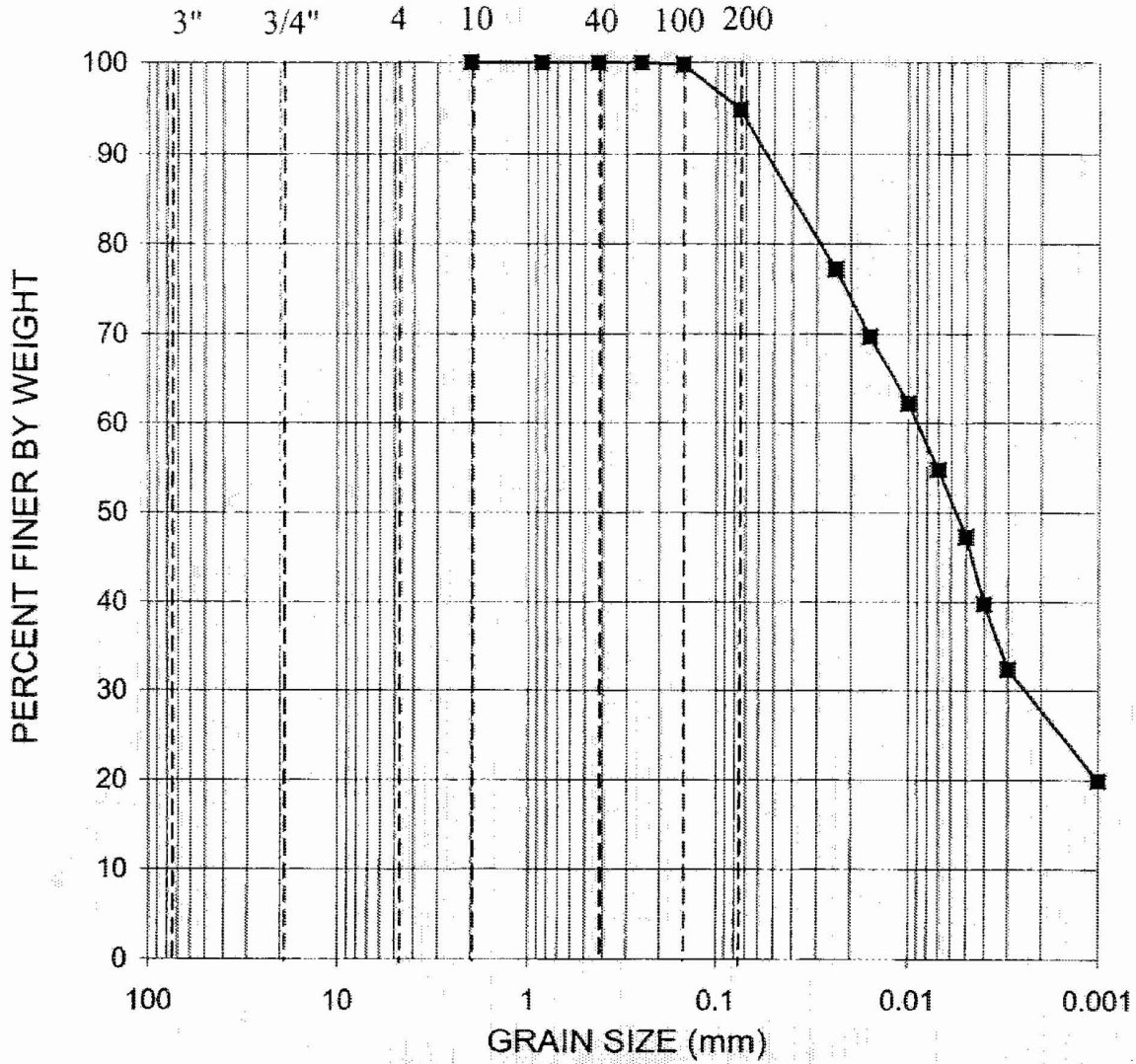


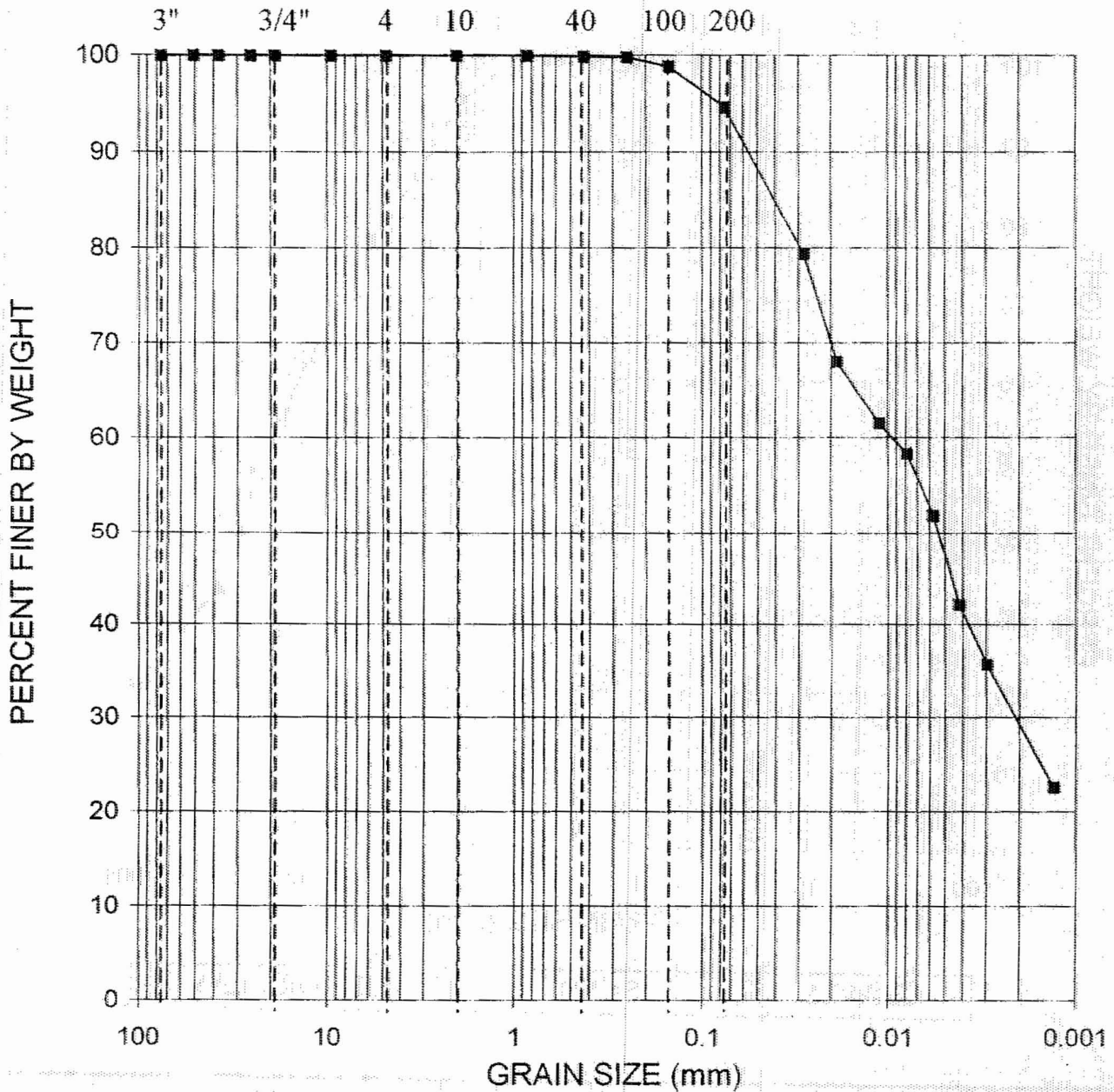
U.S. Standard Sieve Nos.



