

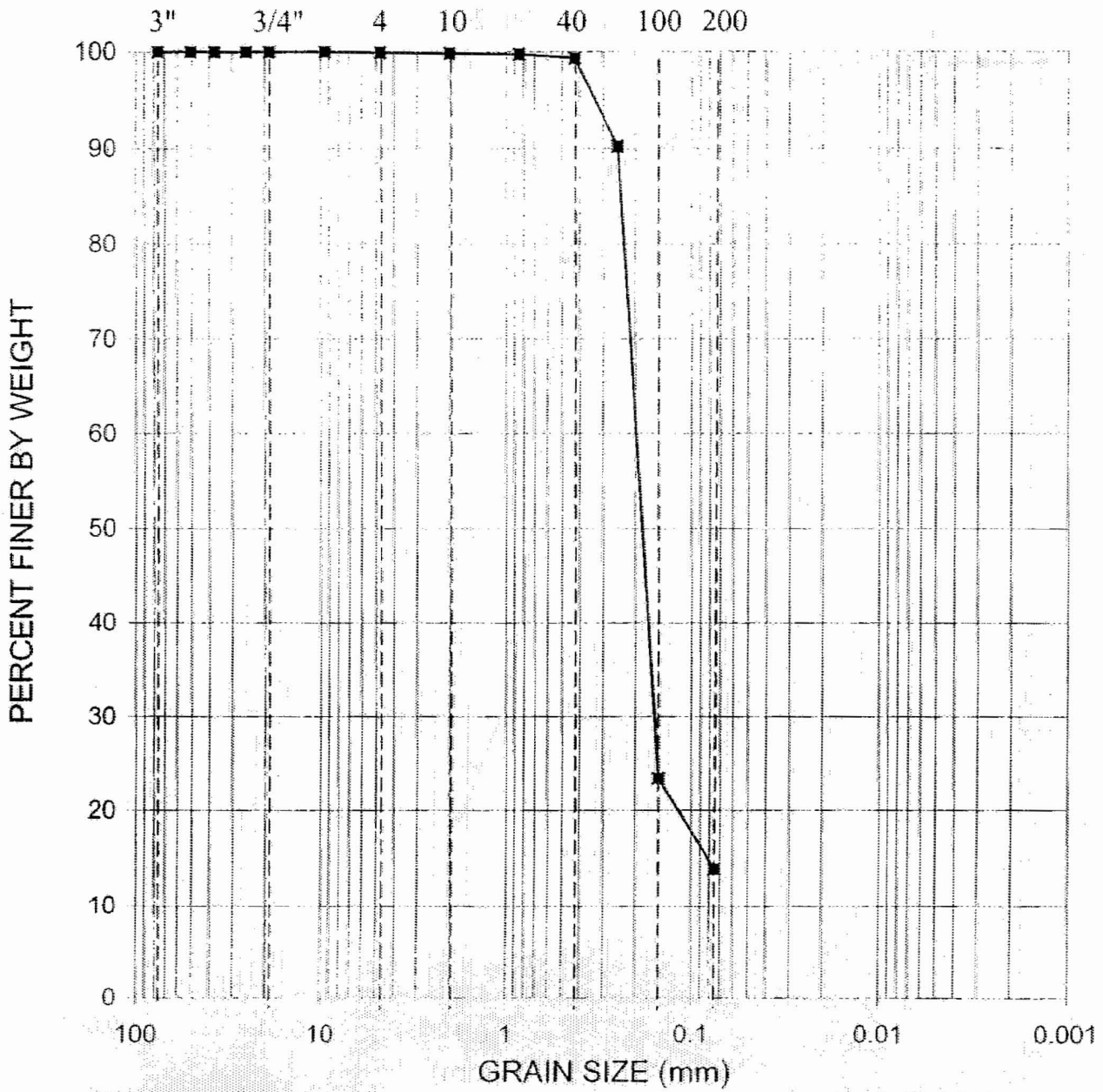
GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No. 06120048.00	Date: 9/6/2006
Boring No.	Depth (ft)	Sample Description	Class. LL PI
B-334	73.5	Silty SAND, trace shells, dark gray	SM



U.S. Standard Sieve Nos.



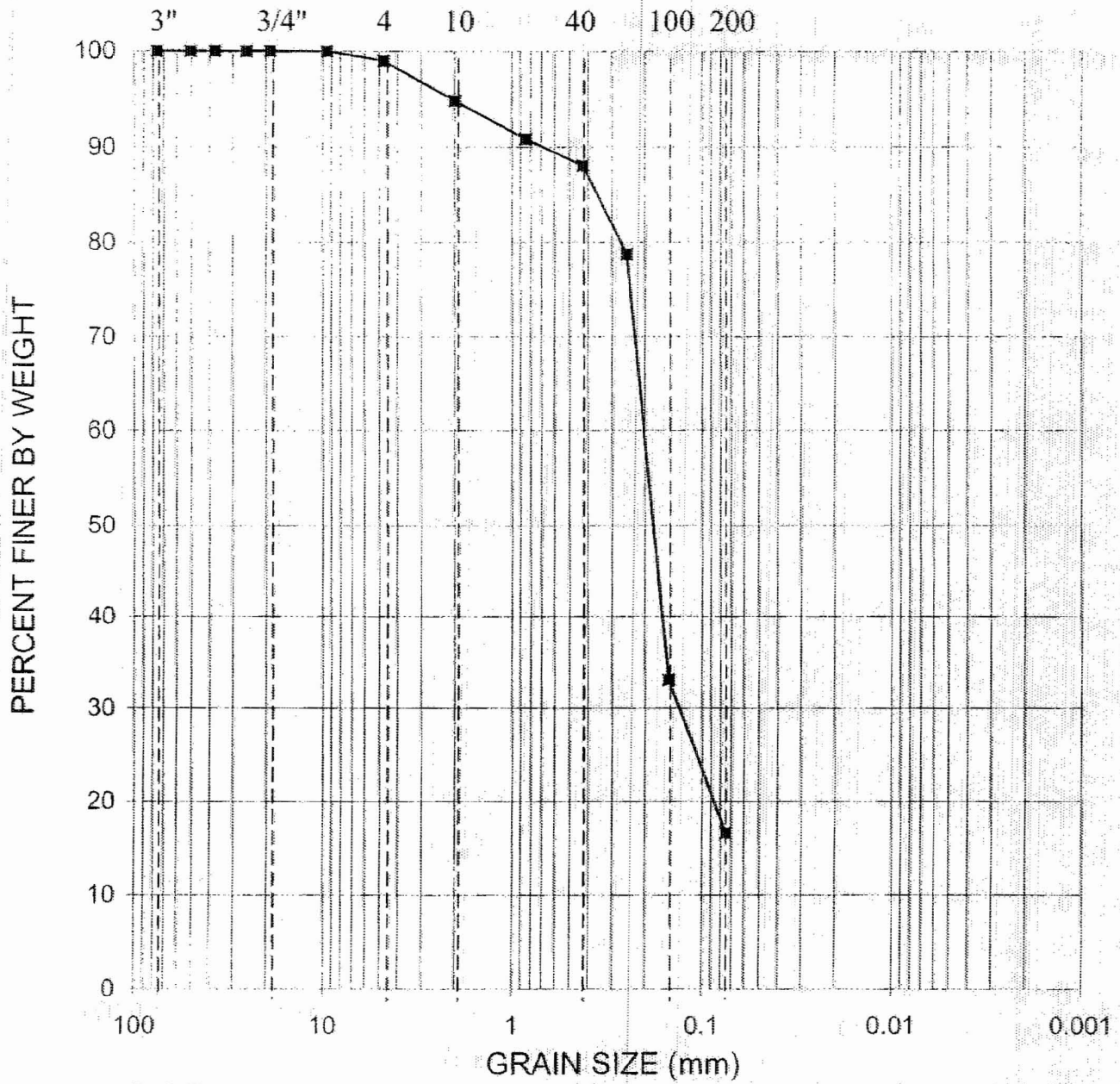
GRAVEL                      SAND                      SILT OR CLAY

