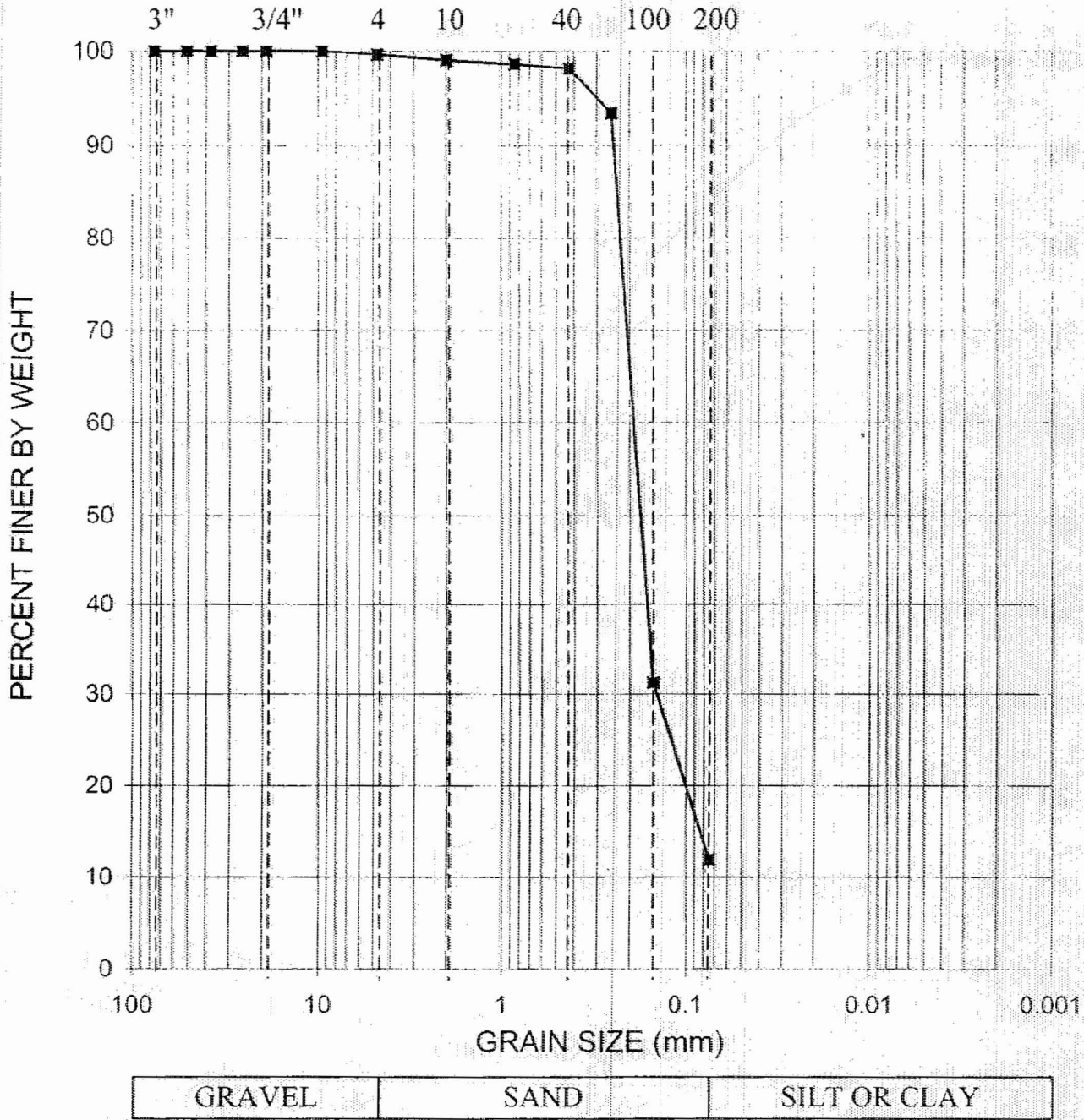



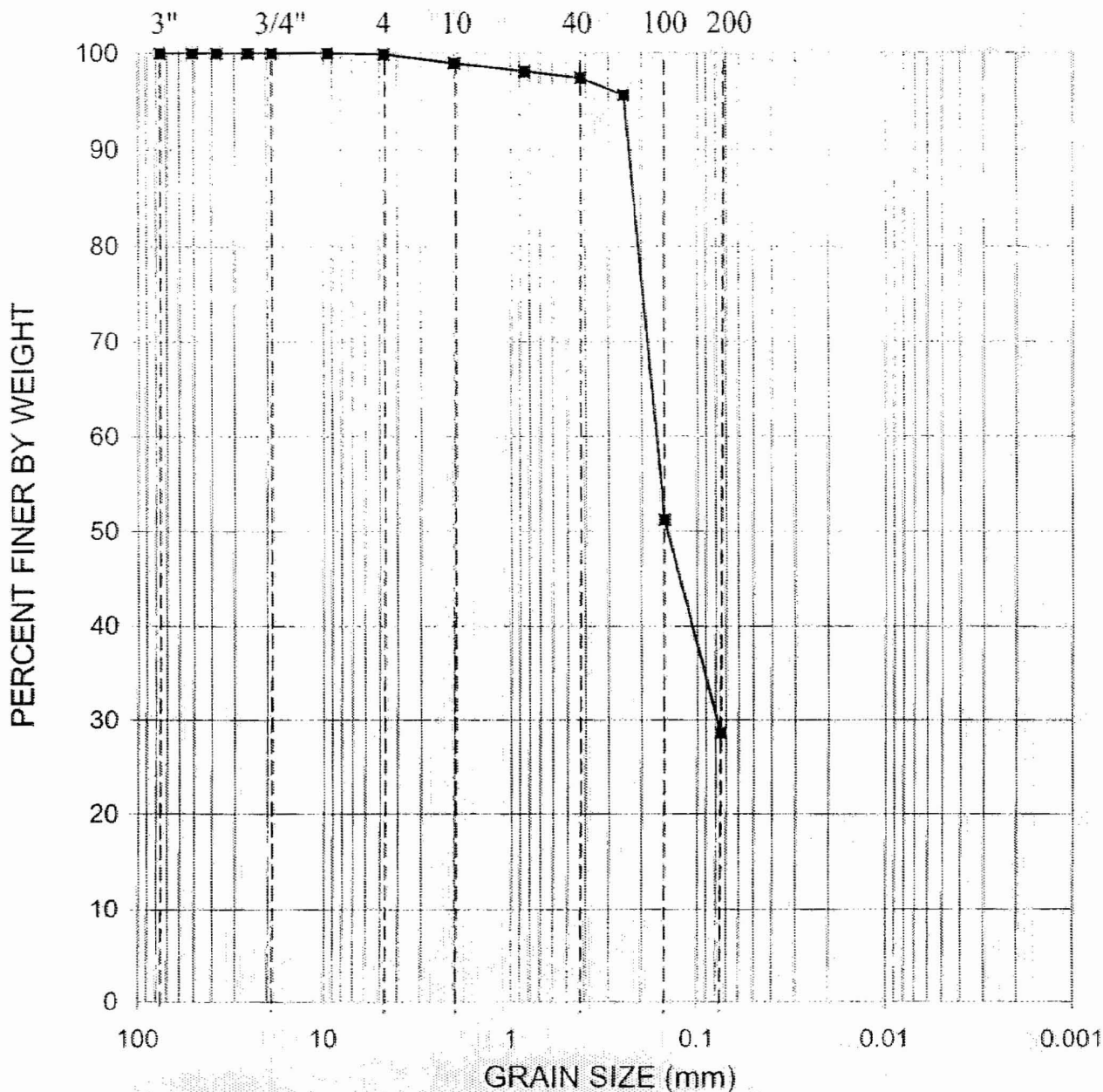
U.S. Standard Sieve Nos.