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-434	53.5-55.5	FAT CLAY - gray	CH	56	32	
▲							
●							Project: Calvert Cliffs Nuclear Power Plant  Contract No. 06120048 Date: 11/16/06 Method: ASTM D422

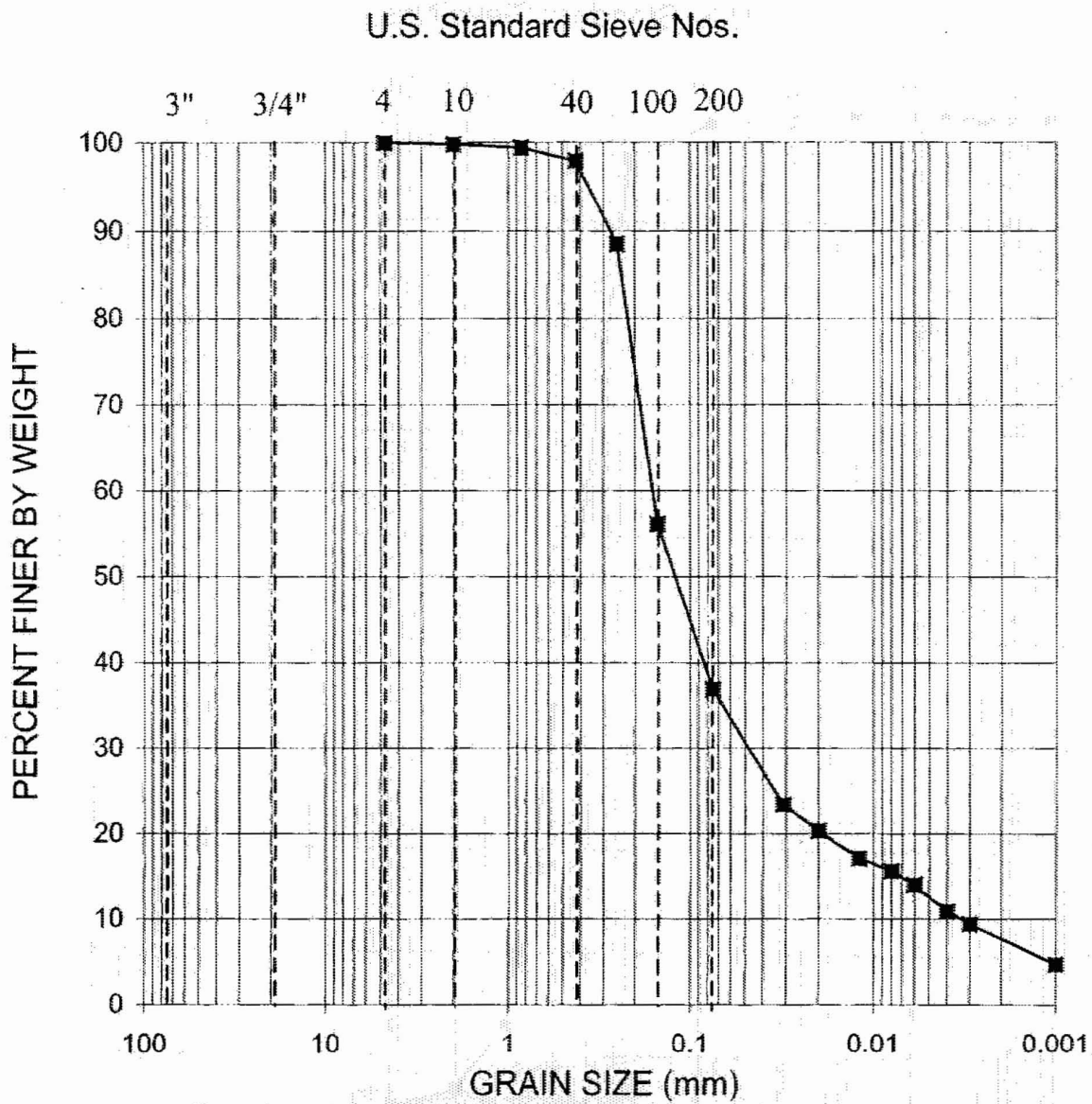
U.S. Standard Sieve Nos.



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: 9/19/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI			
B-434	58.5	FAT CLAY, trace sand, gray	CH	86	64			