GRADATION CURVE  
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 9/6/2006	
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-334	83.5	Silty SAND, contains shells, dark gray	SM				



U.S. Standard Sieve Nos.



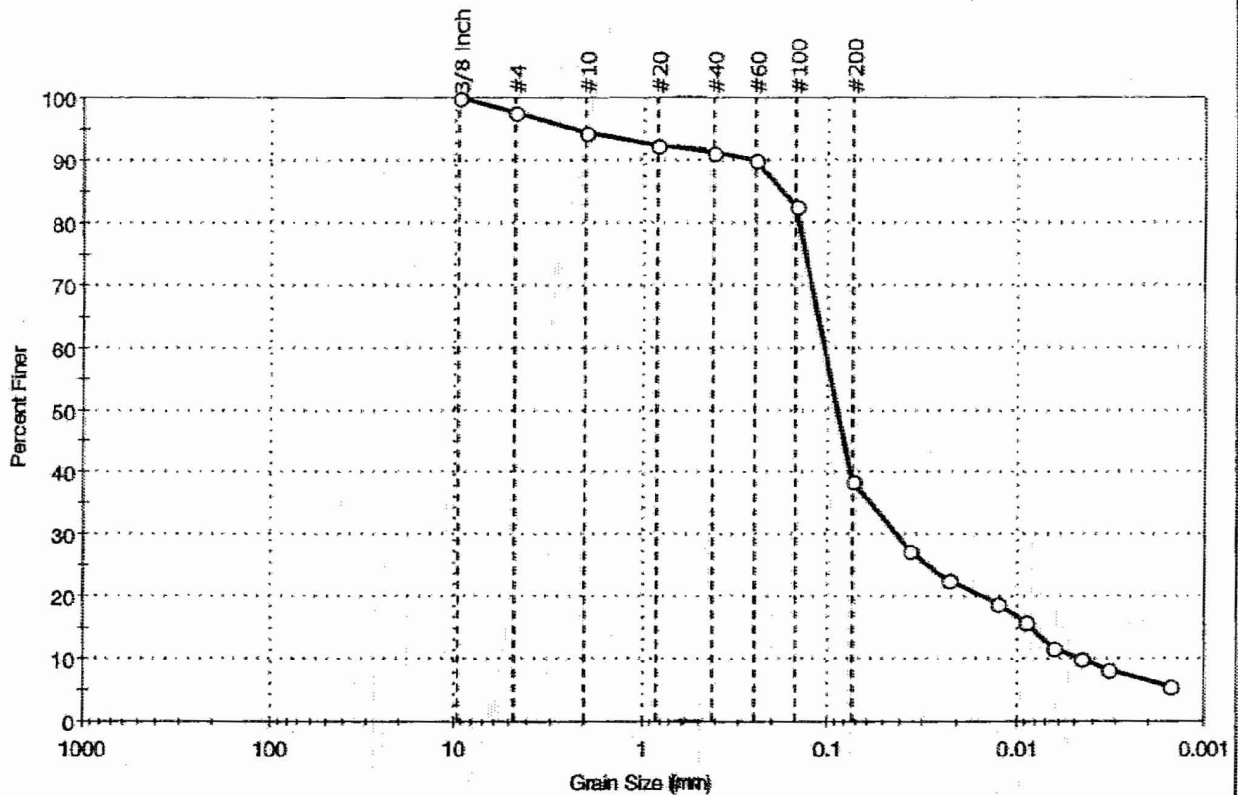
GRAVEL                      SAND                      SILT OR CLAY

GRADATION CURVE  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/6/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-334	98.5	Silty SAND, trace shells, dark gray	SM				

Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No: GTX-6880
Boring ID: B-337	Sample Type: tube	Tested By: sam	Checked By: mcm
Sample ID: S-14	Test Date: 09/28/06	Test Id: 95810	
Depth: 53.5-55.5 ft			
Test Comment: ---	Sample Description: Moist, olive gray clayey sand		
Sample Comment: ---			

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



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	2.3	59.0	38.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 inch	9.51	100		
#4	4.75	98		
#10	2.00	94		
#20	0.85	92		
#40	0.42	91		
#60	0.25	90		
#100	0.15	83		
#200	0.074	39		
—	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
—	0.0354	28		
—	0.0222	23		
—	0.0127	19		
—	0.0090	16		
—	0.0065	12		
—	0.0046	10		
—	0.0033	8		
—	0.0015	6		

