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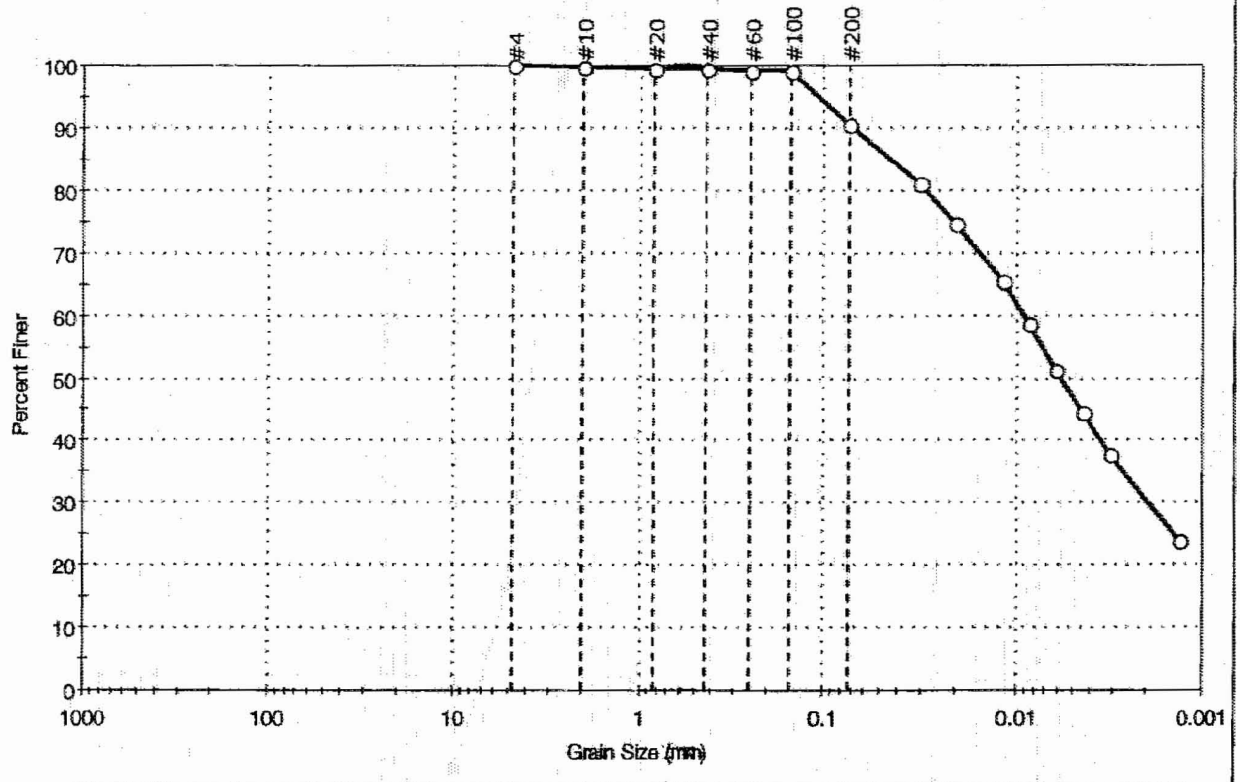
Client:	Schnabel Engineering, Inc.		
Project:	Subsurface Investigation Calvert Cliffs Nuclear PP		
Location:	Calvert County, MD	Project No:	GTX-6880
Boring ID:	B-423	Sample Type: tube	Tested By: n/a
Sample ID:	S-41	Test Date: 10/17/06	Checked By: mcm
Depth :	188.5-189.0 ft	Test Id: 100192	
Test Comment:	---		
Sample Description:	Moist olive gray sandy clay		
Sample Comment:	---		

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



%Cobble	%Gravel	%Sand	%Silt & Clay Size
---	0.0	9.4	90.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	99		
#40	0.42	99		
#60	0.25	99		
#100	0.15	99		
#200	0.074	91		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0314	81		
---	0.0201	75		
---	0.0118	65		
---	0.0065	59		
---	0.0061	51		
---	0.0043	45		
---	0.0031	38		
---	0.0013	24		

Coefficients

D_{85} =0.0443 mm	D_{30} =0.0019 mm
D_{60} =0.0090 mm	D_{15} =N/A
D_{50} =0.0057 mm	D_{10} =N/A
C_u =N/A	C_c =N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (59))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

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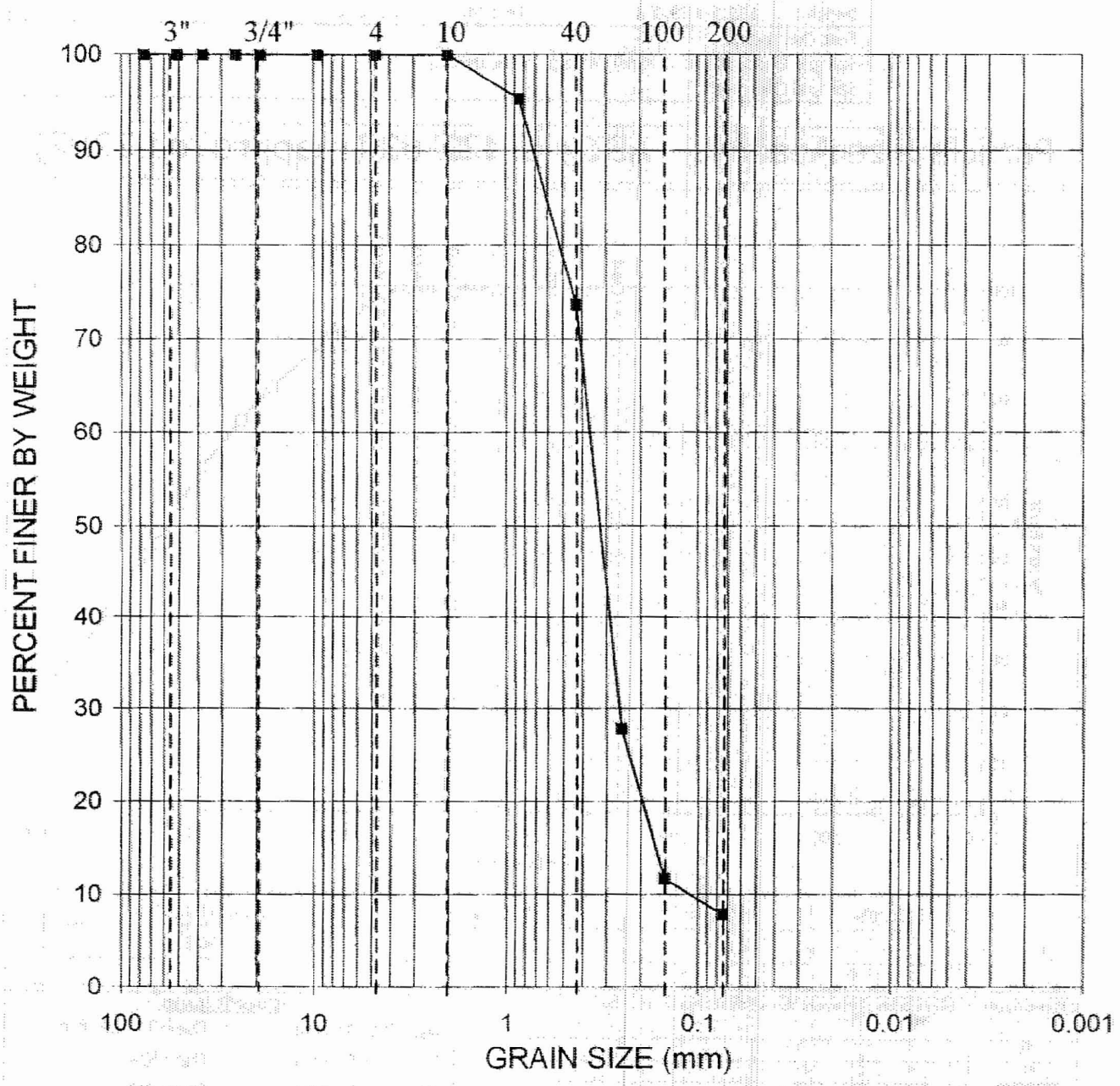


