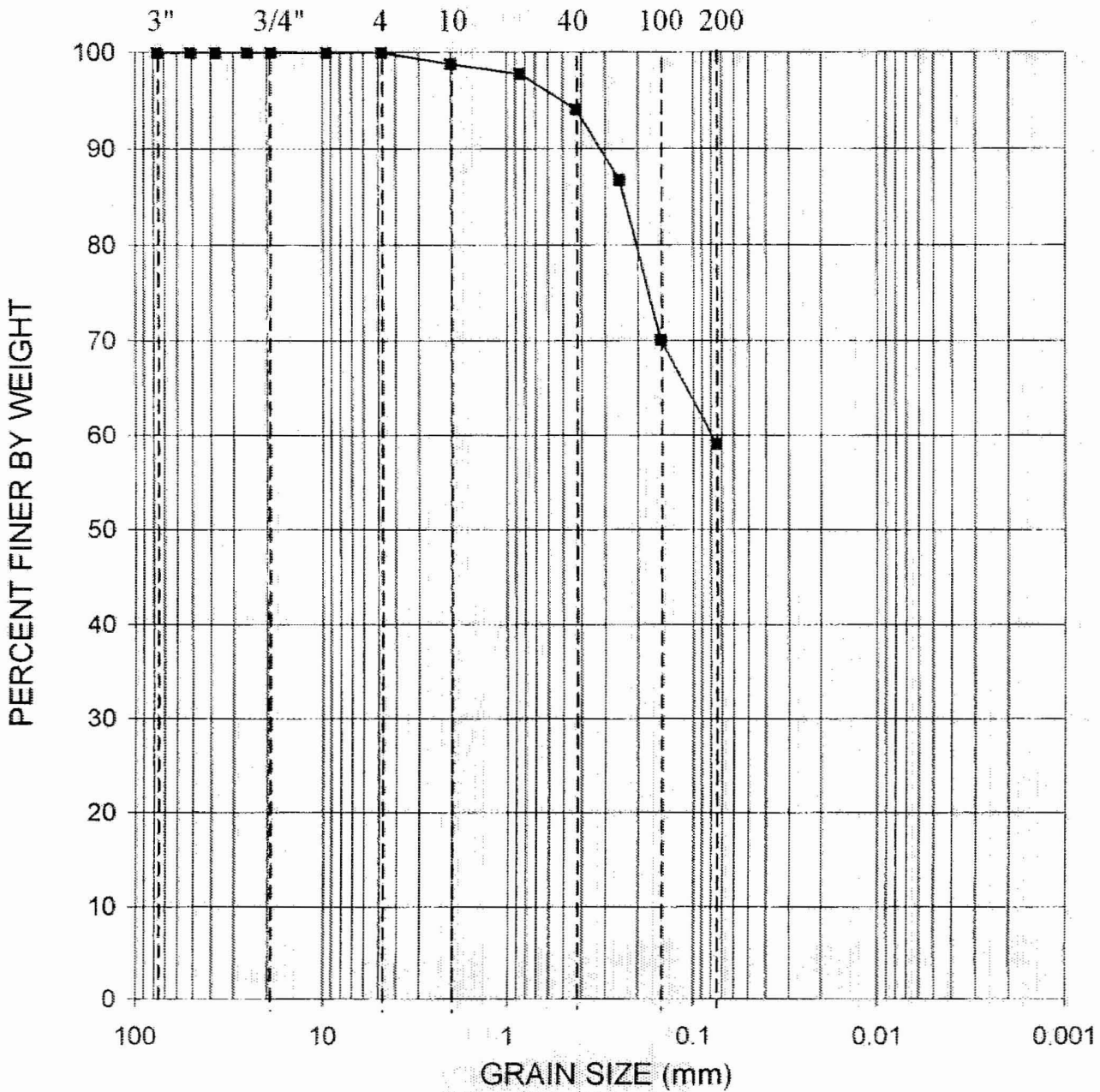


U.S. Standard Sieve Nos.



