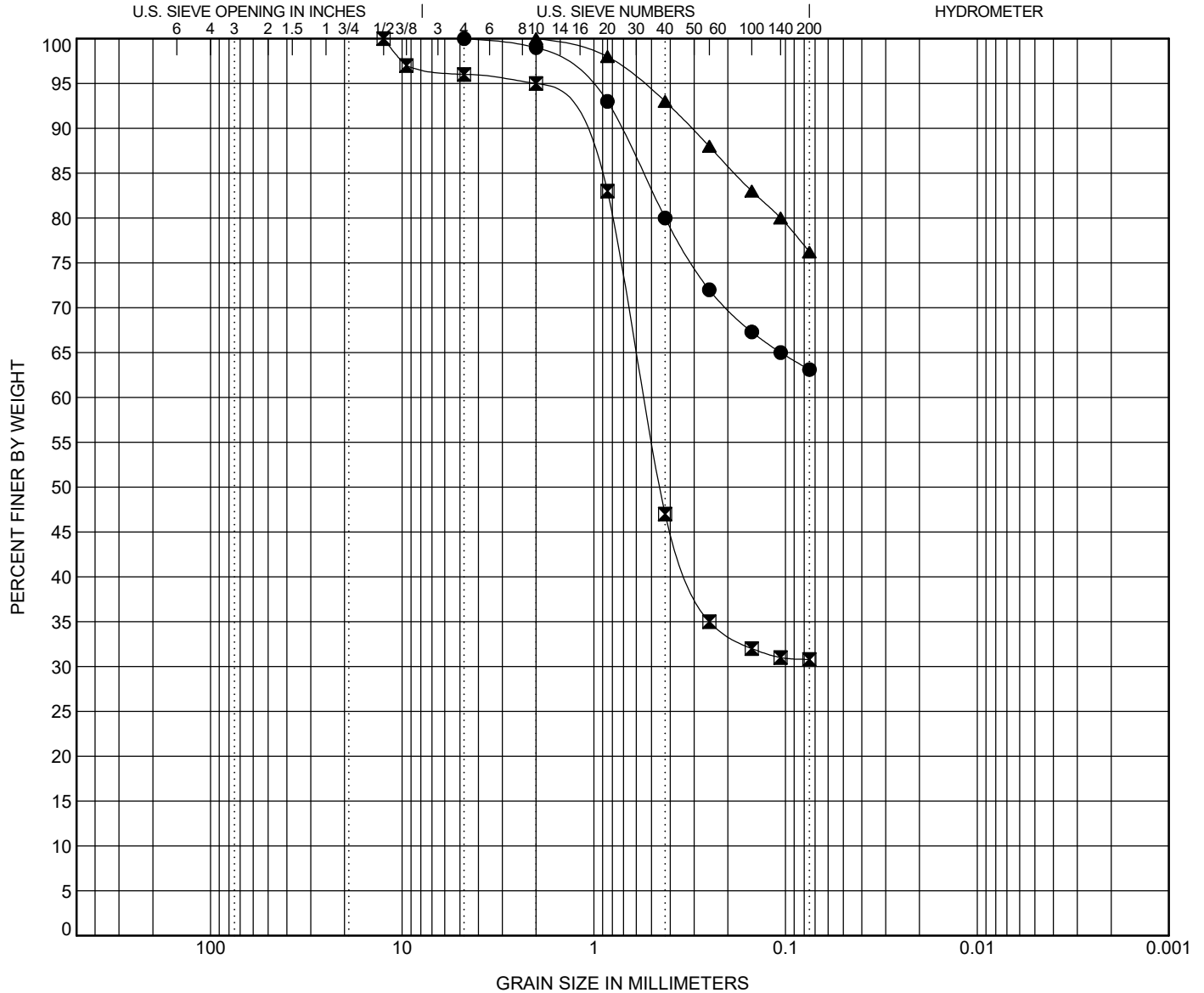


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

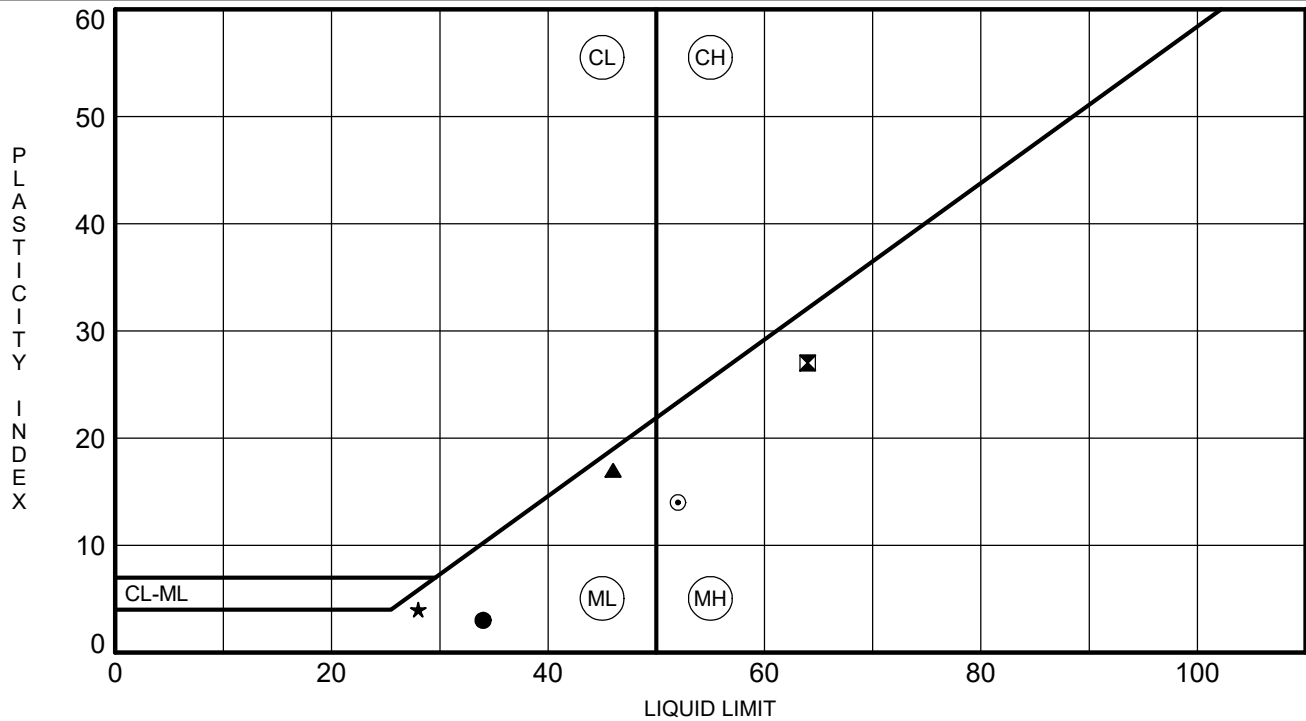
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-116	14.0	SANDY SILT(ML)					47	36	11		
☒ G-116	29.0	SILTY SAND(SM)					33	29	4		
▲ G-116	44.0	ELASTIC SILT with SAND(MH)					63	58	5		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-116	14.0	4.75				0.0	36.9	63.1			
☒ G-116	29.0	12.5	0.546			4.0	65.2	30.8			
▲ G-116	44.0	2				0.0	23.8	76.2			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



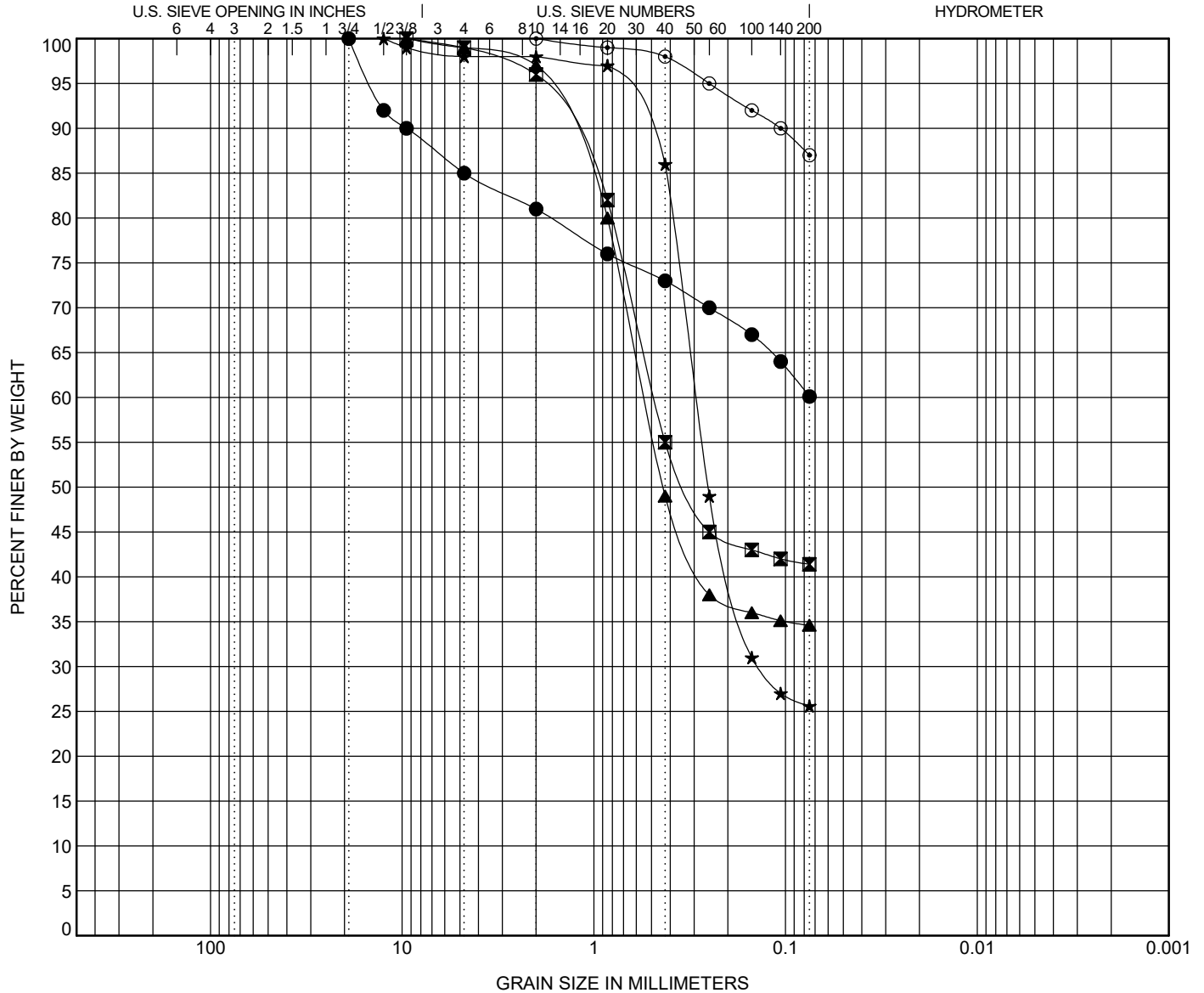


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

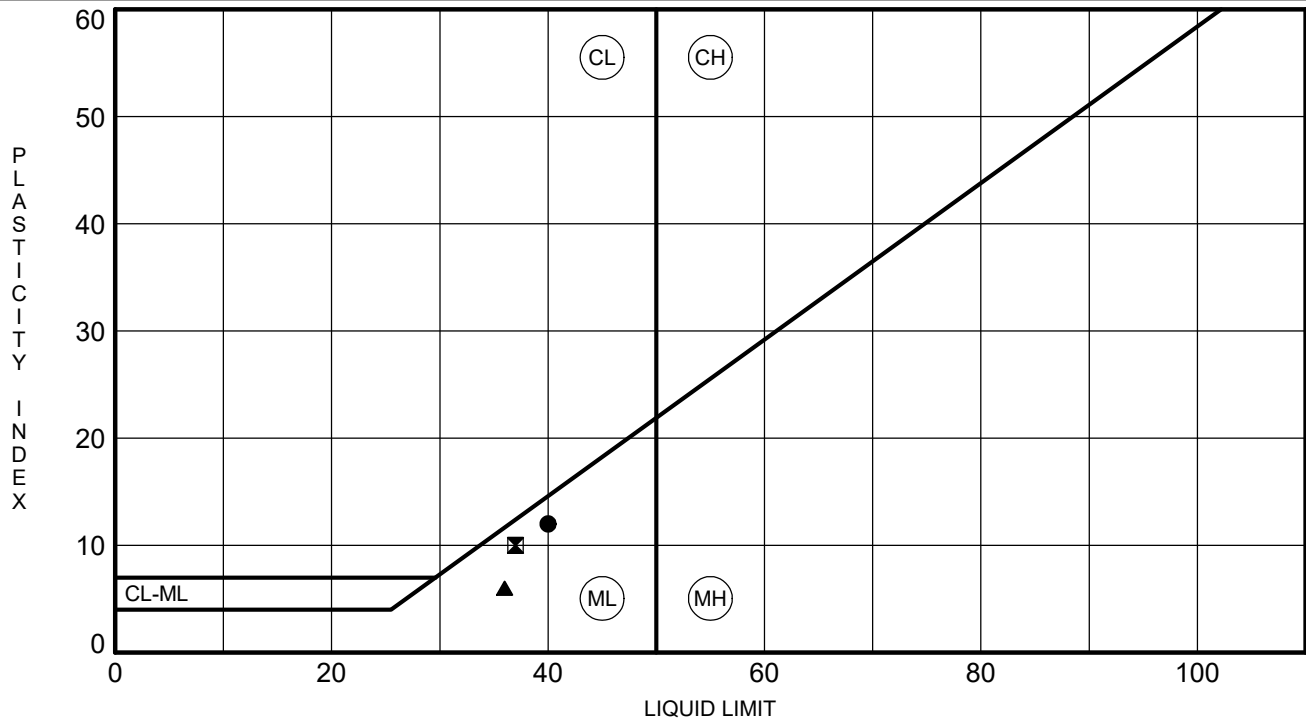
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-117	6.0	SANDY SILT with GRAVEL(ML)					34	31	3		
☒ G-117	14.3	SILTY SAND(SM)					64	37	27		
▲ G-117	24.3	SILTY SAND(SM)					46	29	17		
★ G-117	34.3	SILTY SAND(SM)					28	24	4		
◎ G-117	39.3	ELASTIC SILT(MH)					52	38	14		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-117	6.0	19				15.0	24.9	60.1			
☒ G-117	14.3	9.5	0.483			1.0	57.6	41.4			
▲ G-117	24.3	9.5	0.544			1.0	64.4	34.6			
★ G-117	34.3	12.5	0.293	0.138		2.0	72.4	25.6			
◎ G-117	39.3	2				0.0	13.0	87.0			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



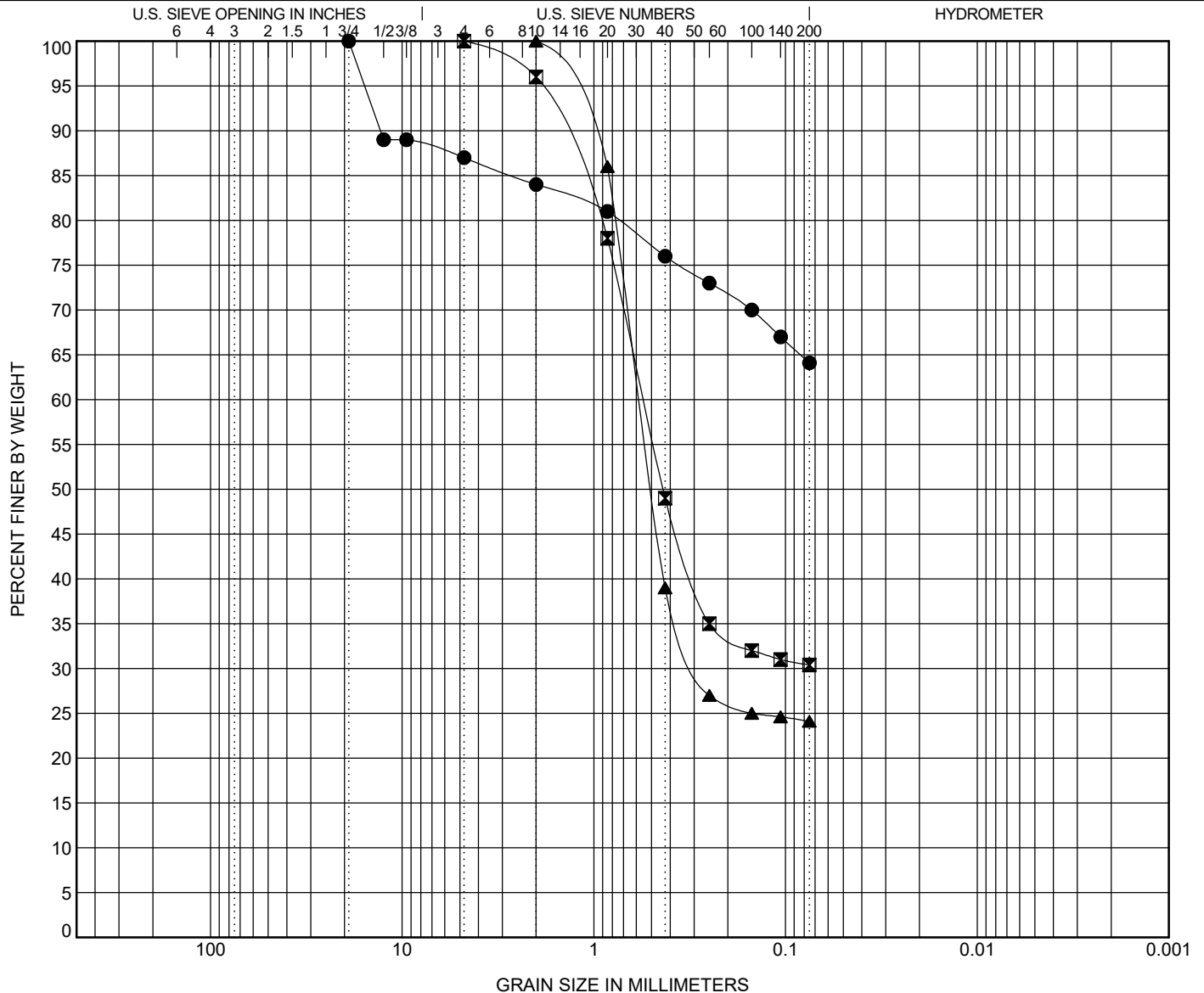


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

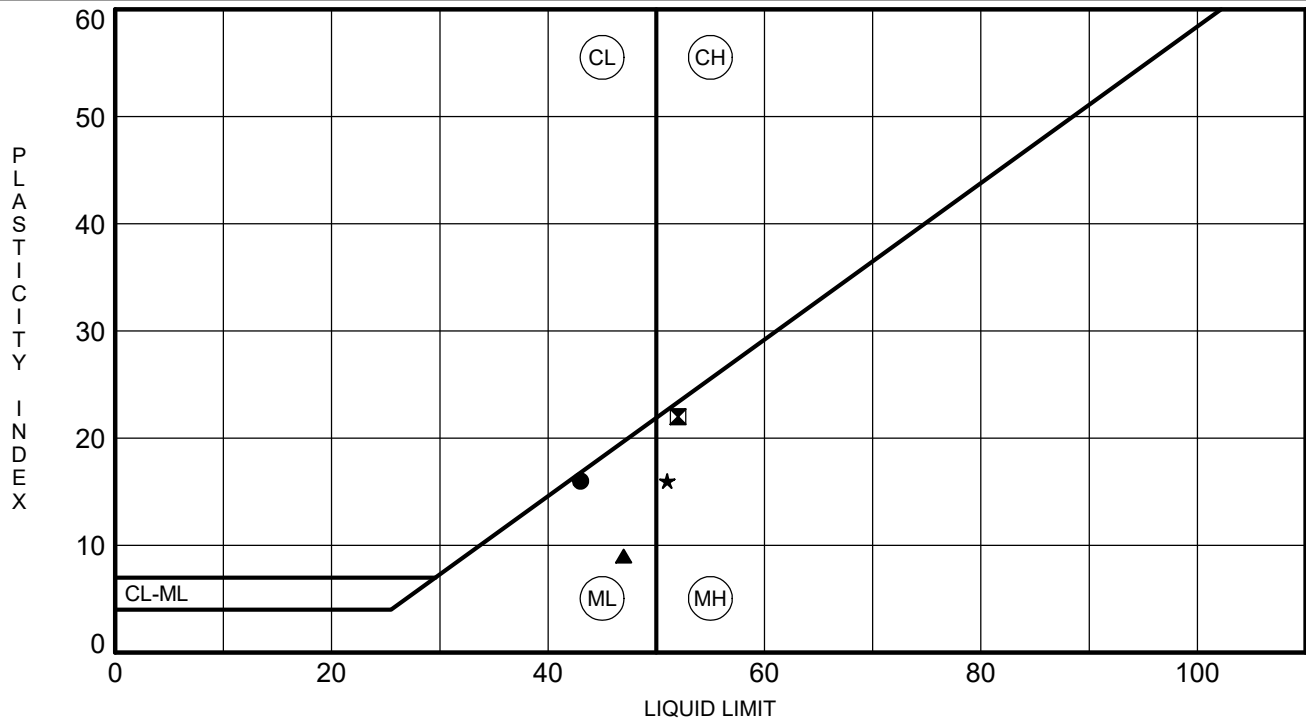


ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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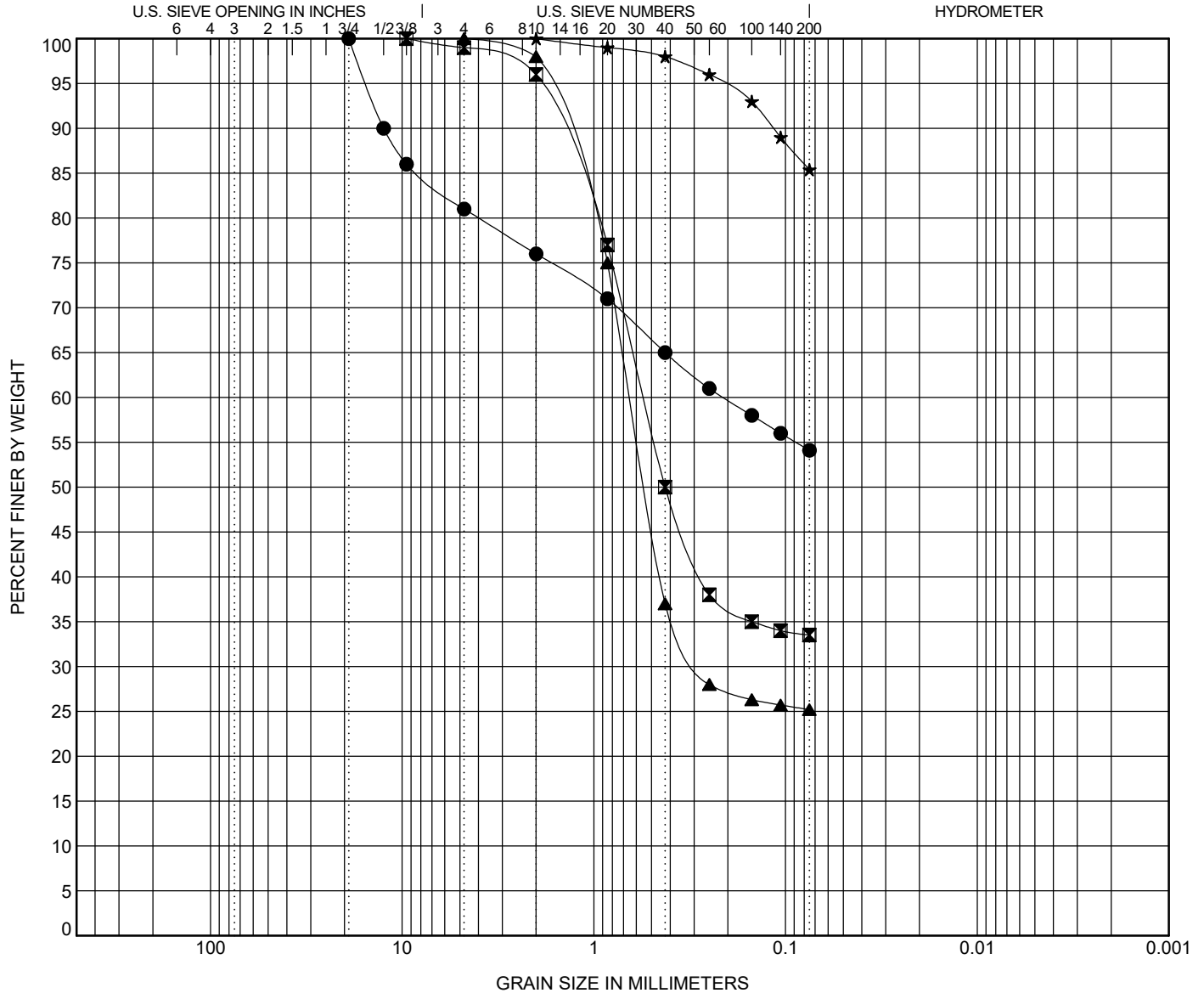


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

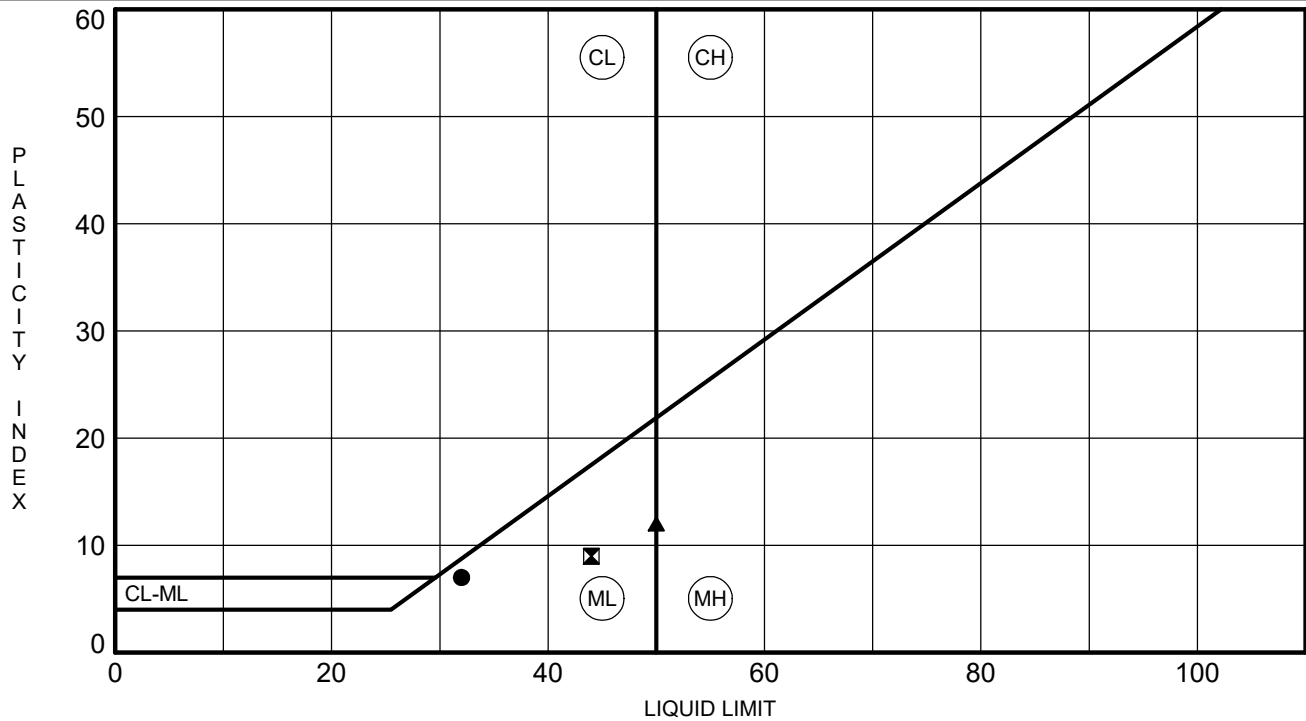


ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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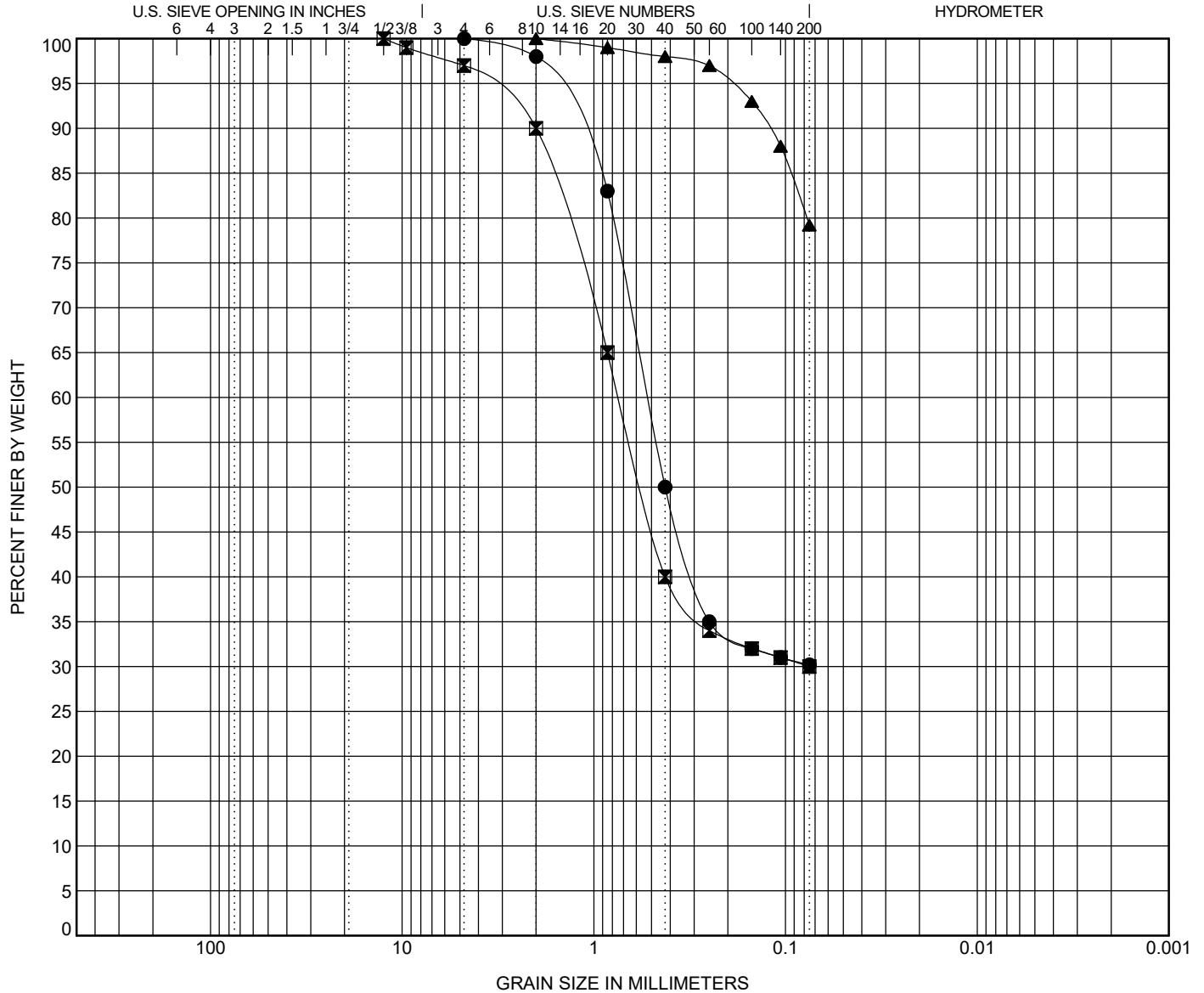


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

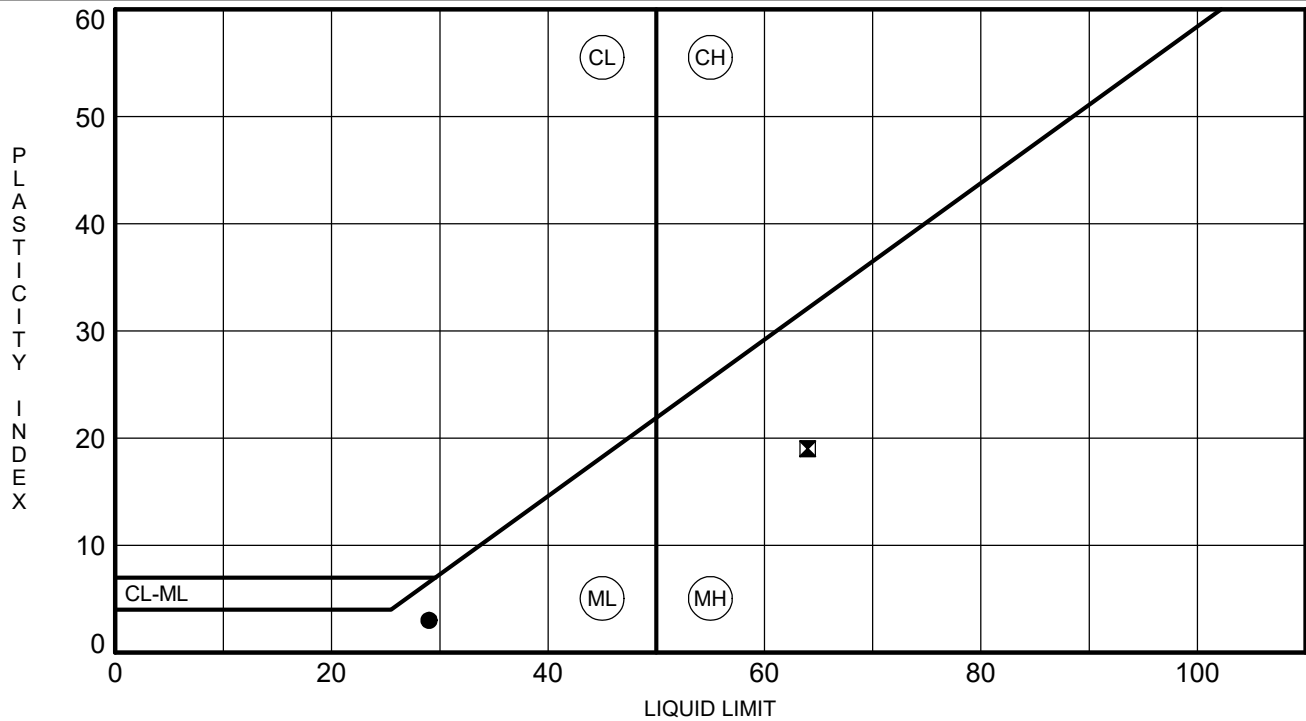
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-123	8.0	SILTY SAND(SM)					32	25	7		
■ G-123	19.3	SILTY SAND(SM)					44	35	9		
▲ G-123	34.3	ELASTIC SILT with SAND(MH)					50	38	12		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-123	8.0	4.75	0.524			0.0	69.8	30.2			
■ G-123	19.3	12.5	0.74	0.075		3.0	67.0	30.0			
▲ G-123	34.3	2				0.0	20.8	79.2			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

[illegible]

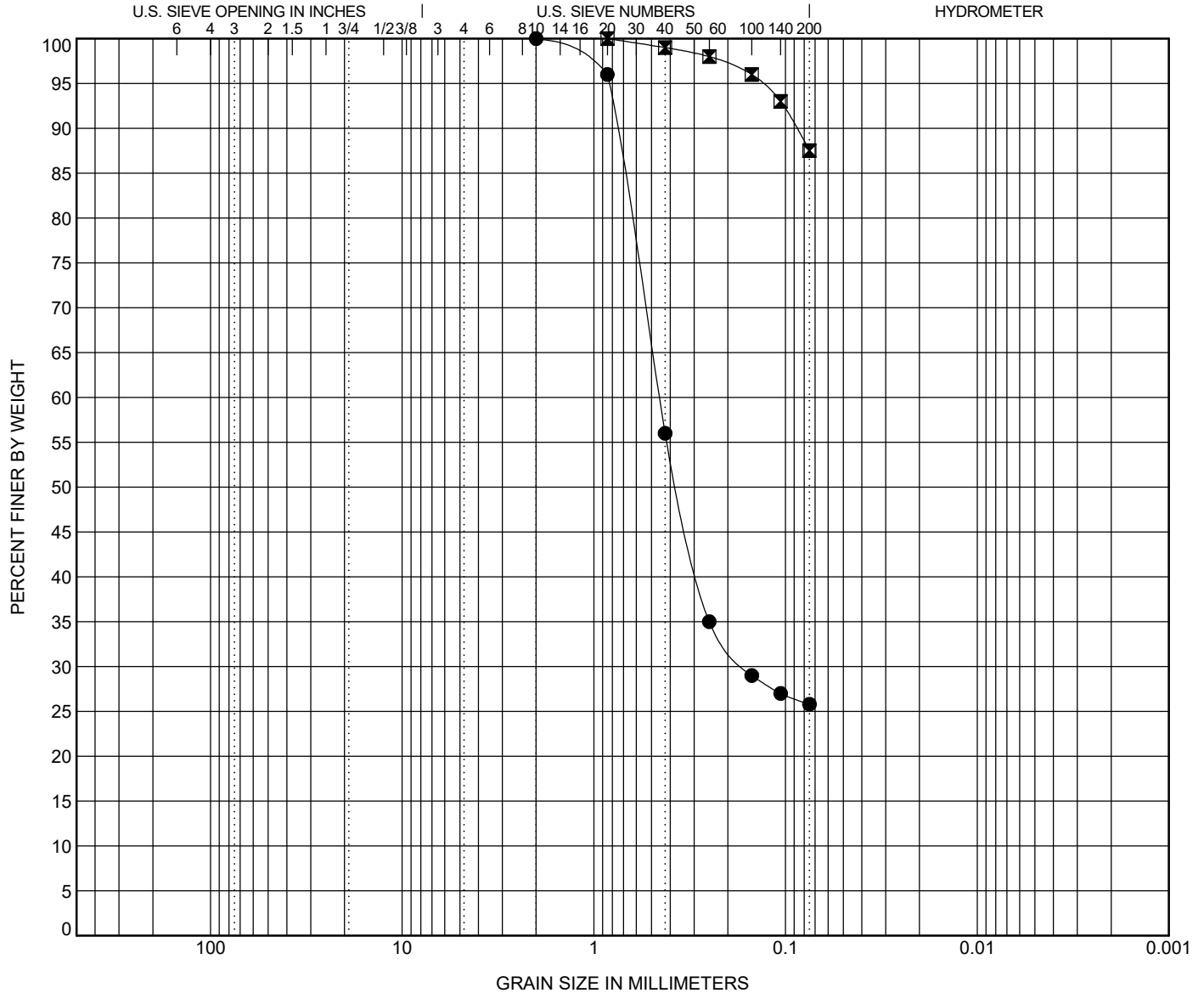


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

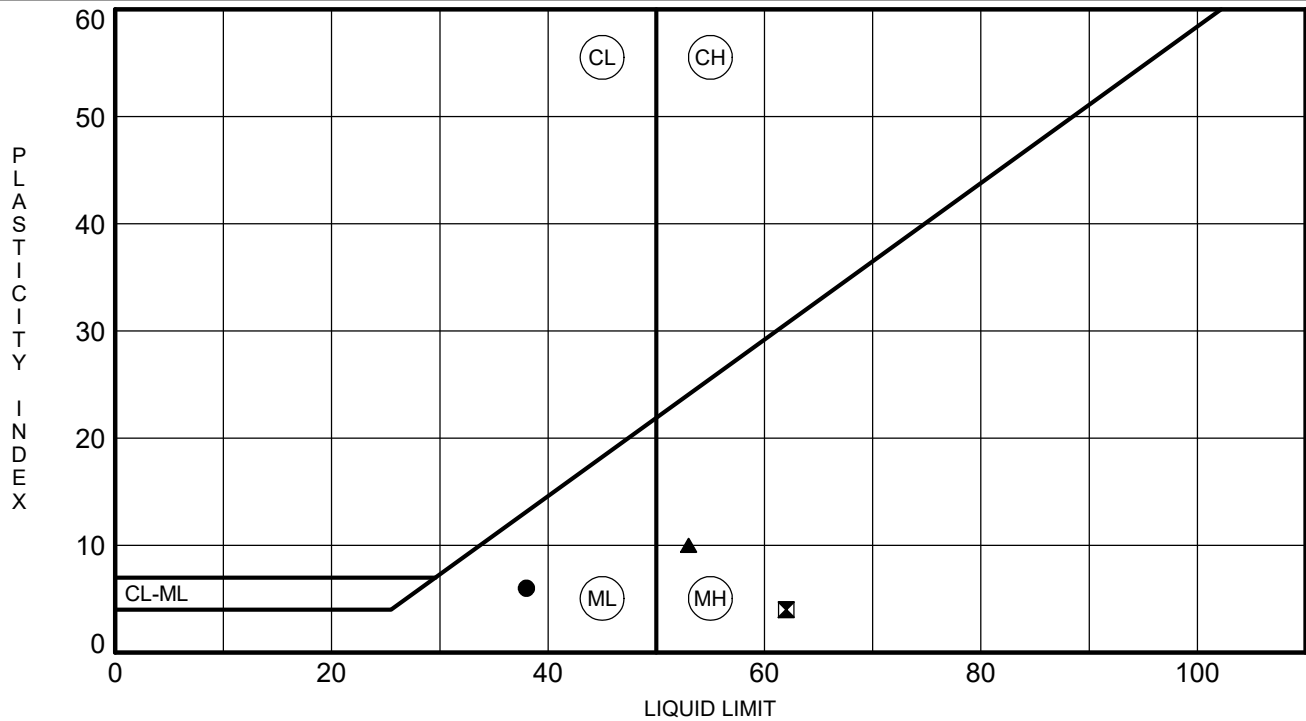
BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-134	18.7	SILTY SAND(SM)					29	26	3		
☒ G-134	33.7	ELASTIC SILT(MH)					64	45	19		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-134	18.7	2	0.456	0.163		0.0	74.2	25.8			
☒ G-134	33.7	0.85				0.0	12.5	87.5			

ATTERBERG LIMITS' RESULTS

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland

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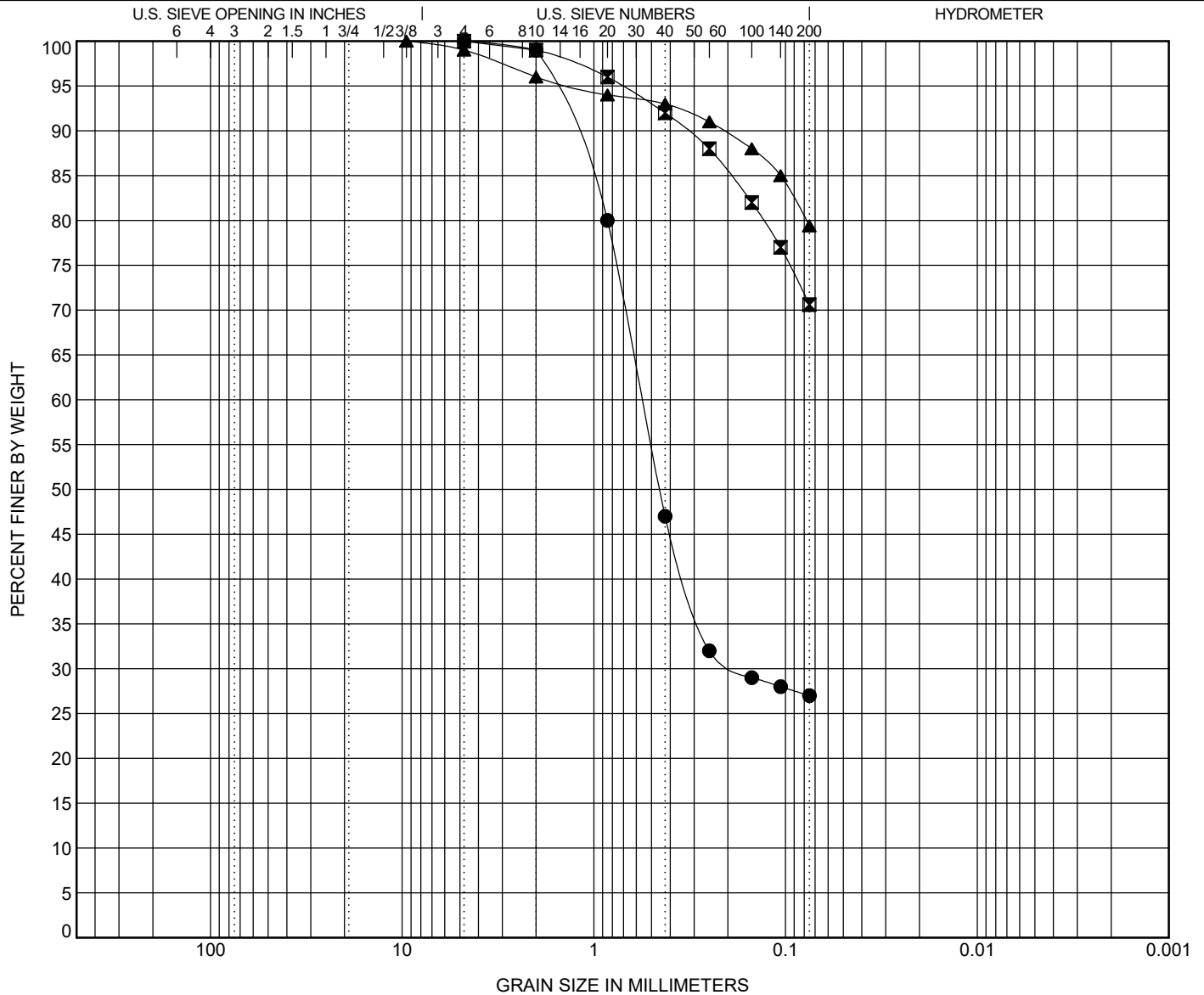


GRAIN SIZE DISTRIBUTION

PROJECT ID P039719

PROJECT NAME Carolina Crossroads Phase 2

PROJECT COUNTY Richland



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE	DEPTH	Classification					LL	PL	PI	Cc	Cu
● G-135	13.7	SILTY SAND(SM)					38	32	6		
■ G-135	23.7	ELASTIC SILT with SAND(MH)					62	58	4		
▲ G-135	38.7	ELASTIC SILT with SAND(MH)					53	43	10		
BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay	
● G-135	13.7	4.75	0.558	0.178		0.0	73.0	27.0			
■ G-135	23.7	4.75				0.0	29.4	70.6			
▲ G-135	38.7	9.5				1.0	19.6	79.4			

Client

Infrastructure Consulting & Engineering, PLLC

Project

Carolina Crossroads Phase 2

Sample Submitted By: Terracon (73)


Date Received: 3/4/2022

Lab No.: 22-0219

Results of Corrosion Analysis

Sample Number	--	--
Sample Location	G-138	G-129
Sample Depth (ft.)	0.0-7.0	0.0-5.0
pH Analysis, ASTM G 51	6.38	6.48
Water Soluble Sulfate (SO ₄), ASTM C 1580 (mg/kg)	36	45
Chlorides, ASTM D 512, (mg/kg)	47	30
Saturated Minimum Resistivity, ASTM G 187, (ohm-cm)	24735	34920

Analyzed By:



Nathan Campo
Engineering Technician II

The tests were performed in general accordance with applicable ASTM and AWWA test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

APPENDIX D – ROADWAY

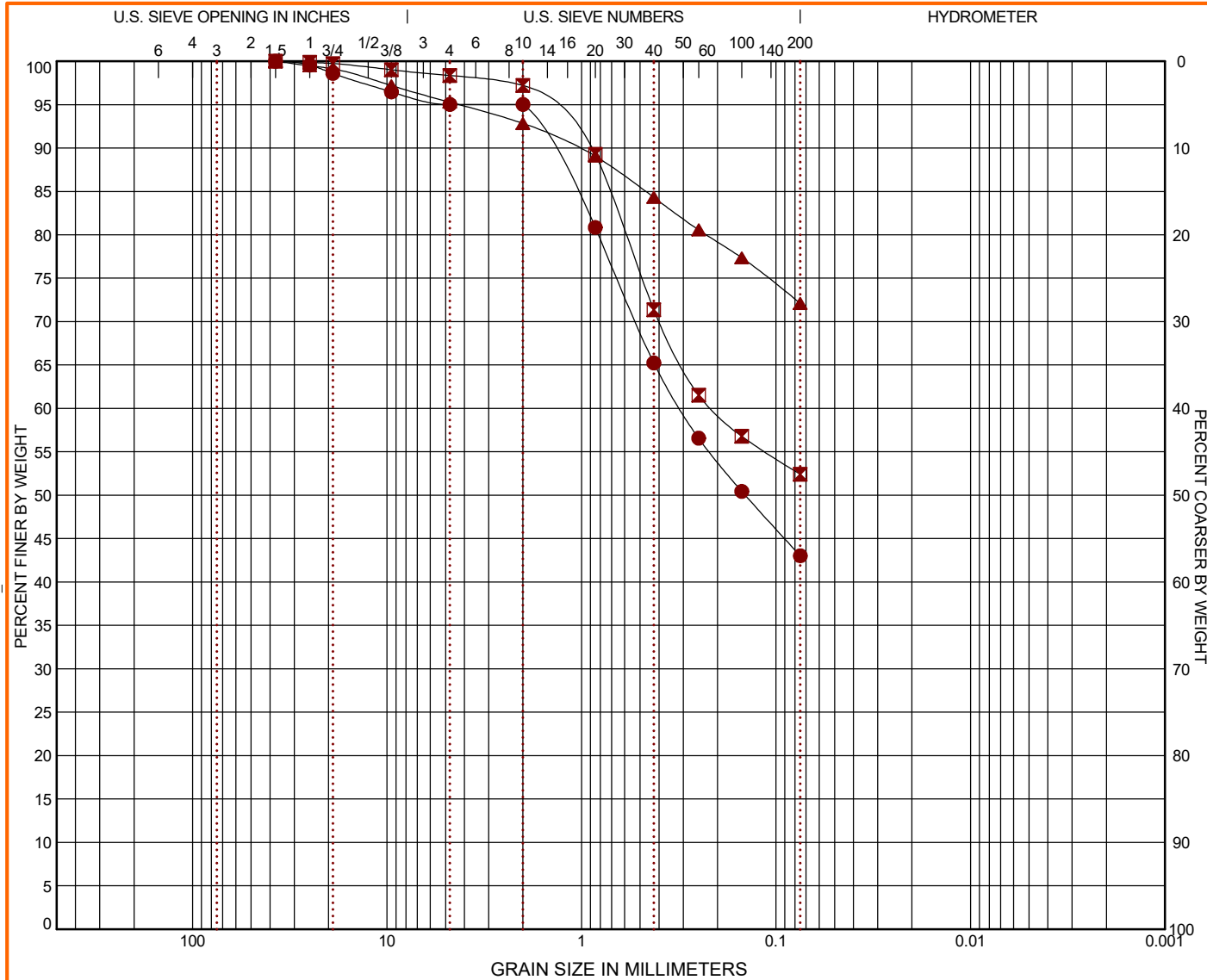
SECTION 4 LABORATORY TEST RESULTS

SECTION 4B BULK SAMPLES

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: AASHTO DESC-1 73225031 CAROLINA CROSSROADS GPJ TERRACON_DATATEMPLATE.GDT 4/20/22



