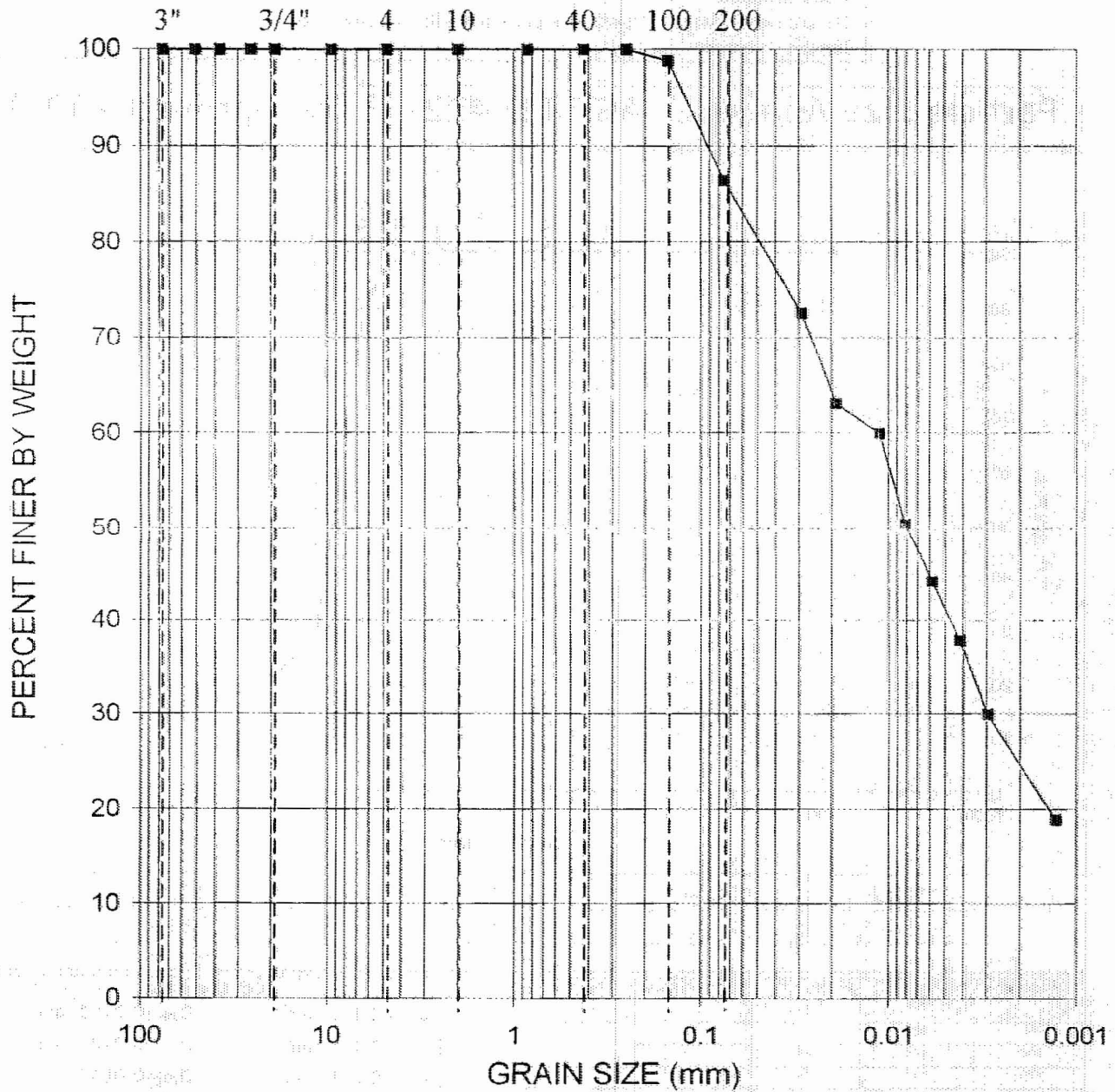


U.S. Standard Sieve Nos.



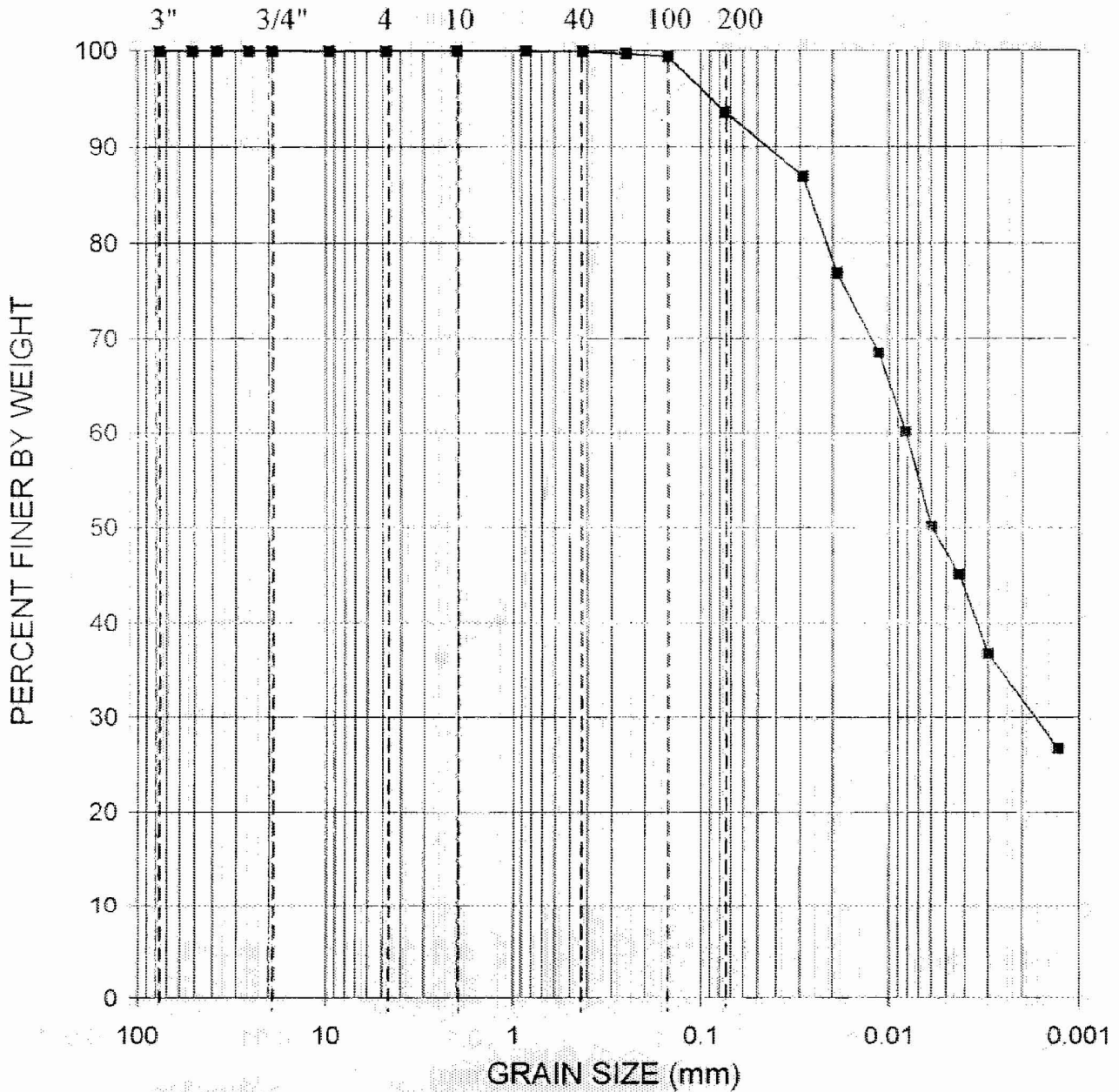
GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project:		Constellation Energy Group, 2010 Design, Culvert C118 Nuclear Power Plant (CNPP), Culvert County, Maryland			
Boring No.	Depth (ft)	Sample Description	Class	LL	PI
B-746	23.5	FAT CLAY, trace sand, dark gray	CH	52	35