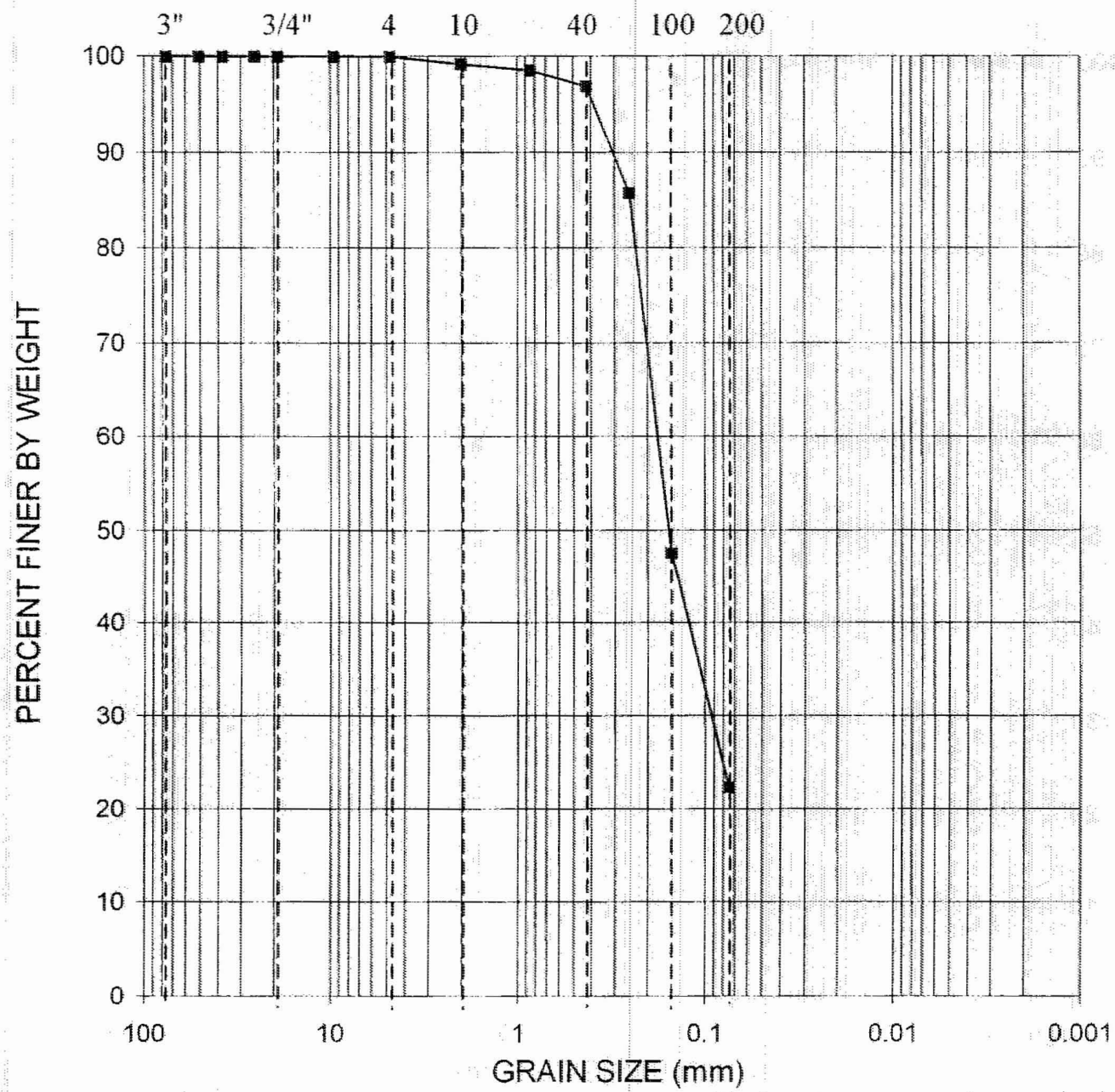
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

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	183.5	Sandy ELASTIC SILT, dark green	MH	154	57



U.S. Standard Sieve Nos.



