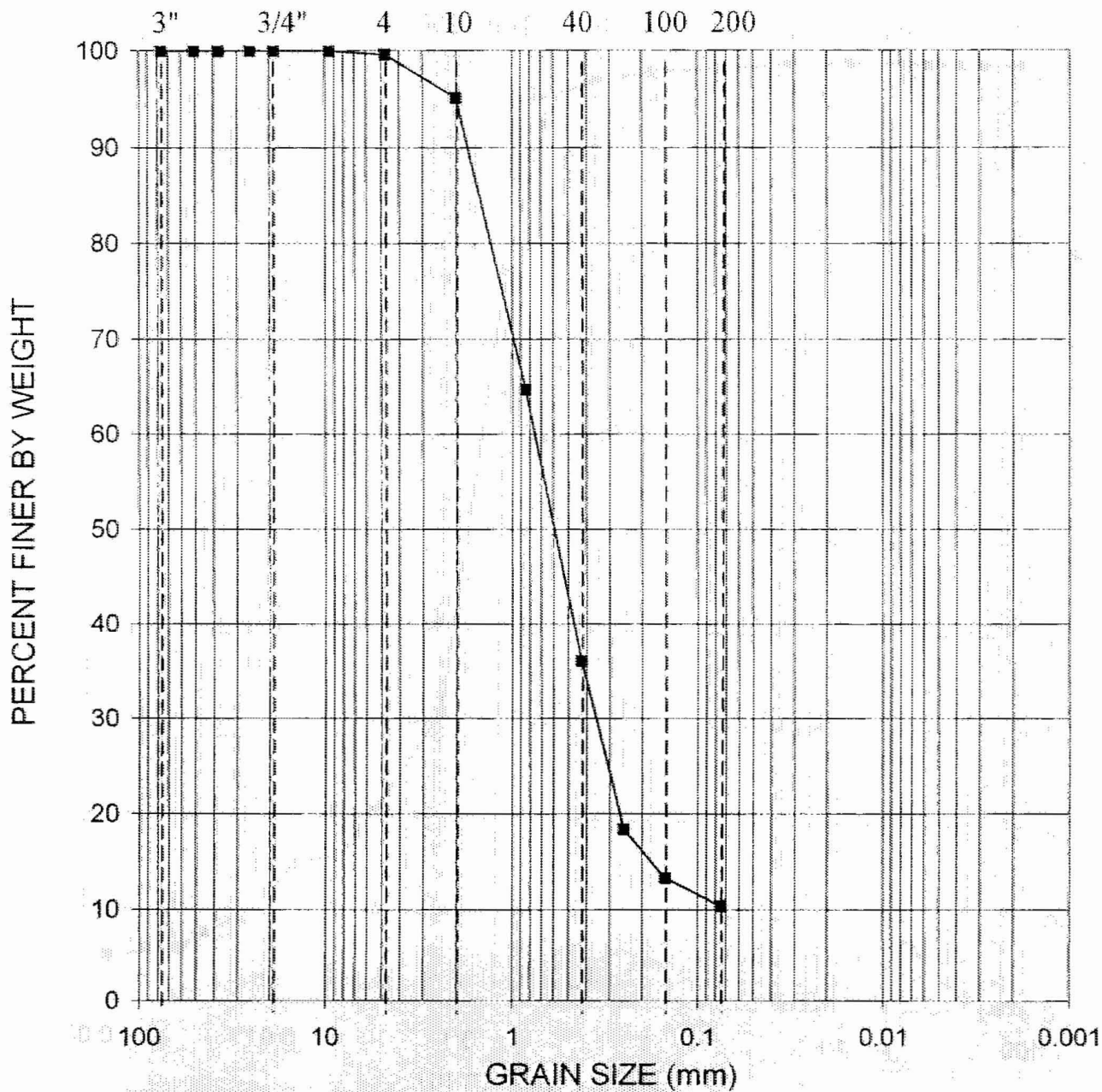



U.S. Standard Sieve Nos.

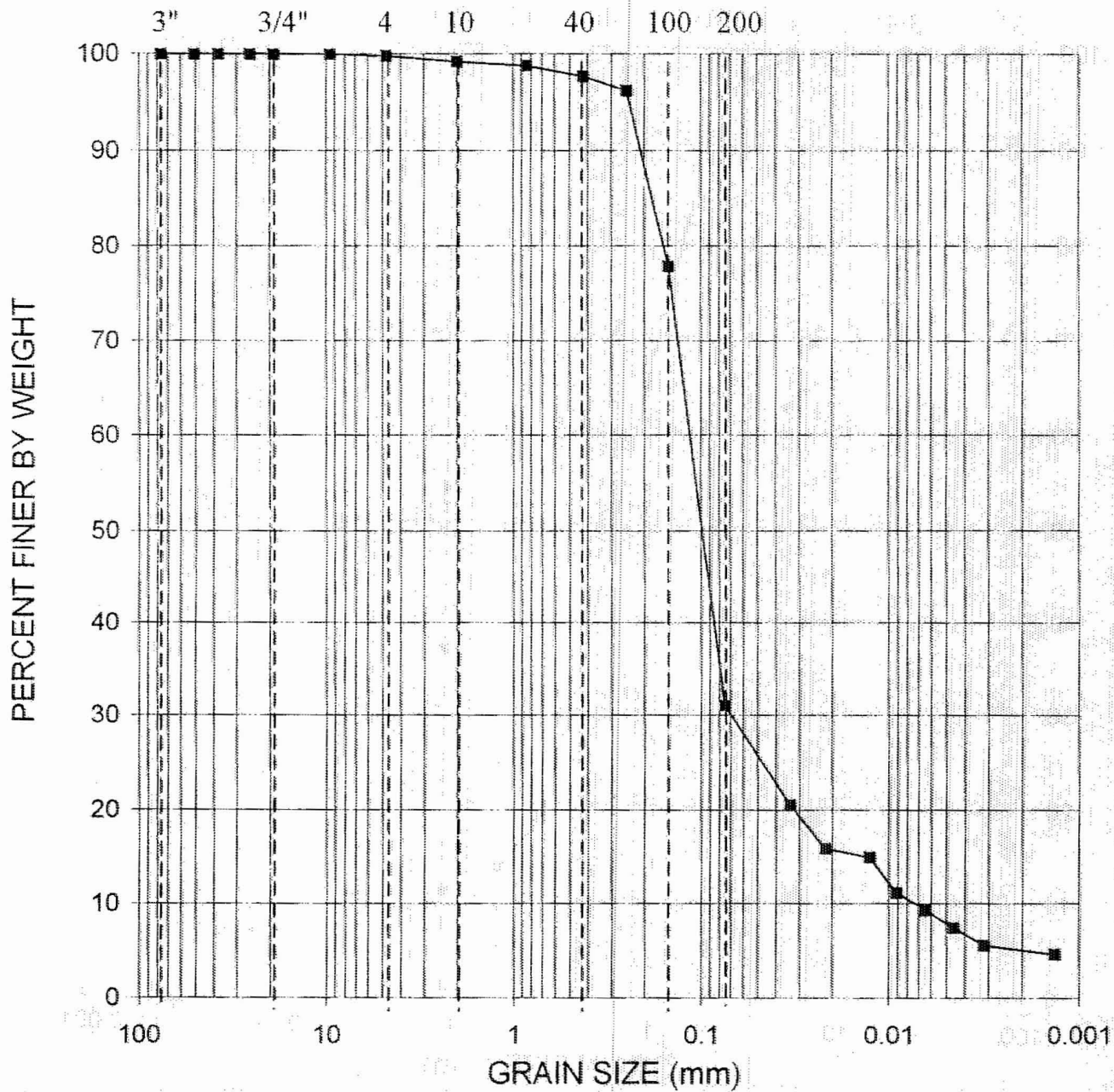


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	10/4/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-415	28.5	Poorly Graded SAND, with silt, light brown	SP-SM				

U.S. Standard Sieve Nos.