GRADATION CURVE  
ASTM D422


Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/28/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-315	63.5	Poorly Graded SAND, with silt, trace shells, dark green	SP-SM	NP	NP		

U.S. Standard Sieve Nos.

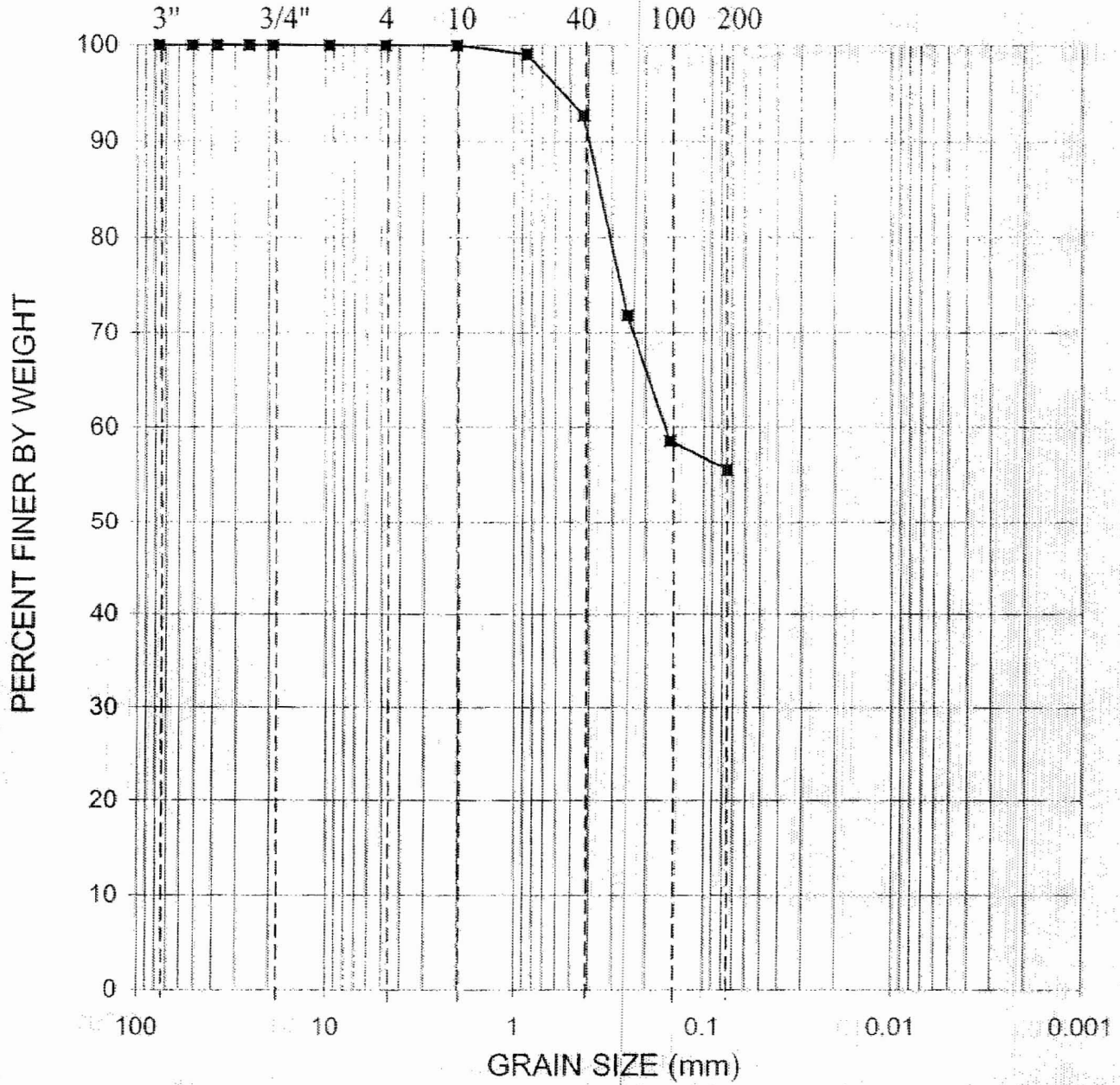


GRAVEL                      SAND                      SILT OR CLAY

**GRADATION CURVE**  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/28/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-315	83.5	Silty SAND, contains shells, green	SM	NP	NP		

U.S. Standard Sieve Nos.