U.S. Standard Sieve Nos.



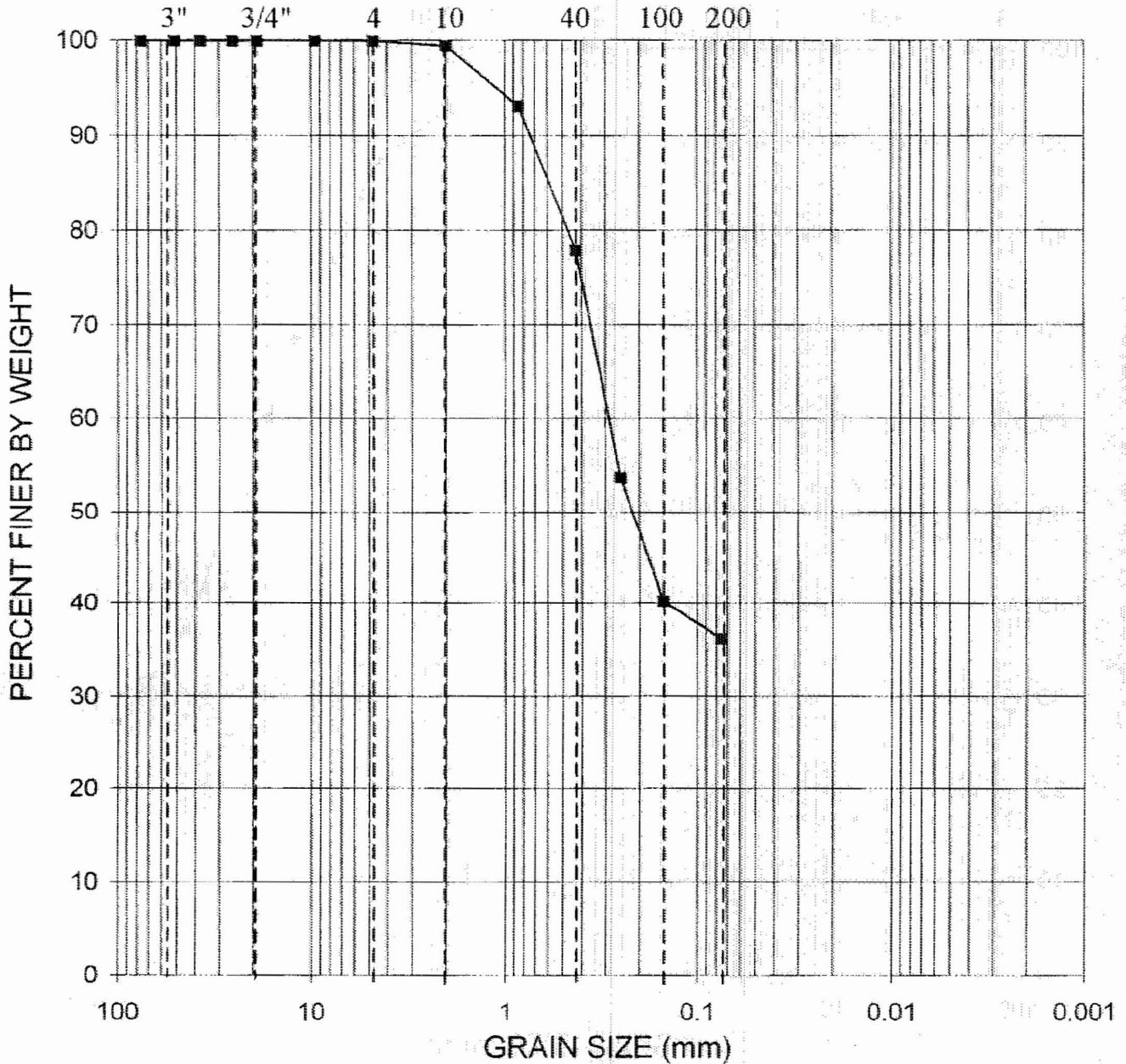
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Client: Great Falls Nuclear Power Plant (GNPP) Calvert County, Maryland		Contract No. 06120048	Date: 10/18/2006
Boring No.	Depth (ft.)	Sample Description	Class
B-746	33.5	FAT CLAY, trace sand, dark gray	CH
		LL	40



U.S. Standard Sieve Nos.