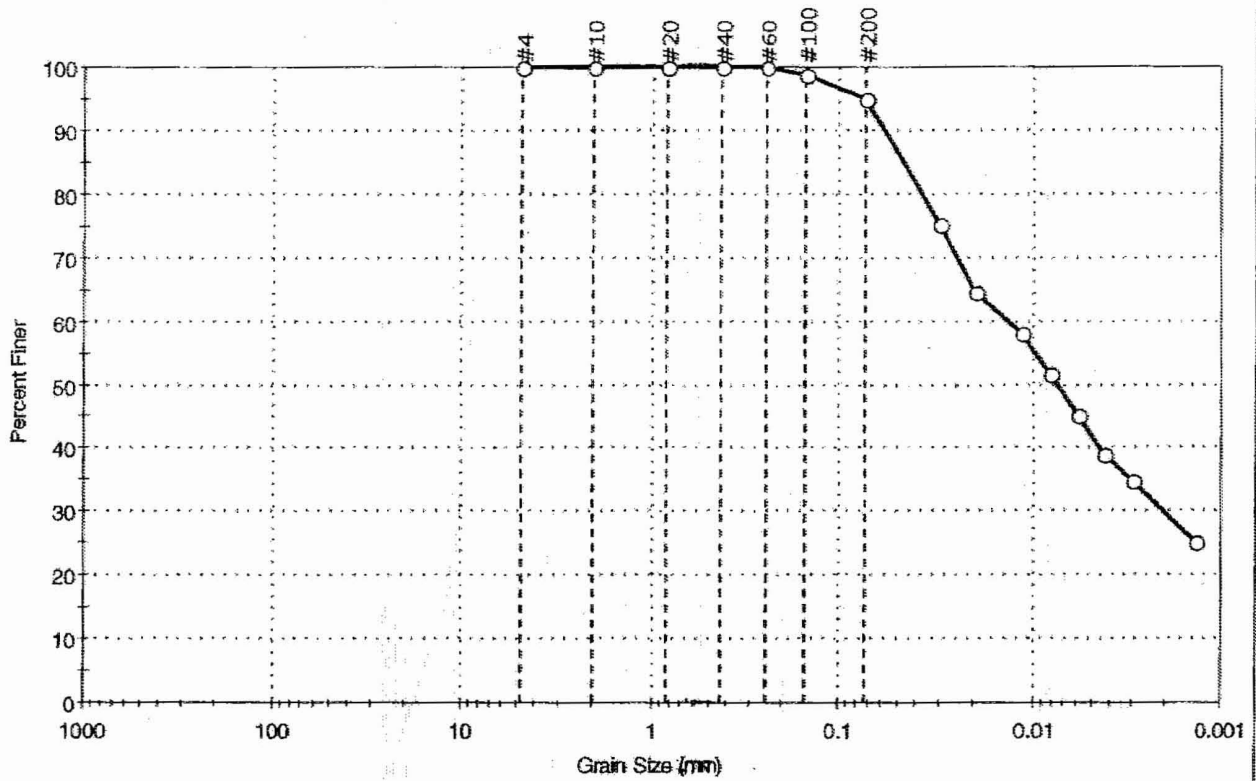
GRAVEL SAND SILT OR CLAY

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	198.5	Silty SAND, contains shells, green	SM				

Client: Schnabel Engineering, Inc.	Project No: GTX-6880
Project: Subsurface Investigation Calvert Cliffs Nuclear PP	
Location: Calvert County, MD	
Boring ID: B-411	Sample Type: tube
Sample ID: S-8	Test Date: 10/17/06
Depth: 23.5-25.5 ft	Test ID: 100604
Test Comment: ---	
Sample Description: Moist, 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	5.0	95.0

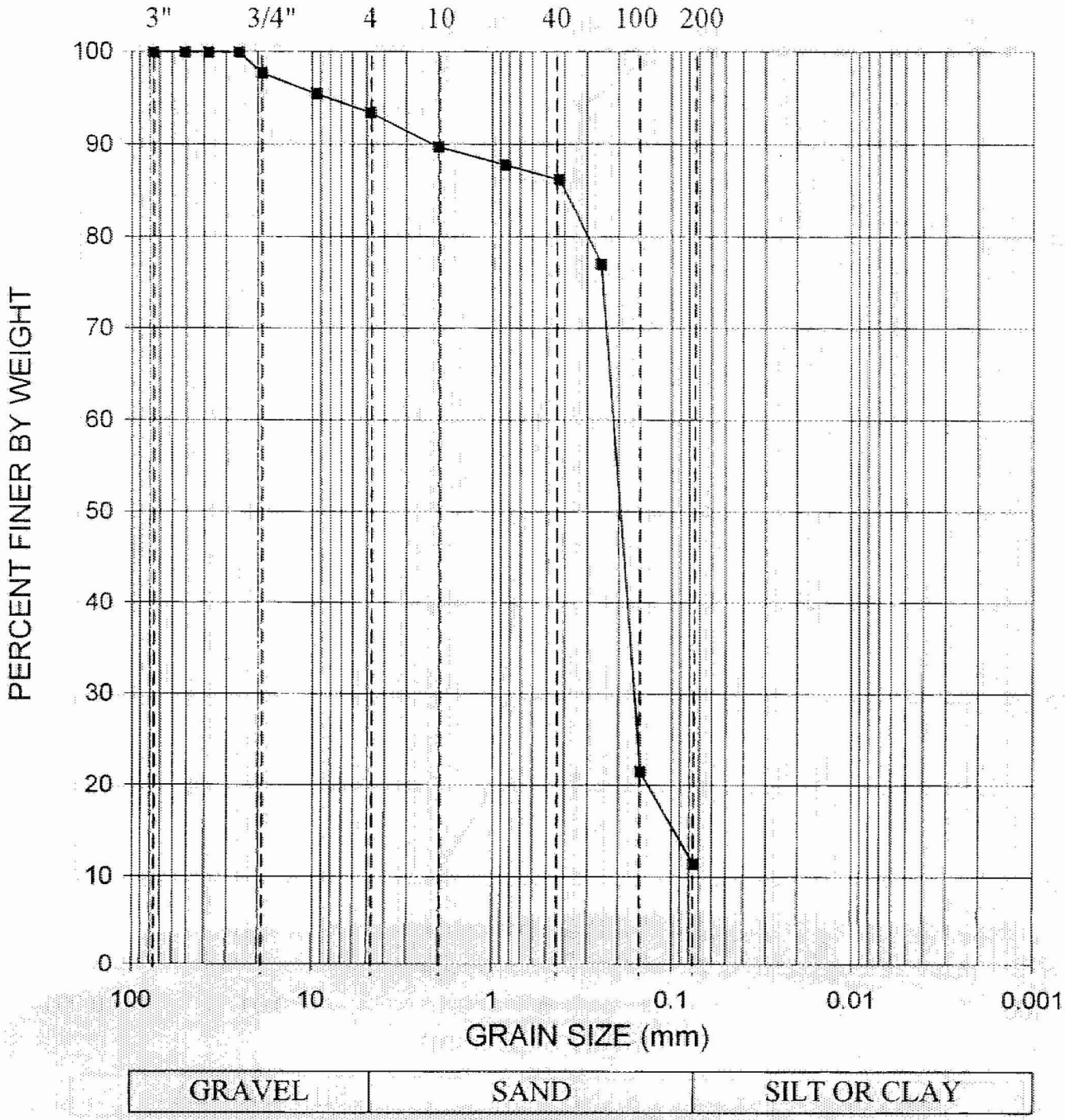
Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.425	100		
#60	0.25	100		
#100	0.15	99		
#200	0.075	95		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0304	75		
---	0.0195	64		
---	0.0114	58		
---	0.0082	52		
---	0.0059	45		
---	0.0043	39		
---	0.0030	35		
---	0.0014	25		