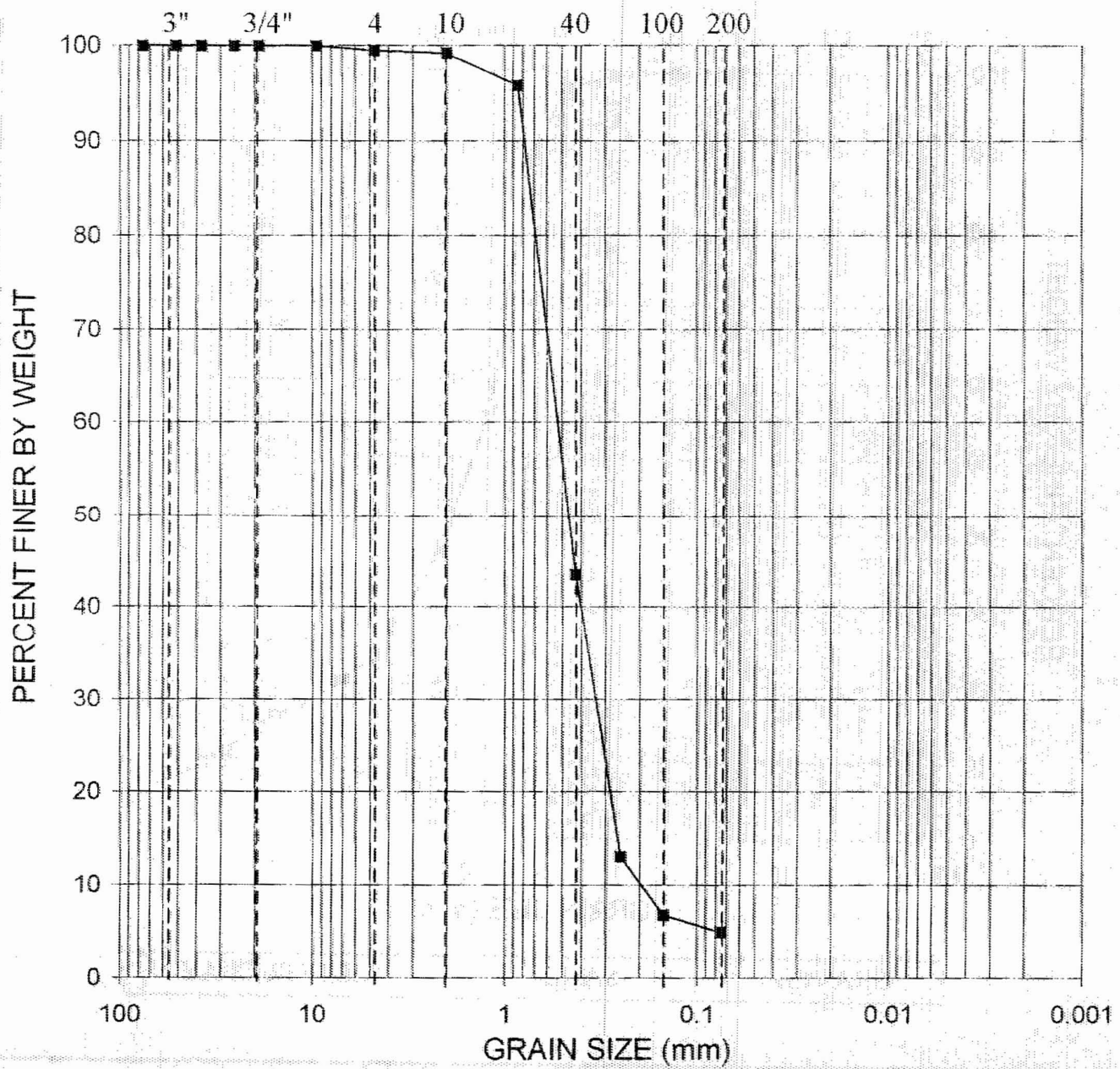


GRAVEL	SAND	SILT OR CLAY
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Key	Sample	Depth(ft.)	Sample Description	Class.	LL	PI	<b>Schnabel Engineering</b> GRADATION CURVES
■	B-434	63.5-64.3	Fine SILTY SAND - dark gray	SM	---	NP	
▲							
●							Project: Calvert Cliffs Nuclear Power Plant  Contract No. 06120048 Date: 11/20/06 Method: ASTM D422



U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE

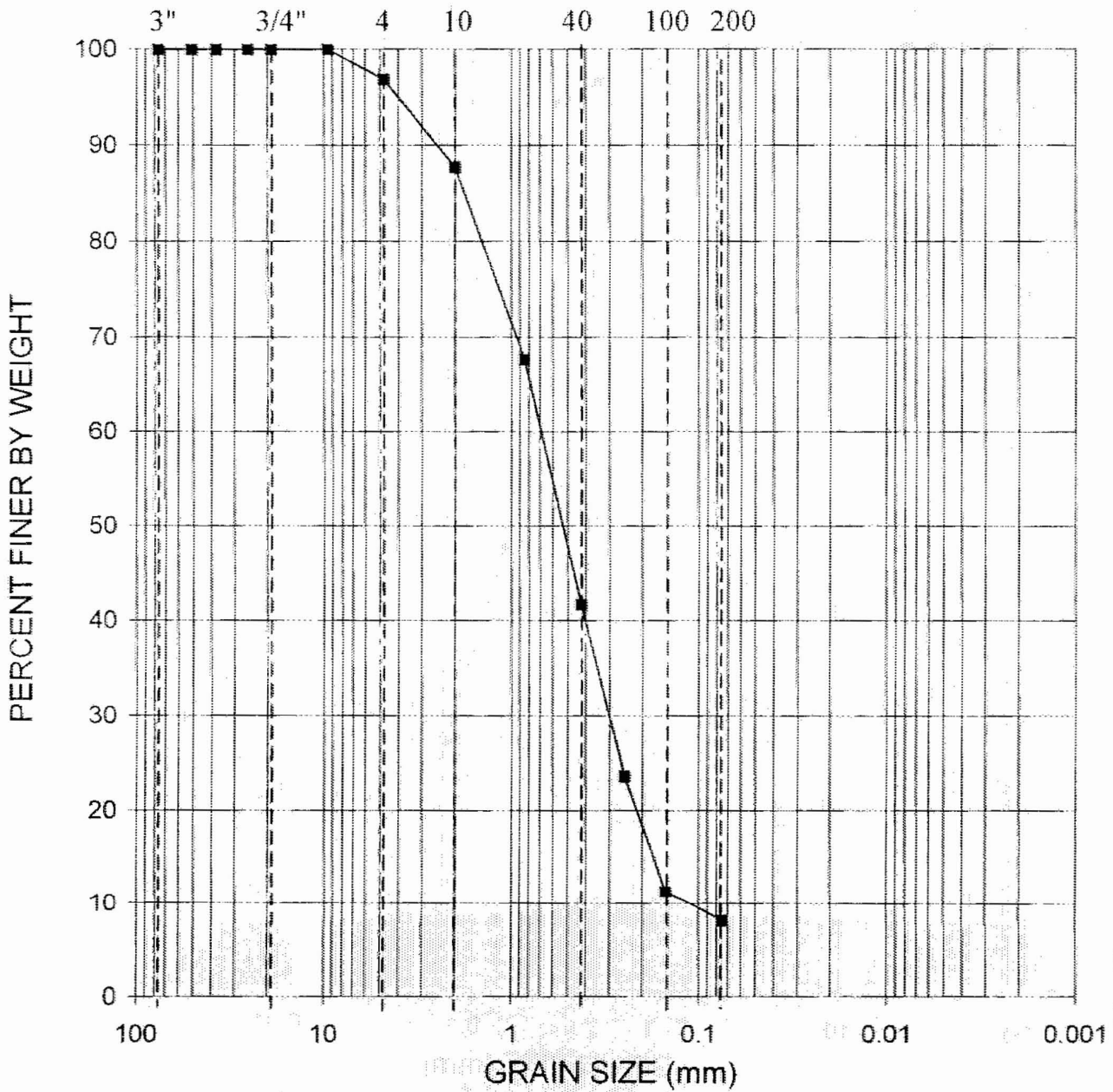
ASTM D422

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-436	7.5	Poorly Graded SAND, with silt, trace gravel, light brown	SP-SM		






U.S. Standard Sieve Nos.