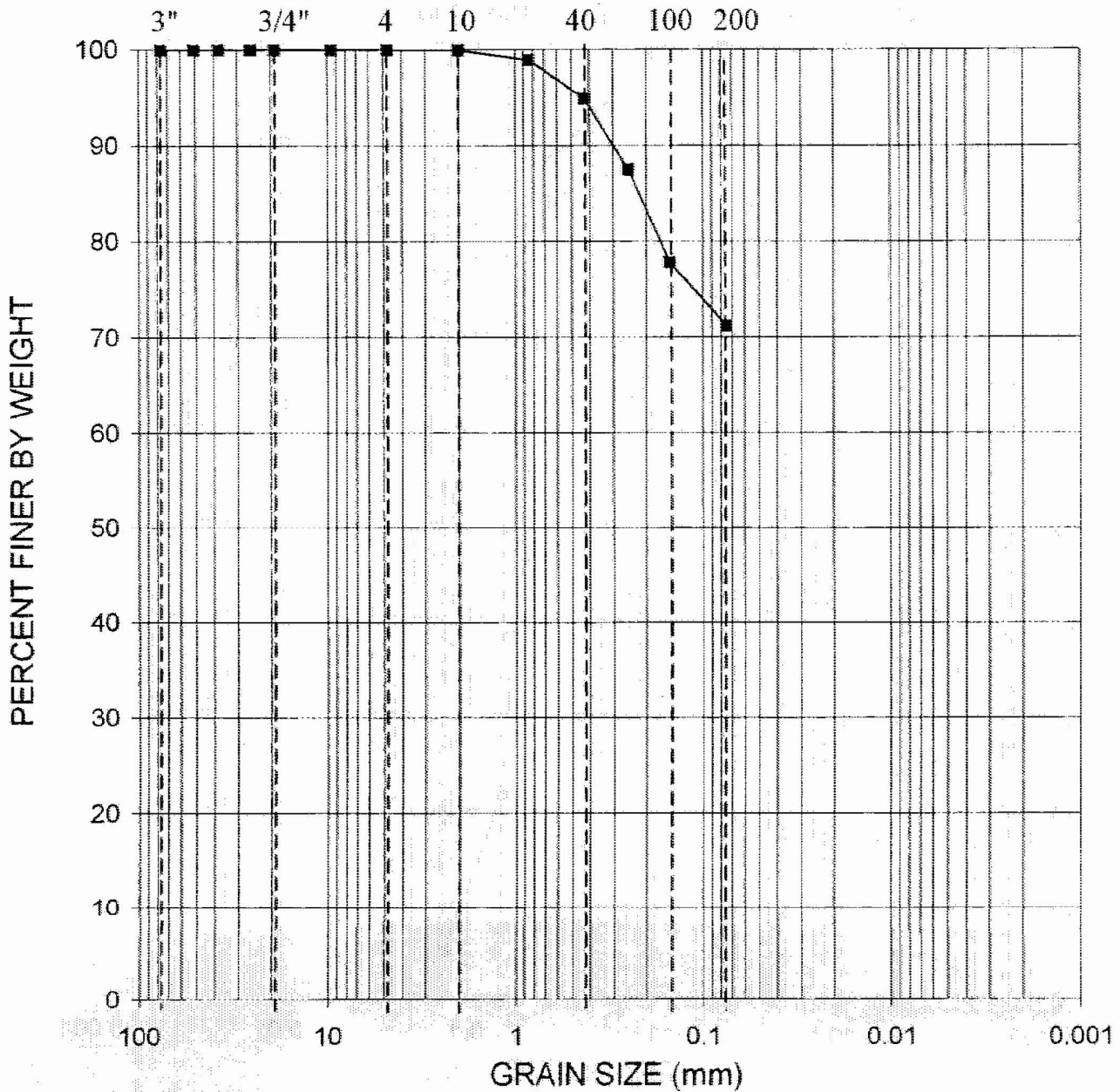


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/22/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-747	2.5	Silty SAND, brown	SM				

U.S. Standard Sieve Nos.

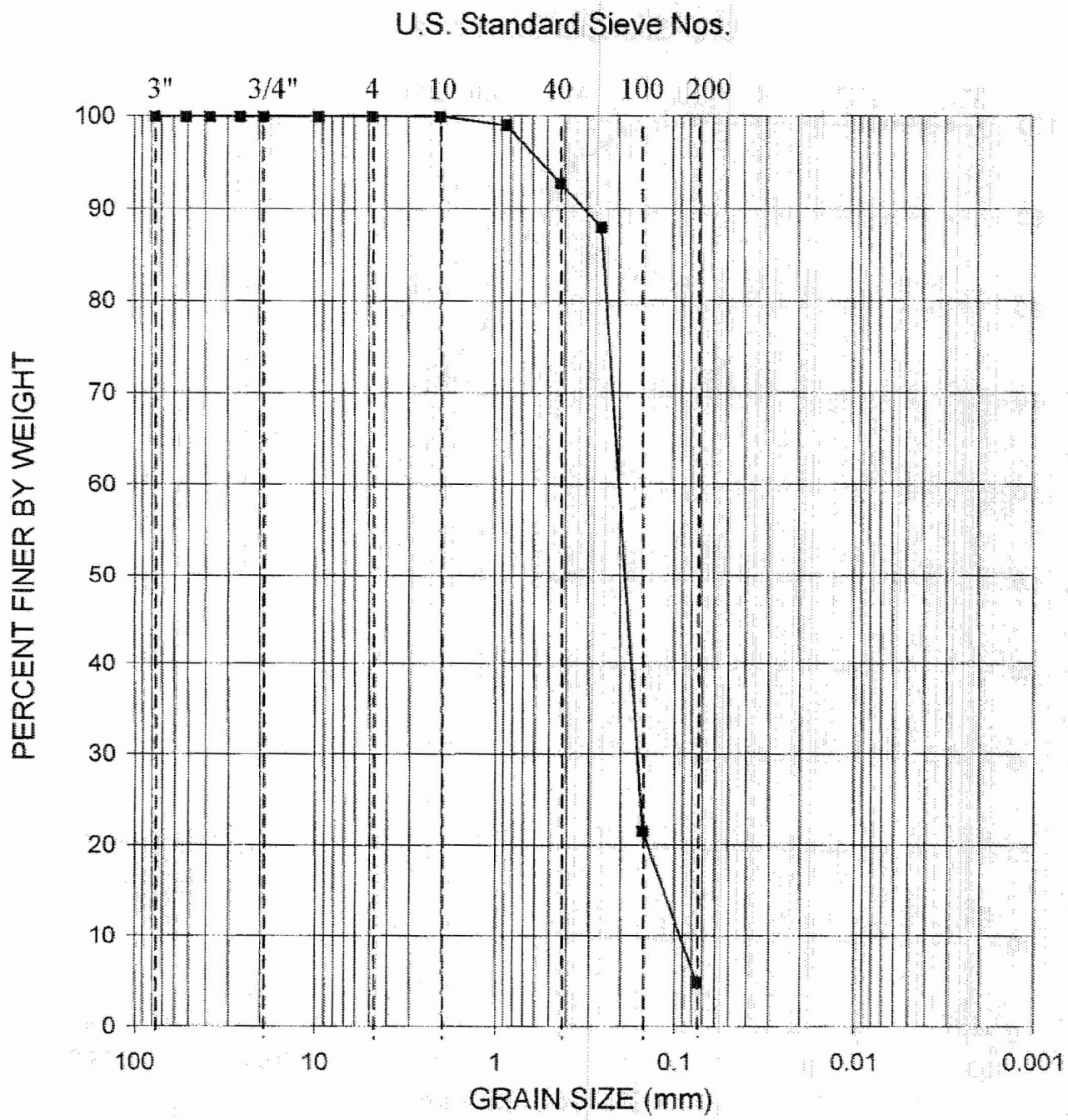


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No. 06120048.00	Date: 9/22/2006
Boring No.	Depth (ft)	Sample Description	Class. LL PI
B-747	5.0	SILT, with sand, brown	ML



