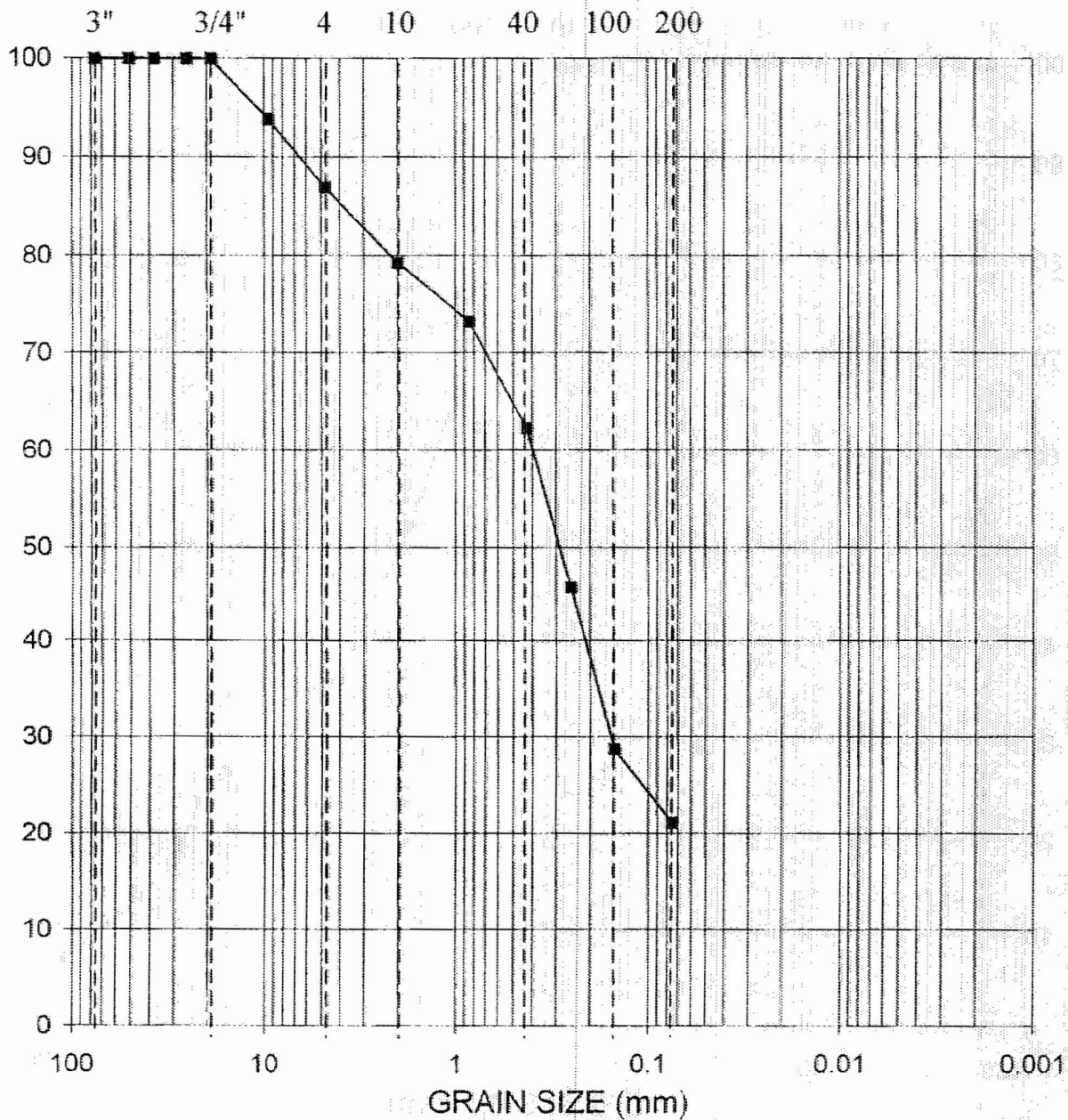


U.S. Standard Sieve Nos.

