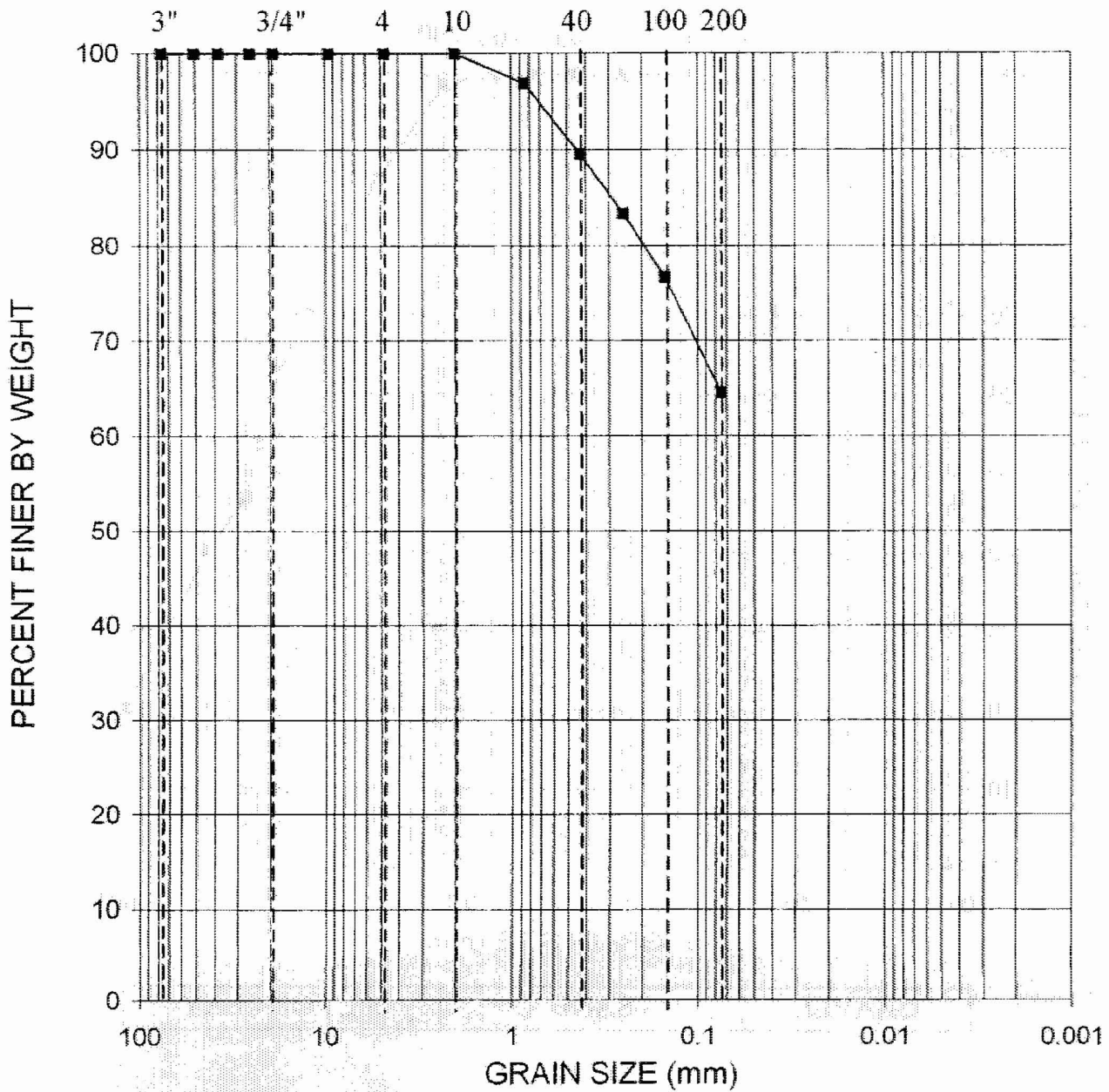



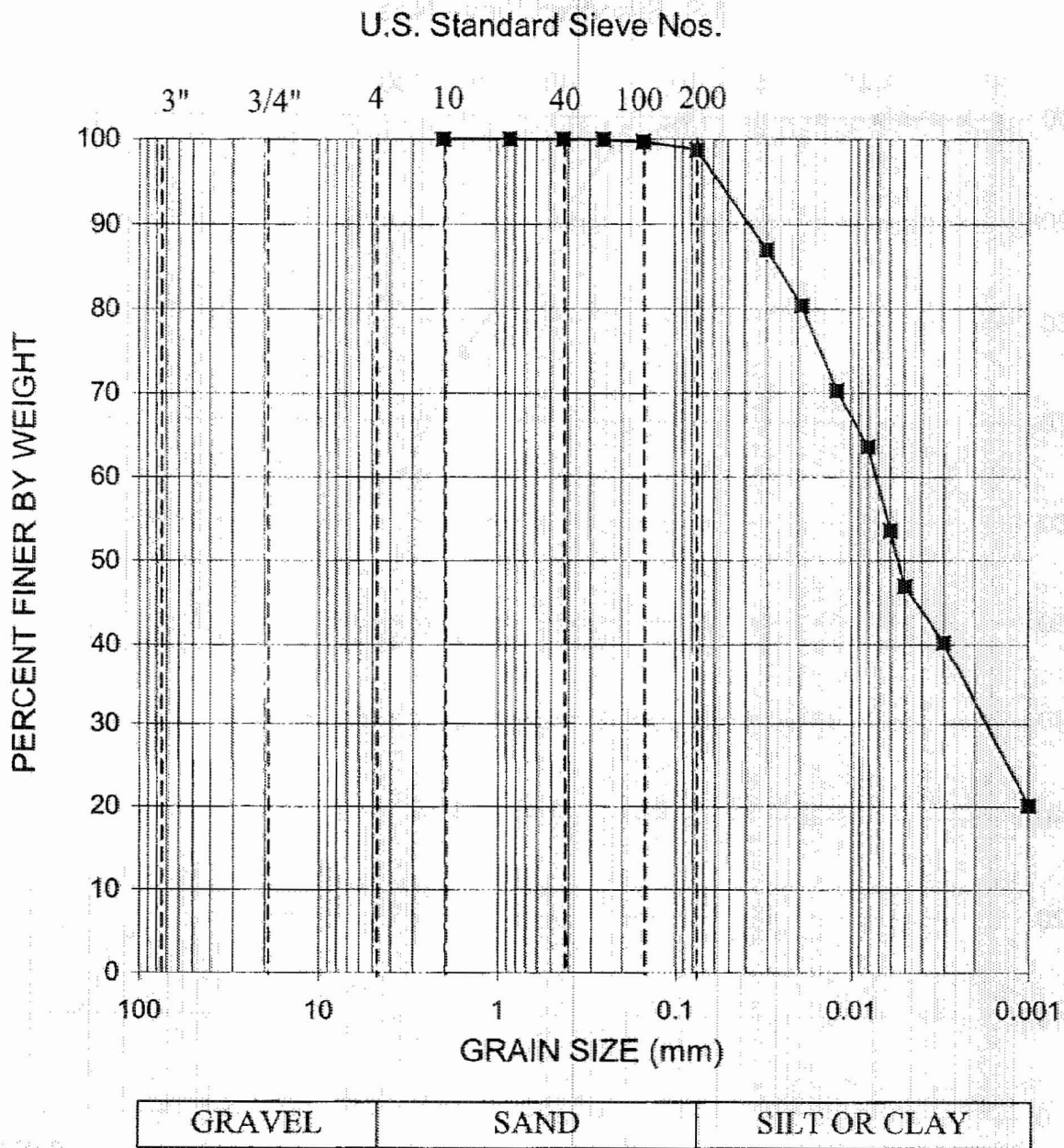
U.S. Standard Sieve Nos.



