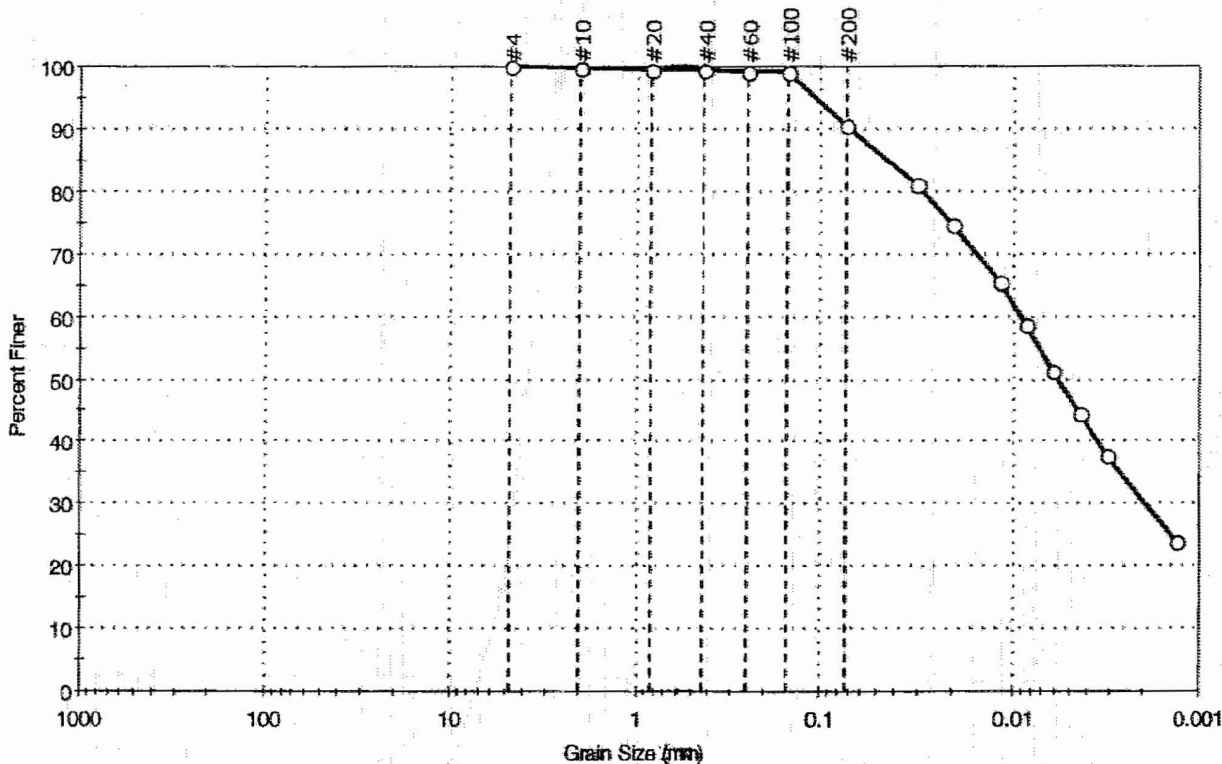


Client: Schnabel Engineering, Inc.	Project No: GTX-6880
Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Tested By: n/a
Location: Calvert County, MD	Checked By: mcm
Boring ID: B-423	Sample Type: tube
Sample ID: S-41	Test Date: 10/17/06
Depth: 188.5-189.0 ft	Test ID: 100192
Test Comment: ---	
Sample Description: Moist olive gray sandy clay	
Sample Comment: ---	

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.0	9.4	90.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	99		
#40	0.42	99		
#60	0.25	99		
#100	0.15	99		
#200	0.074	91		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0314	81		
---	0.0201	75		
---	0.0118	65		
---	0.0085	59		
---	0.0063	51		
---	0.0043	45		
---	0.0031	38		
---	0.0013	24		

Coefficients

D ₈₅ = 0.0443 mm	D ₃₀ = 0.0019 mm
D ₆₀ = 0.0090 mm	D ₁₅ = N/A
D ₅₀ = 0.0057 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification

ASTM elastic silt (MH)

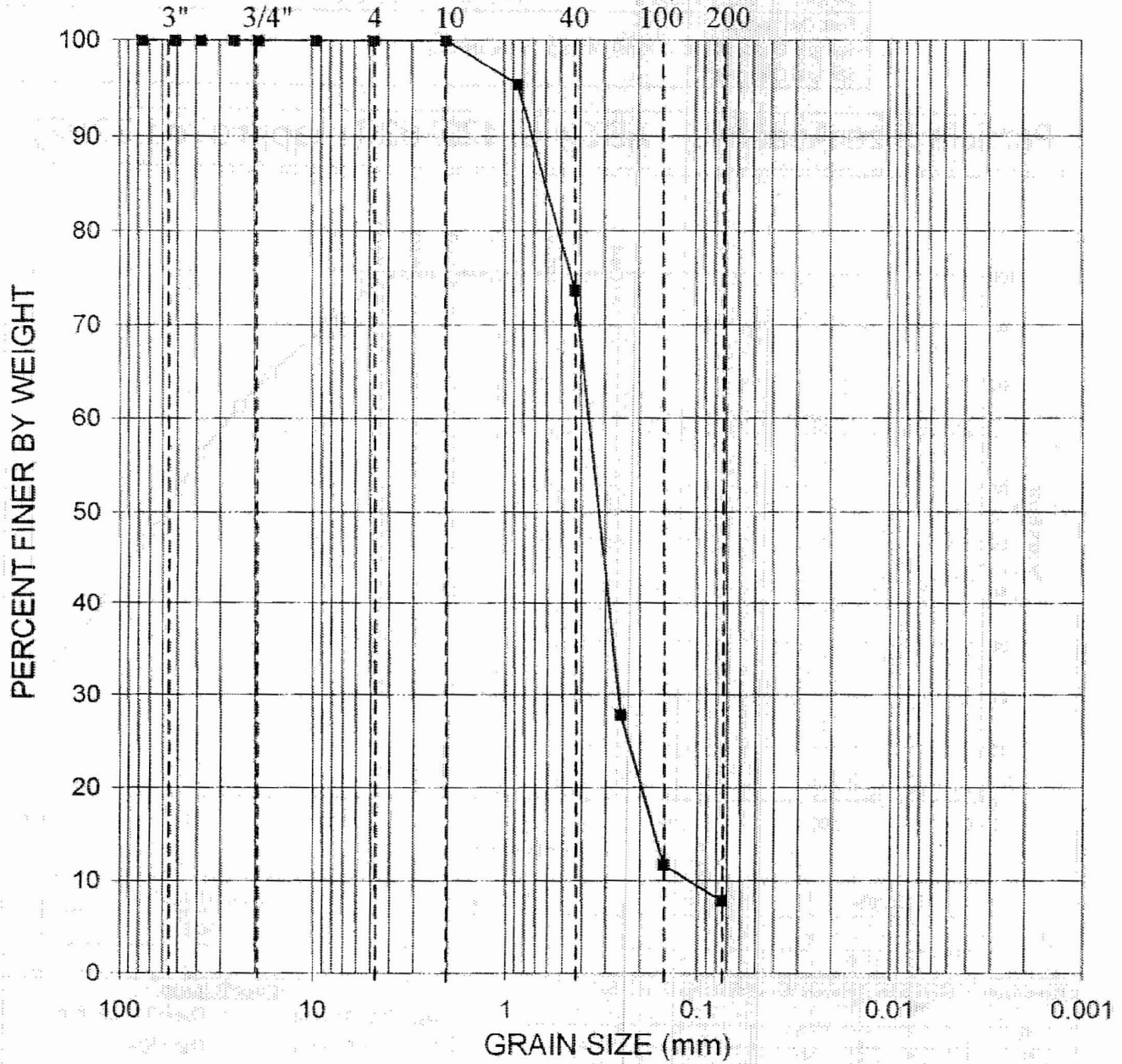
AASHTO Clayey Soils (A-7-5 (59))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

U.S. Standard Sieve Nos.