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

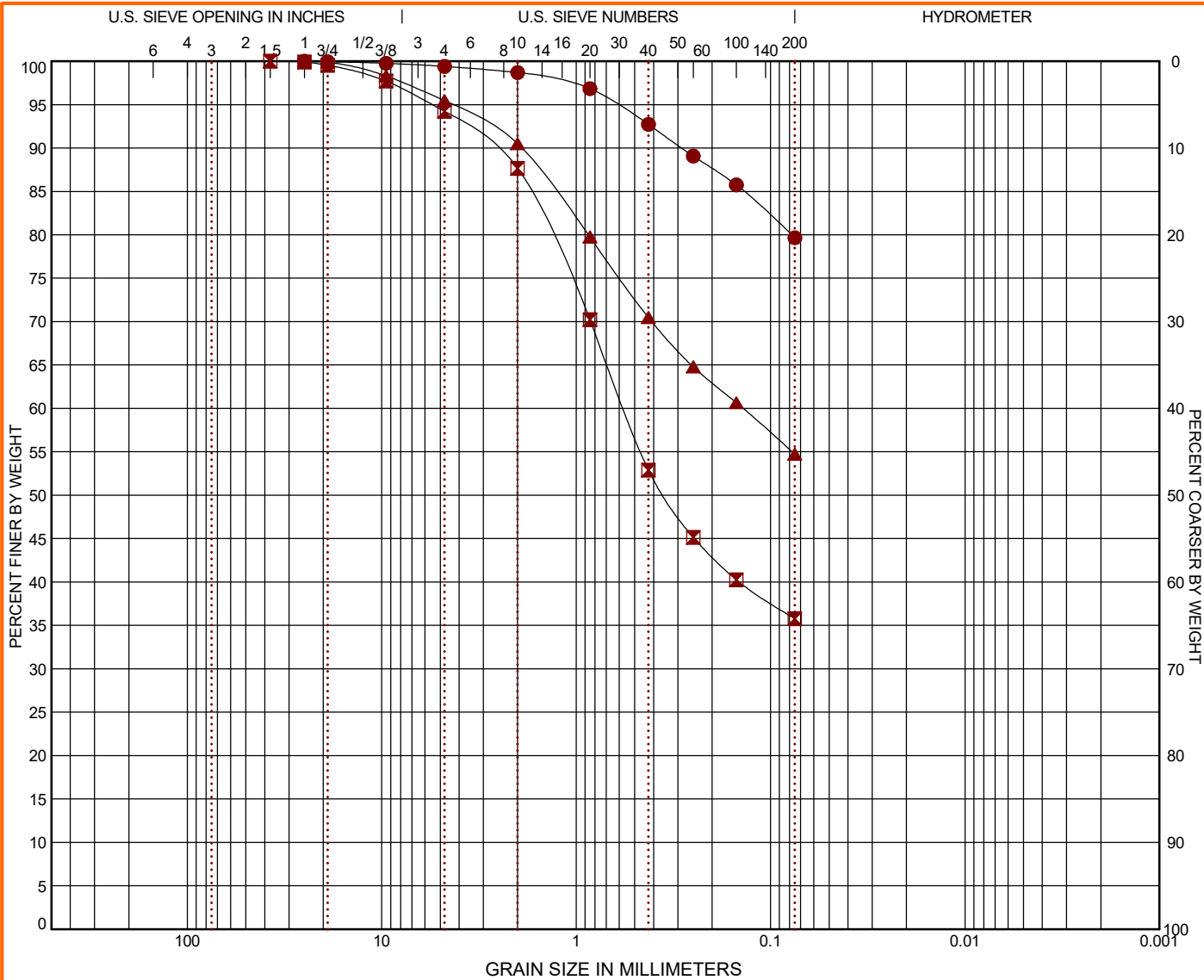
BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-022 Bulk	0 - 5	0.0	5.0	52.0		43.0		SC
☒ G-044 Bulk	0 - 10	0.0	1.7	45.9		52.4		CH
▲ G-048 Bulk	0 - 5	0.0	4.7	23.2		72.1		CH

GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.308	0.212		1 1/2"	100.0	1 1/2"	100.0	1 1/2"	100.0
D ₃₀				1"	99.55	1"	99.86	1"	99.48
D ₁₀				3/4"	98.6	3/4"	99.73	3/4"	99.12
				3/8"	96.46	3/8"	99.01	3/8"	97.19
				#4	95.02	#4	98.34	#4	95.28
				#10	95.02	#10	97.19	#10	92.83
				#20	80.85	#20	89.28	#20	89.06
				#40	65.24	#40	71.35	#40	84.31
				#60	56.57	#60	61.54	#60	80.57
				#100	50.44	#100	56.78	#100	77.35
				#200	43.02	#200	52.41	#200	72.1
COEFFICIENTS				REMARKS					
	●	☒	▲						
C _c									
C _u									

PROJECT: Carolina Crossroads Phase 2	<p>521 Clemson Rd Columbia, SC</p>	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

GRAIN SIZE DISTRIBUTION

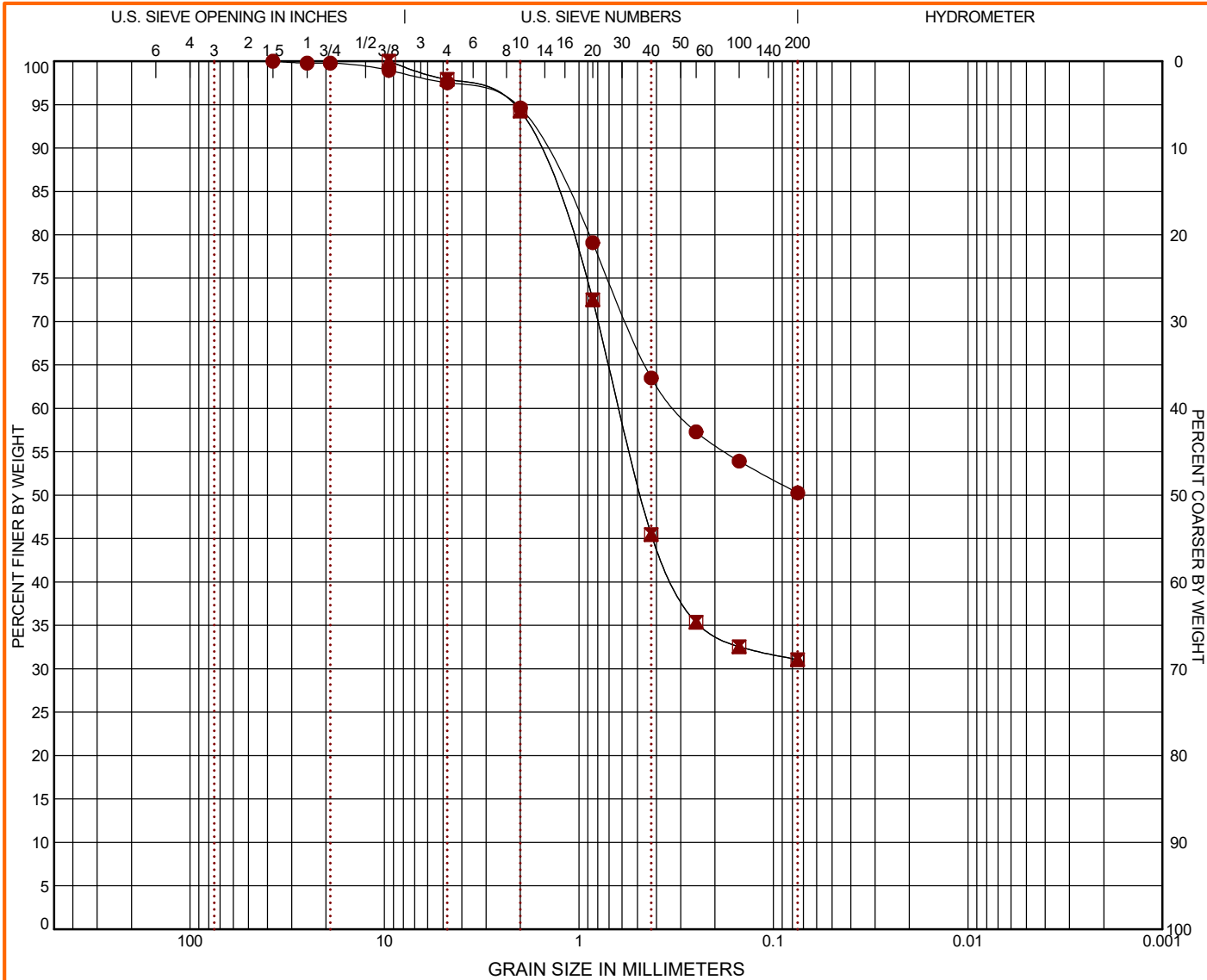
ASTM D422 / ASTM C136



GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: AASHTO DESC-1 73225031 CAROLINA CROSSROADS GPJ TERRACON_DATATEMPLATE.GDT 4/20/22



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-024 Bulk	0 - 15	0.0	2.5	47.3		50.3		CH
☒ G-129A	20 - 22	0.0	2.1	66.8		31.1		SC
▲ G-129A	22 - 24	0.0	2.1	66.8		31.1		SC

GRAIN SIZE				SOIL DESCRIPTION			
	●	☒	▲	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.315	0.617	0.617	1 1/2"	100.0	3/8"	100.0
D ₃₀				1"	99.78	#4	97.89
D ₁₀				3/4"	99.78	#10	94.26
				3/8"	98.95	#20	72.5
				#4	97.52	#40	45.47
				#10	94.62	#60	35.36
				#20	79.09	#100	32.54
				#40	63.51	#200	31.06
				#60	57.3		
				#100	53.92		
				#200	50.26		
COEFFICIENTS				REMARKS			
	●	☒	▲				
C _c				●	A-7-6 (15)		
C _u				☒	A-2-7 (4)		
				▲	A-2-7 (4)		

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

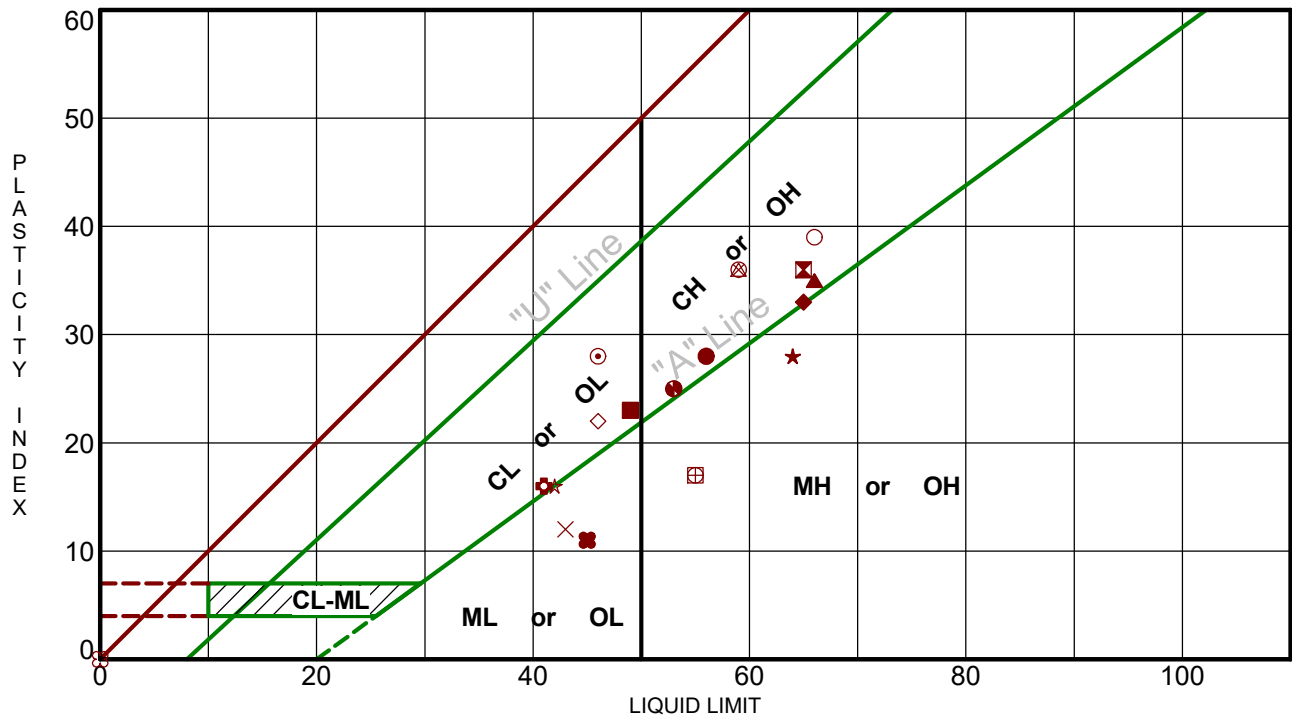


PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

ATTERBERG LIMITS RESULTS

ASTM D4318



Boring ID	Depth	LL	PL	PI	Fines	AASHTO	Description
● G-022 Bulk	0 - 5	56	28	28	43.0	A-7-6 (7)	CLAYEY SAND (SC)
⊠ G-044 Bulk	0 - 10	65	29	36	52.4	A-7-6 (15)	SANDY FAT CLAY (CH)
▲ G-048 Bulk	0 - 5	66	31	35	72.1	A-7-5 (26)	FAT CLAY with SAND (CH)
★ G-026 Bulk	0 - 15	64	36	28	79.7	A-7-5 (26)	ELASTIC SILT with SAND (MH)
⊙ G-023 Bulk	0 - 15	46	18	28	35.8	A-7-6 (4)	CLAYEY SAND (SC)
⊕ G-104 Bulk	0 - 10	41	25	16	54.7	A-7-6 (7)	SANDY LEAN CLAY (CL)
○ G-024 Bulk	0 - 15	66	27	39	50.3	A-7-6 (15)	SANDY FAT CLAY (CH)
△ G-129A	20 - 22	59	23	36	31.1	A-2-7 (4)	CLAYEY SAND (SC)
⊗ G-129A	22 - 24	59	23	36	31.1	A-2-7 (4)	CLAYEY SAND (SC)
⊕ G-138A	22 - 24	55	38	17	81.4	A-7-5 (17)	ELASTIC SILT with SAND (MH)
□ G-138A	24 - 26	55	38	17	81.4	A-7-5 (17)	ELASTIC SILT with SAND (MH)
⊕ G-069A	6 - 8	53	28	25	51.1	A-7-6 (10)	SANDY FAT CLAY (CH)
⊕ G-069A	8 - 10	53	28	25	51.1	A-7-6 (10)	SANDY FAT CLAY (CH)
★ G-130	19.1 - 20.6	42	26	16	28.3	A-2-7 (1)	SILTY SAND (SM)
⊗ G-130	29.1 - 30.6	NP	NP	NP	26.6	A-2-4 (0)	SILTY SAND (SM)
■ G-130	44.1 - 45.6	49	26	23	82.3	A-7-6 (20)	LEAN CLAY with SAND (CL)
◆ G-131	8 - 10	65	32	33	42.6	A-7-5 (9)	CLAYEY SAND (SC)
◇ G-131	19.2 - 20.7	46	24	22	30.5	A-2-7 (2)	CLAYEY SAND (SC)
× G-131	34.2 - 35.7	43	31	12	27.2	A-2-7 (0)	SILTY SAND (SM)
⊕ G-131	54.2 - 55.7	45	34	11	58.1	A-7-5 (6)	SANDY SILT (ML)

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

PROJECT NUMBER: 73225031

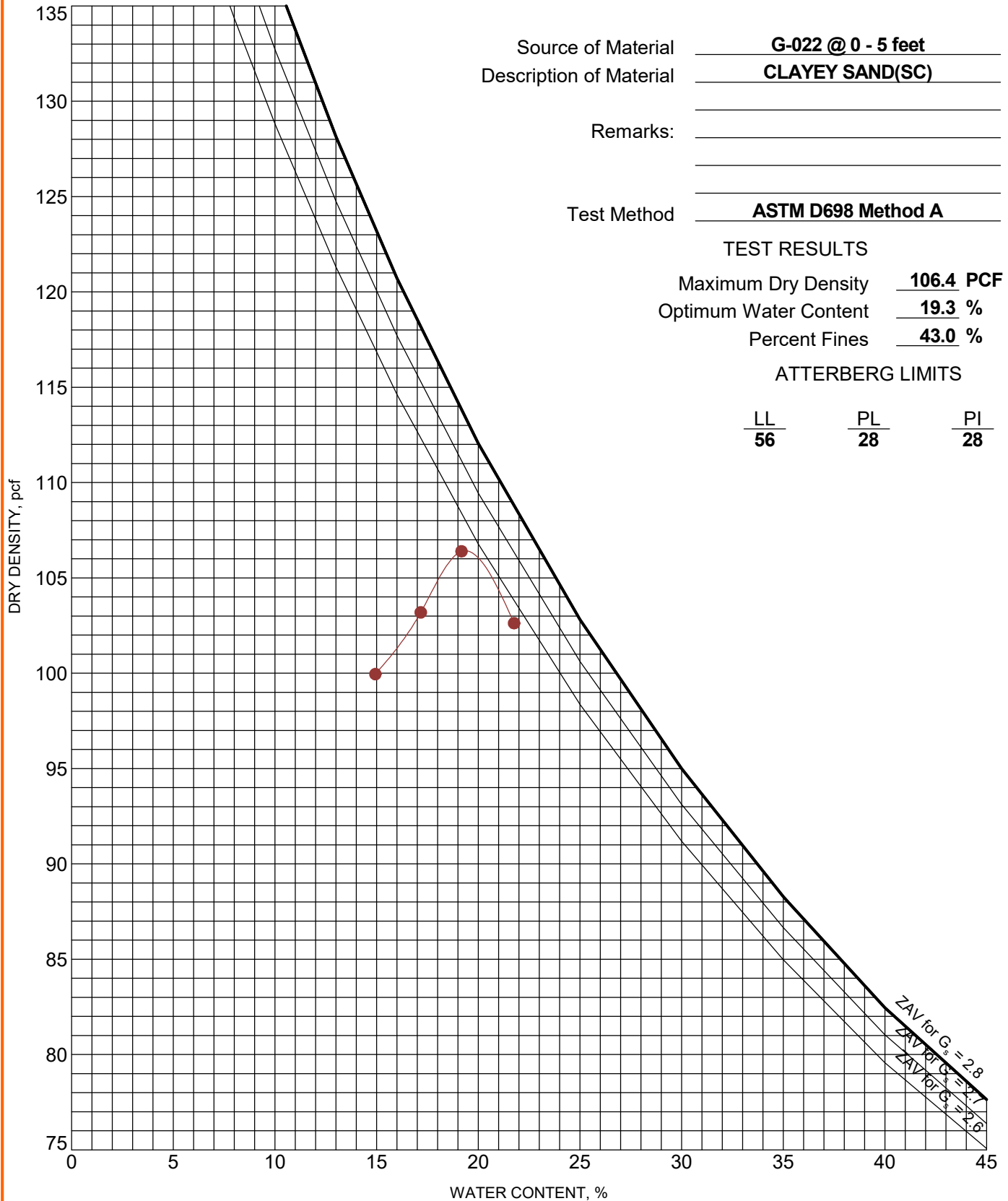
CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ATTERBERG LIMITS-AASHTO 73225031 CAROLINA CROSSROADS.GPJ TERRACON_DATATEMPLATE.GDT 4/20/22

MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. COMPACTION - V2 73225031 CAROLINA CROSSROADS.GPJ TERRACON_DATATEMPLATE.GDT 3/16/22



PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

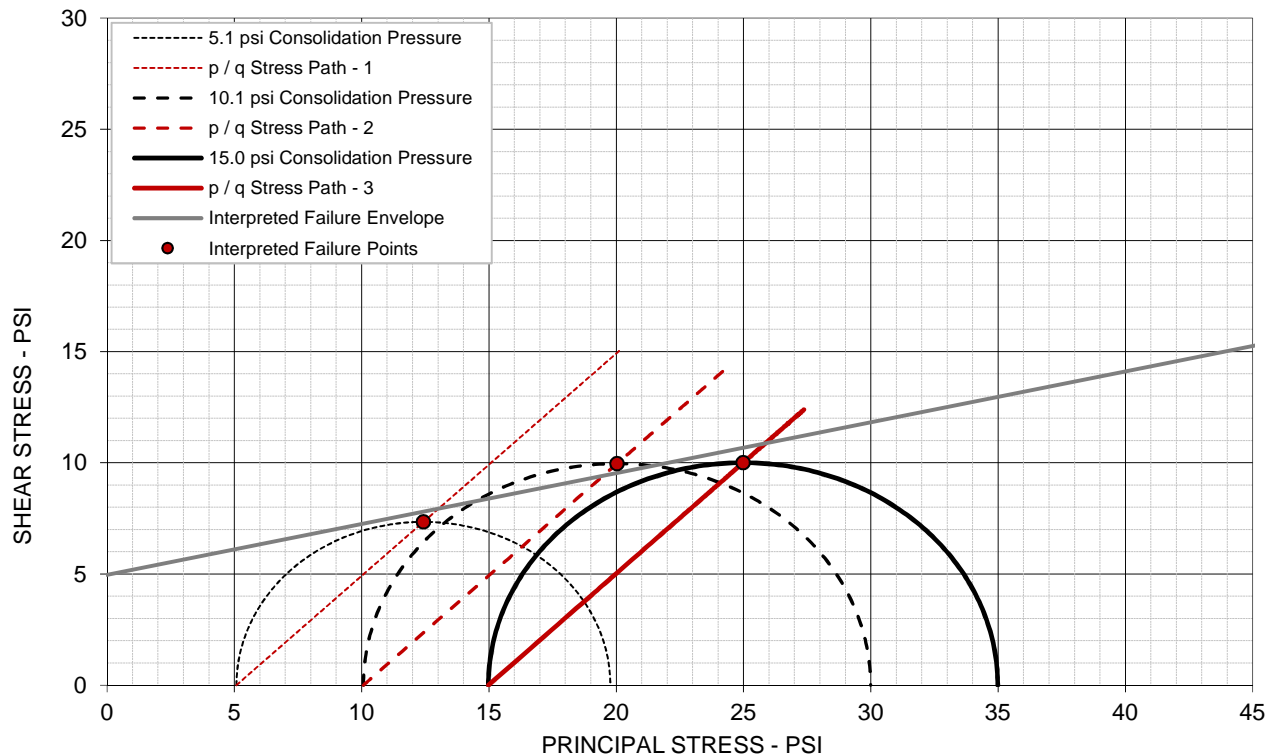
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting &
Engineering, PLLC
Charleston, SC

ICU TRIAXIAL COMPRESSION TEST

ASTM D4767 / AASHTO T297

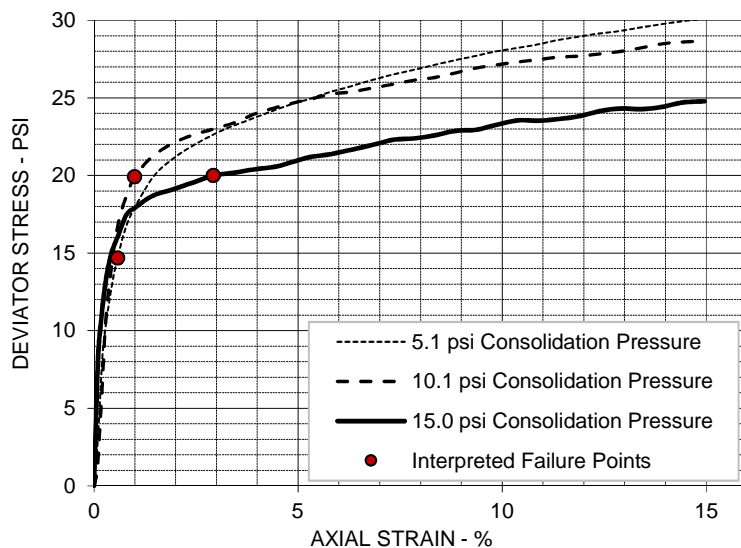
Failure Criteria: Max Obliquity (s1': s3')



TOTAL STRESS PARAMETERS

$\phi = 12.9$ deg

$c = 5.0$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	20.2	20.4	20.2
Dry Density - pcf	102.8	103.9	102.7
Diameter - inches	2.79	2.78	2.79
Height - inches	5.56	5.52	5.56

AT TEST

Final Moisture - %	22.1	22.8	23.1
Dry Density - pcf	102.8	103.9	103.8
Calculated Diameter (in.)	2.77	2.78	2.77
Height - inches	5.51	5.51	5.52
Effect. Consol. Stress - psi	5.1	10.1	15.0
Failure Stress - psi	14.69	19.92	20.00
Total Pore Pressure - psi	51.7	53.9	59.2
Strain Rate - inches/min.	0.0006	0.0006	0.0006
Failure Strain - %	0.6	1.0	2.9
σ_1 Failure - psi	19.77	29.99	34.98
σ_3 Failure - psi	5.08	10.07	14.98

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION
 SAMPLE TYPE: Remolded
 DESCRIPTION: Clayey Sand (SC) / A-7-6 (7)
 SAMPLE ID: G-022 0-5'
 SPECIFIC GRAVITY: 2.65
 LL: 56 PL: 28 PI: 28 Percent -200: 43.0%
 Remarks: Remolded to 95% of the Standard Proctor

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2
 LOCATION: Richland and Lexington Counties, SC
 PROJECT #: 73225031
 CLIENT: Infrastructure Consulting & Engineering, PLLC
 DATE: 03/18/22

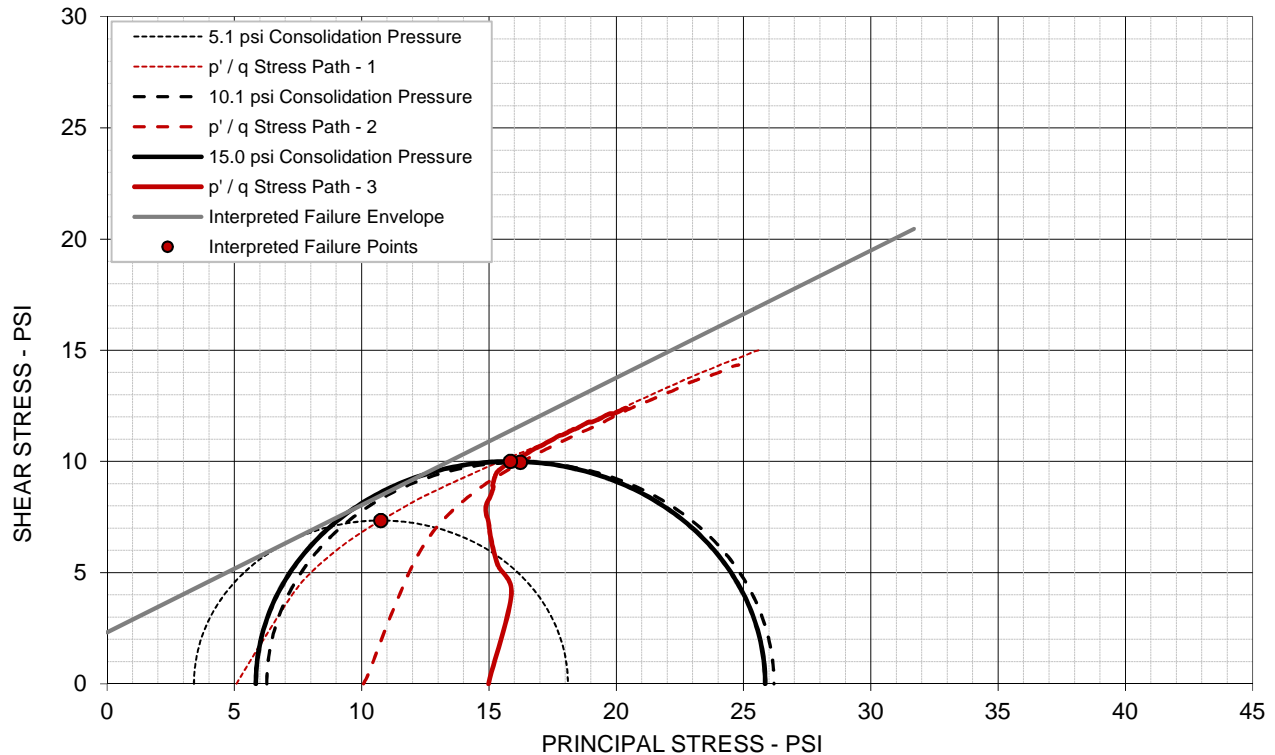
521 Clemson Road
 Columbia, SC



ICU TRIAXIAL COMPRESSION TEST

ASTM D4767 / AASHTO T297

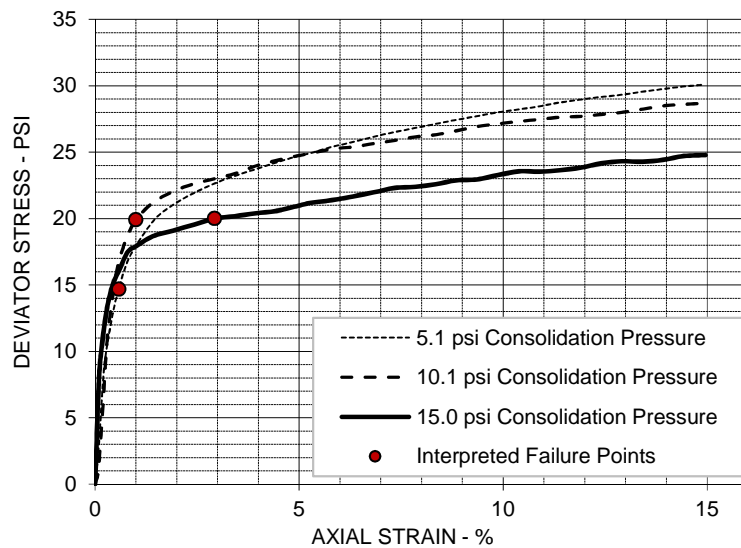
Failure Criteria: Max Obliquity ($s_1': s_3'$)



EFFECTIVE STRESS PARAMETERS

$\phi' = 29.8$ deg

$c' = 2.3$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	20.2	20.4	20.2
Dry Density - pcf	102.8	103.9	102.7
Diameter - inches	2.79	2.78	2.79
Height - inches	5.56	5.52	5.56

AT TEST

Final Moisture - %	22.1	22.8	23.1
Dry Density - pcf	102.8	103.9	103.8
Calculated Diameter (in.)	2.77	2.78	2.77
Height - inches	5.51	5.51	5.52
Effect. Consol. Stress - psi	5.1	10.1	15.0
Failure Stress - psi	14.69	19.92	20.00
Total Pore Pressure - psi	51.7	53.9	59.2
Strain Rate - inches/min.	0.0006	0.0006	0.0006
Failure Strain - %	0.6	1.0	2.9
σ_1' Failure - psi	18.10	26.20	25.85
σ_3' Failure - psi	3.41	6.28	5.84

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Remolded

DESCRIPTION: Clayey Sand (SC) / A-7-6 (7)

SAMPLE ID: G-022 0-5'

SPECIFIC GRAVITY: 2.65

LL: 56 PL: 28 PI: 28 Percent -200: 43.0%

Remarks: Remolded to 95% of the Standard Proctor

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

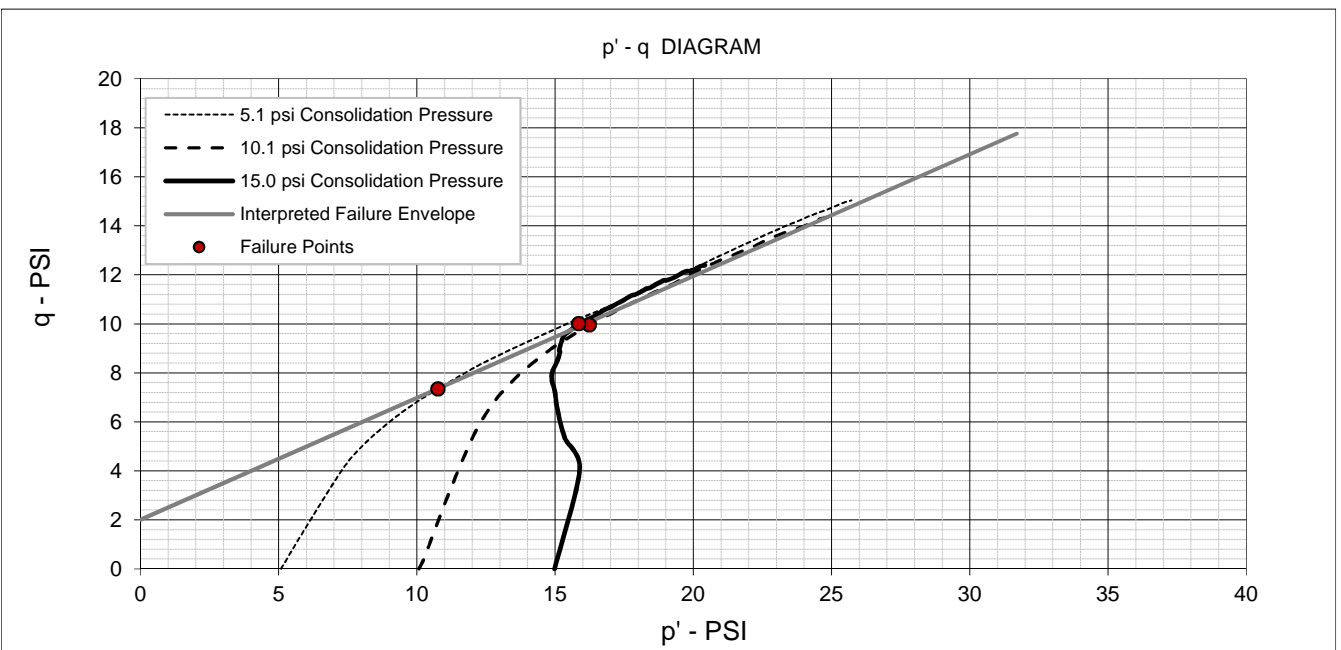
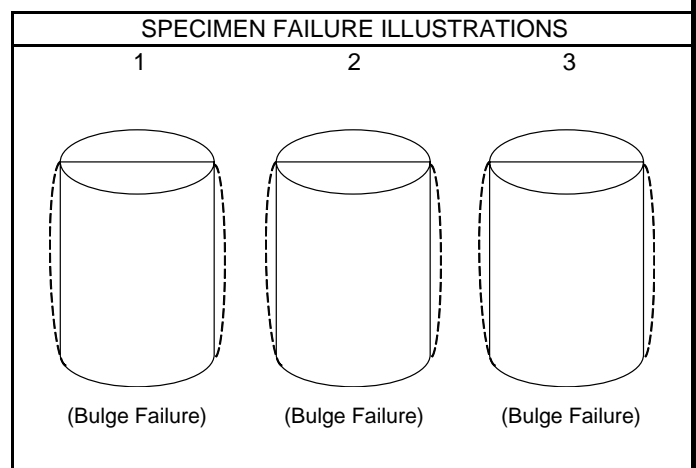
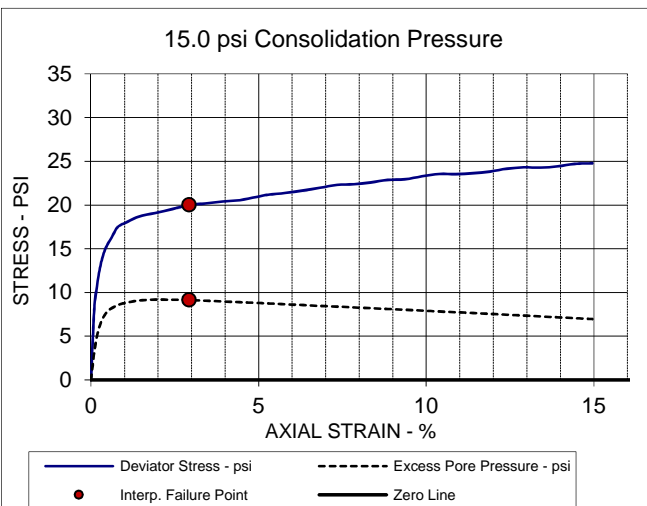
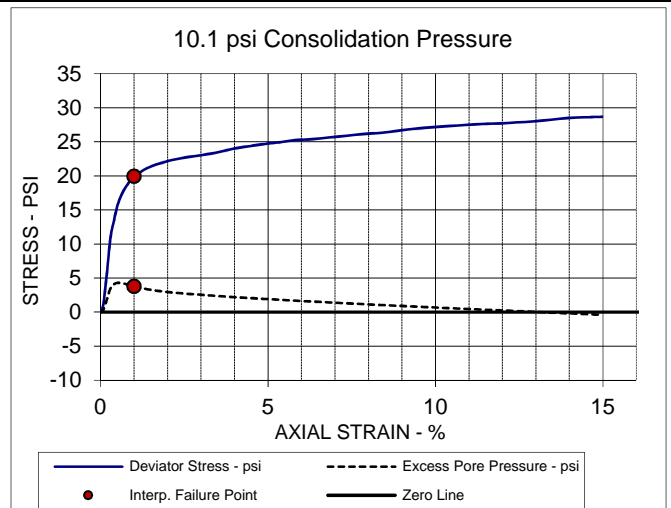
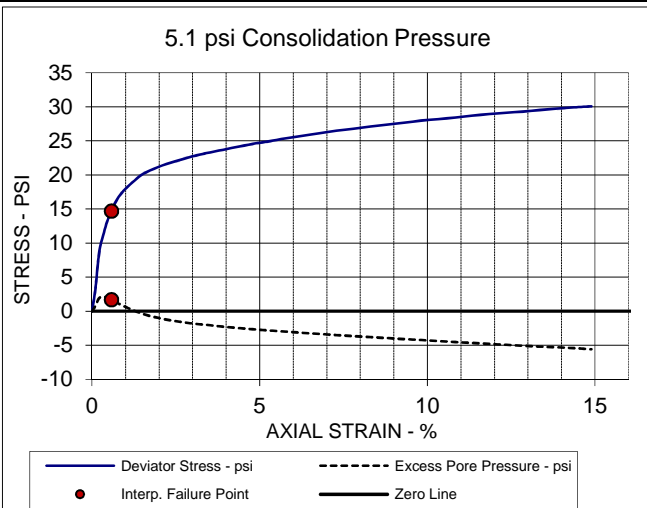
PROJECT #: 73225031


CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/18/22

521 Clemson Road
Columbia, SC



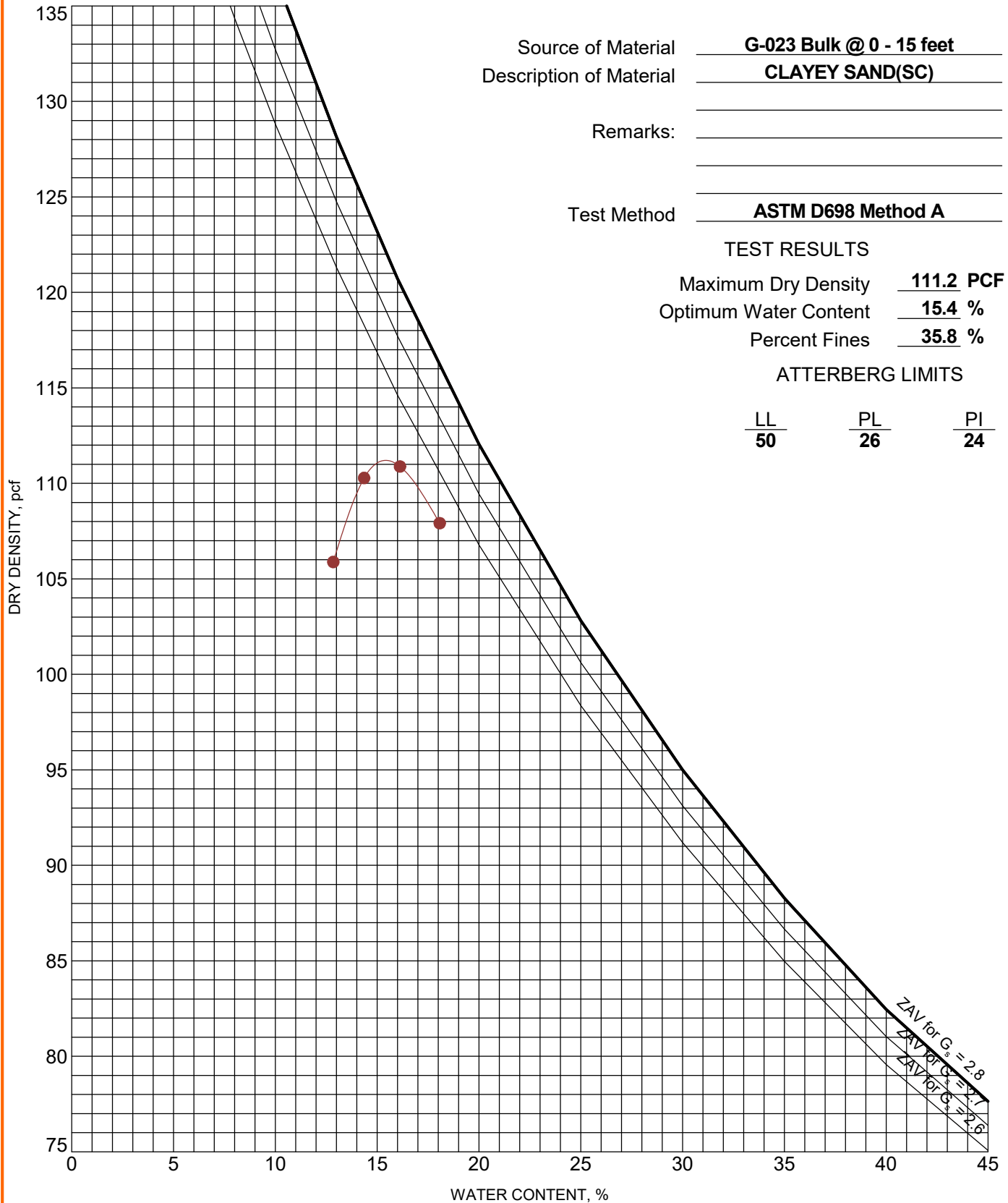


EFFECTIVE STRESS PARAMETERS		R ² = 1.00	α = 26.4 deg	a = 2.0 psi
PROJECT: Carolina Crossroads Phase 2			ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION TEST	
LOCATION: Richland and Lexington Counties, SC			CLIENT: Infrastructure Consulting & Engineering, PLLC	
SAMPLE ID: G-022 0-5'			<div>521 Clemson Road Columbia, SC</div> <div></div>	
DESCRIPTION: Clayey Sand (SC) / A-7-6 (7)				

MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. COMPACTION - V2 73225031 CAROLINA CROSSROADS.GPJ TERRACON_DATATEMPLATE.GDT 3/24/22



PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

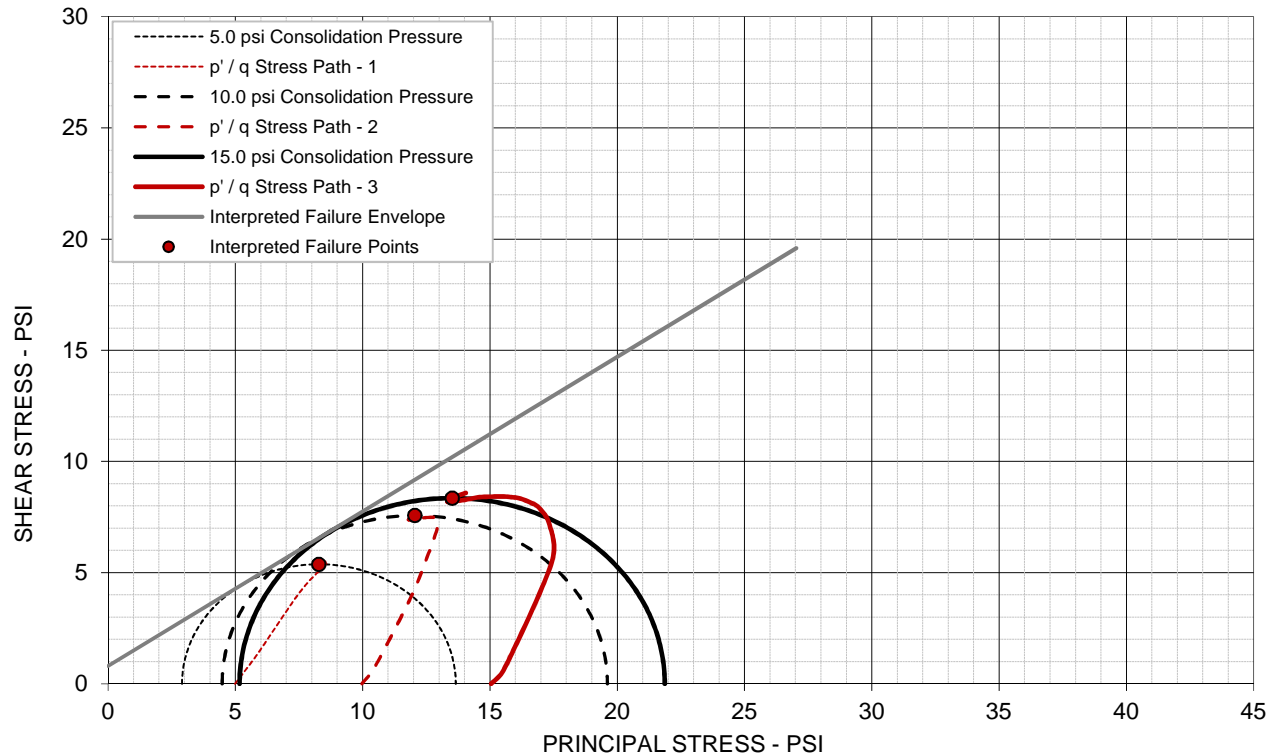
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting &
Engineering, PLLC
Charleston, SC

ICU TRIAXIAL COMPRESSION TEST

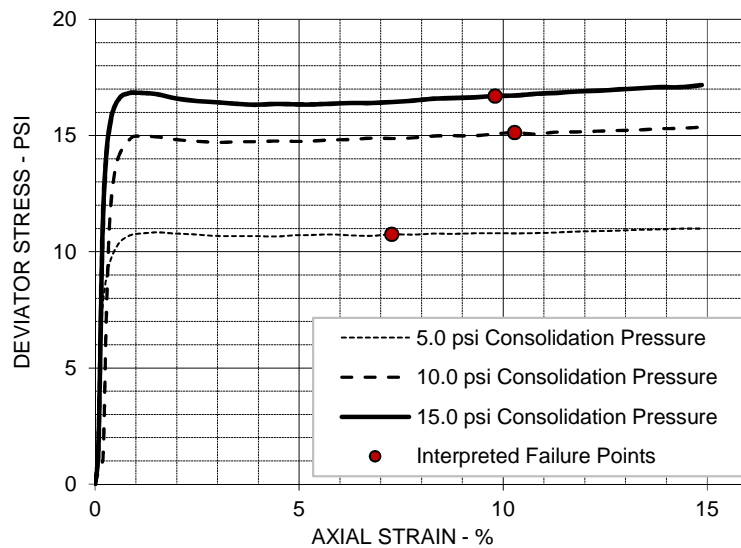
ASTM D4767 / AASHTO T297

Failure Criteria: Max Obliquity (s1': s3')



EFFECTIVE STRESS PARAMETERS

$\phi' = 34.8$ deg $c' = 0.8$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	16.8	16.8	16.8
Dry Density - pcf	105.2	105.2	105.9
Diameter - inches	2.86	2.86	2.86
Height - inches	5.97	6.00	5.98

AT TEST

Final Moisture - %	20.5	19.3	18.8
Dry Density - pcf	105.3	105.6	106.5
Calculated Diameter (in.)	2.84	2.84	2.83
Height - inches	5.94	5.95	5.92
Effect. Consol. Stress - psi	5.0	10.0	15.0
Failure Stress - psi	10.75	15.13	16.70
Total Pore Pressure - psi	92.1	95.5	99.9
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	7.3	10.3	9.8
σ_1' Failure - psi	13.66	19.61	21.87
σ_3' Failure - psi	2.91	4.48	5.17

TEST DESCRIPTION

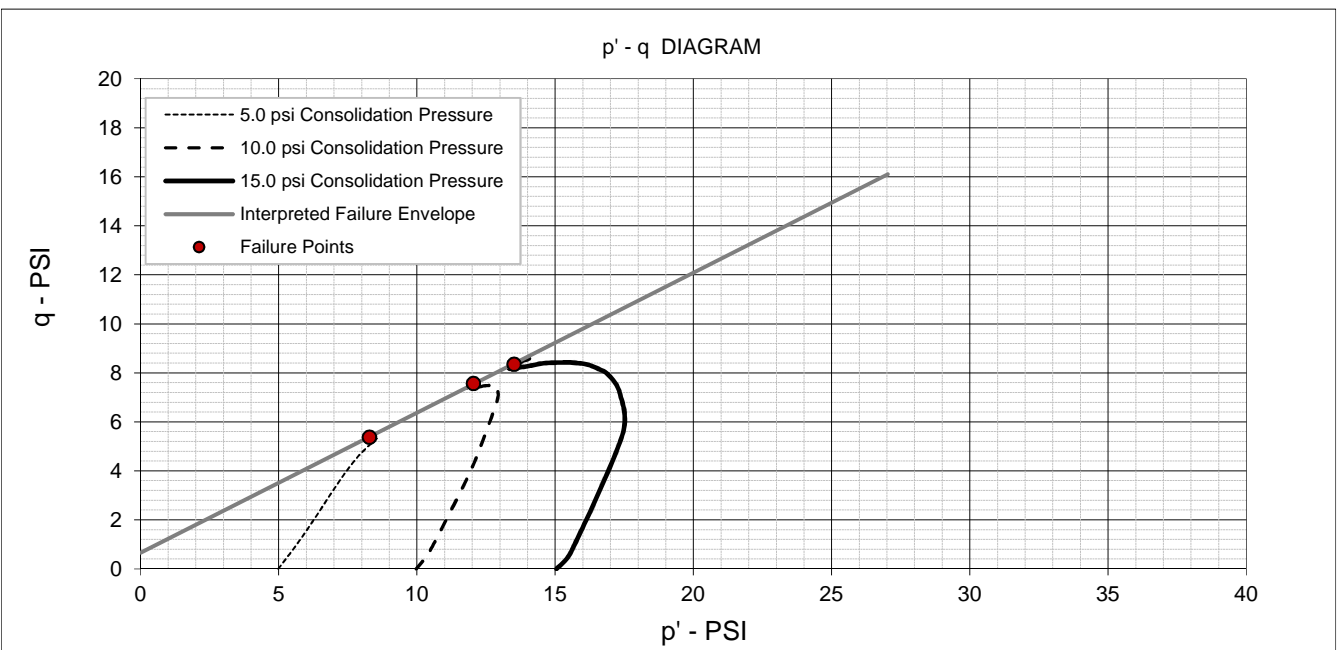
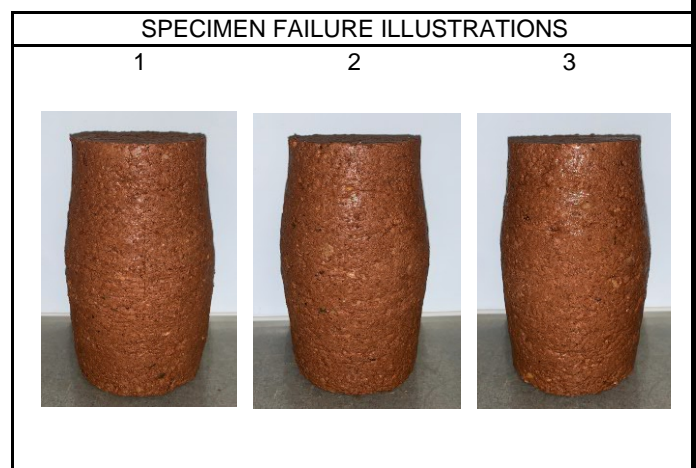
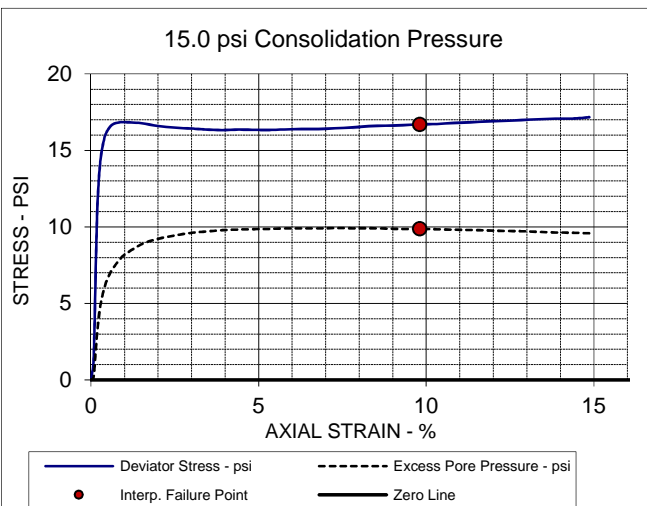
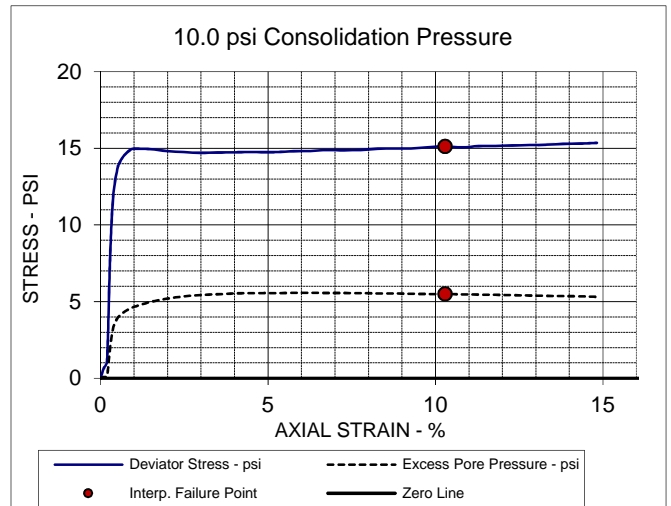
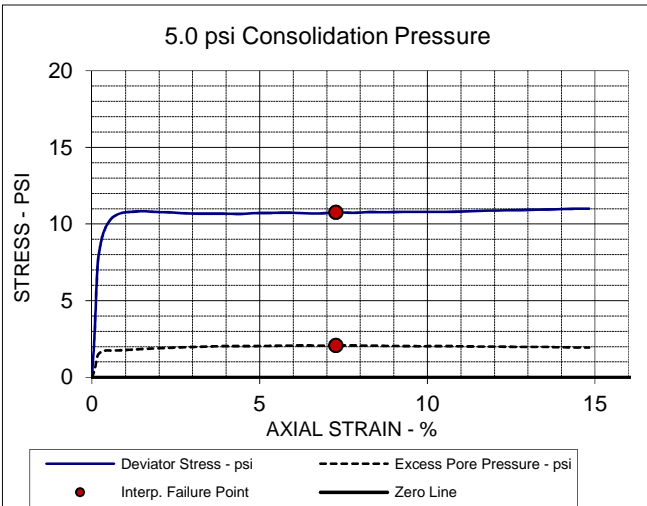
ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION
 SAMPLE TYPE: Remolded
 DESCRIPTION: Clayey Sand (SC) / A-7-6 (4)
 SAMPLE ID: G-023 0-15'
 SPECIFIC GRAVITY: 2.65
 LL: 46 PL: 18 PI: 28 Percent -200: 35.8%
 Remarks: Remolded to 95% of the Standard Proctor


PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2
 LOCATION: Richland and Lexington Counties, SC
 PROJECT #: 73225031
 CLIENT: Infrastructure Consulting & Engineering, PLLC
 DATE: 03/25/22

521 Clemson Road
 Columbia, SC



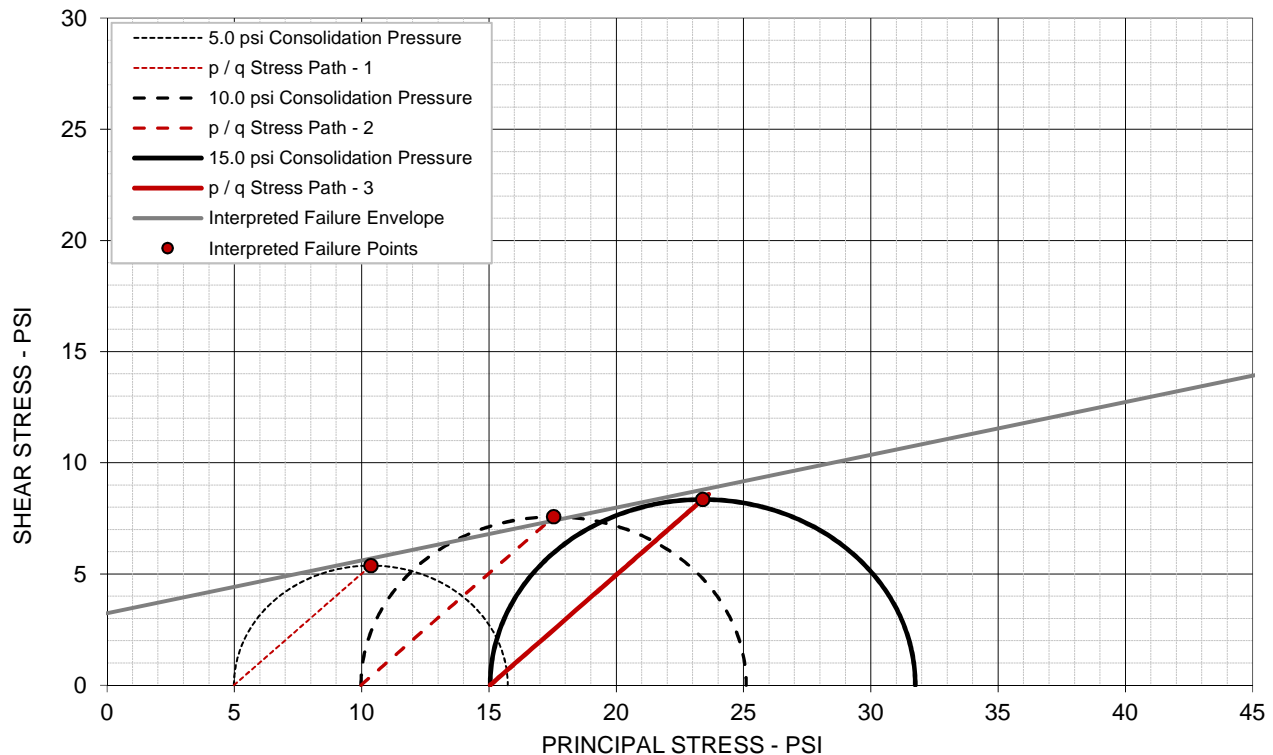


EFFECTIVE STRESS PARAMETERS	R ² = 1.00	α = 29.8 deg	a = 0.7 psi
PROJECT: Carolina Crossroads Phase 2		ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION TEST	
LOCATION: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC	
SAMPLE ID: G-023 0-15'		<div>521 Clemson Road Columbia, SC</div> <div></div>	
DESCRIPTION: Clayey Sand (SC) / A-7-6 (4)			

ICU TRIAXIAL COMPRESSION TEST

ASTM D4767 / AASHTO T297

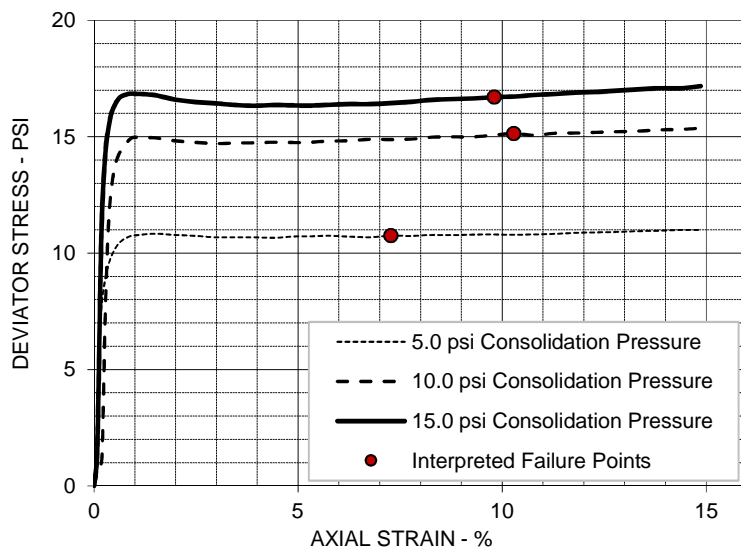
Failure Criteria: Max Obliquity (s1': s3')



TOTAL STRESS PARAMETERS

$\phi = 13.4$ deg

c = 3.2 psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	16.8	16.8	16.8
Dry Density - pcf	105.2	105.2	105.9
Diameter - inches	2.86	2.86	2.86
Height - inches	5.97	6.00	5.98

AT TEST

Final Moisture - %	20.5	19.3	18.8
Dry Density - pcf	105.3	105.6	106.5
Calculated Diameter (in.)	2.84	2.84	2.83
Height - inches	5.94	5.95	5.92
Effect. Consol. Stress - psi	5.0	10.0	15.0
Failure Stress - psi	10.75	15.13	16.70
Total Pore Pressure - psi	92.1	95.5	99.9
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	7.3	10.3	9.8
σ_1 Failure - psi	15.74	25.11	31.75
σ_3 Failure - psi	4.99	9.97	15.05

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Remolded

DESCRIPTION: Clayey Sand (SC) / A-7-6 (4)

SAMPLE ID: G-023 0-15'

SPECIFIC GRAVITY: 2.65

LL: 46 PL: 18 PI: 28 Percent -200: 35.8%

Remarks: Remolded to 95% of the Standard Proctor

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

PROJECT #: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/25/22

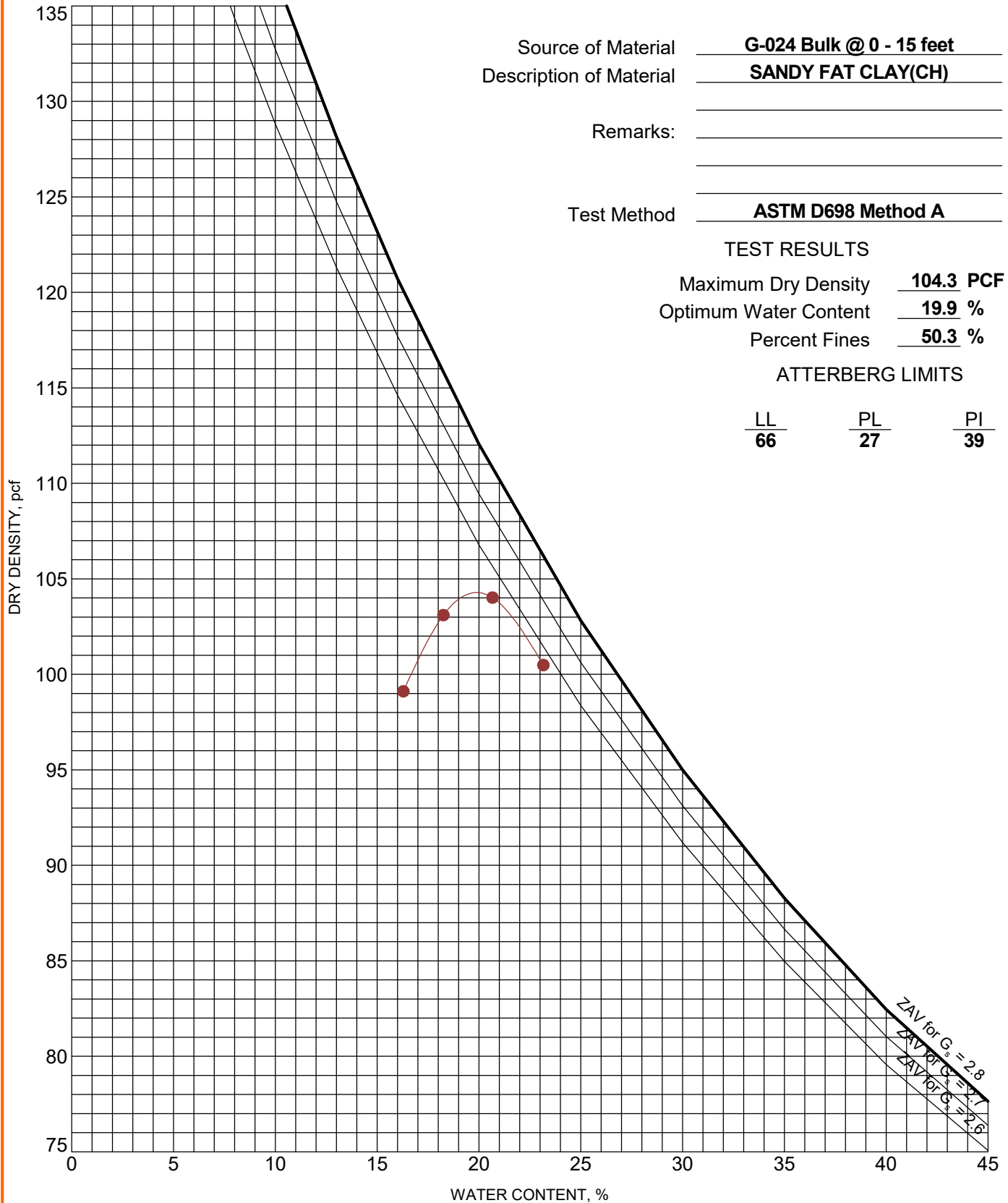
521 Clemson Road
Columbia, SC



MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. COMPACTION - V2 73225031 CAROLINA CROSSROADS GPJ TERRACON_DATATEMPLATE.GDT 3/31/22



PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

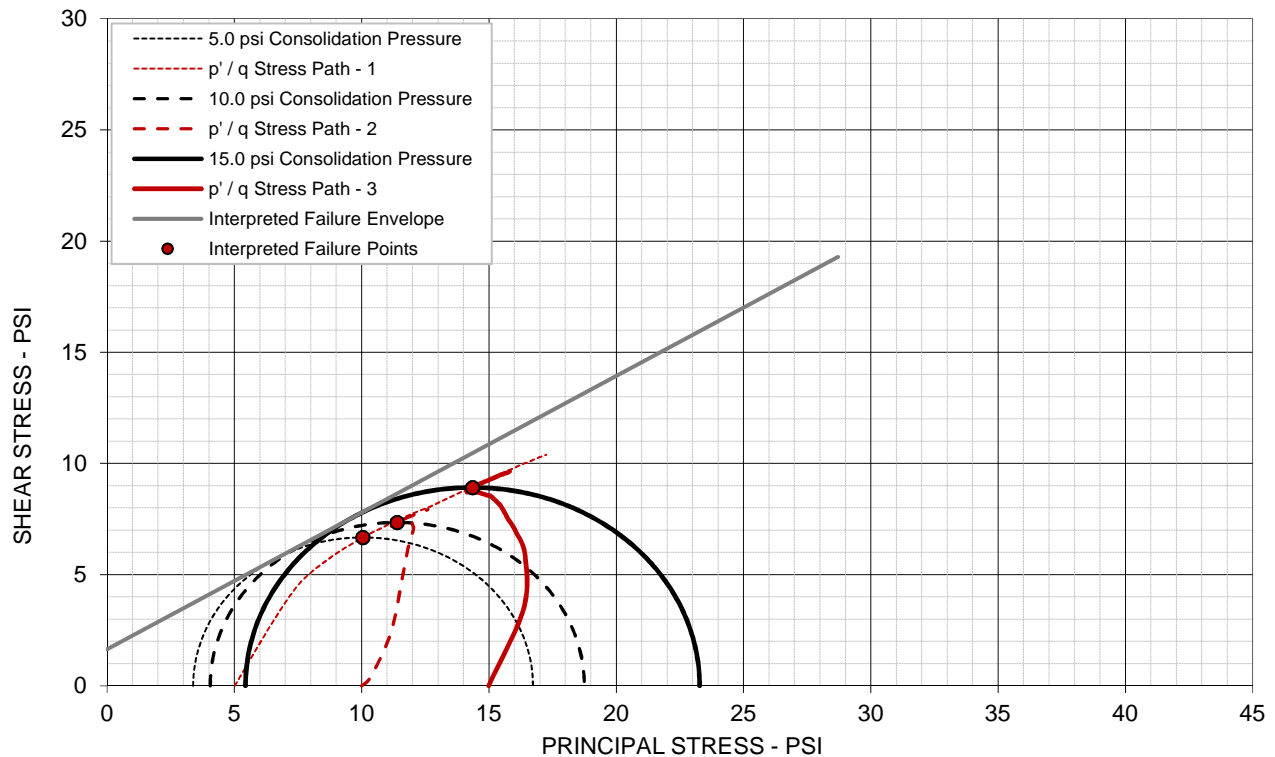
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting &
Engineering, PLLC
Charleston, SC

ICU TRIAXIAL COMPRESSION TEST

ASTM D4767 / AASHTO T297

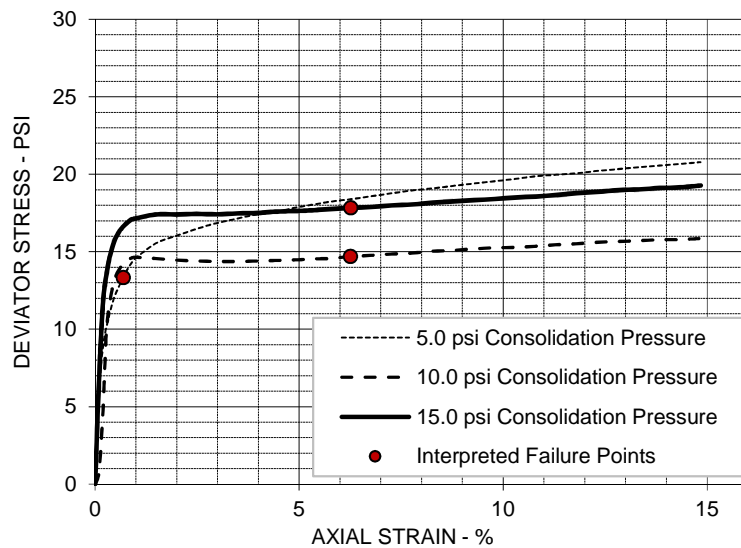
Failure Criteria: Max Obliquity (s1': s3')



EFFECTIVE STRESS PARAMETERS

$\phi' = 31.6$ deg

$c' = 1.6$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	21.0	21.0	21.0
Dry Density - pcf	99.3	99.2	99.5
Diameter - inches	2.85	2.86	2.86
Height - inches	6.01	6.00	5.98

AT TEST

Final Moisture - %	23.7	24.9	24.0
Dry Density - pcf	99.4	99.6	100.4
Calculated Diameter (in.)	2.83	2.84	2.83
Height - inches	5.96	5.96	5.92
Effect. Consol. Stress - psi	5.0	10.0	15.0
Failure Stress - psi	13.35	14.69	17.84
Total Pore Pressure - psi	91.6	96.0	99.6
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	0.7	6.3	6.3
σ_1' Failure - psi	16.73	18.75	23.28
σ_3' Failure - psi	3.38	4.05	5.44

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Remolded

DESCRIPTION: Sandy Fat Clay (CH) / A-7-6 (15)

SAMPLE ID: G-024 0-15'

SPECIFIC GRAVITY: 2.65

LL: 66 PL: 27 PI: 39 Percent -200: 50.3%

Remarks: Remolded to 95% of the Standard Proctor

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

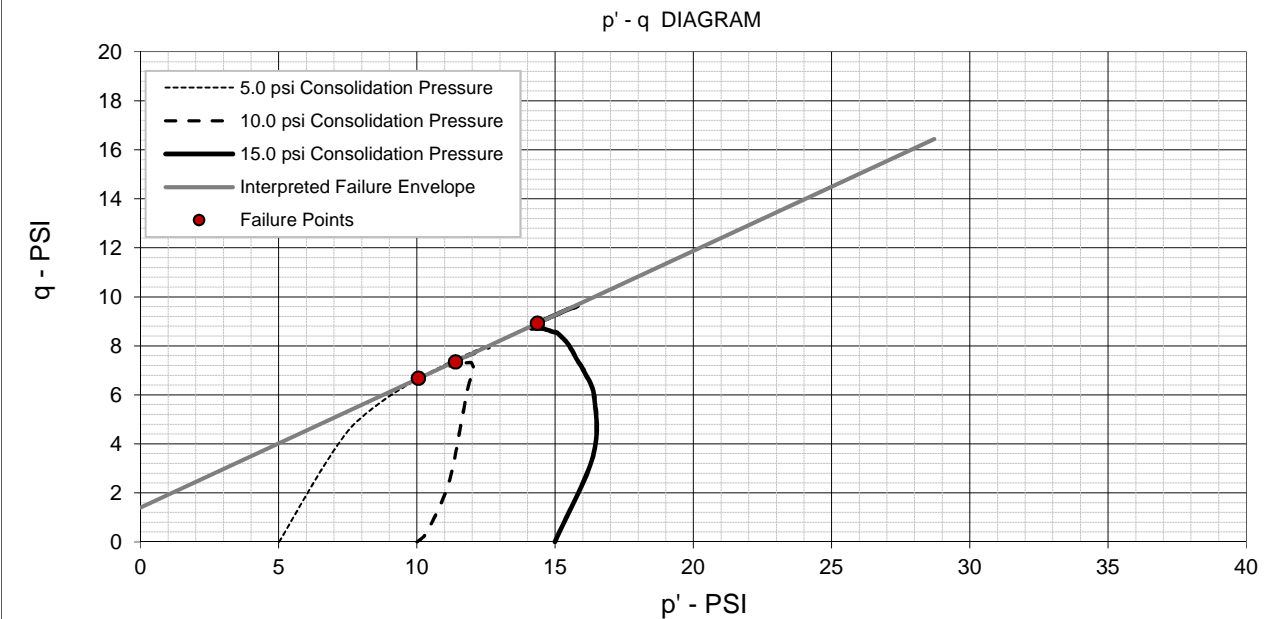
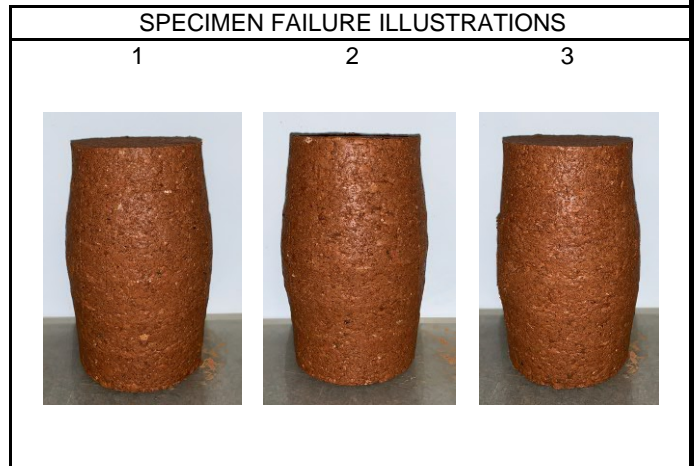
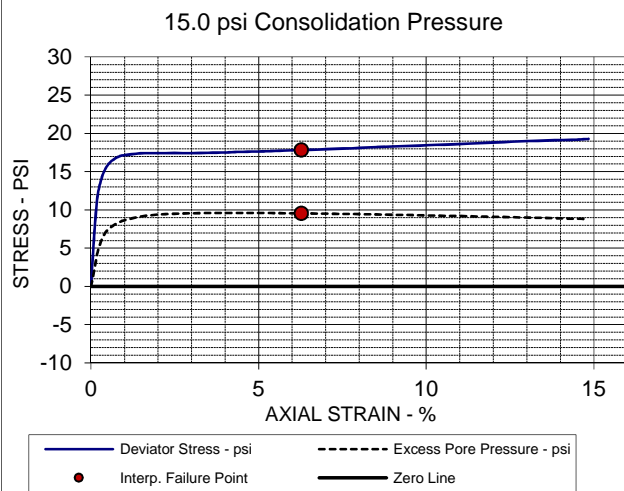
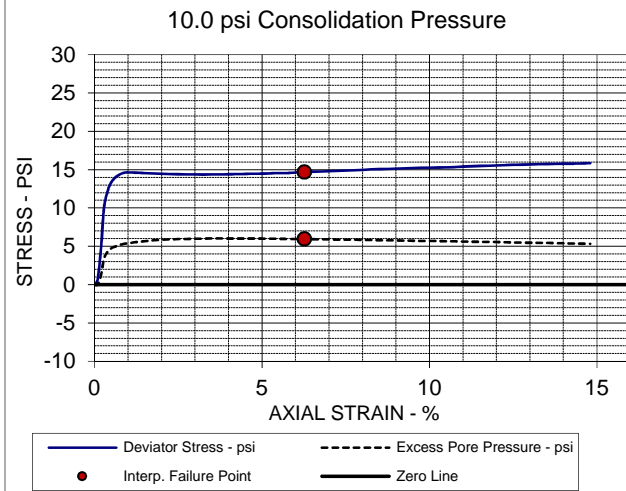
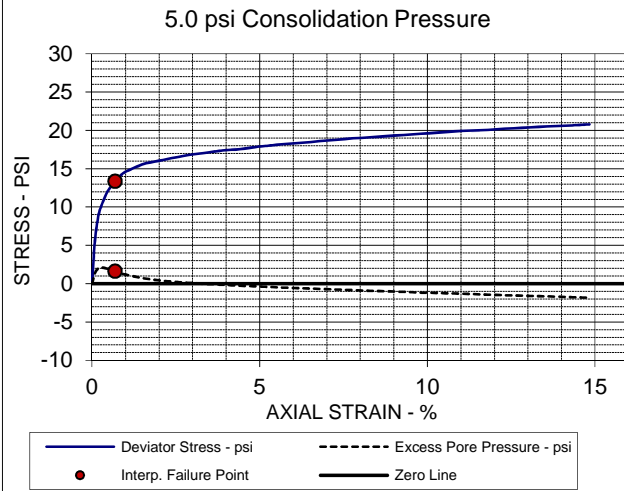
PROJECT #: 73225031


CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 04/01/22

521 Clemson Road
Columbia, SC



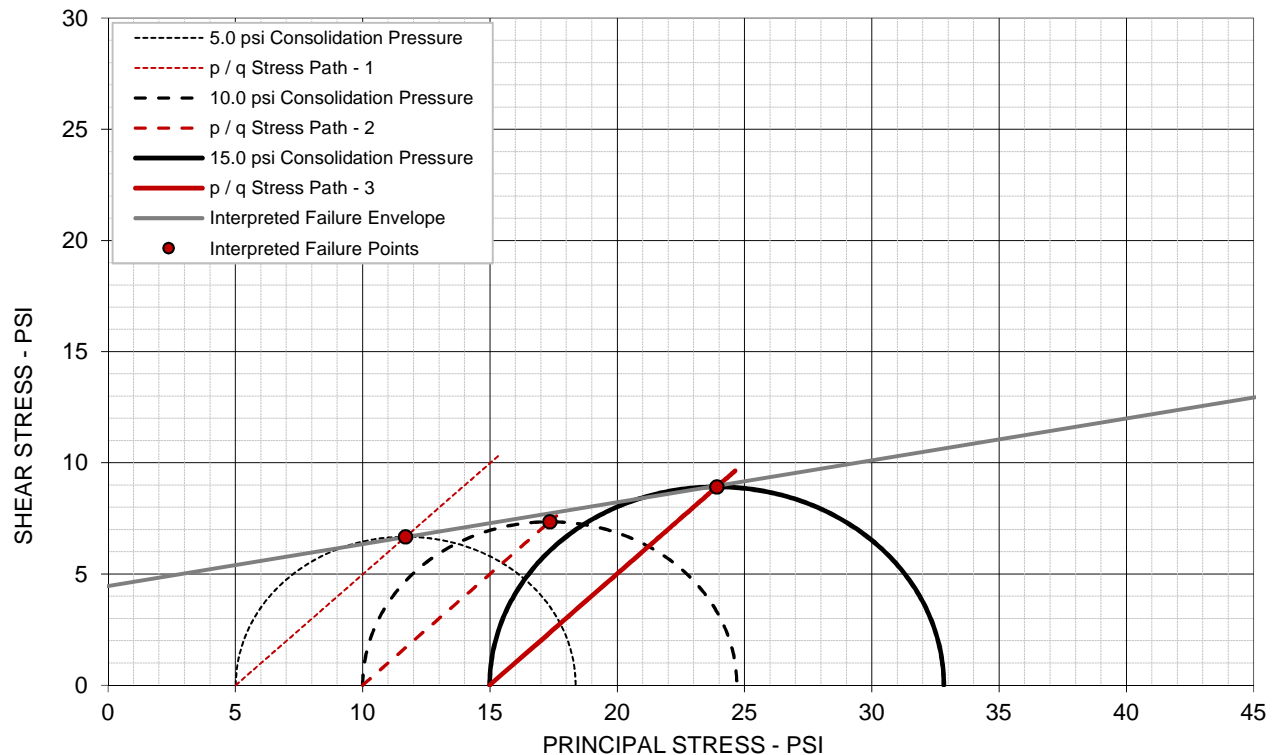


EFFECTIVE STRESS PARAMETERS	R ² = 1.00	α = 27.7 deg	a = 1.4 psi
PROJECT: Carolina Crossroads Phase 2		ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION TEST	
LOCATION: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC	
SAMPLE ID: G-024 0-15'		<div>521 Clemson Road Columbia, SC</div> <div></div>	
DESCRIPTION: Sandy Fat Clay (CH) / A-7-6 (15)			

ICU TRIAXIAL COMPRESSION TEST

ASTM D4767 / AASHTO T297

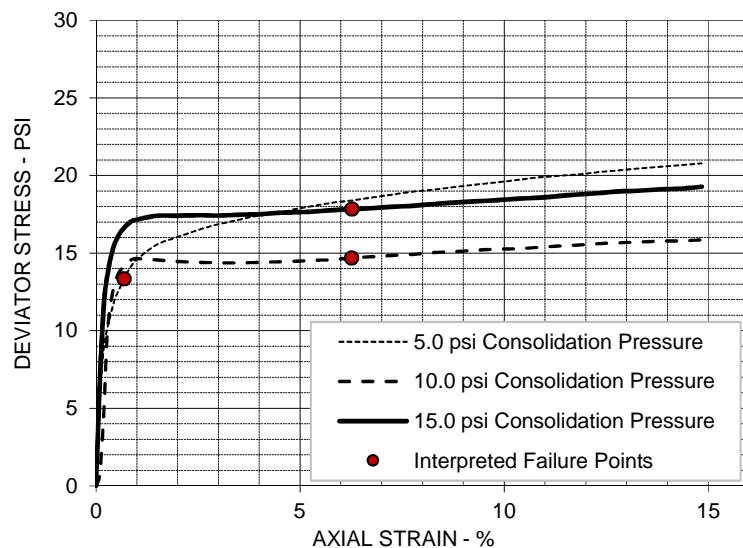
Failure Criteria: Max Obliquity (s1': s3')



TOTAL STRESS PARAMETERS

$\phi = 10.7 \text{ deg}$

$c = 4.5 \text{ psi}$



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	21.0	21.0	21.0
Dry Density - pcf	99.3	99.2	99.5
Diameter - inches	2.85	2.86	2.86
Height - inches	6.01	6.00	5.98

AT TEST

Final Moisture - %	23.7	24.9	24.0
Dry Density - pcf	99.4	99.6	100.4
Calculated Diameter (in.)	2.83	2.84	2.83
Height - inches	5.96	5.96	5.92
Effect. Consol. Stress - psi	5.0	10.0	15.0
Failure Stress - psi	13.35	14.69	17.84
Total Pore Pressure - psi	91.6	96.0	99.6
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	0.7	6.3	6.3
σ_1 Failure - psi	18.36	24.69	32.83
σ_3 Failure - psi	5.02	10.00	14.99

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Remolded

DESCRIPTION: Sandy Fat Clay (CH) / A-7-6 (15)

SAMPLE ID: G-024 0-15'

SPECIFIC GRAVITY: 2.65

LL: 66 PL: 27 PI: 39 Percent -200: 50.3%

Remarks: Remolded to 95% of the Standard Proctor

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

PROJECT #: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 04/01/22

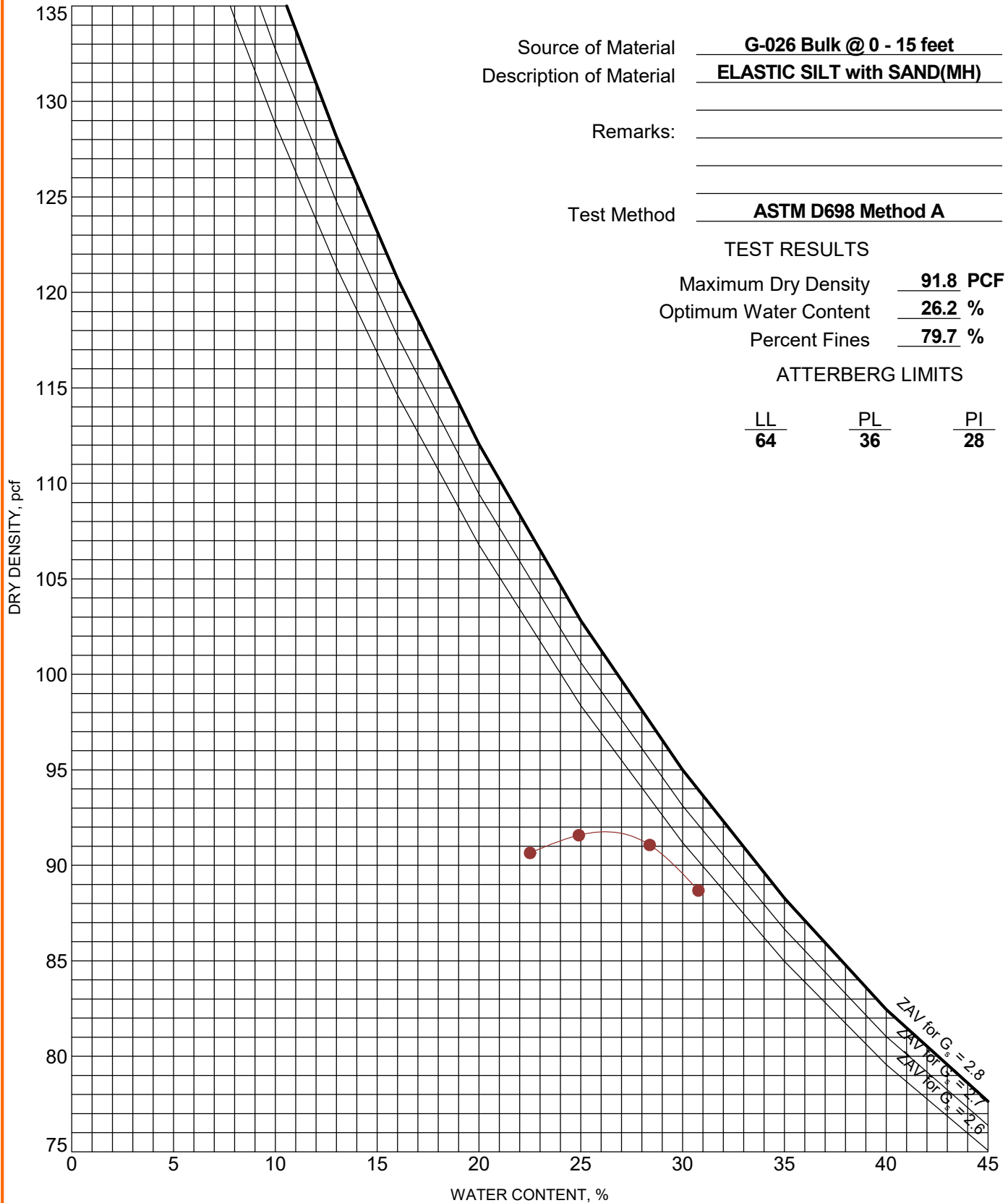
521 Clemson Road
Columbia, SC



MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. COMPACTION - V2 73225031 CAROLINA CROSSROADS GPJ TERRACON_DATATEMPLATE.GDT 3/31/22



PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

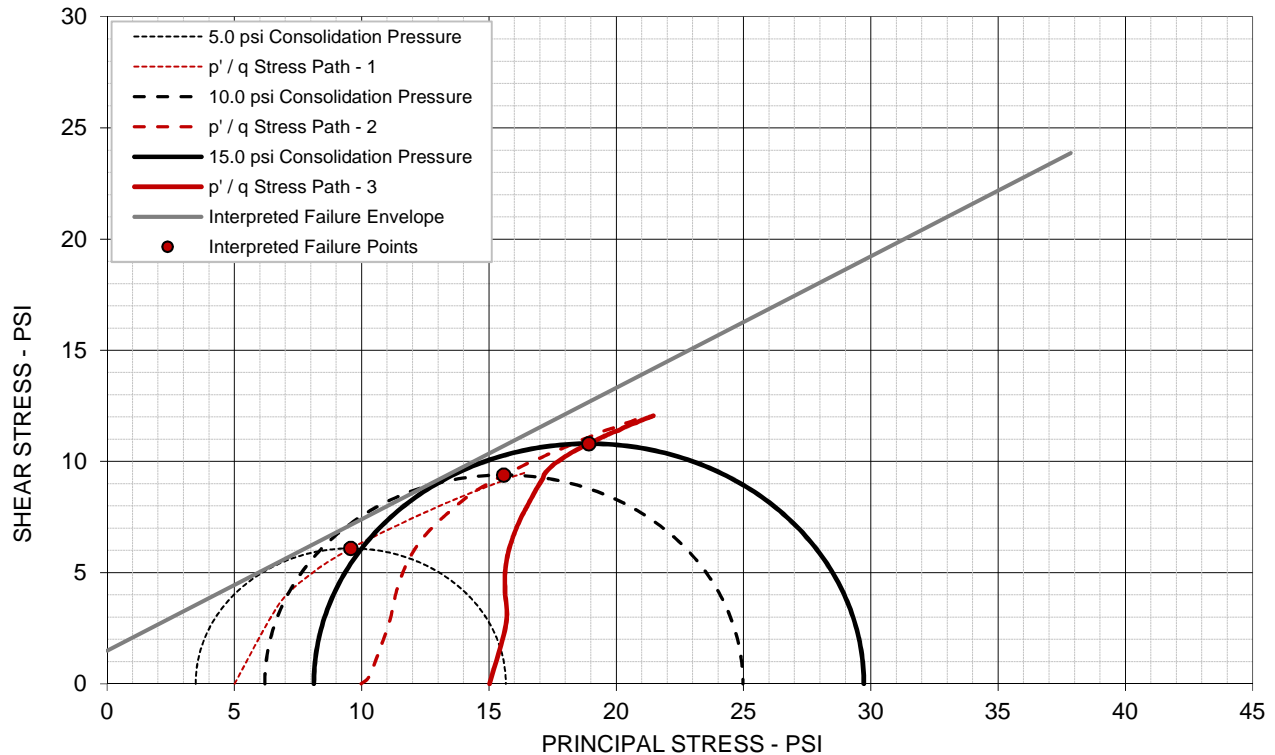
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting &
Engineering, PLLC
Charleston, SC

ICU TRIAXIAL COMPRESSION TEST

ASTM D4767 / AASHTO T297

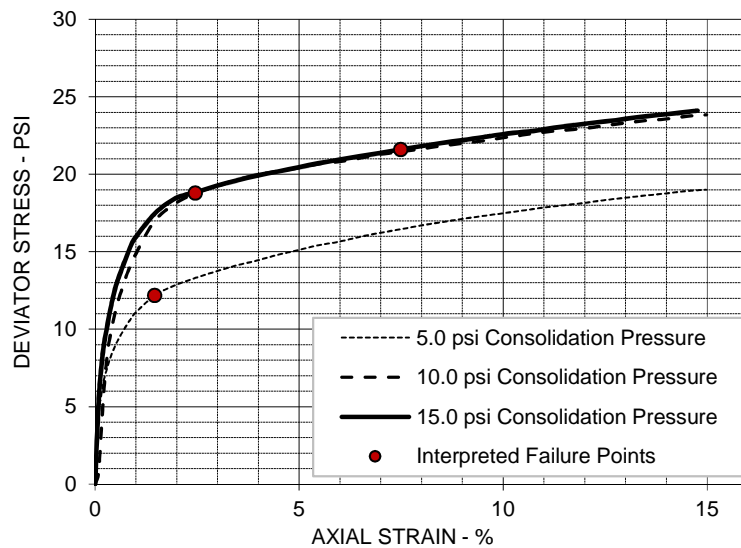
Failure Criteria: Max Obliquity ($s_1': s_3'$)



EFFECTIVE STRESS PARAMETERS

$\phi' = 30.6$ deg

$c' = 1.5$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	26.9	26.9	26.9
Dry Density - pcf	87.3	87.3	87.5
Diameter - inches	2.86	2.86	2.86
Height - inches	6.01	6.00	6.00

AT TEST

Final Moisture - %	37.5	36.7	35.9
Dry Density - pcf	87.5	88.1	89.1
Calculated Diameter (in.)	2.85	2.85	2.85
Height - inches	6.00	5.98	5.98
Effect. Consol. Stress - psi	5.0	10.0	15.0
Failure Stress - psi	12.18	18.78	21.60
Total Pore Pressure - psi	91.5	93.8	96.9
Strain Rate - inches/min.	0.0010	0.0010	0.0010
Failure Strain - %	1.5	2.5	7.5
σ_1' Failure - psi	15.66	24.98	29.73
σ_3' Failure - psi	3.48	6.20	8.12

TEST DESCRIPTION

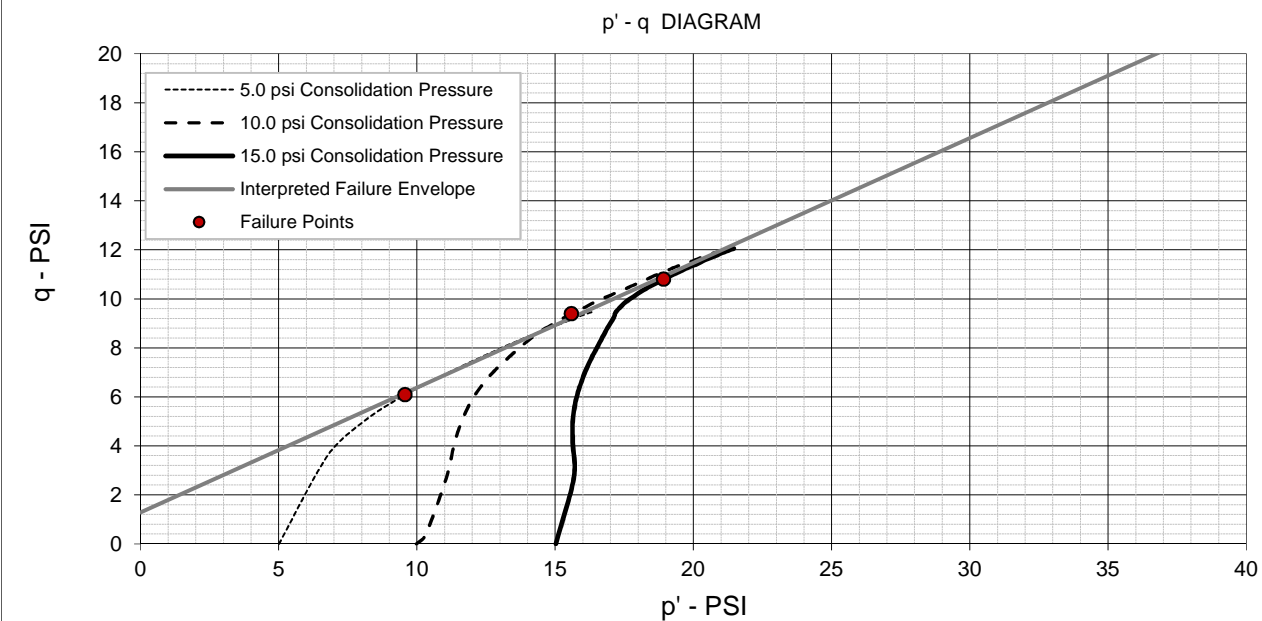
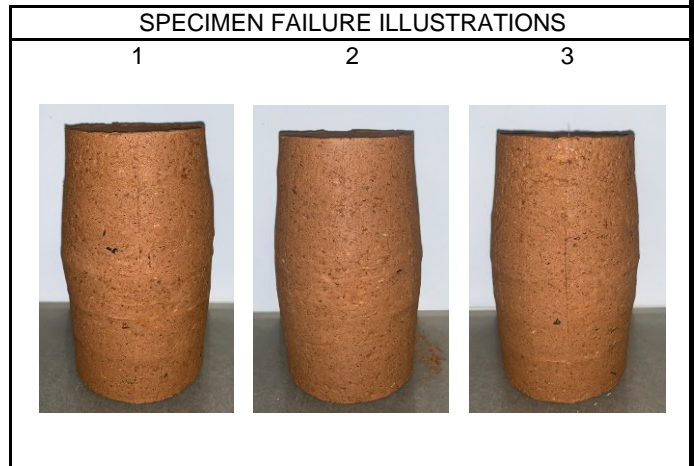
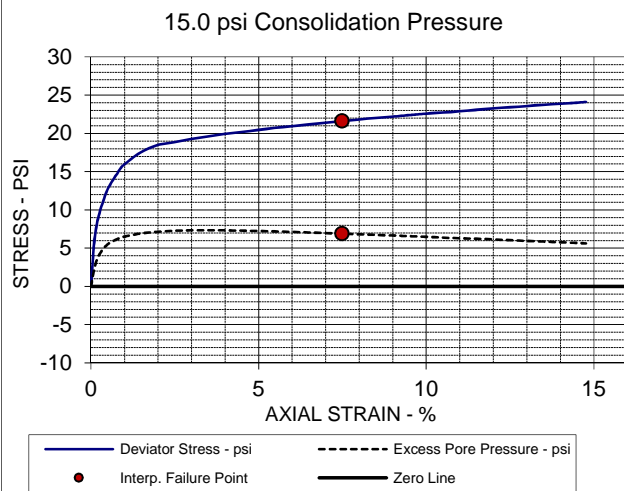
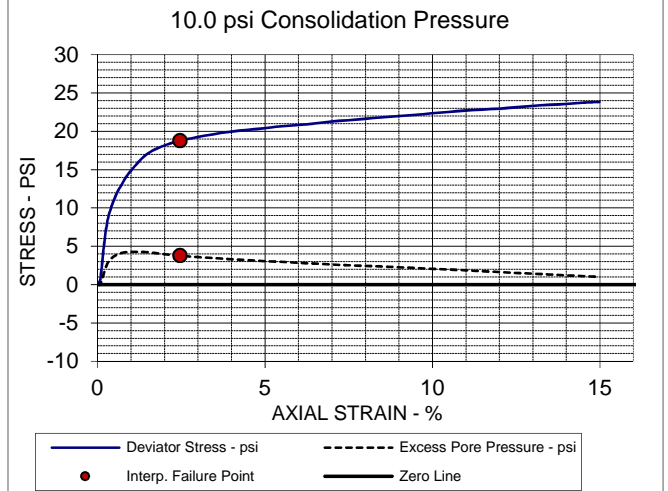
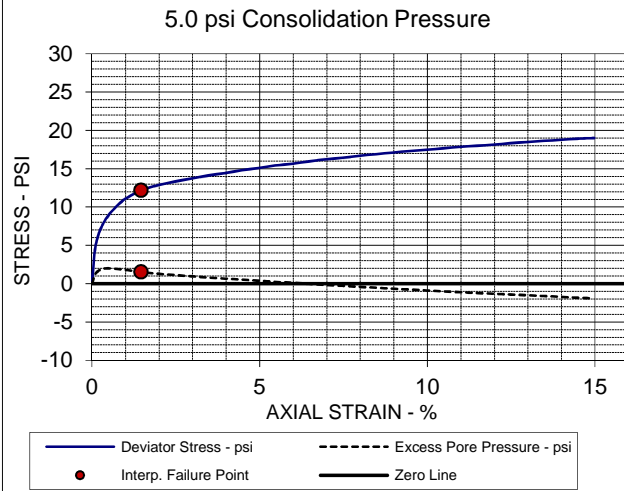
ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION
 SAMPLE TYPE: Remolded
 DESCRIPTION: Elastic Silt with Sand (MH) / A-7-5 (26)
 SAMPLE ID: G-026 0-15'
 SPECIFIC GRAVITY: 2.65
 LL: 64 PL: 36 PI: 28 Percent -200: 79.7%
 Remarks: Remolded to 95% of the Standard Proctor


PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2
 LOCATION: Richland and Lexington Counties, SC
 PROJECT #: 73225031
 CLIENT: Infrastructure Consulting & Engineering, PLLC
 DATE: 04/01/22

521 Clemson Road
 Columbia, SC



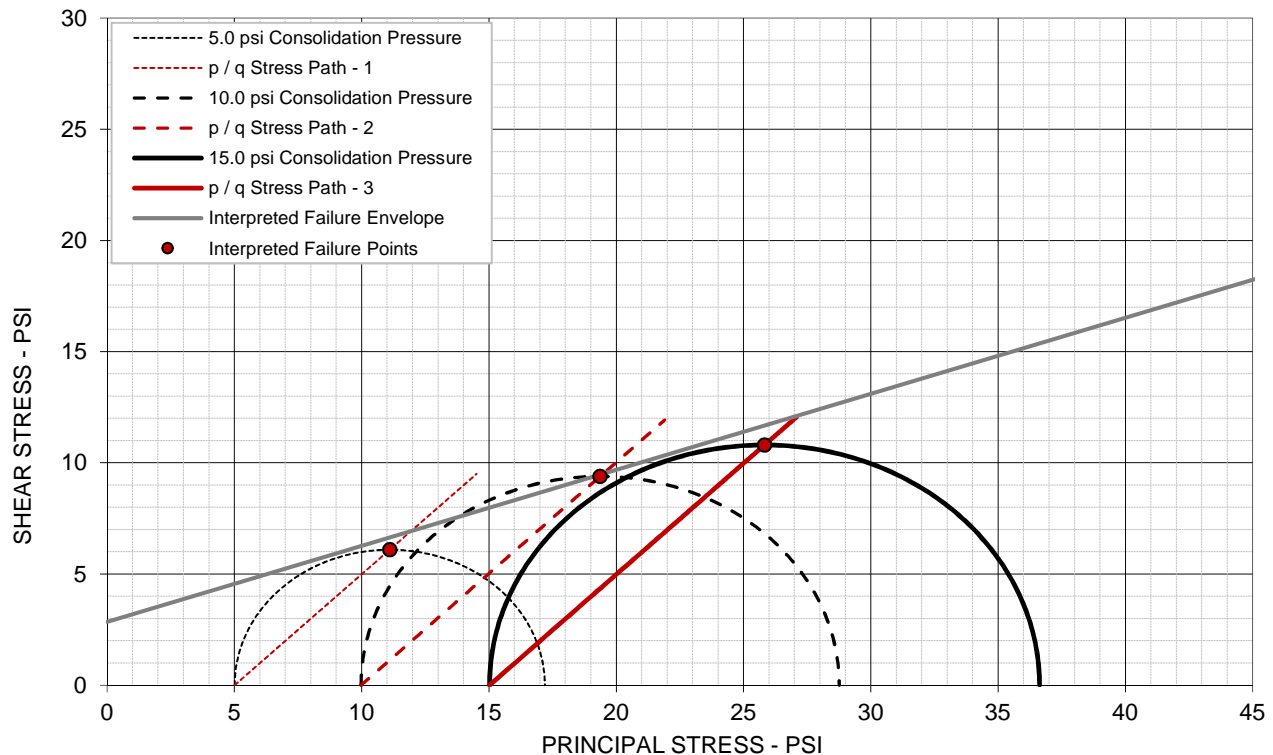


EFFECTIVE STRESS PARAMETERS	R ² = 1.00	α = 27.0 deg	a = 1.3 psi
PROJECT: Carolina Crossroads Phase 2		ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION TEST	
LOCATION: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC	
SAMPLE ID: G-026 0-15'		<div>521 Clemson Road Columbia, SC</div> <div></div>	
DESCRIPTION: Elastic Silt with Sand (MH) / A-7-5 (26)			

ICU TRIAXIAL COMPRESSION TEST

ASTM D4767 / AASHTO T297

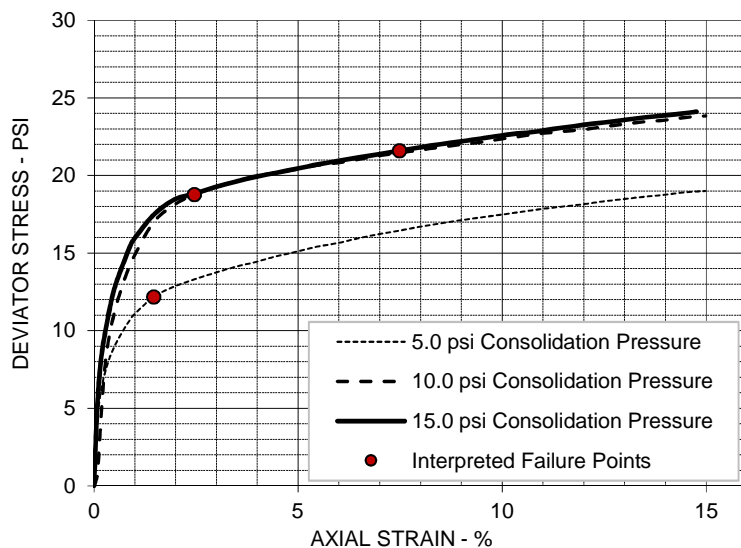
Failure Criteria: Max Obliquity (s1': s3')



TOTAL STRESS PARAMETERS

$\phi = 18.9 \text{ deg}$

$c = 2.8 \text{ psi}$



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	26.9	26.9	26.9
Dry Density - pcf	87.3	87.3	87.5
Diameter - inches	2.86	2.86	2.86
Height - inches	6.01	6.00	6.00

AT TEST

Final Moisture - %	37.5	36.7	35.9
Dry Density - pcf	87.5	88.1	89.1
Calculated Diameter (in.)	2.85	2.85	2.85
Height - inches	6.00	5.98	5.98
Effect. Consol. Stress - psi	5.0	10.0	15.0
Failure Stress - psi	12.18	18.78	21.60
Total Pore Pressure - psi	91.5	93.8	96.9
Strain Rate - inches/min.	0.0010	0.0010	0.0010
Failure Strain - %	1.5	2.5	7.5
σ_1 Failure - psi	17.19	28.76	36.63
σ_3 Failure - psi	5.01	9.98	15.02

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION
 SAMPLE TYPE: Remolded
 DESCRIPTION: Elastic Silt with Sand (MH) / A-7-5 (26)
 SAMPLE ID: G-026 0-15'
 SPECIFIC GRAVITY: 2.65
 LL: 64 PL: 36 PI: 28 Percent -200: 79.7%
 Remarks: Remolded to 95% of the Standard Proctor

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2
 LOCATION: Richland and Lexington Counties, SC
 PROJECT #: 73225031
 CLIENT: Infrastructure Consulting & Engineering, PLLC
 DATE: 04/01/22