GRAVEL                      SAND                      SILT OR CLAY

GRADATION CURVE  
ASTM D422

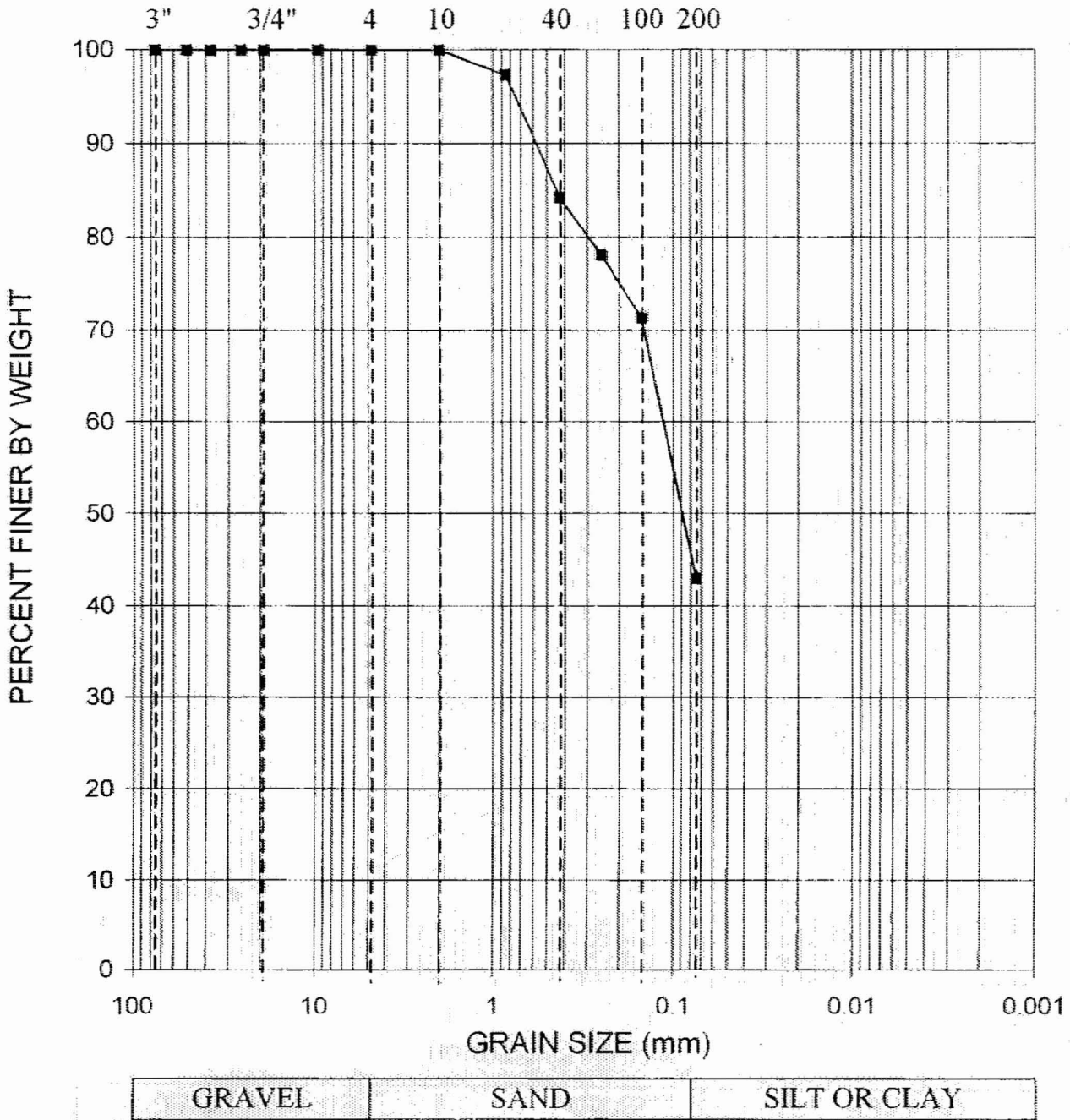
Project:	Constellation Energy Group COLA Project Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No:	06120048.00	Date:	9/11/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	 Schnabel Engineering
B-401	218.5	Sandy ELASTIC SILT, dark green	MH			



GRAVEL	SAND	SILT OR CLAY
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Key	Sample	Depth(ft.)	Sample Description	Class.	LL	PI	<b>Schnabel Engineering</b> GRADATION CURVES
■	B-401	243.5-244.4	ELASTIC SILT - light gray	MH	140	75	
▲							
●							Project: Calvert Cliffs Nuclear Power Plant  Contract No. 06120048 Date: 11/13/06 Method: ASTM D422