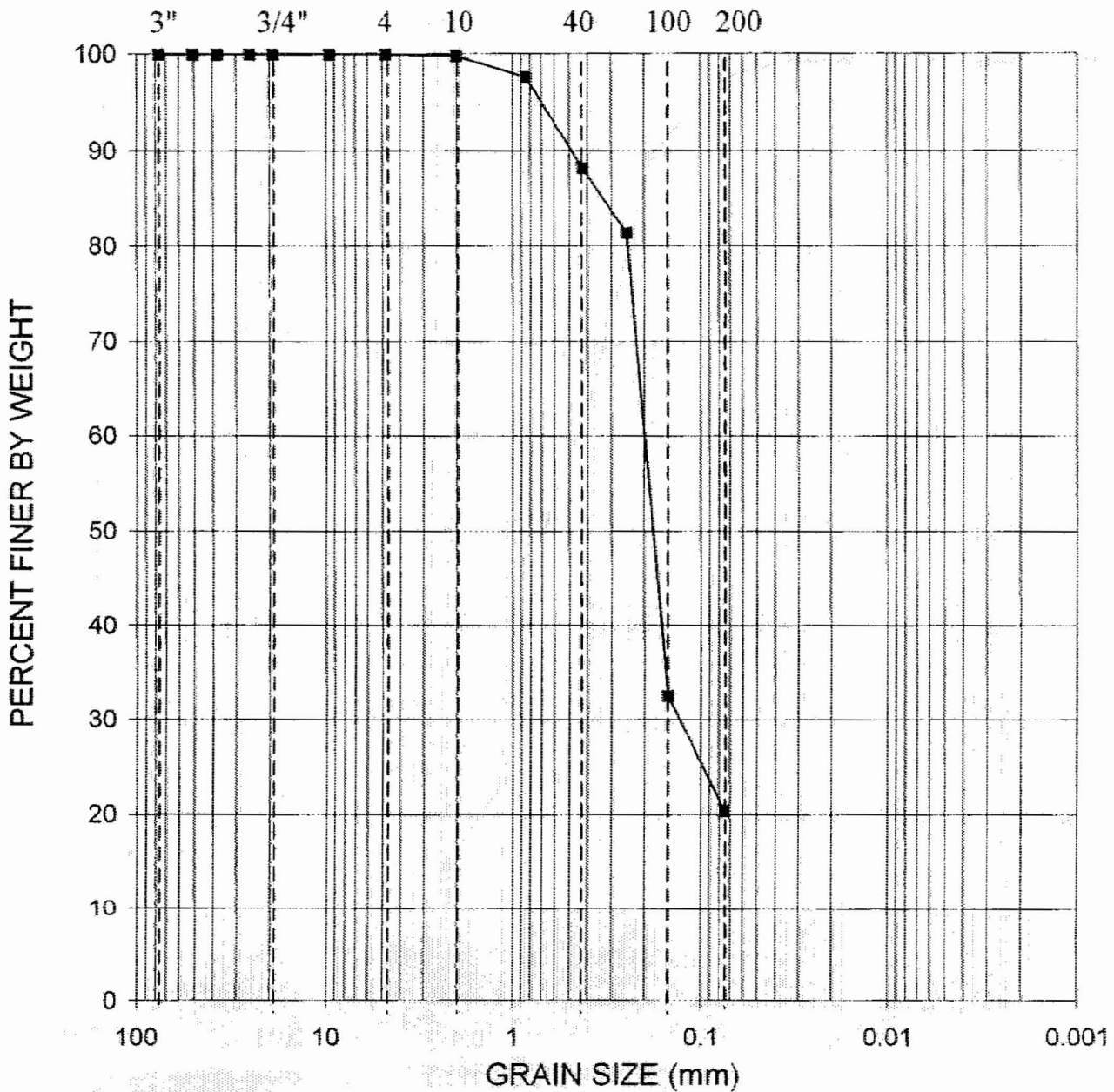


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422


Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date	9/22/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	Schnabel Schnabel Engineering	
B-747	10.5	Poorly Graded SAND, with silt, light brown	SP-SM				

U.S. Standard Sieve Nos.