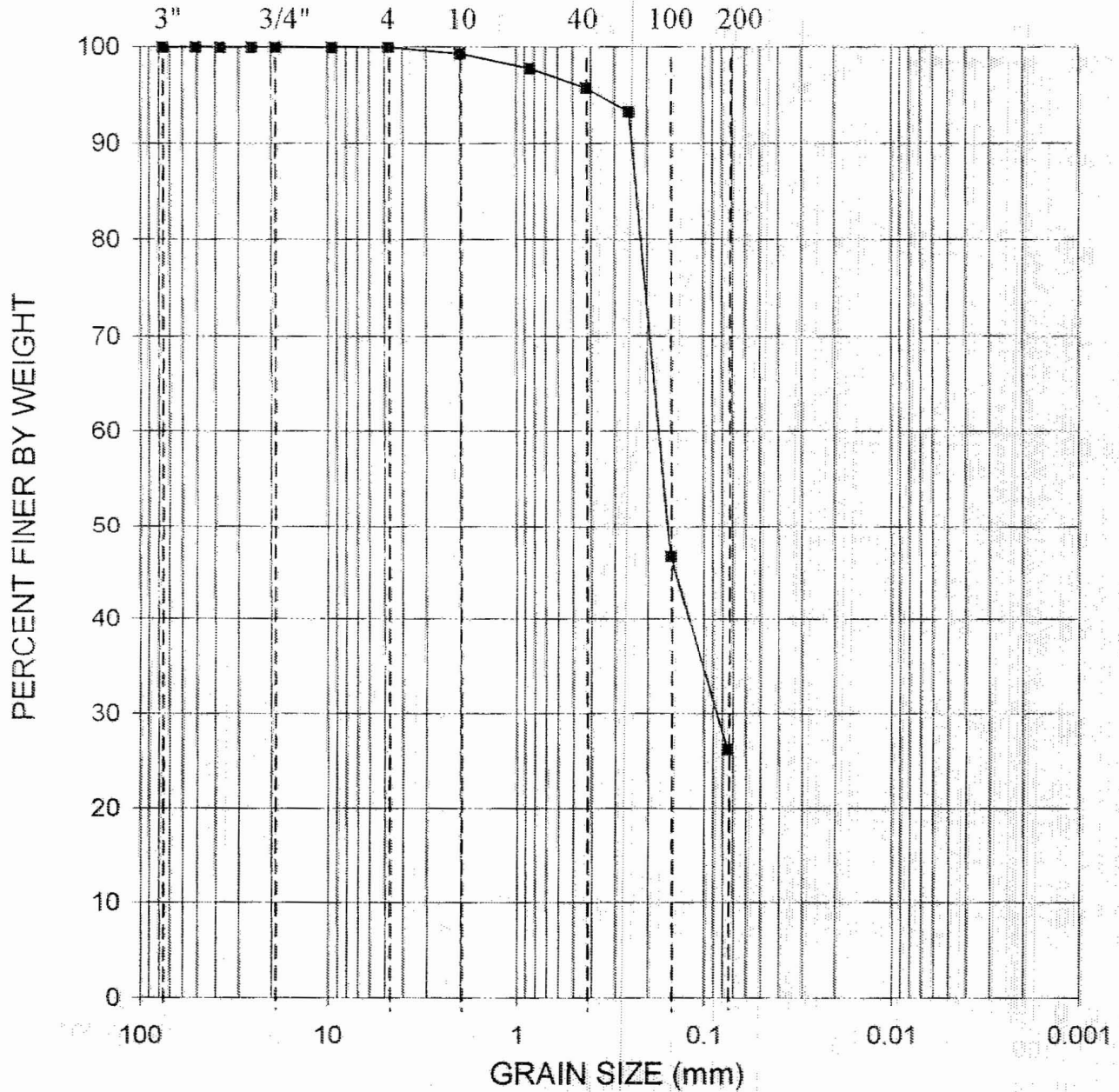


GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 10/4/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-436	23.5	Poorly Graded SAND, with silt, trace gravel, light brown	SP-SM				

U.S. Standard Sieve Nos.



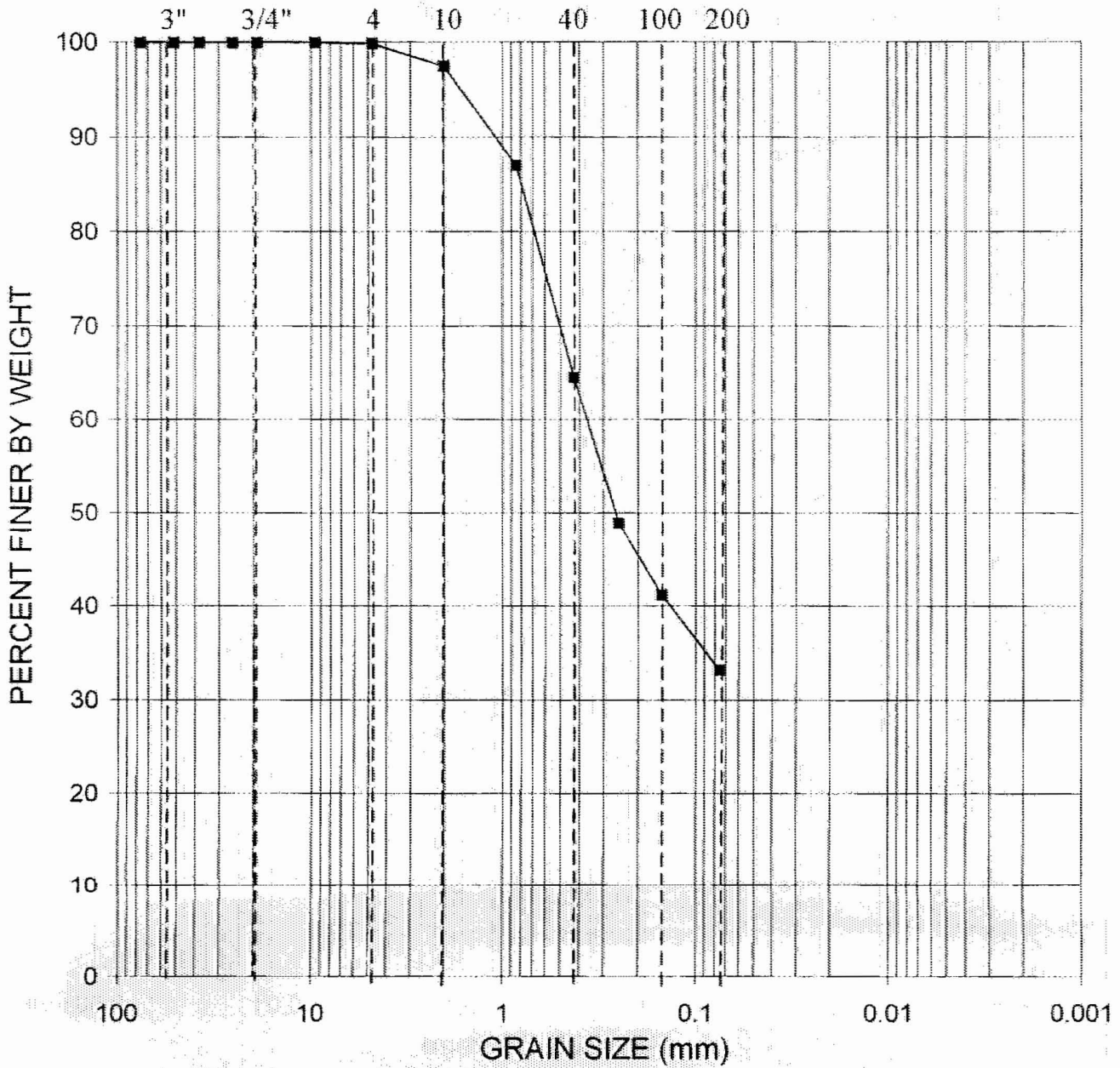
GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00	Date: 10/4/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
E-436	33.5	Silty SAND, light brown	SM		




U.S. Standard Sieve Nos.