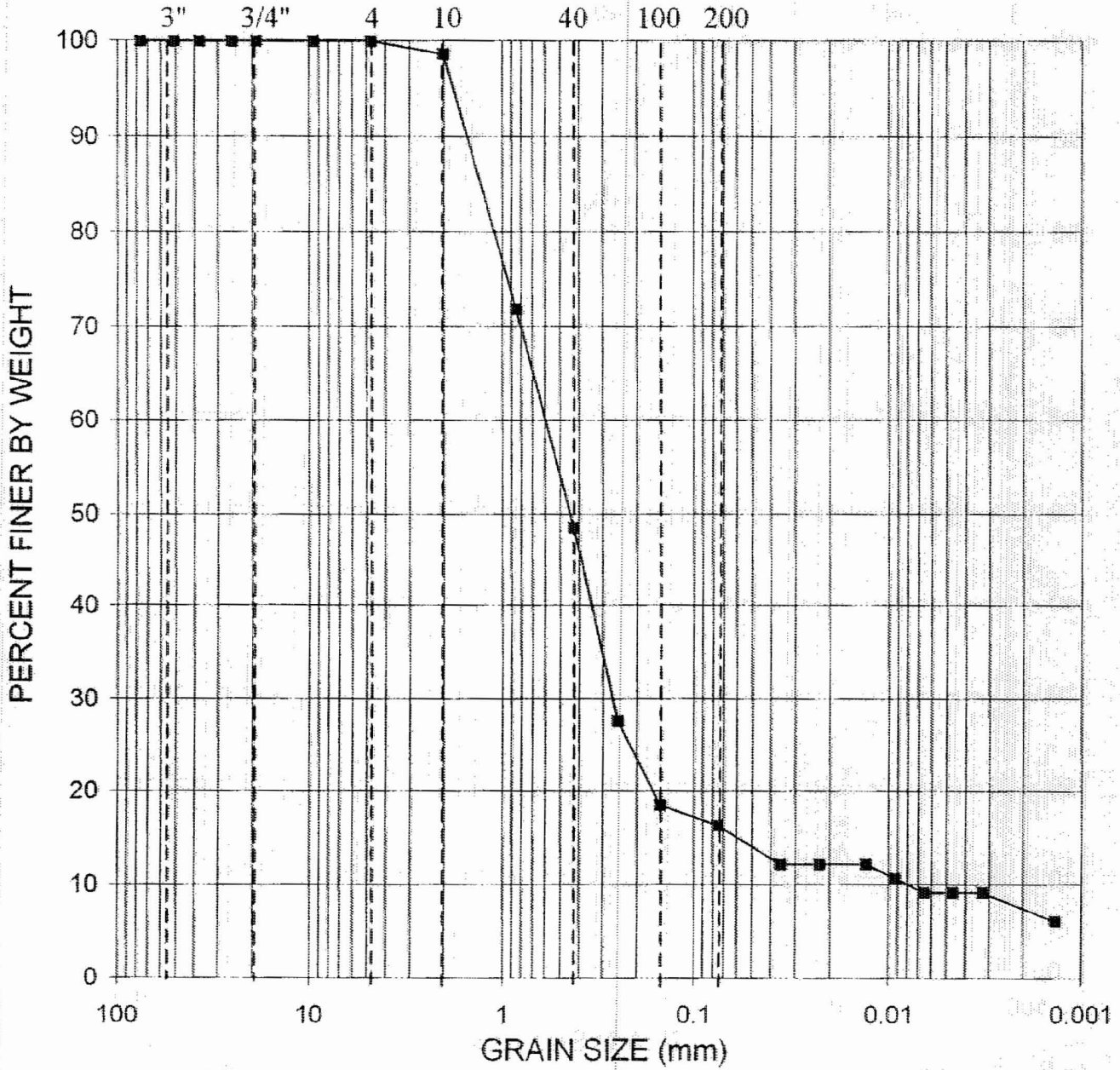
U.S. Standard Sieve Nos.



GRADATION CURVE  
ASTM D422

Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.	06120048.00	Date	9/11/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI	
B-401	268.5	Silty SAND, dark green	SM			

U.S. Standard Sieve Nos.



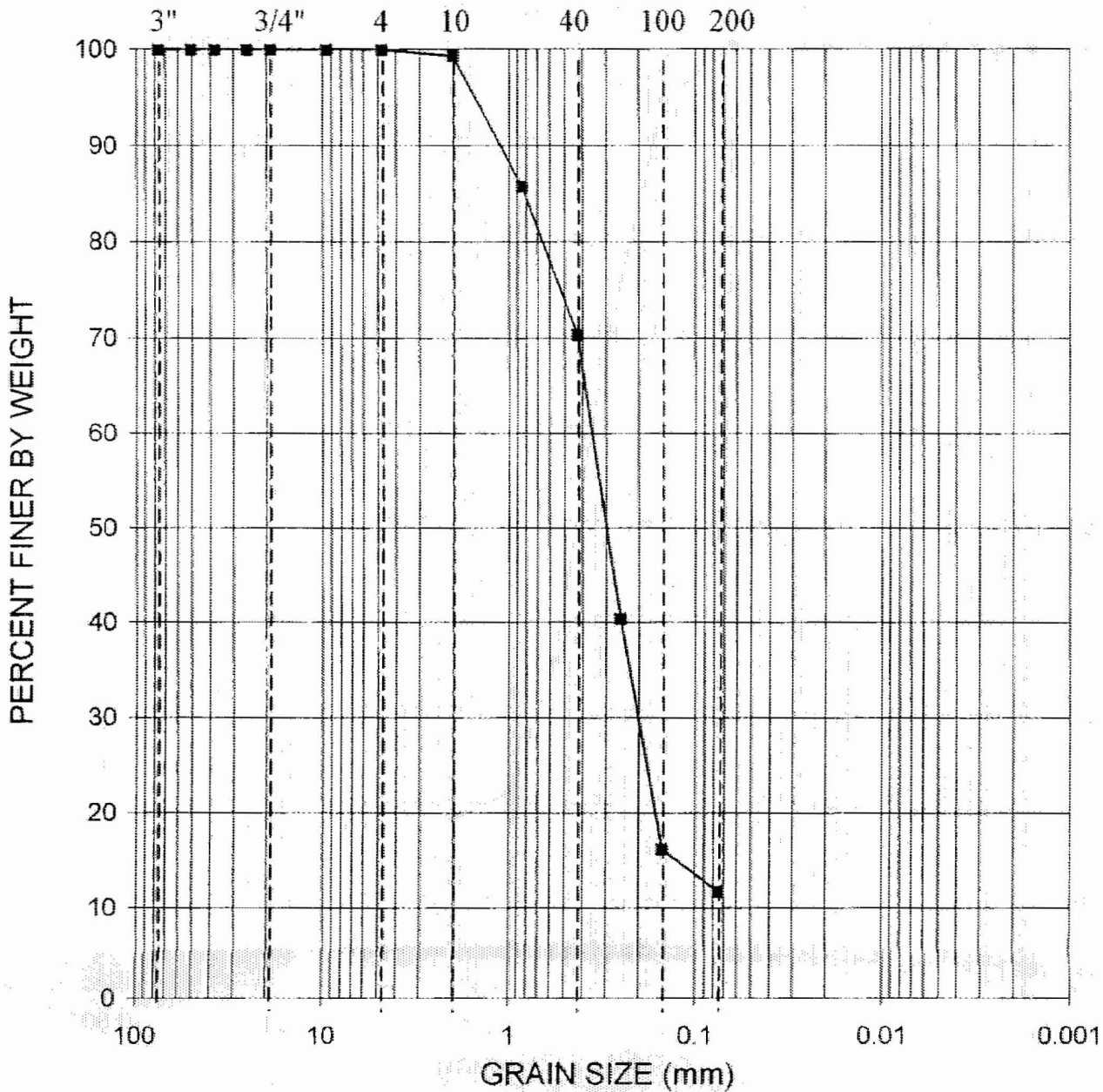
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE  
ASTM D422