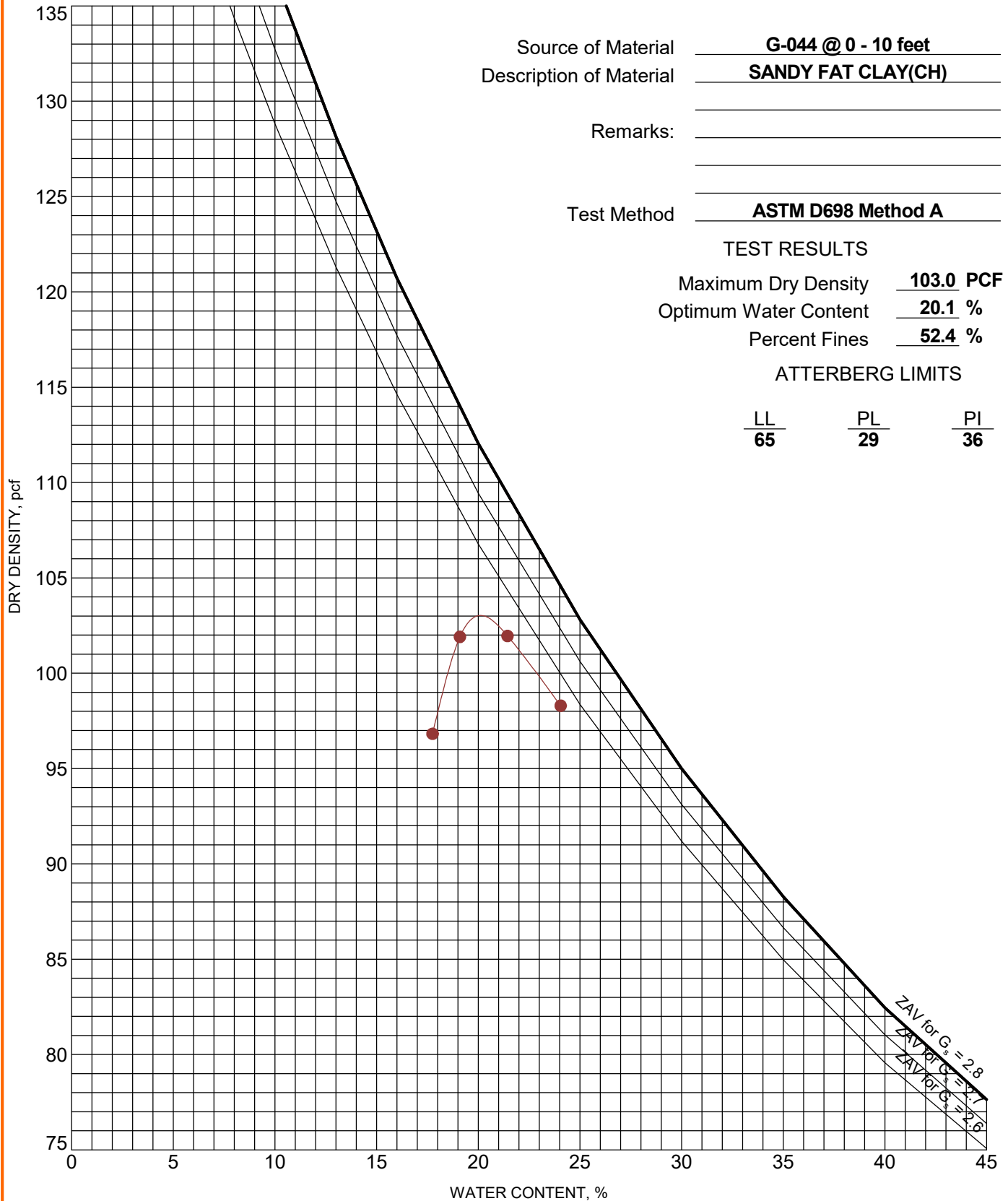
521 Clemson Road
 Columbia, SC



MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. COMPACTION - V2 73225031 CAROLINA CROSSROADS.GPJ TERRACON_DATATEMPLATE.GDT 3/16/22



PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

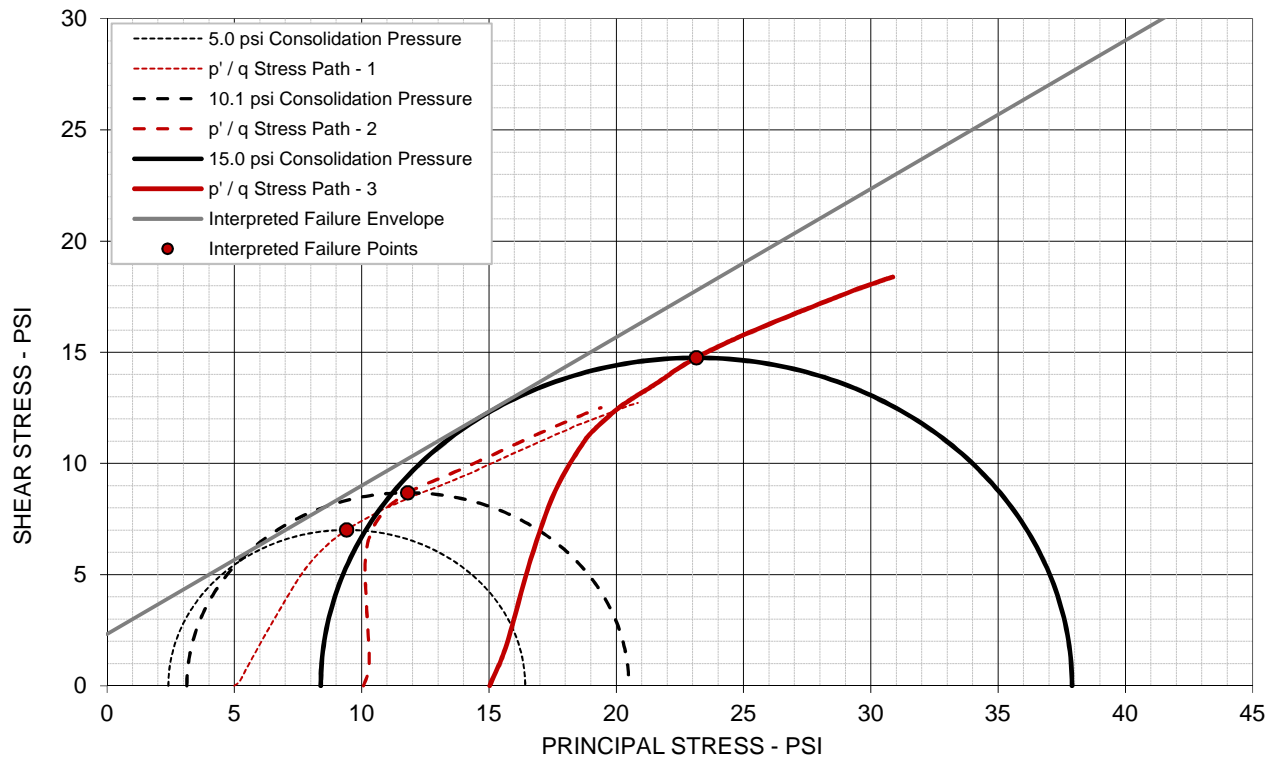
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting &
Engineering, PLLC
Charleston, SC

ICU TRIAXIAL COMPRESSION TEST

ASTM D4767 / AASHTO T297

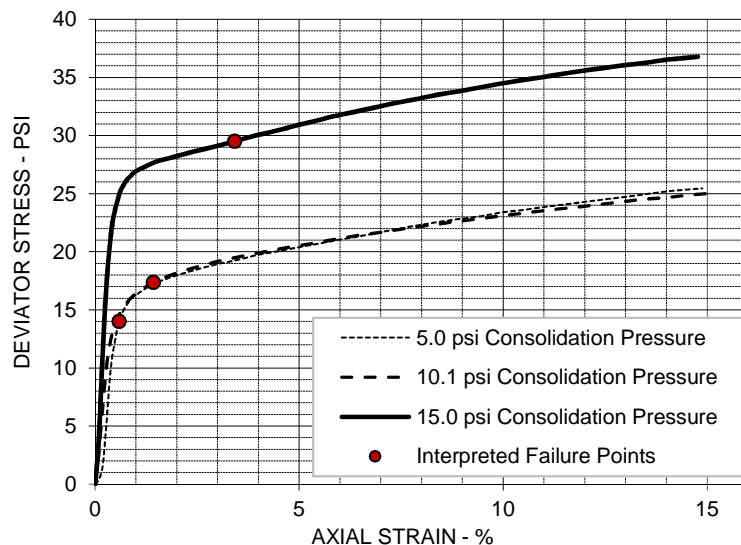
Failure Criteria: Max Obliquity ($s_1': s_3'$)



EFFECTIVE STRESS PARAMETERS

$\phi' = 33.7$ deg

$c' = 2.3$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	21.5	21.3	20.8
Dry Density - pcf	101.9	101.3	102.2
Diameter - inches	2.78	2.78	2.77
Height - inches	5.40	5.43	5.46

AT TEST

Final Moisture - %	24.1	24.0	22.1
Dry Density - pcf	101.9	101.5	102.4
Calculated Diameter (in.)	2.79	2.77	2.78
Height - inches	5.42	5.41	5.48
Effect. Consol. Stress - psi	5.0	10.1	15.0
Failure Stress - psi	14.01	17.36	29.51
Total Pore Pressure - psi	52.6	56.9	56.7
Strain Rate - inches/min.	0.0006	0.0006	0.0006
Failure Strain - %	0.6	1.4	3.4
σ_1' Failure - psi	16.42	20.50	37.90
σ_3' Failure - psi	2.41	3.13	8.39

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Remolded

DESCRIPTION: Sandy Fat Clay (CH) / A-7-6 (15)

SAMPLE ID: G-044 0-5'

SPECIFIC GRAVITY: 2.65

LL: 65 PL: 29 PI: 36 Percent -200: 52.4%

Remarks: Remolded to 95% of the Standard Proctor

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

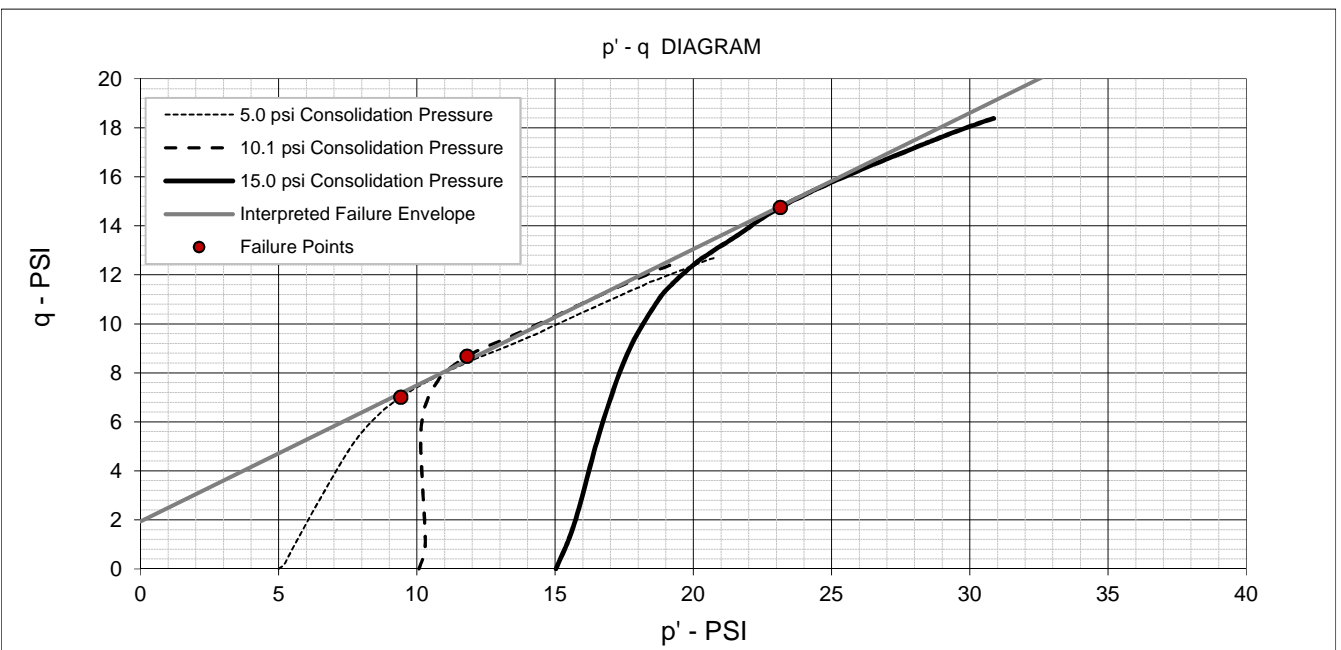
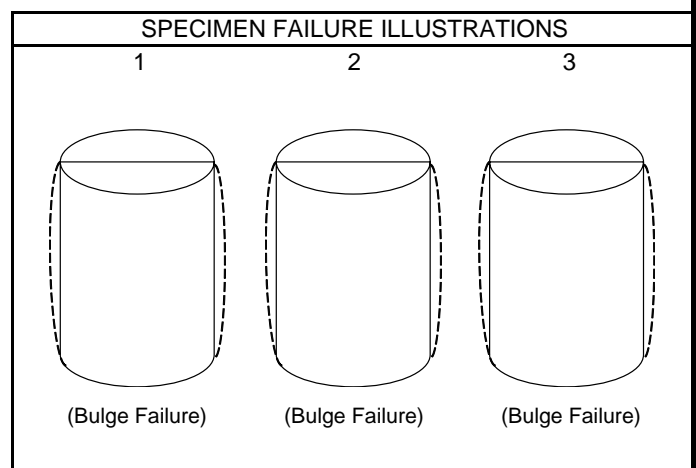
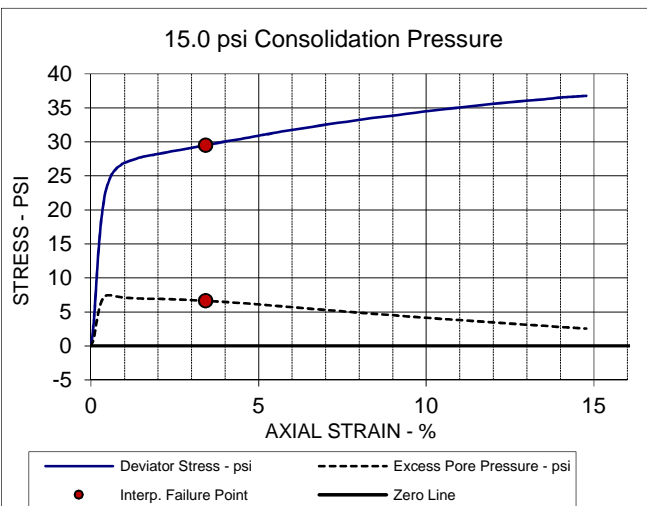
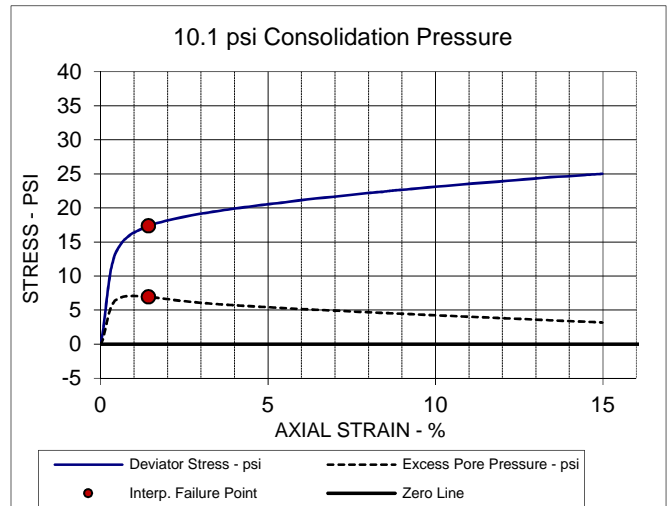
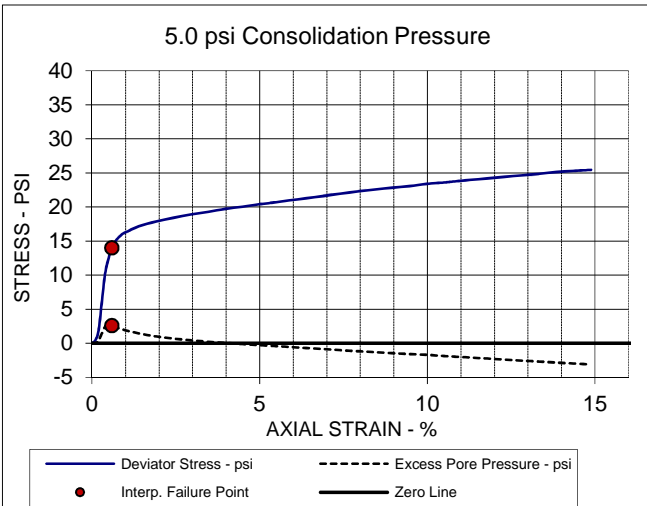
PROJECT #: 73225031


CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/18/22

521 Clemson Road
Columbia, SC

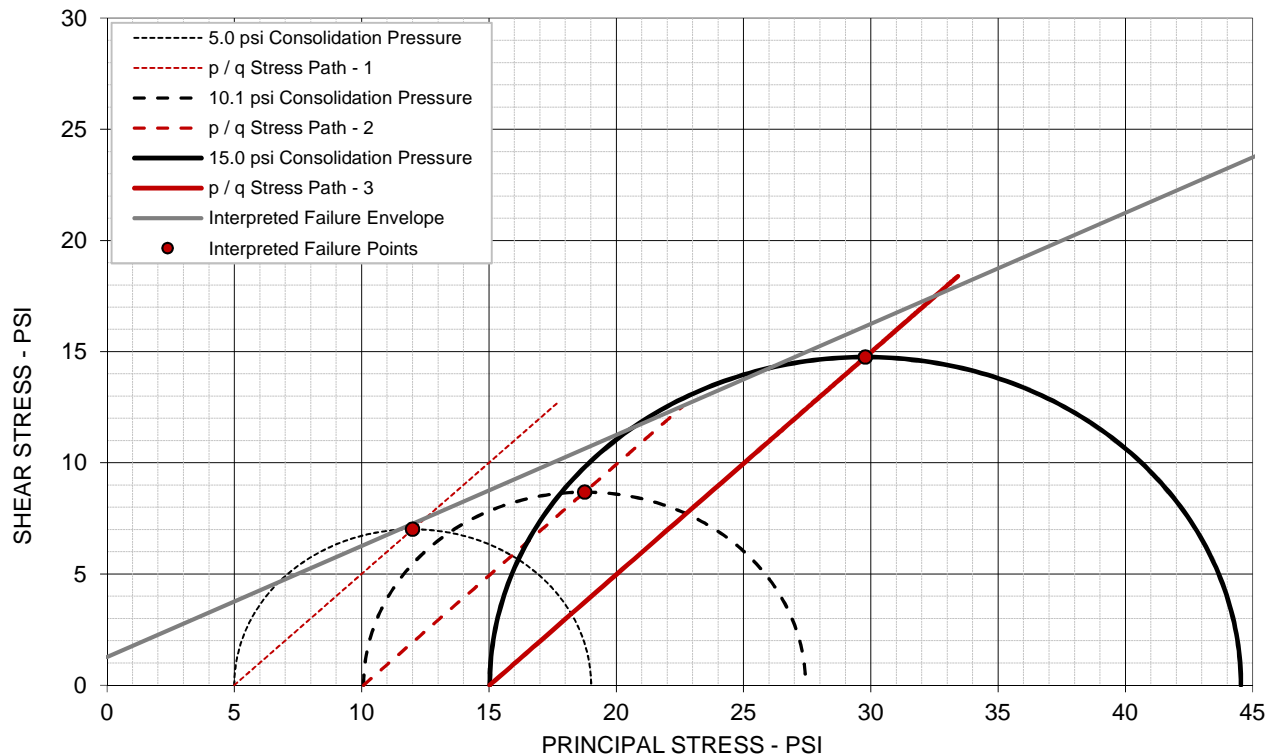




EFFECTIVE STRESS PARAMETERS		R ² = 1.00	α = 29.1 deg	a = 1.9 psi
PROJECT: Carolina Crossroads Phase 2			ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION TEST	
LOCATION: Richland and Lexington Counties, SC			CLIENT: Infrastructure Consulting & Engineering, PLLC	
SAMPLE ID: G-044 0-5'			<div>521 Clemson Road Columbia, SC</div> <div></div>	
DESCRIPTION: Sandy Fat Clay (CH) / A-7-6 (15)				

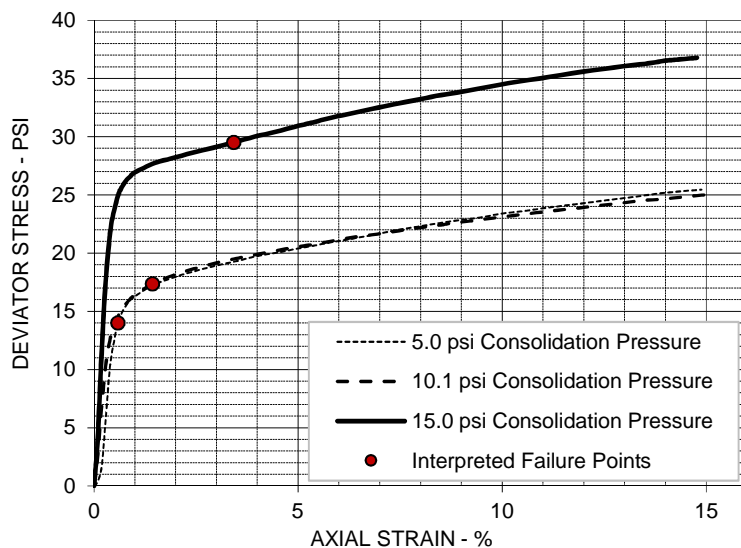
ICU TRIAXIAL COMPRESSION TEST ASTM D4767 / AASHTO T297

Failure Criteria: Max Obliquity (s1': s3')



TOTAL STRESS PARAMETERS

$\phi = 26.5$ deg $c = 1.3$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	21.5	21.3	20.8
Dry Density - pcf	101.9	101.3	102.2
Diameter - inches	2.78	2.78	2.77
Height - inches	5.40	5.43	5.46

AT TEST

Final Moisture - %	24.1	24.0	22.1
Dry Density - pcf	101.9	101.5	102.4
Calculated Diameter (in.)	2.79	2.77	2.78
Height - inches	5.42	5.41	5.48
Effect. Consol. Stress - psi	5.0	10.1	15.0
Failure Stress - psi	14.01	17.36	29.51
Total Pore Pressure - psi	52.6	56.9	56.7
Strain Rate - inches/min.	0.0006	0.0006	0.0006
Failure Strain - %	0.6	1.4	3.4
σ_1 Failure - psi	19.01	27.44	44.54
σ_3 Failure - psi	5.00	10.08	15.03

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION
 SAMPLE TYPE: Remolded
 DESCRIPTION: Sandy Fat Clay (CH) / A-7-6 (15)
 SAMPLE ID: G-044 0-5'
 SPECIFIC GRAVITY: 2.65
 LL: 65 PL: 29 PI: 36 Percent -200: 52.4%
 Remarks: Remolded to 95% of the Standard Proctor

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2
 LOCATION: Richland and Lexington Counties, SC
 PROJECT #: 73225031
 CLIENT: Infrastructure Consulting & Engineering, PLLC
 DATE: 03/18/22

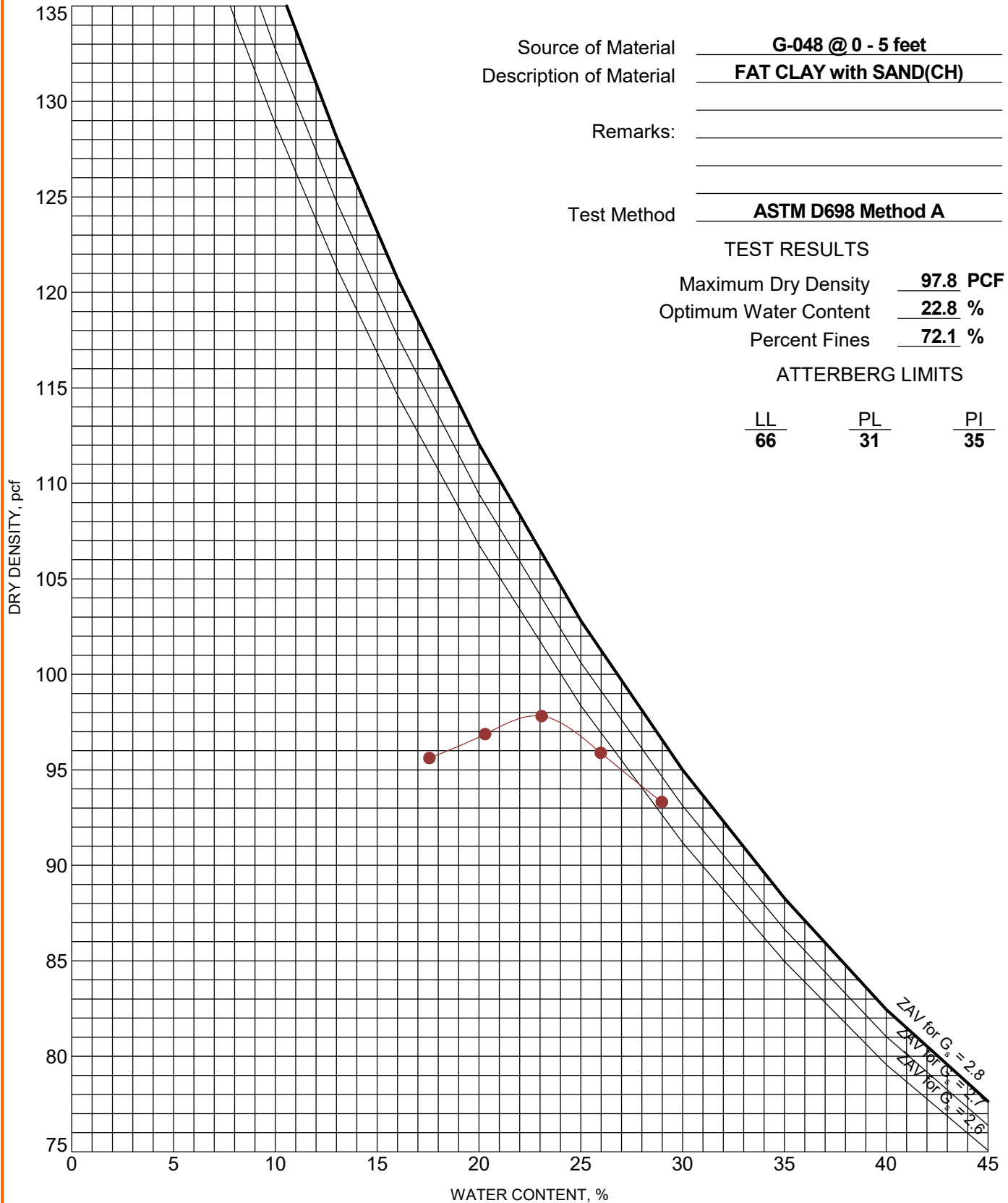
521 Clemson Road
 Columbia, SC



MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. COMPACTION - V2 73225031 CAROLINA CROSSROADS GPJ TERRACON_DATATEMPLATE.GDT 3/16/22



PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

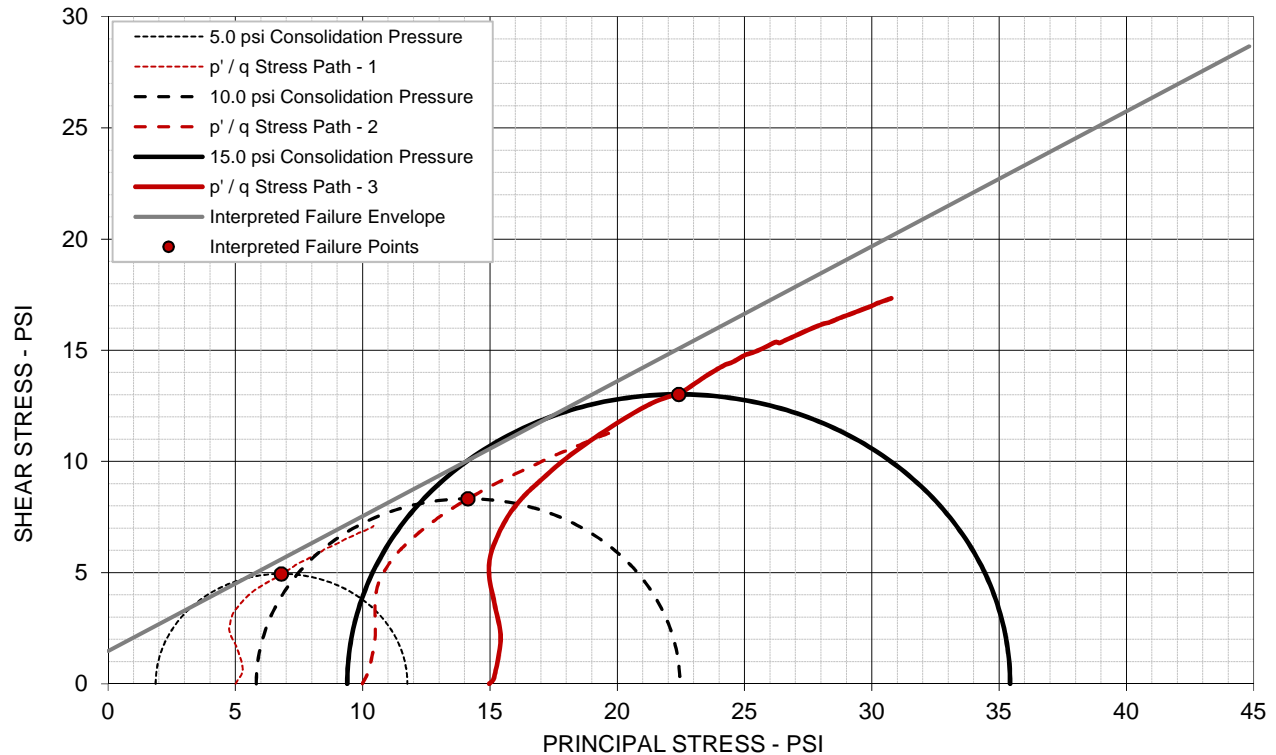
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting &
Engineering, PLLC
Charleston, SC

ICU TRIAXIAL COMPRESSION TEST

ASTM D4767 / AASHTO T297

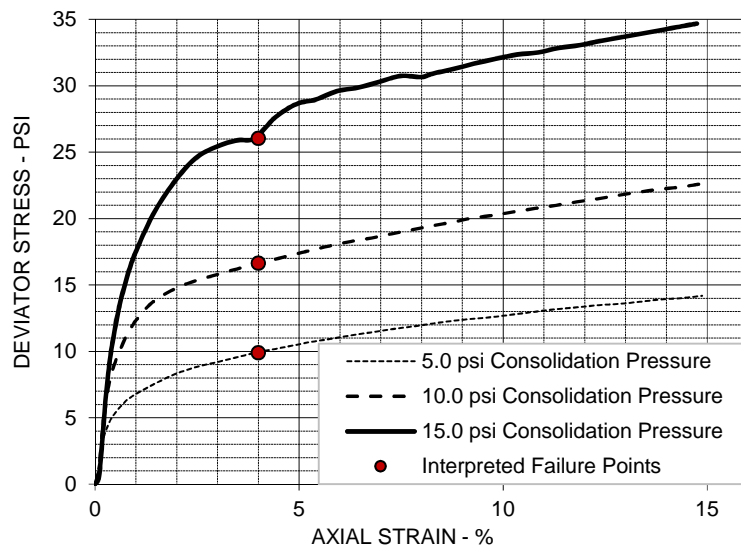
Failure Criteria: Set Strain = 4%



EFFECTIVE STRESS PARAMETERS

$\phi' = 31.2$ deg

$c' = 1.5$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	24.4	23.7	24.4
Dry Density - pcf	93.7	95.0	94.5
Diameter - inches	2.78	2.78	2.80
Height - inches	5.60	5.54	5.49

AT TEST

Final Moisture - %	33.5	29.9	28.5
Dry Density - pcf	93.7	95.3	94.5
Calculated Diameter (in.)	2.75	2.80	2.75
Height - inches	5.52	5.57	5.37
Effect. Consol. Stress - psi	5.0	10.0	15.0
Failure Stress - psi	9.89	16.64	26.04
Total Pore Pressure - psi	53.2	54.2	55.7
Strain Rate - inches/min.	0.0006	0.0006	0.0006
Failure Strain - %	4.0	4.0	4.0
σ_1' Failure - psi	11.76	22.46	35.43
σ_3' Failure - psi	1.87	5.82	9.39

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Remolded

DESCRIPTION: Fat Clay with Sand (CH) / A-7-5 (26)

SAMPLE ID: G-048 0-5'

SPECIFIC GRAVITY: 2.65

LL: 66 PL: 31 PI: 35 Percent -200: 72.1%

Remarks: Remolded to 95% of the Standard Proctor

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

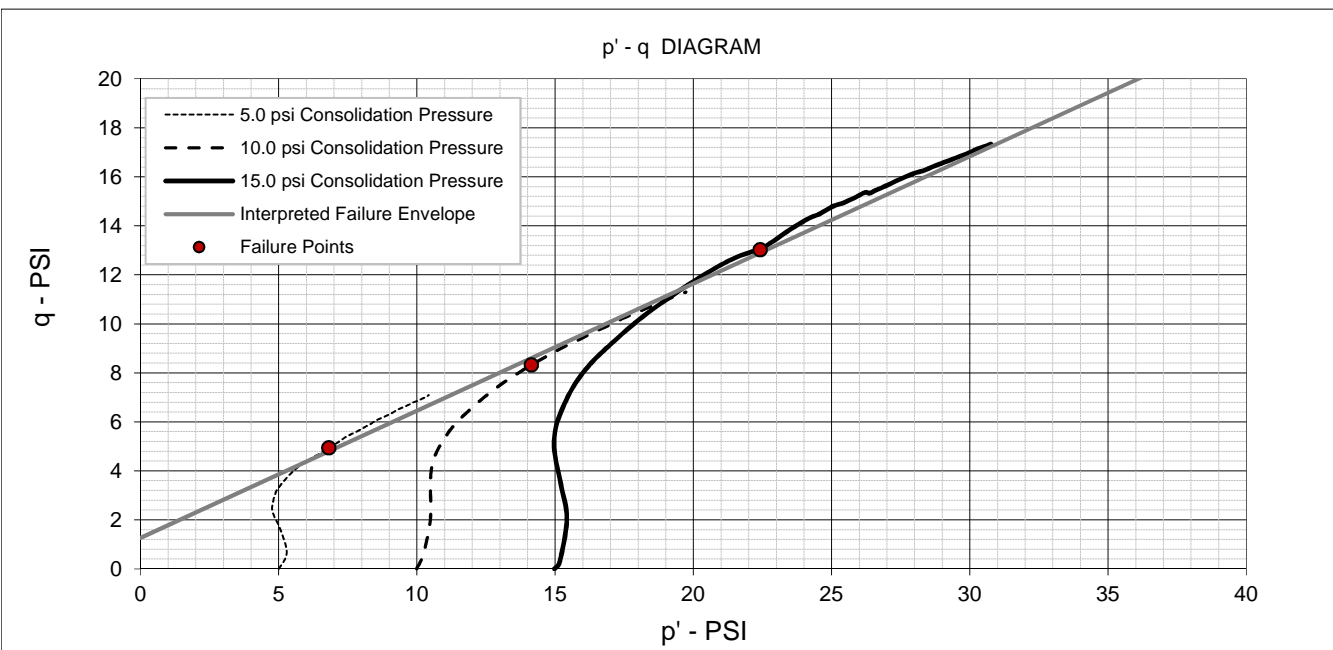
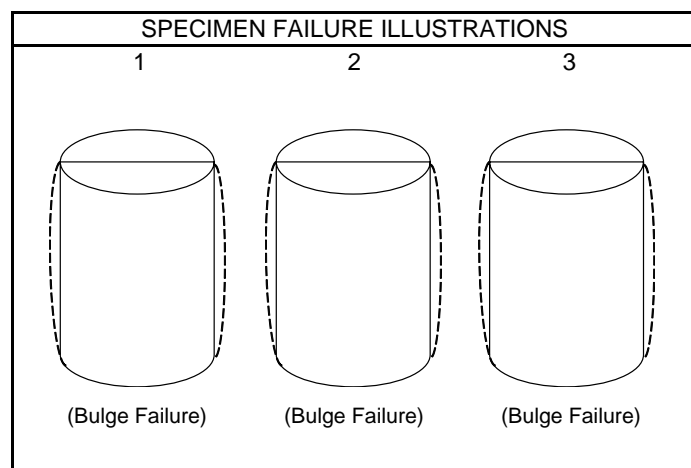
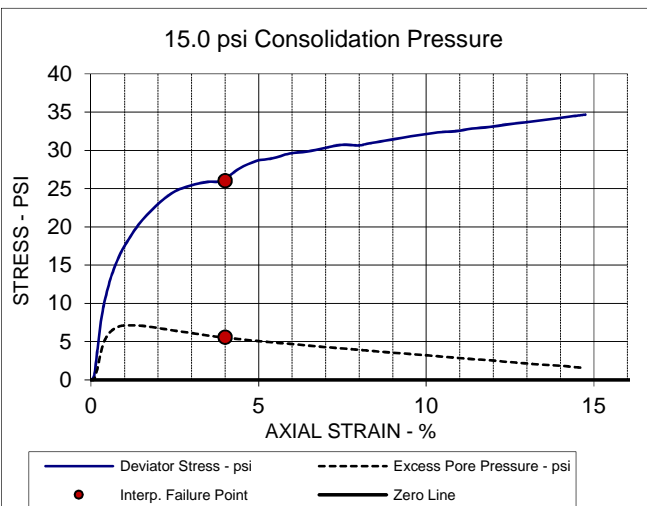
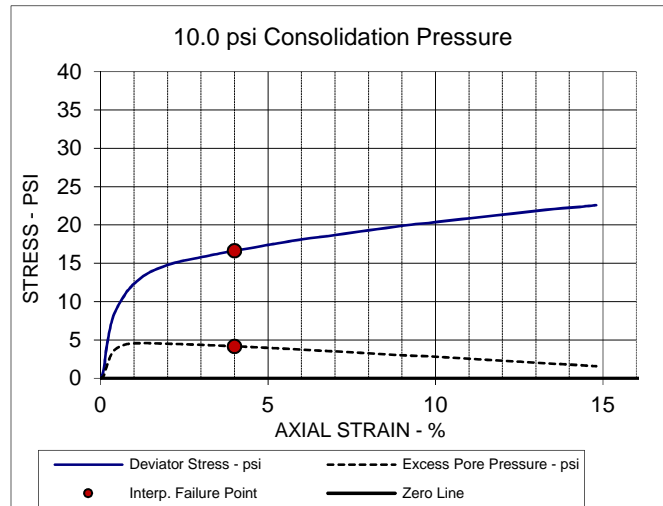
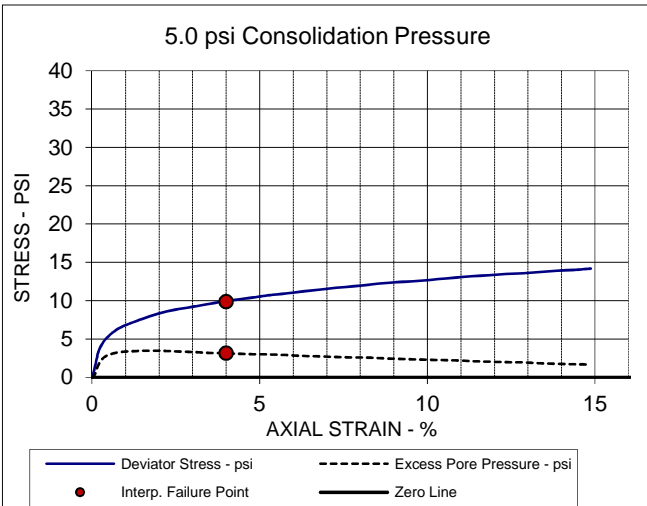
PROJECT #: 73225031


CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/18/22

521 Clemson Road
Columbia, SC

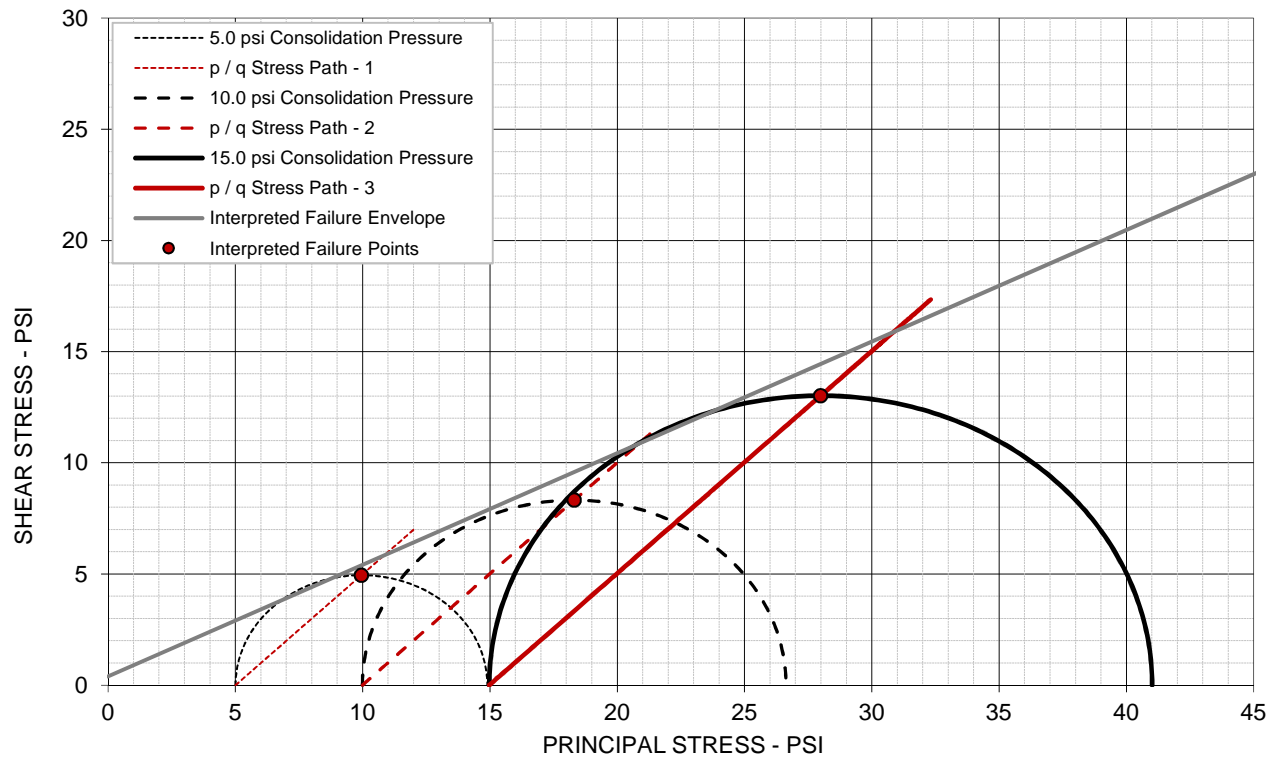




EFFECTIVE STRESS PARAMETERS		R ² = 1.00	α = 27.4 deg	a = 1.3 psi
PROJECT: Carolina Crossroads Phase 2			ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION TEST	
LOCATION: Richland and Lexington Counties, SC			CLIENT: Infrastructure Consulting & Engineering, PLLC	
SAMPLE ID: G-048 0-5'			<div>521 Clemson Road Columbia, SC</div> <div></div>	
DESCRIPTION: Fat Clay with Sand (CH) / A-7-5 (26)				

ICU TRIAXIAL COMPRESSION TEST ASTM D4767 / AASHTO T297

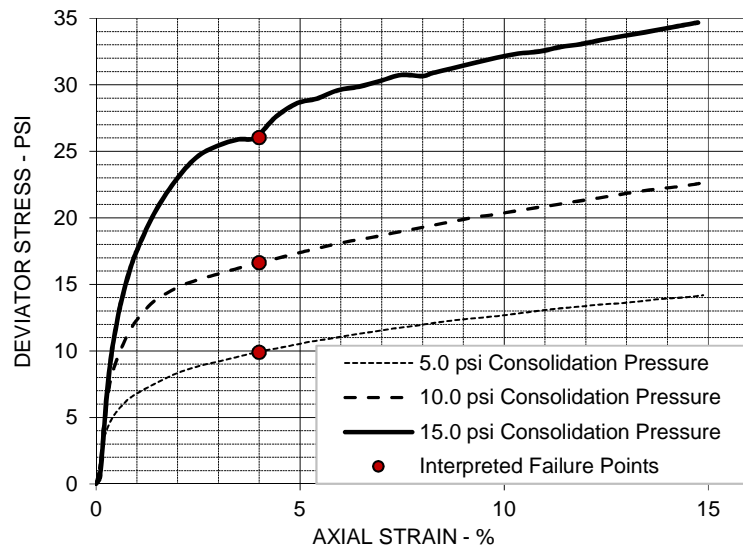
Failure Criteria: Set Strain = 4%



TOTAL STRESS PARAMETERS

$\phi = 26.7$ deg

$c = 0.4$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	24.4	23.7	24.4
Dry Density - pcf	93.7	95.0	94.5
Diameter - inches	2.78	2.78	2.80
Height - inches	5.60	5.54	5.49

AT TEST

Final Moisture - %	33.5	29.9	28.5
Dry Density - pcf	93.7	95.3	94.5
Calculated Diameter (in.)	2.75	2.80	2.75
Height - inches	5.52	5.57	5.37
Effect. Consol. Stress - psi	5.0	10.0	15.0
Failure Stress - psi	9.89	16.64	26.04
Total Pore Pressure - psi	53.2	54.2	55.7
Strain Rate - inches/min.	0.0006	0.0006	0.0006
Failure Strain - %	4.0	4.0	4.0
σ_1 Failure - psi	14.90	26.63	41.01
σ_3 Failure - psi	5.01	9.99	14.97

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION
 SAMPLE TYPE: Remolded
 DESCRIPTION: Fat Clay with Sand (CH) / A-7-5 (26)
 SAMPLE ID: G-048 0-5'
 SPECIFIC GRAVITY: 2.65
 LL: 66 PL: 31 PI: 35 Percent -200: 72.1%
 Remarks: Remolded to 95% of the Standard Proctor

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2
 LOCATION: Richland and Lexington Counties, SC
 PROJECT #: 73225031
 CLIENT: Infrastructure Consulting & Engineering, PLLC
 DATE: 03/18/22

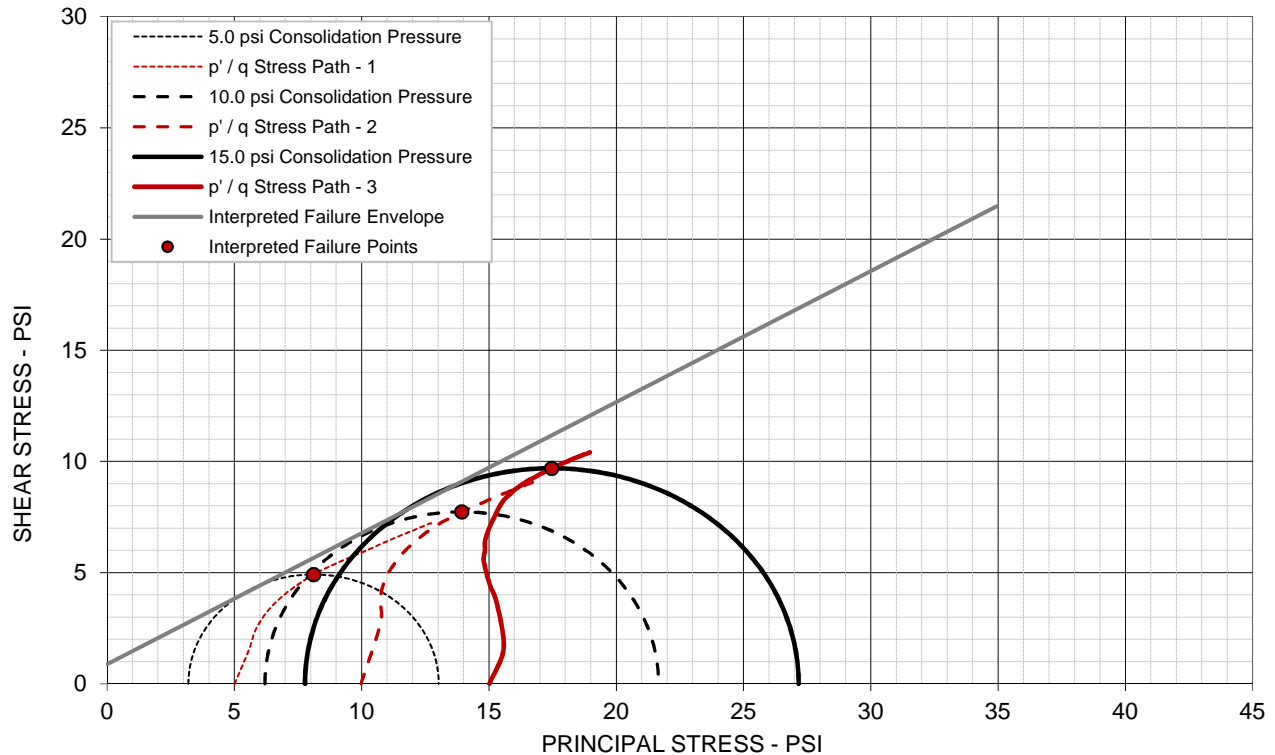
521 Clemson Road
Columbia, SC



ICU TRIAXIAL COMPRESSION TEST

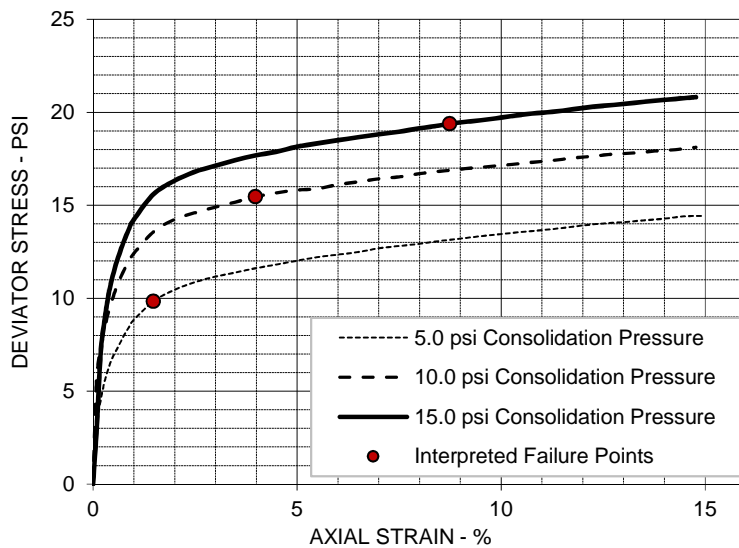
ASTM D4767 / AASHTO T297

Failure Criteria: Max Obliquity ($s_1': s_3'$)



EFFECTIVE STRESS PARAMETERS

$\phi' = 30.5$ deg $c' = 0.9$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	15.5	15.5	15.5
Dry Density - pcf	102.1	102.1	101.9
Diameter - inches	2.87	2.87	2.87
Height - inches	6.01	6.01	6.02

AT TEST

Final Moisture - %	26.0	25.3	25.3
Dry Density - pcf	102.3	102.9	103.6
Calculated Diameter (in.)	2.87	2.86	2.85
Height - inches	6.01	5.99	5.99
Effect. Consol. Stress - psi	5.0	10.0	15.0
Failure Stress - psi	9.83	15.46	19.39
Total Pore Pressure - psi	91.8	93.8	97.2
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	1.5	4.0	8.7
σ_1' Failure - psi	13.03	21.66	27.16
σ_3' Failure - psi	3.20	6.20	7.78

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: **Remolded**
 DESCRIPTION: Sandy Lean Clay (CL) / A-7-6 (7)
 SAMPLE ID: G-104 0-10'
 SPECIFIC GRAVITY: 2.65
 LL: 41 PL: 25 PI: 16 Percent -200: 54.7%