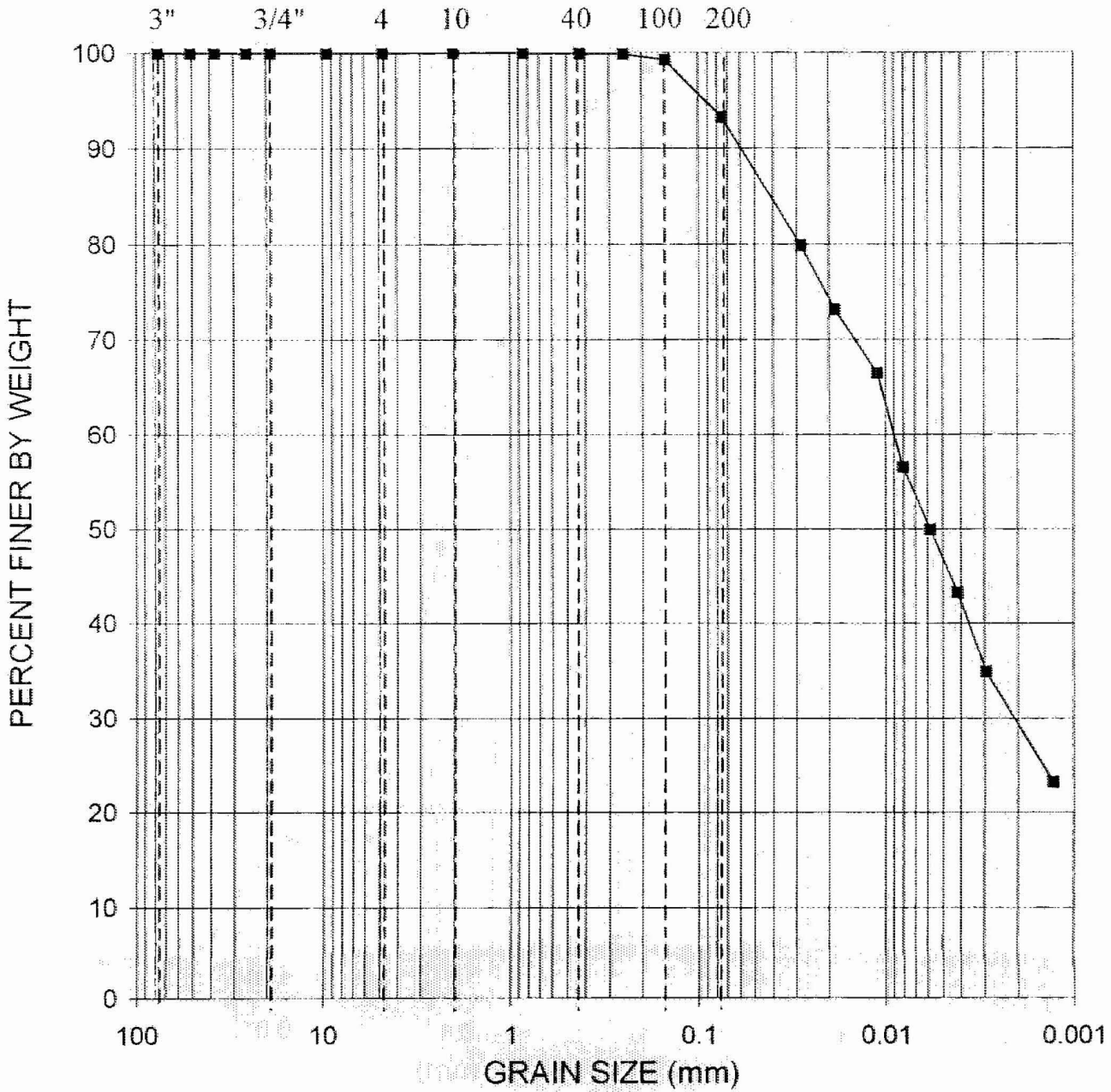


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

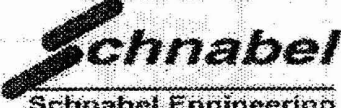
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	10/11/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI	
B-415	43.5	Silty SAND, dark gray	SM	26	4	

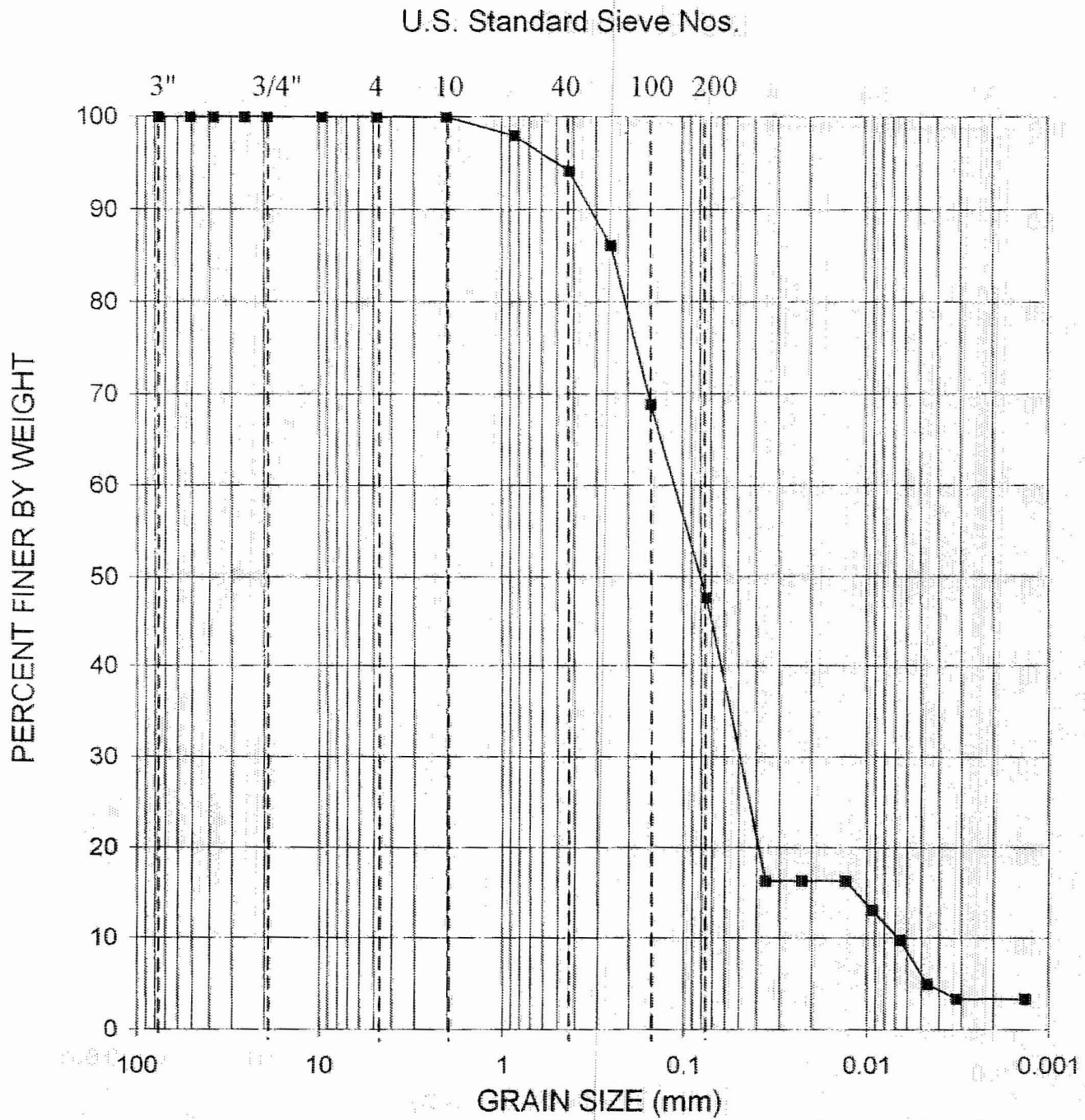
U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