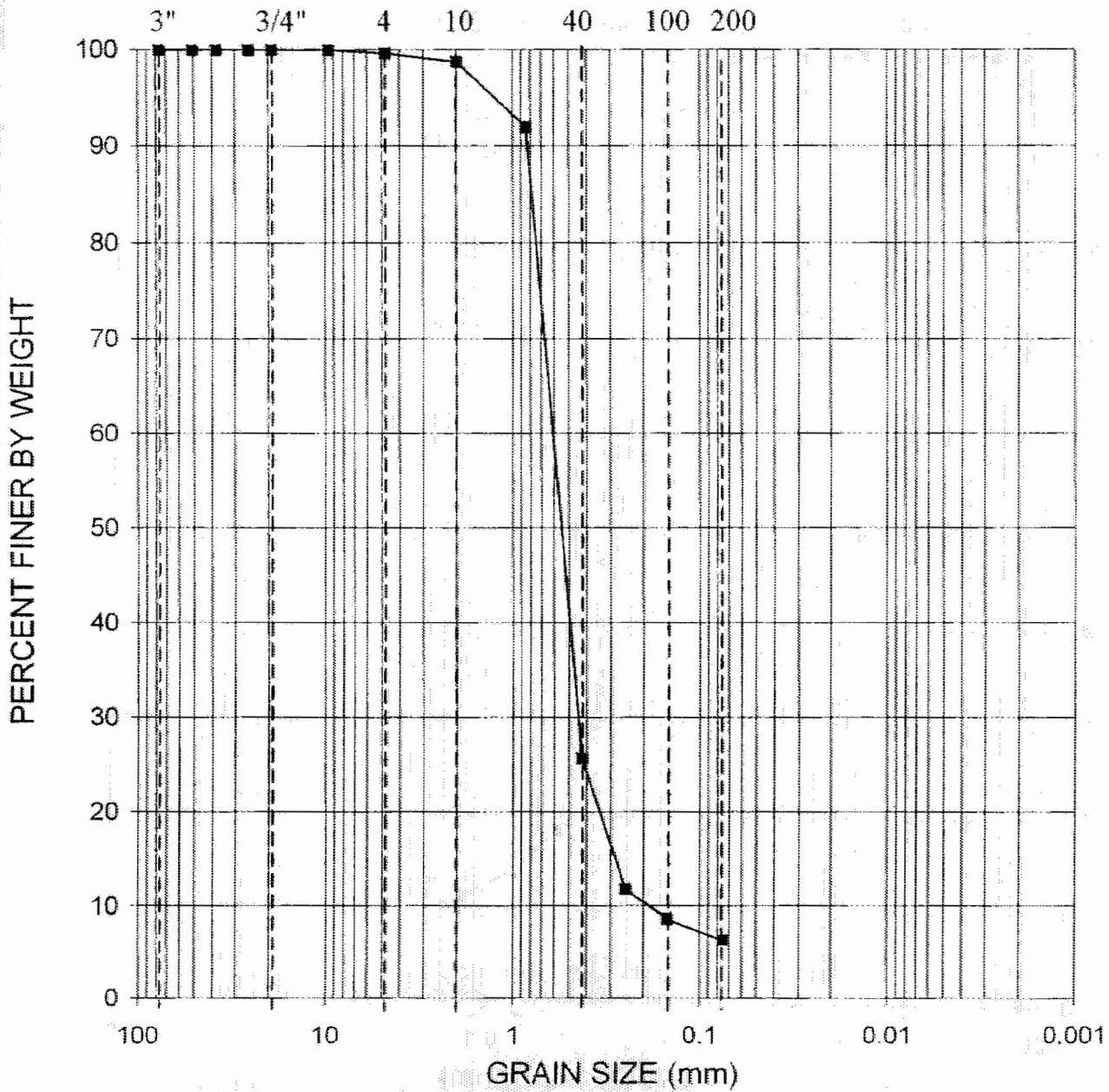


GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No: 06120048.00		Date: 9/19/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-425	3.5	Poorly Graded SAND with silt, brown	SP-SM				

U.S. Standard Sieve Nos.