PERCENT FINER BY WEIGHT



GRAVEL	SAND	SILT OR CLAY
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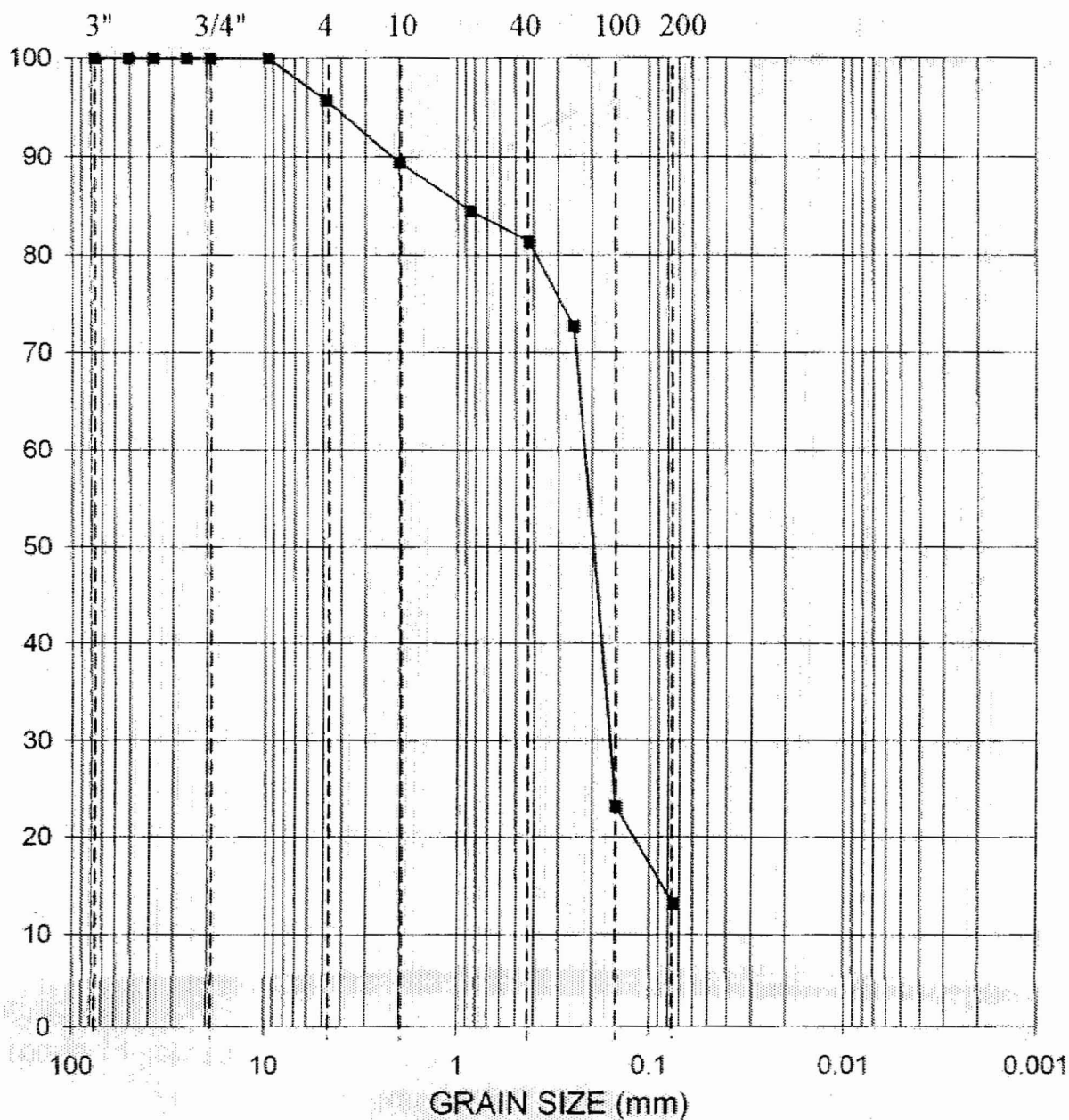
GRADATION CURVE ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No. 06120048.00	Date: 9/11/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-401	43.5	Silty SAND, trace shells, dark brown	SM		



PERCENT FINER BY WEIGHT

U.S. Standard Sieve Nos.



GRAVEL

SAND

SILT OR CLAY

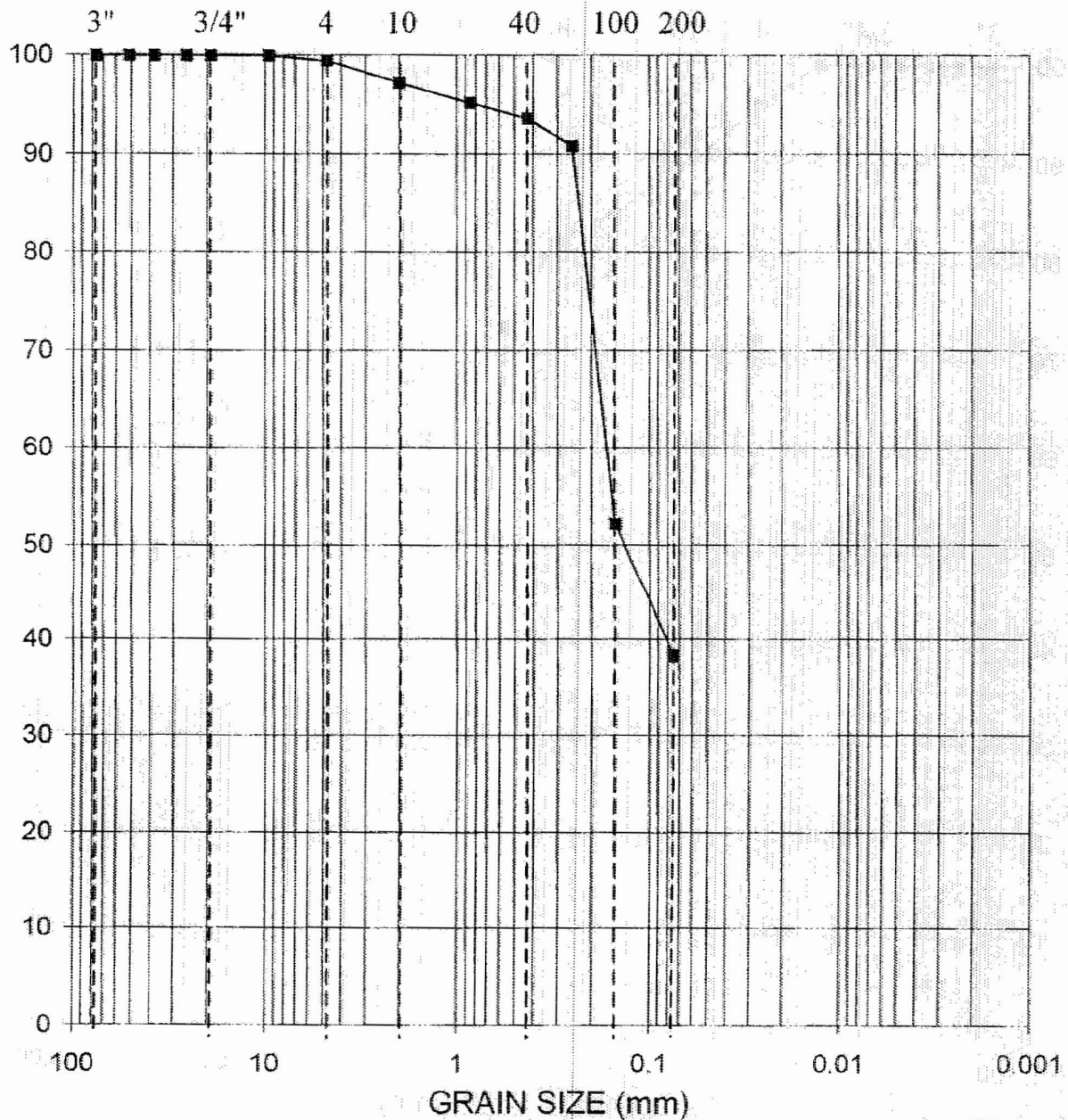
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/11/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-401	58.5	Silty SAND, trace shells, dark gray	SM				