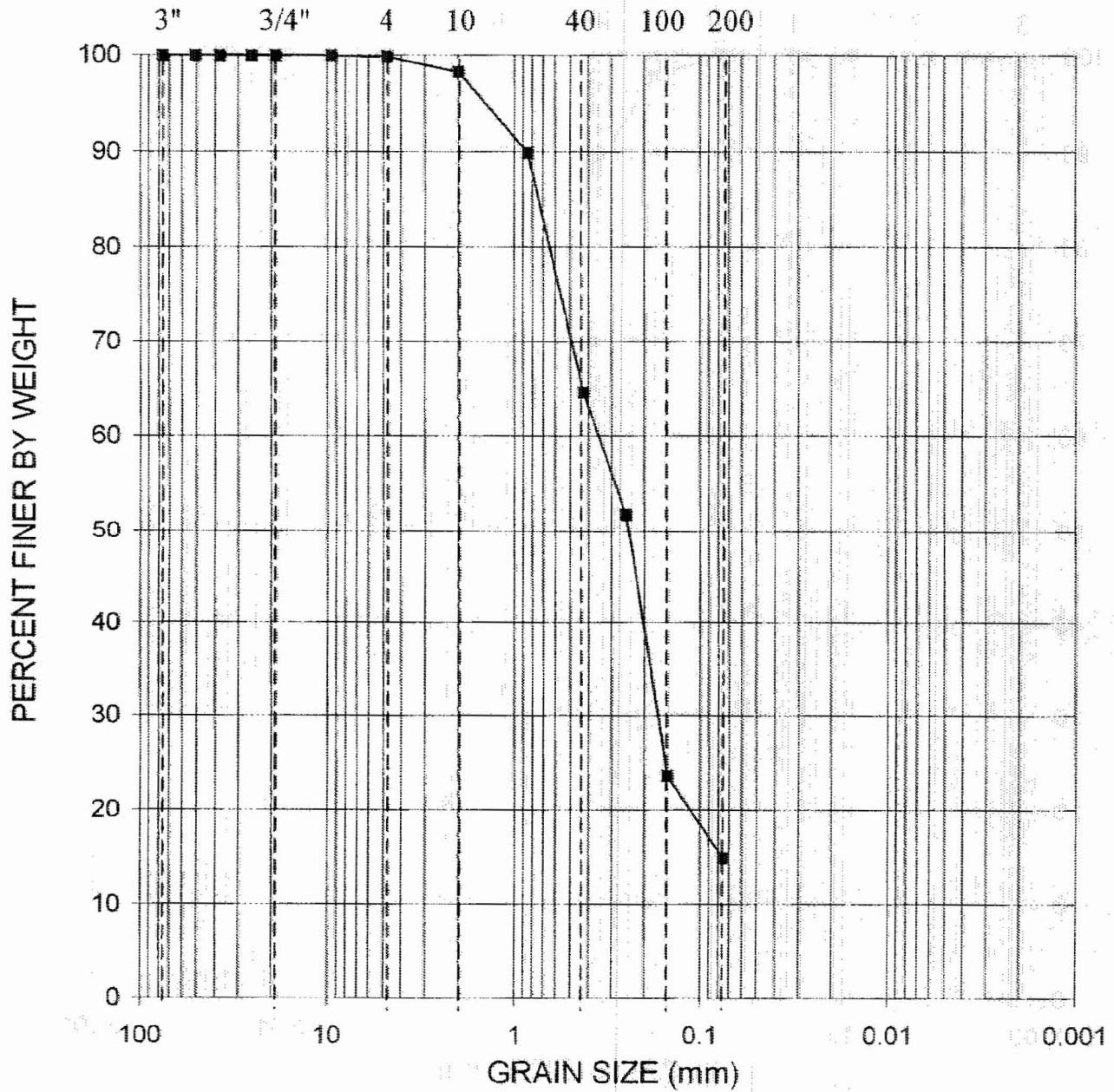


GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project	Constellation Energy Group COLA Project Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date:	9/27/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-747	13.5	Silty SAND, orange-brown	SM				

U.S. Standard Sieve Nos.



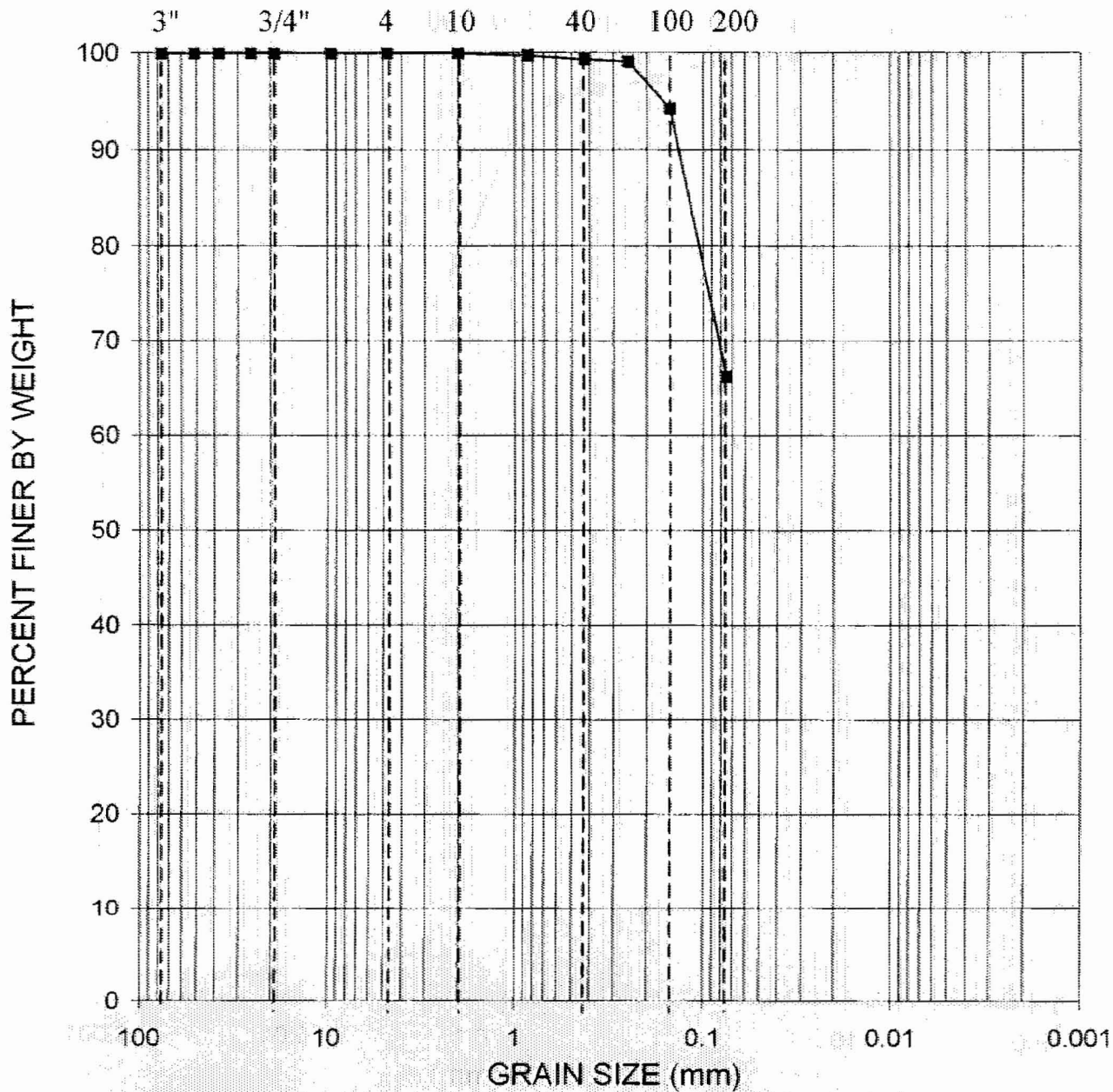
GRAVEL SAND SILT OR CLAY

GRADATION CURVE

ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 9/27/2006	
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-747	18.5	Silty SAND, brown-gray	SM				


U.S. Standard Sieve Nos.