Project: Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 9/12/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-401	307.5	Silty SAND, dark green	SM	57	15




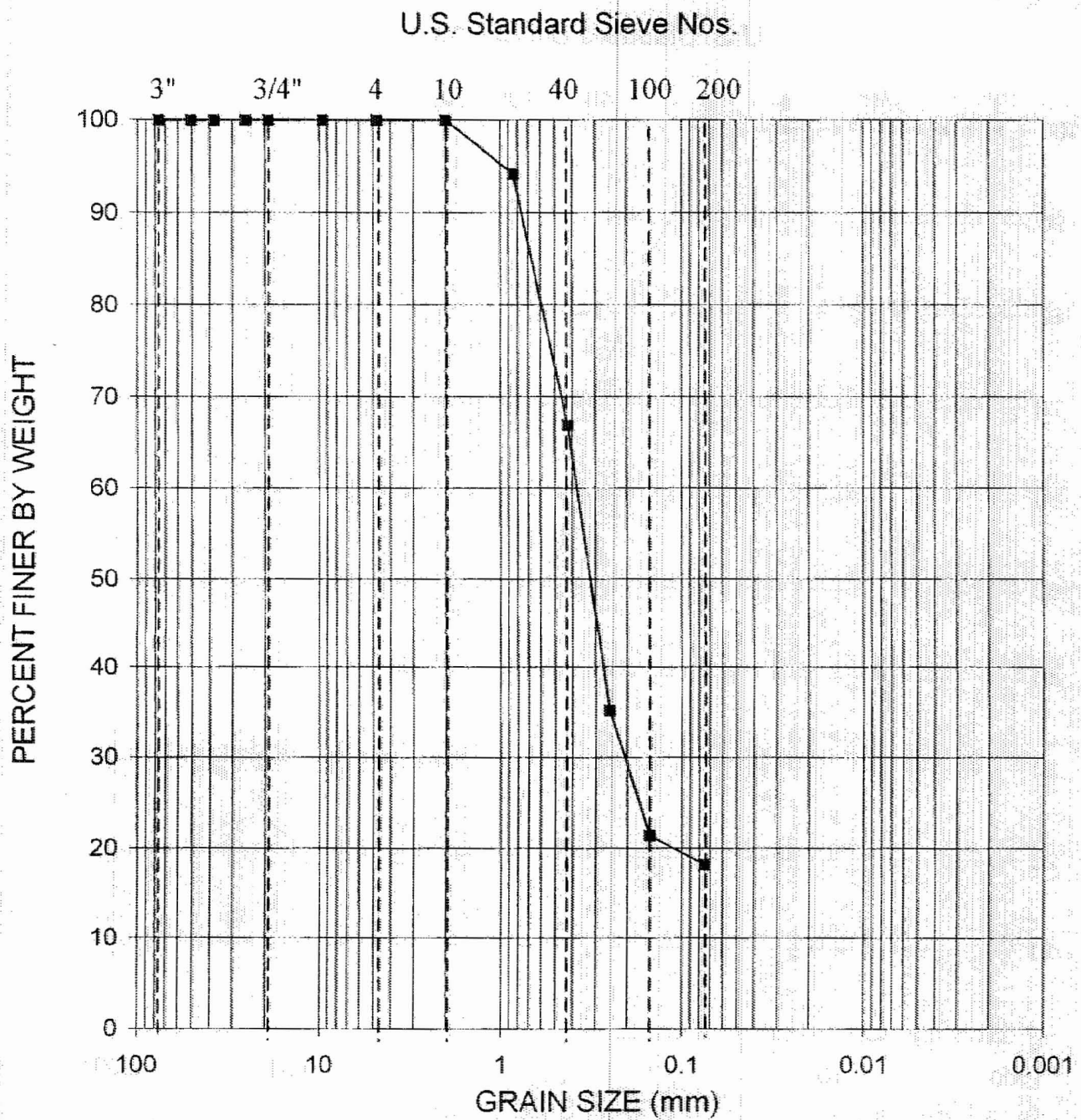
U.S. Standard Sieve Nos.



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: 9/11/2006	
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-401	368.5	Poorly Graded SAND, with silt, black	SP-SM				



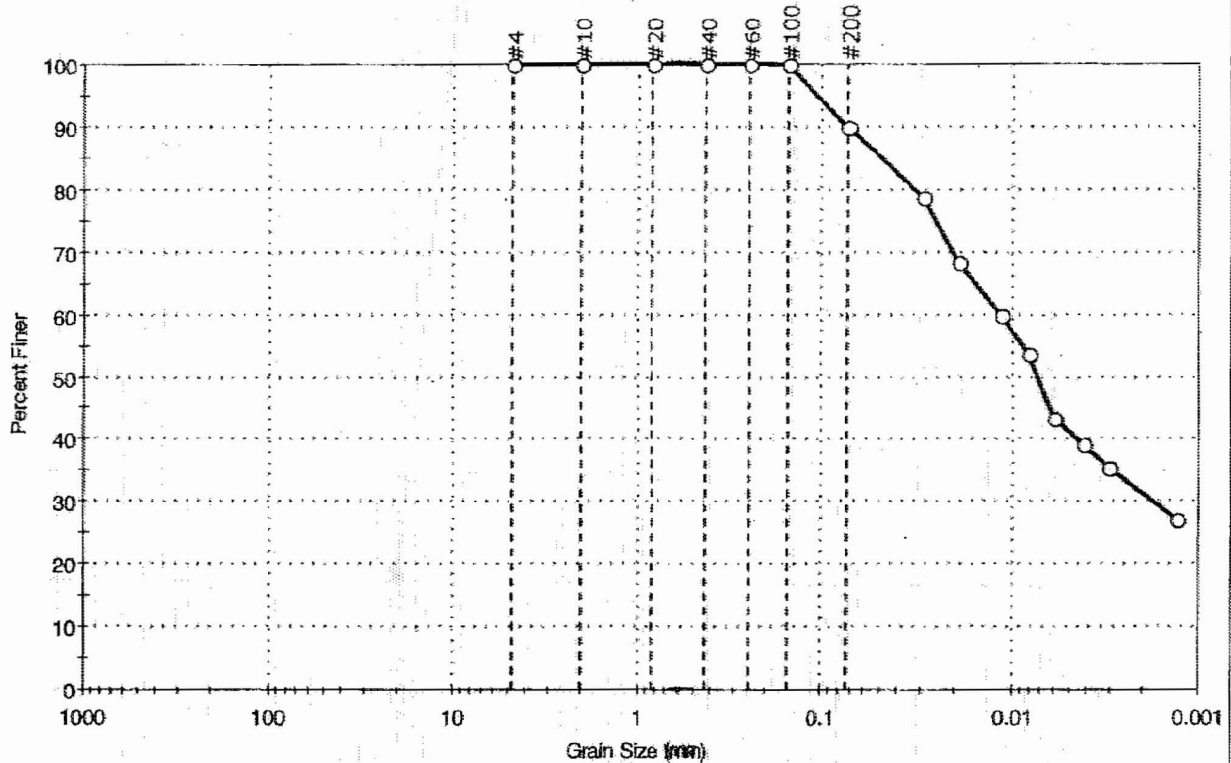
GRAVEL                      SAND                      SILT OR CLAY