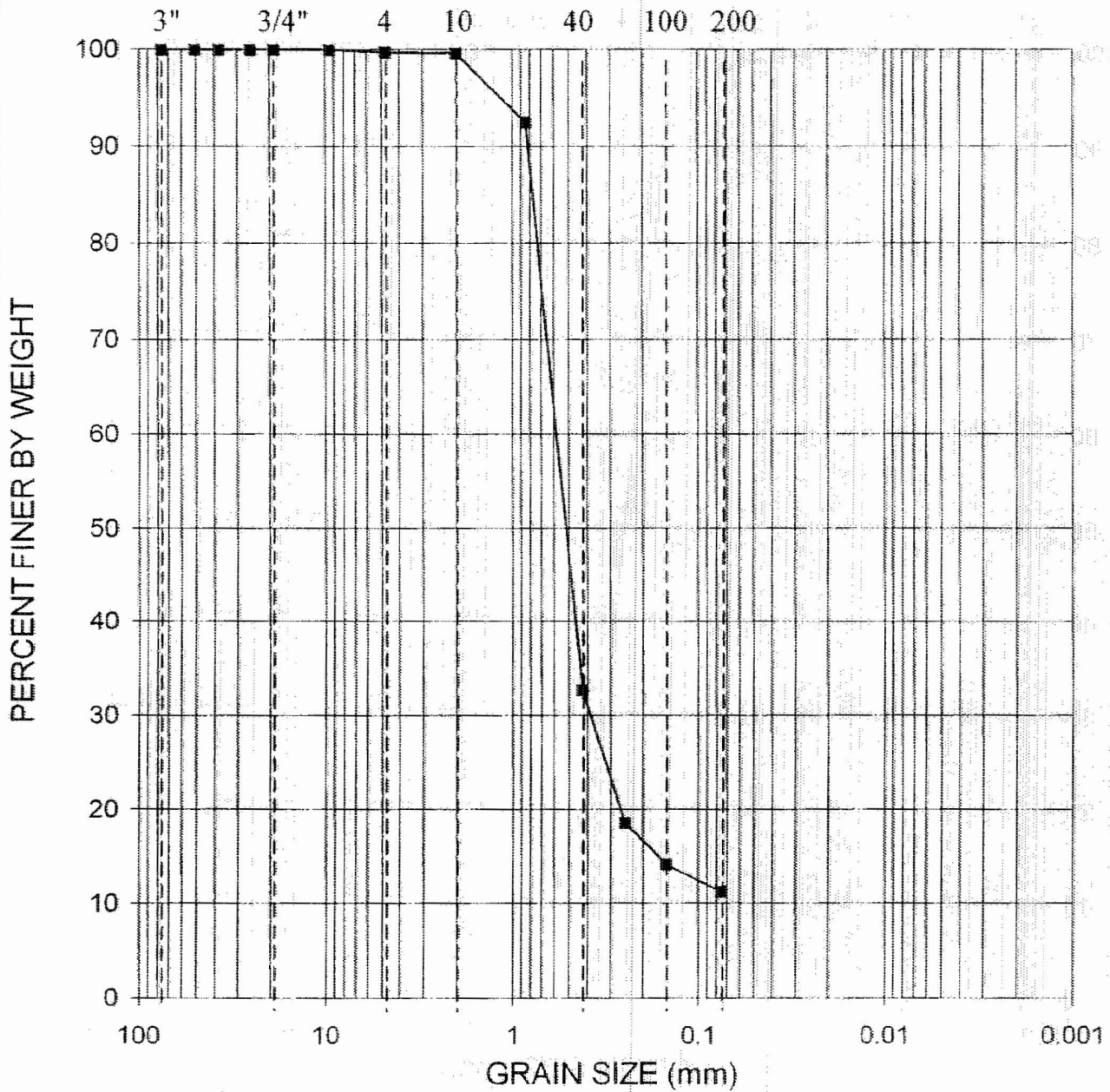
GRAVEL SAND SILT OR CLAY

GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date	9/18/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-425	13.5	Poorly Graded SAND, with silt, brown	SP-SM				

U.S. Standard Sieve Nos.



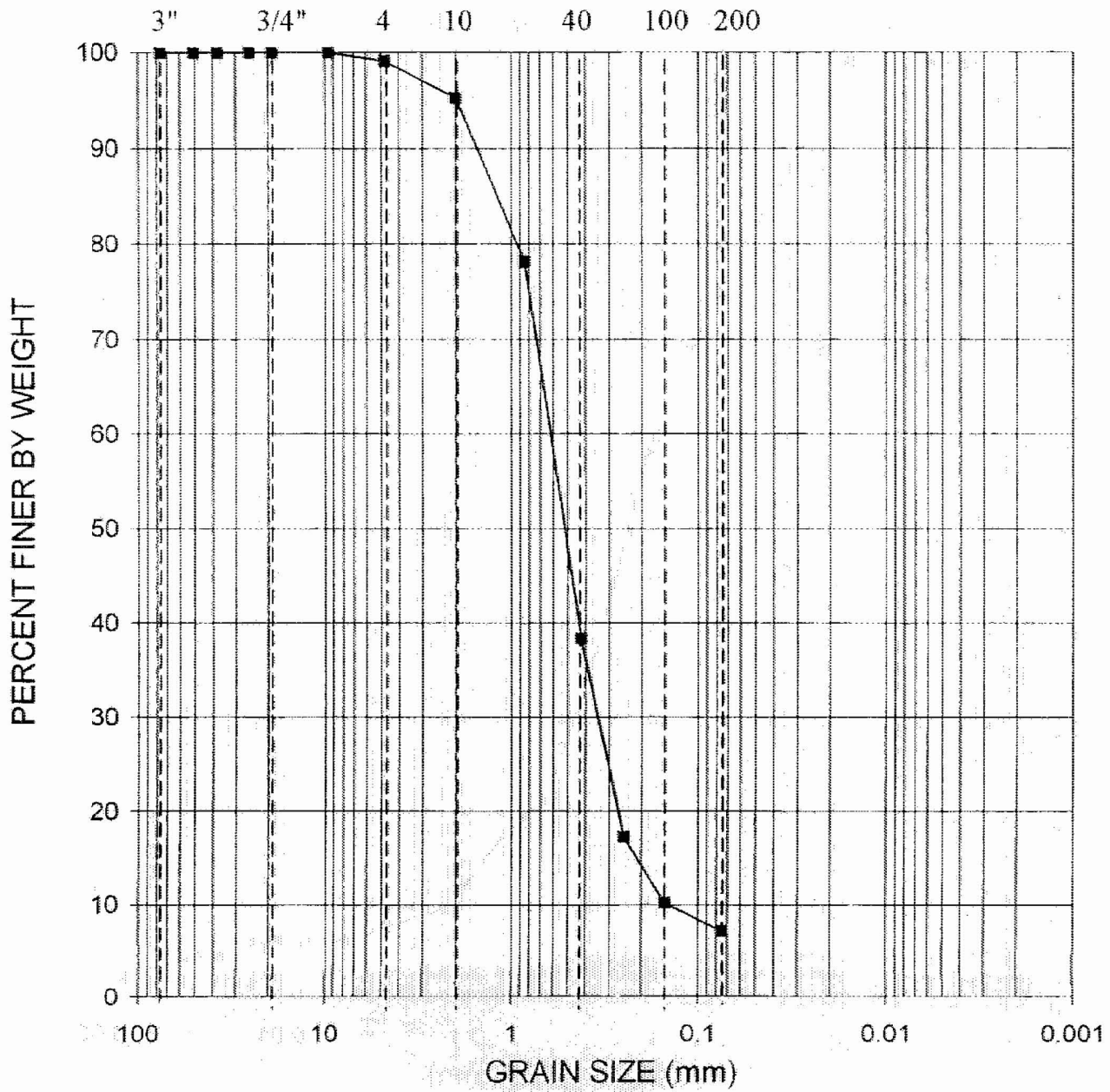
GRAVEL SAND SILT OR CLAY

GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/18/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-425	30.0	Poorly Graded SAND, with silt, brown	SP-SM				

U.S. Standard Sieve Nos.