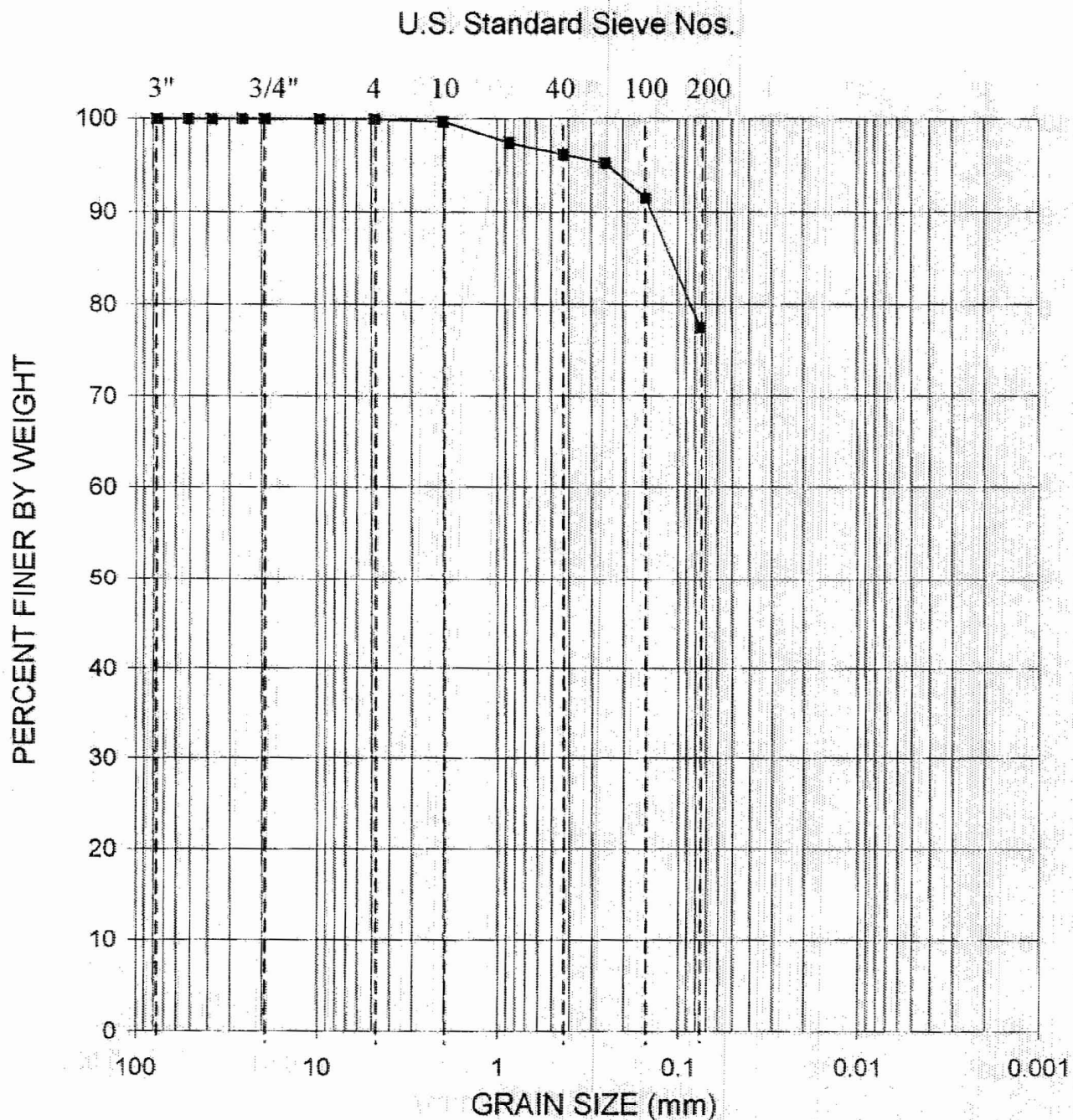


GRAVEL SAND SILT OR CLAY

GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/28/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-747	23.5	Sandy SILT, gray	ML				



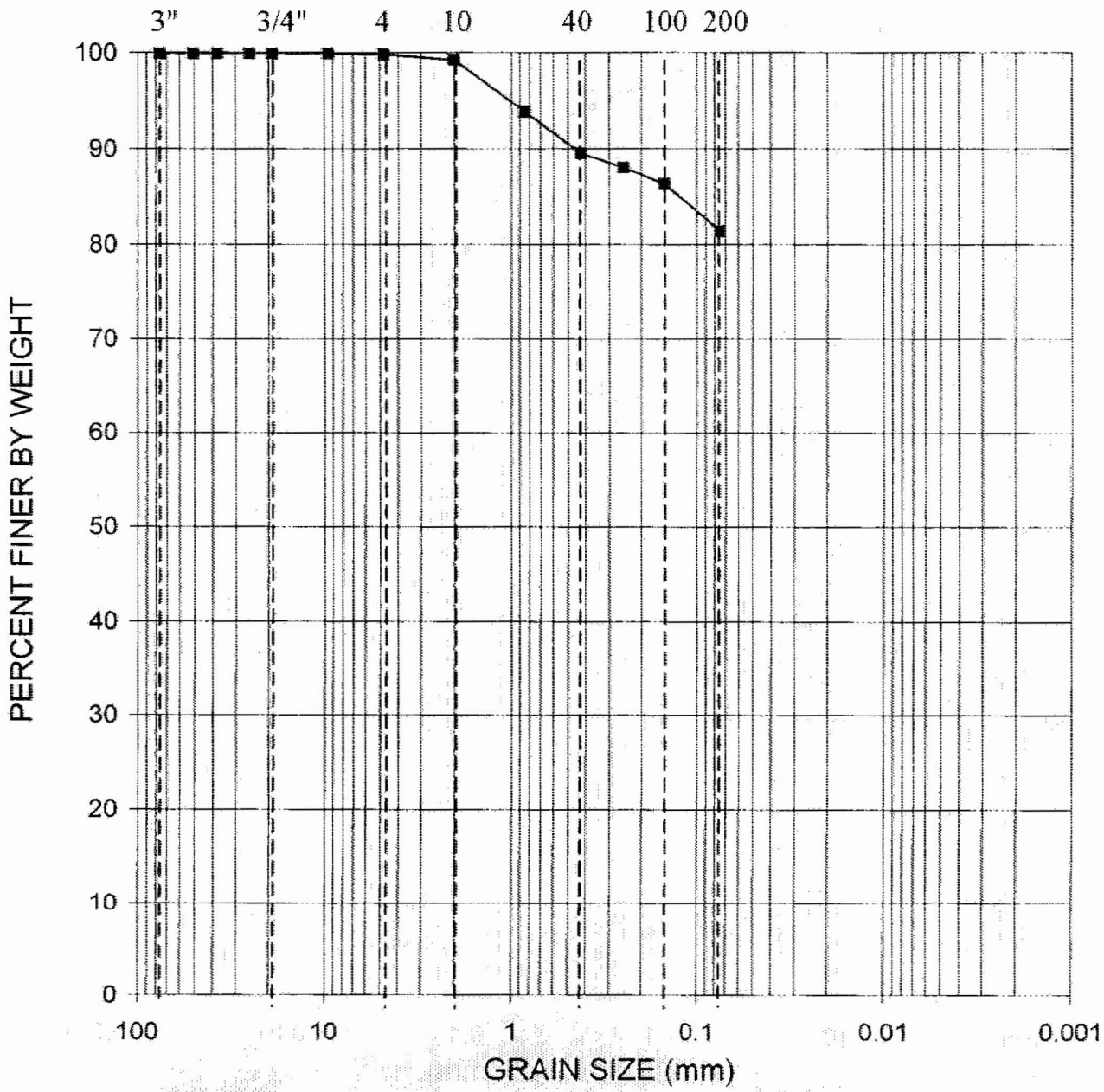
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No. 06120048.00	Date: 9/28/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-747	33.5	FAT CLAY, with sand, dark gray	CH		




U.S. Standard Sieve Nos.