**GRADATION CURVE**  
ASTM D422

Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date:	9/11/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-401	400.0	Silty SAND, black	SM				

Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No: GTX-6880
Boring ID: B-406	Sample Type: tube	Tested By: sam	Checked By: mcm
Sample ID: S-16	Test Date: 10/17/06	Test ID: 100603	
Depth: 63.5-65.5 ft			
Test Comment: ---			
Sample Description: Moist, very dark gray organic clay with sand			
Sample Comment:			

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	9.9	90.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.074	90		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0296	79		
---	0.0191	68		
---	0.0113	60		
---	0.0082	54		
---	0.0060	43		
---	0.0042	39		
---	0.0030	35		
---	0.0013	27		

**Coefficients**

D <sub>85</sub> = 0.0492 mm	D <sub>30</sub> = 0.0017 mm
D <sub>60</sub> = 0.0113 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.0073 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

**Classification**

ASTM organic clay (OH)

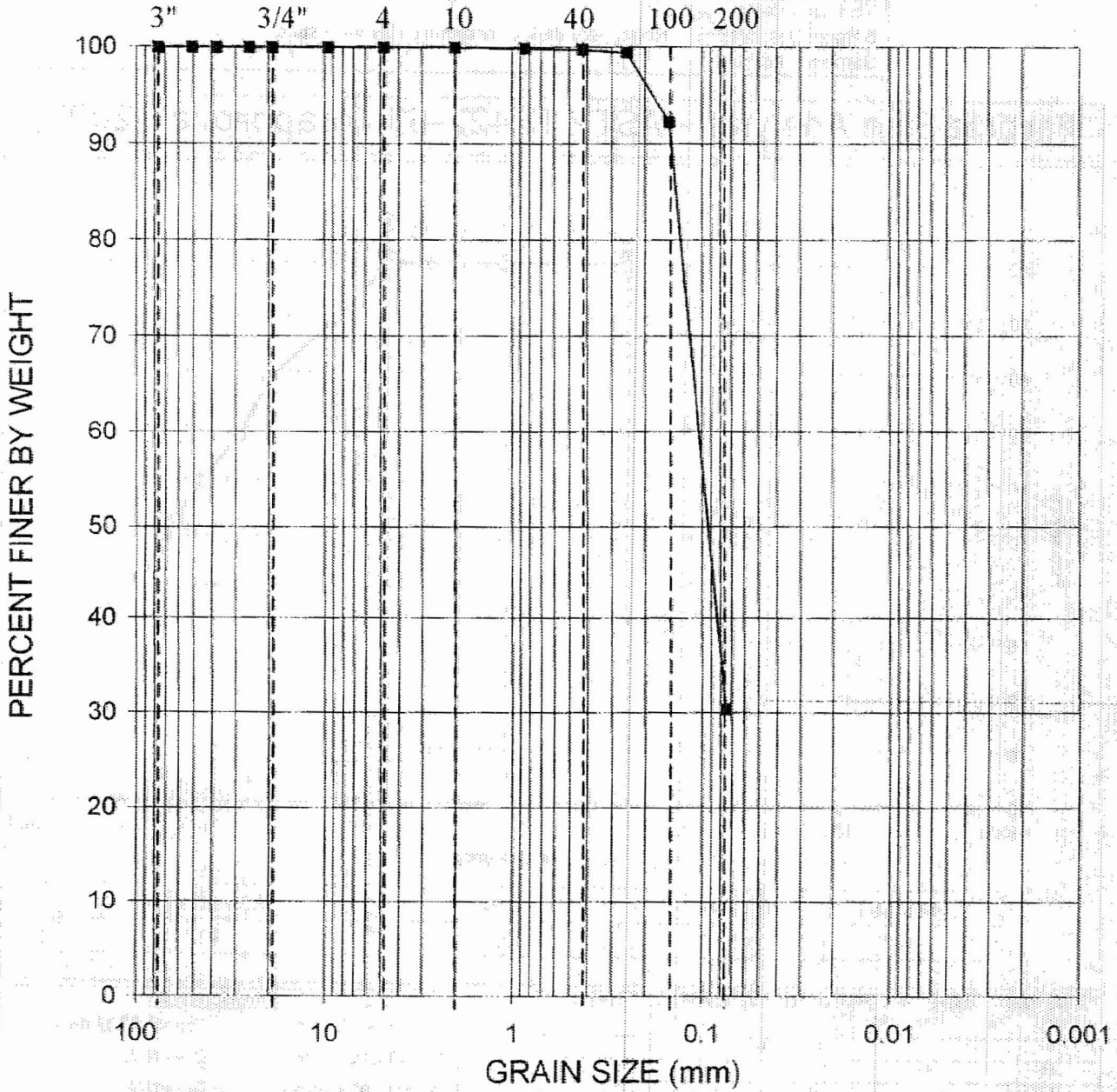
AASHTO Clayey Soils (A-7-6 (48))