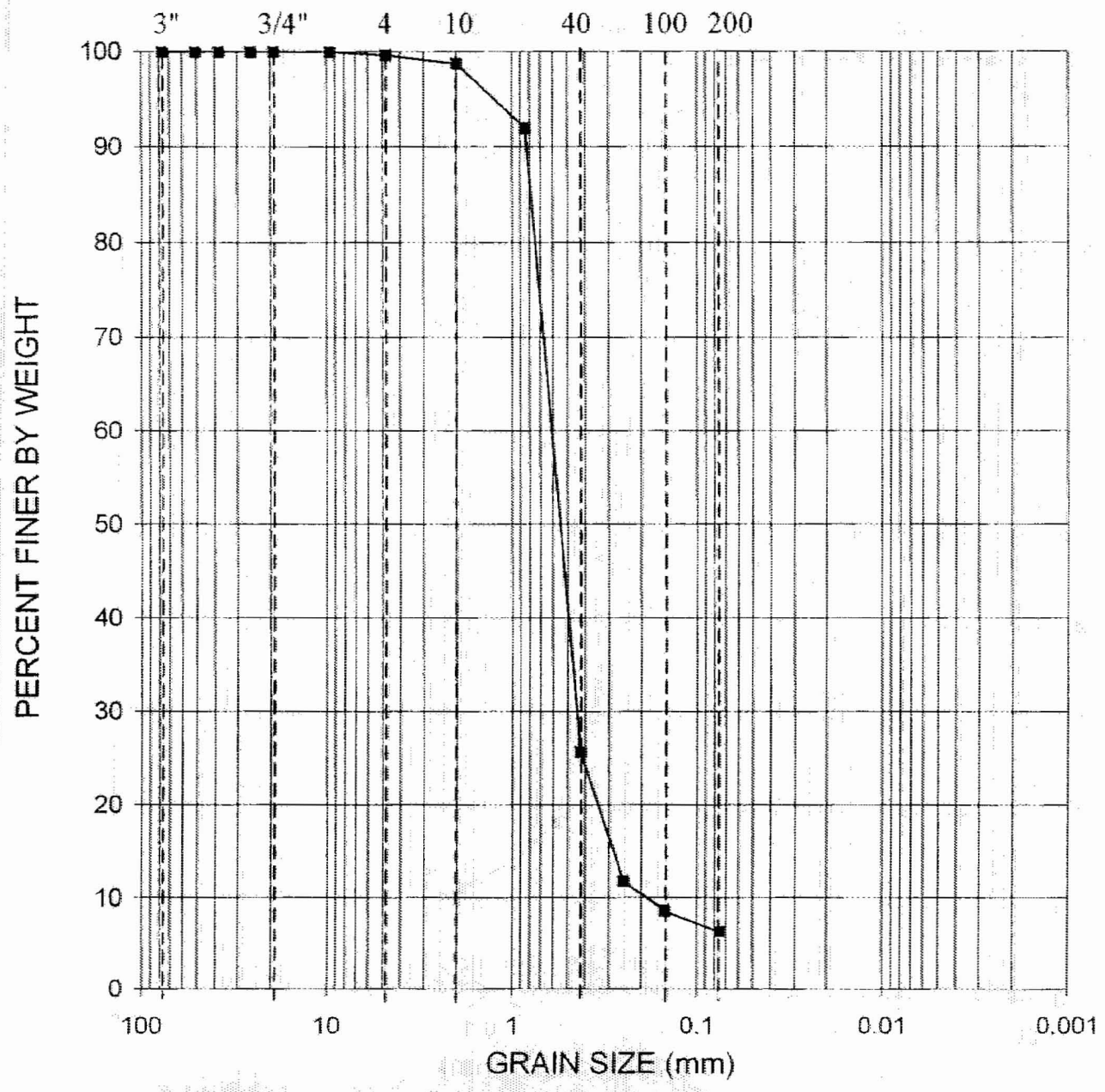
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs NuclearPower Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	9/19/2006

Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-425	3.5	Poorly Graded SAND with silt, brown	SP-SM		