**Coefficients**

D <sub>85</sub> = 0.1754 mm	D <sub>30</sub> = 0.0417 mm
D <sub>60</sub> = 0.1038 mm	D <sub>15</sub> = 0.0084 mm
D <sub>50</sub> = 0.0885 mm	D <sub>10</sub> = 0.0045 mm
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

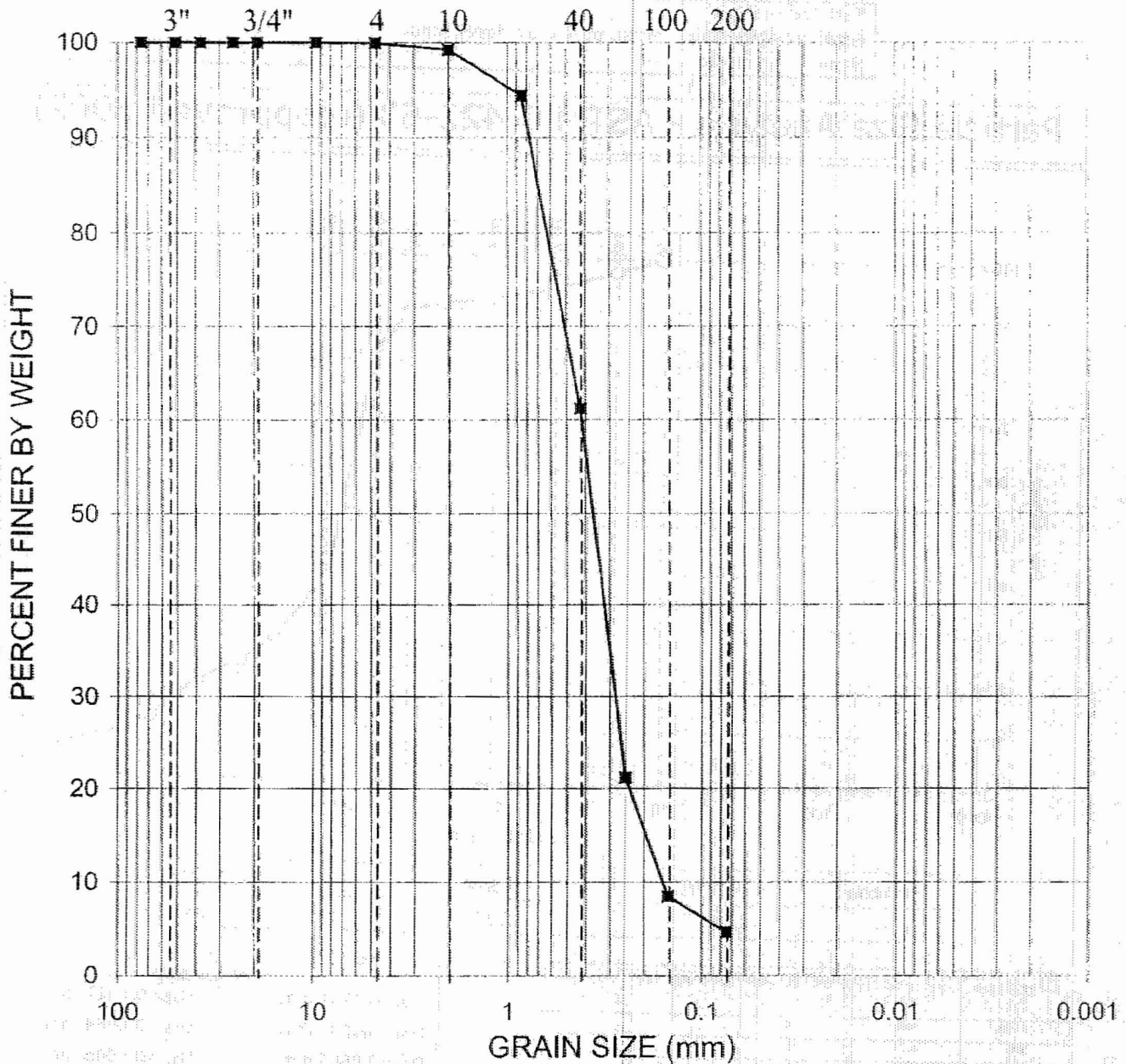
**Classification**

ASTM	Clayey sand (SC)
AASHTO	Clayey Soils (A-6 (4))