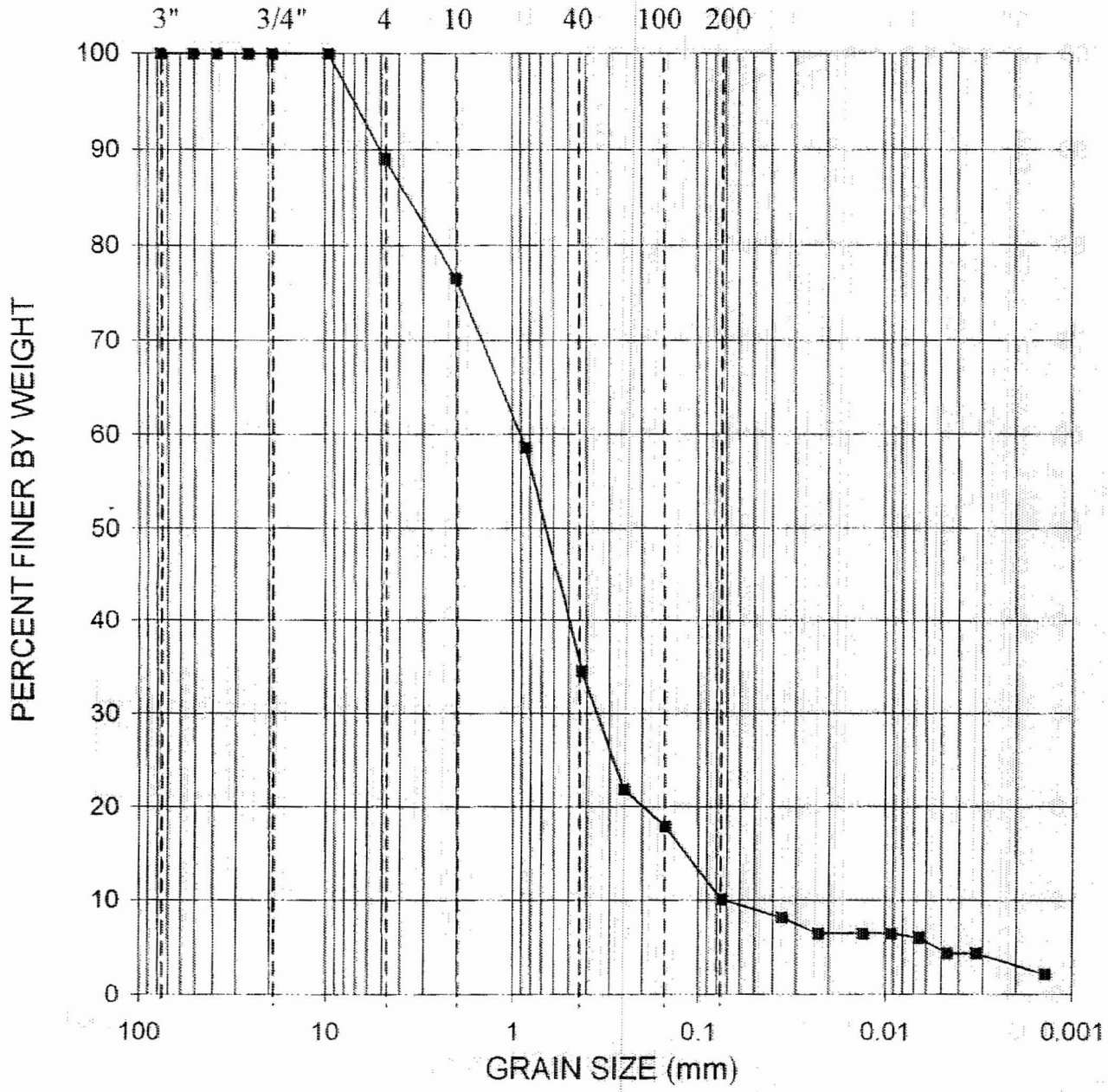
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE

ASTM D422

Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date	9/15/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-425	40.0	Poorly Graded SAND, with silt, brown	SP-SM				

U.S. Standard Sieve Nos.

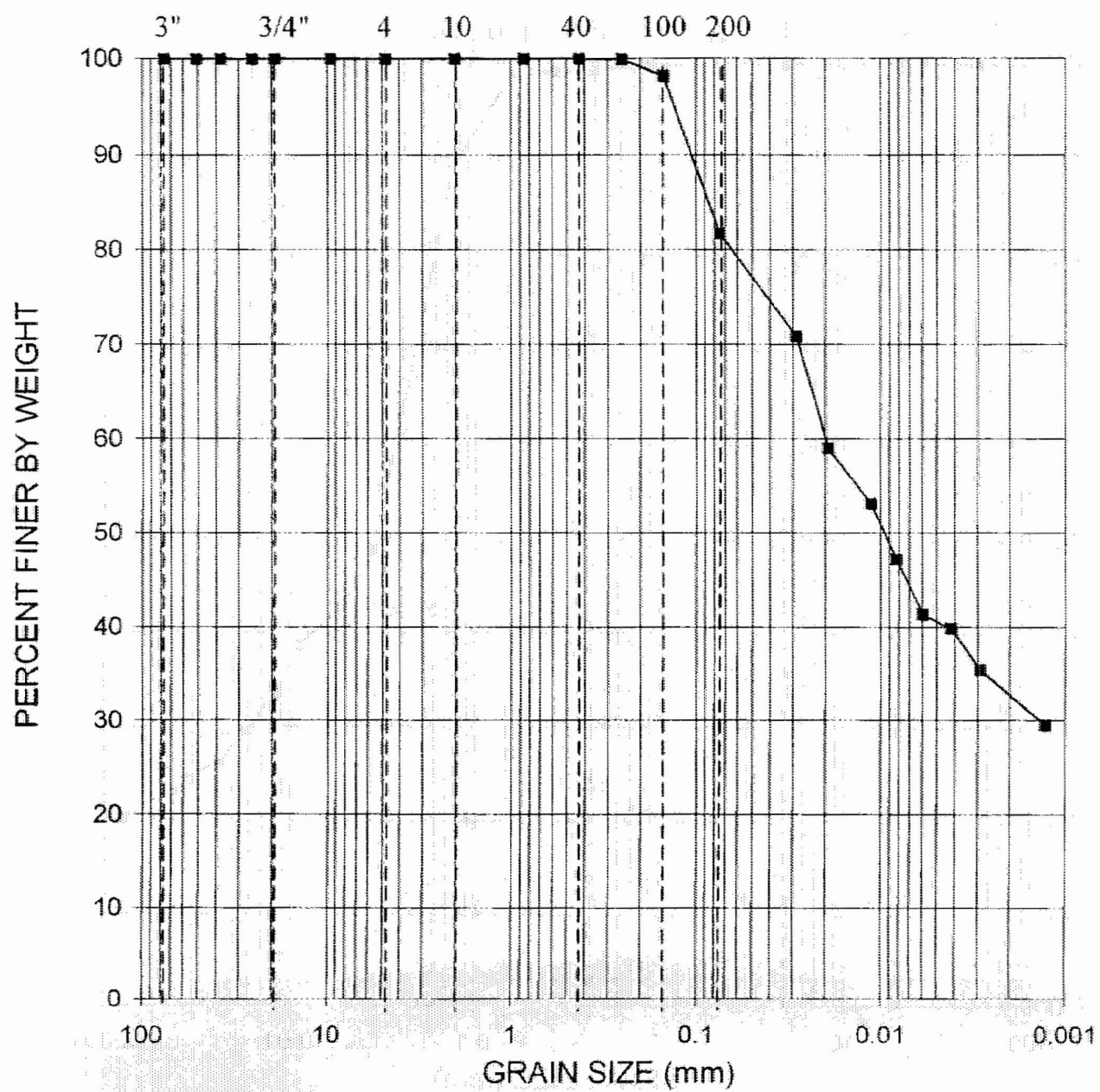


GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.: 06120048.00		Date: 9/22/2006	
Boring No.	Depth (ft)	Sample Description			Class	LL	PI	
B-425	50.0	Well Graded SAND, with silt, trace gravel, brown			SW-SM	28	11	