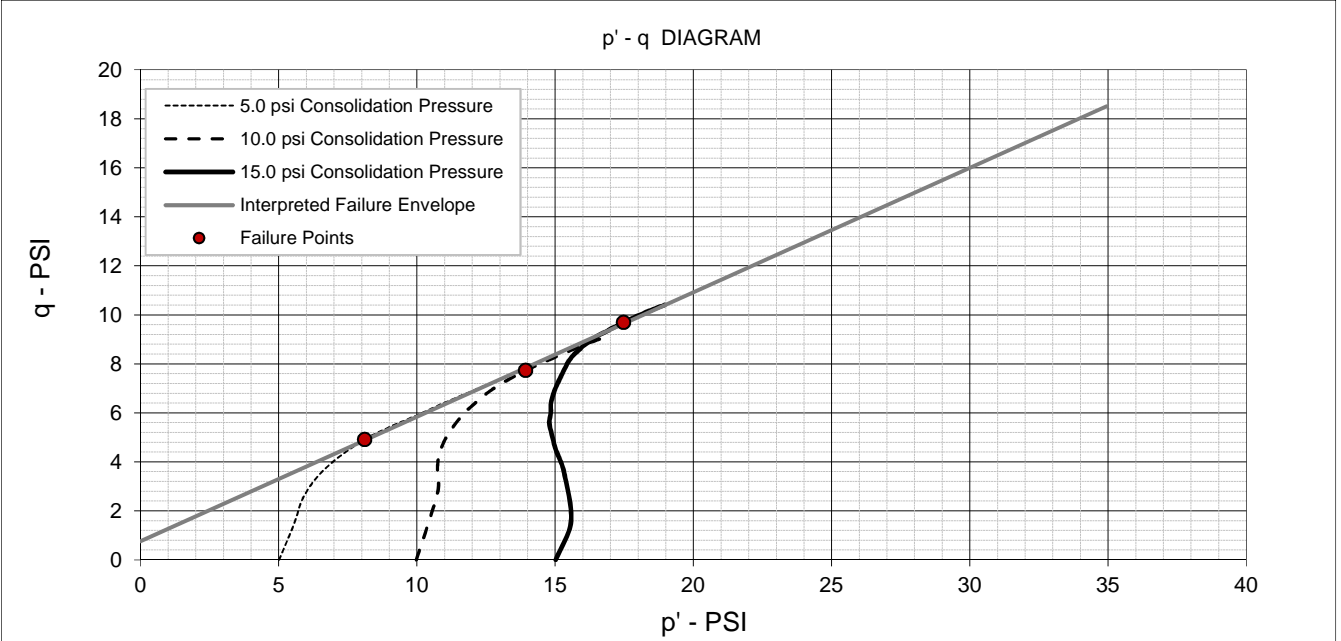
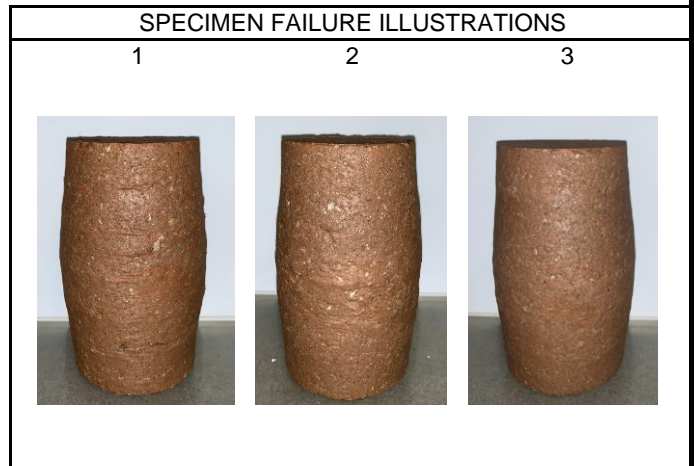
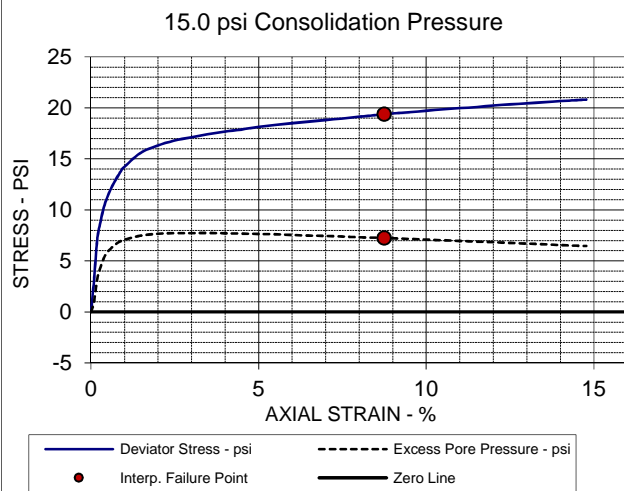
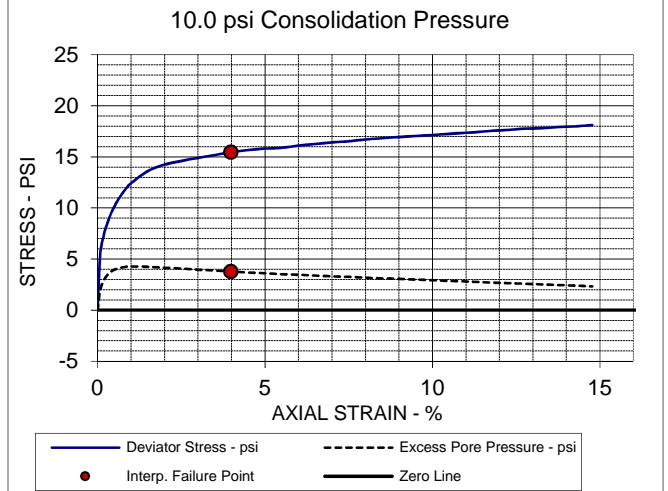
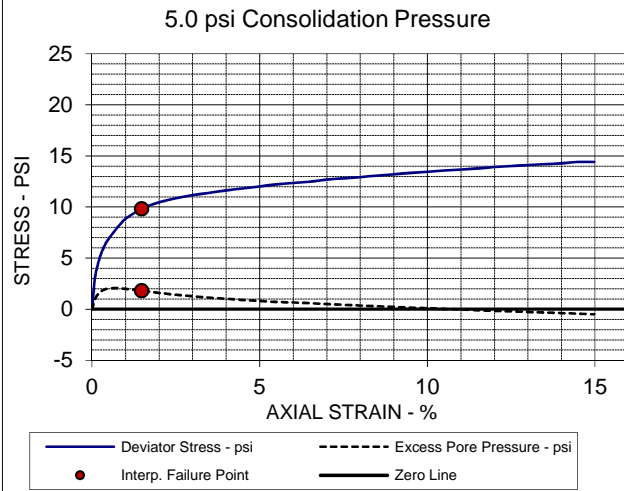
Remarks: Remolded to 95% of the Standard Proctor

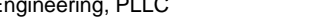
PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2
 LOCATION: Richland and Lexington Counties, SC
 PROJECT #: 73225031
 CLIENT: Infrastructure Consulting & Engineering, PLLC
 DATE: 03/25/22

521 Clemson Road
 Columbia, SC



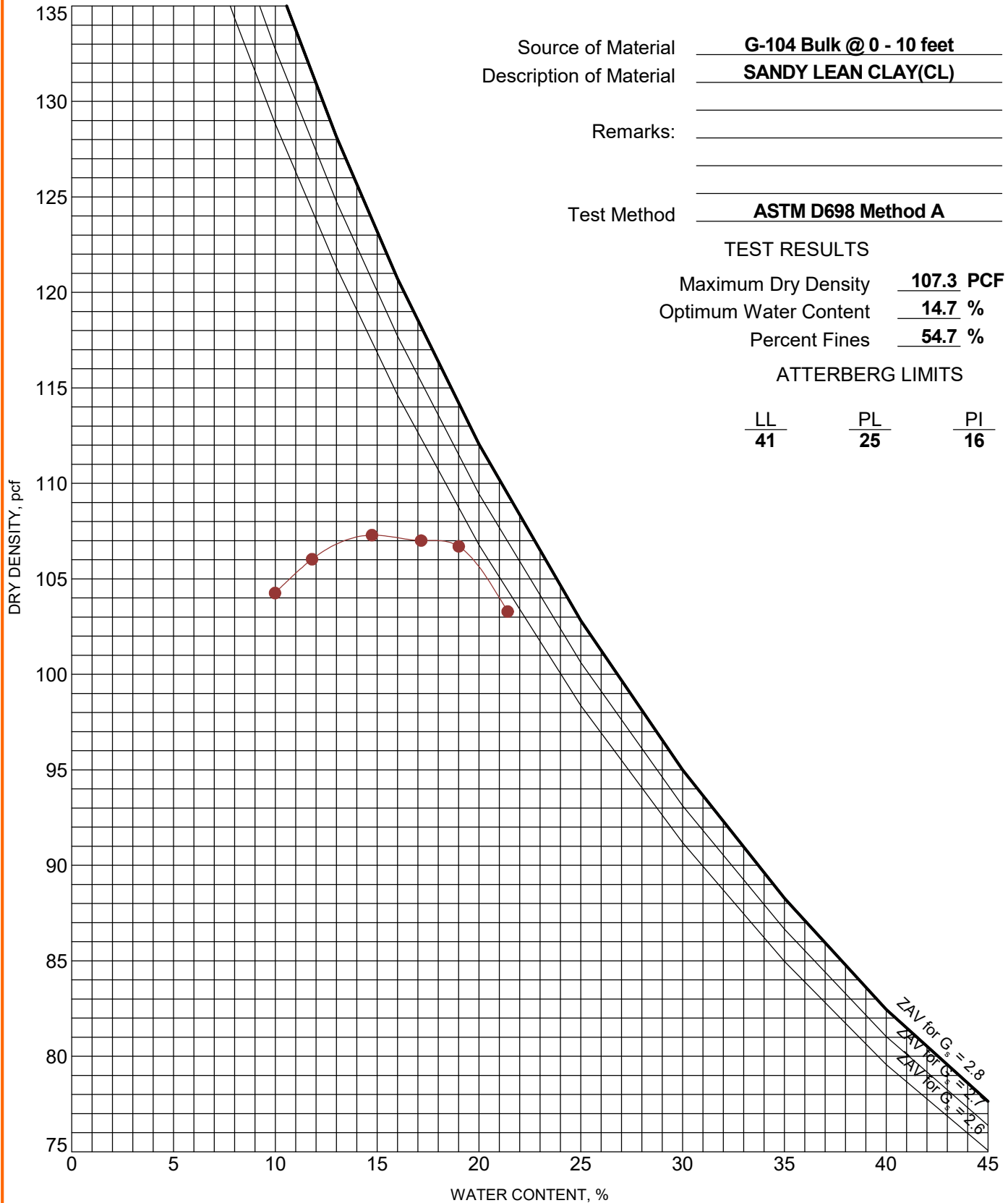


EFFECTIVE STRESS PARAMETERS		R ² = 1.00	α = 26.9 deg	a = 0.8 psi
PROJECT: Carolina Crossroads Phase 2			ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION TEST	
LOCATION: Richland and Lexington Counties, SC			CLIENT: Infrastructure Consulting & Engineering, PLLC	
SAMPLE ID: G-104 0-10'			<div>521 Clemson Road Columbia, SC</div> <div></div>	
DESCRIPTION: Sandy Lean Clay (CL) / A-7-6 (7)				

MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. COMPACTION - V2 73225031 CAROLINA CROSSROADS GPJ TERRACON_DATATEMPLATE.GDT 3/24/22



PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

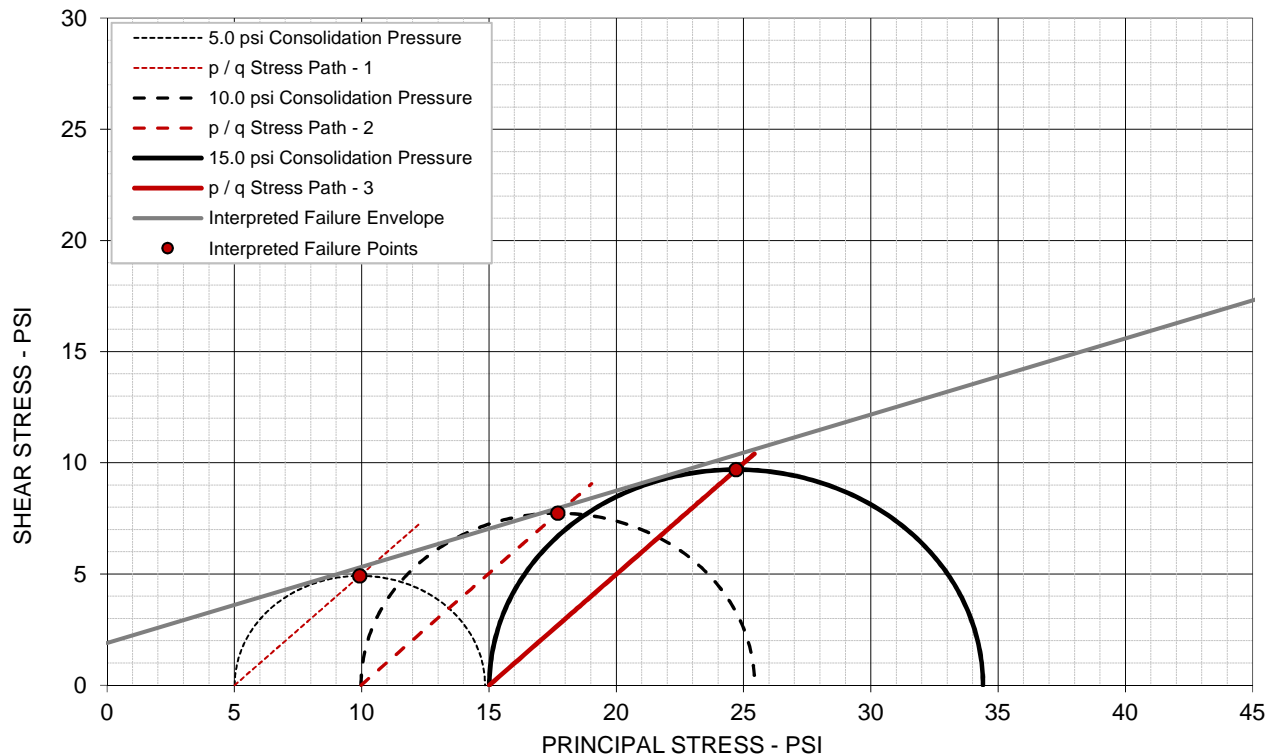
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting &
Engineering, PLLC
Charleston, SC

ICU TRIAXIAL COMPRESSION TEST

ASTM D4767 / AASHTO T297

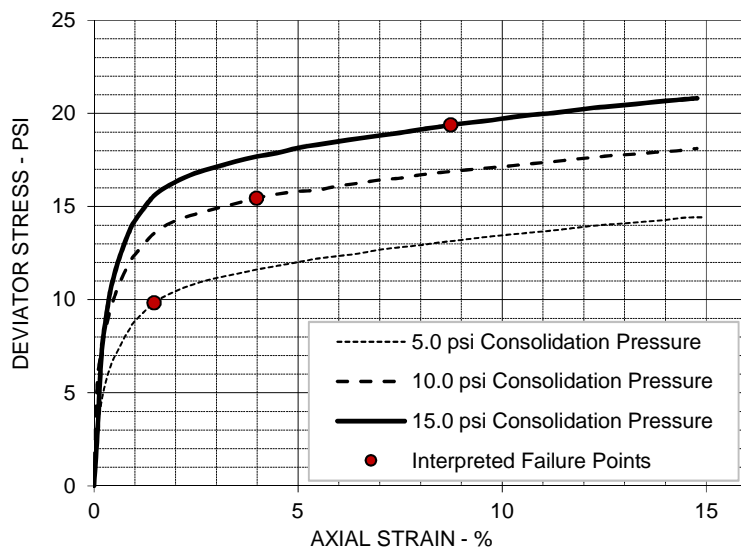
Failure Criteria: Max Obliquity (s1': s3')



TOTAL STRESS PARAMETERS

$\phi = 18.9 \text{ deg}$

$c = 1.9 \text{ psi}$



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	15.5	15.5	15.5
Dry Density - pcf	102.1	102.1	101.9
Diameter - inches	2.87	2.87	2.87
Height - inches	6.01	6.01	6.02

AT TEST

Final Moisture - %	26.0	25.3	25.3
Dry Density - pcf	102.3	102.9	103.6
Calculated Diameter (in.)	2.87	2.86	2.85
Height - inches	6.01	5.99	5.99
Effect. Consol. Stress - psi	5.0	10.0	15.0
Failure Stress - psi	9.83	15.46	19.39
Total Pore Pressure - psi	91.8	93.8	97.2
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	1.5	4.0	8.7
σ_1 Failure - psi	14.85	25.44	34.40
σ_3 Failure - psi	5.01	9.98	15.02

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Remolded

DESCRIPTION: Sandy Lean Clay (CL) / A-7-6 (7)

SAMPLE ID: G-104 0-10'

SPECIFIC GRAVITY: 2.65

LL: 41 PL: 25 PI: 16 Percent -200: 54.7%

Remarks: Remolded to 95% of the Standard Proctor

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

PROJECT #: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/25/22

521 Clemson Road
Columbia, SC



Carolina Crossroads - Phase 2

Geotechnical Subsurface Data Report

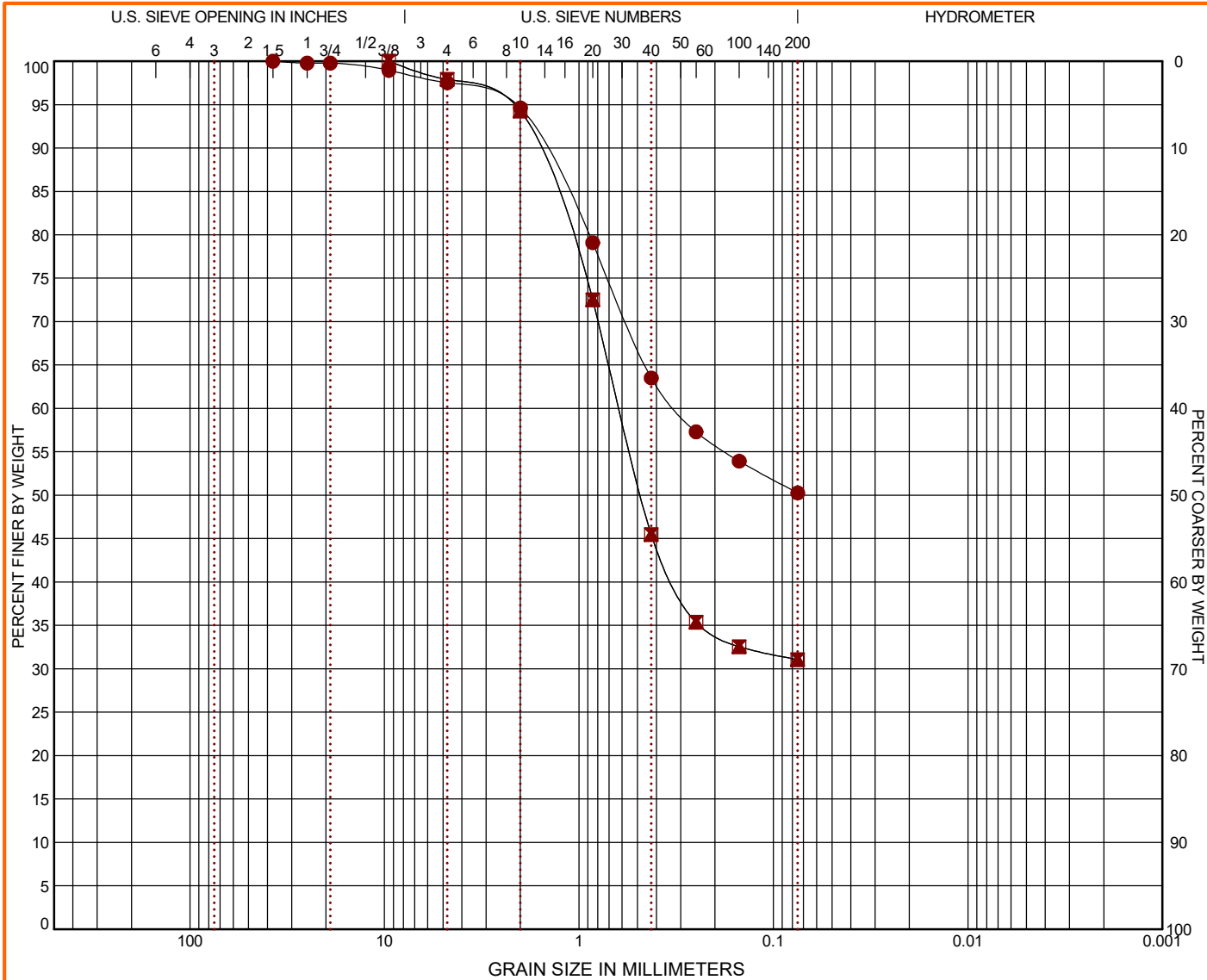
APPENDIX D – ROADWAY

SECTION 4 LABORATORY TEST RESULTS

SECTION 4C SHELBY TUBE SAMPLES

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-024 Bulk	0 - 15	0.0	2.5	47.3		50.3		CH
☒ G-129A	20 - 22	0.0	2.1	66.8		31.1		SC
▲ G-129A	22 - 24	0.0	2.1	66.8		31.1		SC

GRAIN SIZE				SOIL DESCRIPTION			
	●	☒	▲	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.315	0.617	0.617	1 1/2"	100.0	3/8"	100.0
D ₃₀				1"	99.78	#4	97.89
D ₁₀				3/4"	99.78	#10	94.26
				3/8"	98.95	#20	72.5
				#4	97.52	#40	45.47
				#10	94.62	#60	35.36
				#20	79.09	#100	32.54
				#40	63.51	#200	31.06
				#60	57.3		
				#100	53.92		
				#200	50.26		
COEFFICIENTS				REMARKS			
	●	☒	▲	●	A-7-6 (15)		
C _c				☒	A-2-7 (4)		
C _u				▲	A-2-7 (4)		

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC



PROJECT NUMBER: 73225031

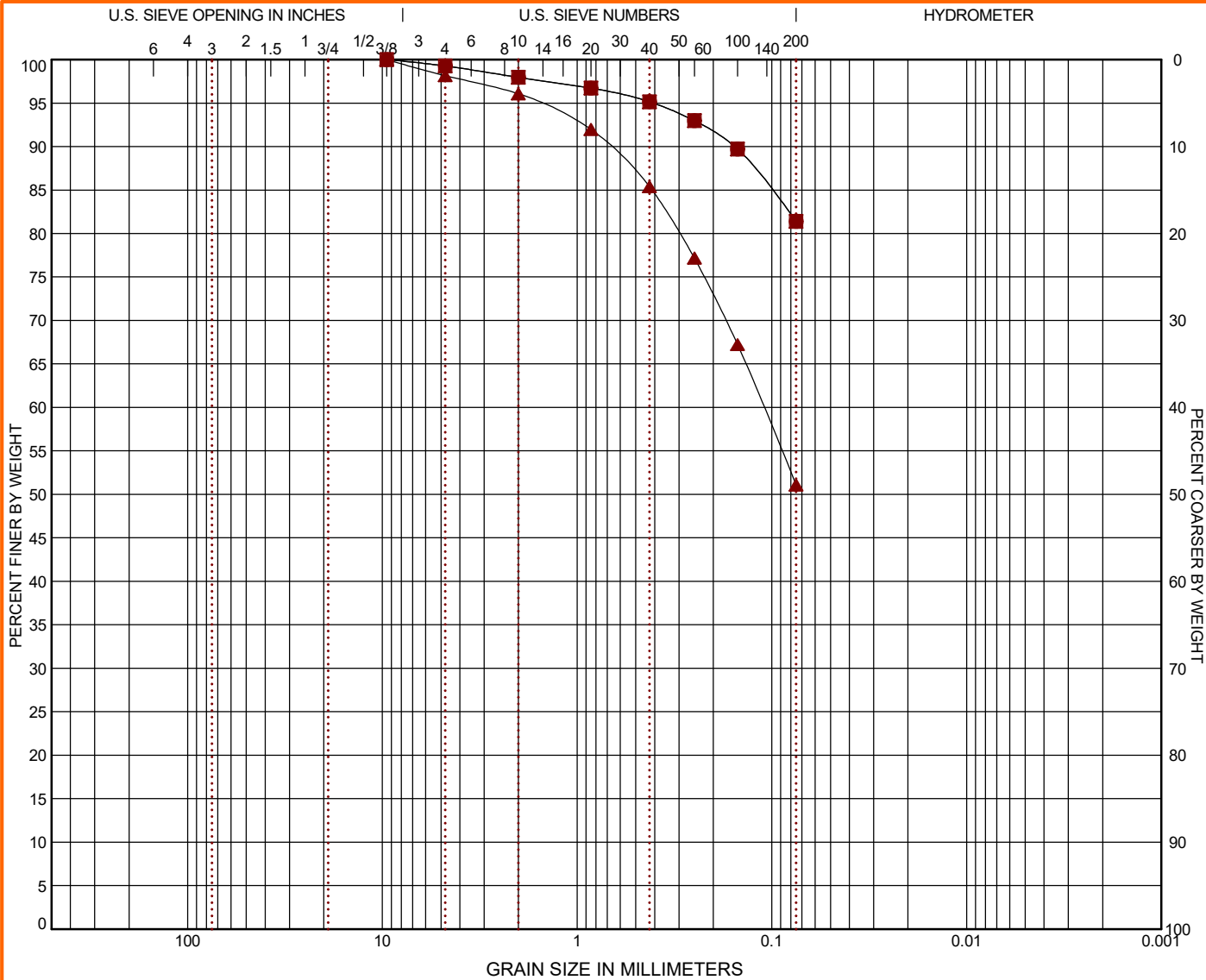
CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: AASHTO DESC-1 73225031 CAROLINA CROSSROADS GPJ TERRACON DATATEMPLATE.GDT 4/20/22

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: AASHTO DESC-1 73225031 CAROLINA CROSSROADS.GPJ TERRACON_DATATEMPLATE.GDT 4/20/22



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-138A	22 - 24	0.0	0.7	17.9		81.4		MH
✕ G-138A	24 - 26	0.0	0.7	17.9		81.4		MH
▲ G-069A	6 - 8	0.0	1.9	47.1		51.1		CH

GRAIN SIZE			
	●	✕	▲
D ₆₀			0.11
D ₃₀			
D ₁₀			
COEFFICIENTS			
	●	✕	▲
C _c			
C _u			

Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
3/8"	100.0	3/8"	100.0	3/8"	100.0
#4	99.26	#4	99.26	#4	98.15
#10	97.95	#10	97.95	#10	96.07
#20	96.72	#20	96.72	#20	91.97
#40	95.15	#40	95.15	#40	85.39
#60	92.98	#60	92.98	#60	77.17
#100	89.71	#100	89.71	#100	67.22
#200	81.39	#200	81.39	#200	51.08

SOIL DESCRIPTION	
●	A-7-5 (17)
✕	A-7-5 (17)
▲	A-7-6 (10)
REMARKS	
●	
✕	
▲	

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC



PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

ASTM D422 / ASTM C136



PROJECT: Carolina Crossroads Phase 2	 521 Clemson Rd Columbia, SC	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

ASTM D422 / ASTM C136



ASTM D422 / ASTM C136

COBBLES

GRAVEL

SAND

SILT OR CLAY

coarse

fine

coarse

medium

fine

GROUP

100

BORING ID

DEPTH

% COBBLES

% GRAVEL

% SAND

% SIL

% FINES

% CLAY

USCS

GRAIN SIZE




	●	☒	▲
D ₆₀	0.611	0.651	0.082
D ₃₀		0.255	
D ₁₀			

●		☒		▲	
Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
3/8"	100.0	3/4"	100.0	3/8"	100.0
#4	99.5	3/8"	97.05	#4	99.83
#10	95.03	#4	96.41	#10	98.91
#20	72.96	#10	93.29	#20	96.05
#40	45.8	#20	72.86	#40	89.72
#60	34.48	#40	39.42	#60	81.93
#100	31.84	#60	29.63	#100	73.42
#200	30.5	#100	27.84	#200	58.1
		#200	27.21		

SOIL DESCRIPTION

●	A-2-7 (2)
☒	A-2-7 (0)
▲	A-7-5 (6)
REMARKS	
●	
☒	
▲	

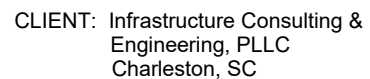
COEFFICIENTS

			
C_C			
C_U			

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

CLIENT: Infrastructure Consulting &
Engineering, PLLC
Charleston, SC

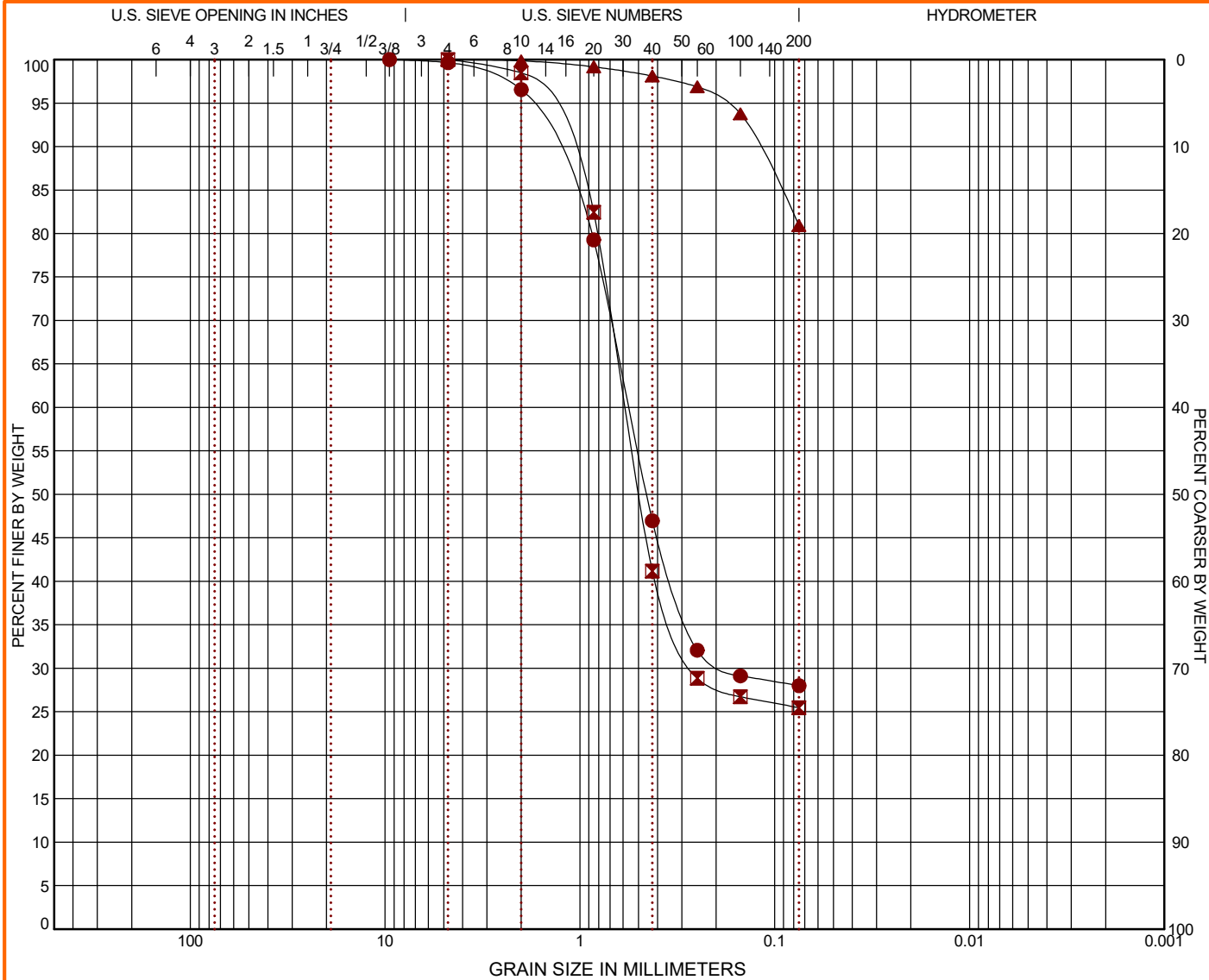
ASTM D422 / ASTM C136

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: AASHTO DESC-1 73225031 CAROLINA CROSSROAD GPJ TERRACON_DATATEMPLATE.GDT 4/20/22

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: AASHTO DESC-1 73225031 CAROLINA CROSSROADS.GPJ TERRACON_DATATEMPLATE.GDT 4/20/22



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-128	24.2 - 25.7	0.0	0.4	71.6		28.0		
☒ G-128	29.2 - 30.7	0.0	0.0	74.5		25.5		SM
▲ G-128	44.2 - 45.7	0.0	0.0	19.1		80.9		ML

GRAIN SIZE			
	●	☒	▲
D ₆₀	0.562	0.583	
D ₃₀	0.175	0.263	
D ₁₀			

Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
3/8"	100.0	#4	100.0	#60	96.87
#4	99.64	#10	98.47	#100	80.91
#10	96.54	#20	82.45	#200	28.0
#20	79.27	#40	41.16		
#40	46.96	#60	28.84		
#60	32.07	#100	26.72		
#100	29.12	#200	25.47		
#200	28.0				

SOIL DESCRIPTION	
●	
☒	A-2-6 (0)
▲	A-7-6 (15)

COEFFICIENTS			
	●	☒	▲
C _c			
C _u			

REMARKS	
●	
☒	
▲	

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC



PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

ASTM D422 / ASTM C136

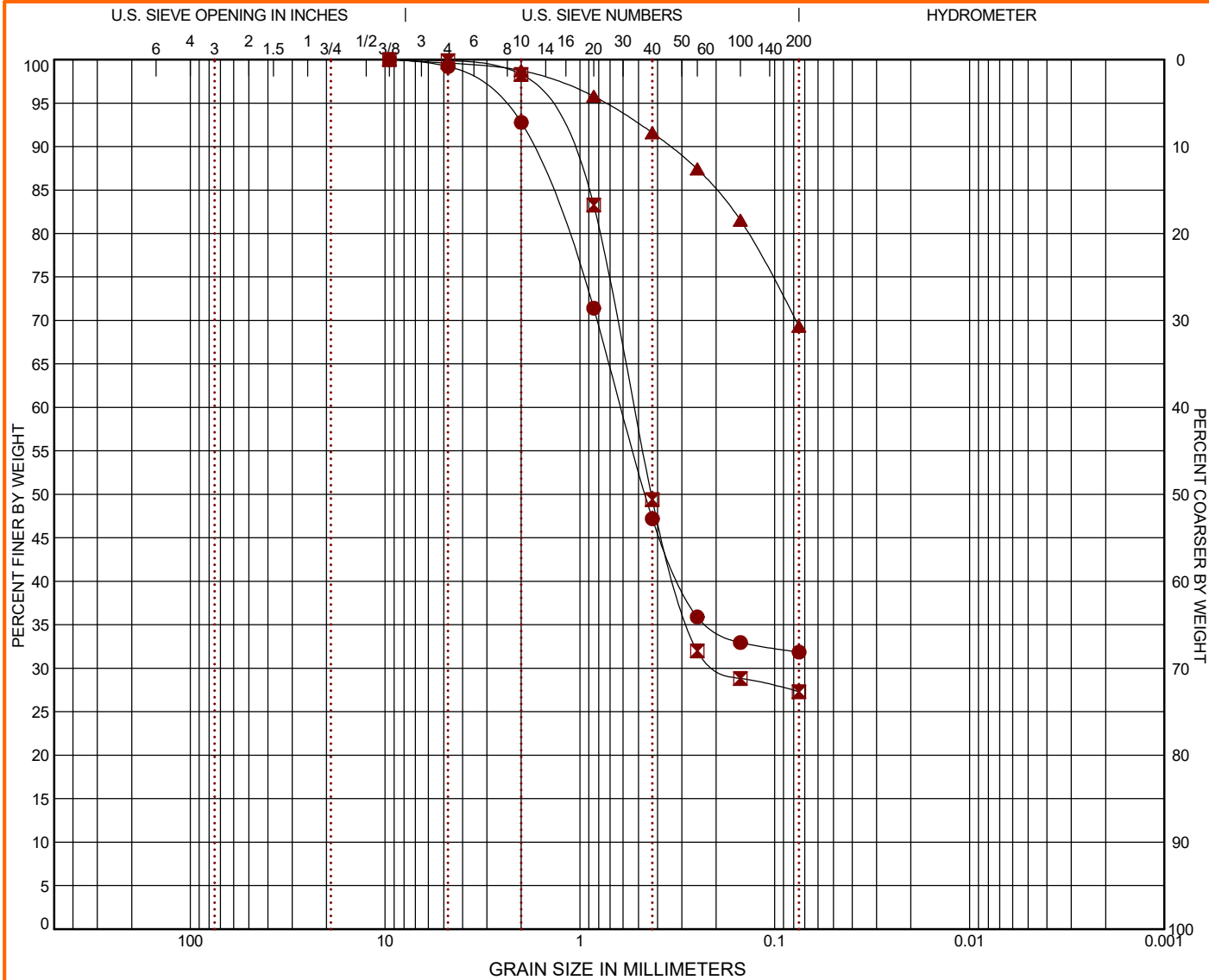


PROJECT: Carolina Crossroads Phase 2	 521 Clemson Rd Columbia, SC	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-129	19.2 - 20.7	0.0	0.8	67.3		31.9		SC
☒ G-129	29.2 - 30.7	0.0	0.1	72.5		27.3		SM
▲ G-129	44.2 - 45.7	0.0	0.4	30.3		69.3		CL

GRAIN SIZE				SOIL DESCRIPTION			
	●	☒	▲	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.613	0.528		3/8"	100.0	3/8"	100.0
D ₃₀		0.181		#4	99.2	#4	99.86
D ₁₀				#10	92.77	#10	98.29
				#20	71.41	#20	83.27
				#40	47.2	#40	49.39
				#60	35.9	#60	32.0
				#100	32.96	#100	28.84
				#200	31.86	#200	27.31
COEFFICIENTS				REMARKS			
	●	☒	▲				
C _c							
C _u							

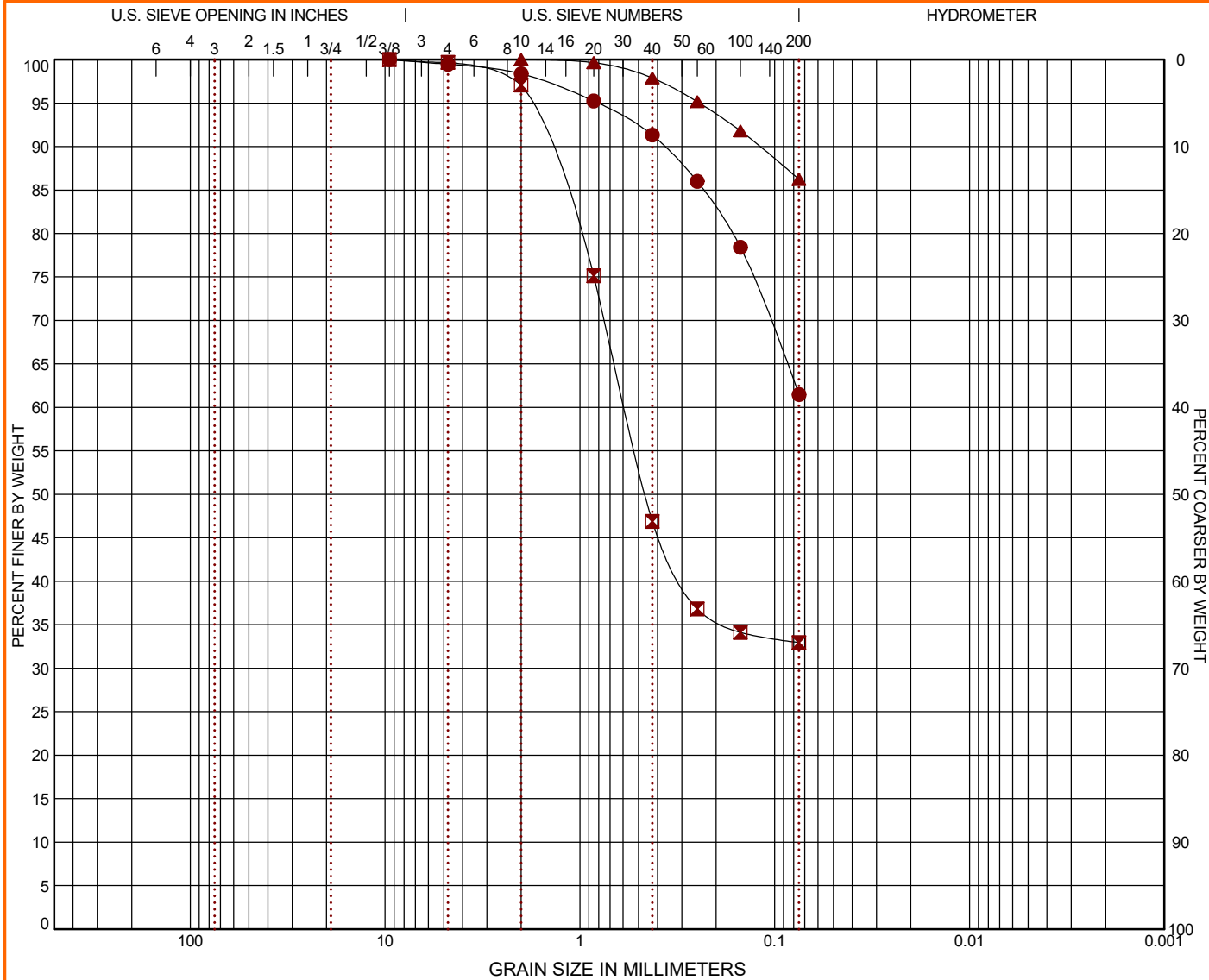
PROJECT: Carolina Crossroads Phase 2	<p>521 Clemson Rd Columbia, SC</p>	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

ASTM D422 / ASTM C136

GRAIN SIZE DISTRIBUTION

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-140	38.1 - 39.6	0.0	0.5	38.0		61.5		MH
☒ G-033	6 - 8	0.0	0.3	66.7		33.0		SM
▲ G-033	18.6 - 20.1	0.0	0.0	13.8		86.2		ML

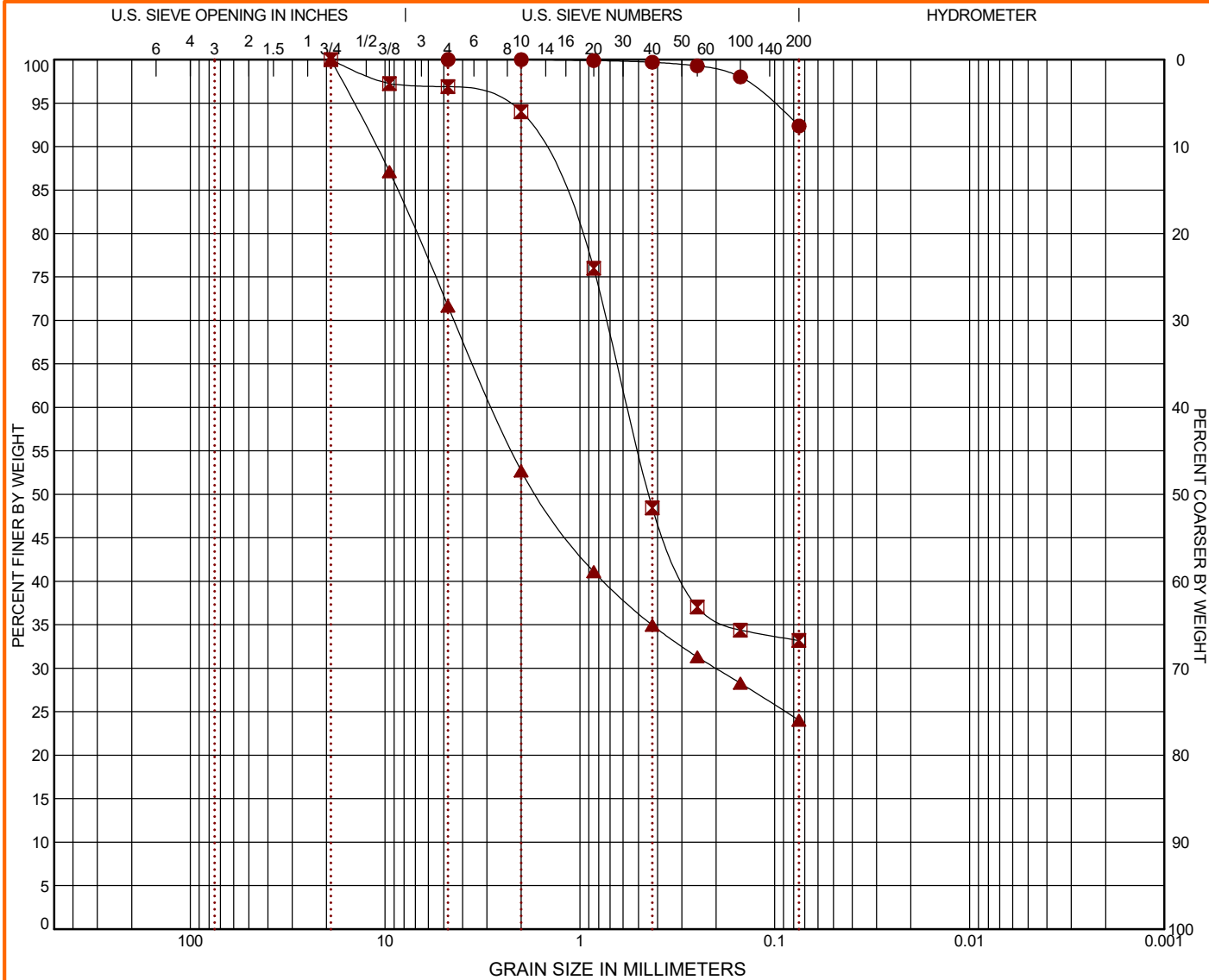
GRAIN SIZE				SOIL DESCRIPTION			
	●	☒	▲	Sieve	% Finer	Sieve	% Finer
D ₆₀		0.586		3/8"	100.0	3/8"	100.0
D ₃₀				#4	99.46	#4	99.68
D ₁₀				#10	98.36	#10	97.07
				#20	95.24	#20	75.13
				#40	91.33	#40	46.89
				#60	86.0	#60	36.84
				#100	78.42	#100	34.13
				#200	61.47	#200	32.96
COEFFICIENTS				REMARKS			
	●	☒	▲				
C _c							
C _u							

PROJECT: Carolina Crossroads Phase 2	<p>521 Clemson Rd Columbia, SC</p>	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

GRAIN SIZE DISTRIBUTION

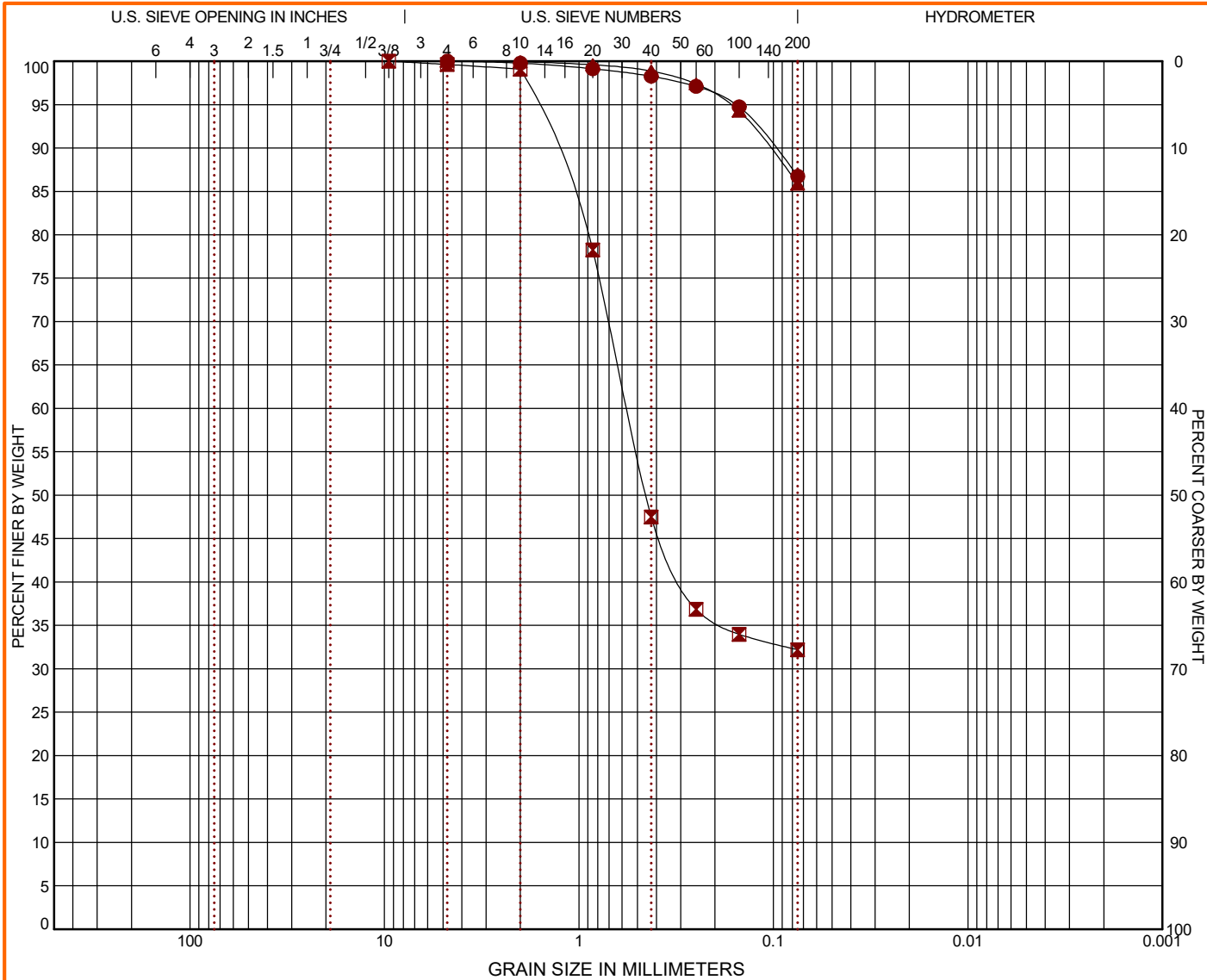
ASTM D422 / ASTM C136

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GRAIN SIZE DISTRIBUTION

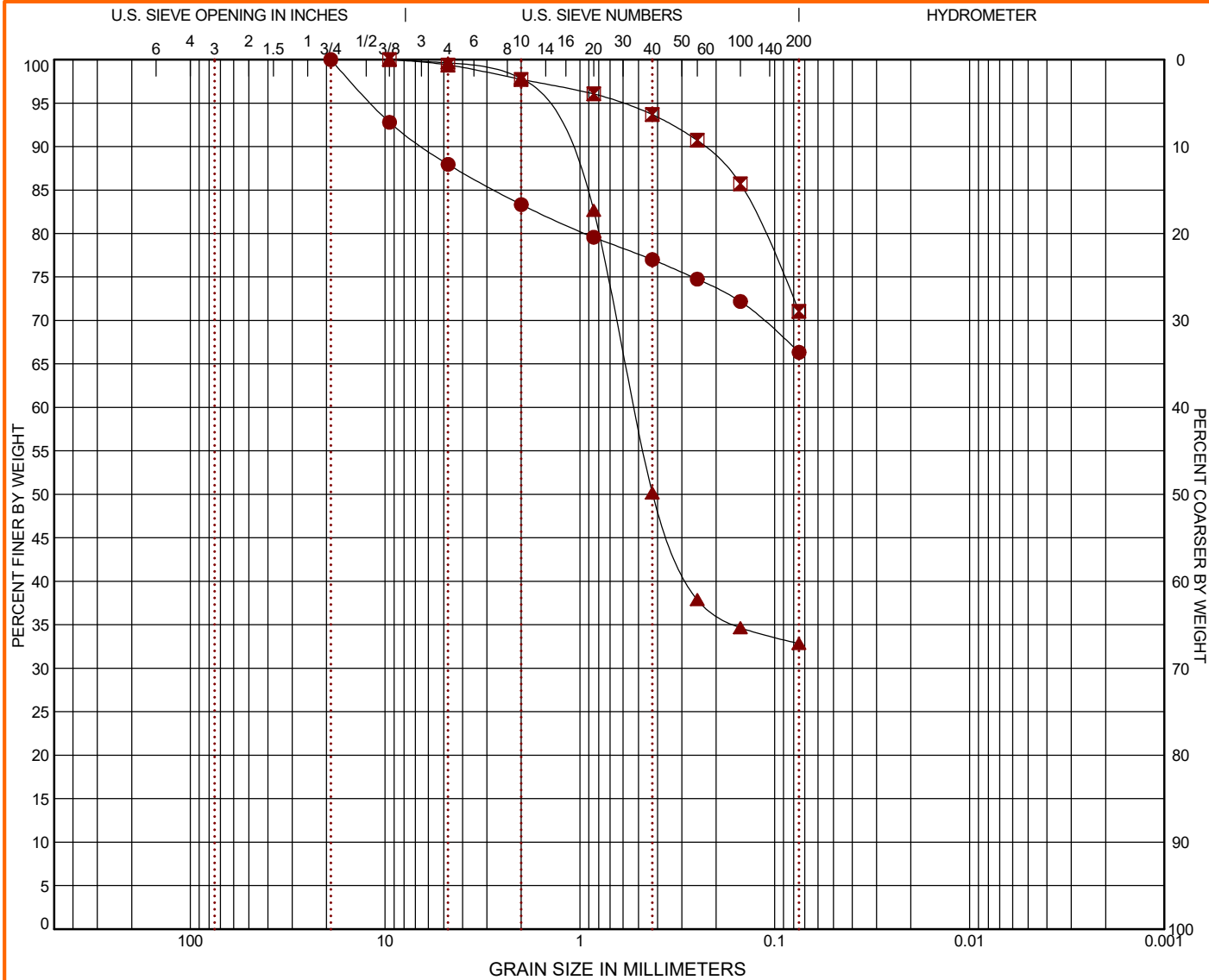
ASTM D422 / ASTM C136



GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-138	34.2 - 35.7	0.0	12.1	21.6		66.3		ML
☒ G-138	49.2 - 50.7	0.0	0.6	28.3		71.1		ML
▲ G-136	8 - 10	0.0	0.4	66.8		32.8		SC

GRAIN SIZE				SOIL DESCRIPTION			
	●	☒	▲	Sieve	% Finer	Sieve	% Finer
D ₆₀			0.524	3/4"	100.0	3/8"	100.0
D ₃₀				3/8"	92.79	#4	99.38
D ₁₀				#4	87.95	#10	97.72
				#10	83.32	#20	96.05
				#20	79.57	#40	93.67
				#40	76.99	#60	90.72
				#60	74.75	#100	85.71
				#100	72.18	#200	71.06
				#200	66.34		
COEFFICIENTS				REMARKS			
C _c	●	☒	▲	●	A-4 (0)		
C _u				☒	A-4 (0)		
				▲	A-2-7 (2)		