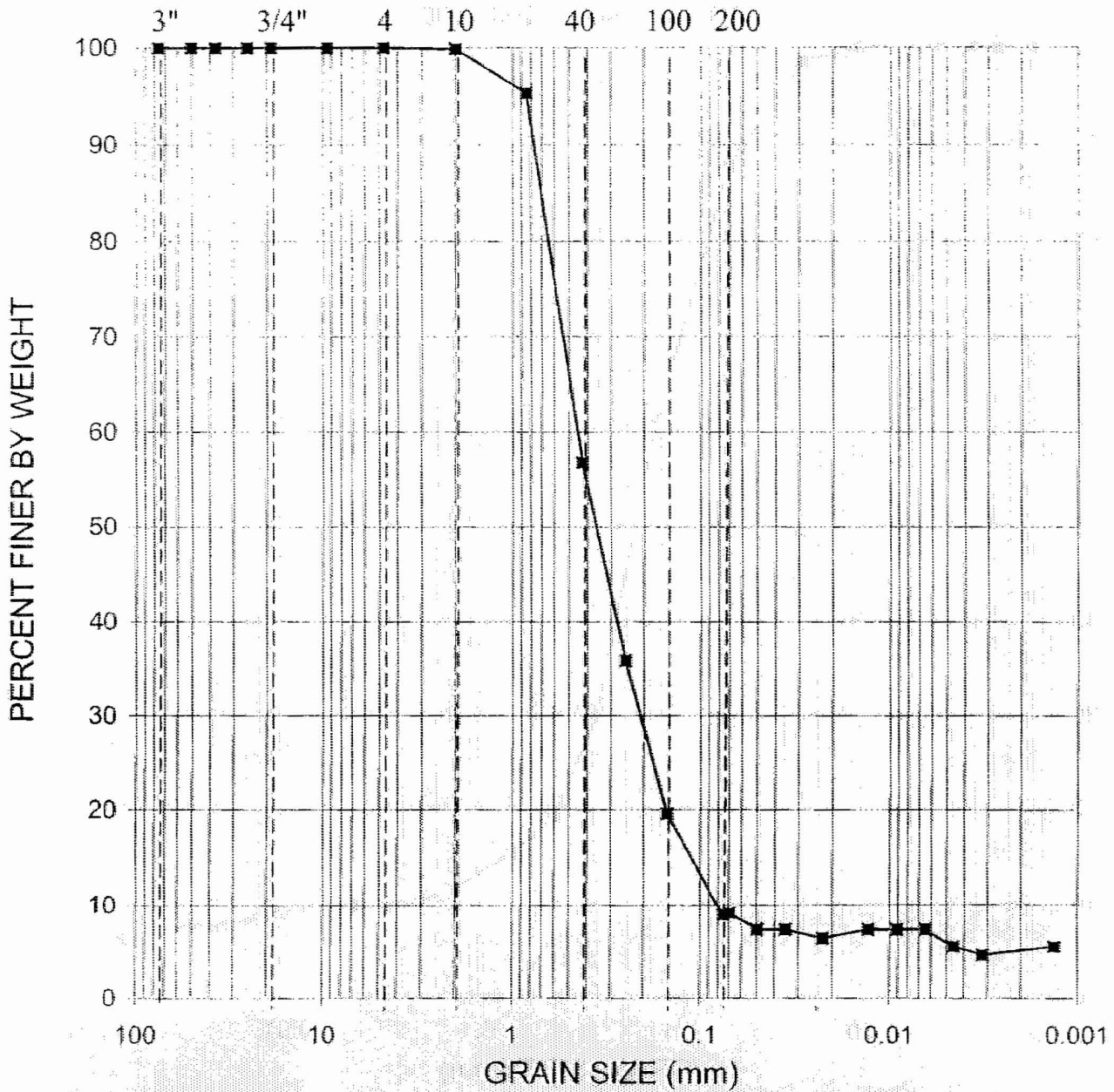


GRAVEL      SAND      SILT OR CLAY

GRADATION CURVE  
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 8/21/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-316	7.5	Sandy LEAN CLAY, brown	CL				

U.S. Standard Sieve Nos.



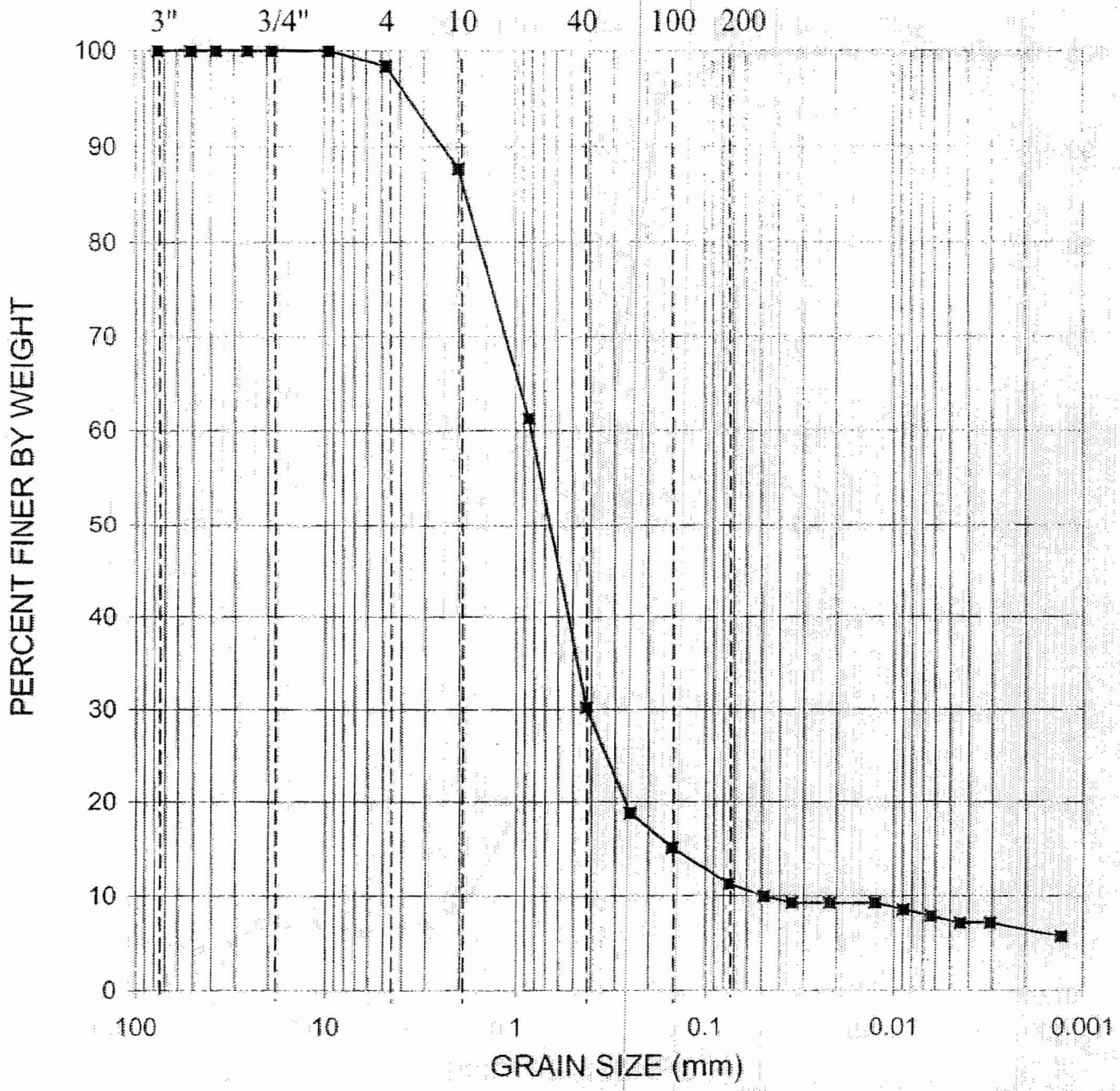
GRAVEL SAND SILT OR CLAY

GRADATION CURVE

ASTM D422


Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	8/25/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-316	23.5	Poorly Graded SAND, with silt, tan	SP-SM	NP	NP	

U.S. Standard Sieve Nos.