U.S. Standard Sieve Nos.

PERCENT FINER BY WEIGHT



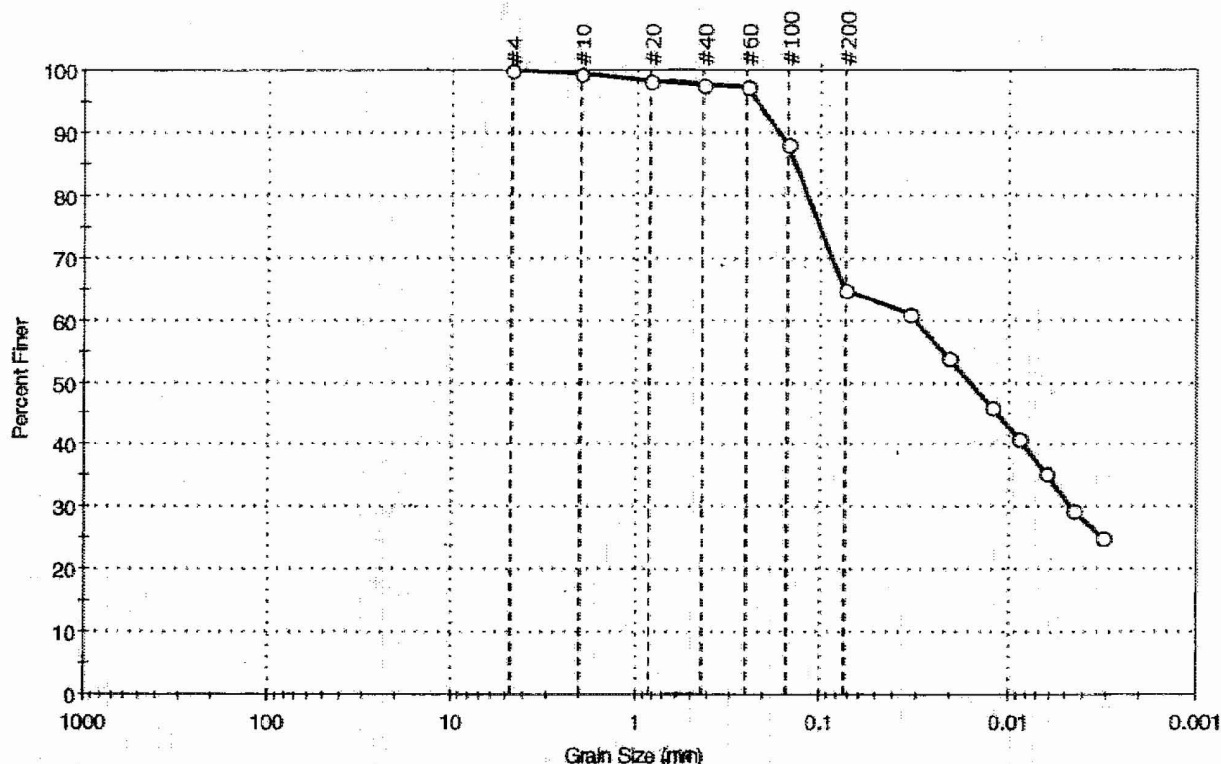
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/11/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-401	88.5	Silty SAND, contains shells, dark gray	SM				

Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Project No: GTX-6880
Location: Calvert County, MD	Boring ID: B-401	Sample Type: tube
Sample ID: S-23	Test Date: 10/17/06	Tested By: sam
Depth: 98.5-99.8 ft	Test Id: 97806	Checked By: mcm
Test Comment: ---		
Sample Description: Moist, dark gray sandy clay		
Sample Comment: ---		

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	35.2	64.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	99		
#20	0.85	98		
#40	0.425	98		
#60	0.25	97		
#100	0.15	88		
#200	0.075	65		
—	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
—	0.0311	61		
—	0.0208	54		
—	0.0122	46		
—	0.0067	41		
—	0.0063	35		
—	0.0045	30		
—	0.0032	25		

Coefficients

D ₈₅ = 0.1360 mm	D ₃₀ = 0.0046 mm
D ₆₀ = 0.0311 mm	D ₁₅ = N/A
D ₅₀ = 0.0160 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification

ASTM Sandy elastic silt (MH)