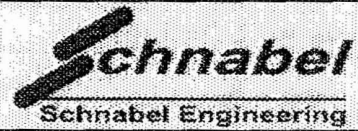
Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.: 06120048.00		Date: 10/18/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI			
B-415	58.5	FAT CLAY, trace sand, dark gray	CH	61	40			



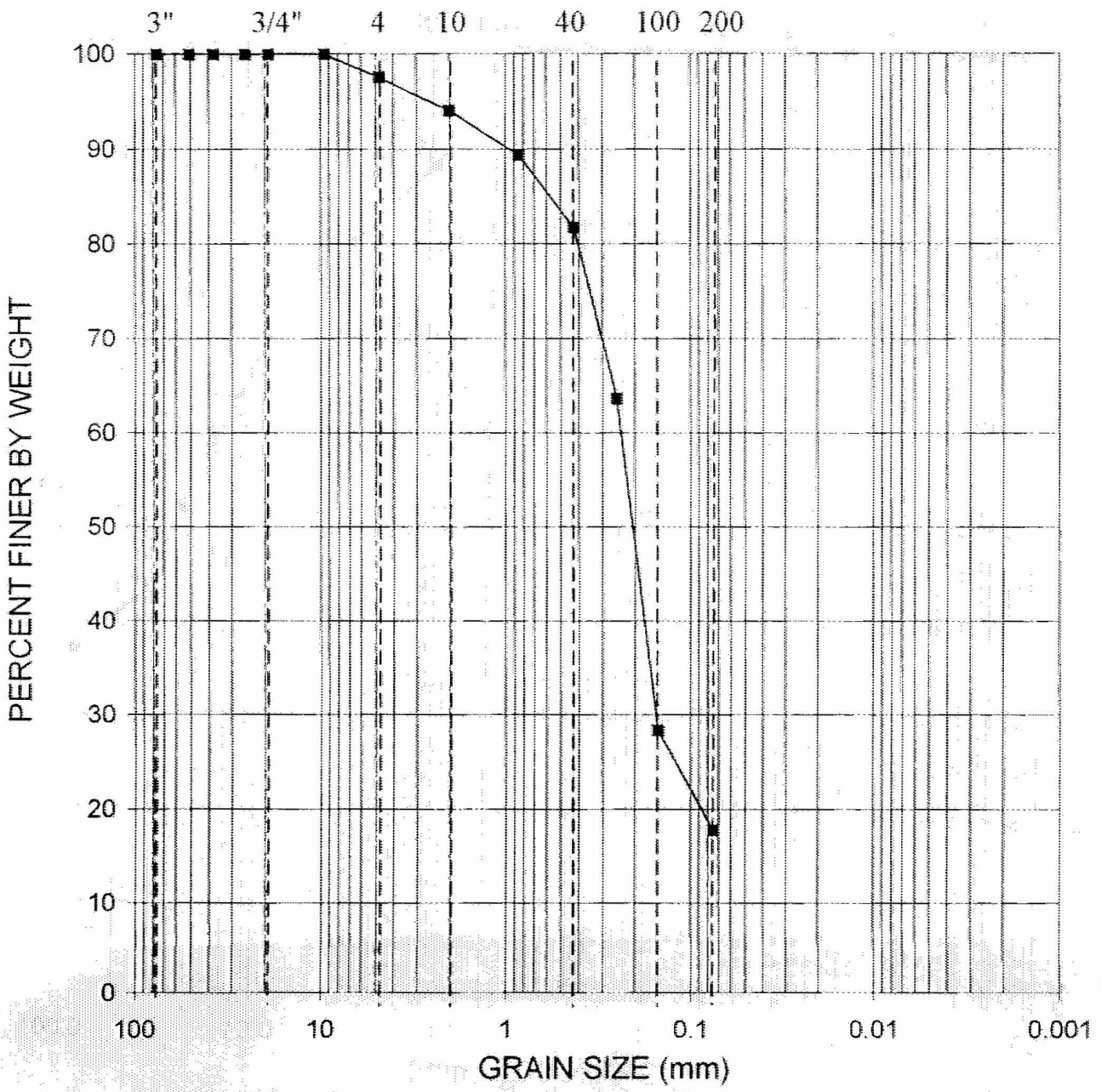
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No.: 06120048.00	Date: 10/11/2006
Boring No.	Depth (ft)	Sample Description	Class. LL PI
B-415	73.5	Silty SAND, dark gray	SM 40 10



U.S. Standard Sieve Nos.