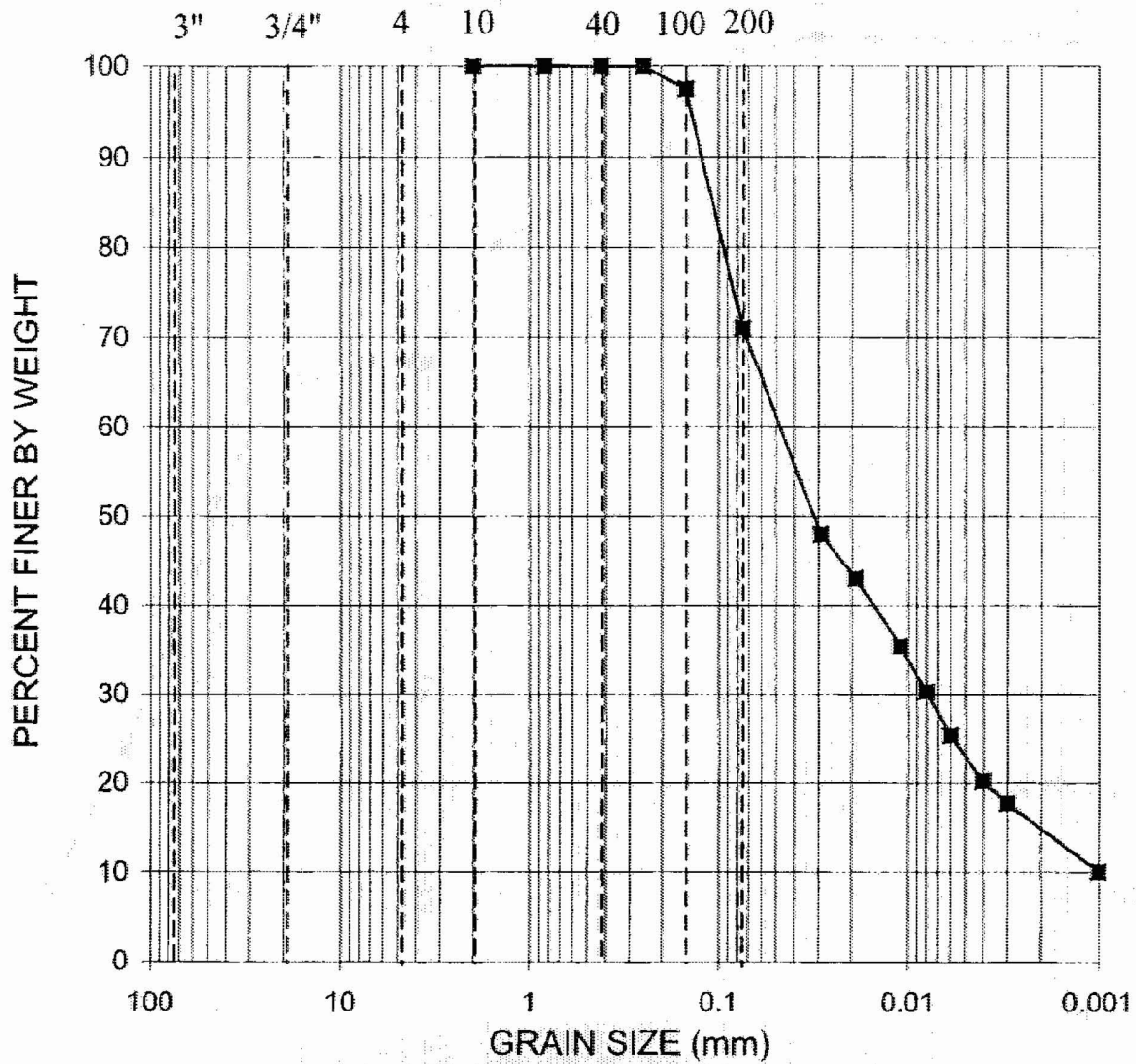


GRAVEL                      SAND                      SILT OR CLAY


**GRADATION CURVE**  
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 8/18/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-316	33.5	Poorly Graded SAND, with silt, trace gravel, light brown	SP-SM	43	26		

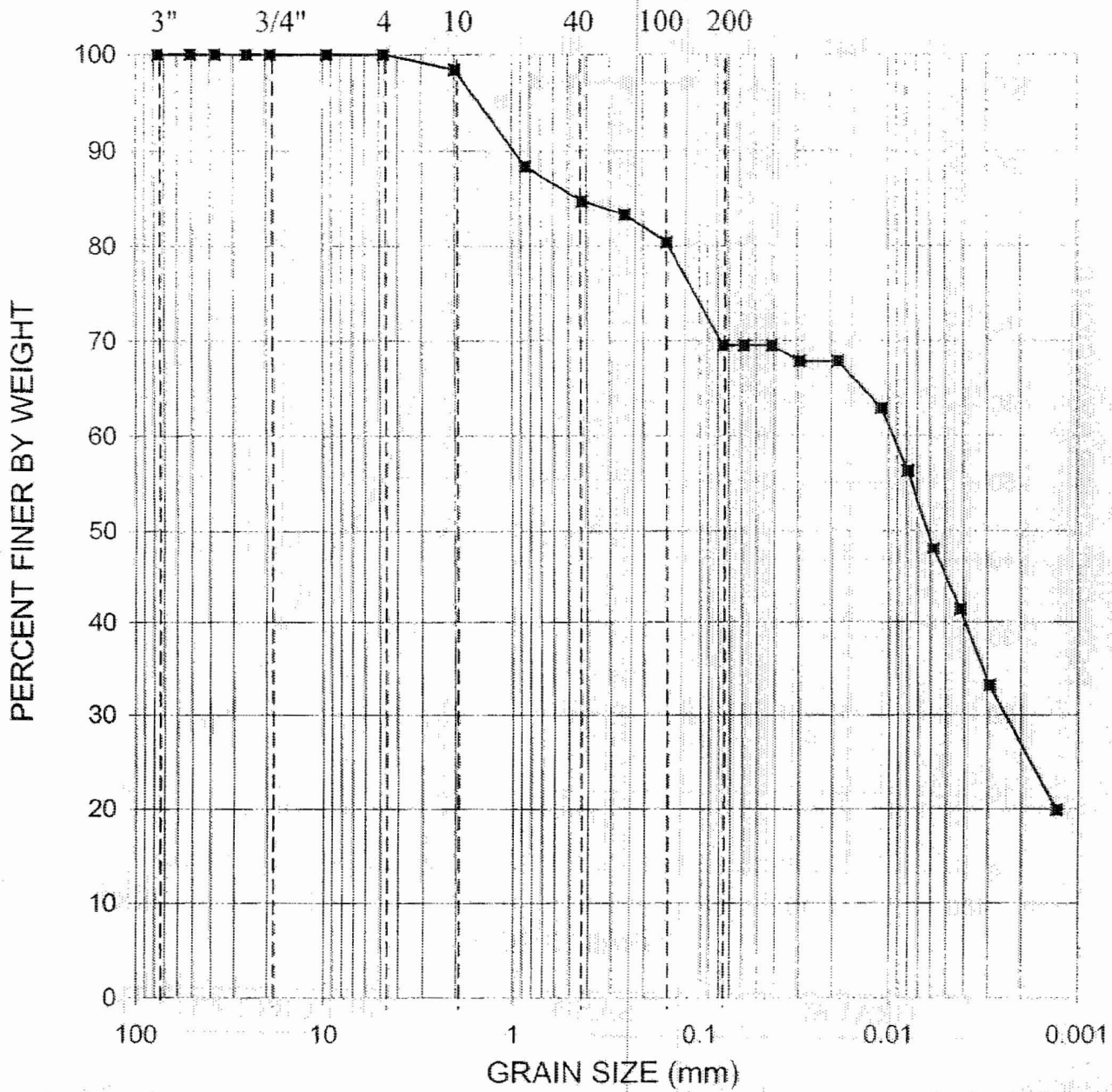
U.S. Standard Sieve Nos.