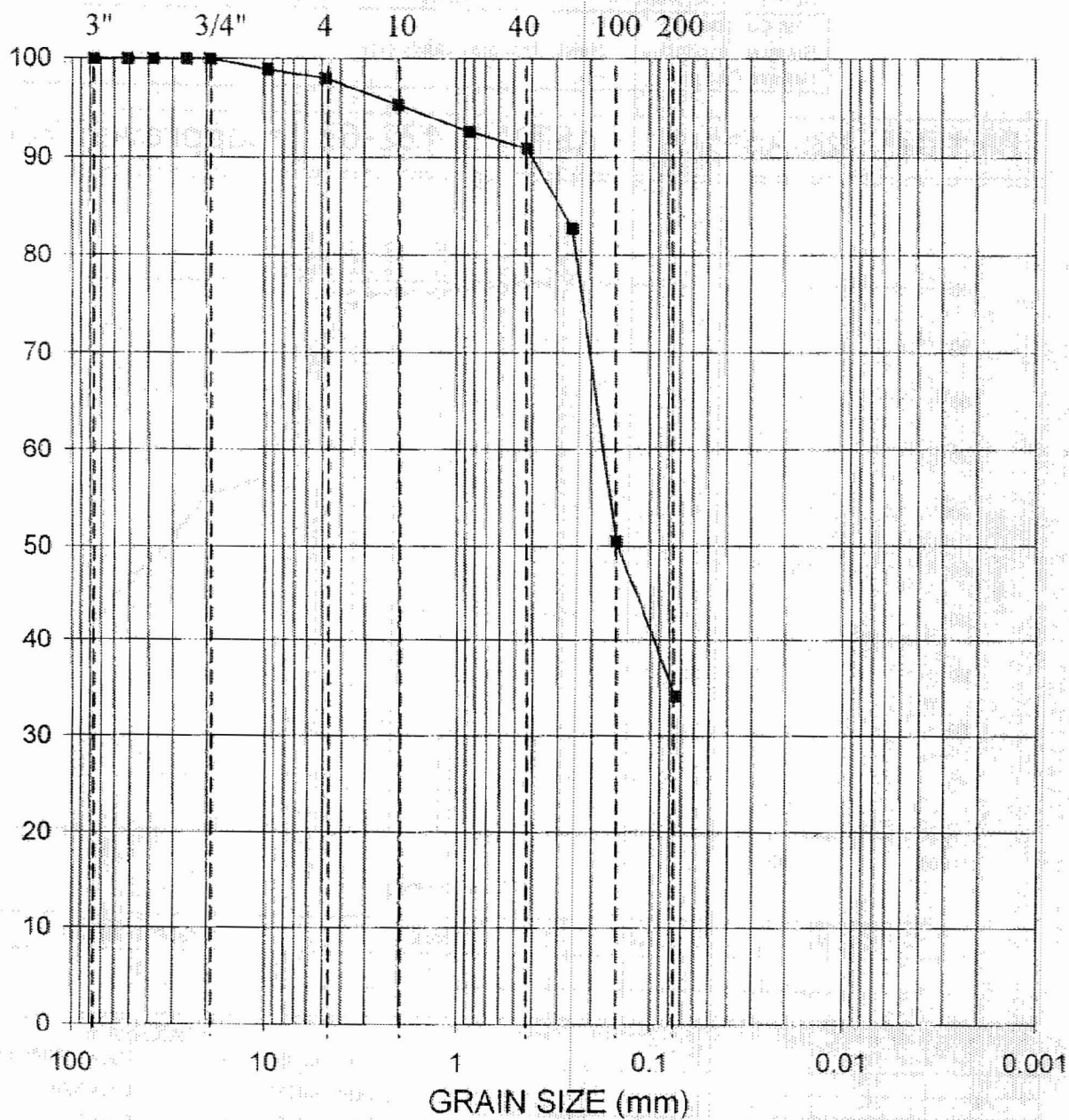
AASHTO Clayey Soils (A-7-5 (25))

Sample/Test Description

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

PERCENT FINER BY WEIGHT

U.S. Standard Sieve Nos.



GRAVEL

SAND

SILT OR CLAY

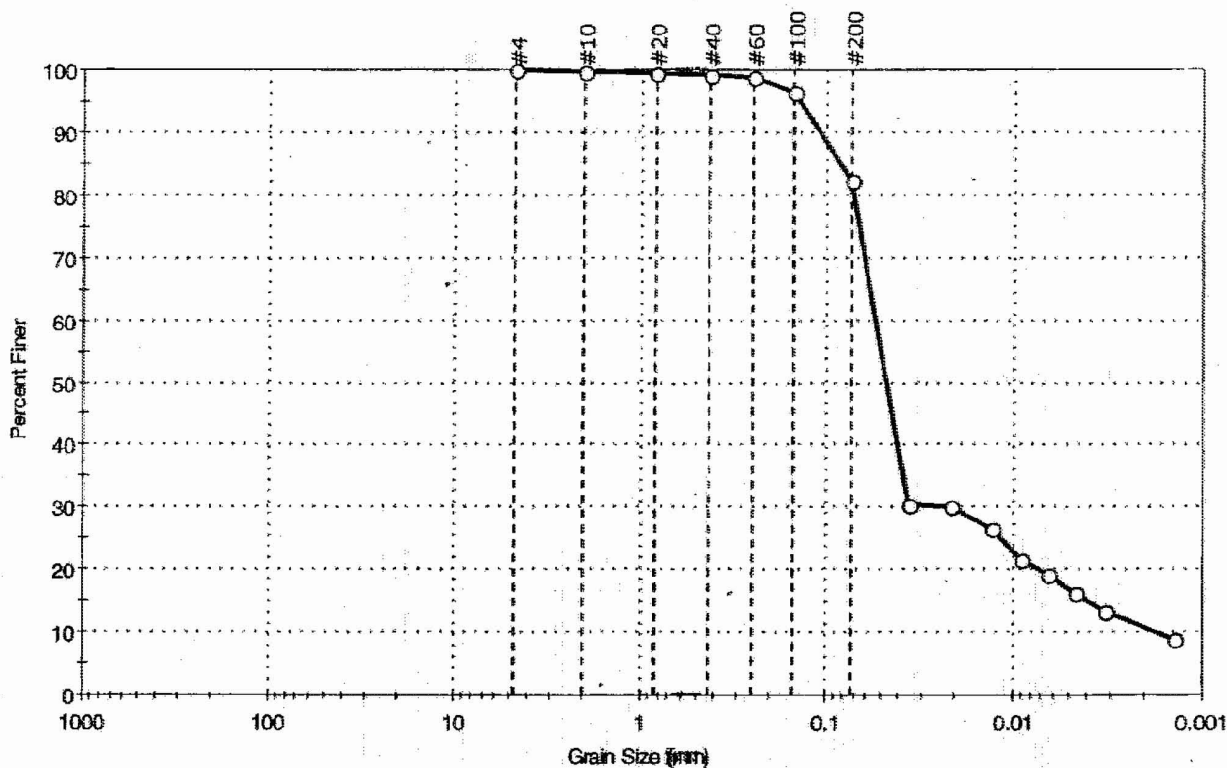
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/11/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-401	108.5	Silty SAND, trace shells, dark green	SM				