**Sample/Test Description**

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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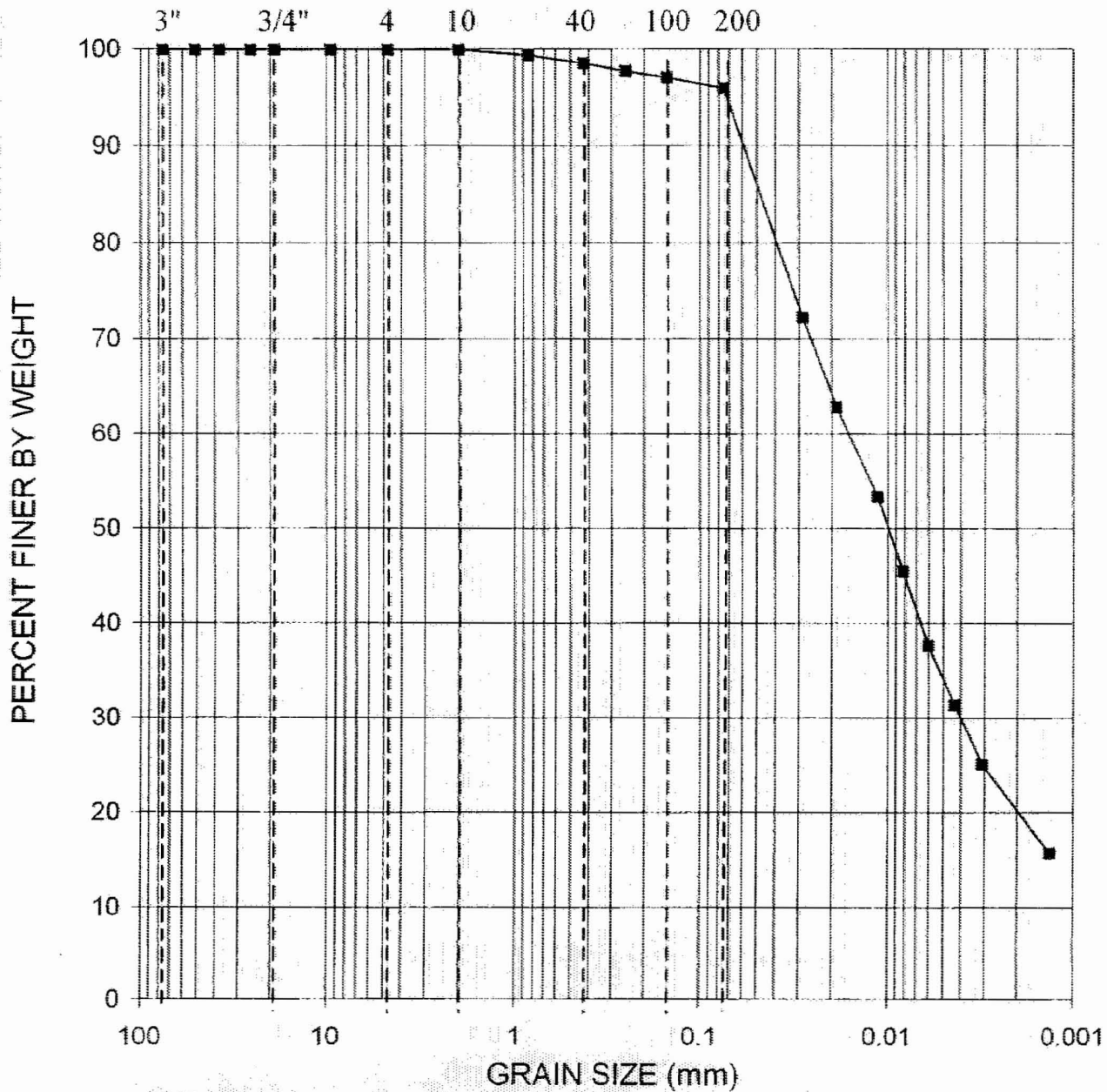
**GRADATION CURVE**  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No.: 06120048.00	Date: 9/12/2006
Boring No.	Depth (ft)	Sample Description	Class. LL PI
B-407	18.5	Silty SAND, trace sand, light brown	SM





U.S. Standard Sieve Nos.

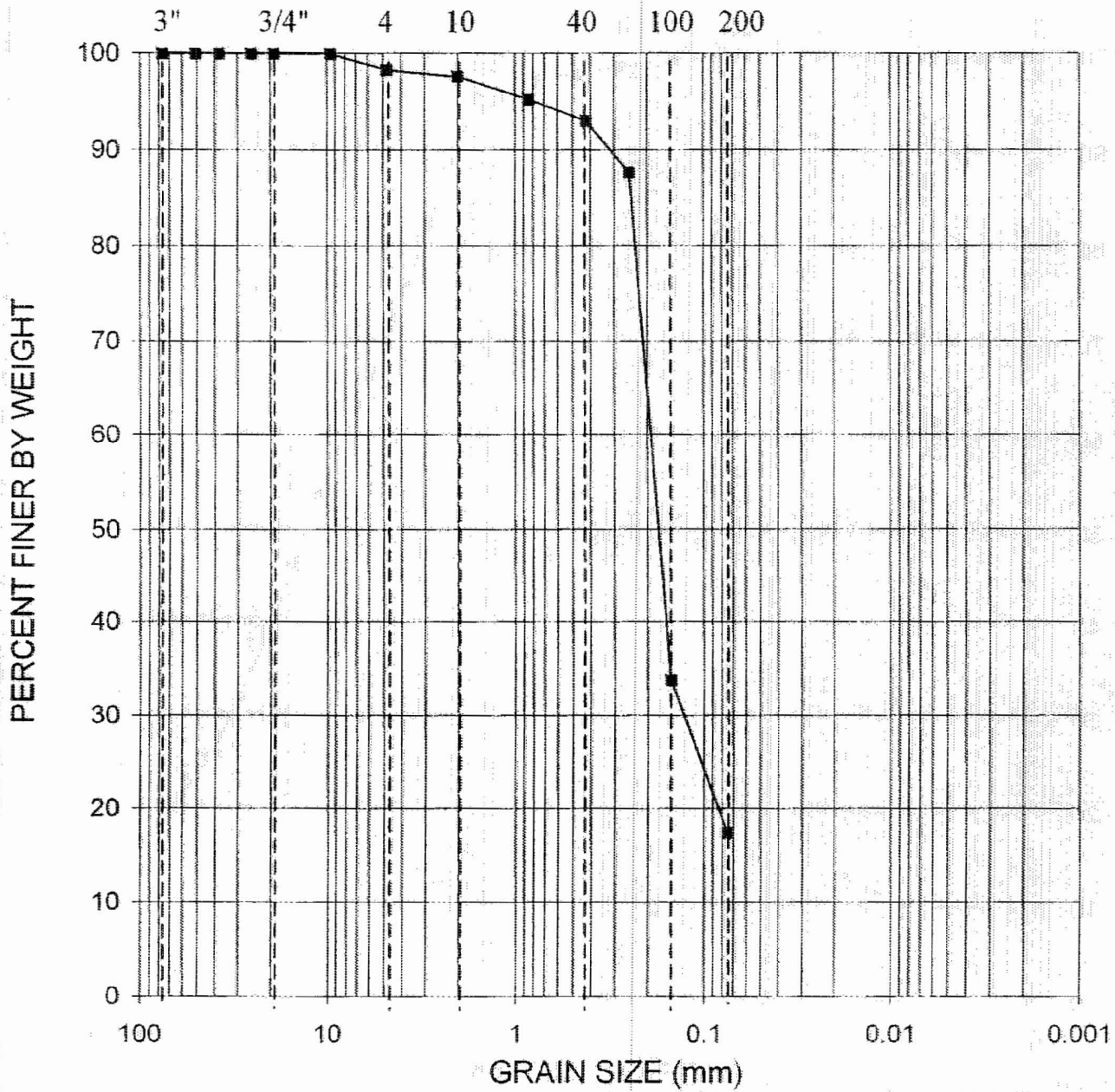


GRAVEL                      SAND                      SILT OR CLAY

GRADATION CURVE  
ASTM D422

Project		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No. 06120048.00		Date: 9/13/2006	
Boring No.	Depth (ft)	Sample Description			Class.	LL	PI	
B-407	33.5	ELASTIC SILT, trace sand, dark gray			MH	77	34	

U.S. Standard Sieve Nos.