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-316	43.5-45.5	LEAN CLAY with sand - gray	CL	44	28	
▲							
●							Project: Calvert Cliffs Nuclear Power Plant Contract No. 06120048 Date: 10/26/06 Method: ASTM D422

U.S. Standard Sieve Nos.



GRAVEL                      SAND                      SILT OR CLAY

GRADATION CURVE  
ASTM D422

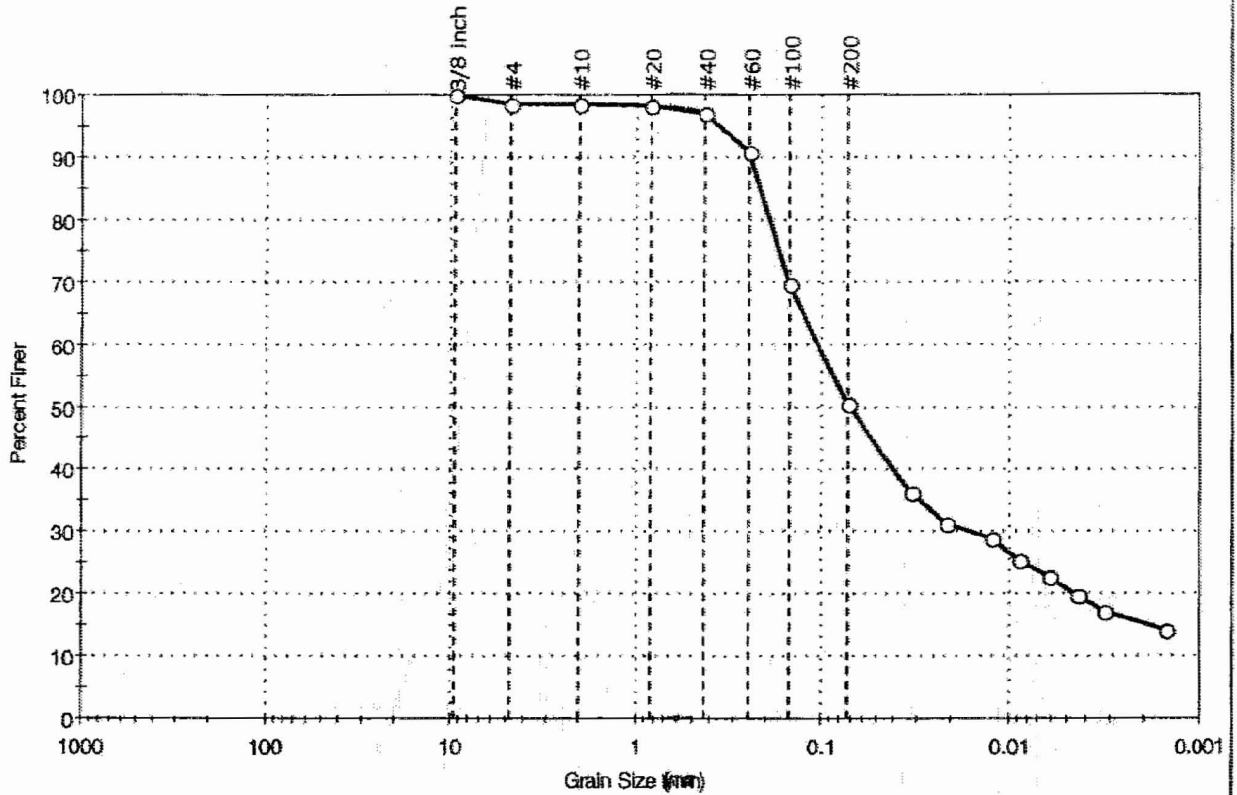
Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 8/28/2006	
Boring No.	Depth (ft)	Sample Description		Class.	LL	PI	
B-316	48.5	Sandy ELASTIC SILT, gray		MH			

# GeoTesting express

a subsidiary of Geocomp Corporation

Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No: GTX-6880
Boring ID: B-316	Sample Type: tube	Tested By: sam	Checked By: mcm
Sample ID: S-14	Test Date: 10/19/06	Test ID: 101127	
Depth: 53.5-55.5 ft			
Test Comment: ---			
Sample Description: Moist, dark olive gray sandy clay			
Sample Comment: ---			

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	1.3	48.3	50.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 inch	9.51	100		
#4	4.75	99		
#10	2.00	99		
#20	0.84	98		
#40	0.42	97		
#60	0.25	93		
#100	0.15	70		
#200	0.074	50		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0328	36		
---	0.0211	31		
---	0.0122	29		
---	0.0087	25		
---	0.0062	23		
---	0.0044	20		
---	0.0032	17		
---	0.0015	14		

### Coefficients

D <sub>85</sub> = 0.2165 mm	D <sub>30</sub> = 0.0156 mm
D <sub>60</sub> = 0.1052 mm	D <sub>15</sub> = 0.0019 mm
D <sub>50</sub> = 0.0724 mm	D <sub>10</sub> = 0.0005 mm
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

### Classification

ASTM Sandy lean clay (CL)