Client: Schnabel Engineering, Inc.
 Project: Subsurface Investigation Calvert Cliffs Nuclear PP
 Location: Calvert County, MD Project No: GTX-6880
 Boring ID: B-401 Sample Type: tube Tested By: sam
 Sample ID: S-28 Test Date: 10/17/06 Checked By: mcm
 Depth: 123.5-124.8 ft Test ID: 97814
 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
—	0.0	17.6	82.4

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	97		
#200	0.074	82		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0357	31		
---	0.0213	30		
---	0.0127	26		
---	0.0091	22		
---	0.0064	19		
---	0.0046	16		
---	0.0032	13		
---	0.0014	9		

Coefficients

$D_{85} = 0.0844$ mm $D_{30} = 0.0212$ mm
 $D_{60} = 0.0540$ mm $D_{15} = 0.0039$ mm
 $D_{50} = 0.0470$ mm $D_{10} = 0.0017$ mm
 $C_u = N/A$ $C_c = N/A$

Classification

ASTM elastic silt with sand (MH)

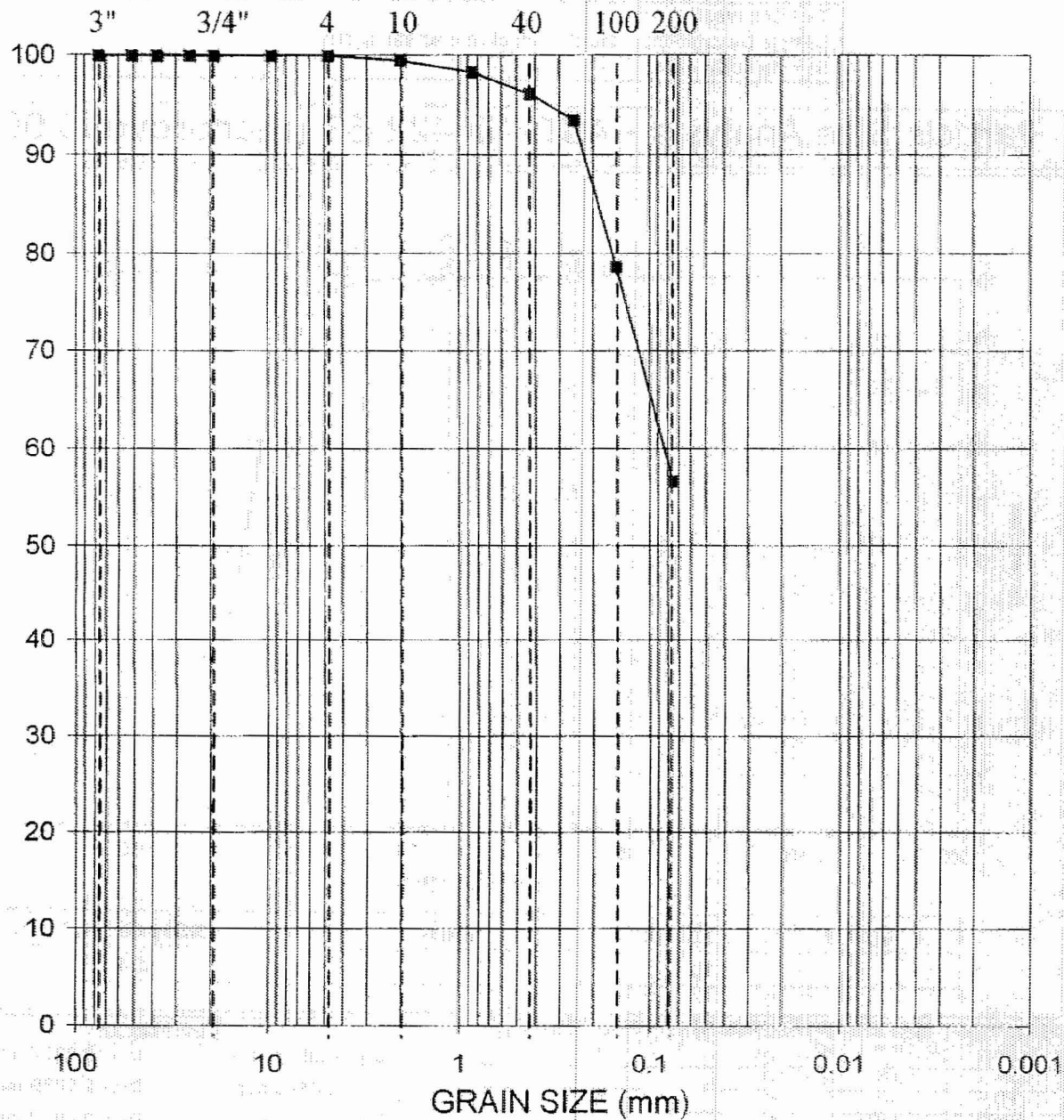
AASHTO Clayey Soils (A-7-5 (37))

Sample/Test Description

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

PERCENT FINER BY WEIGHT

U.S. Standard Sieve Nos.