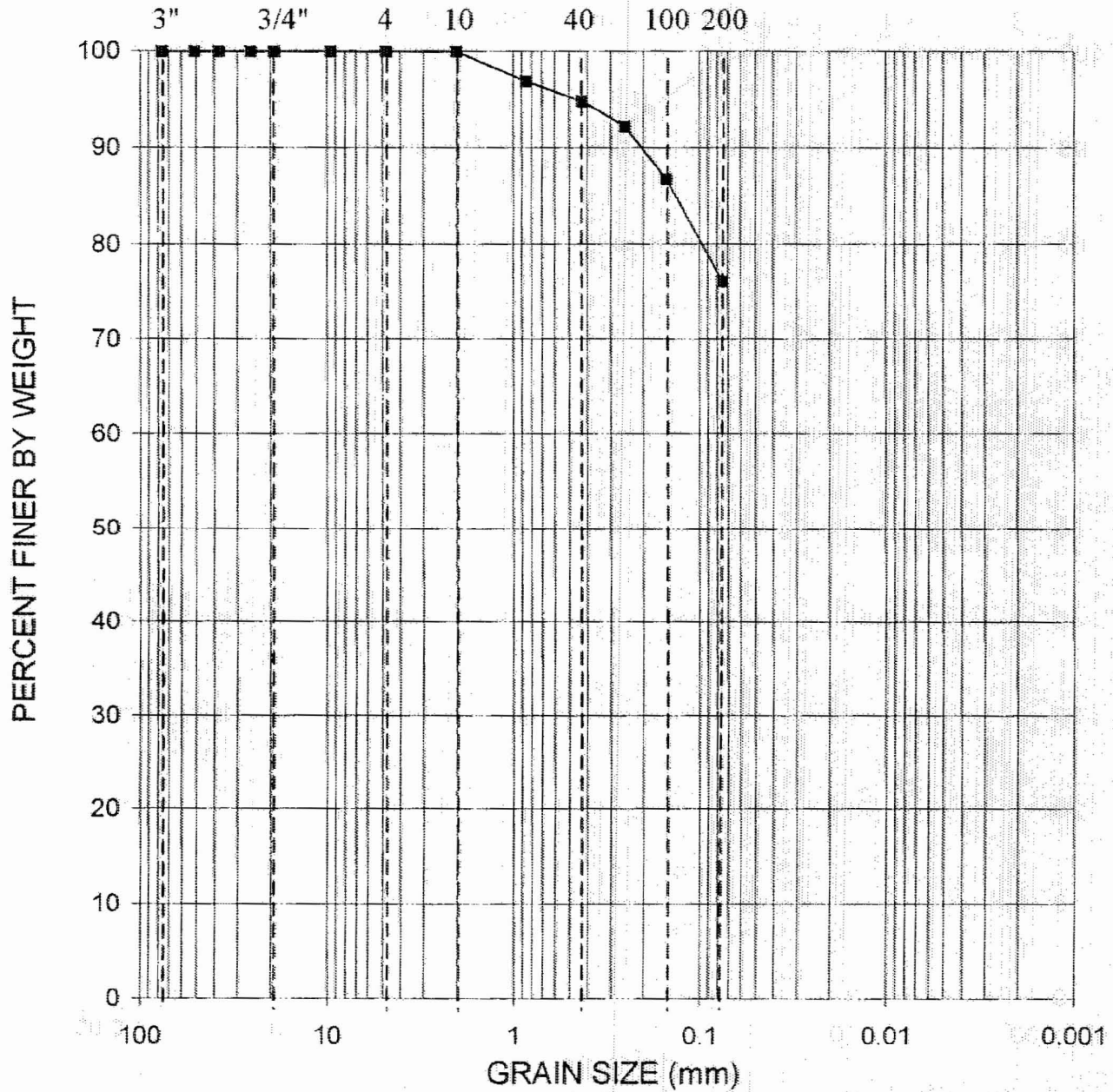


GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 9/28/2006	
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-747	38.5	FAT CLAY, with sand, dark gray	CH				

U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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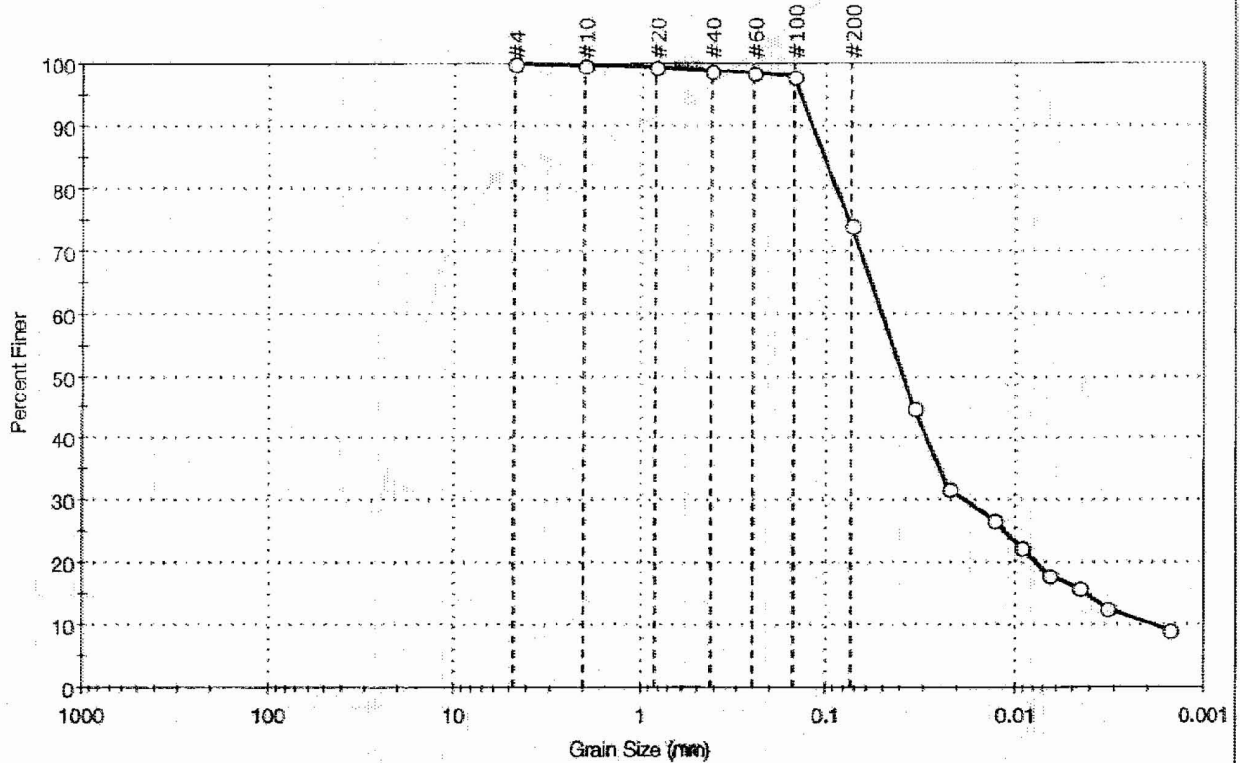
GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No. 06120048.00	Date 9/28/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI
B-747	53.5	ELASTIC SILT, with sand, dark green-gray	MH	78	31



Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Project No: GTX-6880
Location: Calvert County, MD	Boring ID: B-747	Sample Type: tube
Sample ID: S-15	Test Date: 09/29/06	Tested By: sam
Depth: 58.5-60 ft	Test ID: 99170	Checked By: mcm
Test Comment: ---		
Sample Description: Moist, dark olive gray clay with sand		
Sample Comment: ---		

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.0	25.8	74.2

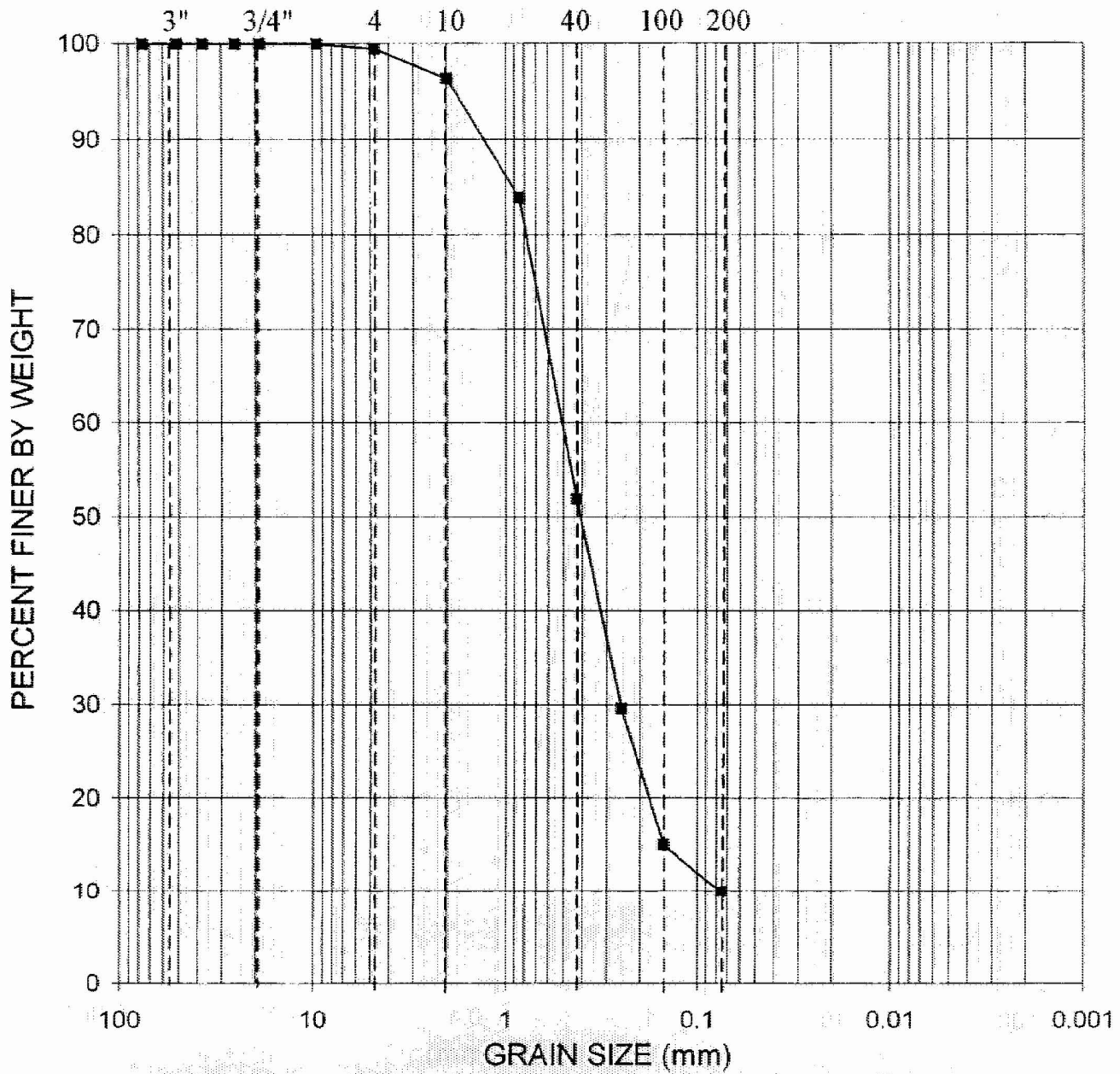
Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	99		
#40	0.425	99		
#60	0.25	99		
#100	0.15	98		
#200	0.075	74		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0345	45		
---	0.0221	32		
---	0.0128	27		
---	0.0091	22		
---	0.0065	18		
---	0.0046	16		
---	0.0033	13		
---	0.0016	9		

Coefficients	
D ₈₅ = 0.1017 mm	D ₃₀ = 0.0178 mm
D ₆₀ = 0.0512 mm	D ₁₅ = 0.0042 mm
D ₅₀ = 0.0395 mm	D ₁₀ = 0.0018 mm
C _u = N/A	C _c = N/A

Classification	
ASTM	fat clay with sand (CH)
AASHTO	Clayey Soils (A-7-6 (31))


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:	9/27/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI	
B-752	2.5	Poorly Graded SAND, with silt, orange	SP-SM			