Coefficients	
D ₈₅ = 0.0472 mm	D ₃₀ = 0.0020 mm
D ₆₀ = 0.0134 mm	D ₁₅ = N/A
D ₅₀ = 0.0076 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification	
ASTM	organic clay (OH)
AASHTO	Clayey Soils (A-7-6 (48))

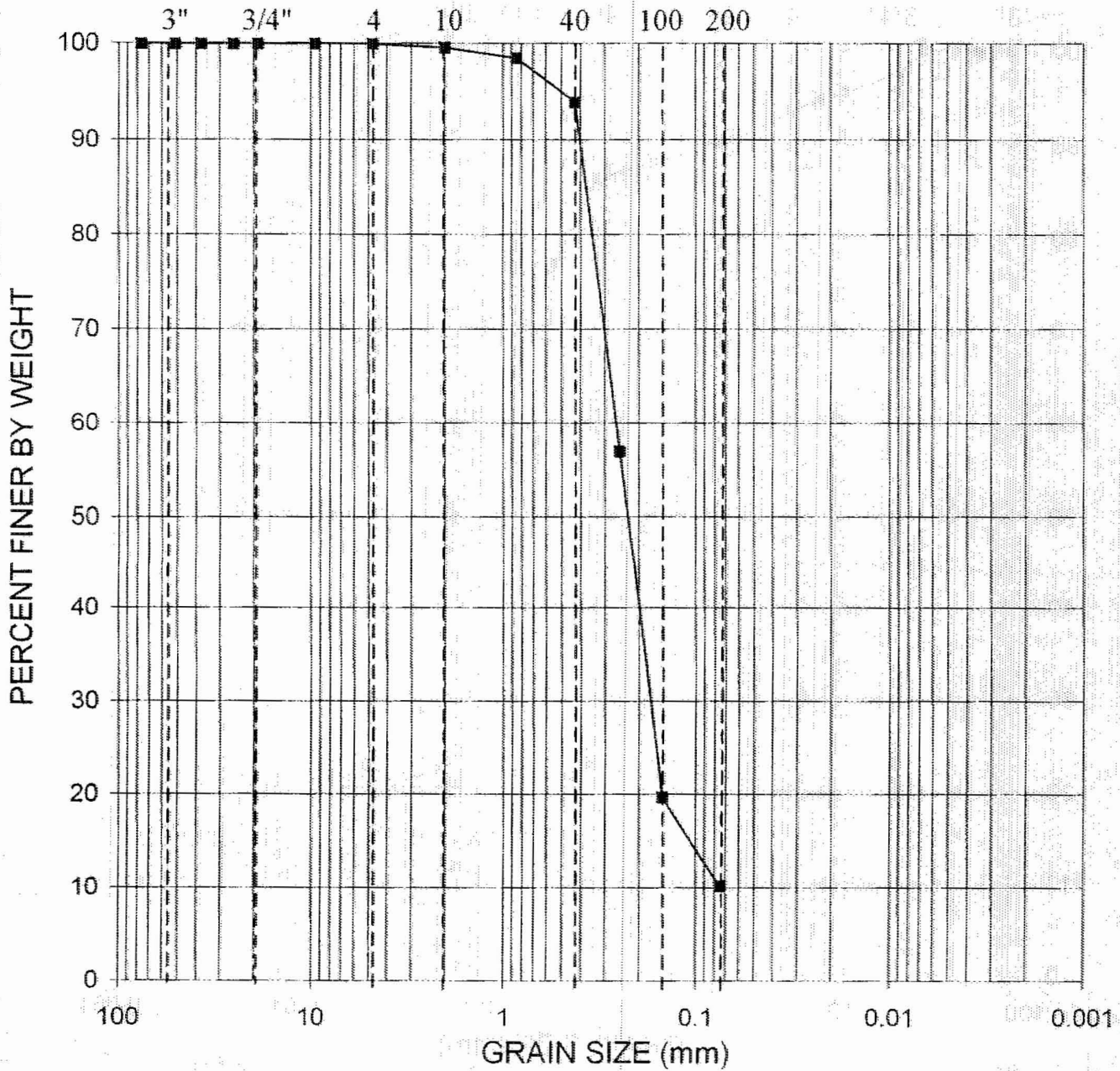
Sample/Test Description	
Sand/Gravel Particle Shape :	---
Sand/Gravel Hardness :	---

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:	10/3/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-411	63.5	Poorly Graded SAND, with silt, trace shells, gray	SP-SM				

U.S. Standard Sieve Nos.