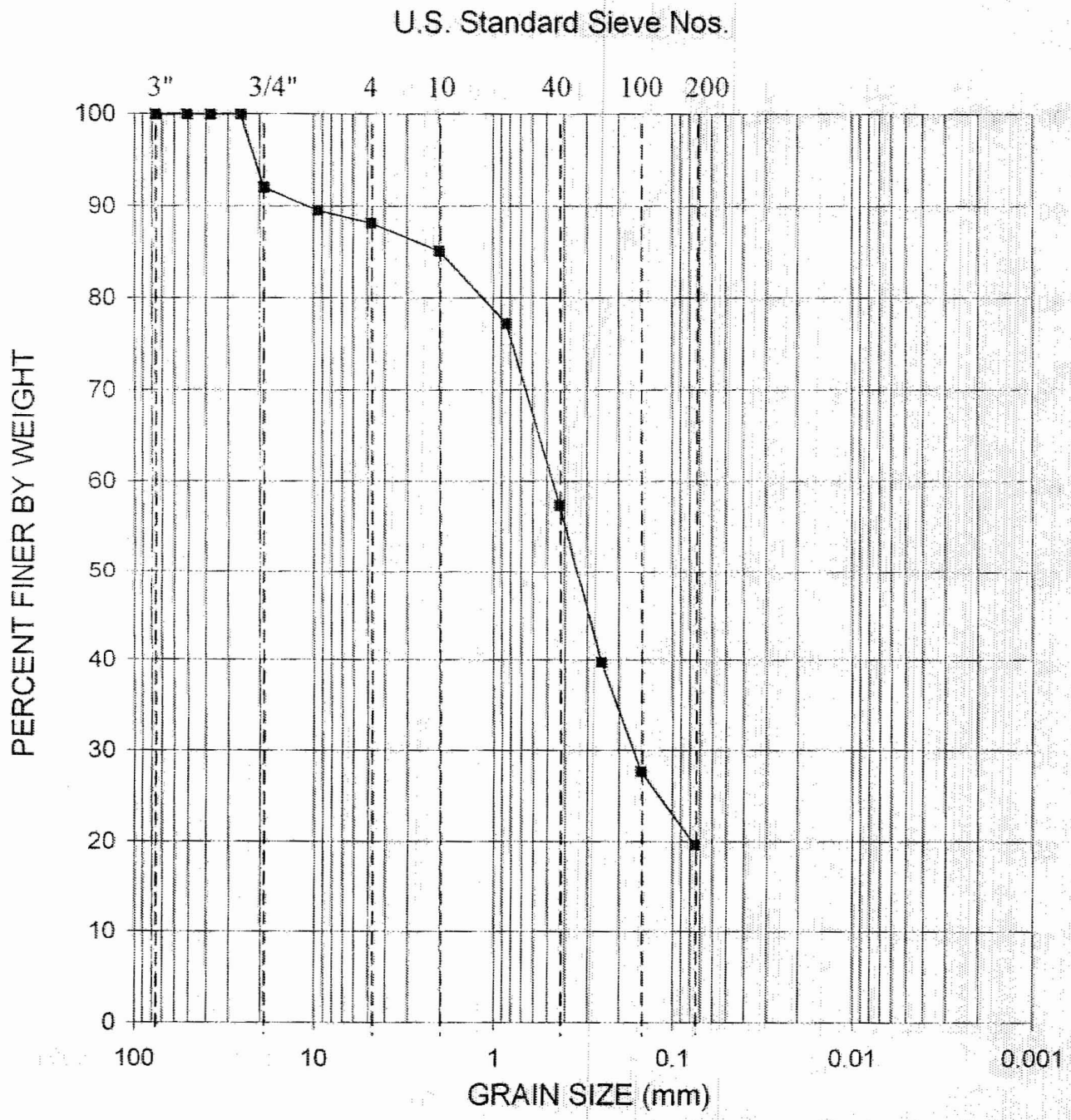


GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.: 06120048.00		Date: 10/4/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI			
B-440	2.5	Silty SAND, green-brown	SM					





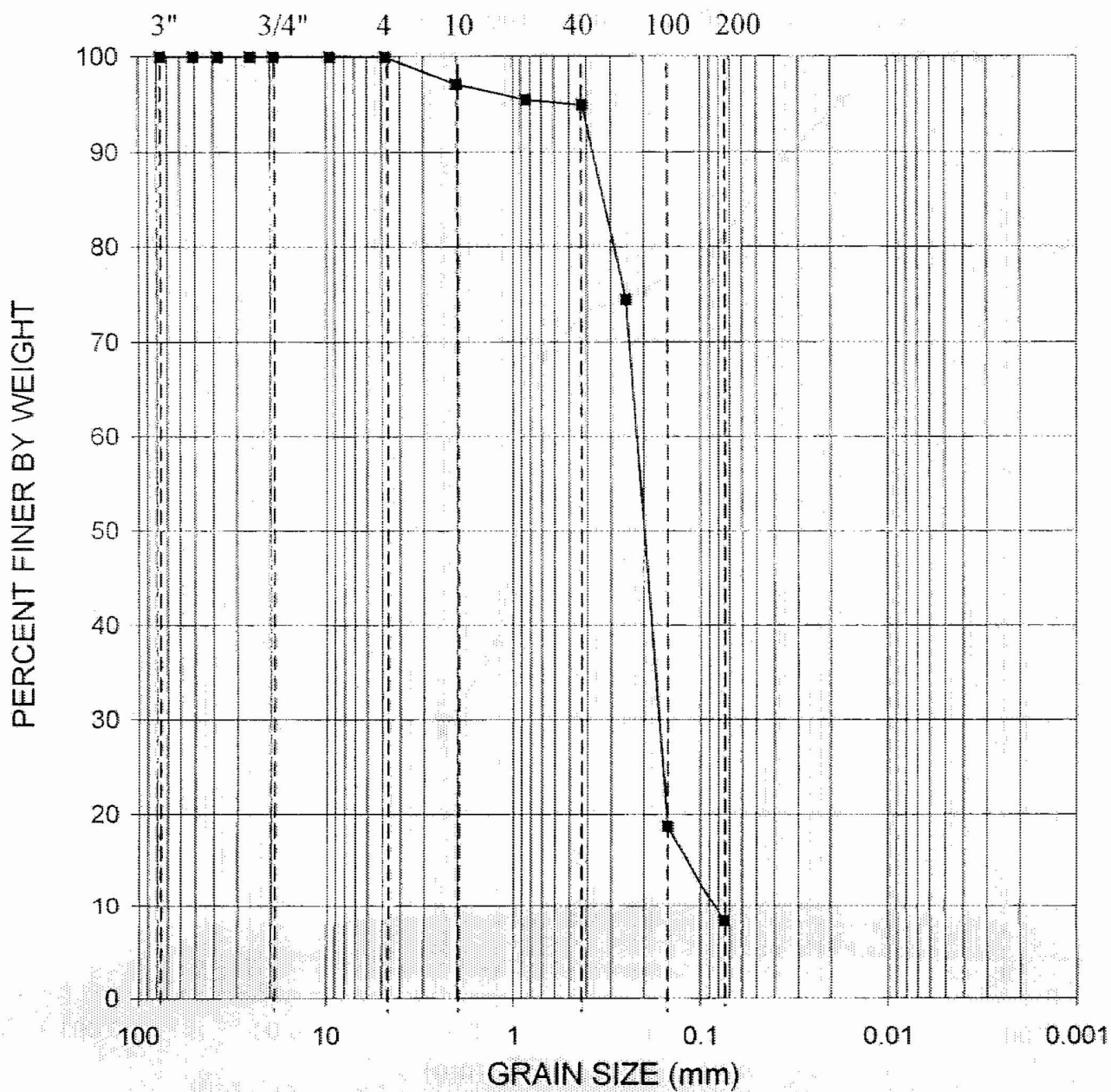
GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

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-440	13.5	Silty SAND, trace rock fragments and gravel, gray	SM		



U.S. Standard Sieve Nos.