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

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Columbia, SC

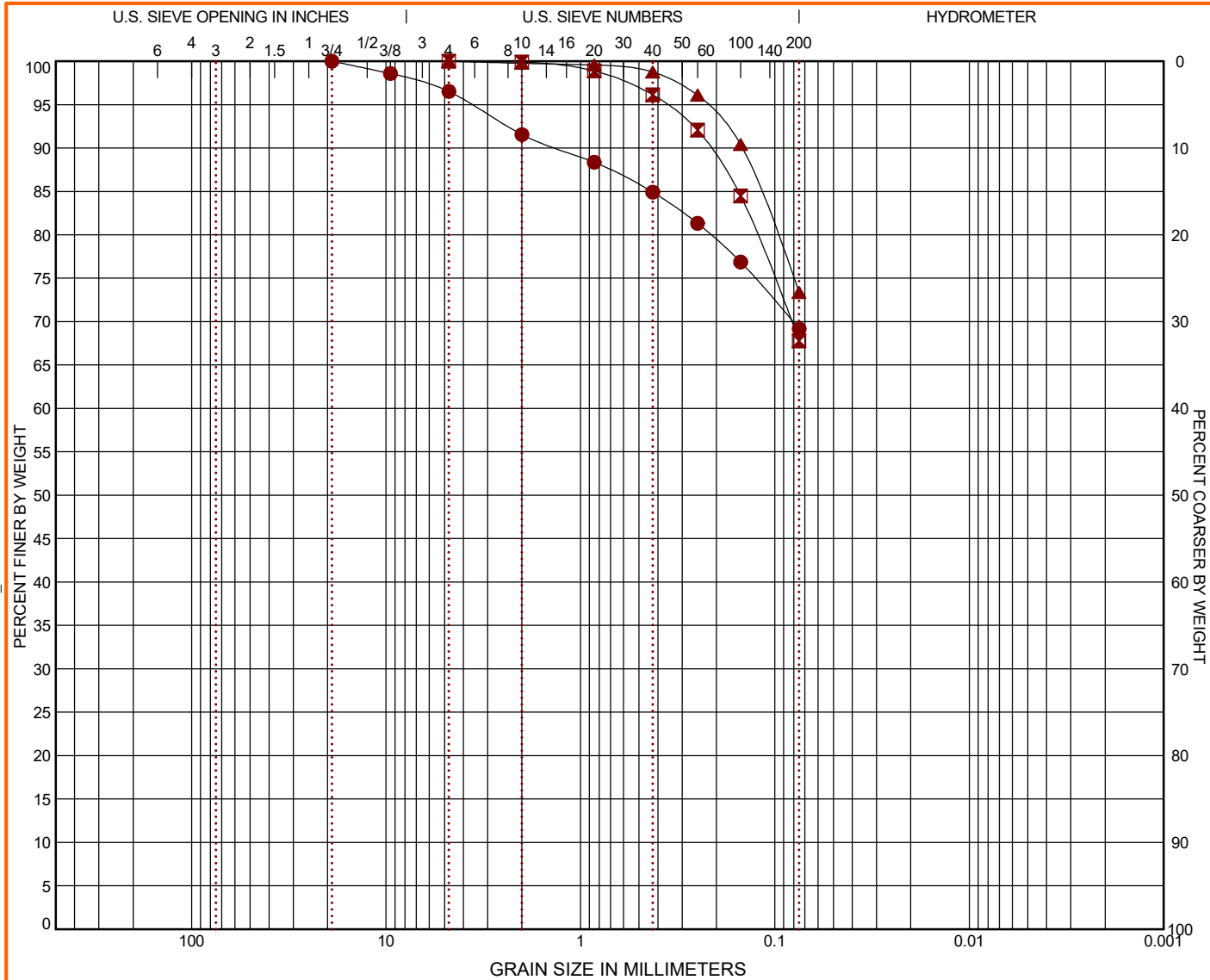
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
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GRAIN SIZE DISTRIBUTION

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-136	23.4 - 24.9	0.0	3.5	27.4		69.2		ML
☒ G-136	38.4 - 39.9	0.0	0.0	32.2		67.8		MH
▲ G-136	48.4 - 49.9	0.0	0.0	26.6		73.4		MH

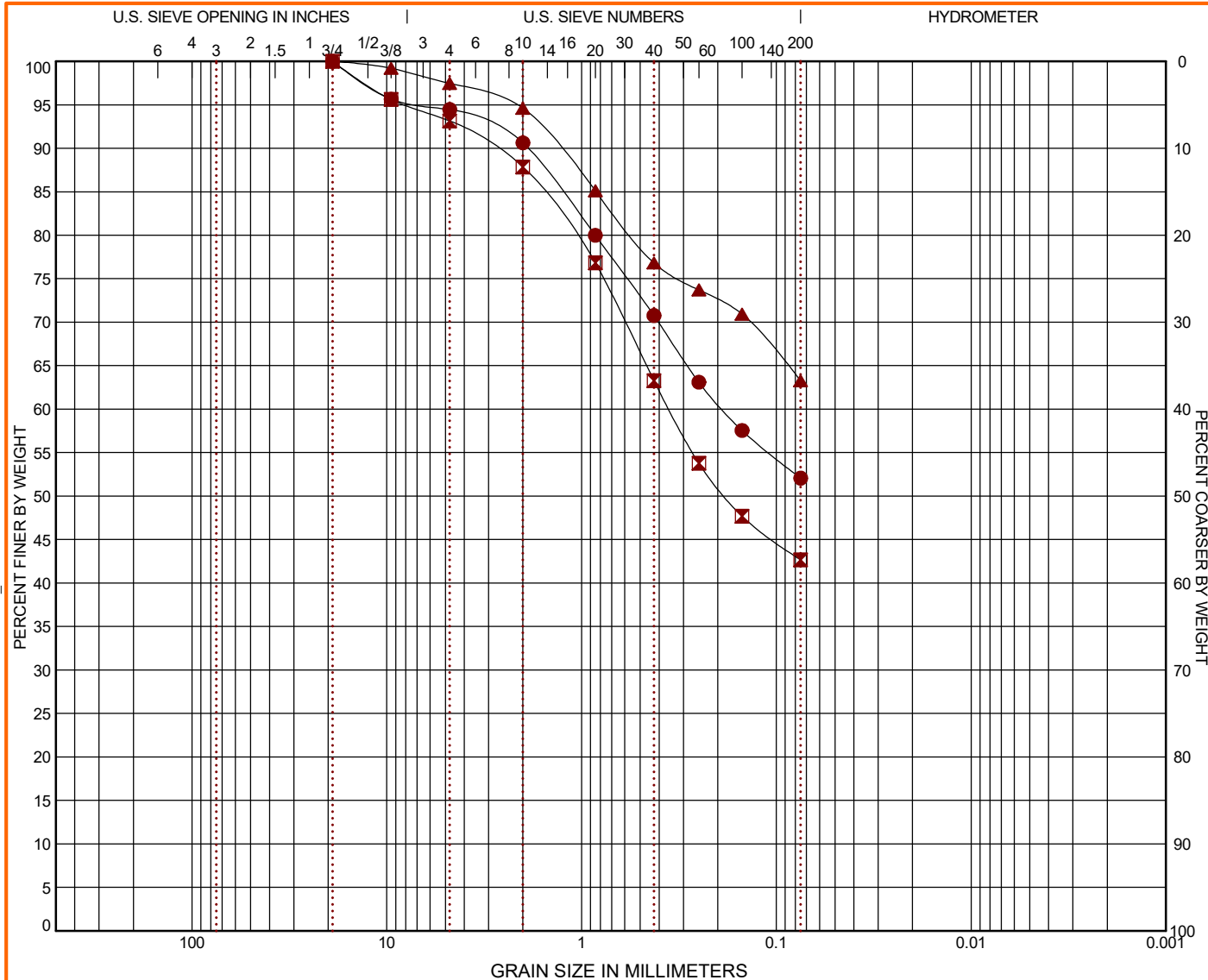
GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀				3/4"	100.0	#10	99.9	#4	100.0
D ₃₀				3/8"	98.58	#20	98.88	#10	99.76
D ₁₀				#4	96.51	#40	96.14	#20	99.57
				#10	91.54	#60	92.06	#40	98.75
				#20	88.35	#100	84.49	#60	96.09
				#40	84.91	#200	67.79	#100	90.39
				#60	81.33	#4	100.0	#200	73.37
				#100	76.86				
				#200	69.16				
COEFFICIENTS				REMARKS					
	●	☒	▲						
C _c									
C _u									

PROJECT: Carolina Crossroads Phase 2	 521 Clemson Rd Columbia, SC	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

GRAIN SIZE DISTRIBUTION

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-088	2 - 4	0.0	5.5	42.4		52.1		CL
☒ G-102	6 - 8	0.0	6.8	50.5		42.7		SC
▲ G-102	18.5 - 20	0.0	2.5	34.2		63.3		ML

GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.188	0.354		#60	63.1	3/4"	100.0	3/4"	100.0
D ₃₀				#100	57.55	3/8"	95.61	3/8"	99.19
D ₁₀				#200	52.06	#4	93.15	#4	97.46
				3/4"	100.0	#10	87.86	#10	94.61
				3/8"	95.65	#20	76.83	#20	85.11
				#4	94.46	#40	63.28	#40	76.81
				#10	90.62	#60	53.79	#60	73.71
				#20	79.99	#100	47.69	#100	70.93
				#40	70.76	#200	42.67	#200	63.25
COEFFICIENTS				REMARKS					
C _c	●	☒	▲	●	A-7-6 (9)				
C _u				☒	A-6 (3)				
				▲	A-4 (0)				

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
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Columbia, SC

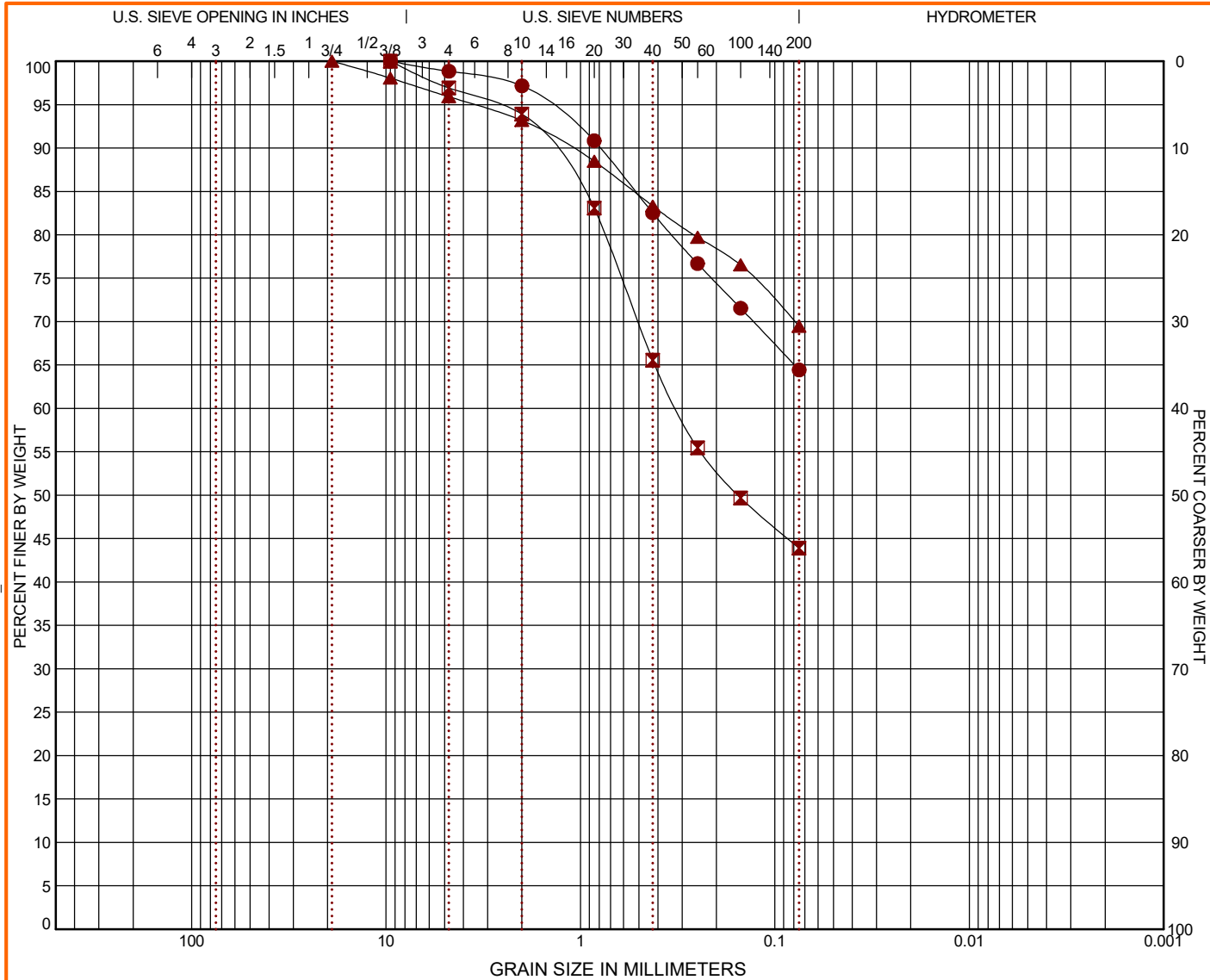
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
G-102	33.5 - 35	0.0	1.2	34.4		64.4		ML
G-028	6 - 8	0.0	3.1	53.0		43.9		SC
G-029	2 - 4	0.0	4.1	26.4		69.5		ML

GRAIN SIZE				SOIL DESCRIPTION			
	●	☒	▲	Sieve	% Finer	Sieve	% Finer
D ₆₀		0.317		3/8"	100.0	3/4"	100.0
D ₃₀				#4	98.84	#4	96.92
D ₁₀				#10	97.17	#10	93.9
				#20	90.83	#20	83.08
				#40	82.52	#40	65.56
				#60	76.69	#60	55.45
				#100	71.54	#100	49.68
				#200	64.43	#200	43.9
						#100	76.53
						#200	69.46
COEFFICIENTS				REMARKS			
	●	☒	▲	●	A-7-5 (8)		
C _c				☒	A-7-6 (7)		
C _u				▲	A-4 (0)		

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC



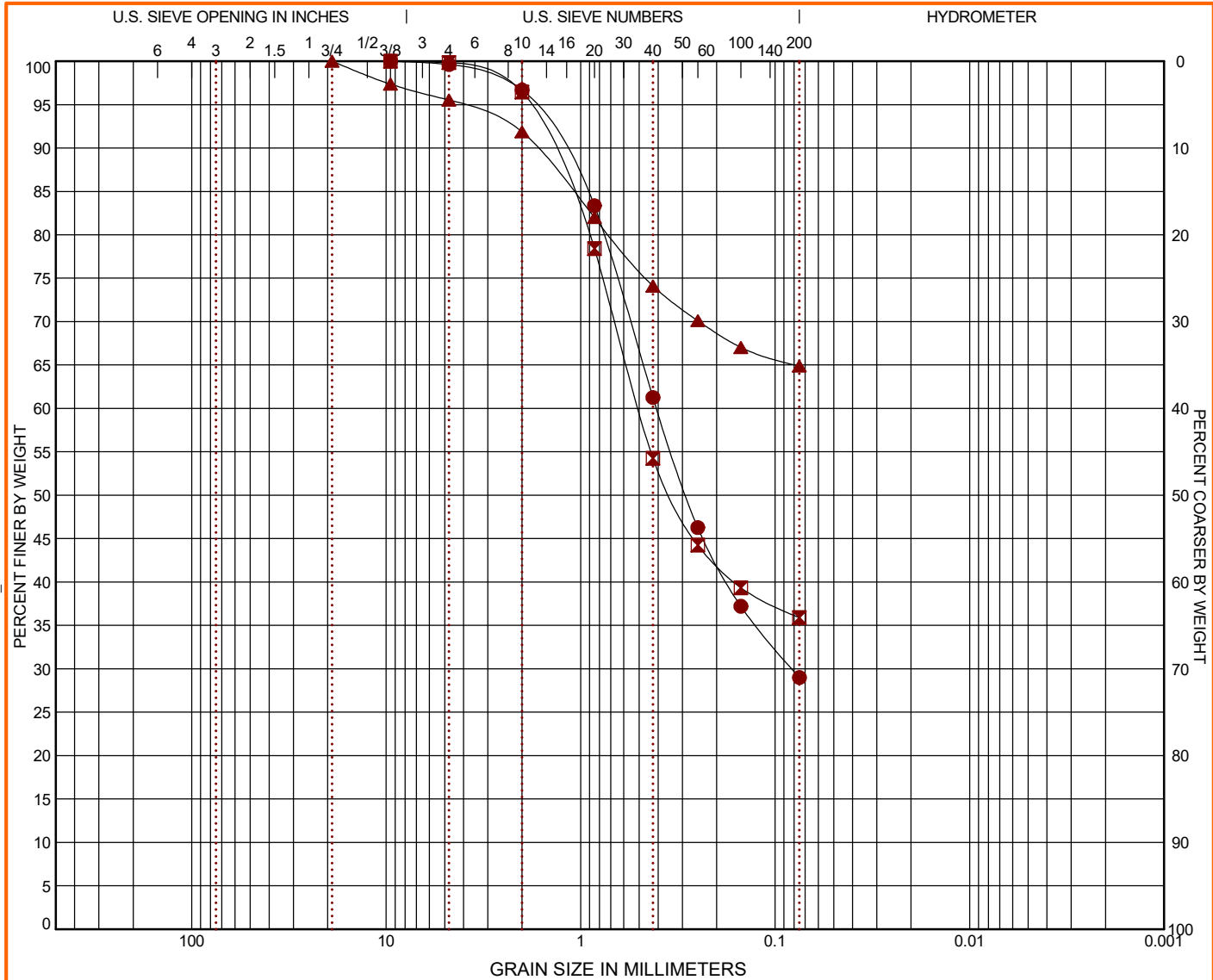
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Charleston, SC

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-030	4 - 6	0.0	0.4	70.6		29.0		SC-SM
☒ G-031	6 - 8	0.0	0.2	63.9		35.9		SC
▲ G-096	2 - 4	0.0	4.5	30.7		64.9		ML

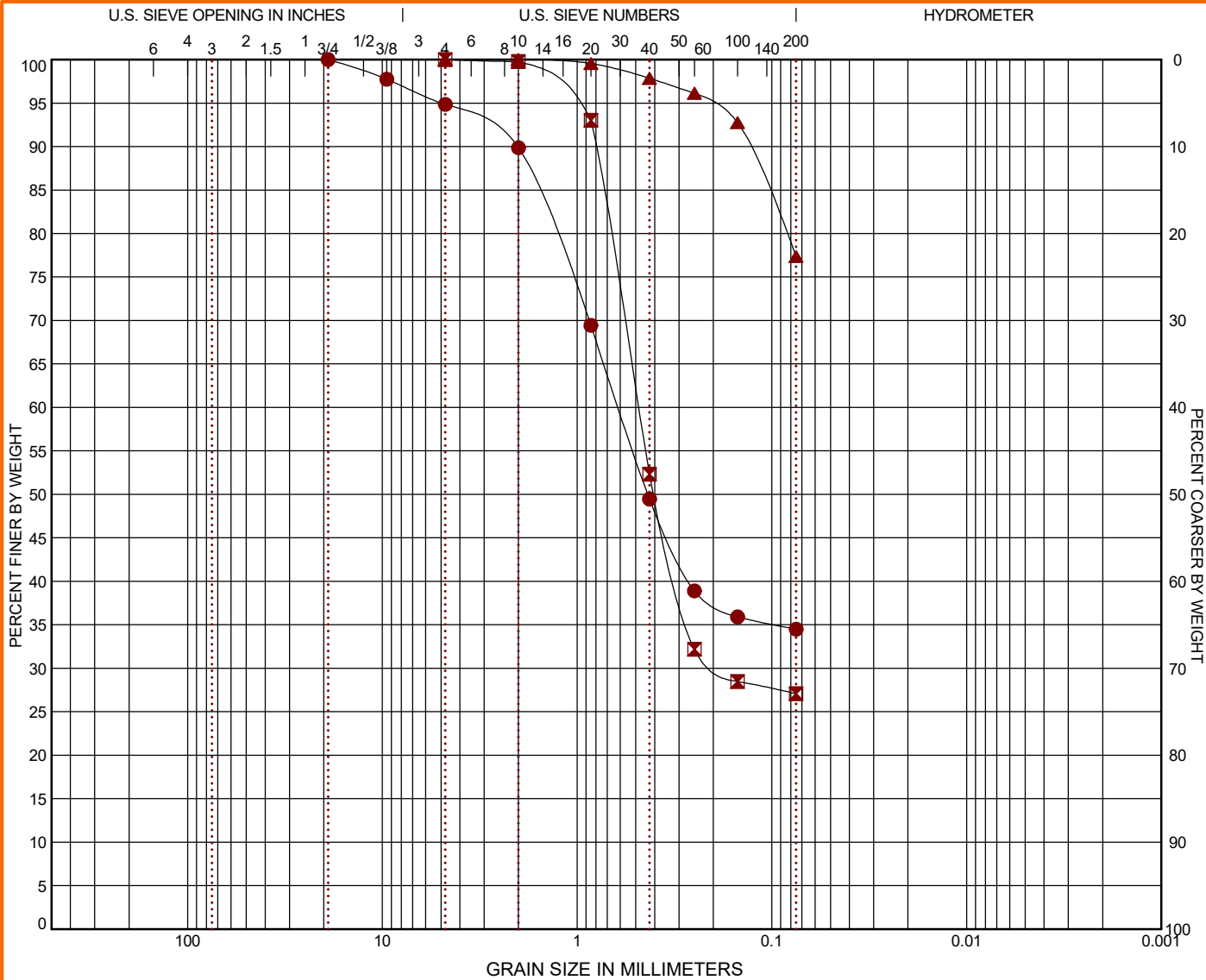
GRAIN SIZE				SOIL DESCRIPTION			
	●	☒	▲	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.406	0.501		3/8"	100.0	3/8"	100.0
D ₃₀	0.082			#4	99.62	#4	99.83
D ₁₀				#10	96.67	#10	96.45
				#20	83.36	#20	78.43
				#40	61.26	#40	54.26
				#60	46.28	#60	44.24
				#100	37.21	#100	39.34
				#200	29.0	#200	35.89
						#100	67.02
						#200	64.88
COEFFICIENTS				REMARKS			
C _c	●	☒	▲	●	A-2-4 (0)		
C _u				☒	A-6 (2)		
				▲	A-4 (0)		

PROJECT: Carolina Crossroads Phase 2	<p>521 Clemson Rd Columbia, SC</p>	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-125	8 - 10	0.0	5.2	60.4		34.5		SC
☒ G-125	19.6 - 21.1	0.0	0.0	72.9		27.1		SC
▲ G-125	34.6 - 36.1	0.0	0.0	22.6		77.4		ML

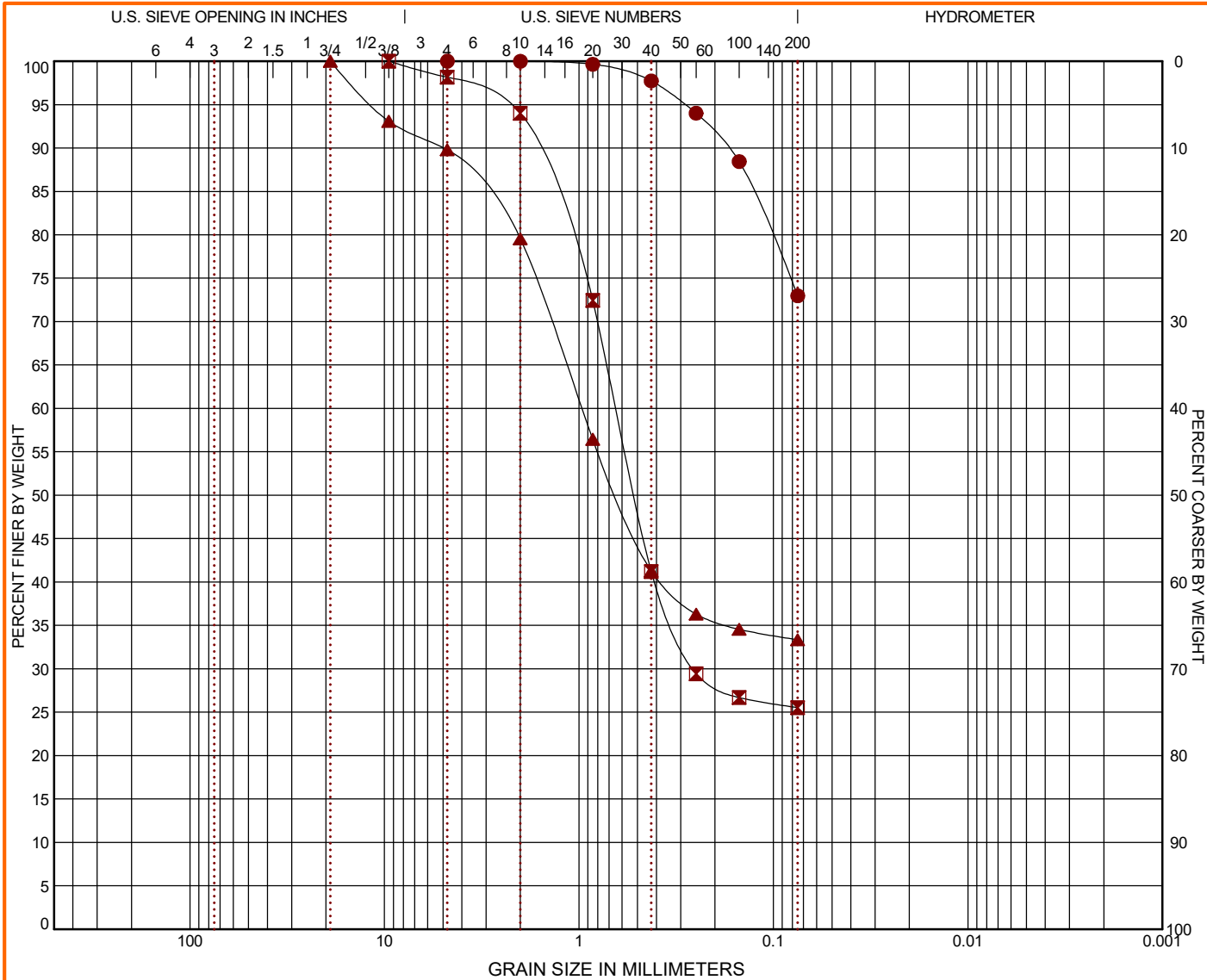
GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.613	0.484		3/4"	100.0	#4	100.0	#4	100.0
D ₃₀		0.185		3/8"	97.74	#10	99.79	#10	99.99
D ₁₀				#4	94.85	#20	93.0	#20	99.55
				#10	89.85	#40	52.33	#40	97.85
				#20	69.43	#60	32.2	#60	96.12
				#40	49.46	#100	28.48	#100	92.75
				#60	38.9	#200	27.07	#200	77.35
				#100	35.9				
				#200	34.49				
COEFFICIENTS				REMARKS					
C _c	●	☒	▲						
C _u									

PROJECT: Carolina Crossroads Phase 2	<p>521 Clemson Rd Columbia, SC</p>	PROJECT NUMBER: 73225031
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-125	54.6 - 56.1	0.0	0.0	27.0		73.0		ML
☒ G-127	6 - 8	0.0	1.8	72.6		25.5		SC
▲ G-127	14.6 - 16.1	0.0	10.2	56.4		33.3		SC

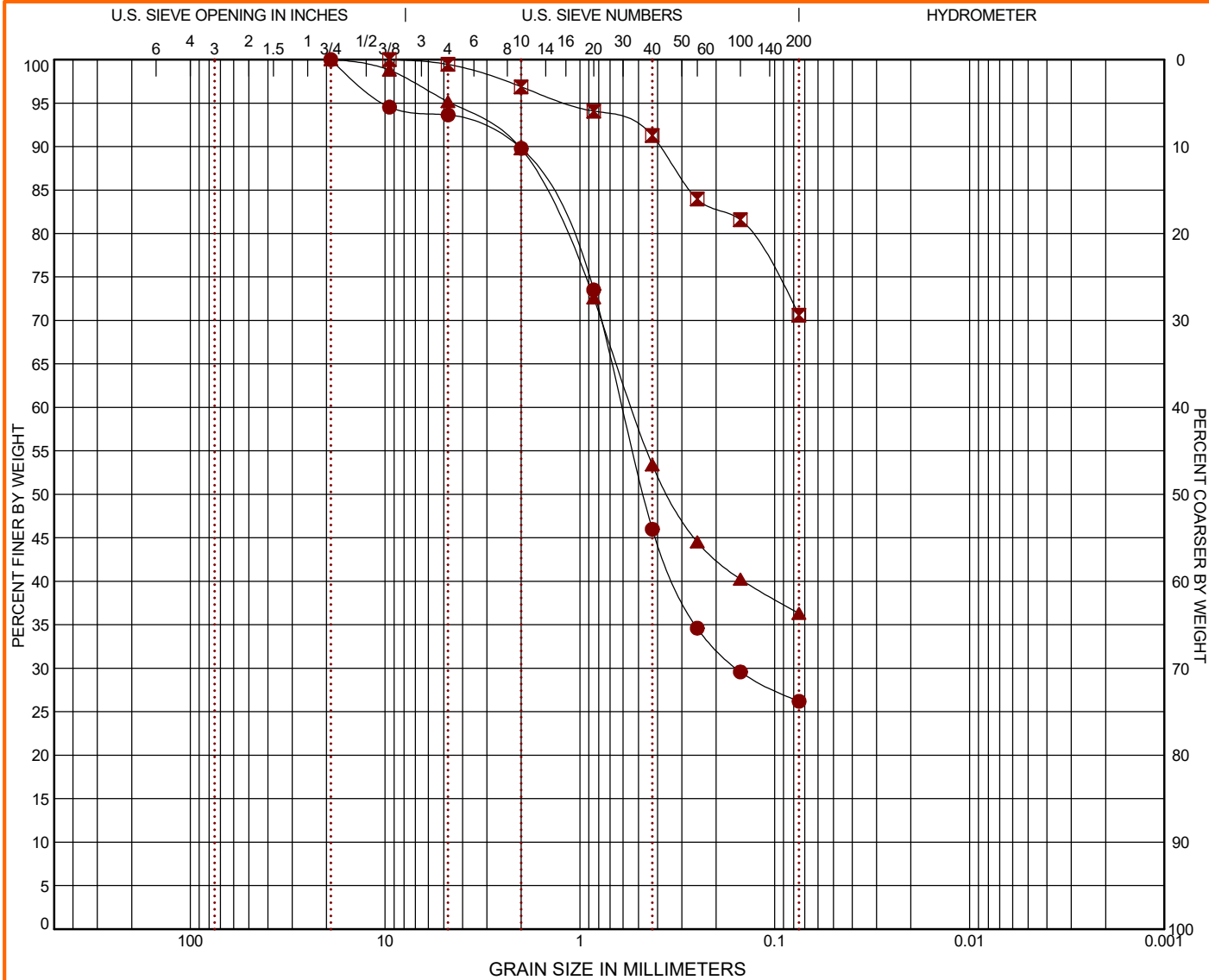
GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀		0.645	0.97	#4	100.0	3/8"	100.0	3/4"	100.0
D ₃₀		0.256		#10	99.99	#4	98.16	3/8"	93.07
D ₁₀				#20	99.64	#10	94.0	#4	89.79
				#40	97.73	#20	72.45	#10	79.53
				#60	94.01	#40	41.2	#20	56.44
				#100	88.44	#60	29.44	#40	41.26
				#200	72.97	#100	26.68	#60	36.31
						#200	25.53	#100	34.55
								#200	33.34
COEFFICIENTS				REMARKS					
	●	☒	▲						
C _c									
C _u									

PROJECT: Carolina Crossroads Phase 2	<p>521 Clemson Rd Columbia, SC</p>	PROJECT NUMBER: 73225031
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-127	24.6 - 26.1	0.0	6.4	67.4		26.2		SC
☒ G-127	39.6 - 41.1	0.0	0.6	28.8		70.6		MH
▲ G-126	4 - 6	0.0	4.8	58.8		36.3		SC

GRAIN SIZE				SOIL DESCRIPTION			
	●	☒	▲	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.605		0.539	3/4"	100.0	3/4"	100.0
D ₃₀	0.157			3/8"	94.54	3/8"	98.78
D ₁₀				#4	93.64	#4	95.16
				#10	89.78	#10	89.74
				#20	73.51	#20	72.6
				#40	45.99	#40	53.4
				#60	34.61	#60	44.53
				#100	29.58	#100	40.25
				#200	26.2	#200	36.32
COEFFICIENTS				REMARKS			
C _c	●	☒	▲	●	A-2-6 (0)		
C _u				☒	A-7-5 (20)		
				▲	A-7-6 (3)		

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

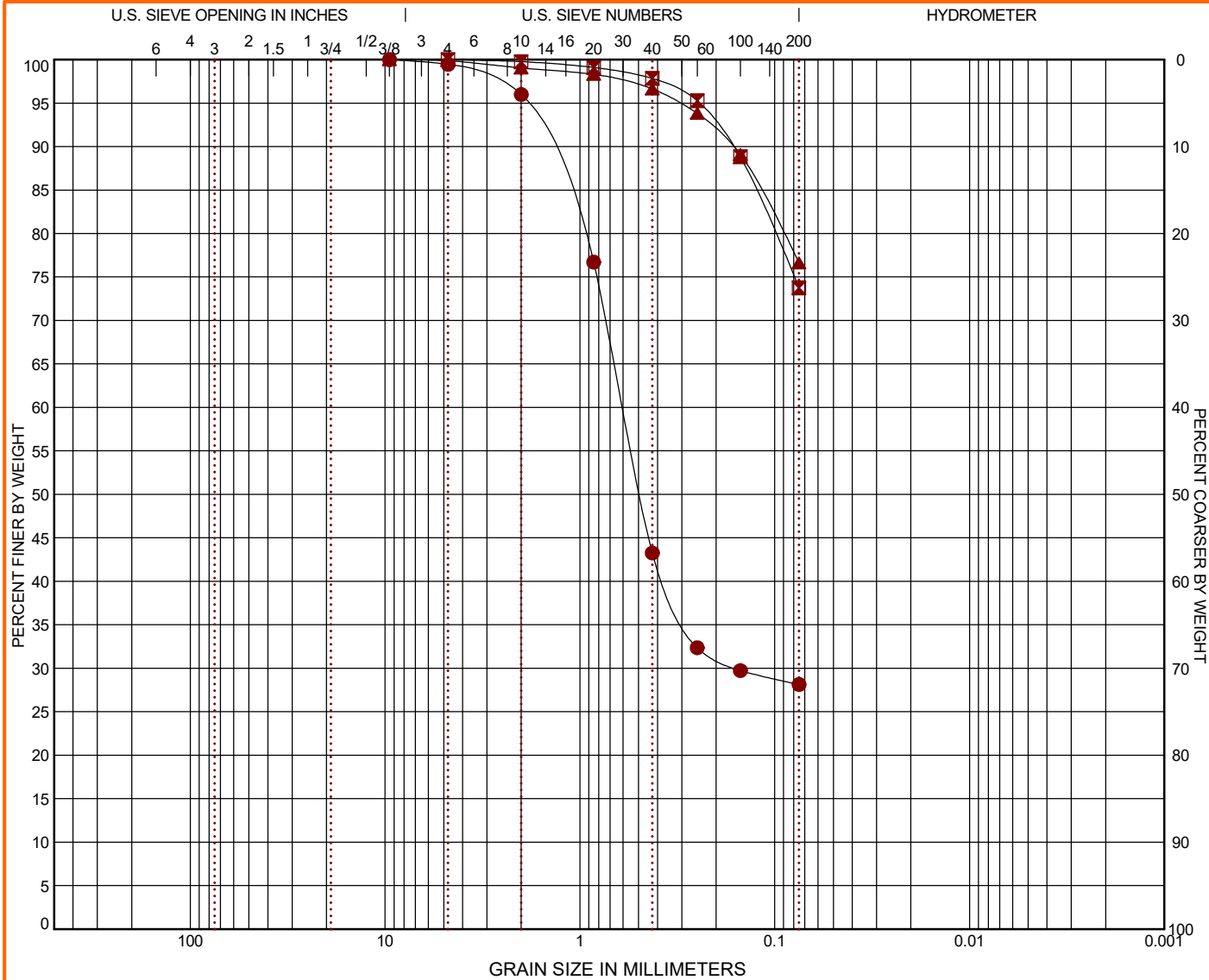
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: AASHTO DESC-1 73225031 CAROLINA CROSSROADS.GPJ TERRACON_DATATEMPLATE.GDT 4/20/22



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-126	15 - 16.5	0.0	0.5	71.3		28.1		
☒ G-126	35 - 36.5	0.0	0.0	26.3		73.7		MH
▲ G-126	55.1 - 56.6	0.0	0.1	23.2		76.6		MH

GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.601			3/8"	100.0	#4	100.0	3/8"	100.0
D ₃₀	0.158			#4	99.45	#10	99.76	#4	99.87
D ₁₀				#10	95.99	#20	99.09	#10	99.03
				#20	76.71	#40	97.84	#20	98.3
				#40	43.26	#60	95.27	#40	96.63
				#60	32.36	#100	88.81	#60	93.82
				#100	29.73	#200	73.75	#100	89.07
				#200	28.14			#200	76.62
COEFFICIENTS				REMARKS					
C _c	●	☒	▲						
C _u									

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

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Columbia, SC

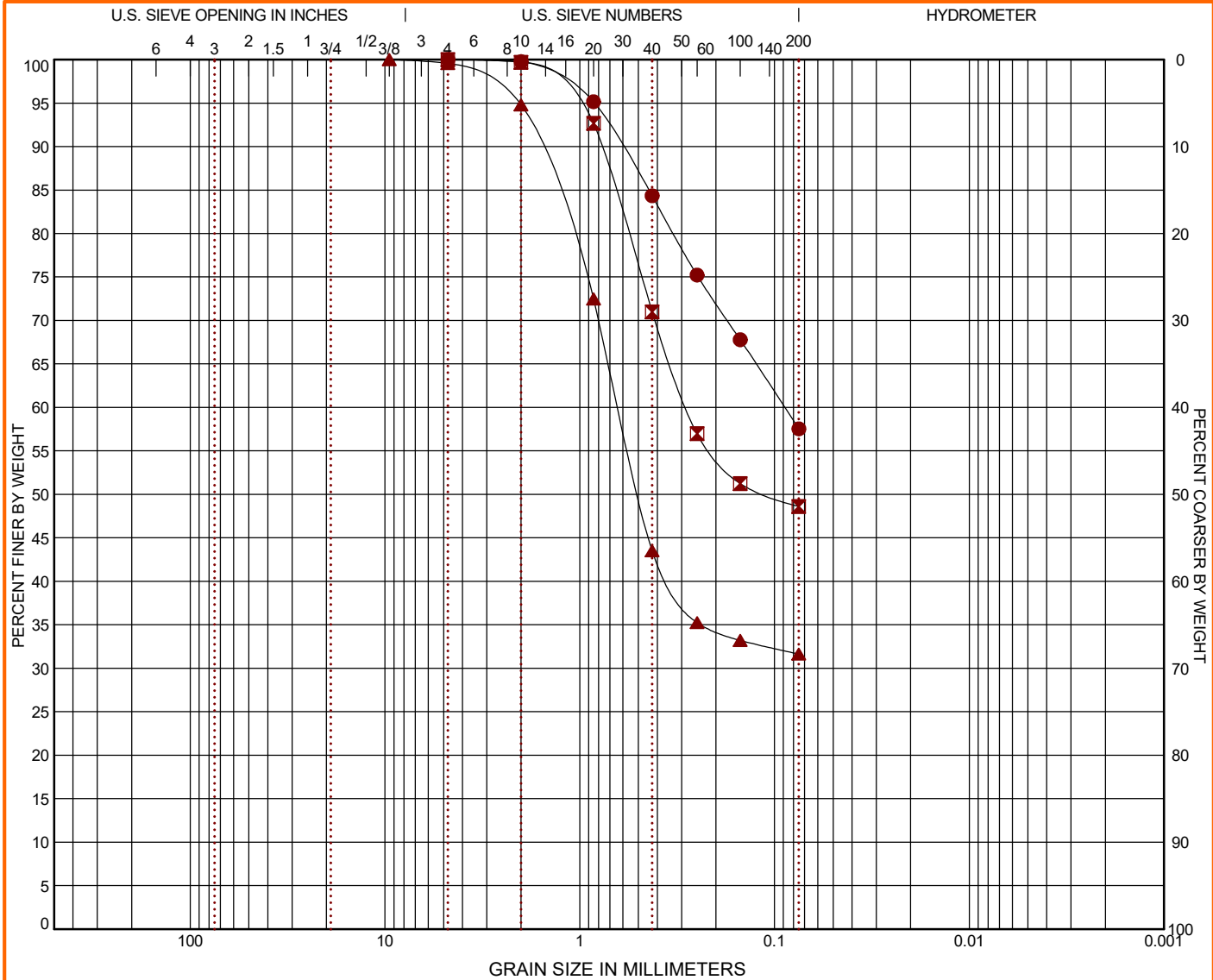
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Charleston, SC

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

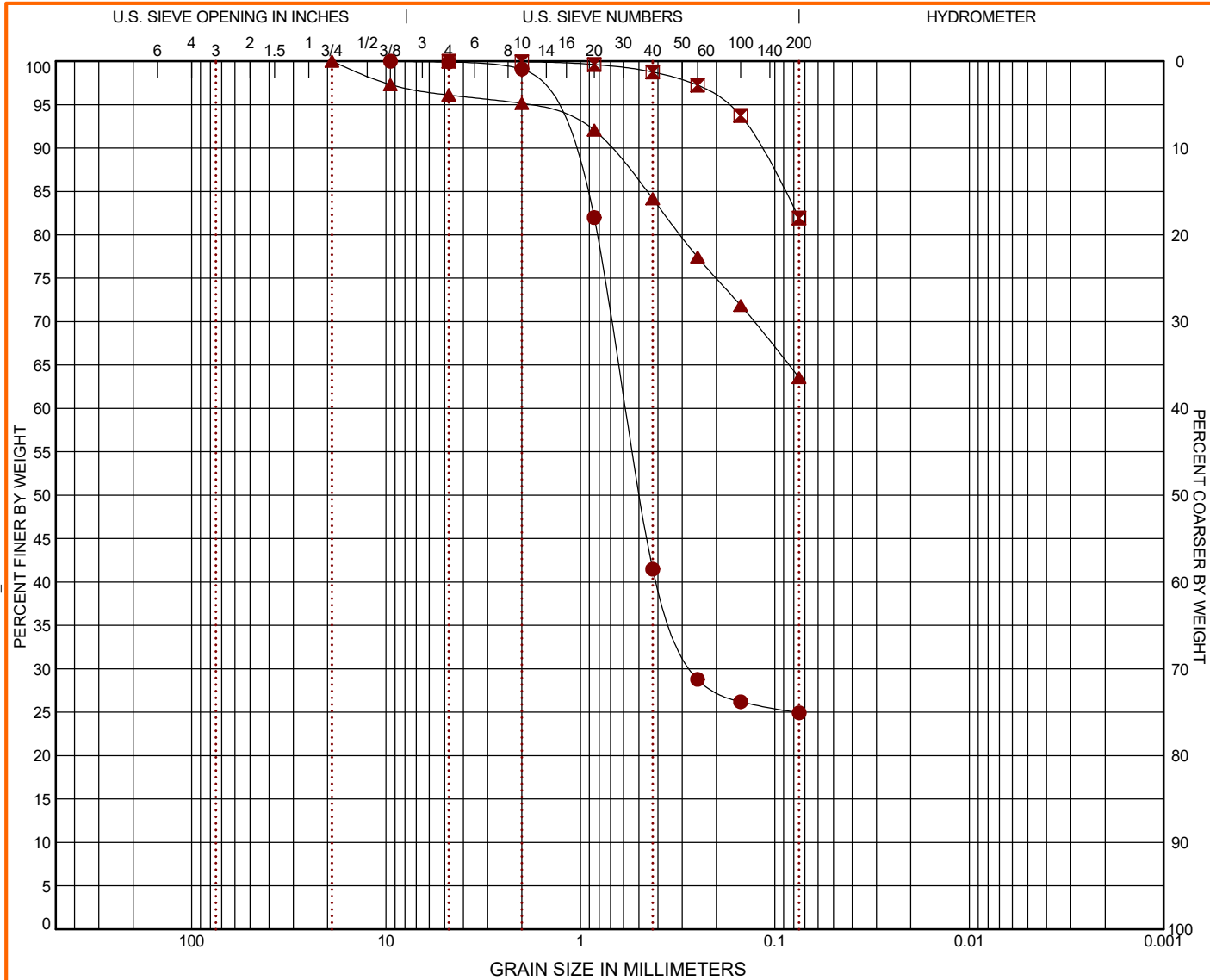
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GRAIN SIZE DISTRIBUTION

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-118	29.5 - 31	0.0	0.1	75.0		24.9		SM
☒ G-118	49.5 - 51	0.0	0.0	18.1		81.9		ML
▲ G-121	6 - 8	0.0	3.9	32.6		63.5		ML

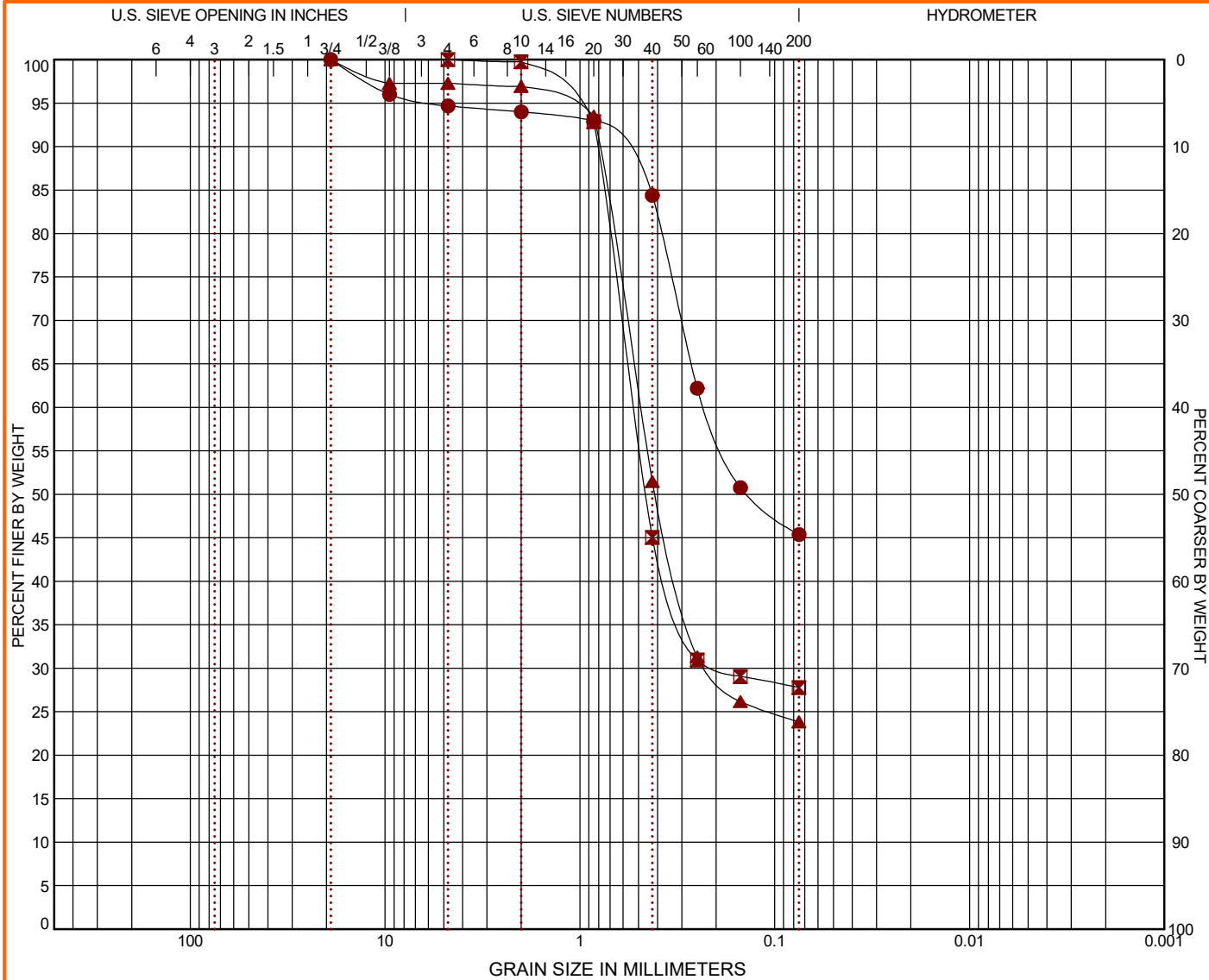
GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.583			3/8"	100.0	#4	100.0	3/4"	100.0
D ₃₀	0.263			#4	99.91	#10	99.93	3/8"	97.3
D ₁₀				#10	99.11	#20	99.62	#4	96.1
				#20	81.99	#40	98.75	#10	95.15
				#40	41.48	#60	97.24	#20	92.06
				#60	28.79	#100	93.73	#40	84.17
				#100	26.2	#200	81.92	#60	77.44
				#200	24.93			#100	71.86
								#200	63.54
COEFFICIENTS				REMARKS					
	●	☒	▲						
C _c									
C _u									

PROJECT: Carolina Crossroads Phase 2	<p>521 Clemson Rd Columbia, SC</p>	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-121	19 - 20.5	0.0	5.3	49.3		45.4		SC
☒ G-121	34 - 35.5	0.0	0.0	72.2		27.8		SM
▲ G-121	49 - 50.5	0.0	2.7	73.4		23.8		SC

GRAIN SIZE				SOIL DESCRIPTION					
	●	☒	▲	Sieve	% Finer	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.227	0.528	0.489	3/4"	100.0	#4	100.0	3/4"	100.0
D ₃₀		0.193	0.219	3/8"	96.0	#10	99.74	3/8"	97.28
D ₁₀				#4	94.67	#20	92.85	#4	97.28
				#10	93.99	#40	45.03	#10	96.91
				#20	92.99	#60	30.96	#20	93.5
				#40	84.38	#100	29.06	#40	51.47
				#60	62.19	#200	27.78	#60	31.32
				#100	50.77			#100	26.18
				#200	45.38			#200	23.83
COEFFICIENTS				REMARKS					
	●	☒	▲						
C _c									
C _u									
				●	A-7-6 (8)				
				☒	A-2-7 (1)				
				▲	A-2-6 (0)				

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
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Columbia, SC

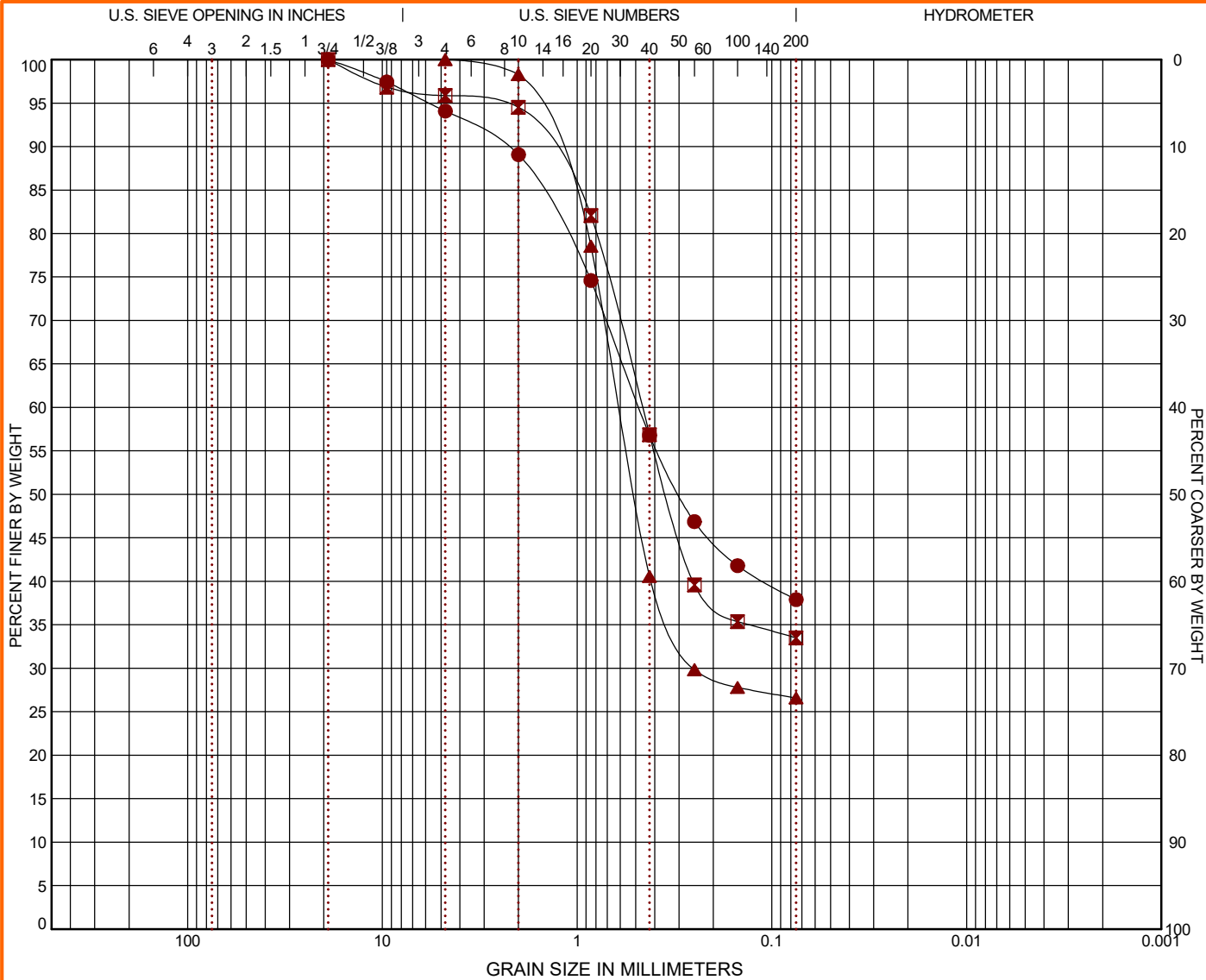
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Charleston, SC