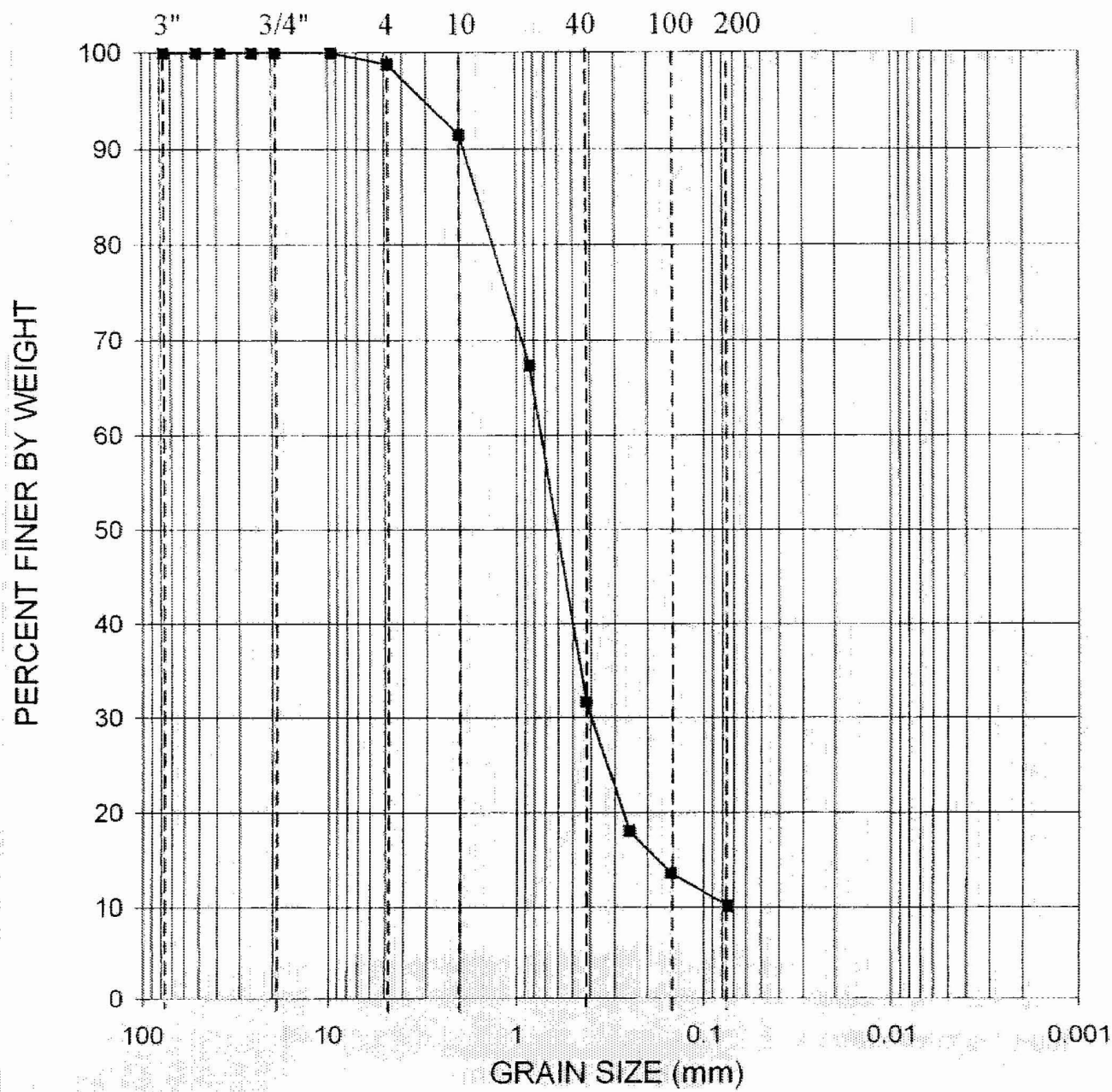
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048 00	Date:	9/13/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-413	7.5	Poorly Graded SAND, with silt, tan	SP-SM				

U.S. Standard Sieve Nos.