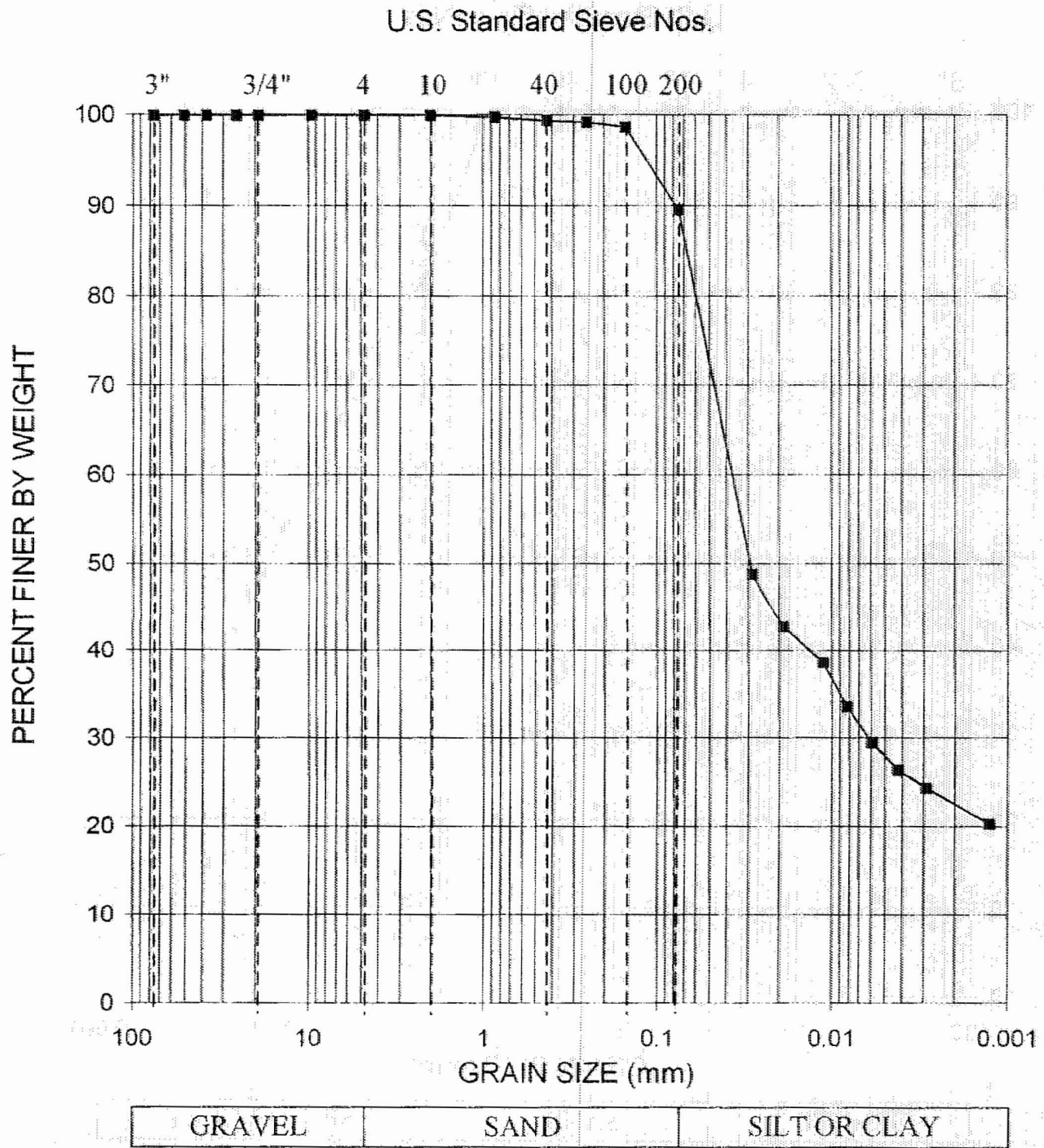
U.S. Standard Sieve Nos.



GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

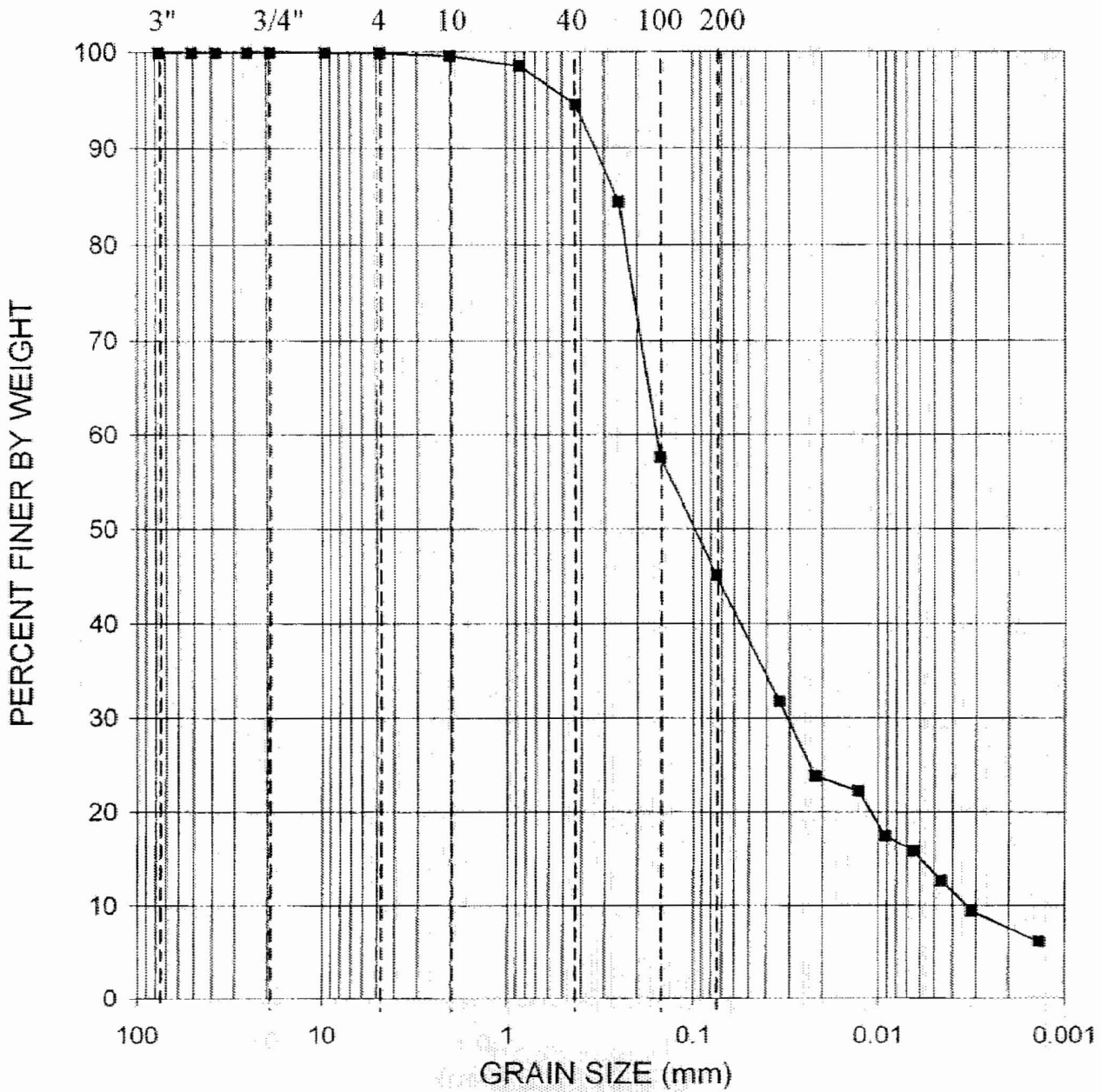
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date:	9/20/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-425	57.0	FAT CLAY, with sand, gray	CH	55	30		



GRADATION CURVE
ASTM D422

Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date	9/20/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-425	65.0	FAT CLAY, trace sand, dark gray	CH	69	41		

U.S. Standard Sieve Nos.