GRAIN SIZE DISTRIBUTION

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COBBLES	GRAVEL		SAND			SILT OR CLAY		
	coarse	fine	coarse	medium	fine			

BORING ID	DEPTH	% COBBLES	% GRAVEL	% SAND	% SILT	% FINES	% CLAY	USCS
● G-122	4 - 6	0.0	5.9	56.2		37.9		SC
☒ G-122	18.9 - 20.4	0.0	4.1	62.4		33.5		SC
▲ G-122	28.9 - 30.4	0.0	0.0	73.4		26.6		SM

GRAIN SIZE				SOIL DESCRIPTION			
	●	☒	▲	Sieve	% Finer	Sieve	% Finer
D ₆₀	0.482	0.463	0.606	3/4"	100.0	3/4"	100.0
D ₃₀			0.252	3/8"	97.42	3/8"	96.83
D ₁₀				#4	94.07	#4	95.86
				#10	89.06	#10	94.52
				#20	74.59	#20	82.06
				#40	56.79	#40	56.86
				#60	46.86	#60	39.6
				#100	41.8	#100	35.37
				#200	37.9	#200	33.5
COEFFICIENTS				REMARKS			
	●	☒	▲				
C _c							
C _u							
				●	A-7-6 (5)		
				☒	A-2-7 (5)		
				▲	A-2-7 (1)		

PROJECT: Carolina Crossroads Phase 2

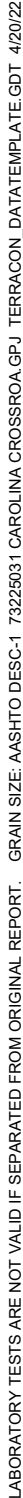
SITE: Richland and Lexington Counties, SC



PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
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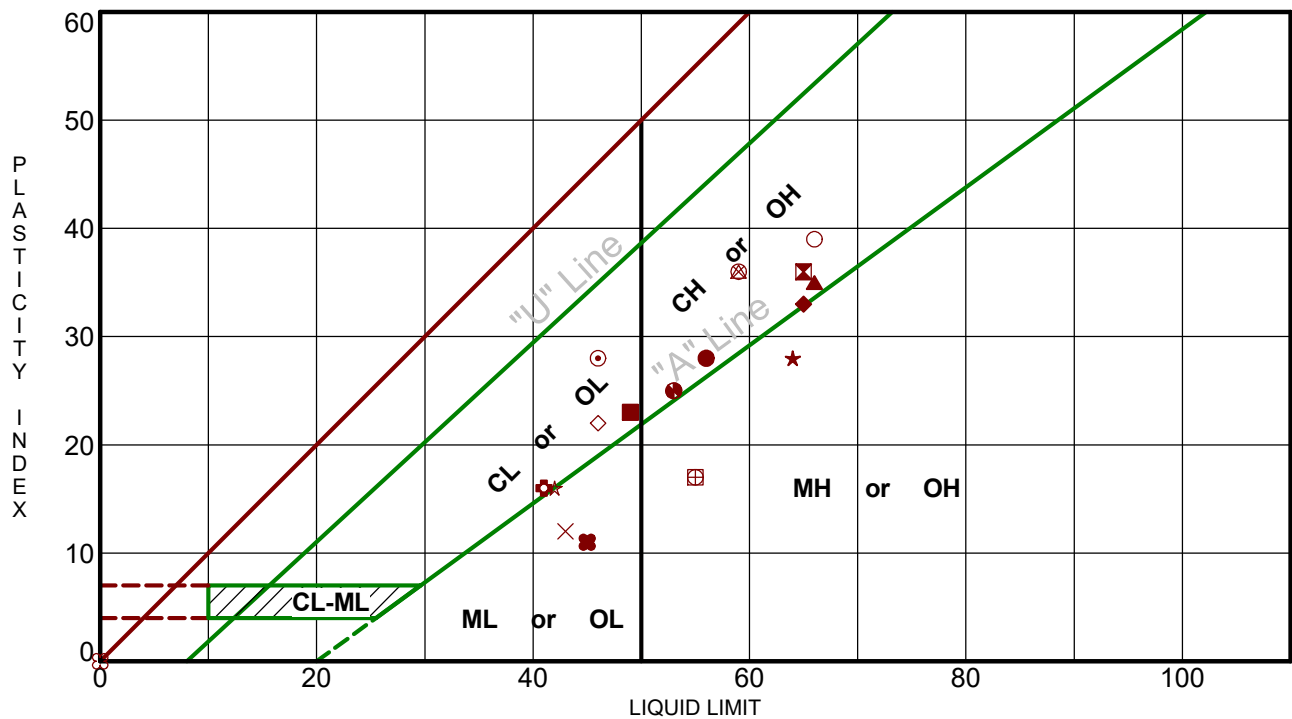
ASTM D422 / ASTM C136

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PROJECT: Carolina Crossroads Phase 2	 521 Clemson Rd Columbia, SC	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC

ATTERBERG LIMITS RESULTS

ASTM D4318



Boring ID	Depth	LL	PL	PI	Fines	AASHTO	Description
● G-022 Bulk	0 - 5	56	28	28	43.0	A-7-6 (7)	CLAYEY SAND (SC)
⊠ G-044 Bulk	0 - 10	65	29	36	52.4	A-7-6 (15)	SANDY FAT CLAY (CH)
▲ G-048 Bulk	0 - 5	66	31	35	72.1	A-7-5 (26)	FAT CLAY with SAND (CH)
★ G-026 Bulk	0 - 15	64	36	28	79.7	A-7-5 (26)	ELASTIC SILT with SAND (MH)
⊙ G-023 Bulk	0 - 15	46	18	28	35.8	A-7-6 (4)	CLAYEY SAND (SC)
⊕ G-104 Bulk	0 - 10	41	25	16	54.7	A-7-6 (7)	SANDY LEAN CLAY (CL)
○ G-024 Bulk	0 - 15	66	27	39	50.3	A-7-6 (15)	SANDY FAT CLAY (CH)
△ G-129A	20 - 22	59	23	36	31.1	A-2-7 (4)	CLAYEY SAND (SC)
⊗ G-129A	22 - 24	59	23	36	31.1	A-2-7 (4)	CLAYEY SAND (SC)
⊕ G-138A	22 - 24	55	38	17	81.4	A-7-5 (17)	ELASTIC SILT with SAND (MH)
□ G-138A	24 - 26	55	38	17	81.4	A-7-5 (17)	ELASTIC SILT with SAND (MH)
⊕ G-069A	6 - 8	53	28	25	51.1	A-7-6 (10)	SANDY FAT CLAY (CH)
⊕ G-069A	8 - 10	53	28	25	51.1	A-7-6 (10)	SANDY FAT CLAY (CH)
★ G-130	19.1 - 20.6	42	26	16	28.3	A-2-7 (1)	SILTY SAND (SM)
⊗ G-130	29.1 - 30.6	NP	NP	NP	26.6	A-2-4 (0)	SILTY SAND (SM)
■ G-130	44.1 - 45.6	49	26	23	82.3	A-7-6 (20)	LEAN CLAY with SAND (CL)
◆ G-131	8 - 10	65	32	33	42.6	A-7-5 (9)	CLAYEY SAND (SC)
◇ G-131	19.2 - 20.7	46	24	22	30.5	A-2-7 (2)	CLAYEY SAND (SC)
× G-131	34.2 - 35.7	43	31	12	27.2	A-2-7 (0)	SILTY SAND (SM)
⊕ G-131	54.2 - 55.7	45	34	11	58.1	A-7-5 (6)	SANDY SILT (ML)

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

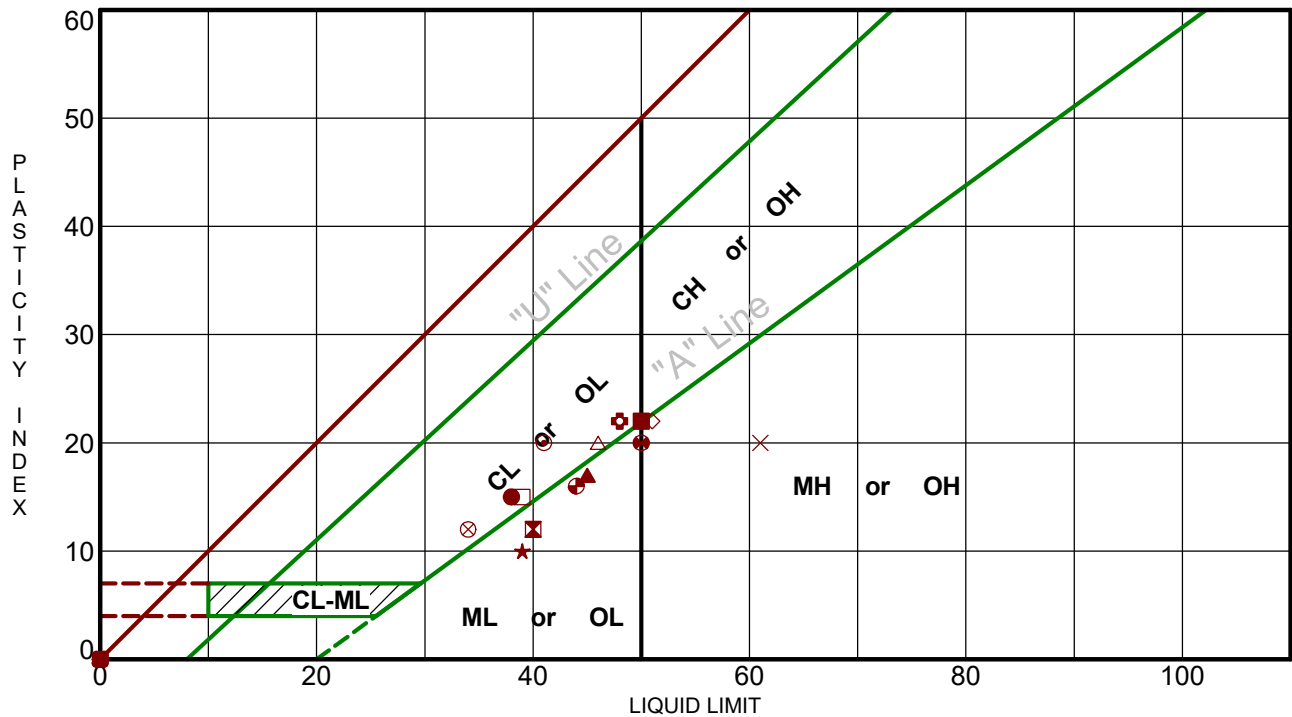
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

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ATTERBERG LIMITS RESULTS

ASTM D4318



Boring ID	Depth	LL	PL	PI	Fines	AASHTO	Description
● G-131	74.2 - 75.7	38	23	15	67.9	A-6 (9)	SANDY LEAN CLAY (CL)
⊠ G-128	29.2 - 30.7	40	28	12	25.5	A-2-6 (0)	SILTY SAND (SM)
▲ G-128	44.2 - 45.7	45	28	17	80.9	A-7-6 (15)	SILT with SAND (ML)
★ G-128	59.2 - 60.7	39	29	10	76.0	A-4 (8)	SILT with SAND (ML)
⊙ G-129	4 - 6	41	21	20	45.2	A-7-6 (5)	CLAYEY SAND (SC)
⊕ G-129	19.2 - 20.7	48	26	22	31.9	A-2-7 (2)	CLAYEY SAND (SC)
○ G-129	29.2 - 30.7	NP	NP	NP	27.3	A-2-4 (0)	SILTY SAND (SM)
△ G-129	44.2 - 45.7	46	26	20	69.3	A-7-6 (13)	SANDY LEAN CLAY (CL)
⊗ G-140	4 - 6	34	22	12	28.7	A-2-6 (0)	CLAYEY SAND (SC)
⊕ G-140	18.1 - 19.6	NP	NP	NP	27.9	A-2-4 (0)	SILTY SAND (SM)
□ G-140	23.1 - 24.6	39	24	15	20.3	A-2-6 (0)	CLAYEY SAND (SC)
⊕ G-140	38.1 - 39.6	50	30	20	61.5	A-7-5 (11)	SANDY ELASTIC SILT (MH)
⊕ G-033	6 - 8	44	28	16	33.0	A-2-7 (1)	SILTY SAND (SM)
★ G-033	18.6 - 20.1	NP	NP	NP	86.2	A-4 (0)	SILT (ML)
⊗ G-033	33.6 - 35.1	NP	NP	NP	92.4	A-4 (0)	SILT (ML)
■ G-139	8 - 10	50	28	22	33.2	A-2-7 (2)	CLAYEY SAND (SC)
◆ G-139	38 - 39.5	NP	NP	NP	86.7	A-4 (0)	SILT (ML)
◇ G-138	6 - 8	51	29	22	32.2	A-2-7 (2)	SILTY SAND (SM)
× G-138	24.2 - 25.7	61	41	20	85.8	A-7-5 (23)	ELASTIC SILT (MH)
⊗ G-138	34.2 - 35.7	NP	NP	NP	66.3	A-4 (0)	SANDY SILT (ML)

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

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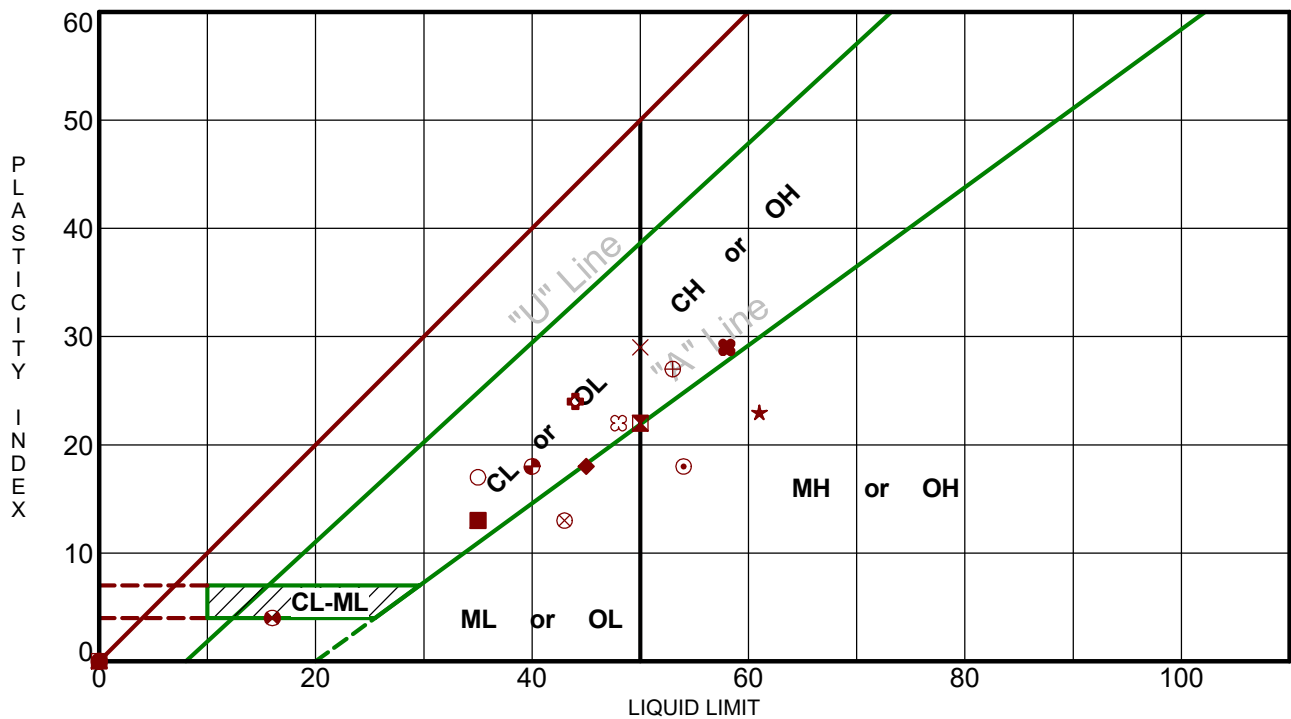
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ATTERBERG LIMITS RESULTS

ASTM D4318



Boring ID	Depth	LL	PL	PI	Fines	AASHTO	Description
● G-138	49.2 - 50.7	NP	NP	NP	71.1	A-4 (0)	SILT with SAND (ML)
⊠ G-136	8 - 10	50	28	22	32.8	A-2-7 (2)	CLAYEY SAND (SC)
▲ G-136	23.4 - 24.9	NP	NP	NP	69.2	A-4 (0)	SANDY SILT (ML)
★ G-136	38.4 - 39.9	61	38	23	67.8	A-7-5 (17)	SANDY ELASTIC SILT (MH)
⊙ G-136	48.4 - 49.9	54	36	18	73.4	A-7-5 (15)	ELASTIC SILT with SAND (MH)
⊕ G-088	2 - 4	44	20	24	52.1	A-7-6 (9)	SANDY LEAN CLAY (CL)
○ G-102	6 - 8	35	18	17	42.7	A-6 (3)	CLAYEY SAND (SC)
△ G-102	18.5 - 20	NP	NP	NP	63.3	A-4 (0)	SANDY SILT (ML)
⊗ G-102	33.5 - 35	43	30	13	64.4	A-7-5 (8)	SANDY SILT (ML)
⊕ G-028	6 - 8	53	26	27	43.9	A-7-6 (7)	CLAYEY SAND (SC)
□ G-029	2 - 4	NP	NP	NP	69.5	A-4 (0)	SANDY SILT (ML)
⊕ G-030	4 - 6	16	12	4	29.0	A-2-4 (0)	SILTY, CLAYEY SAND (SC-SM)
⊕ G-031	6 - 8	40	22	18	35.9	A-6 (2)	CLAYEY SAND (SC)
★ G-096	2 - 4	NP	NP	NP	64.9	A-4 (0)	SANDY SILT (ML)
⊗ G-125	8 - 10	48	26	22	34.5	A-2-7 (2)	CLAYEY SAND (SC)
■ G-125	19.6 - 21.1	35	22	13	27.1	A-2-6 (0)	CLAYEY SAND (SC)
◆ G-125	34.6 - 36.1	45	27	18	77.4	A-7-6 (14)	SILT with SAND (ML)
◇ G-125	54.6 - 56.1	NP	NP	NP	73.0	A-4 (0)	SILT with SAND (ML)
× G-127	6 - 8	50	21	29	25.5	A-2-7 (2)	CLAYEY SAND (SC)
⊕ G-127	14.6 - 16.1	58	29	29	33.3	A-2-7 (3)	CLAYEY SAND (SC)

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

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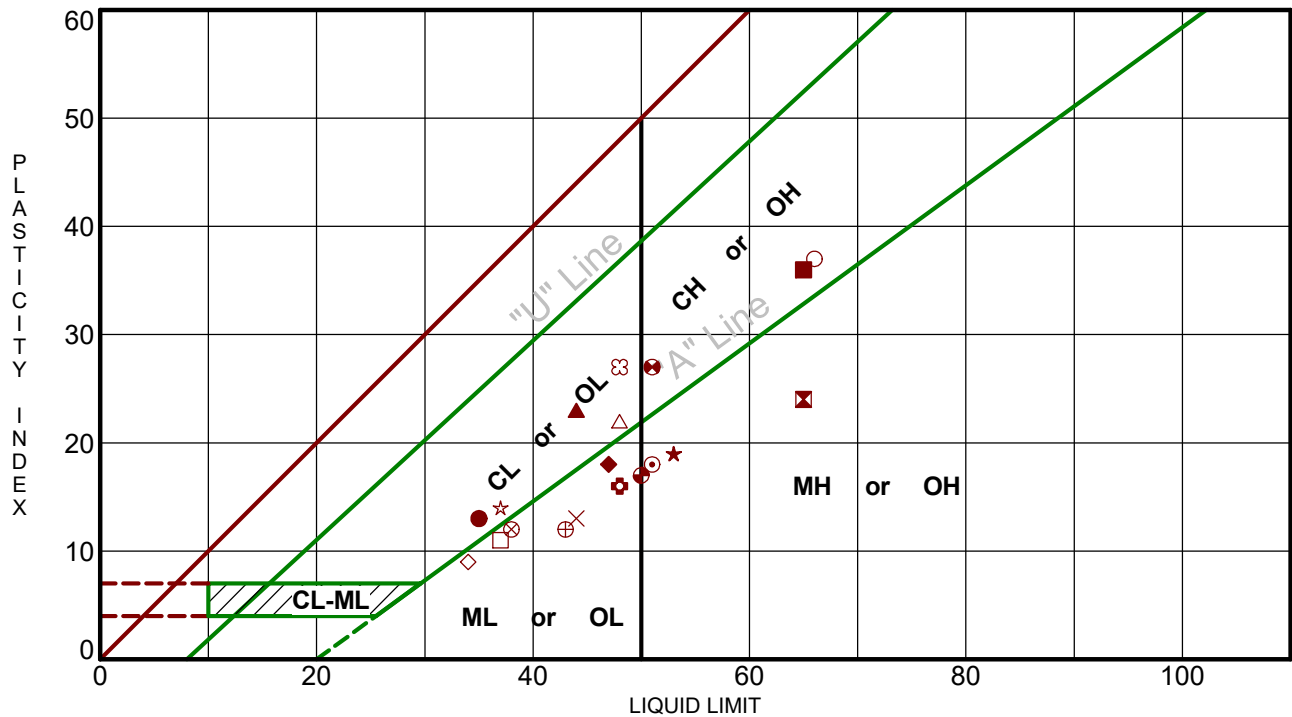
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ATTERBERG LIMITS RESULTS

ASTM D4318



Boring ID	Depth	LL	PL	PI	Fines	AASHTO	Description
● G-127	24.6 - 26.1	35	22	13	26.2	A-2-6 (0)	CLAYEY SAND (SC)
⊠ G-127	39.6 - 41.1	65	41	24	70.6	A-7-5 (20)	ELASTIC SILT with SAND (MH)
▲ G-126	4 - 6	44	21	23	36.3	A-7-6 (3)	CLAYEY SAND (SC)
★ G-126	35 - 36.5	53	34	19	73.7	A-7-5 (16)	ELASTIC SILT with SAND (MH)
⊙ G-126	55.1 - 56.6	51	33	18	76.6	A-7-5 (16)	ELASTIC SILT with SAND (MH)
⊕ G-126	70.1 - 71.6	48	32	16	57.5	A-7-5 (8)	SANDY SILT (ML)
○ G-017	14.4 - 15.9	66	29	37	48.6	A-7-6 (14)	CLAYEY SAND (SC)
△ G-118	19.5 - 21	48	26	22	31.6	A-2-7 (2)	CLAYEY SAND (SC)
⊗ G-118	29.5 - 31	38	26	12	24.9	A-2-6 (0)	SILTY SAND (SM)
⊕ G-118	49.5 - 51	43	31	12	81.9	A-7-5 (11)	SILT with SAND (ML)
□ G-121	6 - 8	37	26	11	63.5	A-6 (6)	SANDY SILT (ML)
⊕ G-121	19 - 20.5	51	24	27	45.4	A-7-6 (8)	CLAYEY SAND (SC)
⊕ G-121	34 - 35.5	50	33	17	27.8	A-2-7 (1)	SILTY SAND (SM)
★ G-121	49 - 50.5	37	23	14	23.8	A-2-6 (0)	CLAYEY SAND (SC)
⊗ G-122	4 - 6	48	21	27	37.9	A-7-6 (5)	CLAYEY SAND (SC)
■ G-122	18.9 - 20.4	65	29	36	33.5	A-2-7 (5)	CLAYEY SAND (SC)
◆ G-122	28.9 - 30.4	47	29	18	26.6	A-2-7 (1)	SILTY SAND (SM)
◇ G-122	53.9 - 55.4	34	25	9	68.6	A-4 (5)	SANDY SILT (ML)
× G-122	58.9 - 60.4	44	31	13	73.8	A-7-5 (10)	SILT with SAND (ML)

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

PROJECT NUMBER: 73225031

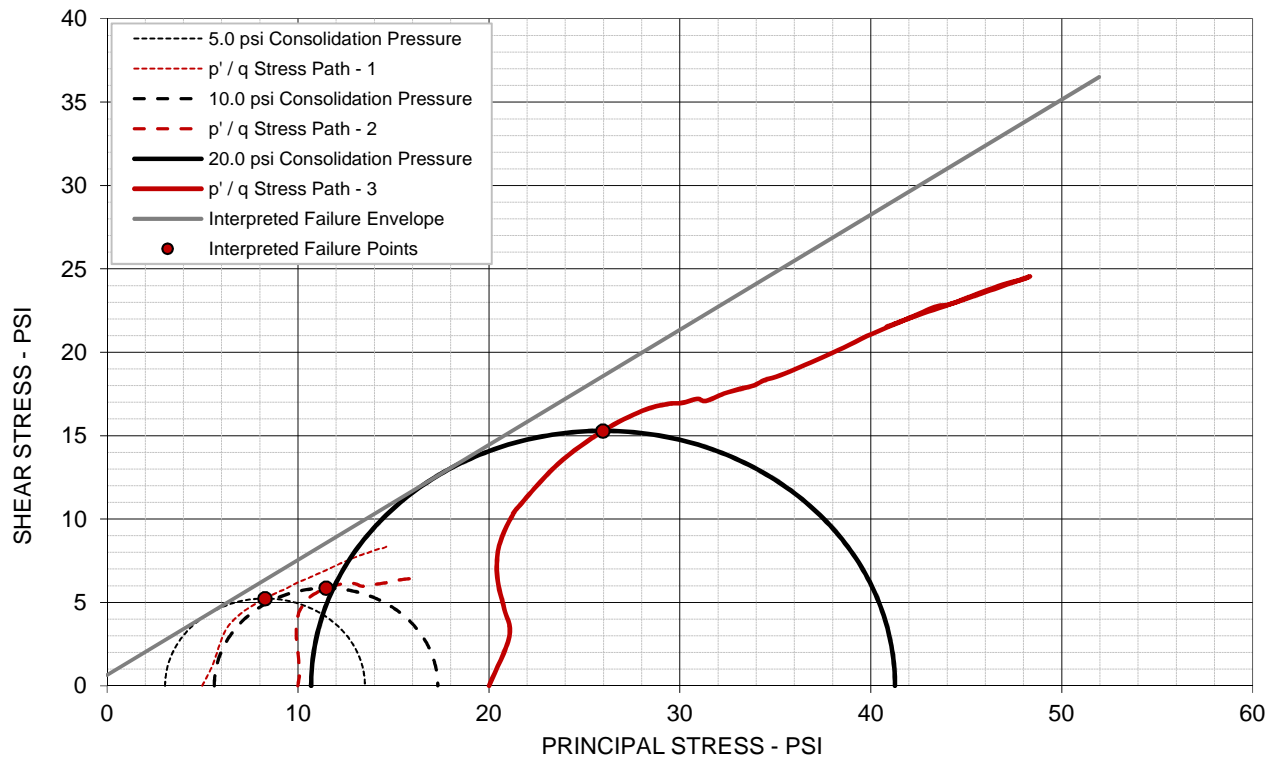
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Charleston, SC

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ICU TRIAXIAL COMPRESSION TEST

ASTM D4767 / AASHTO T297

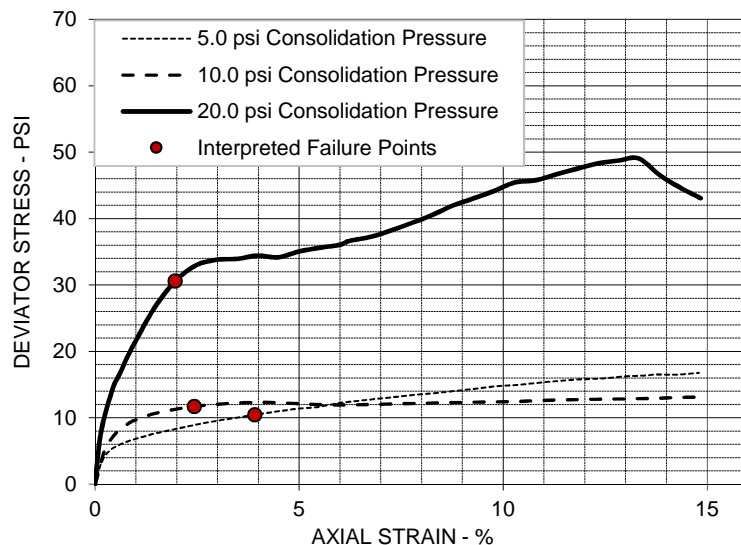
Failure Criteria: Max Obliquity (s1': s3')



EFFECTIVE STRESS PARAMETERS

$\phi' = 34.6$ deg

$c' = 0.6$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	24.1	24.1	24.1
Dry Density - pcf	93.7	100.0	107.8
Diameter - inches	2.86	2.86	2.89
Height - inches	5.86	5.97	5.95

AT TEST

Final Moisture - %	21.4	31.4	16.0
Dry Density - pcf	94.1	101.0	109.2
Calculated Diameter (in.)	2.81	2.85	2.87
Height - inches	5.73	5.93	5.89
Effect. Consol. Stress - psi	5.0	10.0	20.0
Failure Stress - psi	10.46	11.71	30.58
Total Pore Pressure - psi	52.0	54.4	59.3
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	3.9	2.4	2.0
σ_1' Failure - psi	13.50	17.32	41.27
σ_3' Failure - psi	3.04	5.62	10.69

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Undisturbed

DESCRIPTION: Sandy Fat Clay (CH) / A-7-6 (10)

SAMPLE ID: G-069 6.0-8.0' ST-1

SPECIFIC GRAVITY: 2.65

LL: 53 PL: 28 PI: 25 Percent -200: 51.1%

Remarks: 10 psi specimen was not used for failure interpretation

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

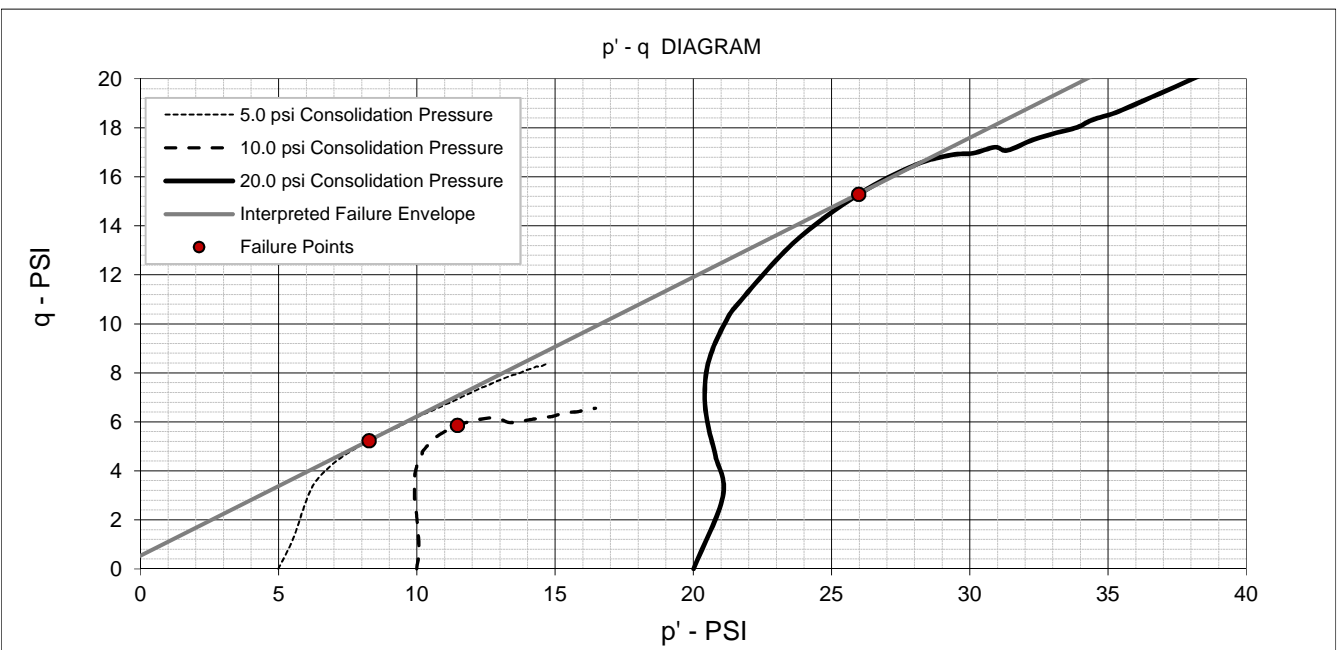
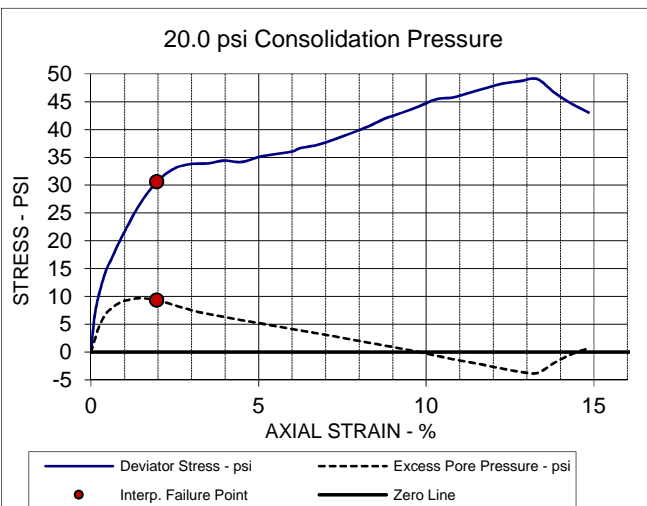
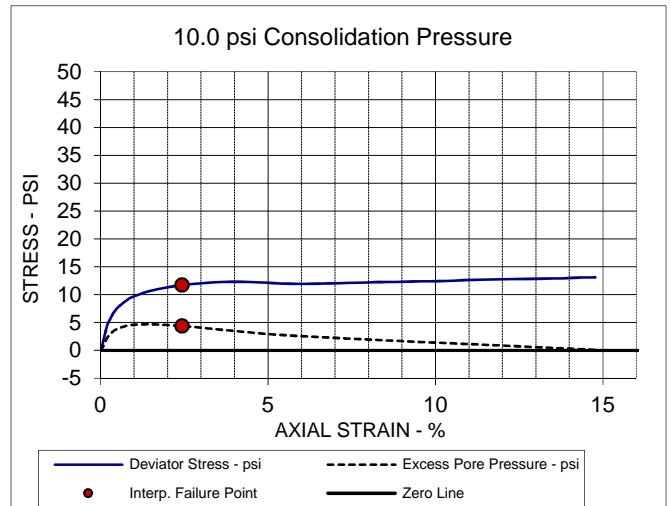
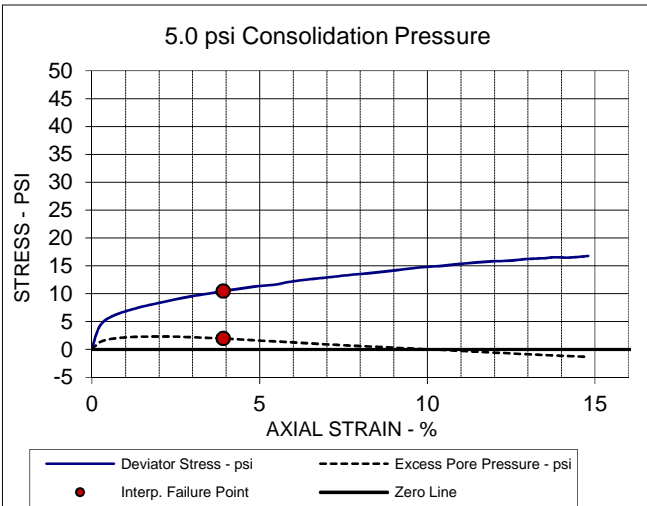
PROJECT #: 73225031


CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/25/22

521 Clemson Road
Columbia, SC

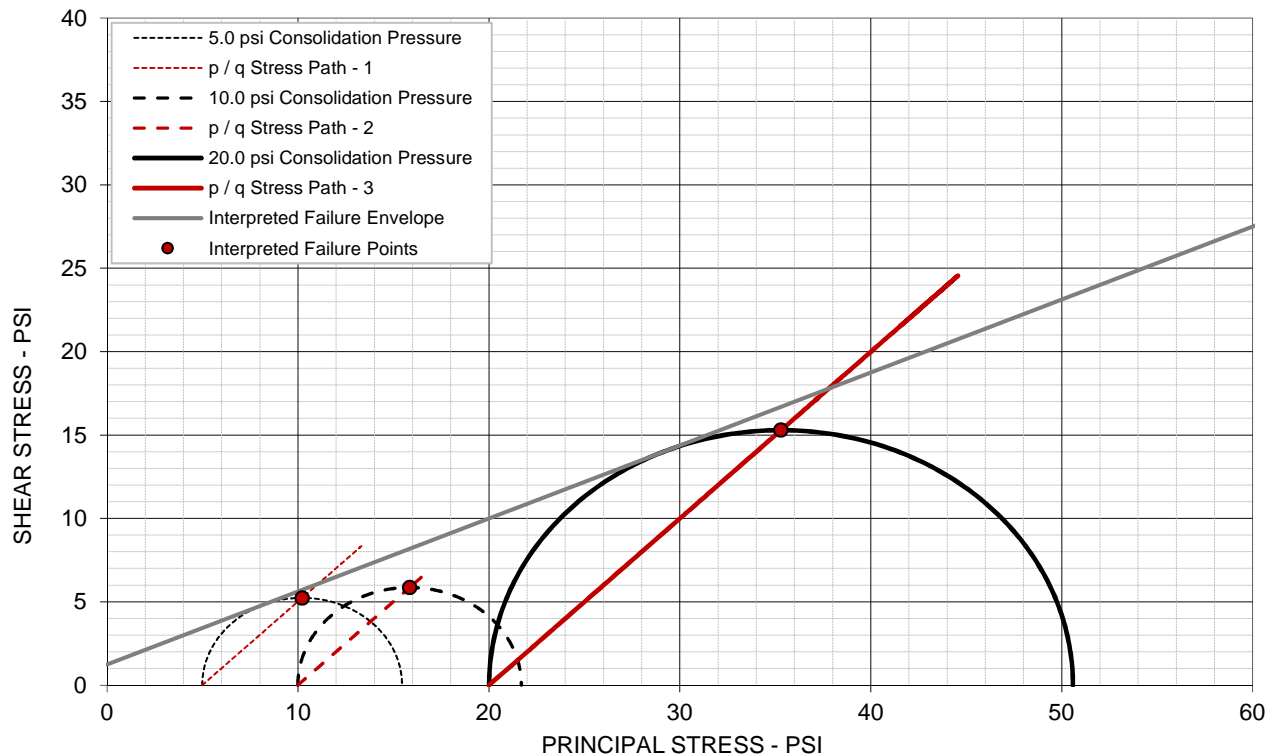




EFFECTIVE STRESS PARAMETERS		R ² = 1.00	α = 29.6 deg	a = 0.5 psi
PROJECT: Carolina Crossroads Phase 2			ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION TEST	
LOCATION: Richland and Lexington Counties, SC			CLIENT: Infrastructure Consulting & Engineering, PLLC	
SAMPLE ID: G-069 6.0-8.0' ST-1			<div>521 Clemson Road Columbia, SC</div> <div></div>	
DESCRIPTION: Sandy Fat Clay (CH) / A-7-6 (10)				

ICU TRIAXIAL COMPRESSION TEST ASTM D4767 / AASHTO T297

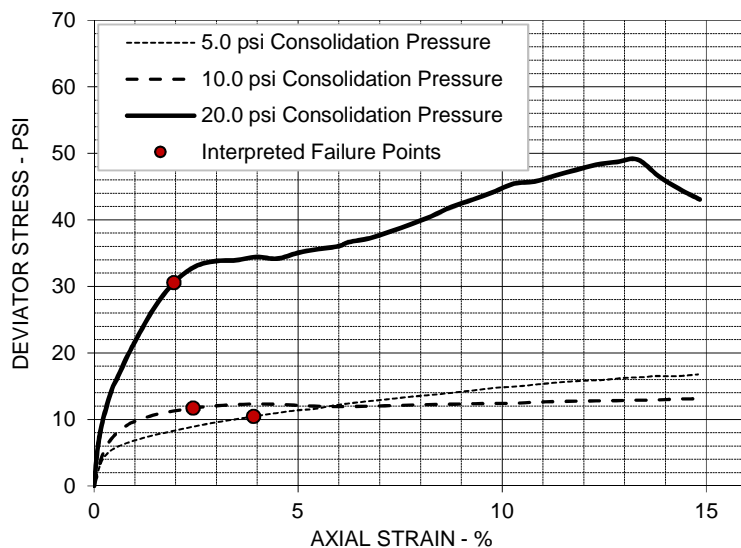
Failure Criteria: Max Obliquity (s1': s3')



TOTAL STRESS PARAMETERS

$\phi = 23.6 \text{ deg}$

$c = 1.2 \text{ psi}$



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	24.1	24.1	24.1
Dry Density - pcf	93.7	100.0	107.8
Diameter - inches	2.86	2.86	2.89
Height - inches	5.86	5.97	5.95

AT TEST

Final Moisture - %	21.4	31.4	16.0
Dry Density - pcf	94.1	101.0	109.2
Calculated Diameter (in.)	2.81	2.85	2.87
Height - inches	5.73	5.93	5.89
Effect. Consol. Stress - psi	5.0	10.0	20.0
Failure Stress - psi	10.46	11.71	30.58
Total Pore Pressure - psi	52.0	54.4	59.3
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	3.9	2.4	2.0
σ_1 Failure - psi	15.45	21.70	50.58
σ_3 Failure - psi	4.99	9.99	20.01

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION
 SAMPLE TYPE: Undisturbed
 DESCRIPTION: Sandy Fat Clay (CH) / A-7-6 (10)
 SAMPLE ID: G-069 6.0-8.0' ST-1
 SPECIFIC GRAVITY: 2.65
 LL: 53 PL: 28 PI: 25 Percent -200: 51.1%
 Remarks: 10 psi specimen was not used for failure interpretation

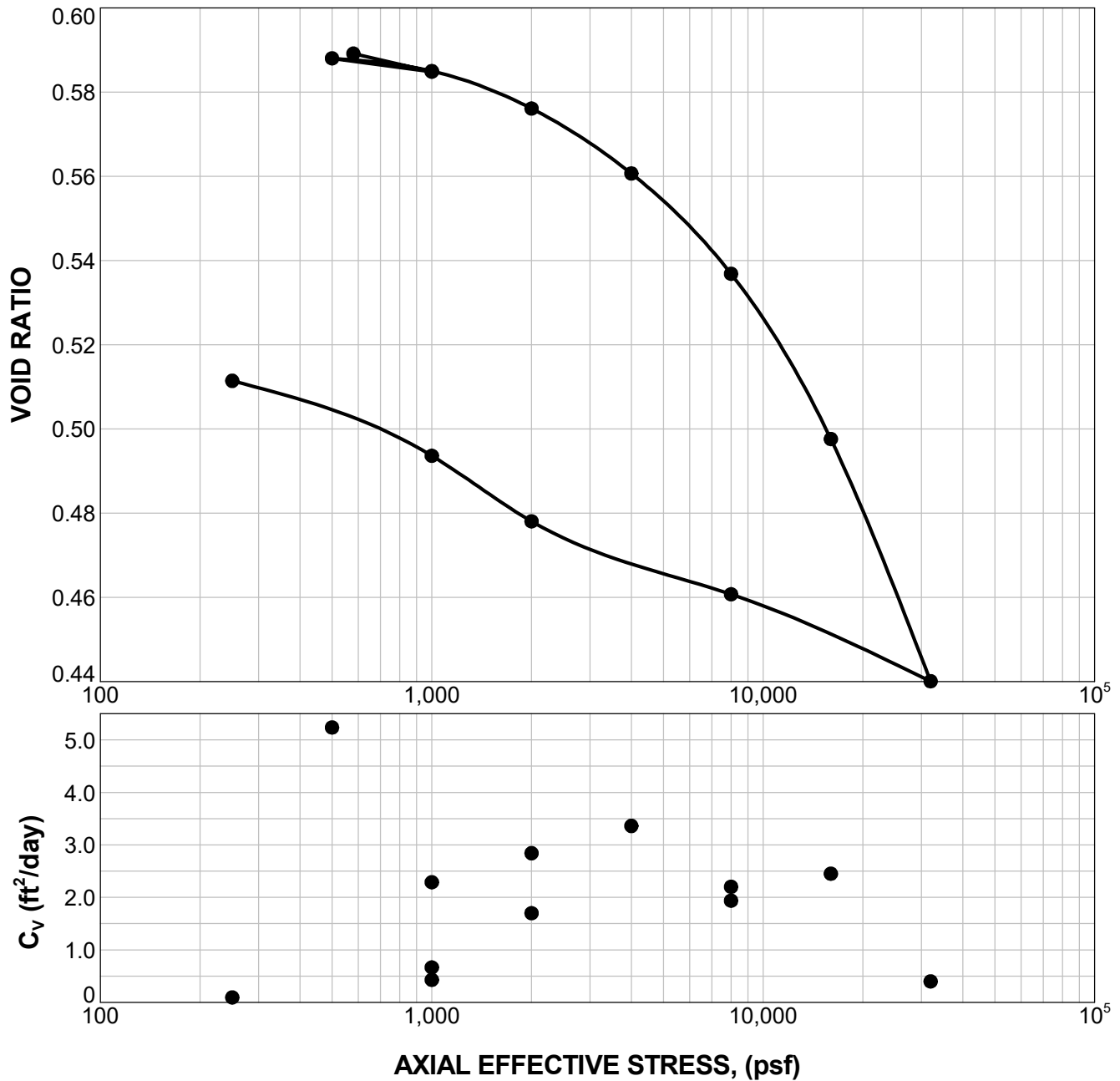
PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2
 LOCATION: Richland and Lexington Counties, SC
 PROJECT #: 73225031
 CLIENT: Infrastructure Consulting & Engineering, PLLC
 DATE: 03/25/22

521 Clemson Road
Columbia, SC



CONSOLIDATION TEST (D2435)



Natural		Initial Dry Density (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c (vr / log stress)	C_c (vr / log stress)	Initial Void Ratio
Saturation	Moisture									
91.2 %	24.1 %	97.3	53	25	2.48	905	6,937	0.205	0.011	0.701
MATERIAL DESCRIPTION									USCS	AASHTO
SANDY FAT CLAY									CH	A-7-6

NOTES: Percent Fines: 51.1%

Borehole: G-069A Depth: 8 ft Specimen #: ST-2 Date Started: 03/14/2022 Date Completed: 03/29/2022

PROJECT: Carolina Crossroads Phase 2

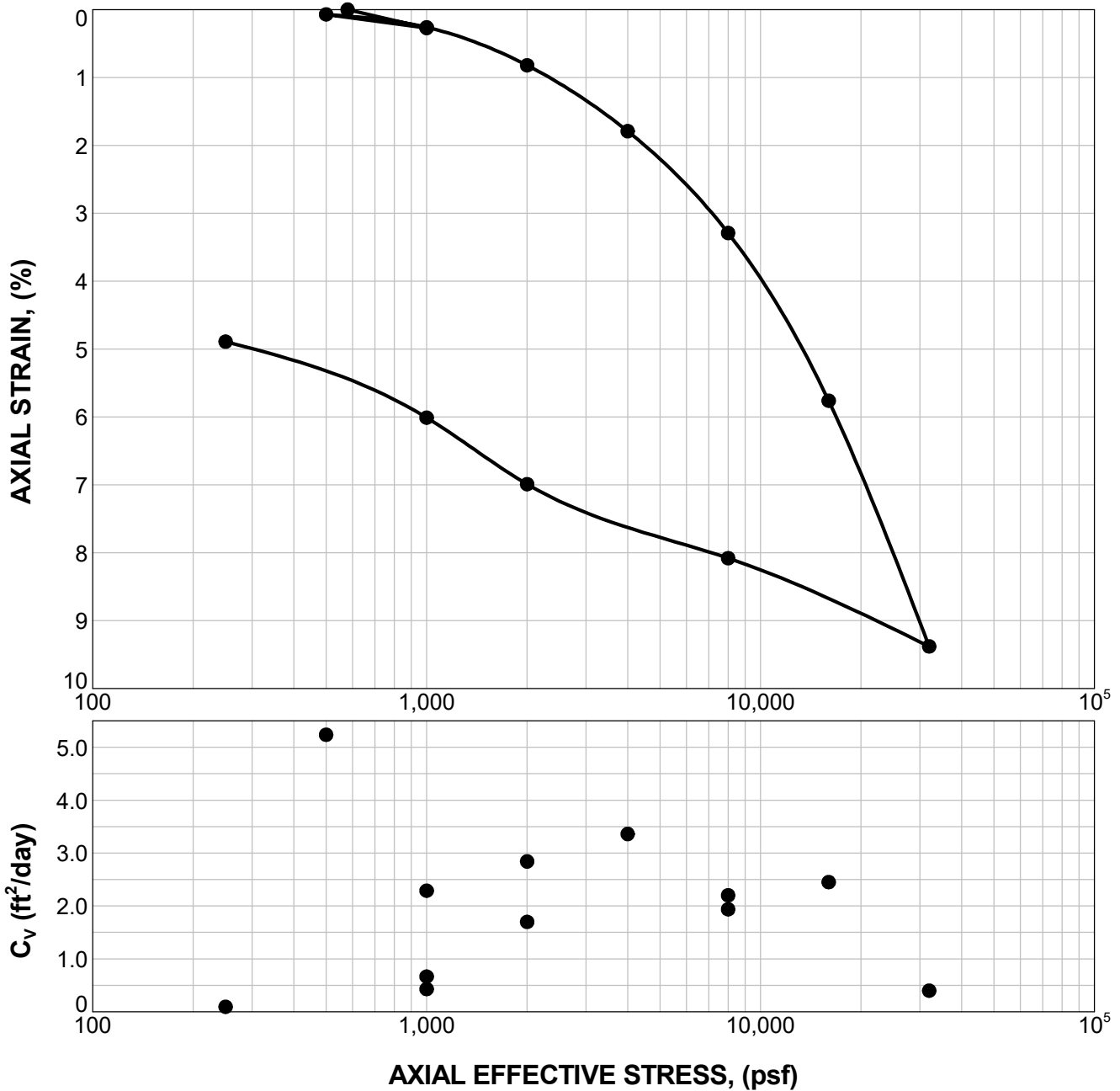
SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

CONSOLIDATION TEST (D2435)



Natural		Initial Dry Density (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c (% / log stress)	C_c (% / log stress)	Initial Void Ratio
Saturation	Moisture									
91.2 %	24.1 %	97.3	53	25	2.48	905	6,937	12.025	0.664	0.701
MATERIAL DESCRIPTION									USCS	AASHTO
SANDY FAT CLAY									CH	A-7-6

NOTES: Percent Fines: 51.1%

Borehole: G-069A Depth: 8 ft Specimen #: ST-2 Date Started: 03/14/2022 Date Completed: 03/29/2022