**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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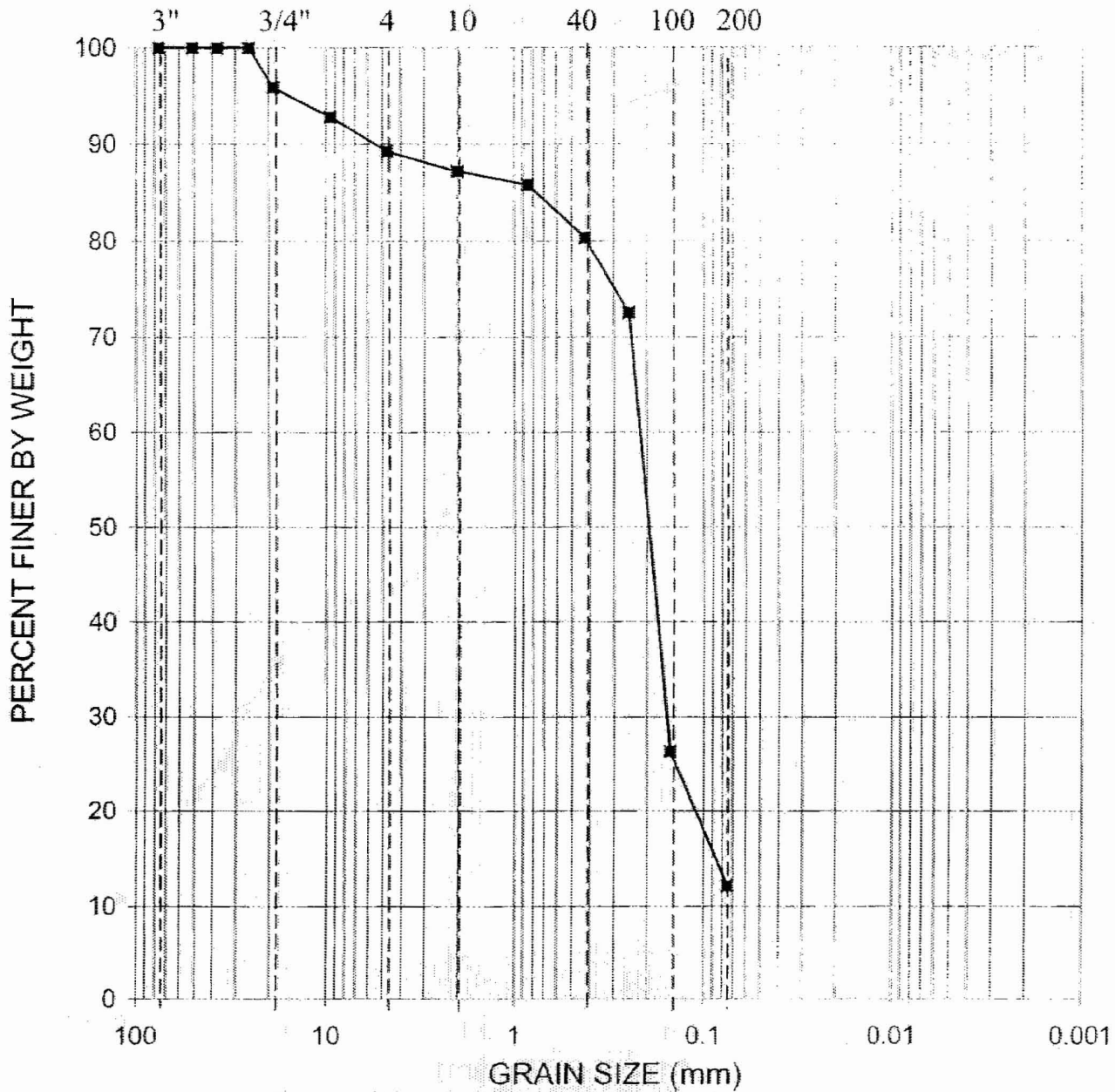
**GRADATION CURVE**  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CNPP), Calvert County, Maryland	Contract No.:	06120048.00	Date:	8/31/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI
B-339	5.0	Poorly Graded SAND, trace silt, tan	SP		





U.S. Standard Sieve Nos.

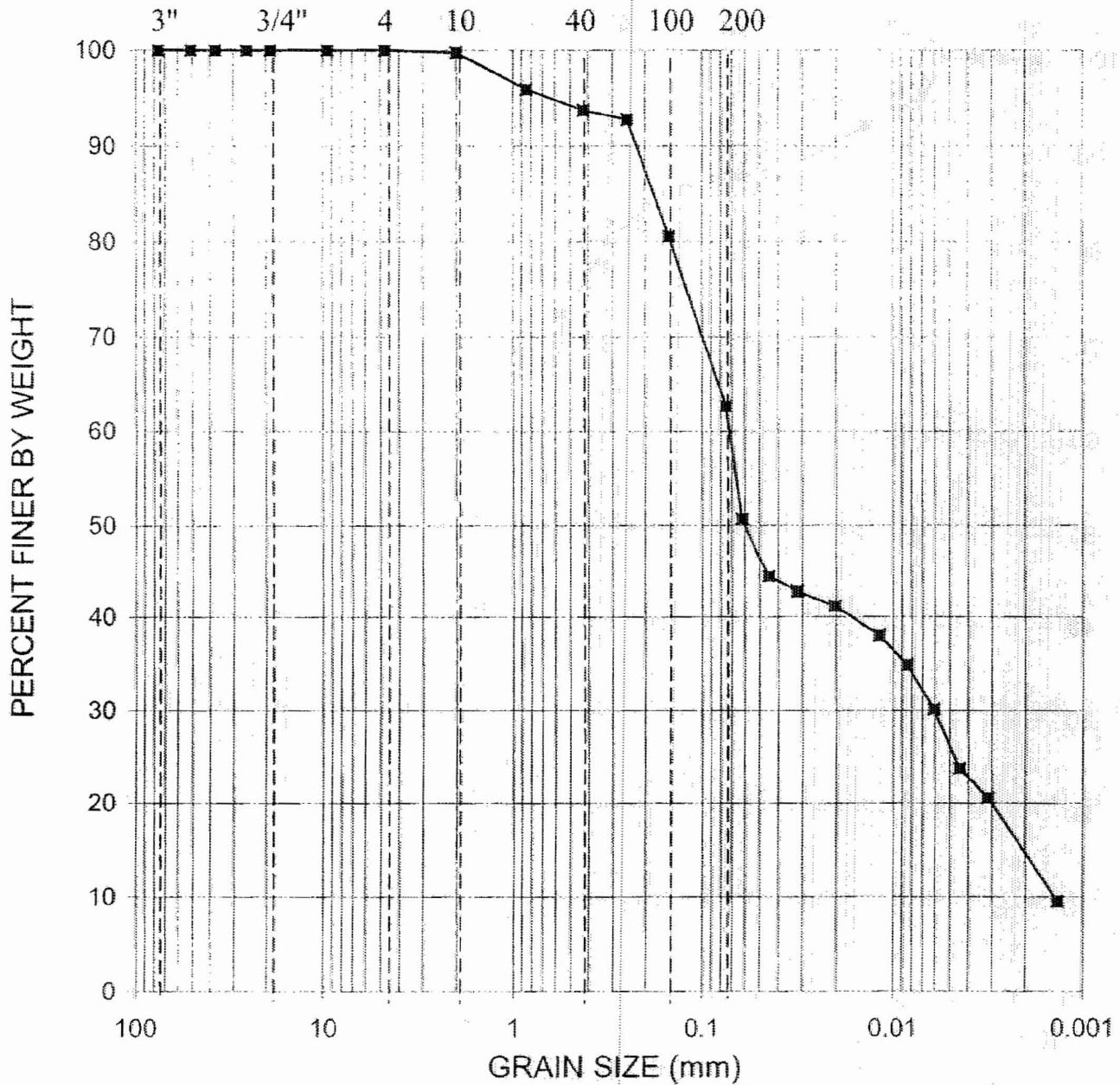


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE  
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048 00		Date: 8/31/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-339	13.5	Silty SAND, trace rock fragments, red-brown	SM				

U.S. Standard Sieve Nos.