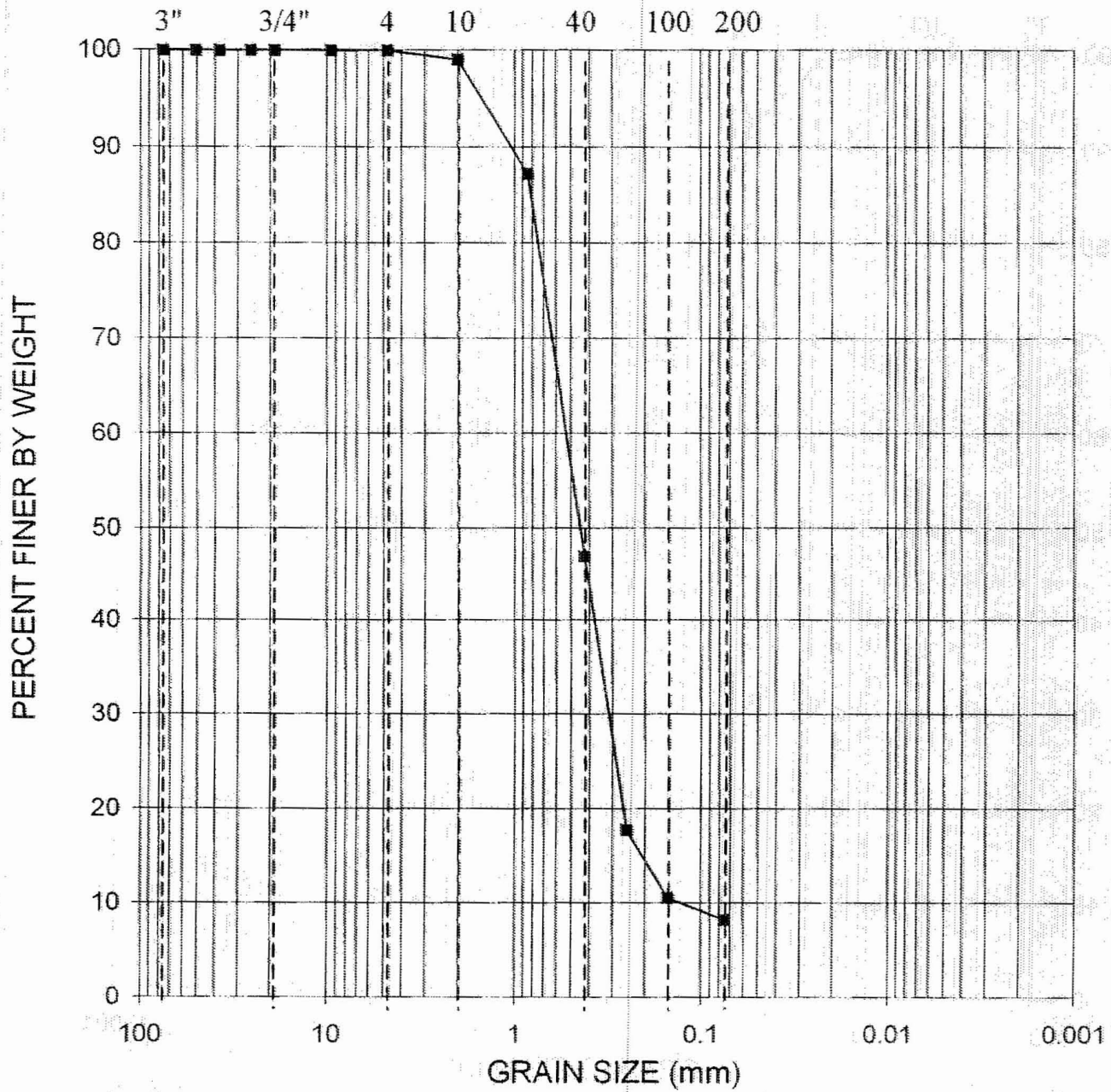
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No. 06120048.00	Date: 9/12/2006
Boring No.	Depth (ft)	Sample Description	Class. LL PI
B-413	18.5	Poorly Graded SAND, with silt, brown	SP-SM



U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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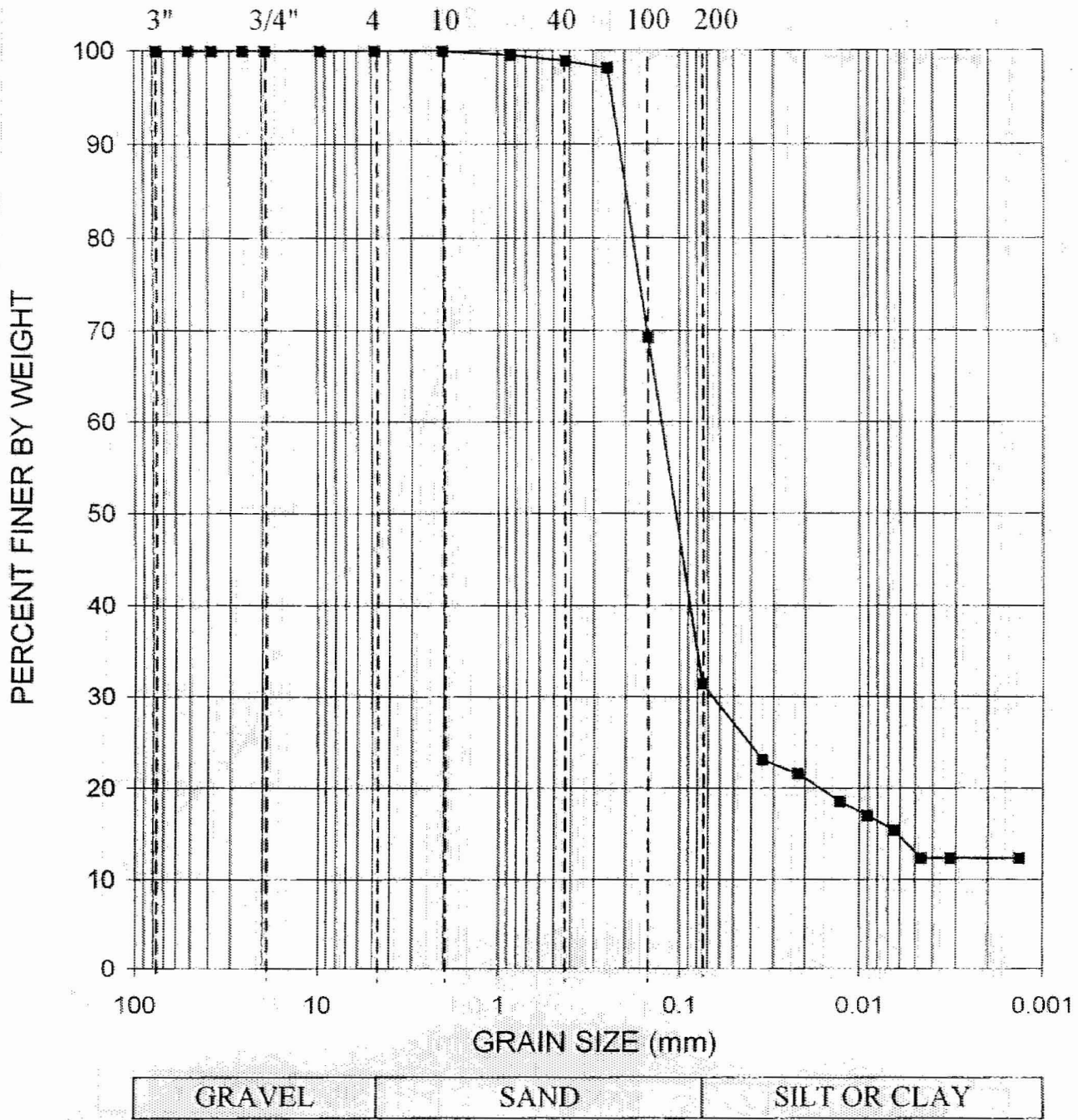
GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No.:	06120048.00	Date:	9/12/2006
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Boring No.	Depth (ft)	Sample Description	Class	LL	PI
B-413	33.5	Poorly Graded SAND, with silt, brown	SP-SM		