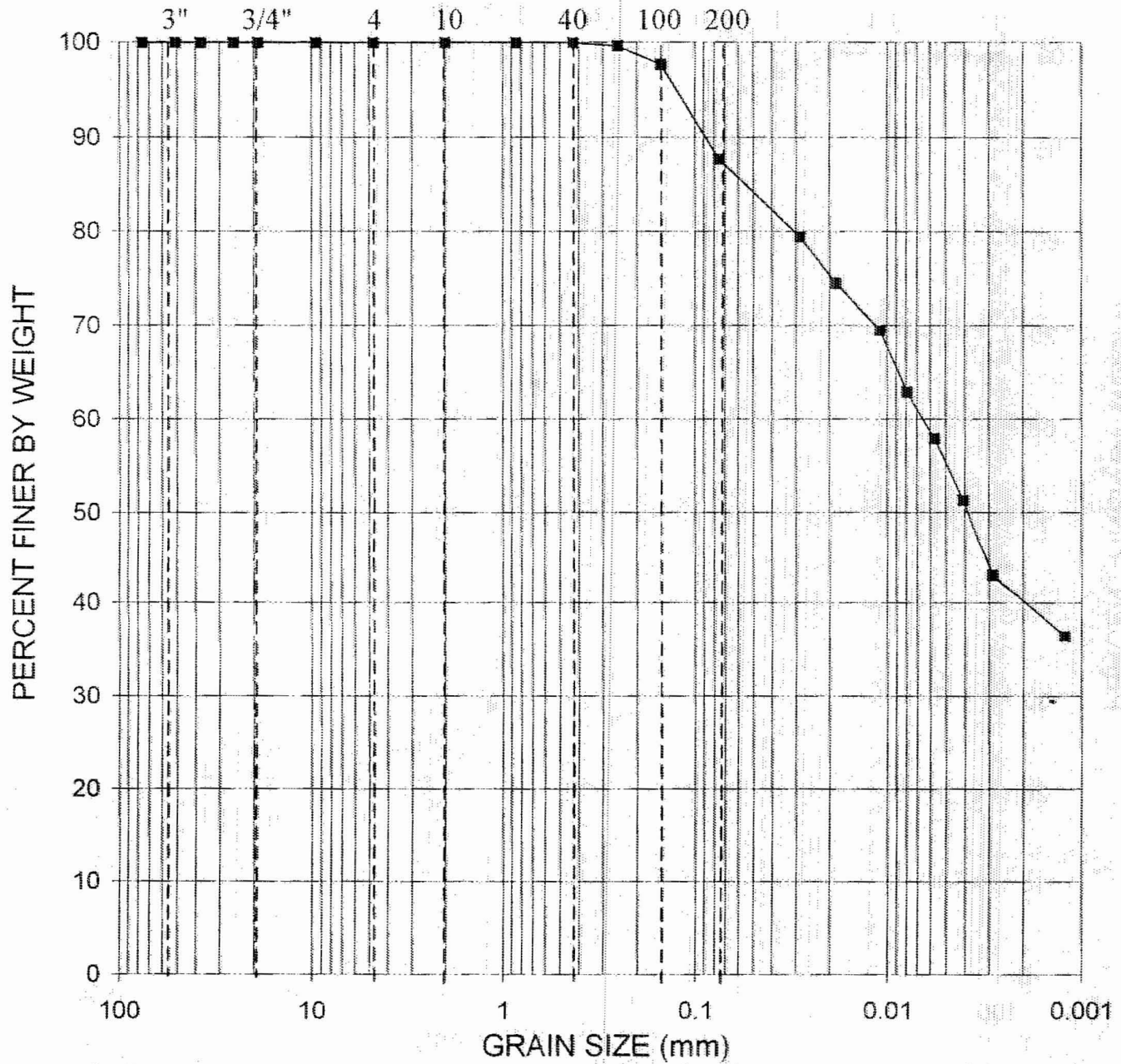
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No.: 06120048.00	Date: 10/4/2006		
Boring No.	Depth (ft)	Sample Description	Class	LL	PI
B-415	83.5	Silty SAND, trace shells, green	SM		




U.S. Standard Sieve Nos.



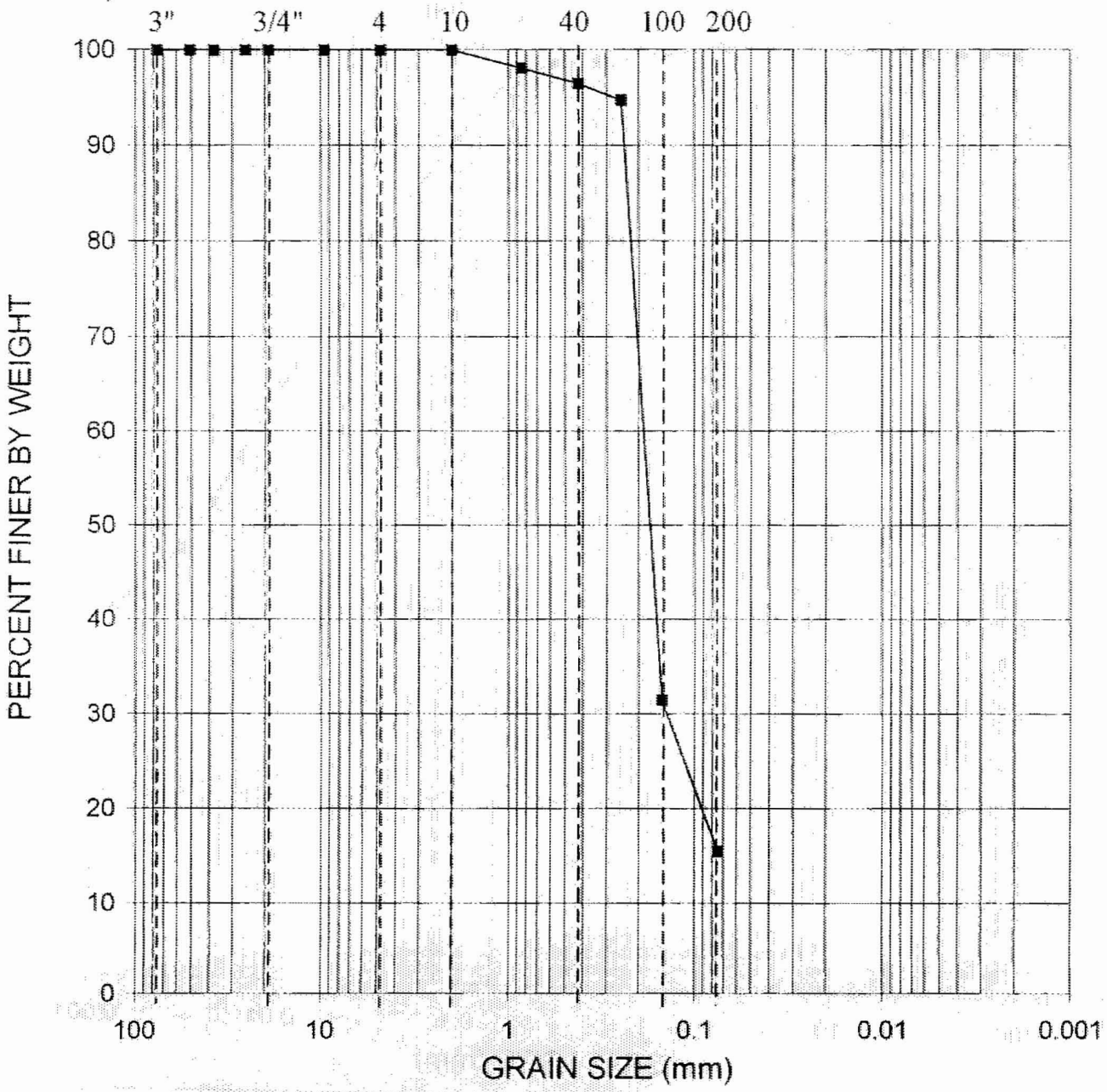
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE

ASTM D422


Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	10/12/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-416	28.5	FAT CLAY, trace sand, dark gray	CH	58	41		

U.S. Standard Sieve Nos.