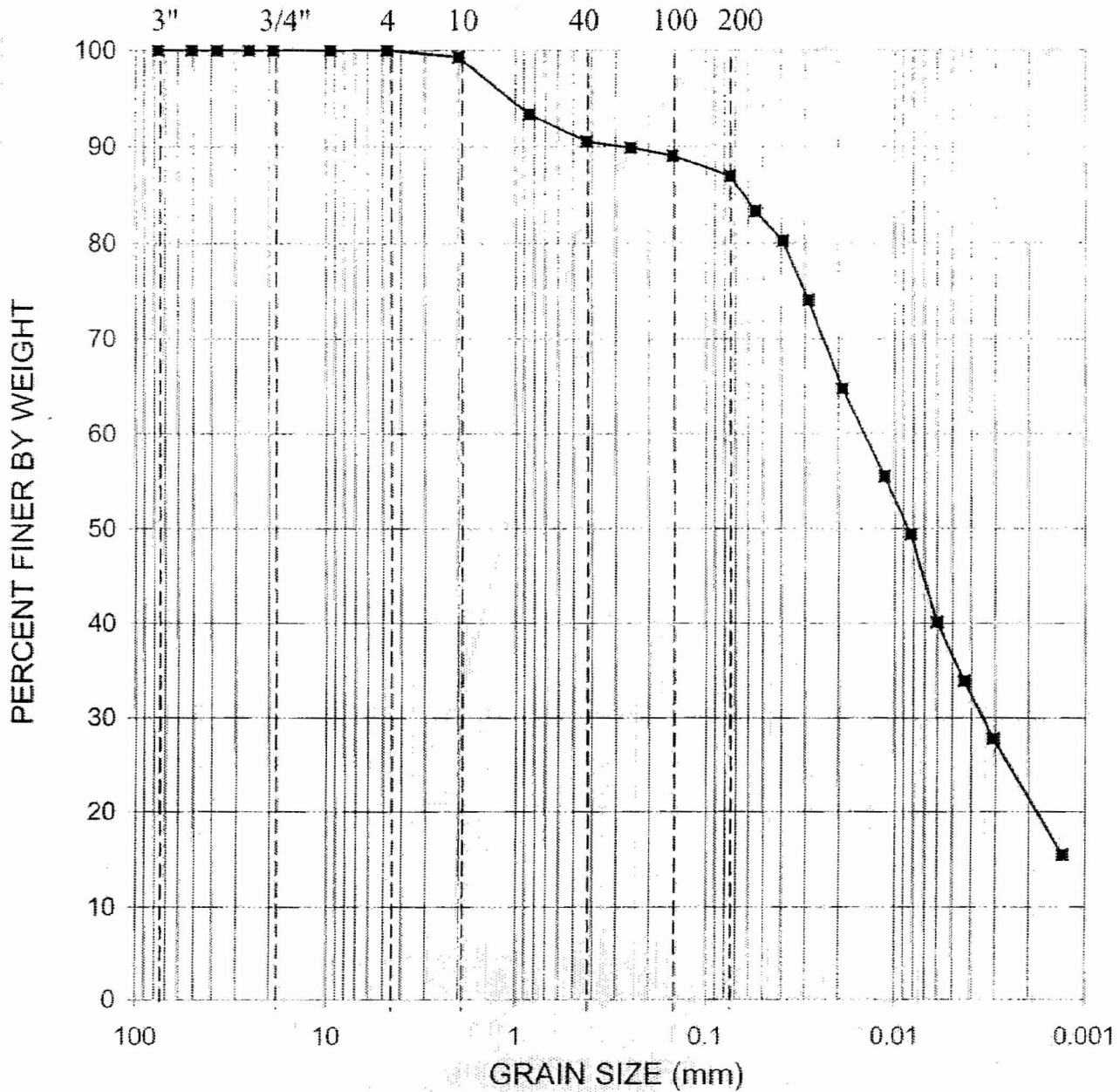
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE