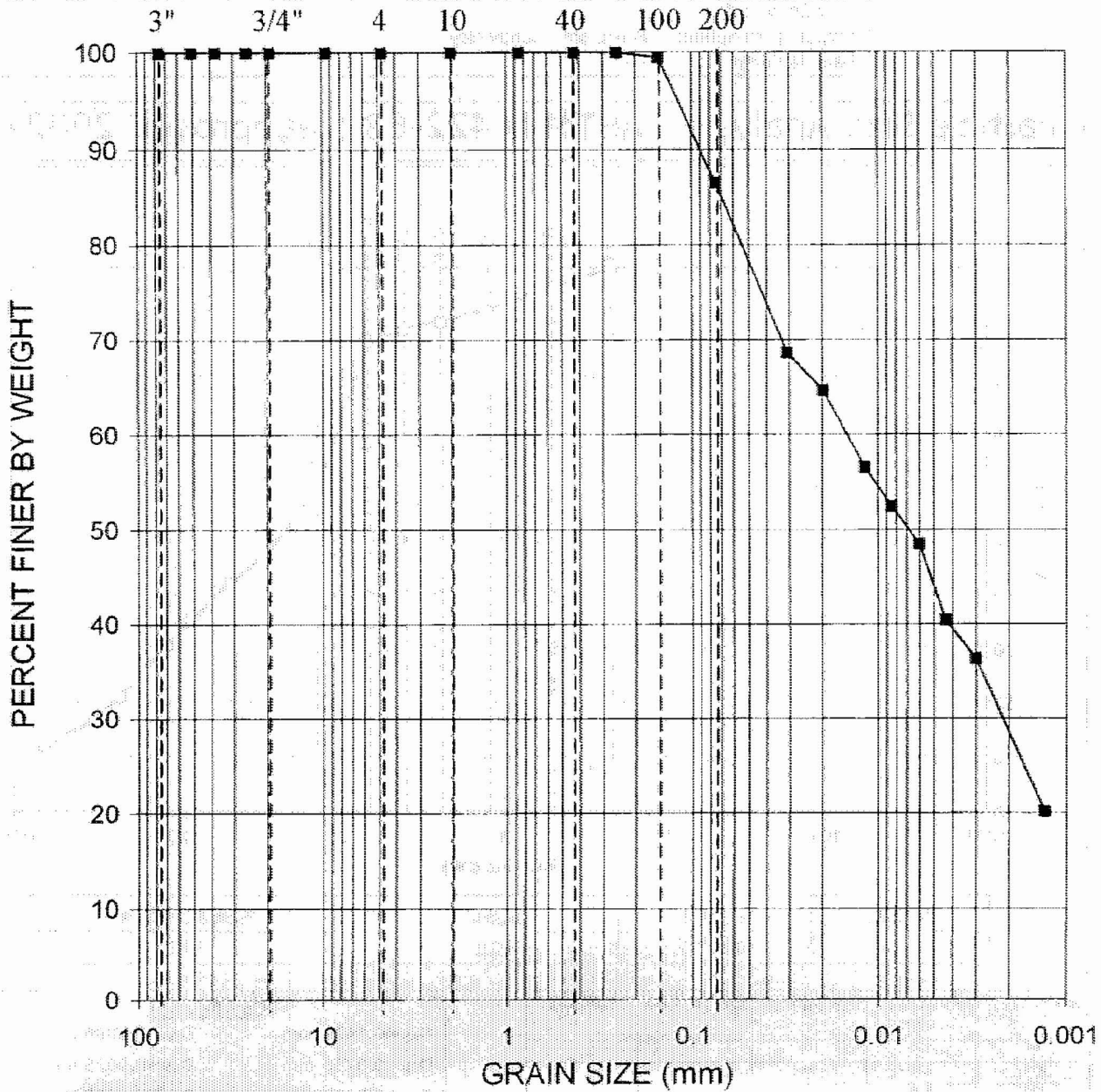


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date	9/11/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-401	128.5	Sandy SILT, contains shells, dark green	ML				

U.S. Standard Sieve Nos.