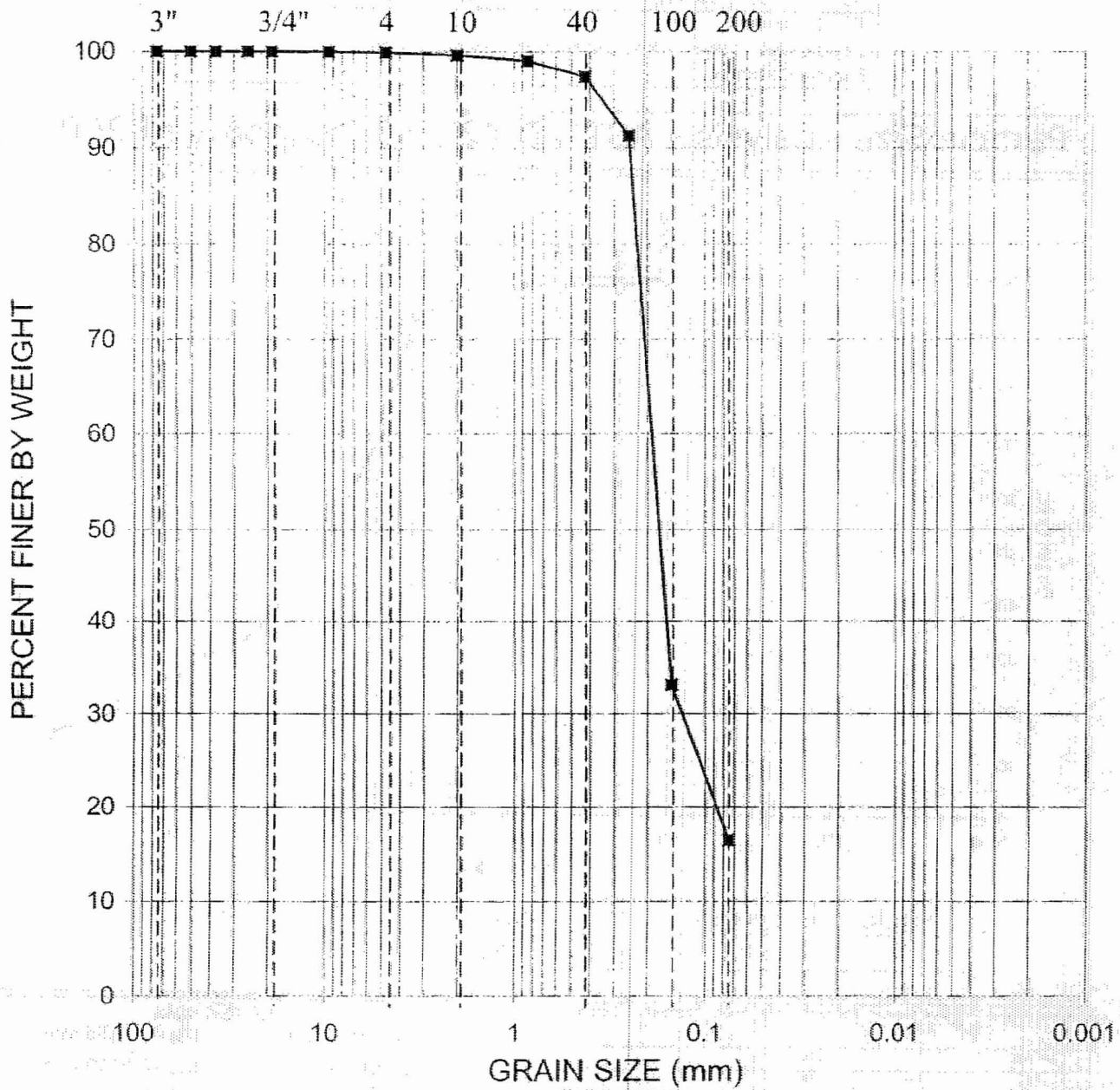
AASHTO Clayey Soils (A-6 (8))

### Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR  
Sand/Gravel Hardness : HARD



U.S. Standard Sieve Nos.

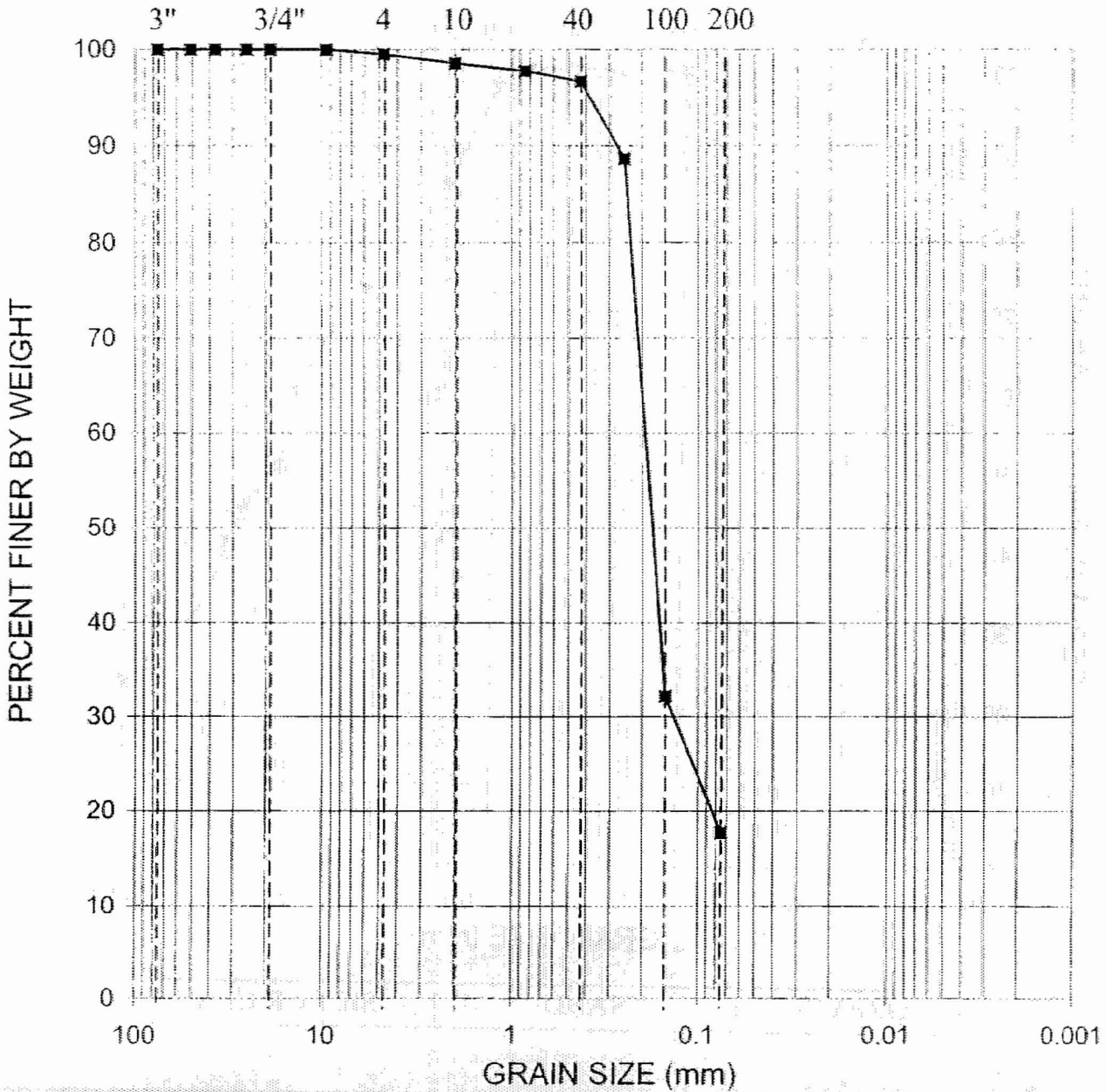


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	8/21/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-316	68.5	Silty SAND, contains shells, dark green	SM			