ASTM D422

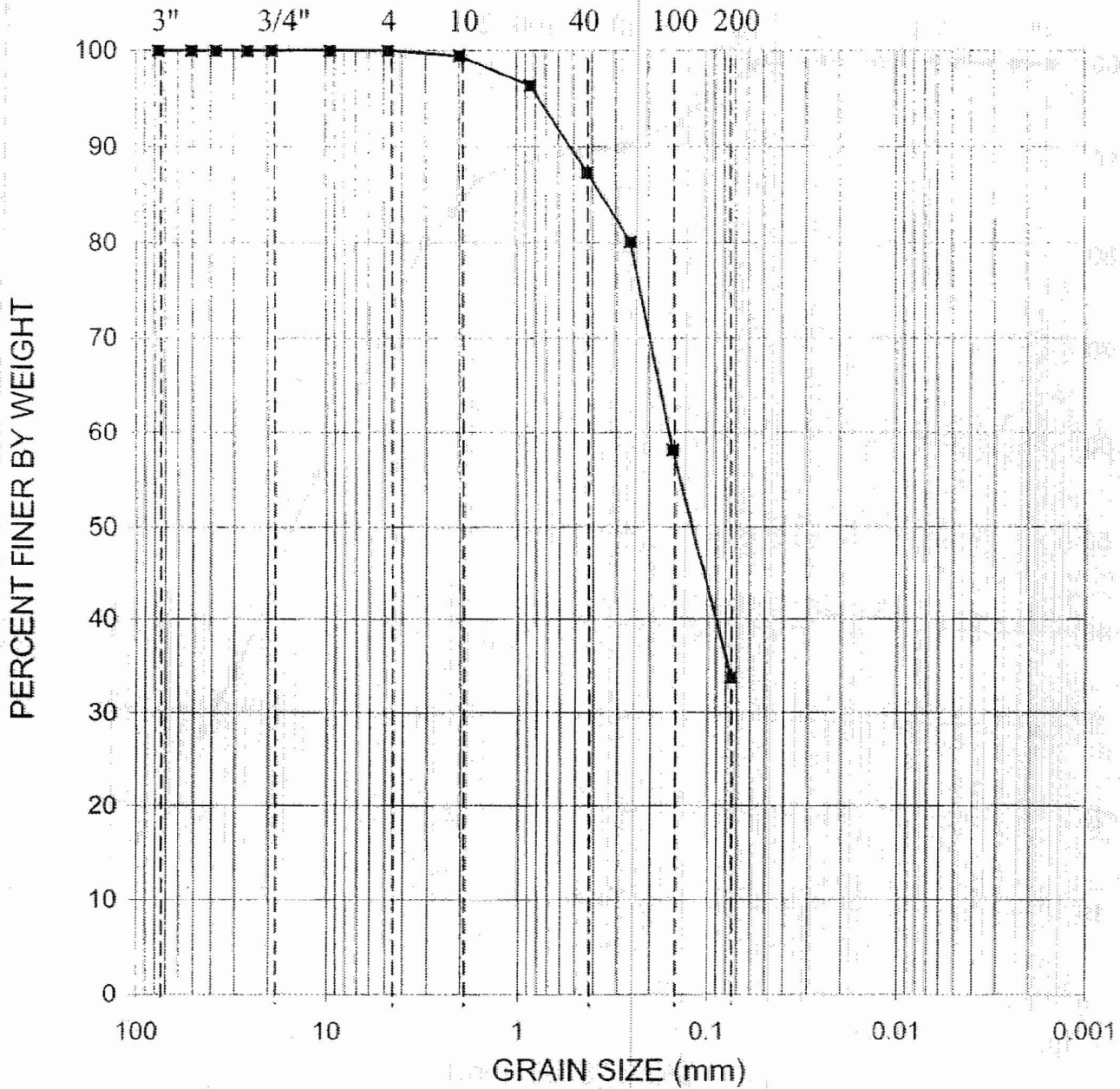
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/5/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-339	33.5	Sandy FAT CLAY, dark gray	CH	62	41		

U.S. Standard Sieve Nos.





U.S. Standard Sieve Nos.

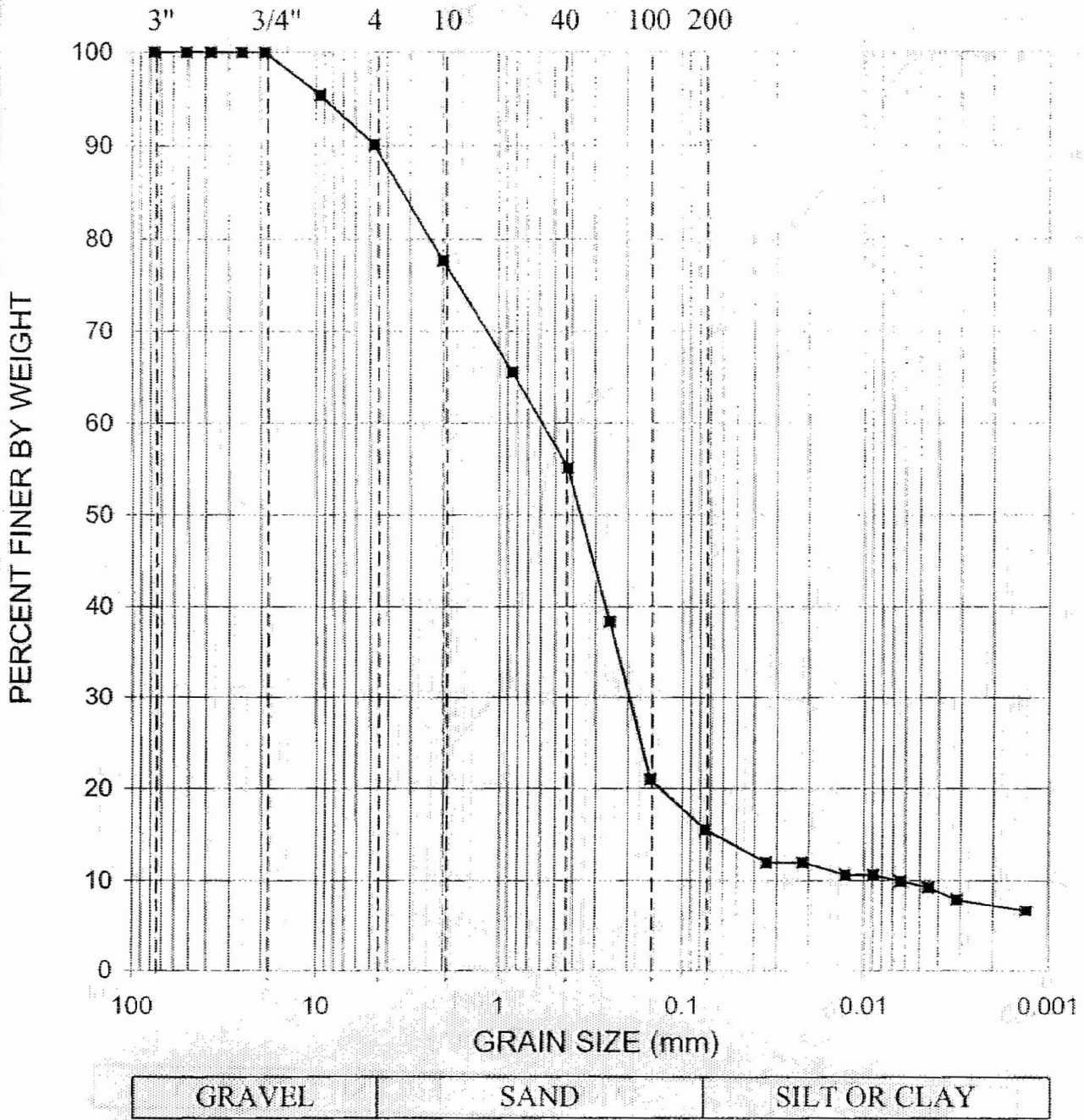


GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/31/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-339	53.5	Silty SAND, dark green	SM	48	18		

U.S. Standard Sieve Nos.