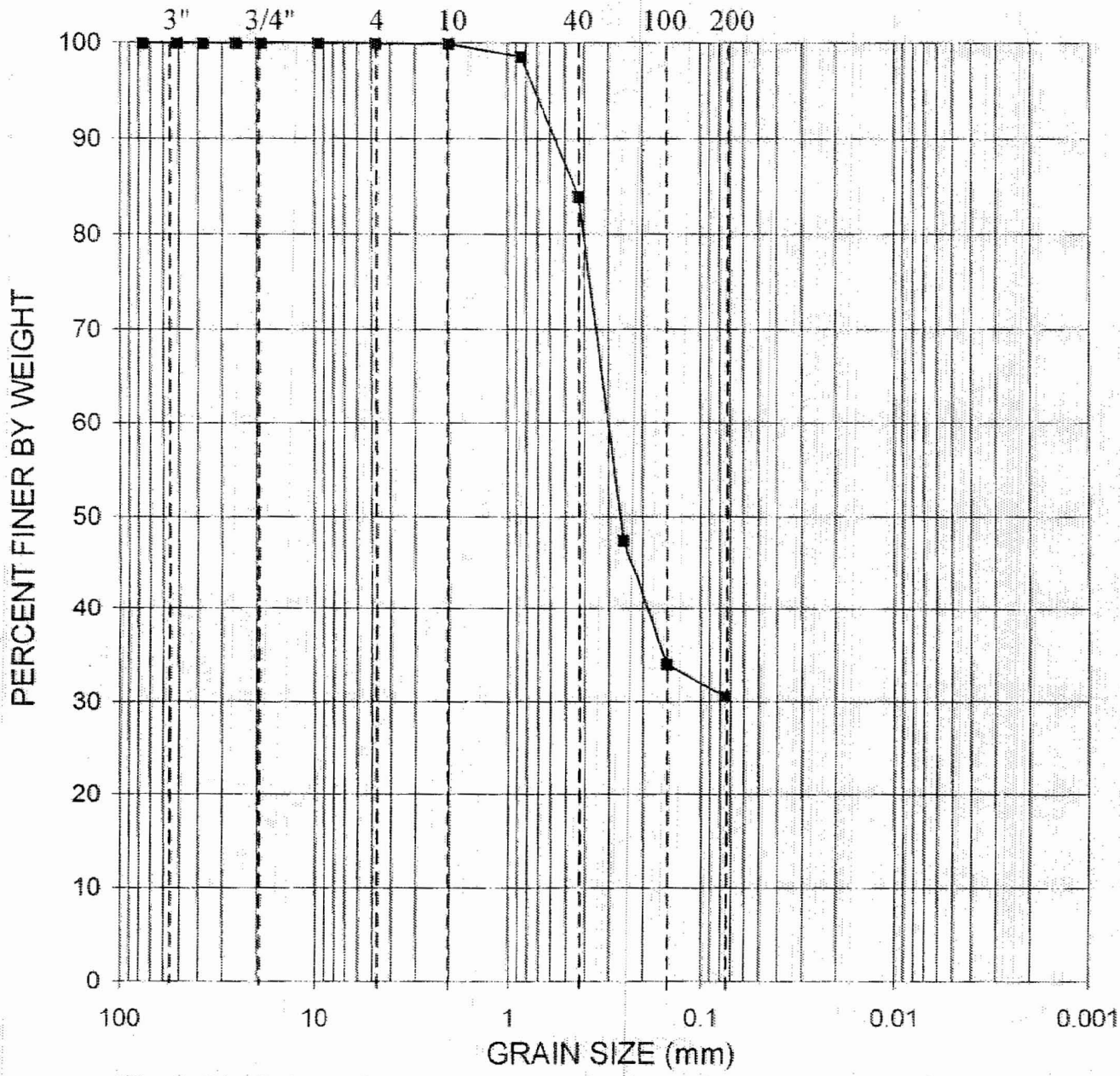
GRAVEL SAND SILT OR CLAY

GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/19/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-425	75.0	Clayey SAND, dark gray	SC	41	21		

U.S. Standard Sieve Nos.