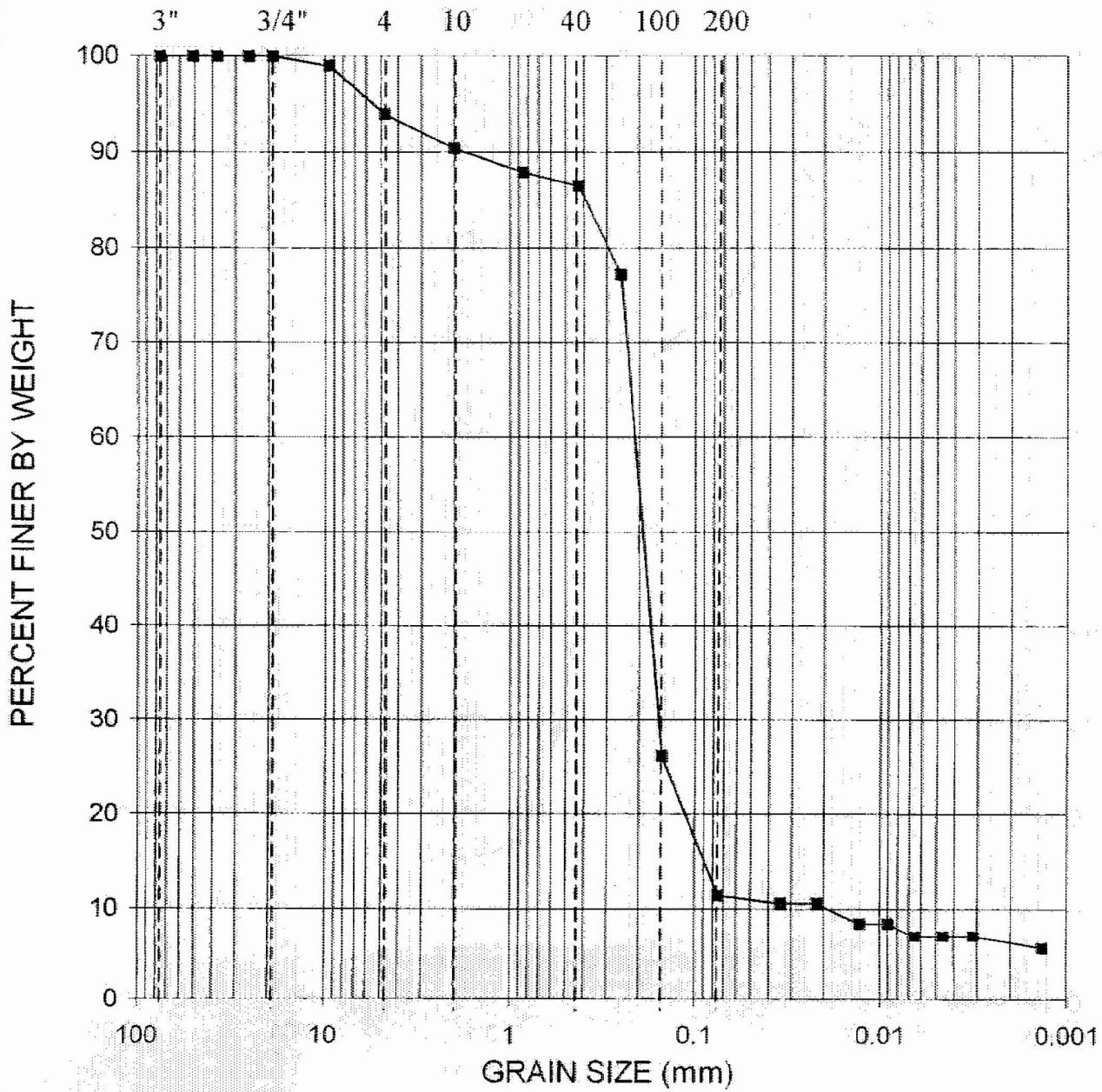


GRAVEL      SAND      SILT OR CLAY

GRADATION CURVE  
ASTM D422

Project:	Constellation Energy Group COLA Project Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	9/12/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-407	43.5	Silty SAND, trace cemented sand, green-brown	SM			

U.S. Standard Sieve Nos.