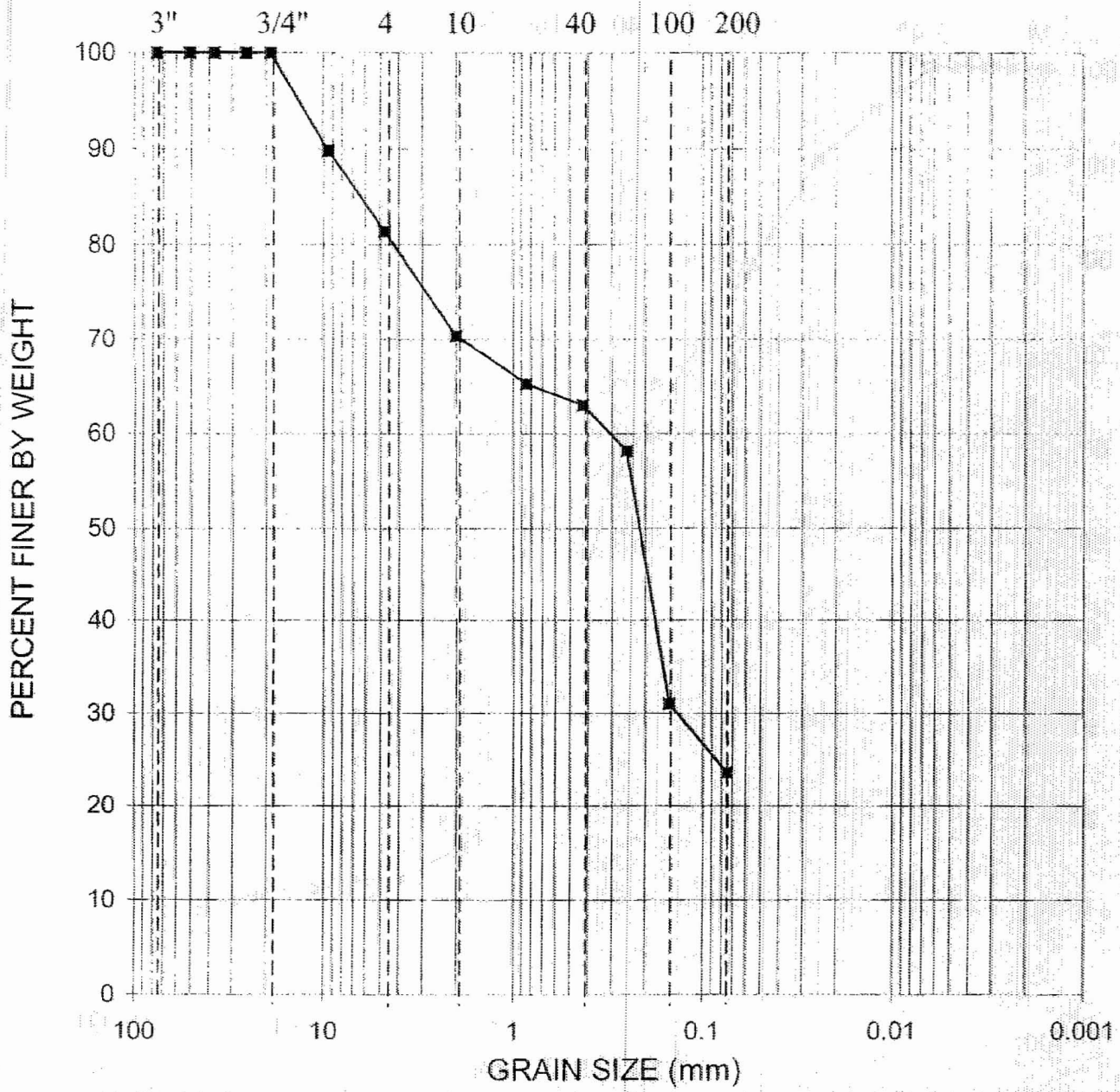


GRAVEL                      SAND                      SILT OR CLAY

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		
B-339	63.5	Clayey SAND, trace shells, dark gray	SC	49	28		

U.S. Standard Sieve Nos.