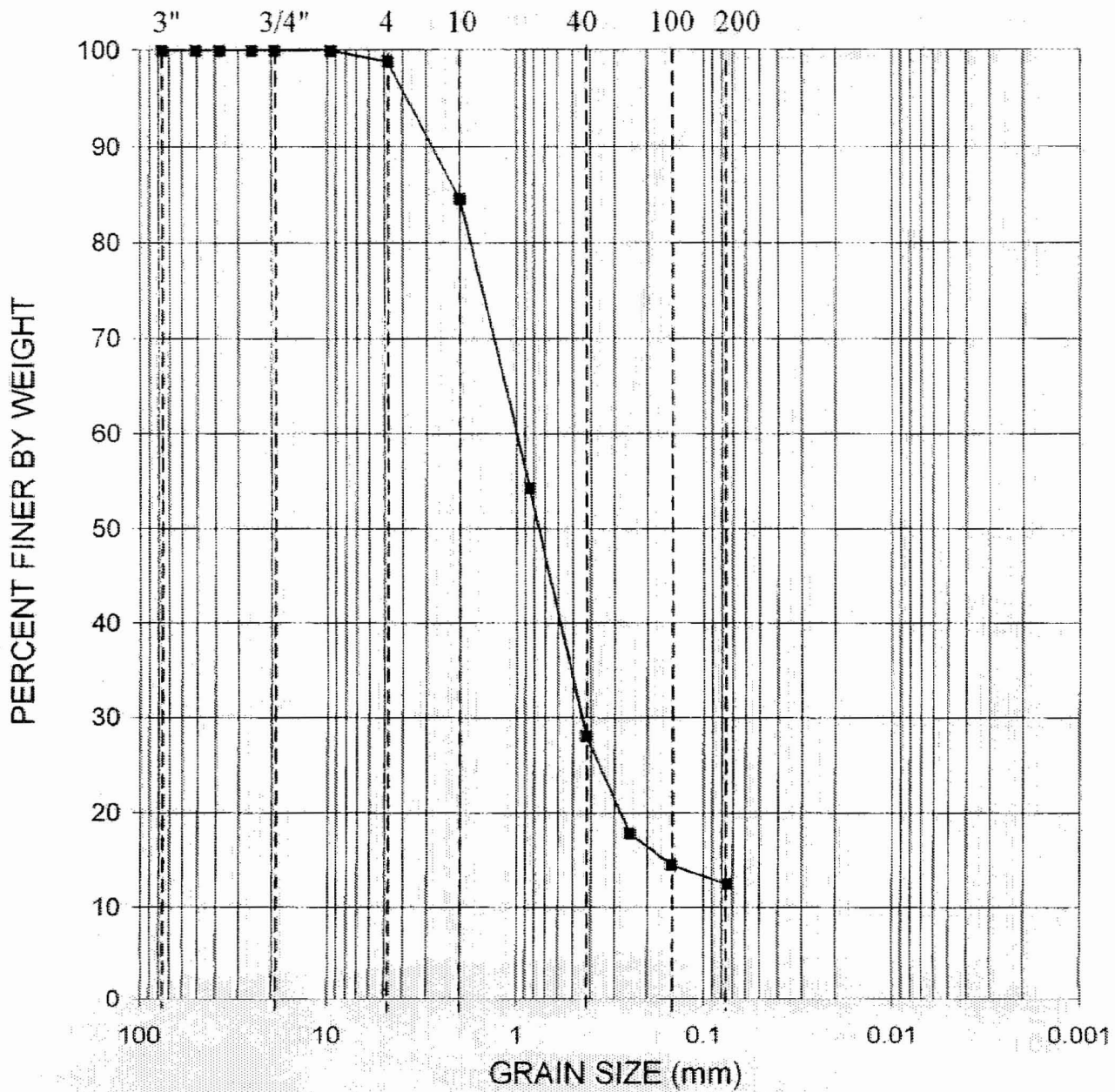
GRAVEL SAND SILT OR CLAY

GRADATION CURVE

ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No. 06120048.00		Date: 9/15/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI			
B-427	2.5	Silty SAND, dark brown	SM					

U.S. Standard Sieve Nos.



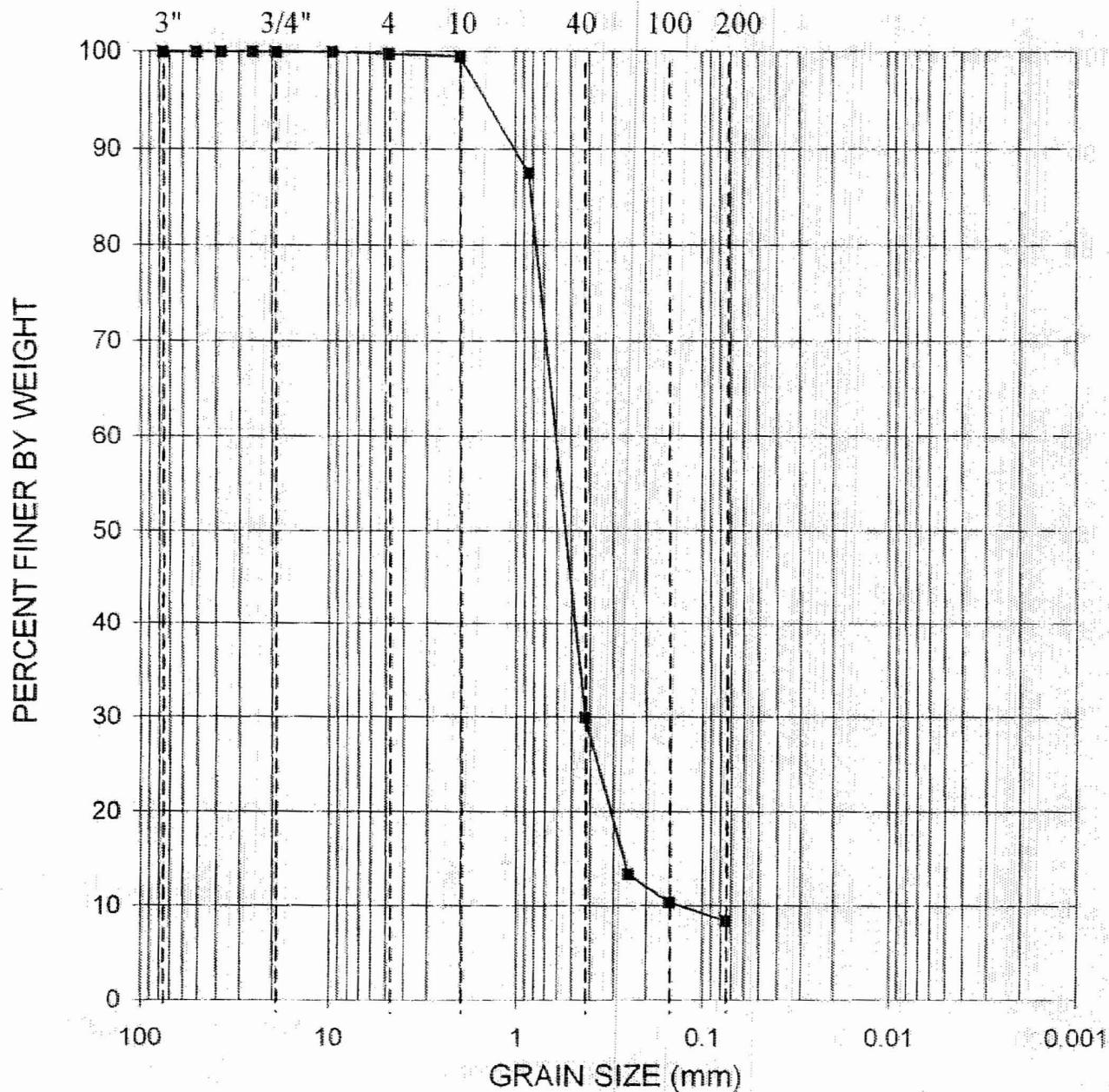
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date	9/18/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-427	18.5	Silty SAND, trace gravel, light brown	SM				

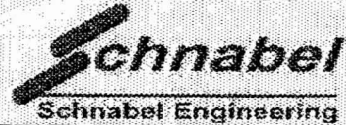
U.S. Standard Sieve Nos.