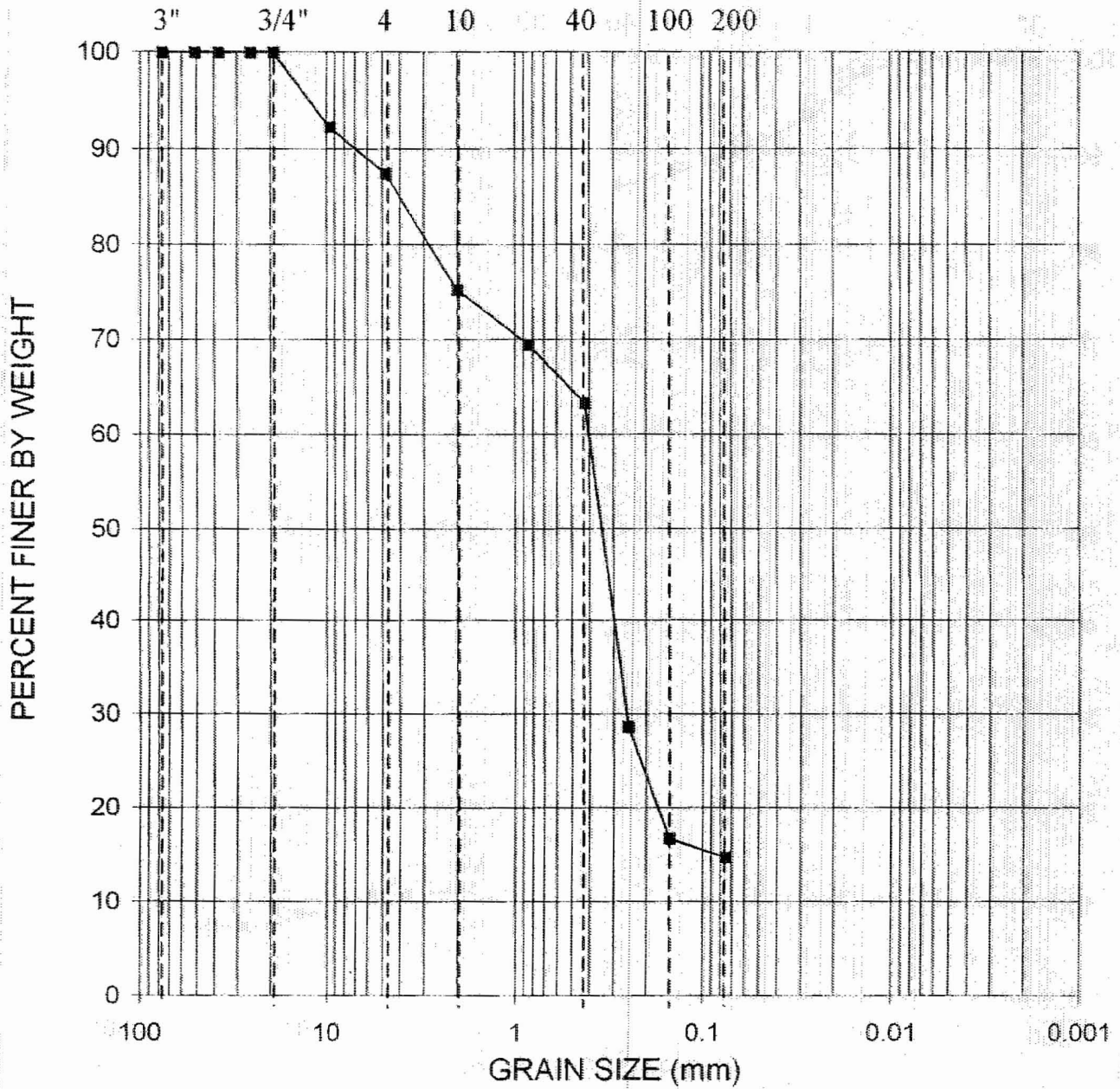


GRAVEL SAND SILT OR CLAY

GRADATION CURVE  
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 9/19/2006	
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-407	68.5	Silty SAND, trace shells, dark green	SM				

U.S. Standard Sieve Nos.

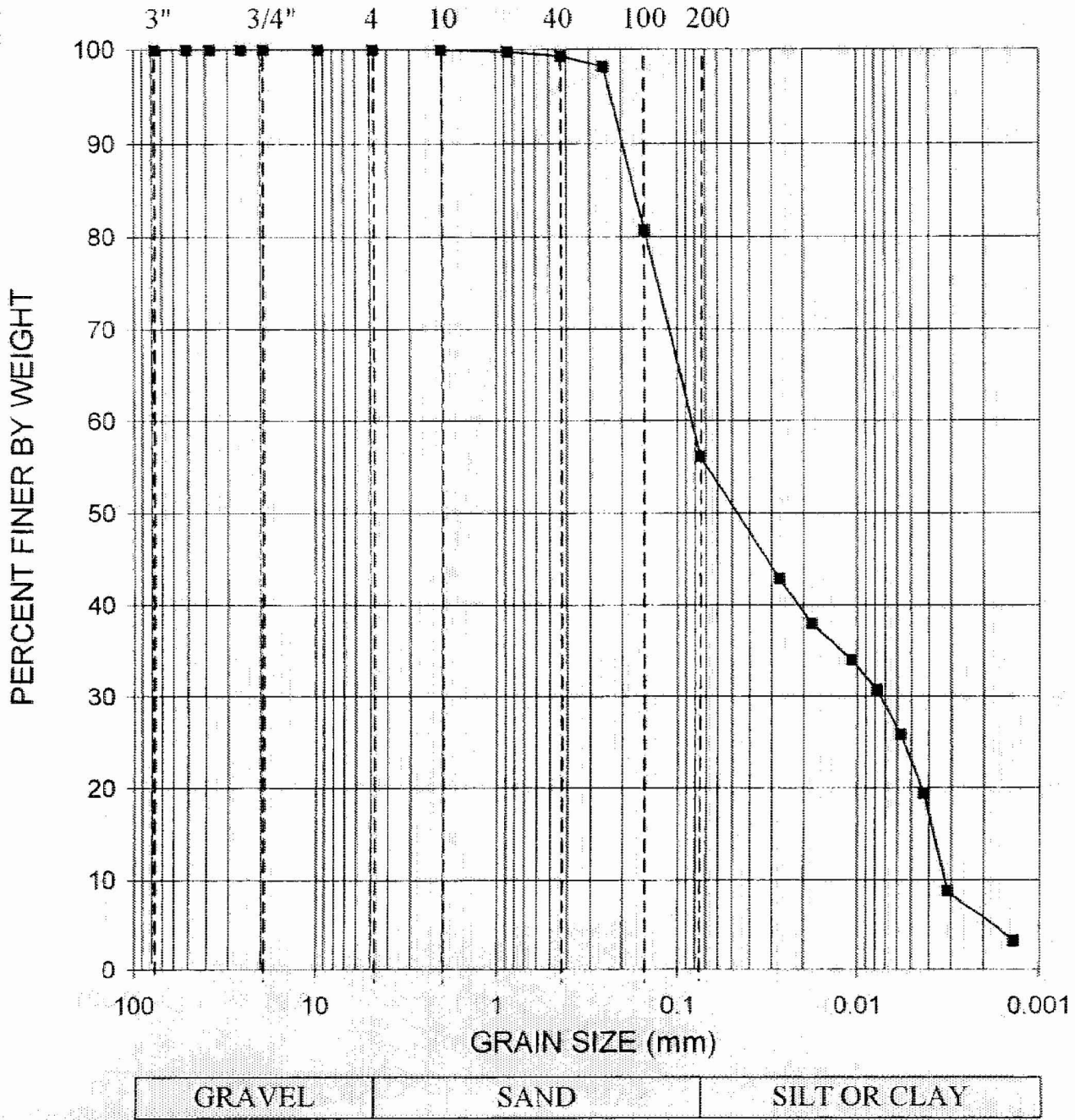


GRAVEL                      SAND                      SILT OR CLAY

GRADATION CURVE  
ASTM D422

Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.	06120048.00	Date:	9/12/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	FI	
B-407	83.5	Silty SAND, trace 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:	9/19/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-407	108.5	Sandy SILT, gray	ML			