Schnabel Engineering

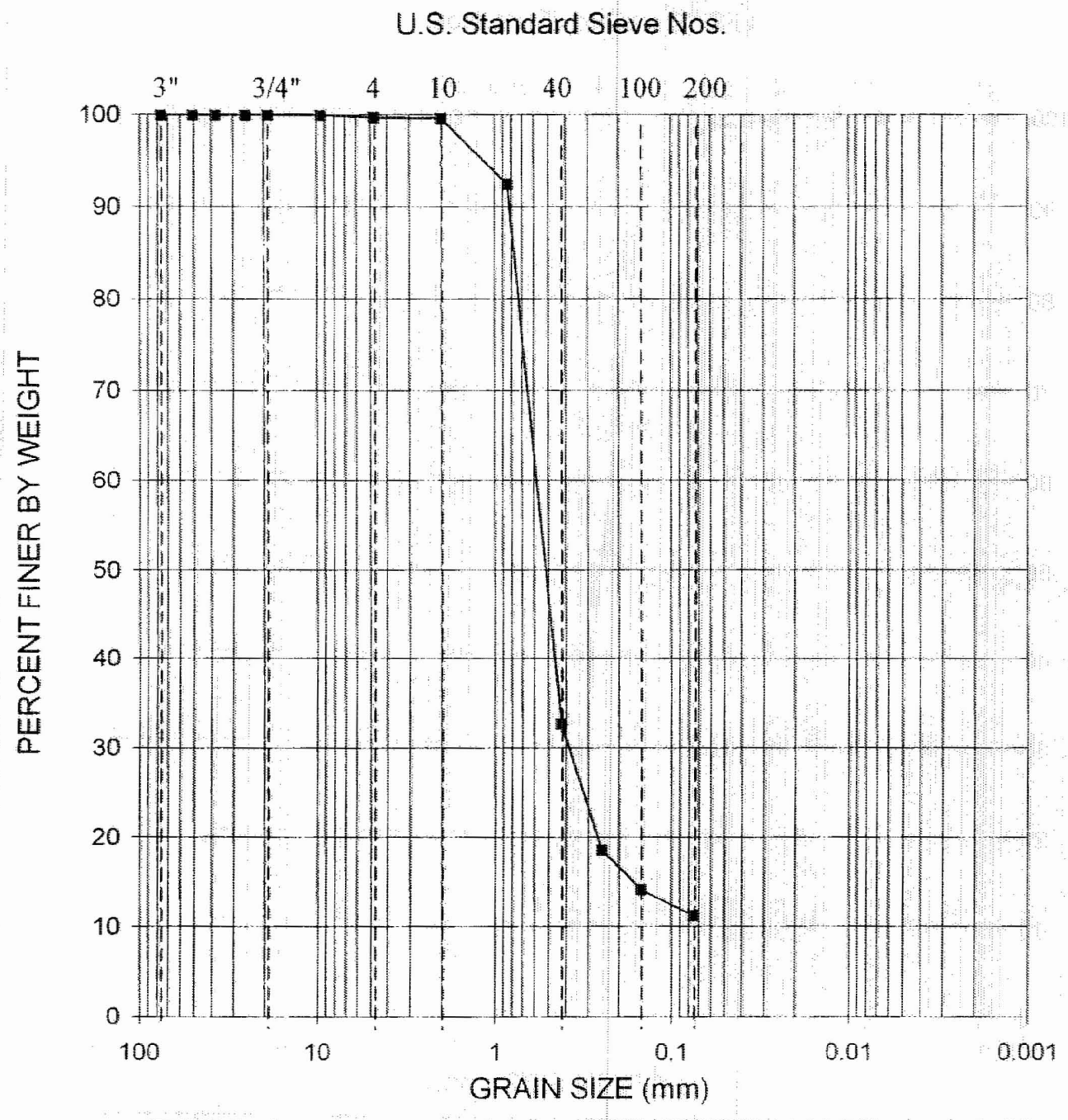


GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs NuclearPower Plant (CCNPP), Calvert County, Maryland		Contract No.	06120048.00		Date	9/18/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-425	13.5	Poorly Graded SAND, with silt, brown	SP-SM				

Schnabel Engineering



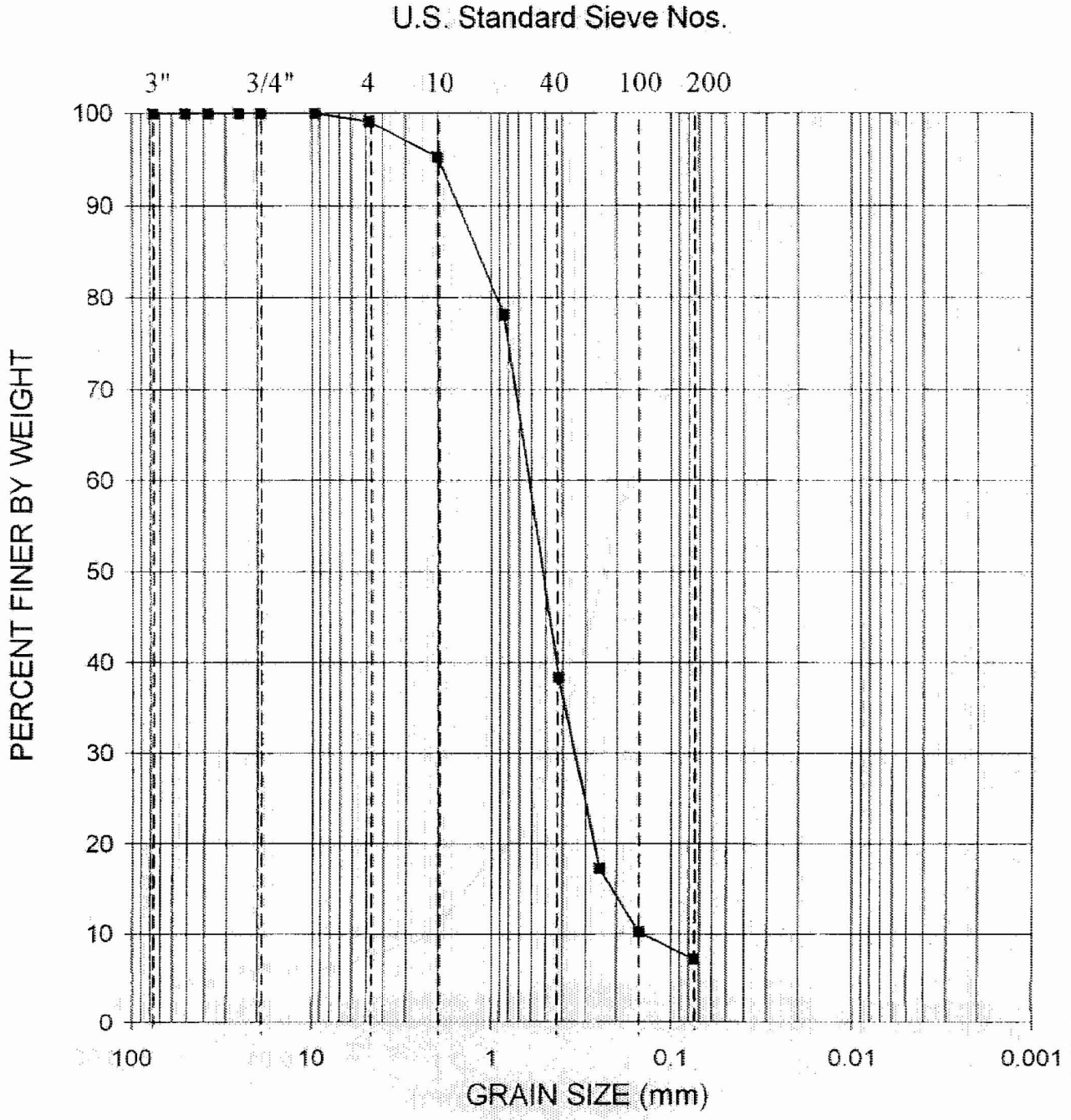
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs NuclearPower Plant (CCNPP), Calvert County, Maryland		Contract No.	06120048.00	Date:	9/18/2006

Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-425	30.0	Poorly Graded SAND, with silt, brown	SP-SM		