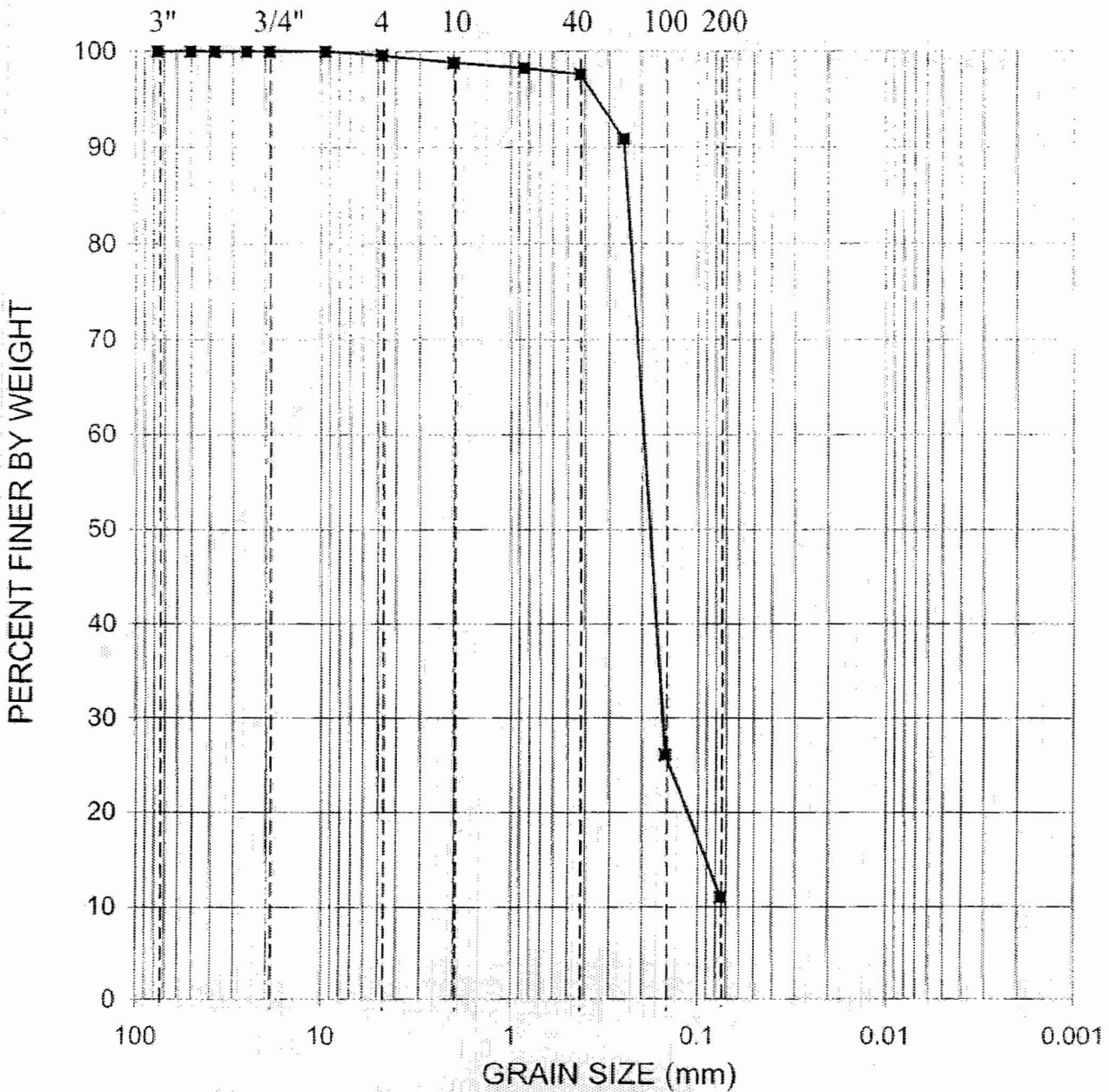
GRAVEL SAND SILT OR CLAY

GRADATION CURVE  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	8/31/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-339	78.5	Silty SAND, with shells, green	SM			



U.S. Standard Sieve Nos.

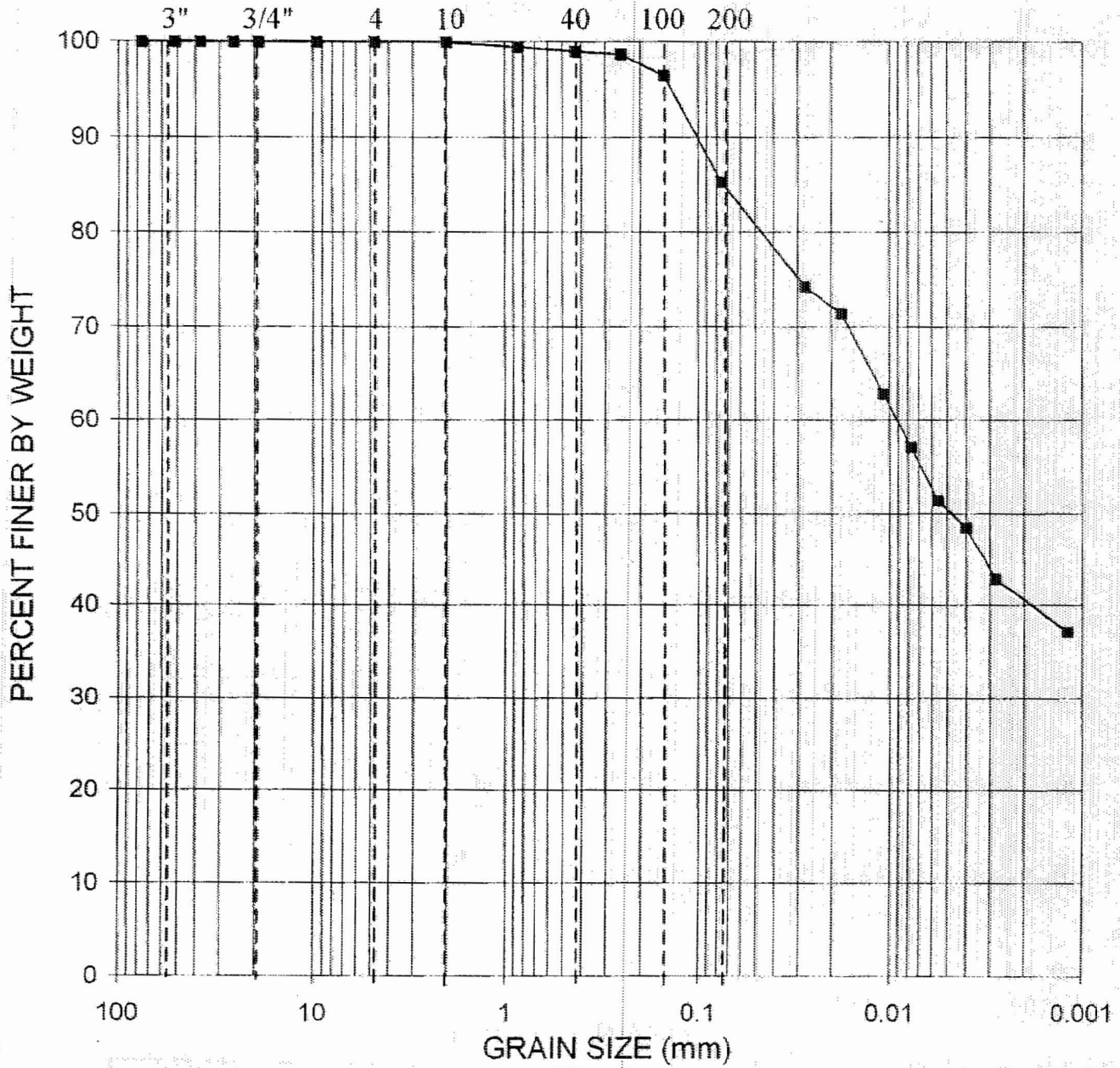


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**GRADATION CURVE**  
ASTM D422


Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	8/31/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-339	88.5	Poorly Graded SAND, with silt, contains shells, dark green	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:	9/14/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-401	10.5	FAT CLAY, with sand, gray-brown	CH	66	46		