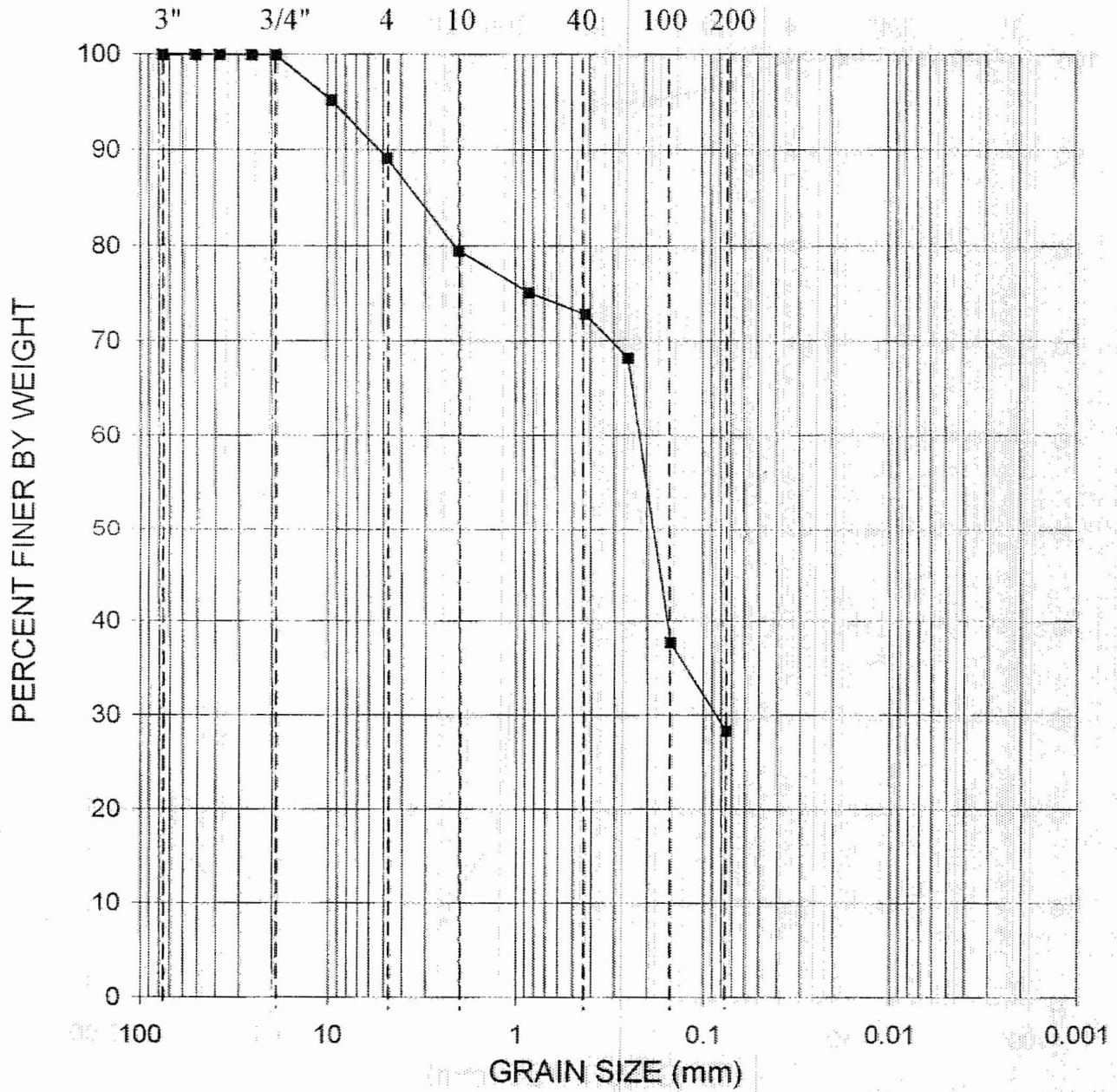
GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00	Date: 10/4/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-440	23.5	Poorly Graded SAND, with silt, light green	SP-SM		



U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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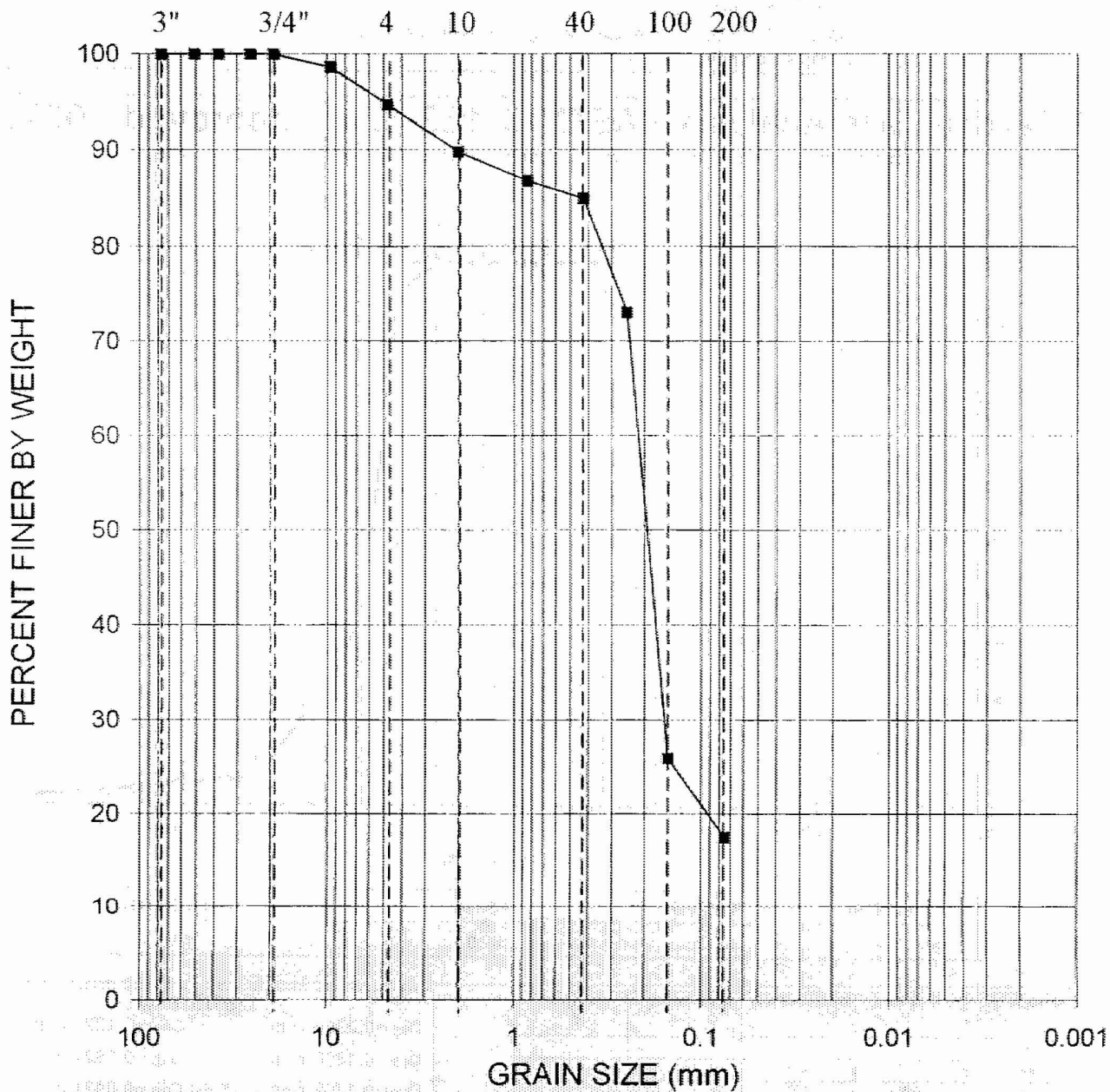
GRADATION CURVE

ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	10/4/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-440	33.5	Silty SAND, trace shells, green	SM				




U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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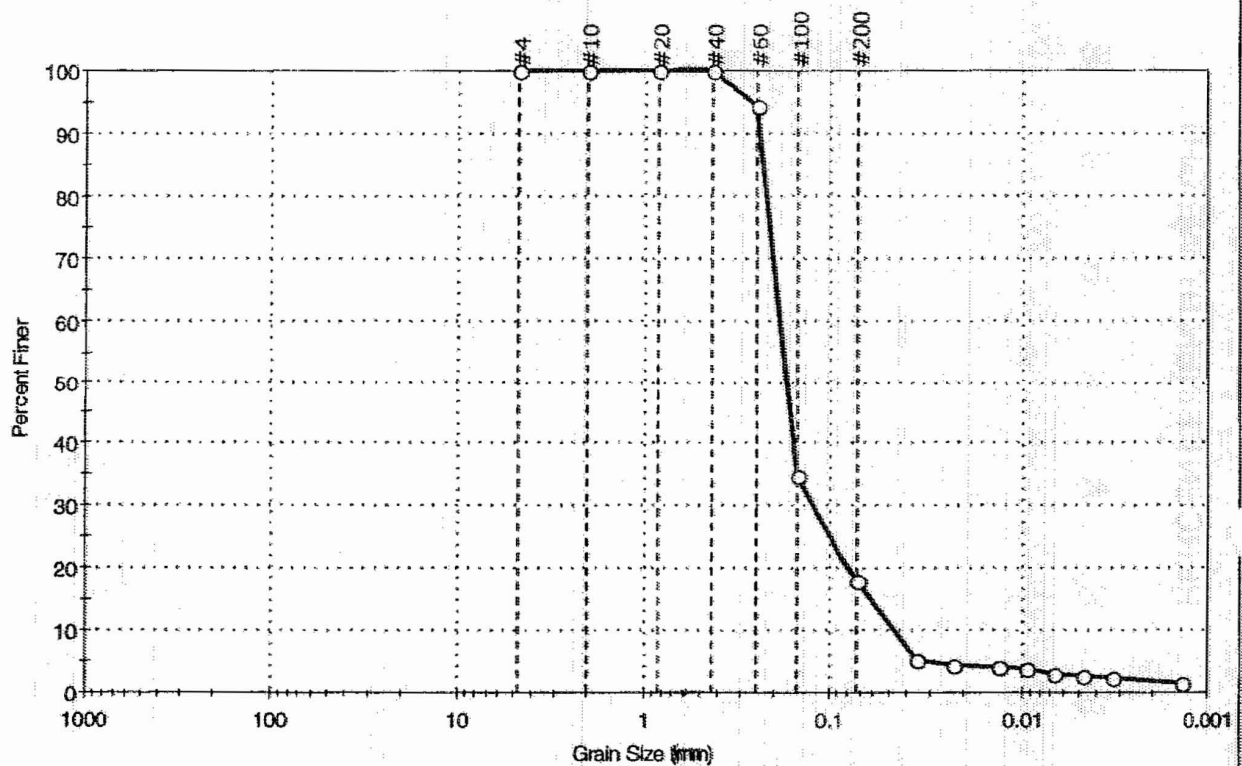
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	10/4/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-440	43.5	Silty SAND, trace shells, green	SM			

Client: Schnabel Engineering, Inc.	Project No: GTX-6880
Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Tested By: sam
Location: Calvert County, MD	Checked By: mcm
Boring ID: B-440	Sample Type: tube
Sample ID: S-14	Test Date: 10/25/06
Depth: 51-53 ft	Test ID: 101391
Test Comment: ---	
Sample Description: Molst, dark greenish gray clayey sand	
Sample Comment: ---	

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	82.0	18.0

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	94		
#100	0.15	35		
#200	0.074	18		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0361	5		
---	0.0230	5		
---	0.0133	4		
---	0.0094	4		
---	0.0067	3		
---	0.0047	3		
---	0.0033	2		
---	0.0014	2		

**Coefficients**

D <sub>85</sub> = 0.2306 mm	D <sub>30</sub> = 0.1225 mm
D <sub>60</sub> = 0.1856 mm	D <sub>15</sub> = 0.0624 mm
D <sub>50</sub> = 0.1702 mm	D <sub>10</sub> = 0.0471 mm
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

**Classification**

ASTM Clayey sand (SC)