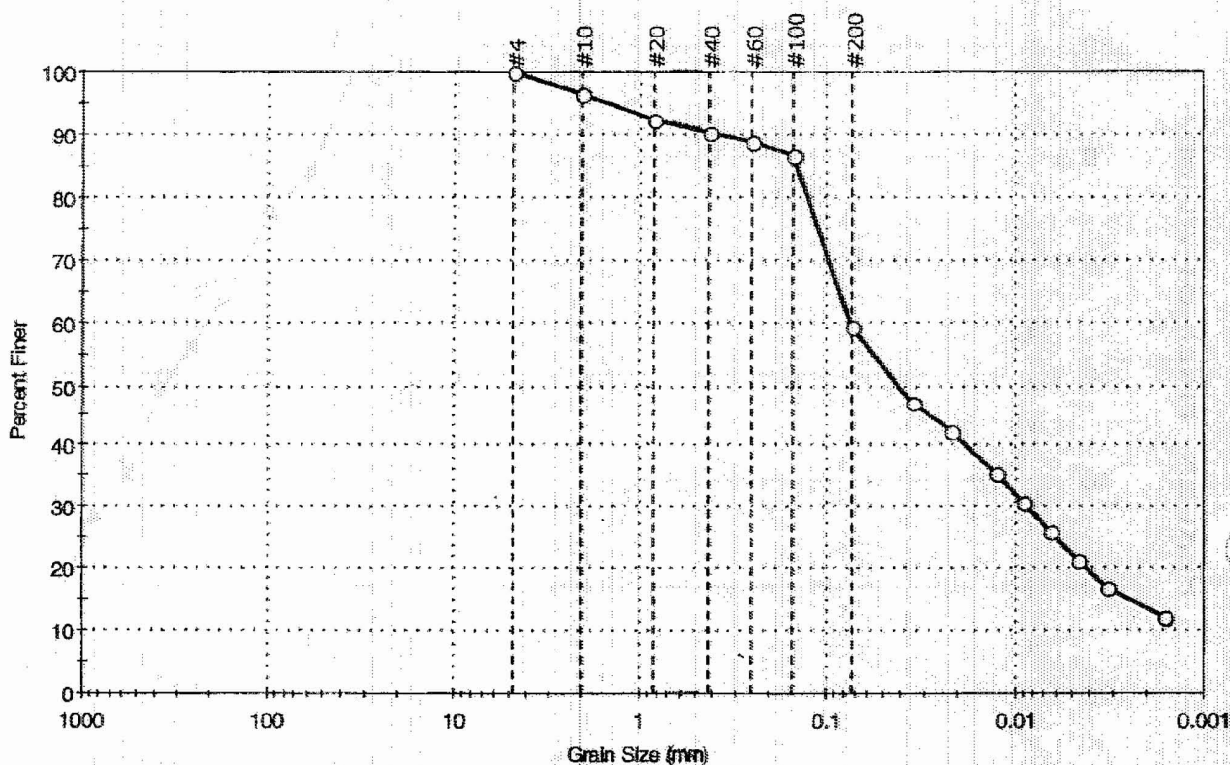
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date:	9/18/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-401	148.5	ELASTIC SILT, dark green	MH	150	61		

Client: Schnabel Engineering, Inc.	Project No: GTX-6880
Project: Subsurface Investigation Calvert Cliffs Nuclear PP	
Location: Calvert County, MD	
Boring ID: B-401	Sample Type: tube
Sample ID: S-35	Test Date: 09/22/06
Depth: 158.5-159.3 ft	Test Id: 97822
Test Comment: ---	Tested By: sam
Sample Description: Moist, olive sandy clay	Checked By: mcm
Sample Comment: ---	

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	40.8	59.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	97		
#20	0.84	92		
#40	0.42	90		
#60	0.25	89		
#100	0.15	87		
#200	0.074	59		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0347	47		
---	0.0217	42		
---	0.0126	35		
---	0.0090	31		
---	0.0064	26		
---	0.0046	21		
---	0.0032	17		
---	0.0016	12		

Coefficients

D ₈₅ = 0.1428 mm	D ₃₀ = 0.0086 mm
D ₆₀ = 0.0756 mm	D ₁₅ = 0.0025 mm
D ₅₀ = 0.0417 mm	D ₁₀ = 0.0012 mm
C _u = N/A	C _c = N/A

Classification

ASTM Sandy elastic silt (MH)

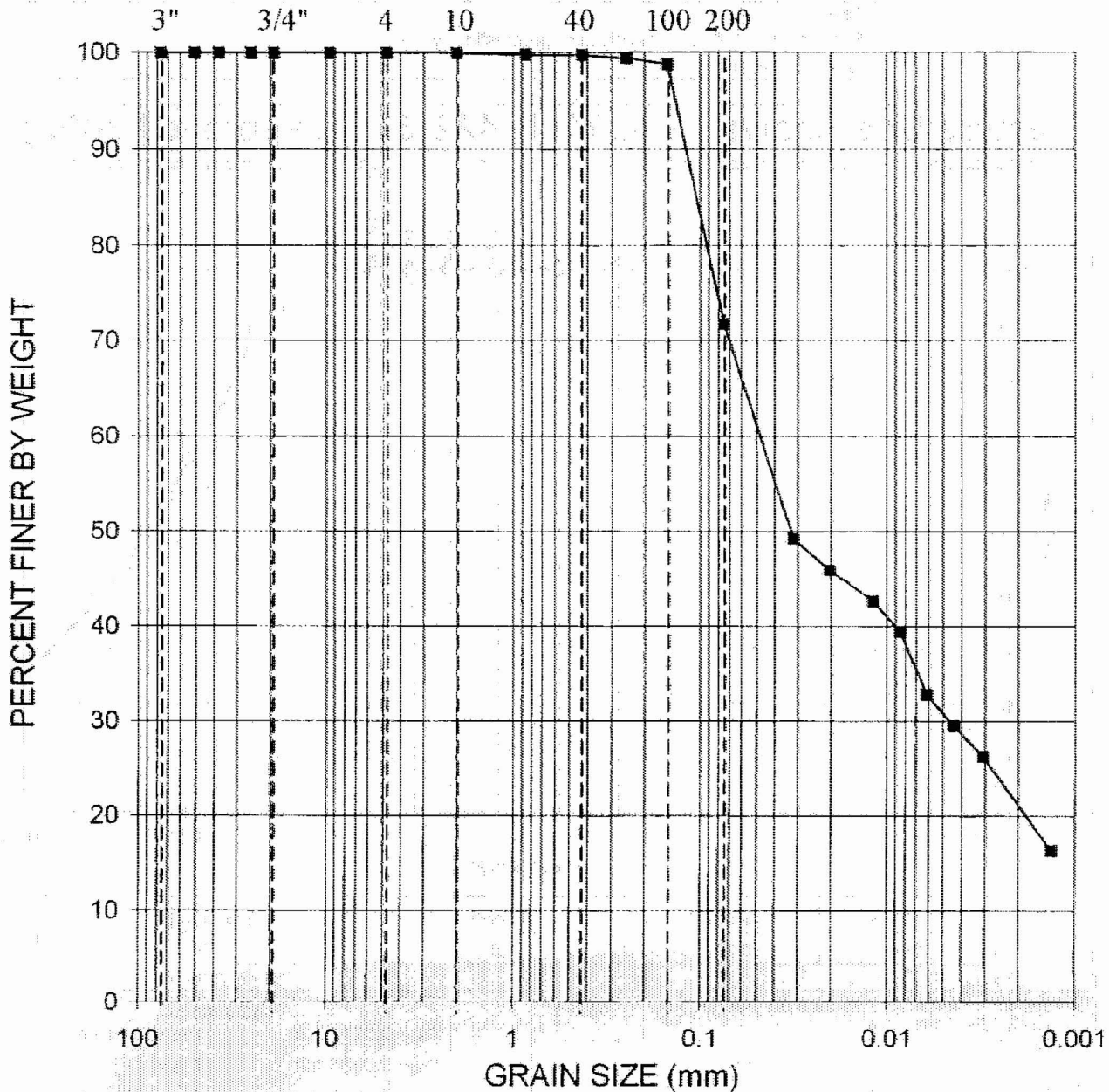
AASHTO Clayey Soils (A-7-5 (20))