U.S. Standard Sieve Nos.



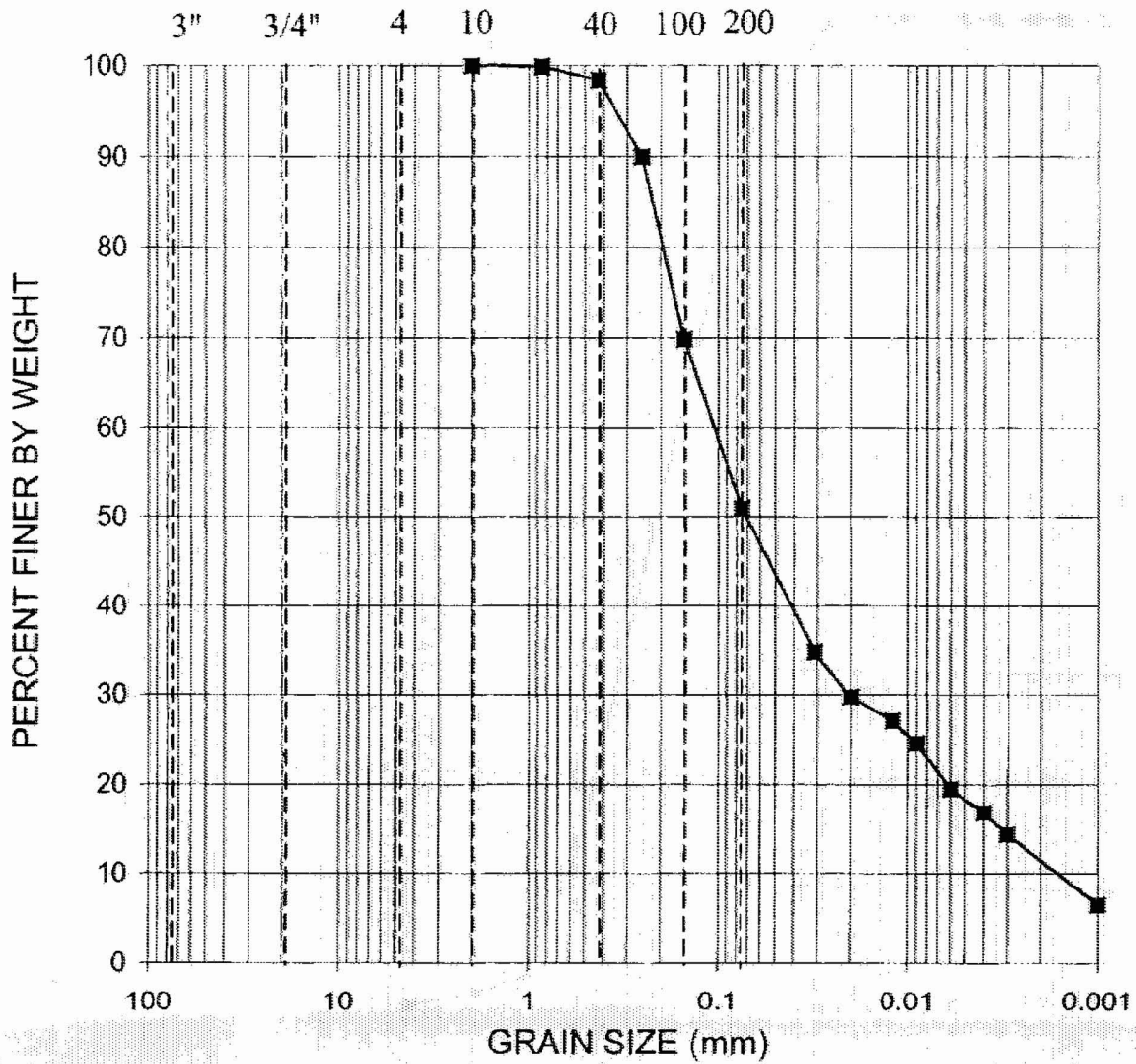
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE  
ASTM D422


Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No. 06120048.00		Date: 8/21/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-316	93.5	Clayey SAND, contains shells, dark gray	SC				