Schnabel Engineering



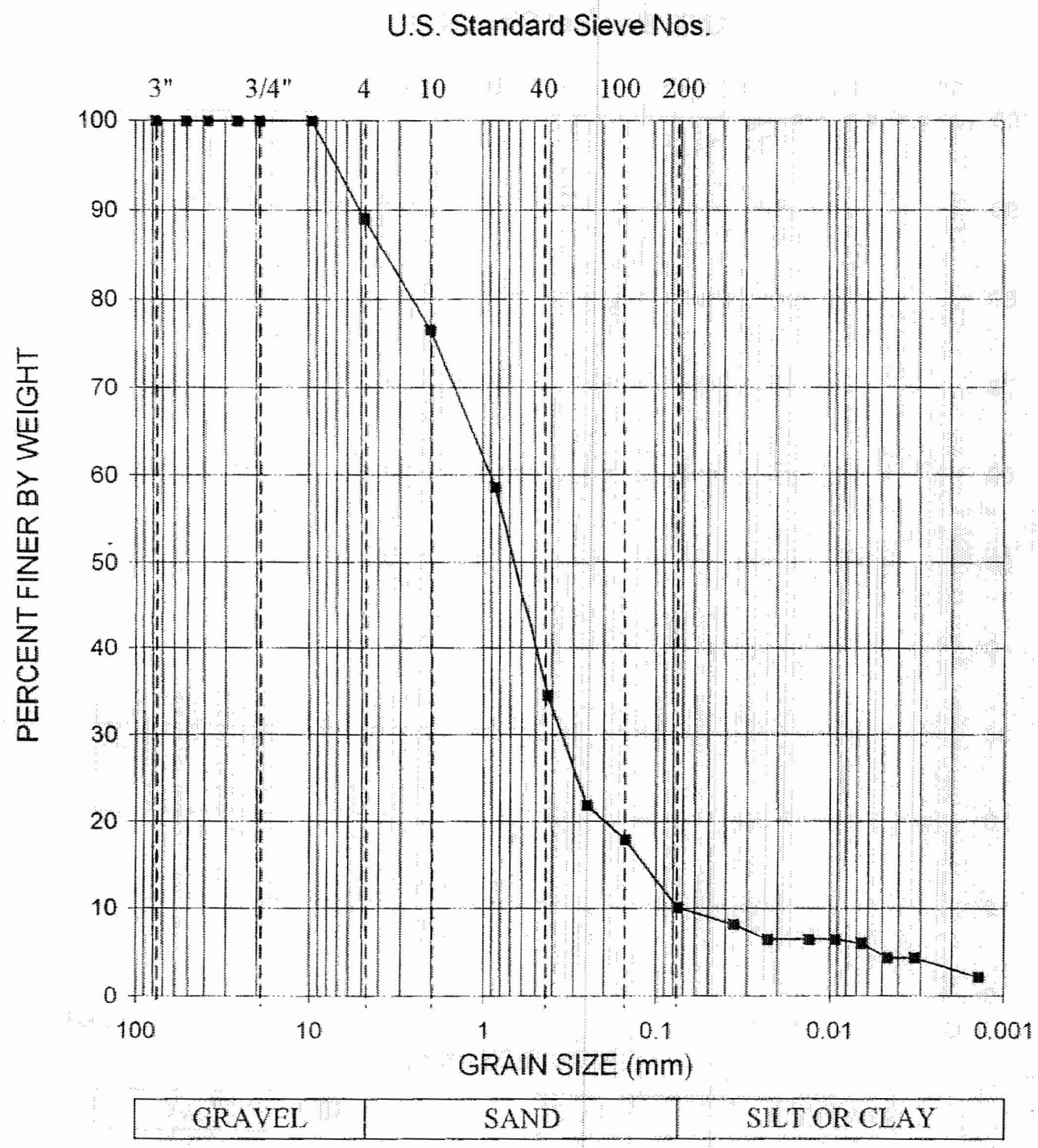
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs NuclearPower Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00		Date:	9/15/2006

Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-425	40.0	Poorly Graded SAND, with silt, brown	SP-SM		

Schnabel Engineering



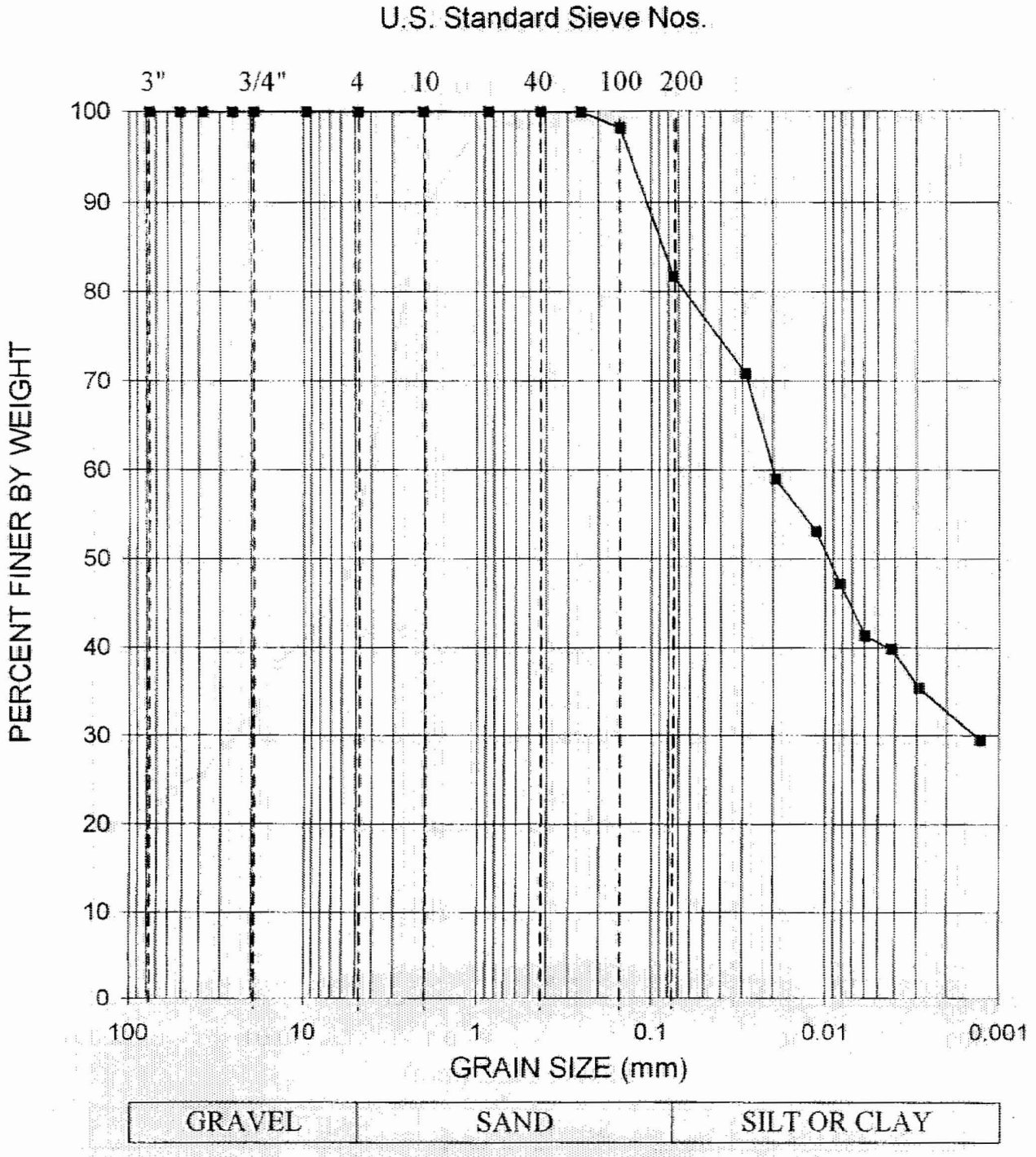
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs NuclearPower Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 9/22/2006

Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-425	50.0	Well Graded SAND, with silt, trace gravel, brown	SW-SM	28	11