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

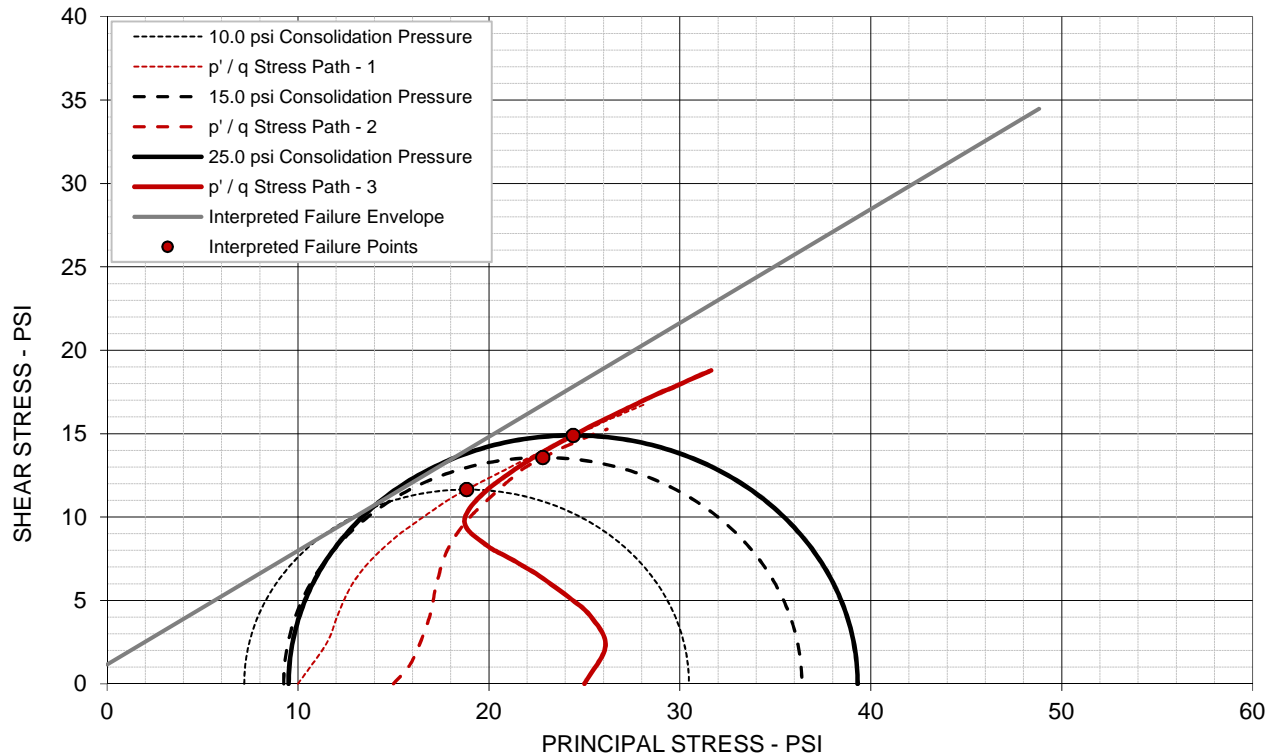
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting &
Engineering, PLLC
Charleston, SC

ICU TRIAXIAL COMPRESSION TEST

ASTM D4767 / AASHTO T297

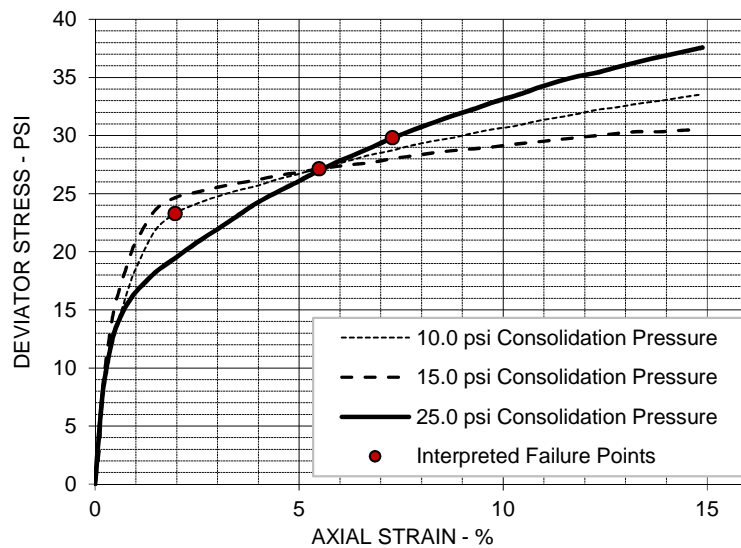
Failure Criteria: Max Obliquity (s1': s3')



EFFECTIVE STRESS PARAMETERS

$\phi' = 34.3$ deg

$c' = 1.2$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	14.7	14.7	14.7
Dry Density - pcf	105.7	105.8	107.6
Diameter - inches	2.90	2.89	2.87
Height - inches	5.97	5.95	6.00

AT TEST

Final Moisture - %	19.7	19.8	17.9
Dry Density - pcf	106.1	106.5	108.9
Calculated Diameter (in.)	2.88	2.87	2.83
Height - inches	5.92	5.91	5.92
Effect. Consol. Stress - psi	10.0	15.0	25.0
Failure Stress - psi	23.29	27.14	29.80
Total Pore Pressure - psi	52.8	55.8	65.5
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	2.0	5.5	7.3
σ_1' Failure - psi	30.48	36.39	39.31
σ_3' Failure - psi	7.19	9.25	9.51

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Undisturbed

DESCRIPTION: Clayey Sand (SC) / A-2-7 (4)

SAMPLE ID: G-129 20-22' ST-1

SPECIFIC GRAVITY: 2.65

LL: 59 PL: 23 PI: 36 Percent -200: 31.1%

Remarks:

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

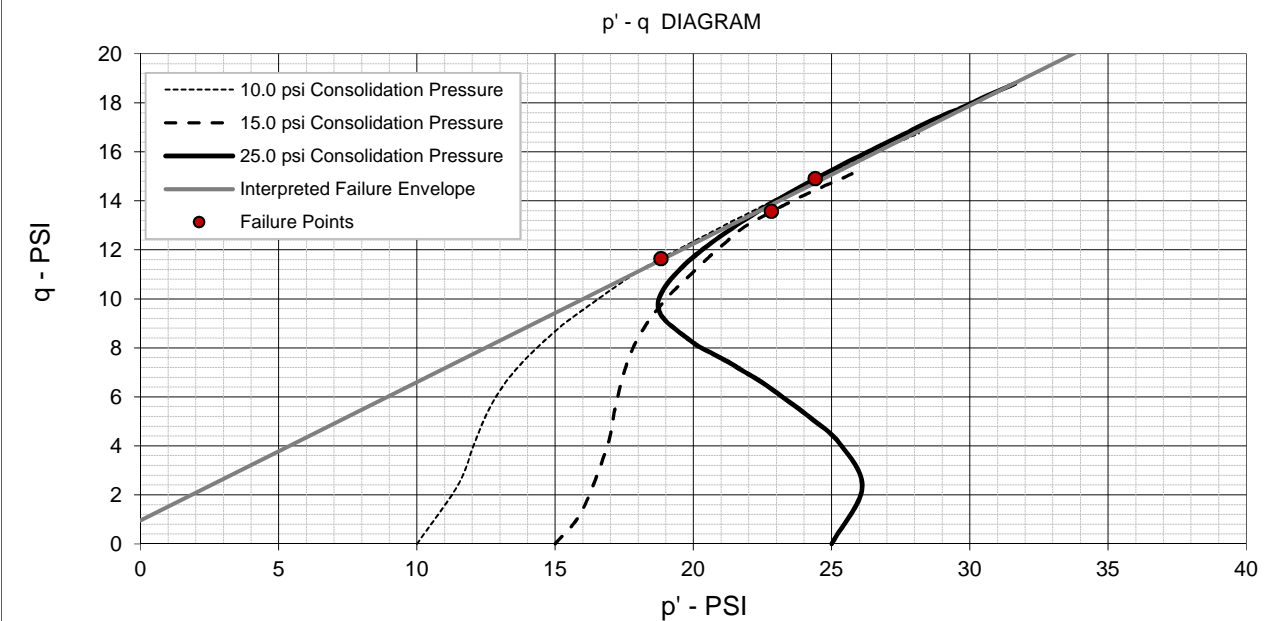
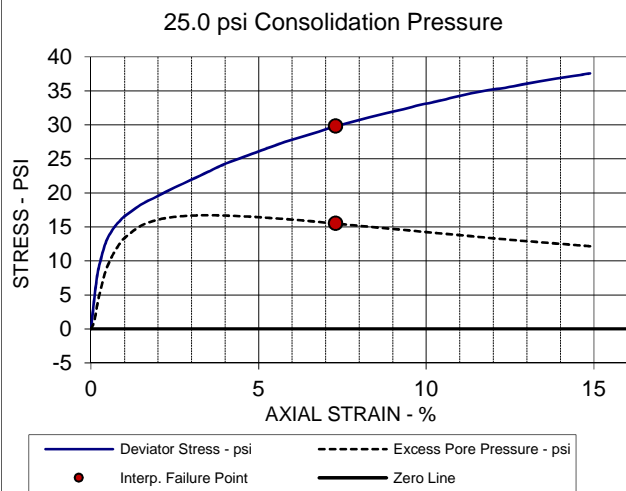
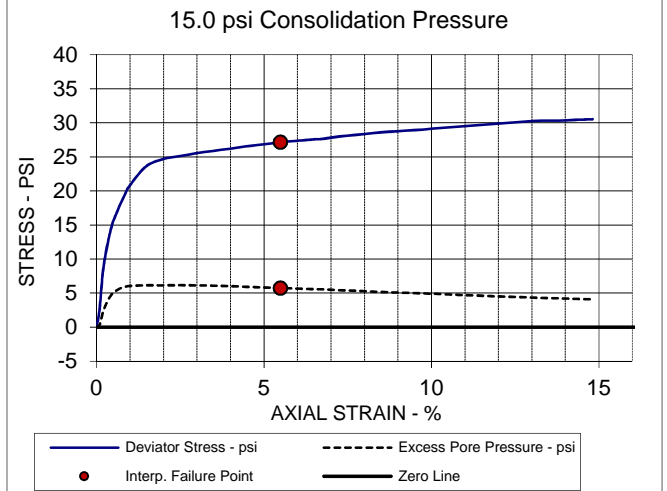
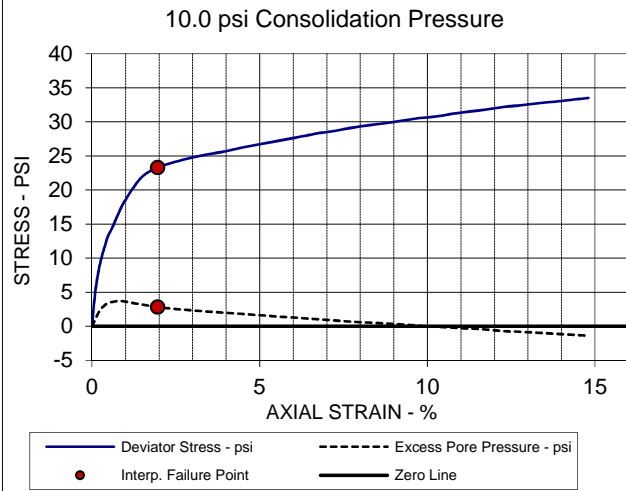
PROJECT #: 73225031


CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/25/22

521 Clemson Road
Columbia, SC



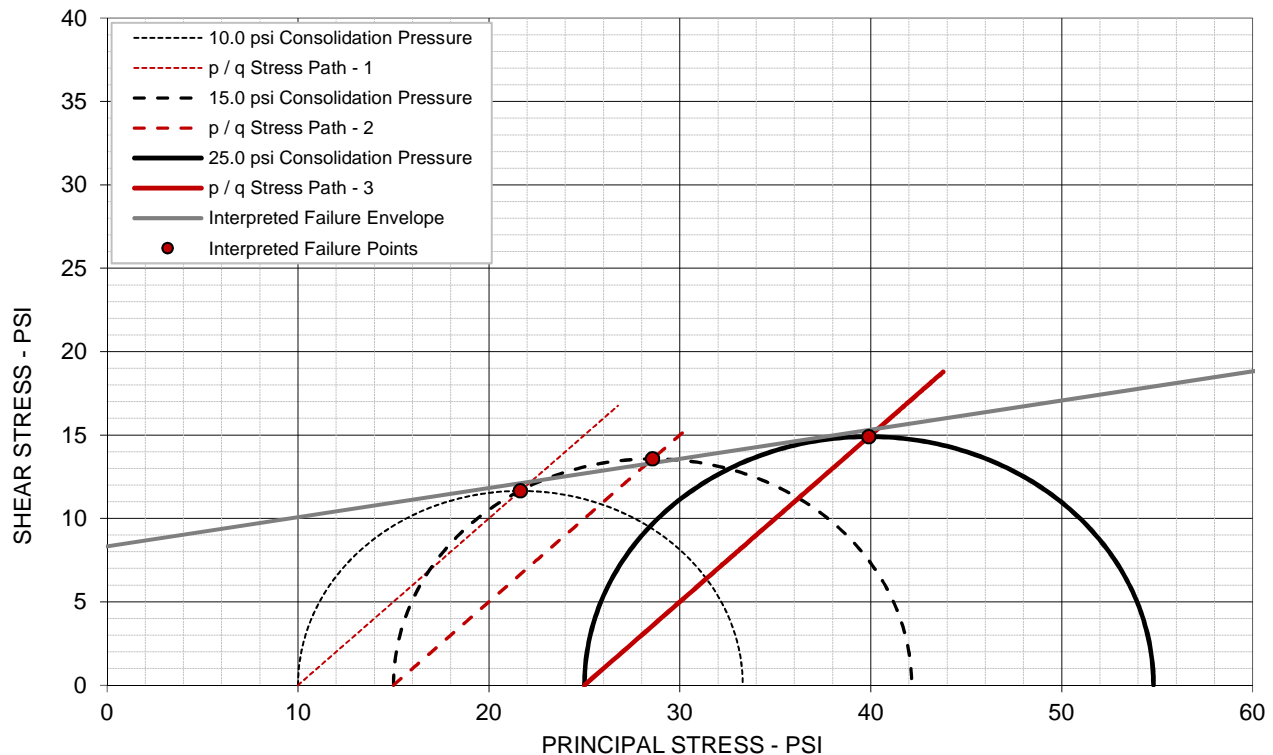


EFFECTIVE STRESS PARAMETERS	R ² = 0.99	α = 29.4 deg	a = 1.0 psi
PROJECT: Carolina Crossroads Phase 2		ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION TEST	
LOCATION: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC	
SAMPLE ID: G-129 20-22' ST-1		<div>521 Clemson Road Columbia, SC</div> <div></div>	
DESCRIPTION: Clayey Sand (SC) / A-2-7 (4)			

ICU TRIAXIAL COMPRESSION TEST

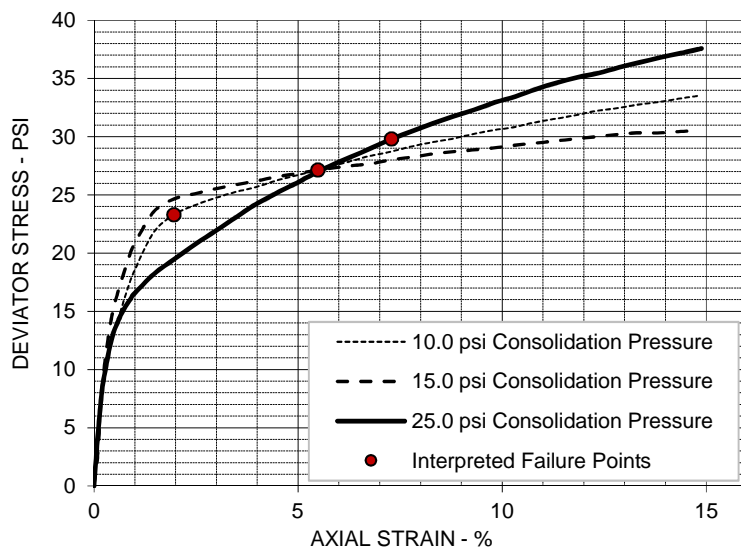
ASTM D4767 / AASHTO T297

Failure Criteria: Max Obliquity (s1': s3')



TOTAL STRESS PARAMETERS

$\phi = 9.9$ deg $c = 8.3$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	14.7	14.7	14.7
Dry Density - pcf	105.7	105.8	107.6
Diameter - inches	2.90	2.89	2.87
Height - inches	5.97	5.95	6.00

AT TEST

Final Moisture - %	19.7	19.8	17.9
Dry Density - pcf	106.1	106.5	108.9
Calculated Diameter (in.)	2.88	2.87	2.83
Height - inches	5.92	5.91	5.92
Effect. Consol. Stress - psi	10.0	15.0	25.0
Failure Stress - psi	23.29	27.14	29.80
Total Pore Pressure - psi	52.8	55.8	65.5
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	2.0	5.5	7.3
σ_1 Failure - psi	33.29	42.14	54.80
σ_3 Failure - psi	10.00	15.00	25.00

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Undisturbed

DESCRIPTION: Clayey Sand (SC) / A-2-7 (4)

SAMPLE ID: G-129 20-22' ST-1

SPECIFIC GRAVITY: 2.65

LL: 59 PL: 23 PI: 36 Percent -200: 31.1%

Remarks:

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

PROJECT #: 73225031

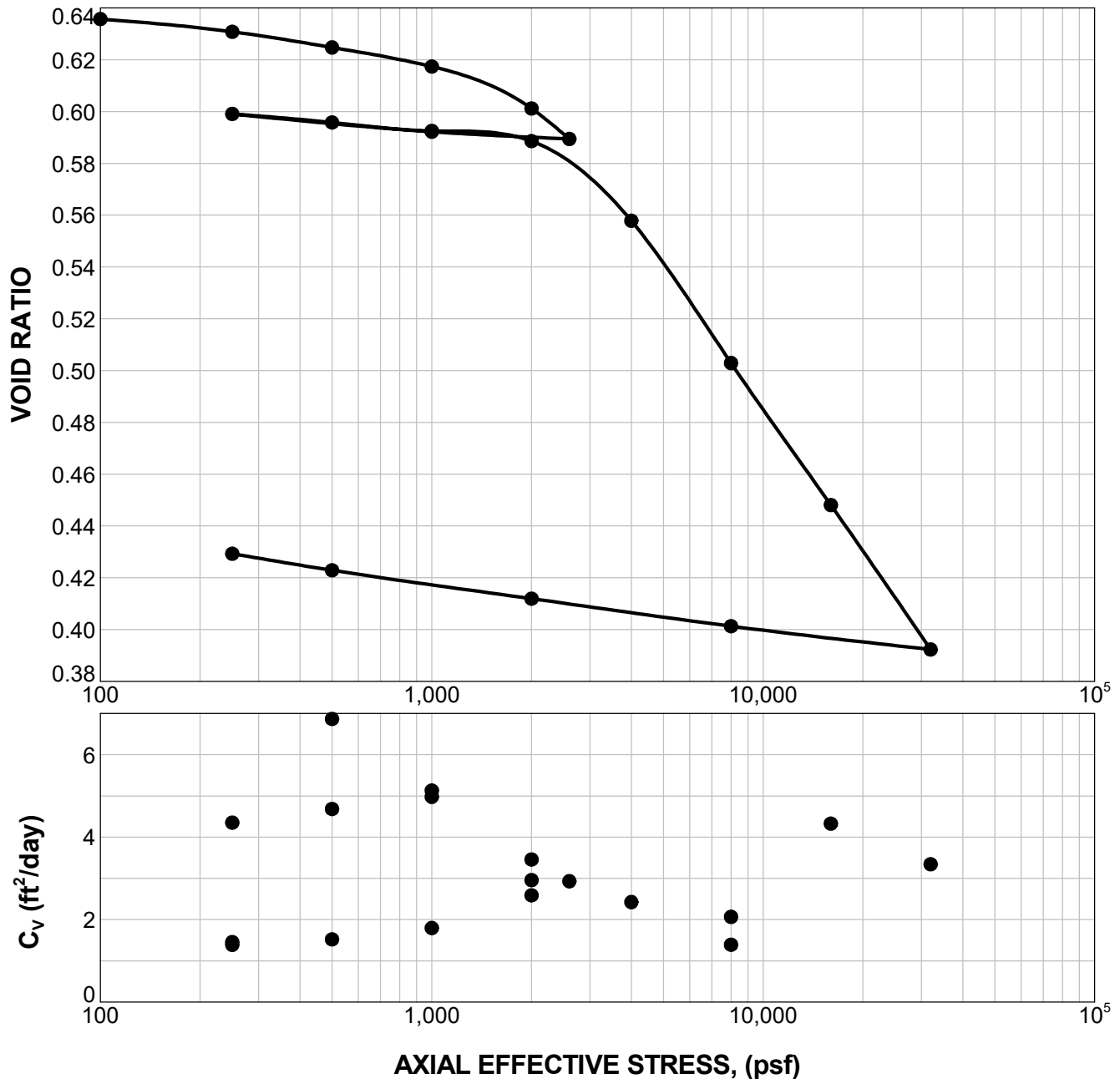
CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/25/22

521 Clemson Road
Columbia, SC



CONSOLIDATION TEST (D2435)



Natural		Initial Dry Density (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P _c (psf)	C _c (vr / log stress)	C _c (vr / log stress)	Initial Void Ratio
Saturation	Moisture									
59.4 %	14.7 %	97.9	59	36	2.57	2580	2,214	0.185	0.010	0.636
MATERIAL DESCRIPTION									USCS	AASHTO
CLAYEY SAND									SC	A-2-7

NOTES: Percent Fines: 31.1%

Borehole: G-129A Depth: 22 ft Specimen #: ST-2 Date Started: 03/07/2022 Date Completed: 03/28/2022

PROJECT: Carolina Crossroads Phase 2

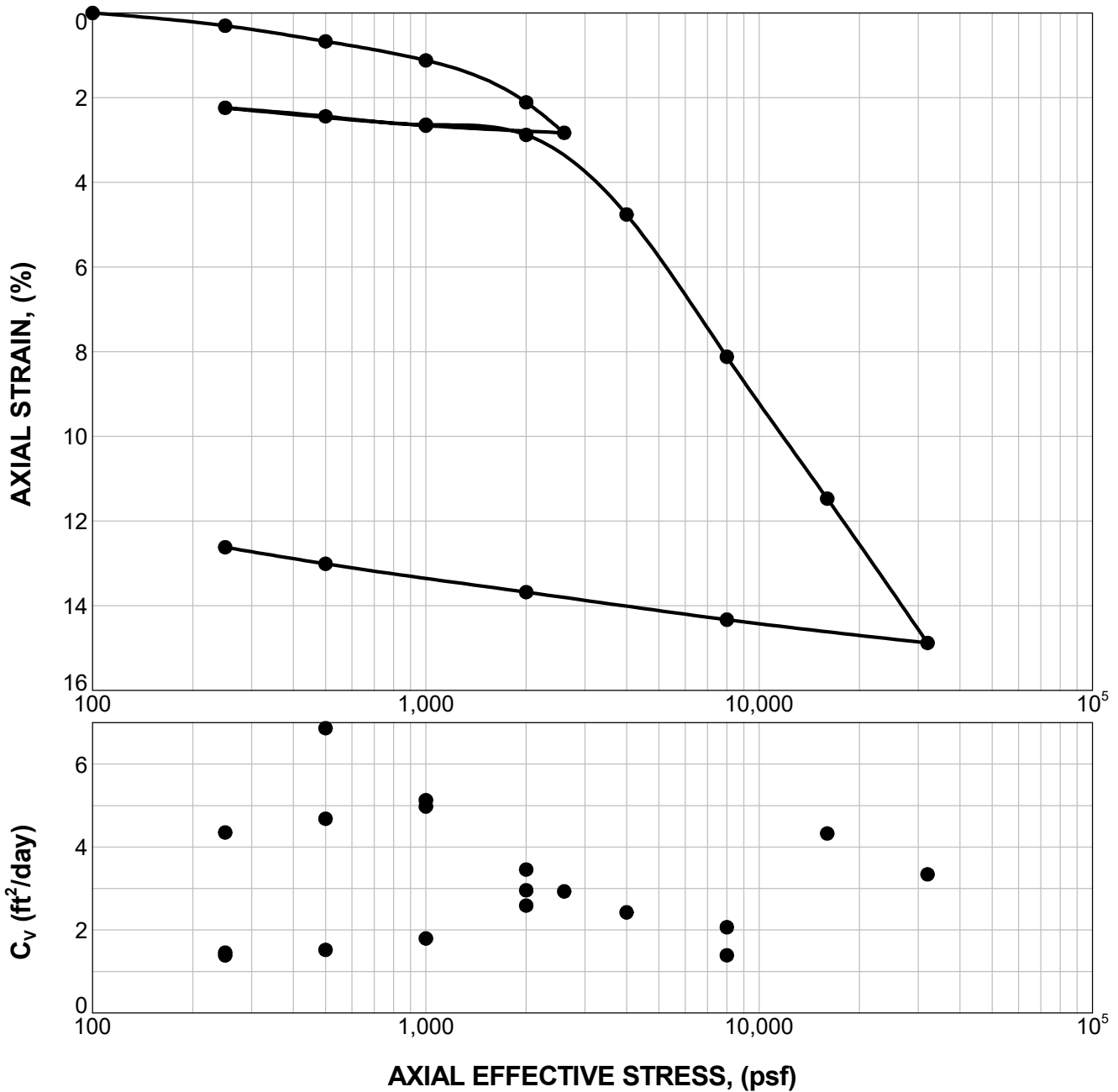
SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting &
Engineering, PLLC
Charleston, SC

CONSOLIDATION TEST (D2435)



Natural		Initial Dry Density (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c (% / log stress)	C_u (% / log stress)	Initial Void Ratio
Saturation	Moisture									
59.4 %	14.7 %	97.9	59	36	2.57	2580	2,214	11.328	0.589	0.636

MATERIAL DESCRIPTION									USCS	AASHTO
CLAYEY SAND									SC	A-2-7

NOTES: Percent Fines: 31.1%

Borehole: G-129A Depth: 22 ft Specimen #: ST-2 Date Started: 03/07/2022 Date Completed: 03/28/2022

PROJECT: Carolina Crossroads Phase 2

SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

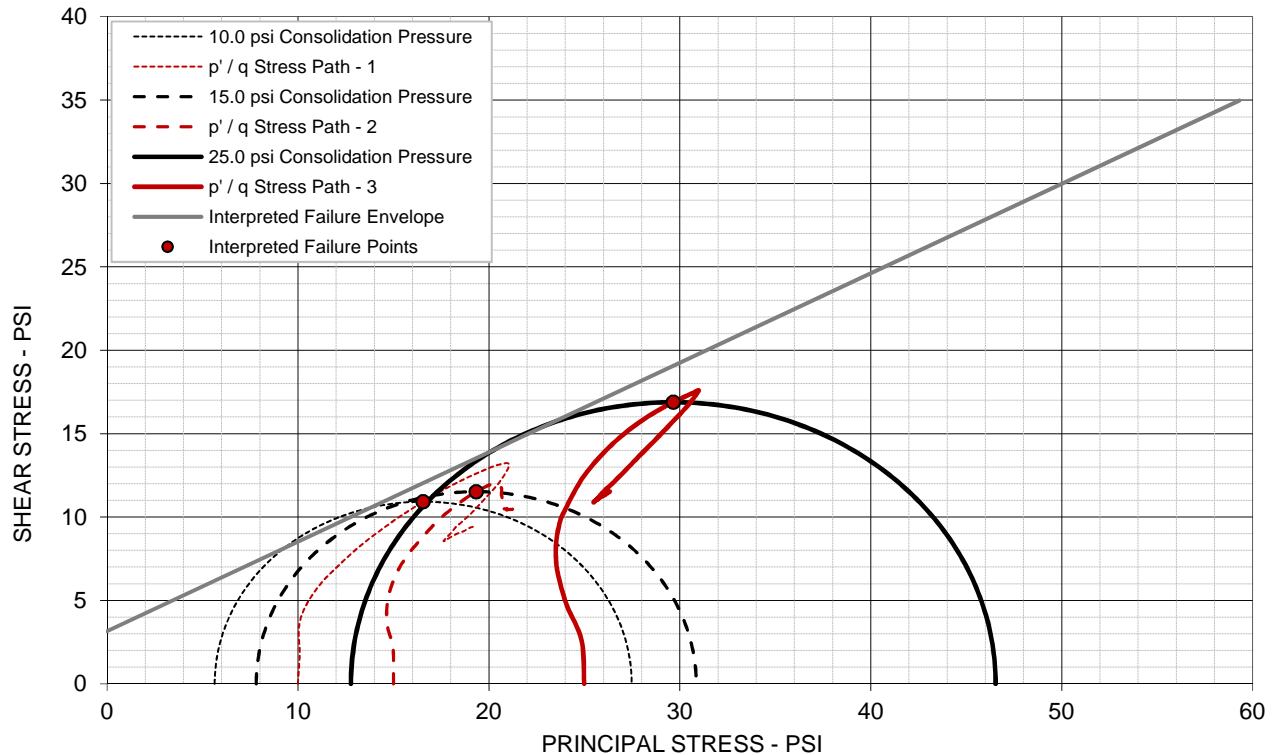
PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting &
Engineering, PLLC
Charleston, SC

ICU TRIAXIAL COMPRESSION TEST

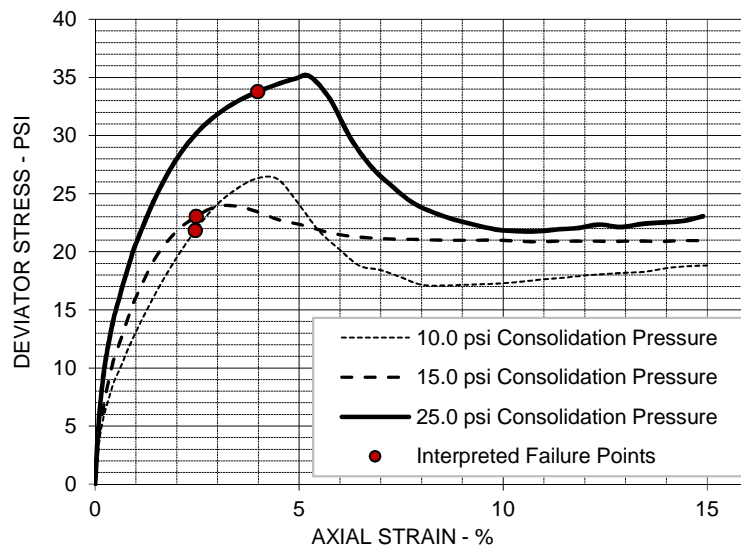
ASTM D4767 / AASHTO T297

Failure Criteria: Max Obliquity (s1': s3')



EFFECTIVE STRESS PARAMETERS

$\phi' = 28.2$ deg $c' = 3.2$ psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	36.4	36.4	36.4
Dry Density - pcf	81.1	84.4	85.1
Diameter - inches	2.90	2.85	2.86
Height - inches	5.96	5.95	5.95

AT TEST

Final Moisture - %	41.4	40.4	36.7
Dry Density - pcf	82.0	86.4	87.9
Calculated Diameter (in.)	2.89	2.82	2.83
Height - inches	5.94	5.89	5.87
Effect. Consol. Stress - psi	10.0	15.0	25.0
Failure Stress - psi	21.84	23.04	33.76
Total Pore Pressure - psi	54.4	57.2	62.2
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	2.5	2.5	4.0
σ_1' Failure - psi	27.48	30.86	46.54
σ_3' Failure - psi	5.64	7.81	12.77

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION

SAMPLE TYPE: Undisturbed

DESCRIPTION: Elastic Silt with Sand (MH) / A-7-5 (17)

SAMPLE ID: G-138 22-24' ST-1

SPECIFIC GRAVITY: 2.65

LL: 55 PL: 38 PI: 17 Percent -200: 81.4%

Remarks:

PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2

LOCATION: Richland and Lexington Counties, SC

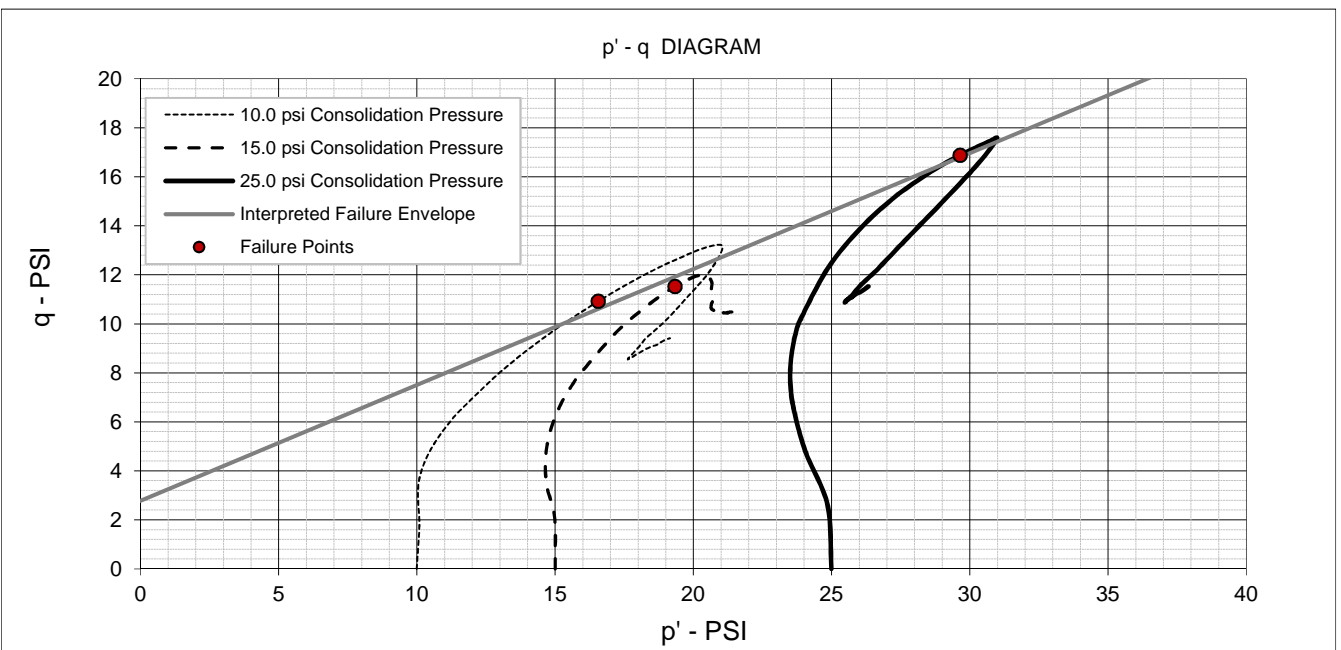
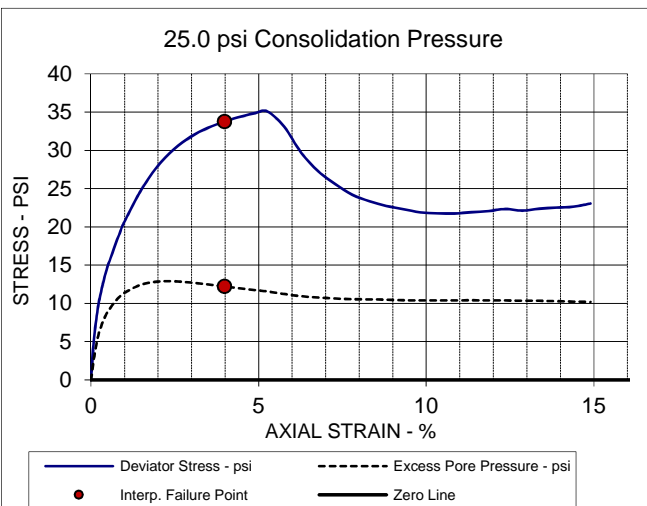
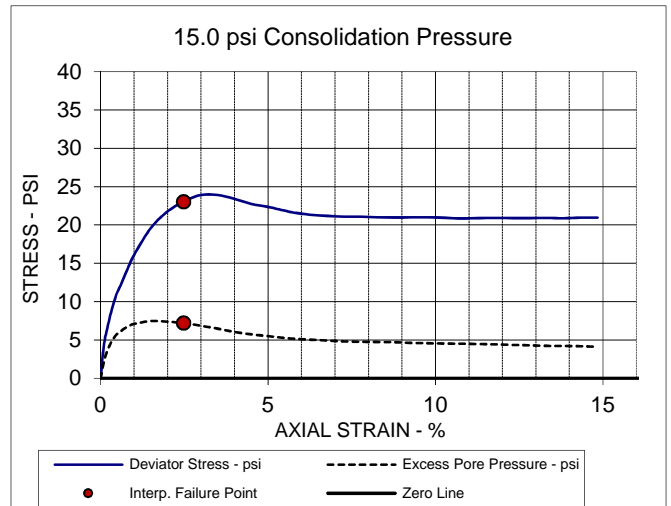
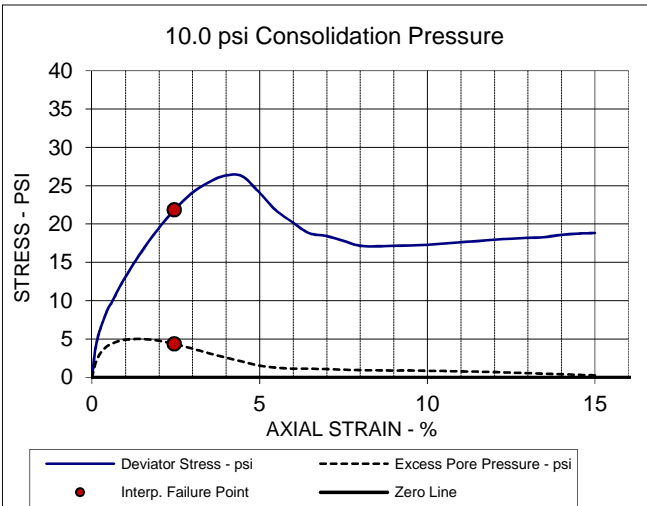
PROJECT #: 73225031


CLIENT: Infrastructure Consulting & Engineering, PLLC

DATE: 03/25/22

521 Clemson Road
Columbia, SC

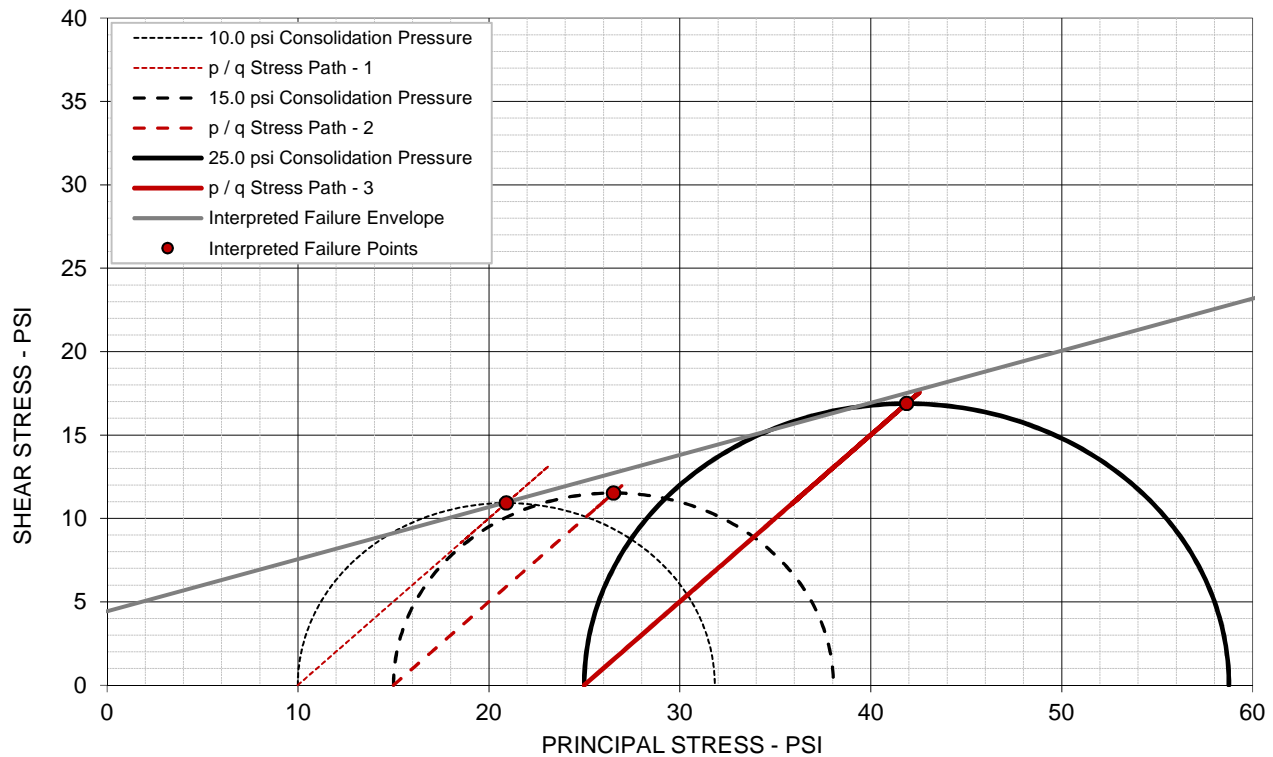




EFFECTIVE STRESS PARAMETERS		R ² = 0.99	α = 25.3 deg	a = 2.8 psi
PROJECT: Carolina Crossroads Phase 2			ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION TEST	
LOCATION: Richland and Lexington Counties, SC			CLIENT: Infrastructure Consulting & Engineering, PLLC	
SAMPLE ID: G-138 22-24' ST-1			<div>521 Clemson Road Columbia, SC</div> <div></div>	
DESCRIPTION: Elastic Silt with Sand (MH) / A-7-5 (17)				

ICU TRIAXIAL COMPRESSION TEST ASTM D4767 / AASHTO T297

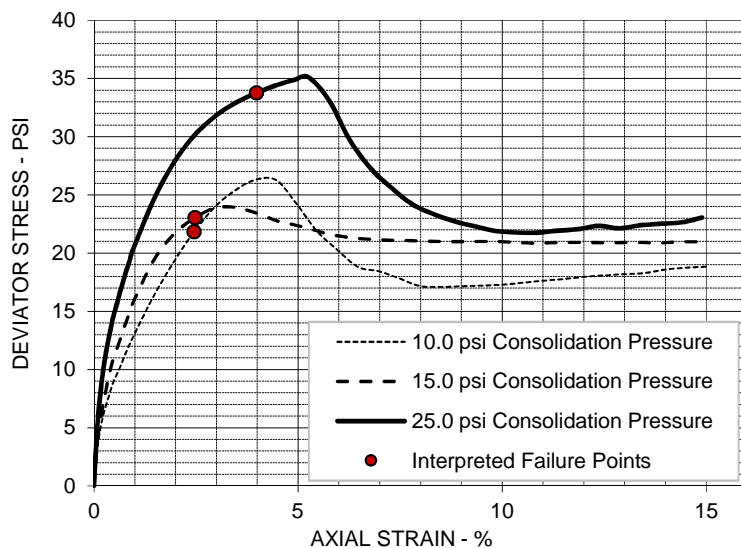
Failure Criteria: Max Obliquity (s1': s3')



TOTAL STRESS PARAMETERS

$\phi = 17.3$ deg

c = 4.4 psi



SPECIMEN NO.

1 2 3

INITIAL

Moisture Content - %	36.4	36.4	36.4
Dry Density - pcf	81.1	84.4	85.1
Diameter - inches	2.90	2.85	2.86
Height - inches	5.96	5.95	5.95

AT TEST

Final Moisture - %	41.4	40.4	36.7
Dry Density - pcf	82.0	86.4	87.9
Calculated Diameter (in.)	2.89	2.82	2.83
Height - inches	5.94	5.89	5.87
Effect. Consol. Stress - psi	10.0	15.0	25.0
Failure Stress - psi	21.84	23.04	33.76
Total Pore Pressure - psi	54.4	57.2	62.2
Strain Rate - inches/min.	0.0020	0.0020	0.0020
Failure Strain - %	2.5	2.5	4.0
σ_1 Failure - psi	31.83	38.04	58.75
σ_3 Failure - psi	9.99	15.00	24.99

TEST DESCRIPTION

ISOTROPICALLY CONSOLIDATED, UNDRAINED TRIAXIAL COMPRESSION
 SAMPLE TYPE: Undisturbed
 DESCRIPTION: Elastic Silt with Sand (MH) / A-7-5 (17)
 SAMPLE ID: G-138 22-24' ST-1
 SPECIFIC GRAVITY: 2.65
 LL: 55 PL: 38 PI: 17 Percent -200: 81.4%
 Remarks:

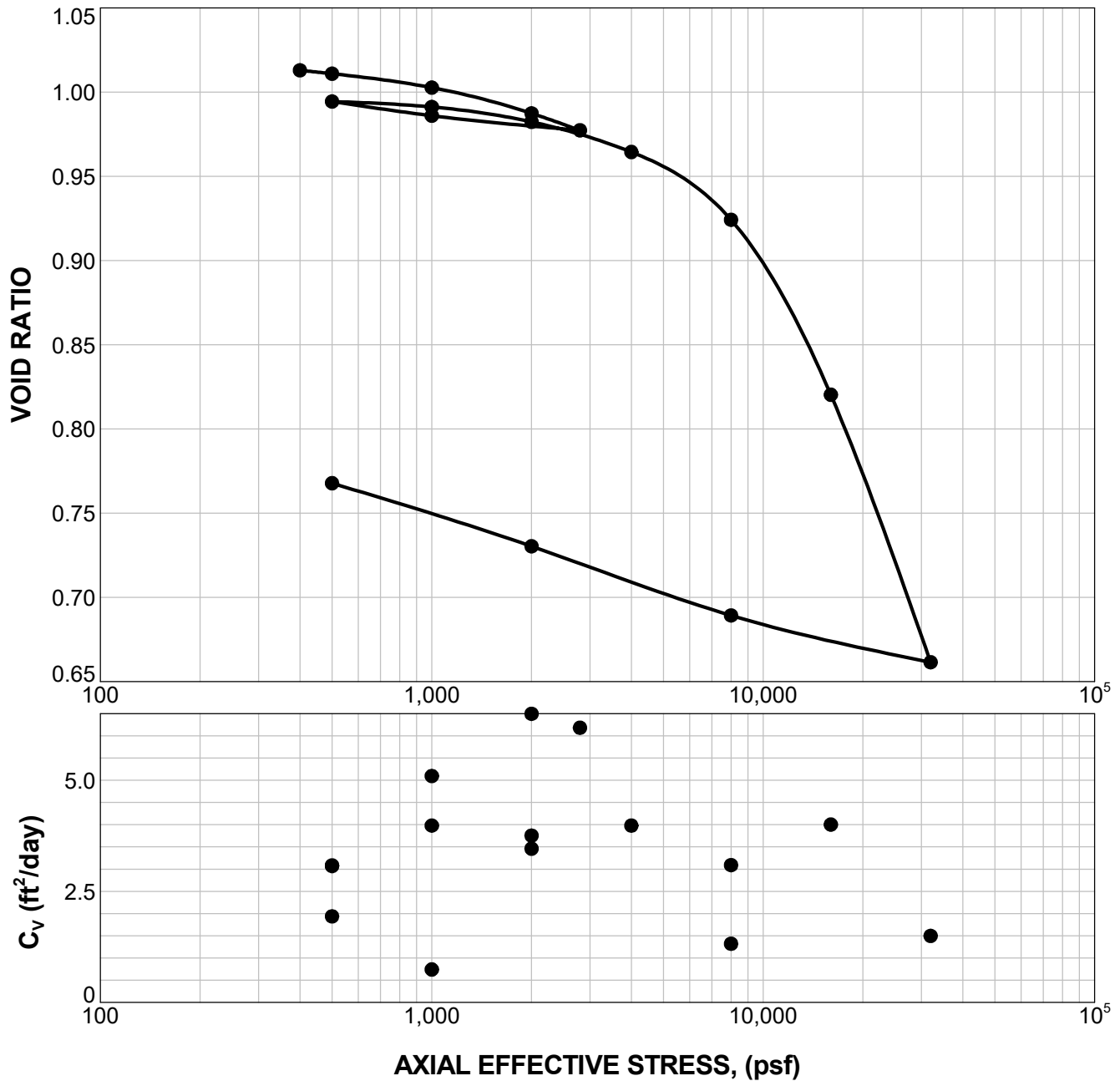
PROJECT INFORMATION

PROJECT: Carolina Crossroads Phase 2
 LOCATION: Richland and Lexington Counties, SC
 PROJECT #: 73225031
 CLIENT: Infrastructure Consulting & Engineering, PLLC
 DATE: 03/25/22

521 Clemson Road
 Columbia, SC



CONSOLIDATION TEST (D2435)



Natural		Initial Dry Density (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c (vr / log stress)	C_r (vr / log stress)	Initial Void Ratio
Saturation	Moisture									
94.7 %	36.4 %	81.6	55	17	2.63	2780	9,339	0.528	0.023	1.013

MATERIAL DESCRIPTION									USCS	AASHTO
ELASTIC SILT with SAND									MH	A-7-5

NOTES: Percent Fines: 81.4%

Borehole: G-138A Depth: 24 ft Specimen #: ST-2 Date Started: 03/10/2022 Date Completed: 03/28/2022

PROJECT: Carolina Crossroads Phase 2

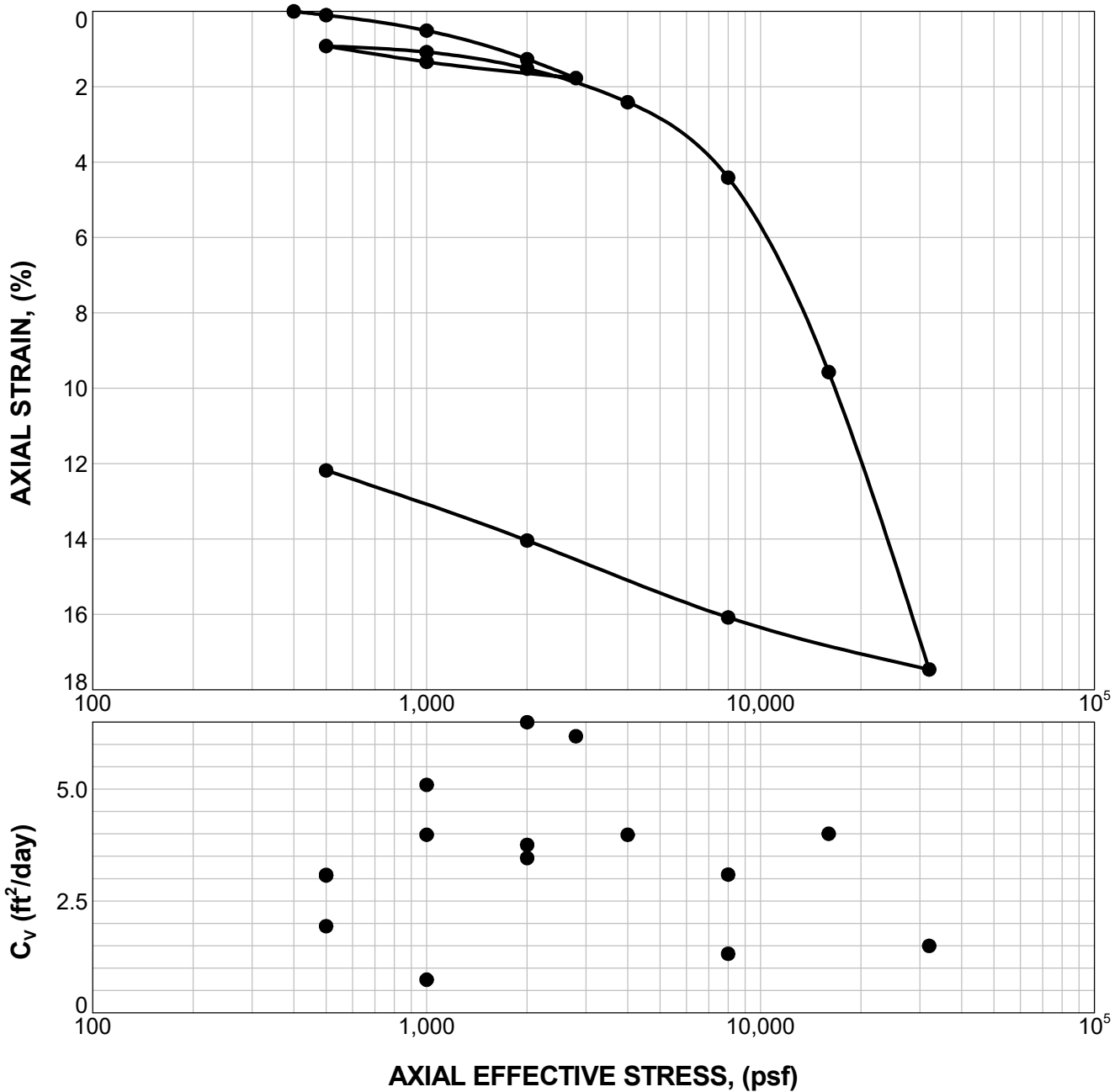
SITE: Richland and Lexington Counties, SC

Terracon
521 Clemson Rd
Columbia, SC

PROJECT NUMBER: 73225031

CLIENT: Infrastructure Consulting & Engineering, PLLC
Charleston, SC

CONSOLIDATION TEST (D2435)



Natural		Initial Dry Density (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c (% / log stress)	C_u (% / log stress)	Initial Void Ratio
Saturation	Moisture									
94.7 %	36.4 %	81.6	55	17	2.63	2780	9,339	26.210	1.123	1.013

MATERIAL DESCRIPTION									USCS	AASHTO
ELASTIC SILT with SAND									MH	A-7-5

NOTES: Percent Fines: 81.4%

Borehole: G-138A Depth: 24 ft Specimen #: ST-2 Date Started: 03/10/2022 Date Completed: 03/28/2022

PROJECT: Carolina Crossroads Phase 2	 521 Clemson Rd Columbia, SC	PROJECT NUMBER: 73225031
SITE: Richland and Lexington Counties, SC		CLIENT: Infrastructure Consulting & Engineering, PLLC Charleston, SC