U.S. Standard Sieve Nos.

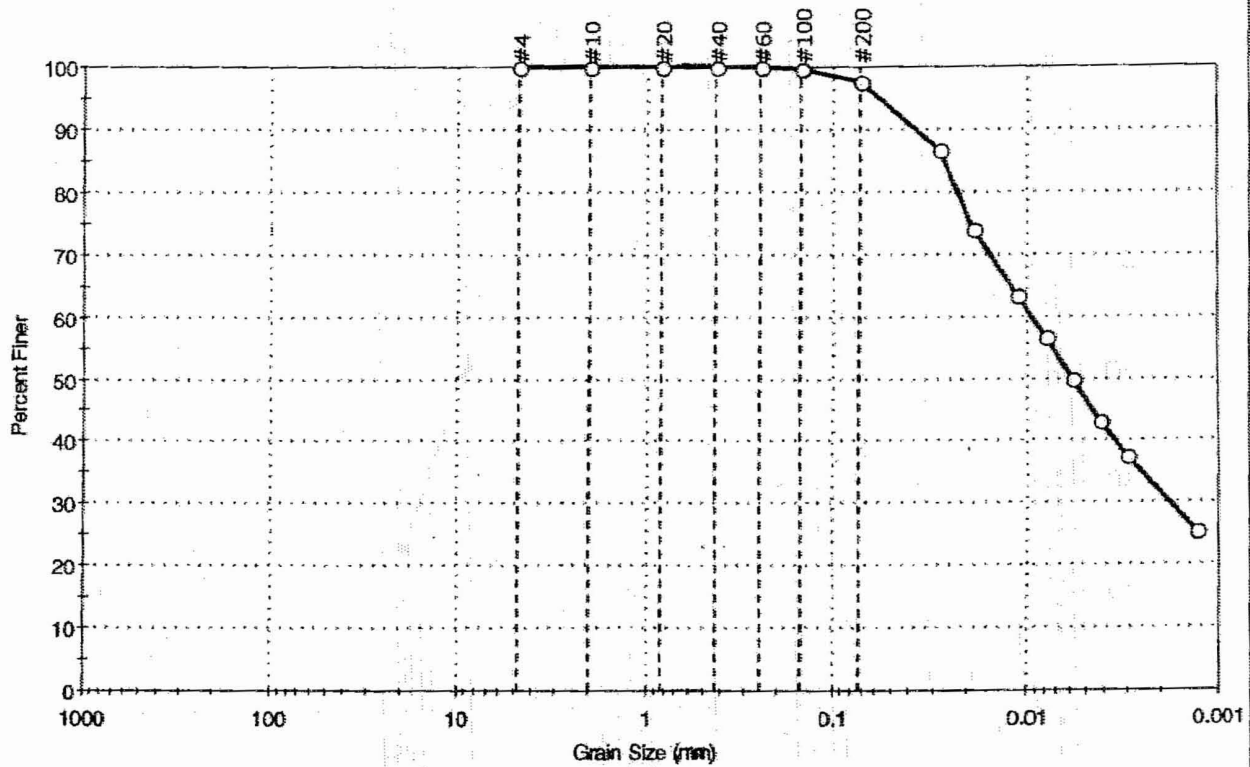


GRADATION CURVE
ASTM D422

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-413	48.5	Silty SAND, light brown	SM	NP	NP		