Schnabel Engineering



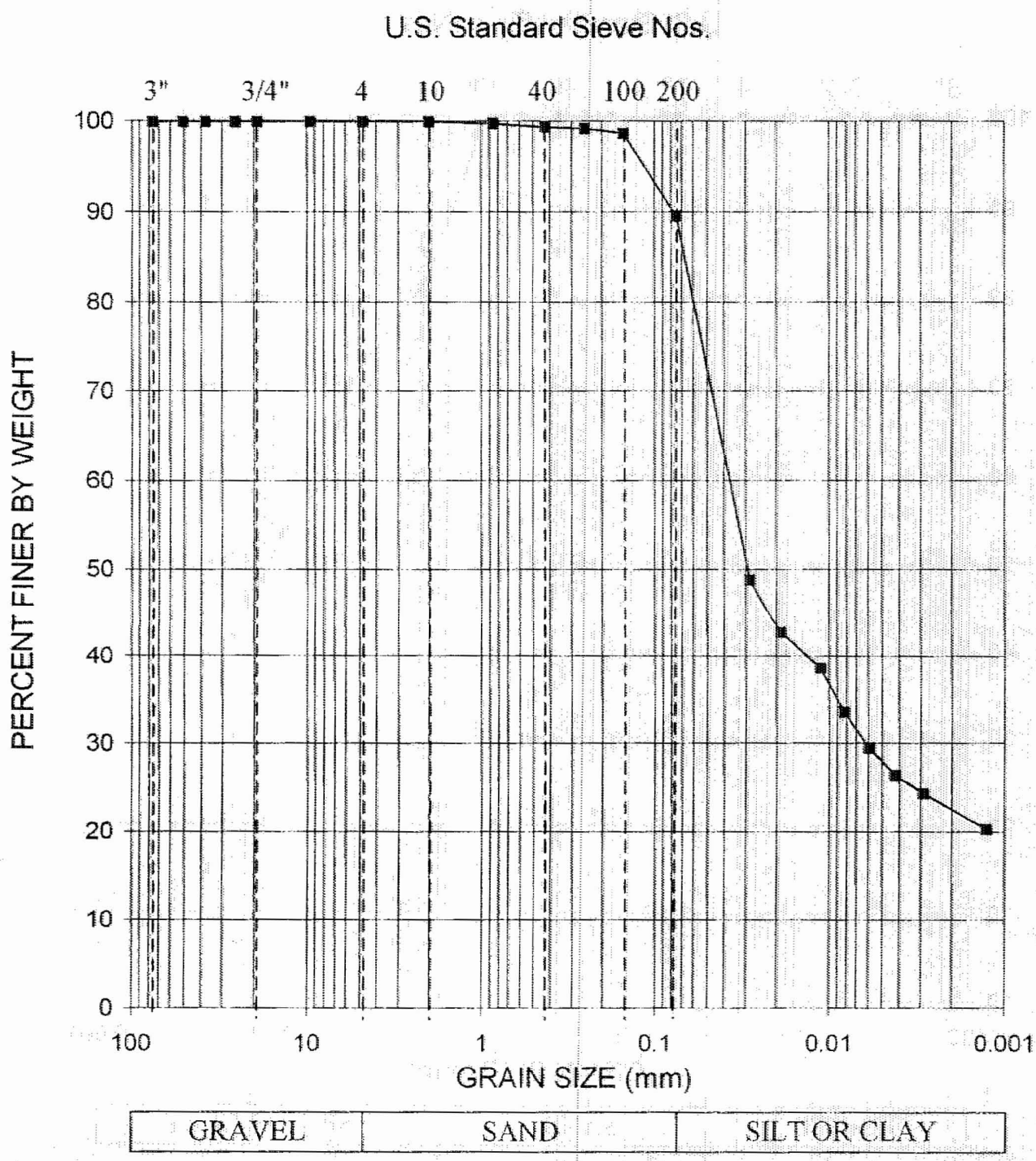
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs NuclearPower Plant (CCNPP), Calvert County, Maryland		Contract No.	06120048.00	Date:	9/20/2006

Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-425	57.0	FAT CLAY, with sand , gray	CH	55	30

Schnabel Engineering



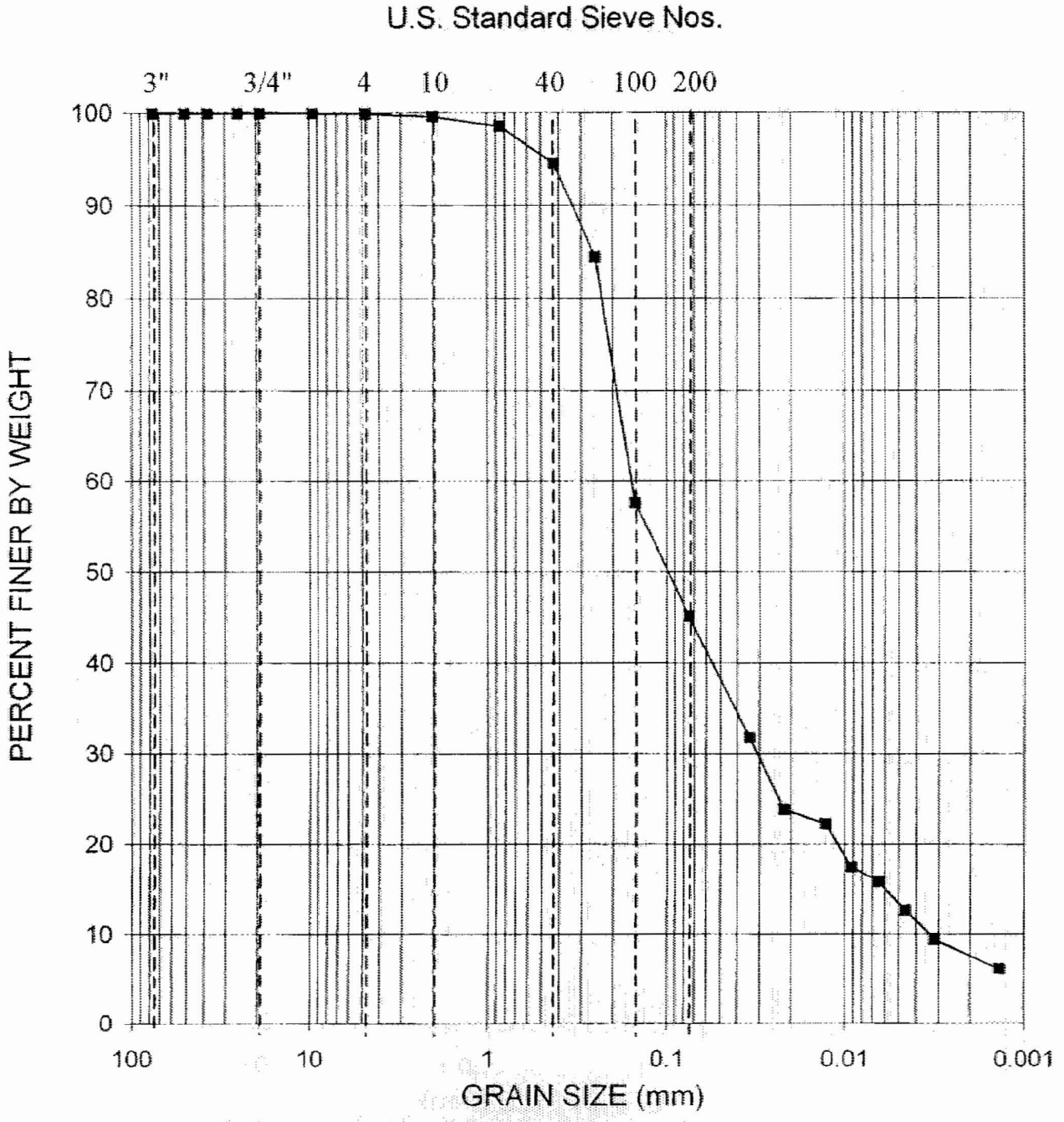
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs NuclearPower Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 9/20/2006

Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-425	65.0	FAT CLAY, trace sand, dark gray	CH	69	41

Schnabel Engineering



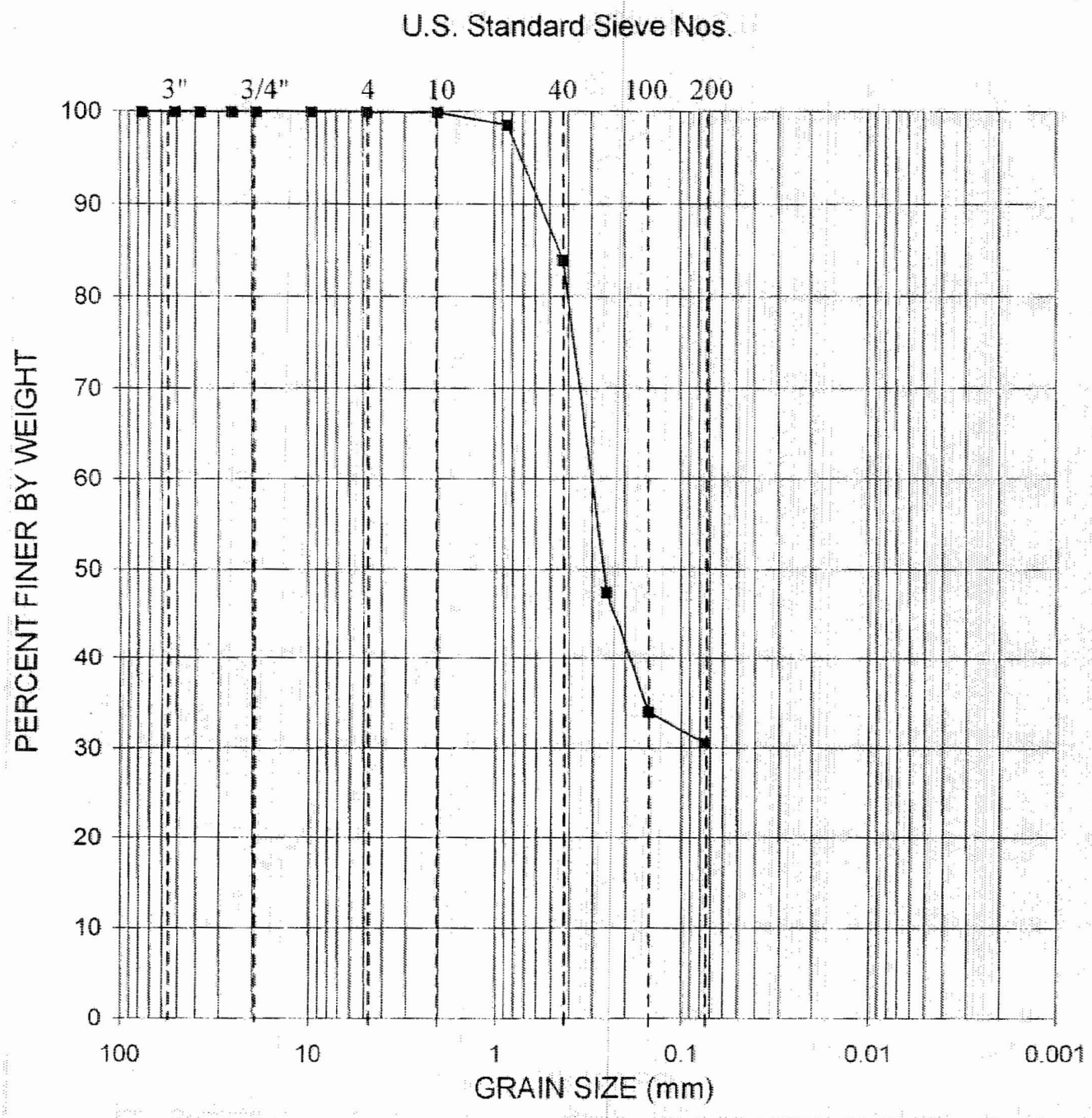
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs NuclearPower Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 9/19/2006

Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-425	75.0	Clayey SAND, dark gray	SC	41	21

Schnabel Engineering



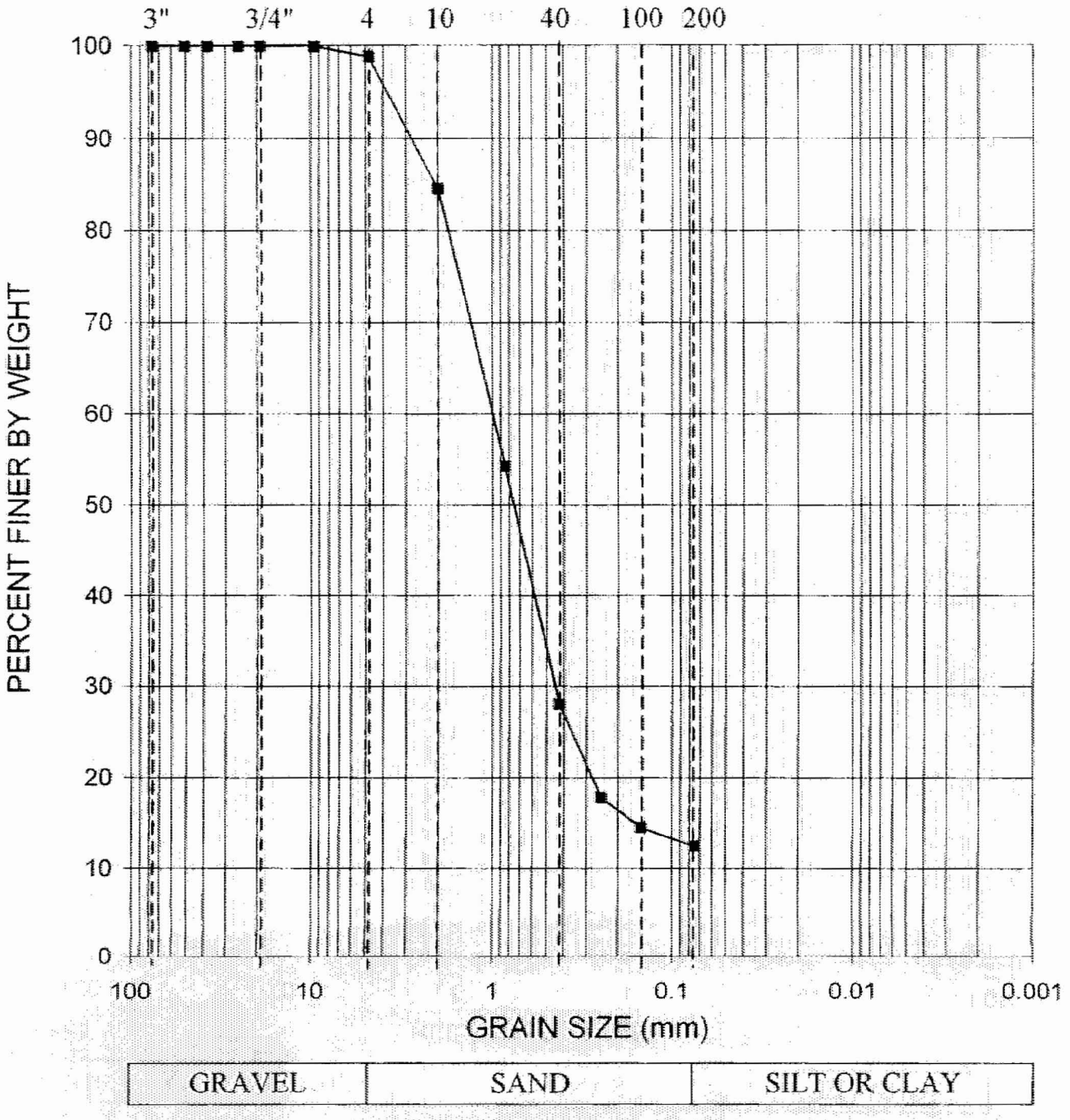
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs NuclearPower Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 9/15/2006

Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-427	2.5	Silty SAND, dark brown	SM		

Schnabel Engineering



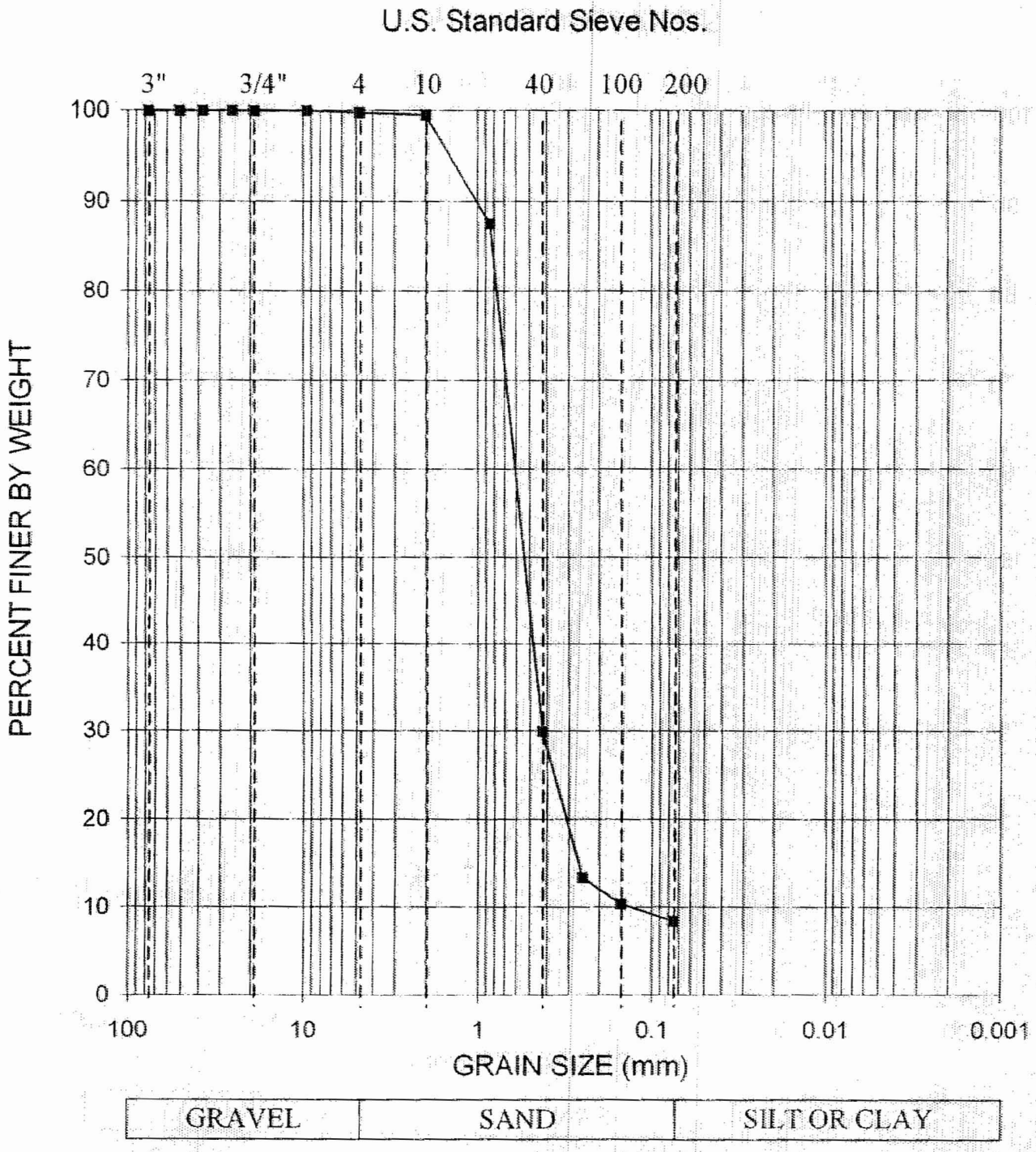
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs NuclearPower Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 9/18/2006

Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-427	18.5	Silty SAND, trace gravel, light brown	SM		