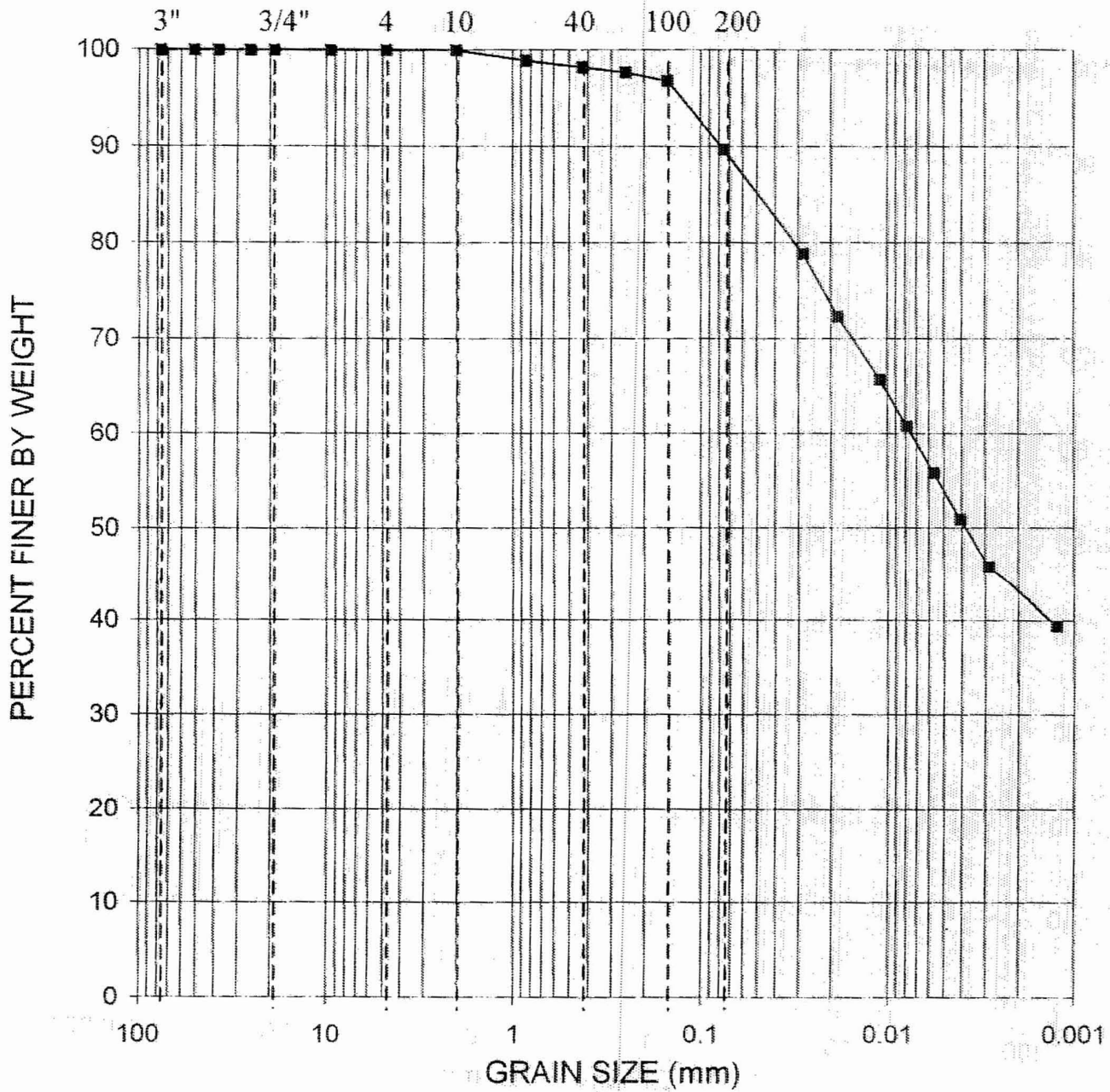


GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No. 06120048.00		Date: 10/3/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-416	58.5	Silty SAND, dark gray	SM				

U.S. Standard Sieve Nos.



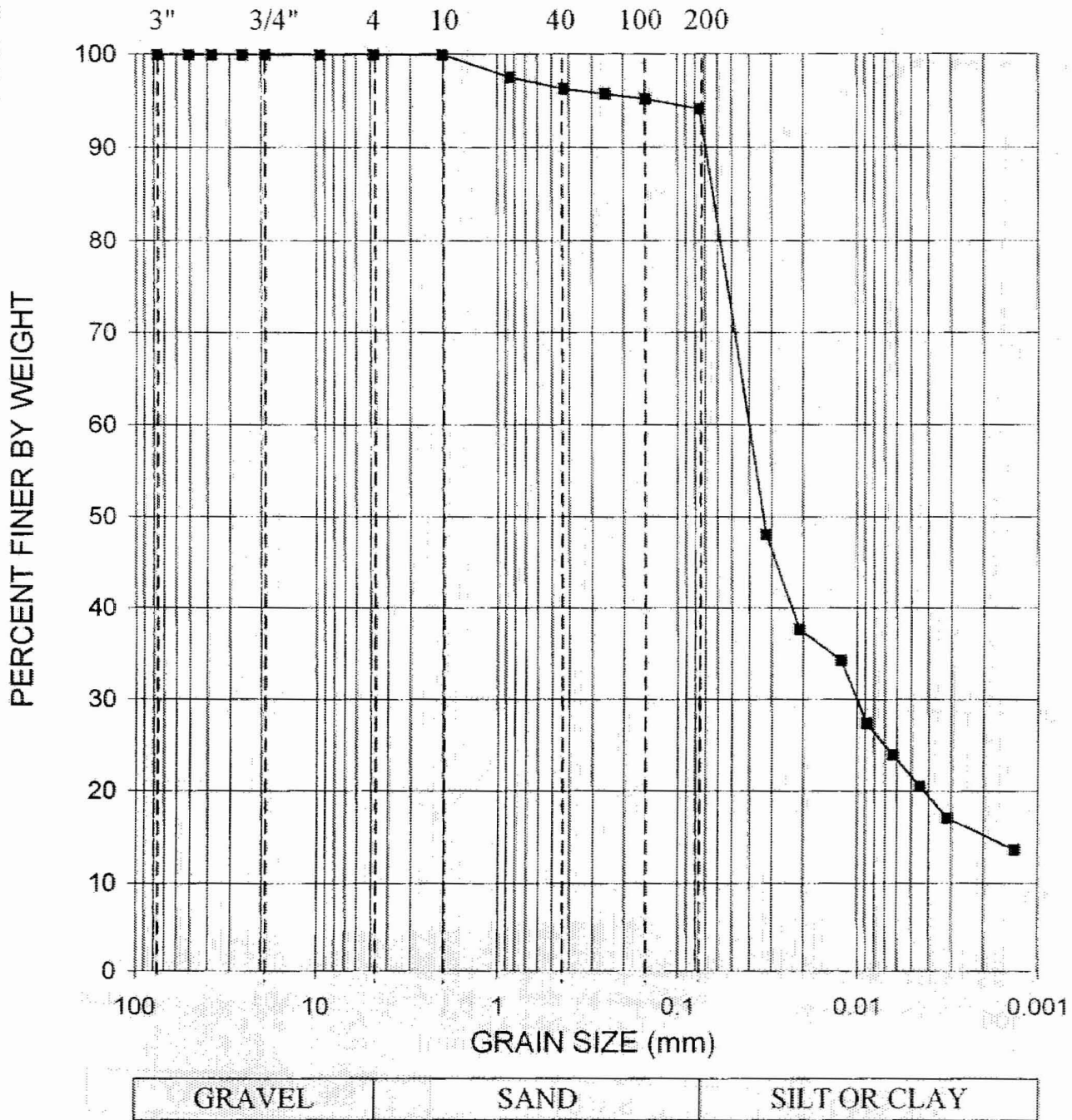
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.: 06120048.00	Date: 9/21/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-420	5.0	FAT CLAY, trace sand, gray-brown	CH	64	42



U.S. Standard Sieve Nos.