Client: Schnabel Engineering, Inc.	Project No: GTX-6880
Project: Subsurface Investigation Calvert Cliffs Nuclear PP	
Location: Calvert County, MD	
Boring ID: B-413	Sample Type: tube
Sample ID: S-17	Test Date: 11/07/06
Depth: 73.0-75.0 ft	Test Id: 98060
Tested By: sam	Checked By: mcm
Test Comment: ---	
Sample Description: Moist, dark greenish gray clay	
Sample Comment: ---	

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	2.5	97.5

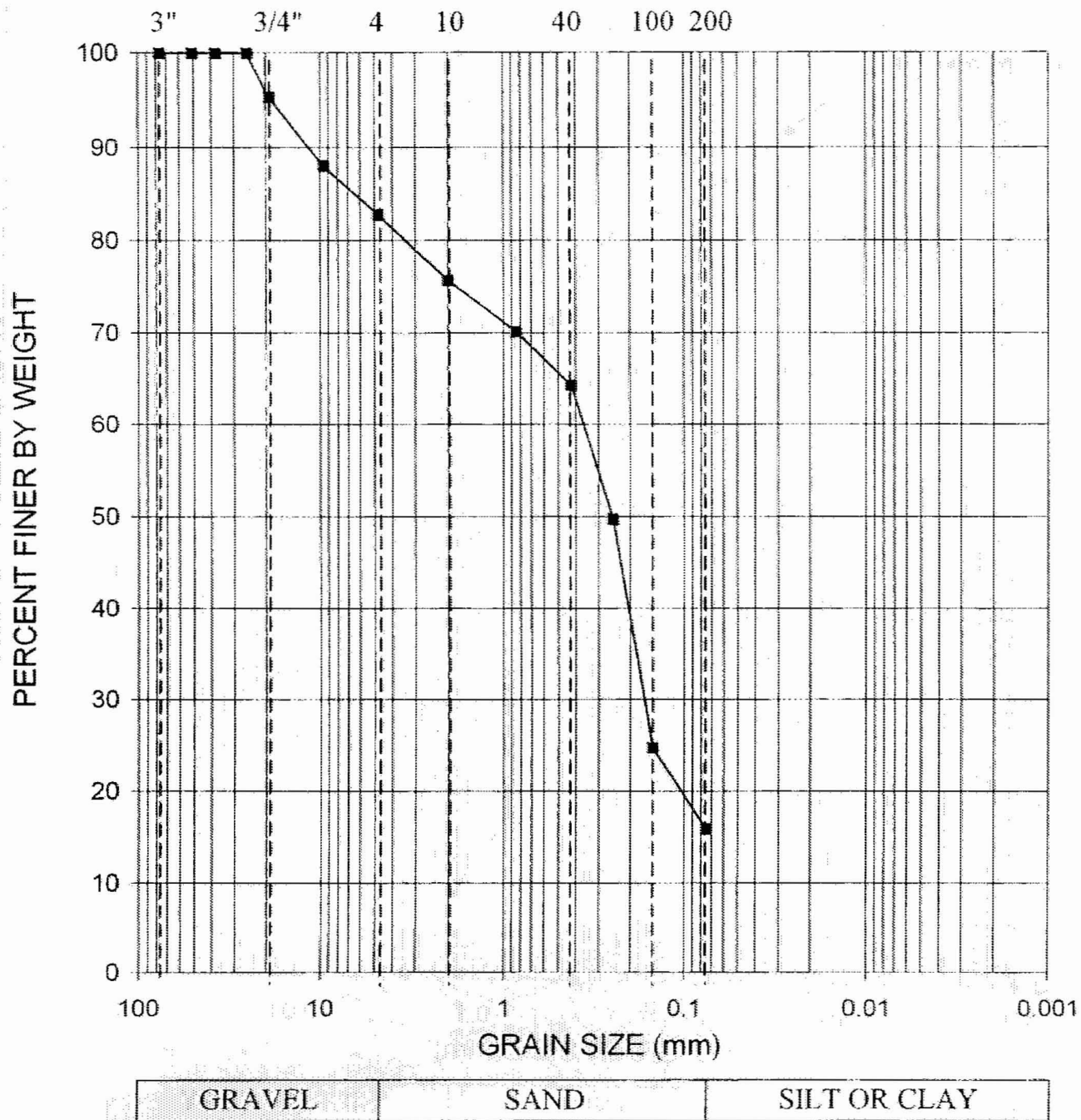
Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.074	98		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0285	87		
---	0.0187	74		
---	0.0111	64		
---	0.0080	57		
---	0.0058	50		
---	0.0042	43		
---	0.0030	37		
---	0.0013	25		

Coefficients	
D ₈₅ = 0.0269 mm	D ₃₀ = 0.0018 mm
D ₆₀ = 0.0094 mm	D ₁₅ = N/A
D ₅₀ = 0.0059 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification	
ASTM	fat clay (CH)
AASHTO	Clayey Soils (A-7-6 (51))

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

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:	9/12/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-413	98.5	Silty SAND, with shells, gray	SM			