Schnabel Engineering

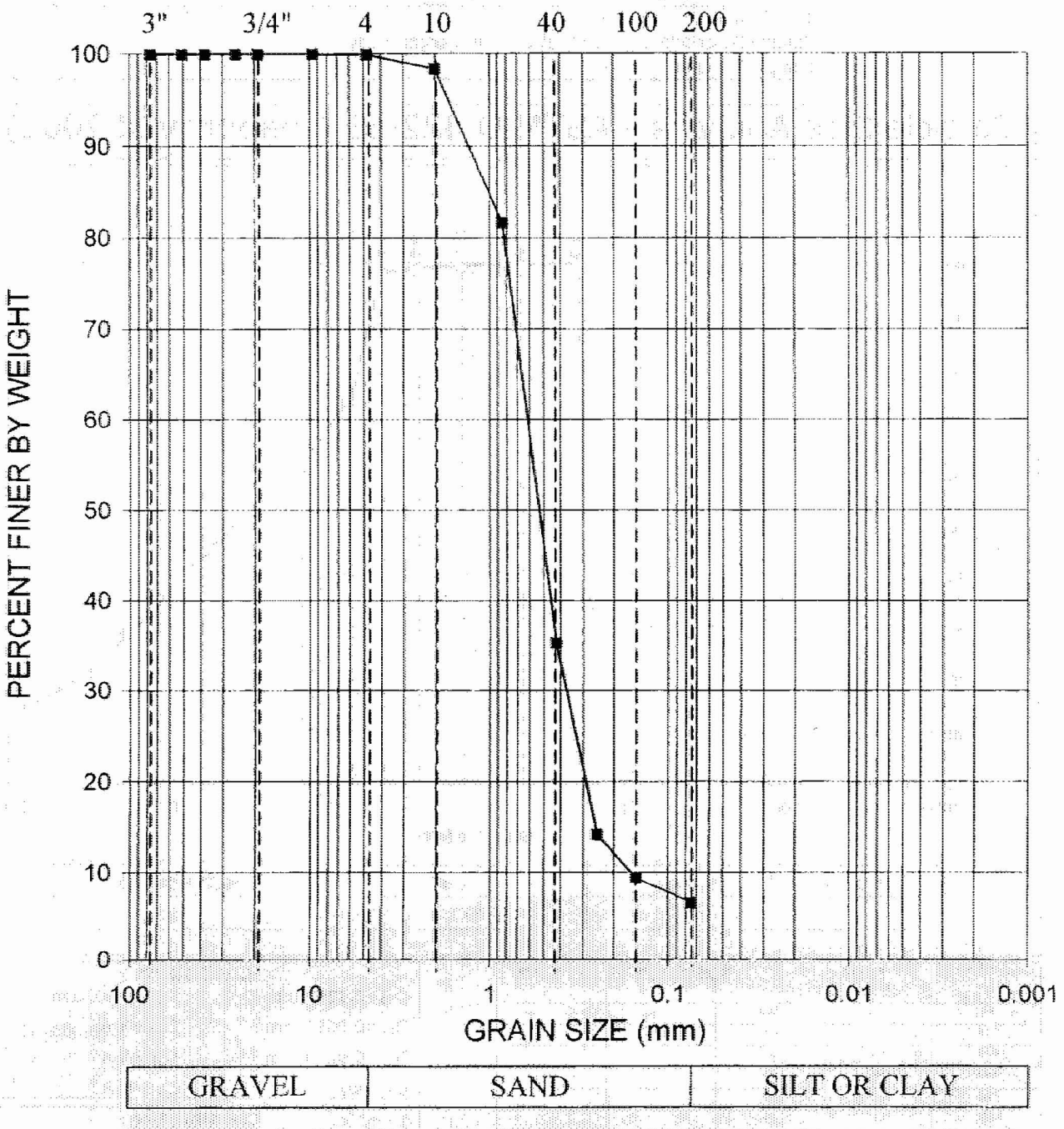


GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs NuclearPower Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	9/15/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-427	28.5	Poorly Graded SAND, with silt, light brown	SP-SM			

Schnabel Engineering



GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs NuclearPower Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 9/18/2006

Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-427	48.5	Poorly Graded SAND, with silt, brown	SP-SM		

Schnabel Engineering

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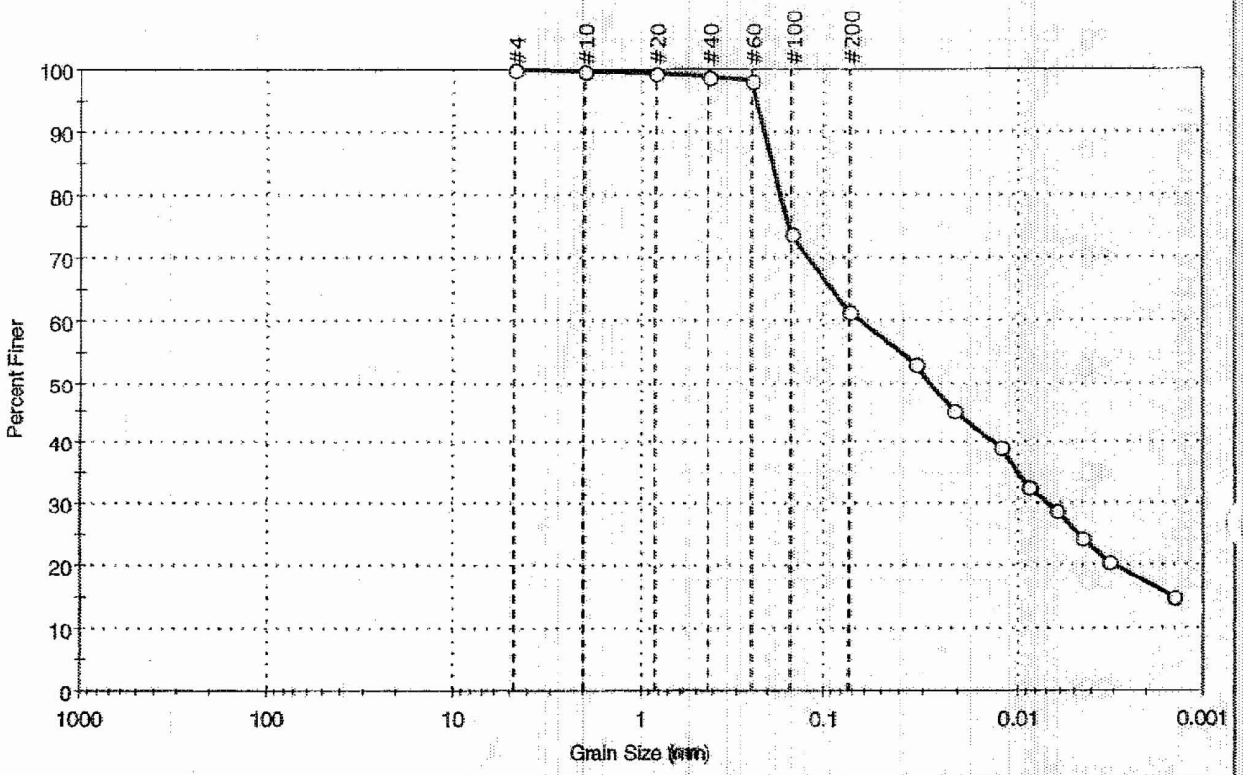
Client:	Schnabel Engineering, Inc.				
Project:	Subsurface Investigation Calvert Cliffs Nuclear PP				
Location:	Calvert County, MD			Project No:	GTX-6880
Boring ID:	B-427	Sample Type:	tube	Tested By:	sam
Sample ID:	S-16	Test Date:	10/11/06	Checked By:	mcm
Depth :	63.5-65.5 ft	Test Id:	98601		
Test Comment:	---				
Sample Description:	Moist, black, sandy organic clay				
Sample Comment:	---				

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	38.7	61.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	99		
#40	0.42	99		
#60	0.25	98		
#100	0.15	74		
#200	0.074	61		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0335	53		
---	0.0212	45		
---	0.0123	39		
---	0.0088	33		
---	0.0063	29		
---	0.0045	24		
---	0.0032	21		
---	0.0014	15		

Coefficients

D_{85} = 0.1896 mm	D_{30} = 0.0070 mm
D_{60} = 0.0654 mm	D_{15} = N/A
D_{50} = 0.0280 mm	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM Sandy organic clay (OH)

AASHTO Clayey Soils (A-7-6 (25))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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