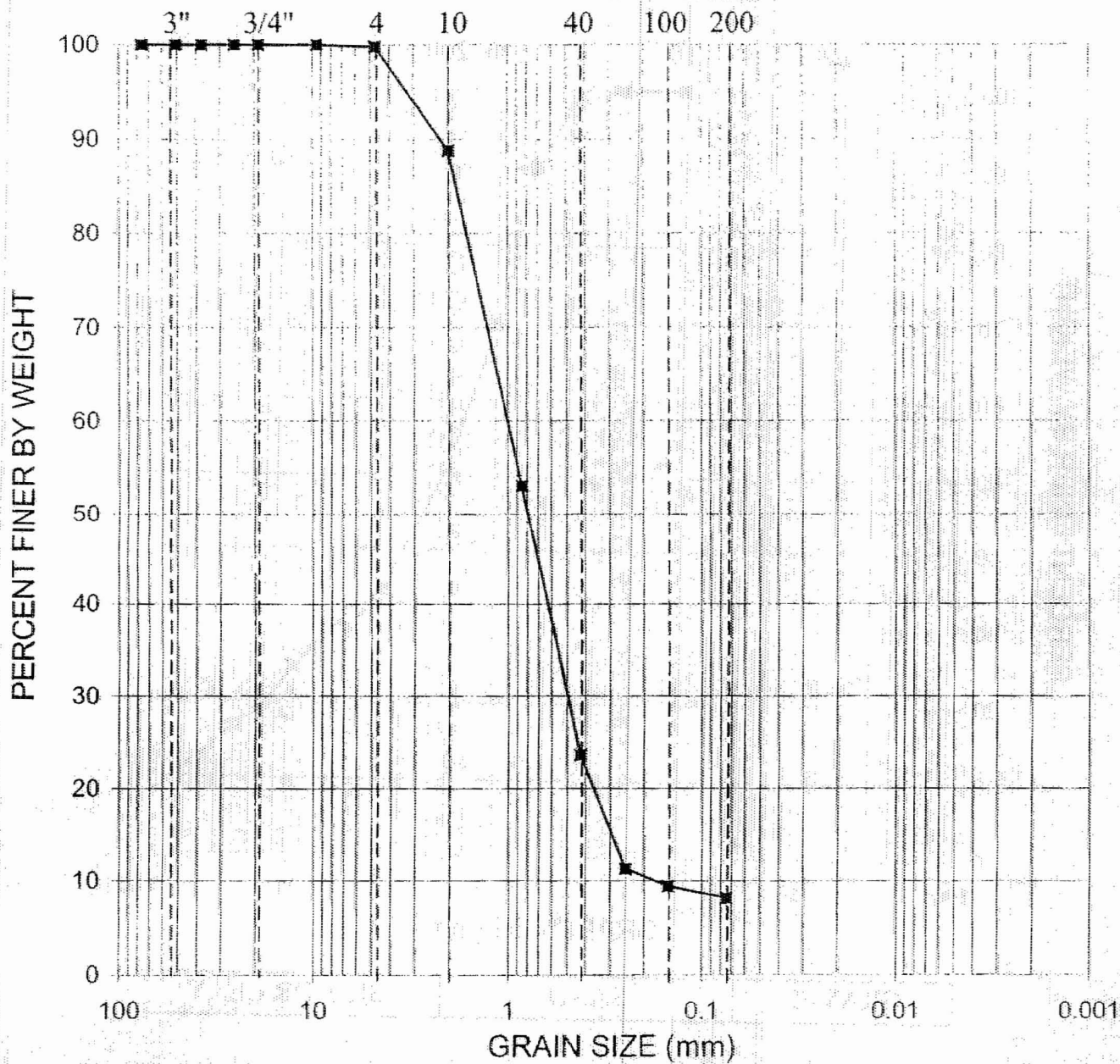
U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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Key	Sample	Depth(ft.)	Sample Description	Class.	LL	PI	 <b>Schnabel Engineering</b> <b>GRADATION CURVES</b>
■	B-317	48.5-50.3	Sandy LEAN CLAY - gray	CL	35	18	
▲							Project: Calvert Cliffs Nuclear Power Plant
●							Contract No. 06120048
							Date: 10/06/06 Method: ASTM D422

U.S. Standard Sieve Nos.

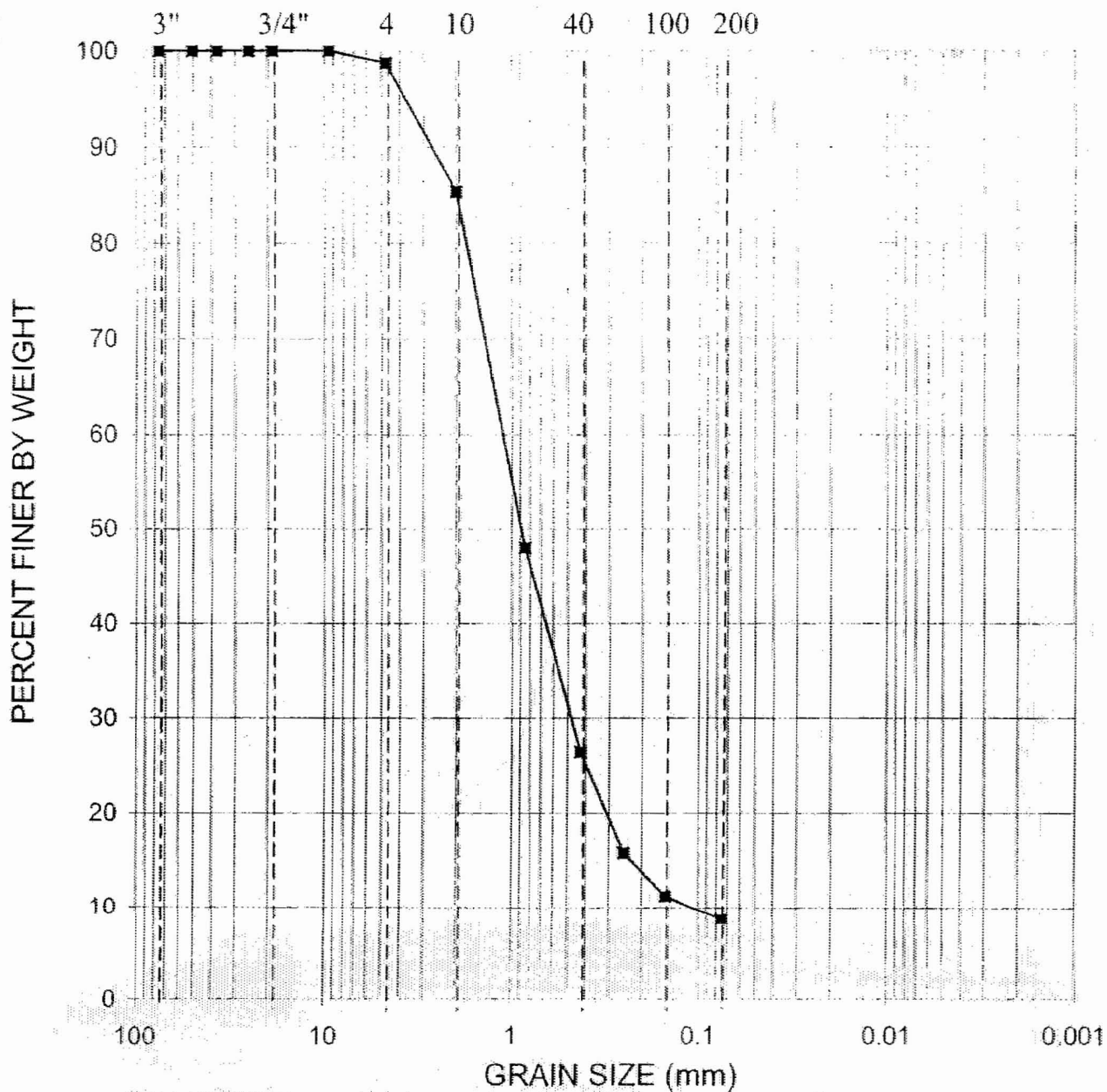


GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.: 06120048.00		Date: 8/21/2006	
Boring No.	Depth (ft)	Sample Description			Class.	LL	PI	
B-319	2.5	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: 8/21/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-319	13.5	Poorly Graded SAND with silt, trace gravel, brown	SP-SM		