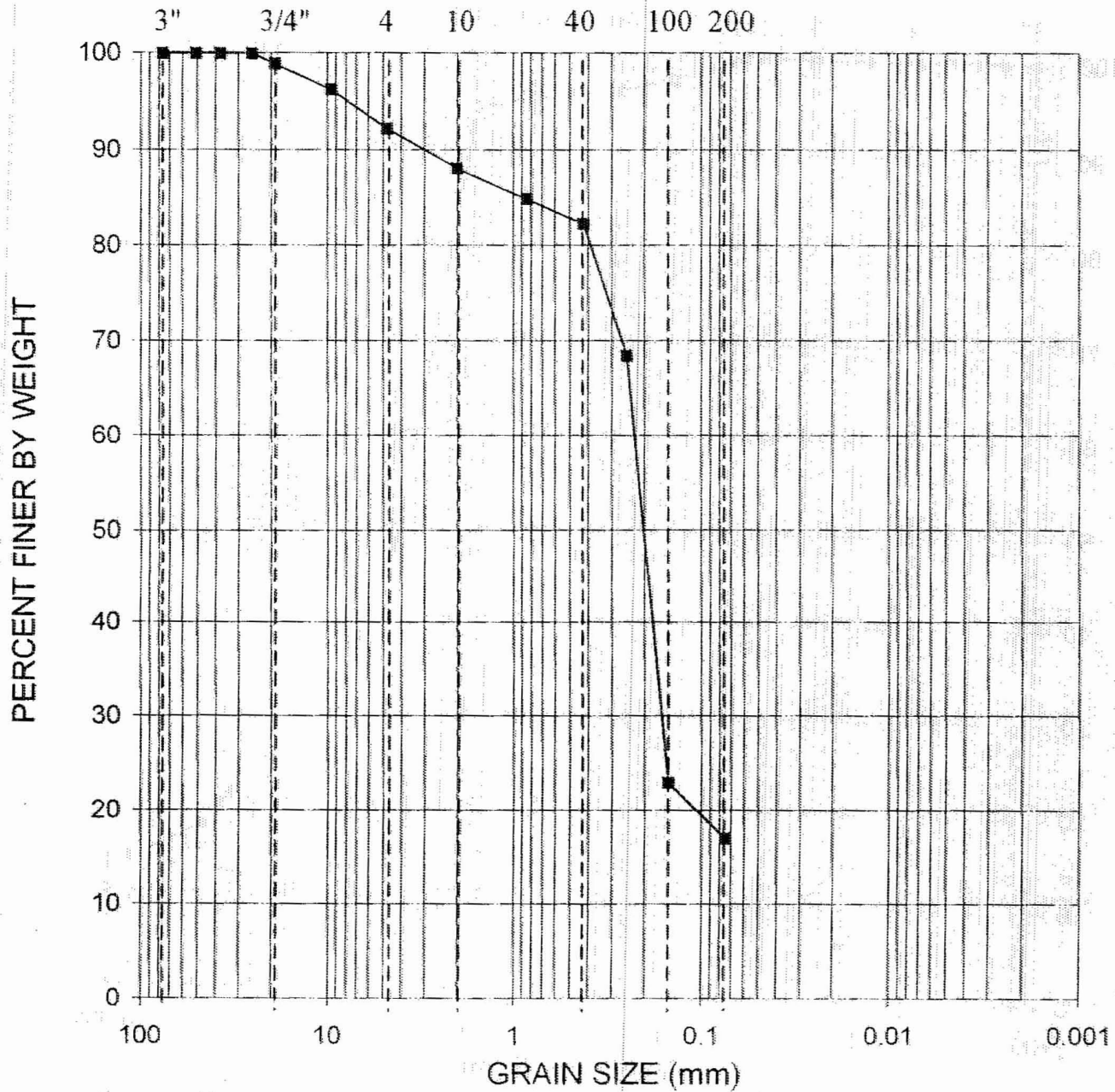
GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No. 106120048.00	Date: 9/21/2006
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Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-420	13.5	FAT CLAY, trace sand, dark gray	CH	74	43



U.S. Standard Sieve Nos.



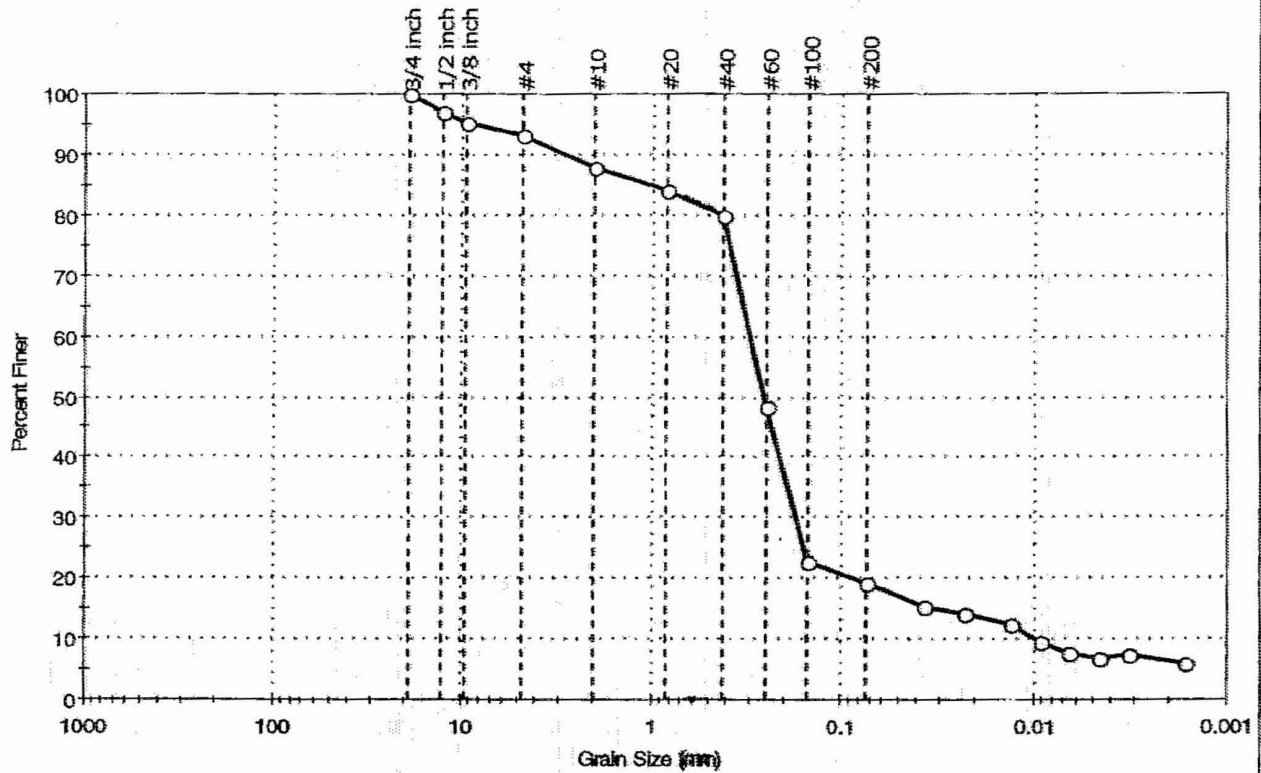
GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 9/13/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-420	43.5	Silty SAND, trace shells, gray	SM				

Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Project No: GTX-6880
Location: Calvert County, MD	Boring ID: B-420	Sample Type: tube
Sample ID: S-16	Test Date: 09/12/06	Tested By: sam
Depth: 63.5-65.5 ft	Test Id: 95843	Checked By: mcm
Test Comment: ---		
Sample Description: Moist, olive gray clayey sand		
Sample Comment: Sample contains shell fragments		

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	6.7	74.2	19.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/4 inch	19.00	100		
1/2 inch	12.70	97		
3/8 inch	9.51	95		
#4	4.75	93		
#10	2.00	88		
#20	0.84	84		
#40	0.42	80		
#60	0.25	48		
#100	0.15	23		
#200	0.074	19		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0367	15		
---	0.0228	14		
---	0.0131	12		
---	0.0093	9		
---	0.0065	8		
---	0.0046	7		
---	0.0032	7		
---	0.0016	6		

Coefficients

D ₈₅ = 1.0473 mm	D ₃₀ = 0.1724 mm
D ₆₀ = 0.3025 mm	D ₁₅ = 0.0333 mm
D ₅₀ = 0.2566 mm	D ₁₀ = 0.0099 mm
C _u = N/A	C _c = N/A

Classification

ASTM Clayey sand (SC)

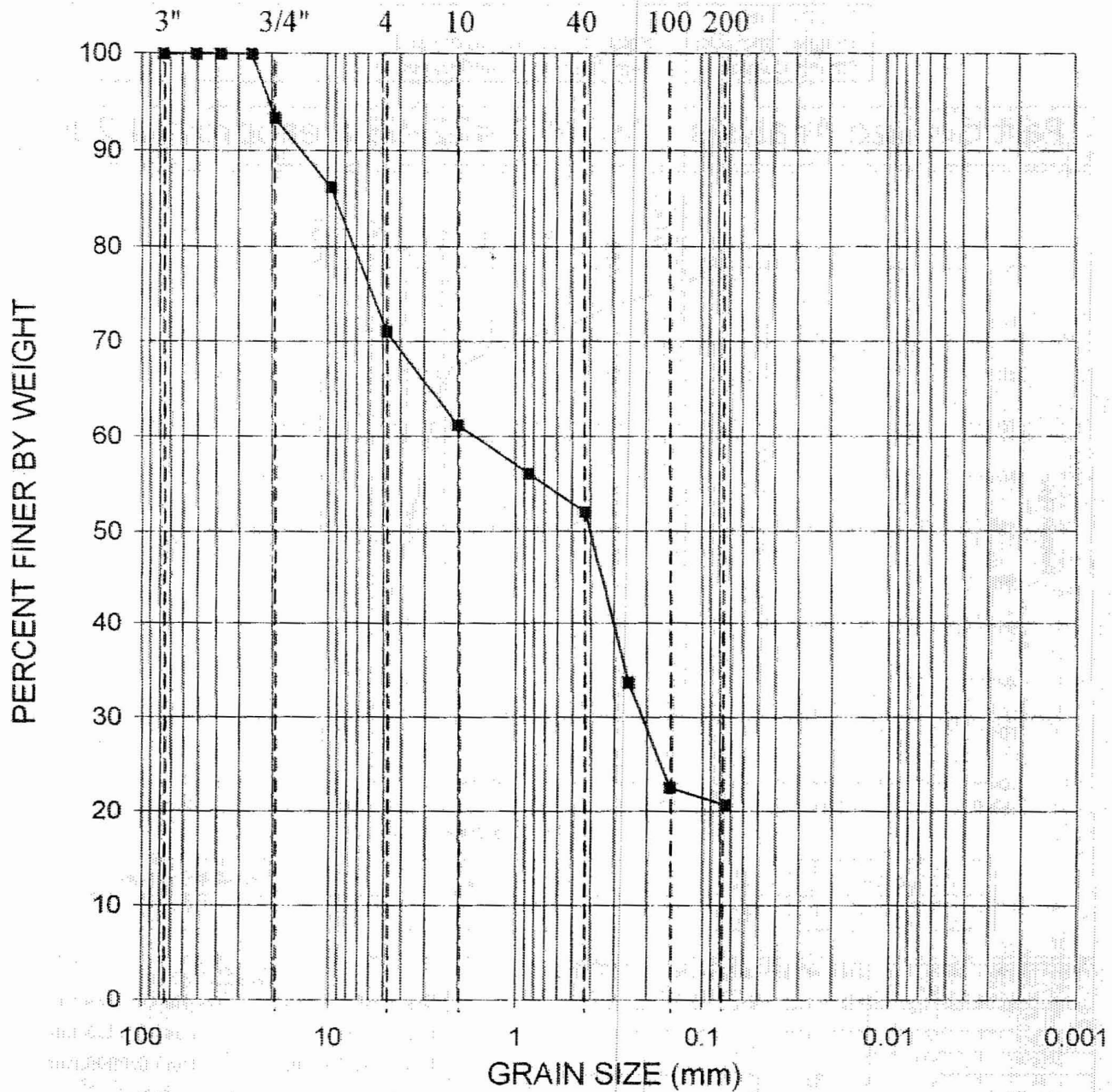
AASHTO Clayey Gravel and Sand (A-2-7 (5))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

U.S. Standard Sieve Nos.