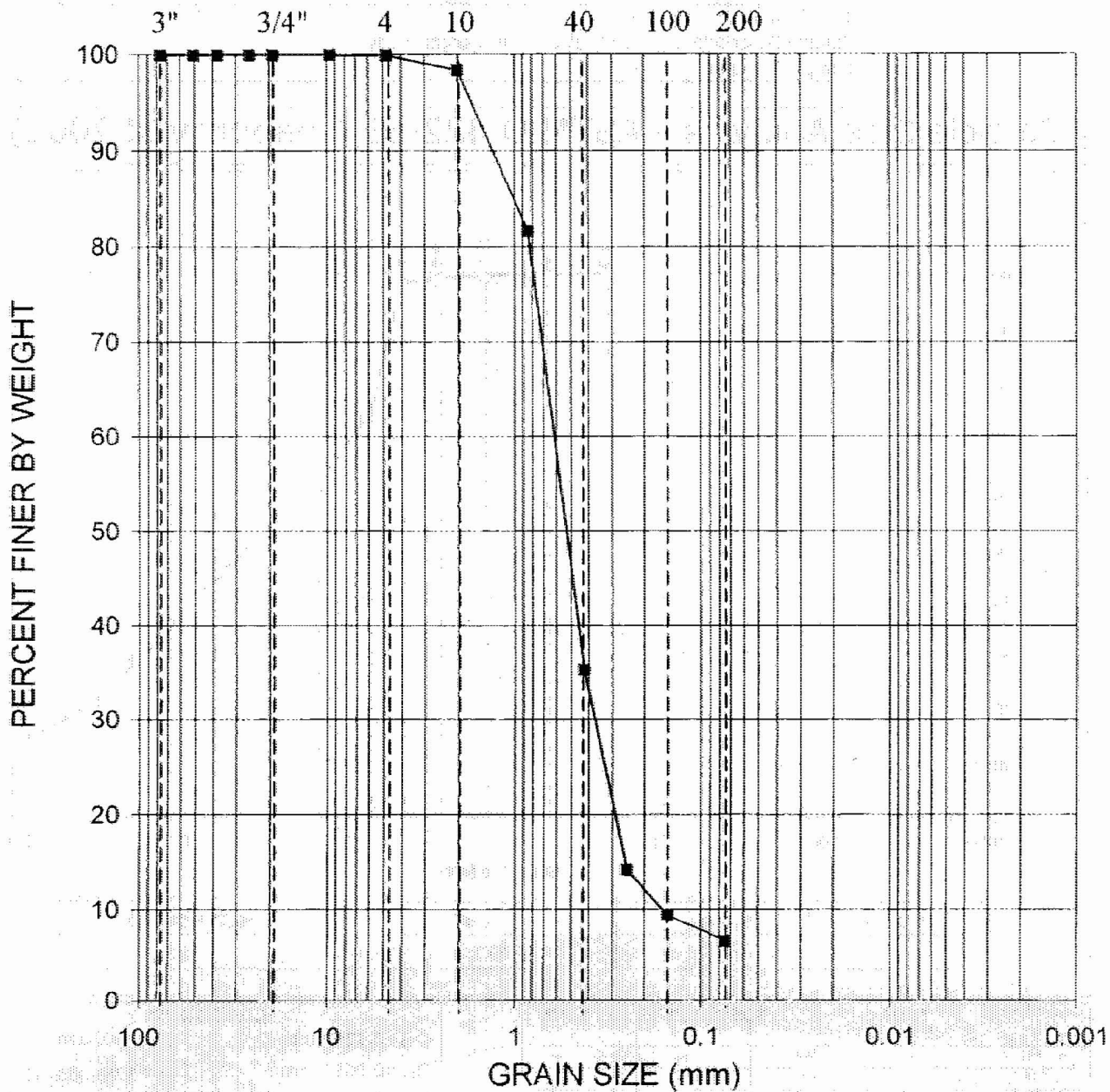
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No.: 06120048.00	Date: 9/15/2006
Boring No.	Depth (ft)	Sample Description	Class LL PI
B-427	28.5	Poorly Graded SAND, with silt, light brown	SP-SM



U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No. 06120048.00	Date: 9/18/2006
Boring No.	Depth (ft)	Sample Description	Class. LL PI
B-427	48.5	Poorly Graded SAND, with silt, brown	SP-SM

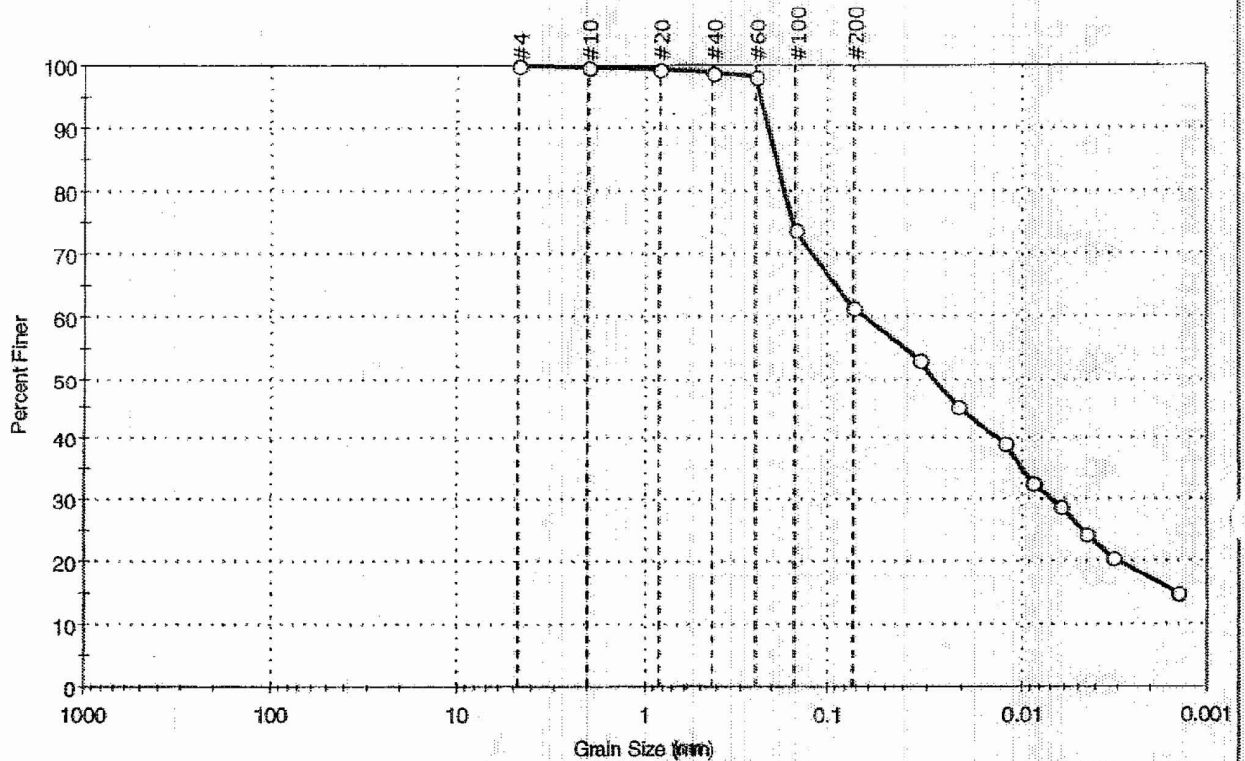


GeoTesting express

a subsidiary of Geocomp Corporation

Client: Schnabel Engineering, Inc.	Project No: GTX-6880
Project: Subsurface Investigation Calvert Cliffs Nuclear PP	
Location: Calvert County, MD	
Boring ID: B-427	Sample Type: tube
Sample ID: S-16	Test Date: 10/11/06
Depth: 63.5-65.5 ft	Test Id: 98601
Tested By: sam	Checked By: mcm
Test Comment: ---	
Sample Description: Moist, black, sandy organic clay	
Sample Comment: ---	

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	38.7	61.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	99		
#40	0.42	99		
#60	0.25	98		
#100	0.15	74		
#200	0.074	61		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0335	53		
---	0.0212	45		
---	0.0125	39		
---	0.0088	33		
---	0.0063	29		
---	0.0045	24		
---	0.0032	21		
---	0.0014	15		

Coefficients	
D ₈₅ = 0.1896 mm	D ₃₀ = 0.0070 mm
D ₆₀ = 0.0654 mm	D ₁₅ = N/A
D ₅₀ = 0.0280 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification	
ASTM	Sandy organic clay (OH)
AASHTO	Clayey Soils (A-7-6 (25))

Sample/Test Description	
Sand/Gravel Particle Shape	: ---
Sand/Gravel Hardness	: ---