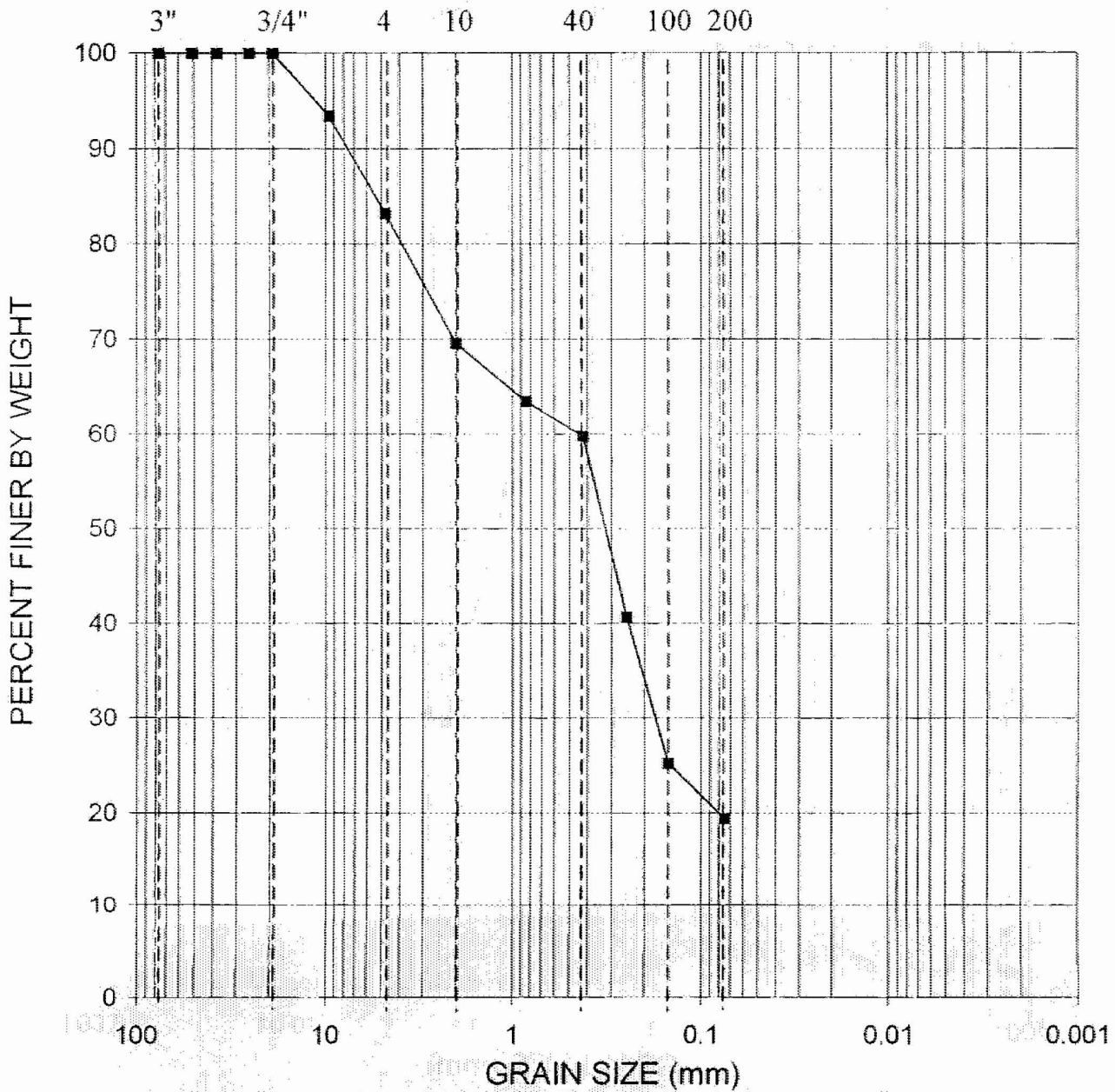
AASHTO Silty Gravel and Sand (A-2-4 (0))

**Sample/Test Description**

Sand/Gravel Particle Shape : ---

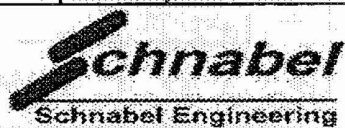
Sand/Gravel Hardness : ---

U.S. Standard Sieve Nos.



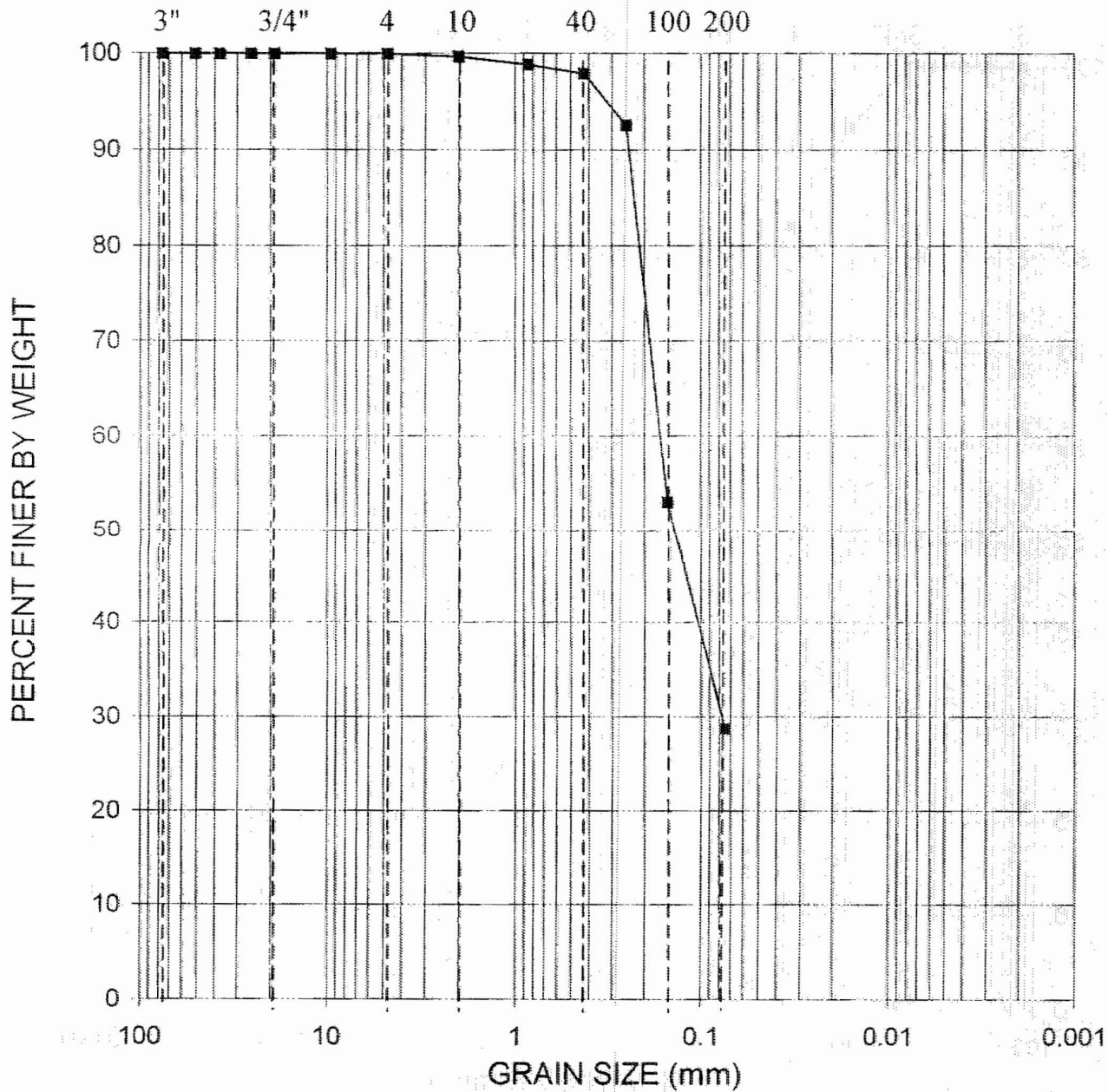
GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

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-440	63.5	Silty SAND, with shells, 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.:	00120048.00	Date:	10/1/2015
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-440	78.5	Silty SAND, contains shells, green	SM				