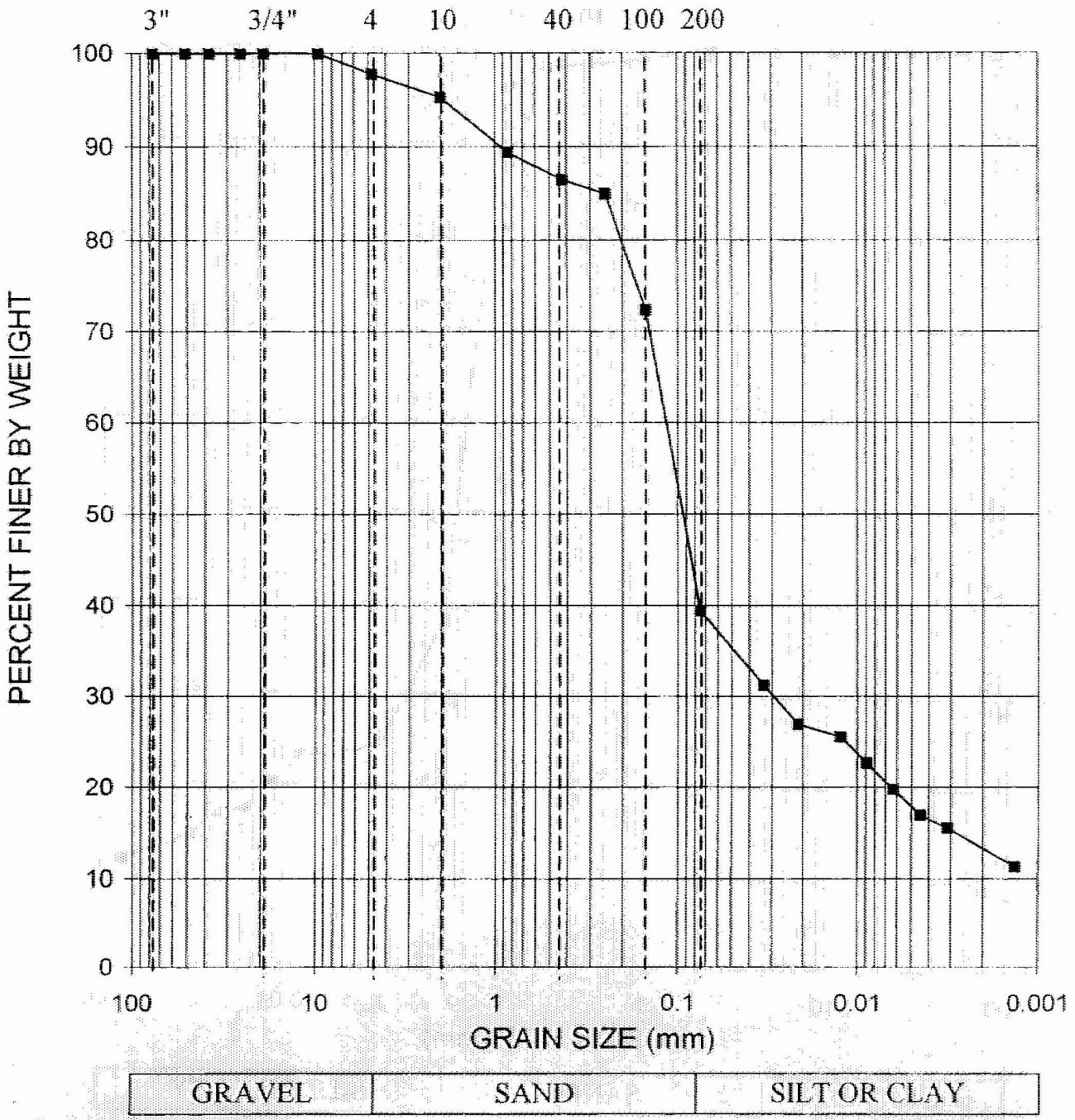
GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00	Date: 9/13/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-420	68.5	Silty SAND, with shells, green	SM		



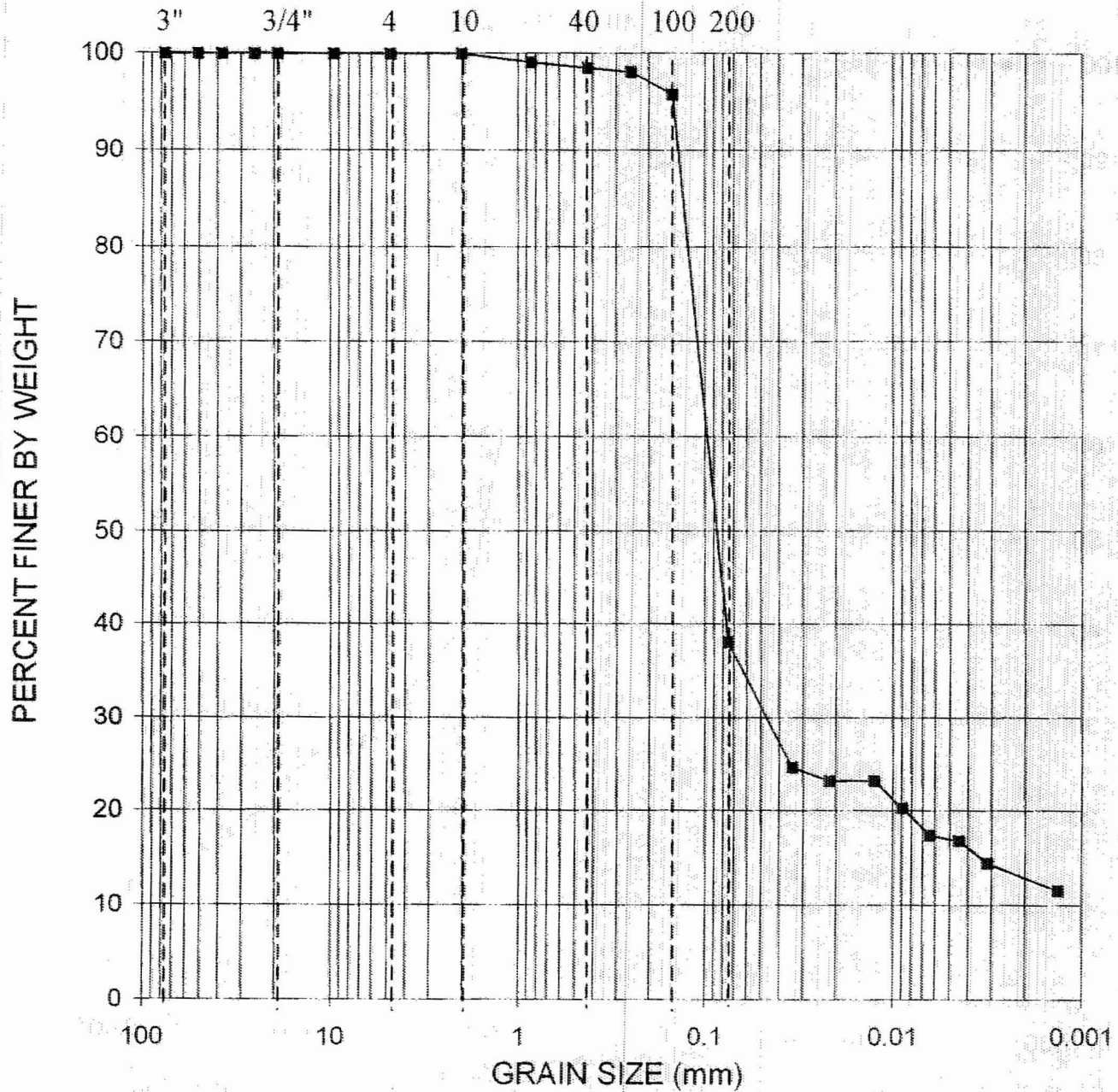
U.S. Standard Sieve Nos.



GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/14/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-420	78.5	Silty SAND, trace shells, green	SM	48	15		

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:	9/21/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-420	103.5	Silty SAND, contains shells, gray	SM	57	15		