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

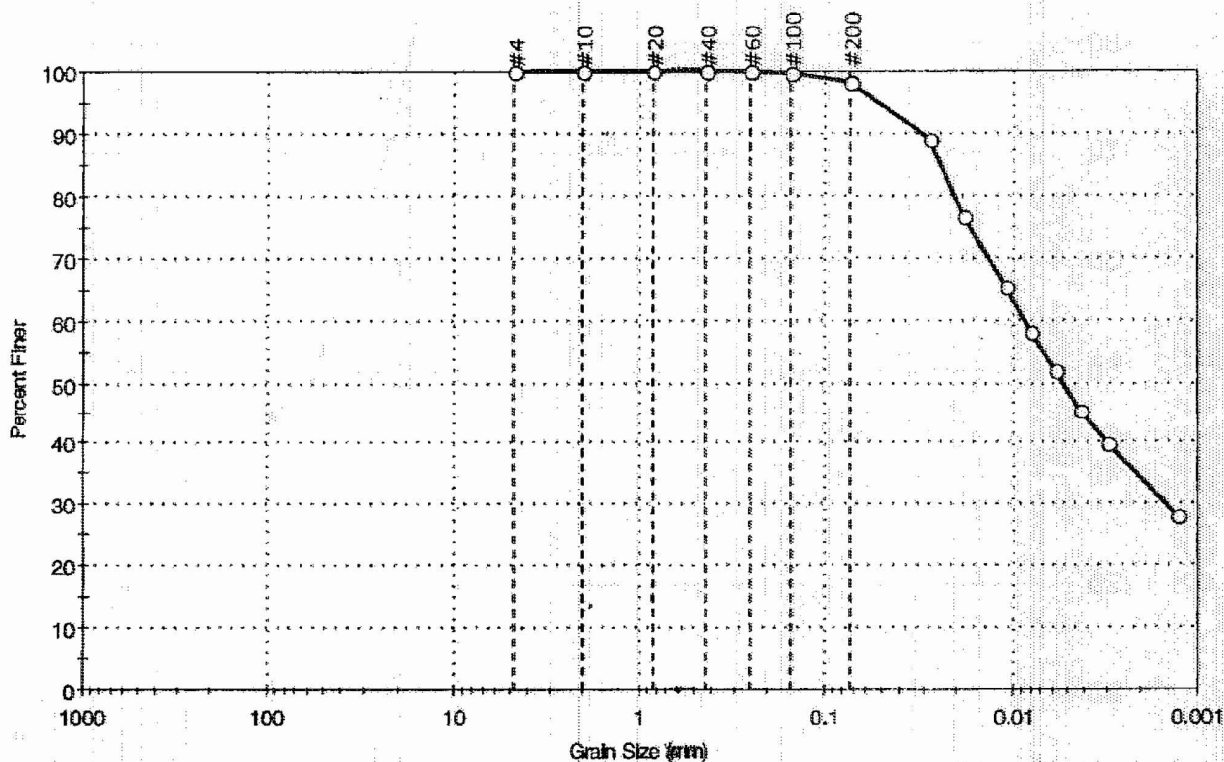
Project:	Constellation Energy Group COLA Project Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 9/14/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-401	168.5	ELASTIC SILT, with sand, dark green	MH	103	51	

GeoTesting express

a subsidiary of Geocomp Corporation

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-401	Sample Type: tube
Sample ID: S-37	Test Date: 10/27/06
Depth: 173.5-174.4 ft	Test ID: 97830
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	1.8	98.2

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	100		
#200	0.075	98		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.025	89		
---	0.018	77		
---	0.015	65		
---	0.012	58		
---	0.01	52		
---	0.008	45		
---	0.006	40		
---	0.005	28		

Coefficients

D ₈₅ = 0.0243 mm	D ₃₀ = 0.0015 mm
D ₆₀ = 0.0086 mm	D ₁₅ = N/A
D ₅₀ = 0.0052 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification

ASTM fat clay (CH)

AASHTO Clayey Soils (A-7-6 (48))

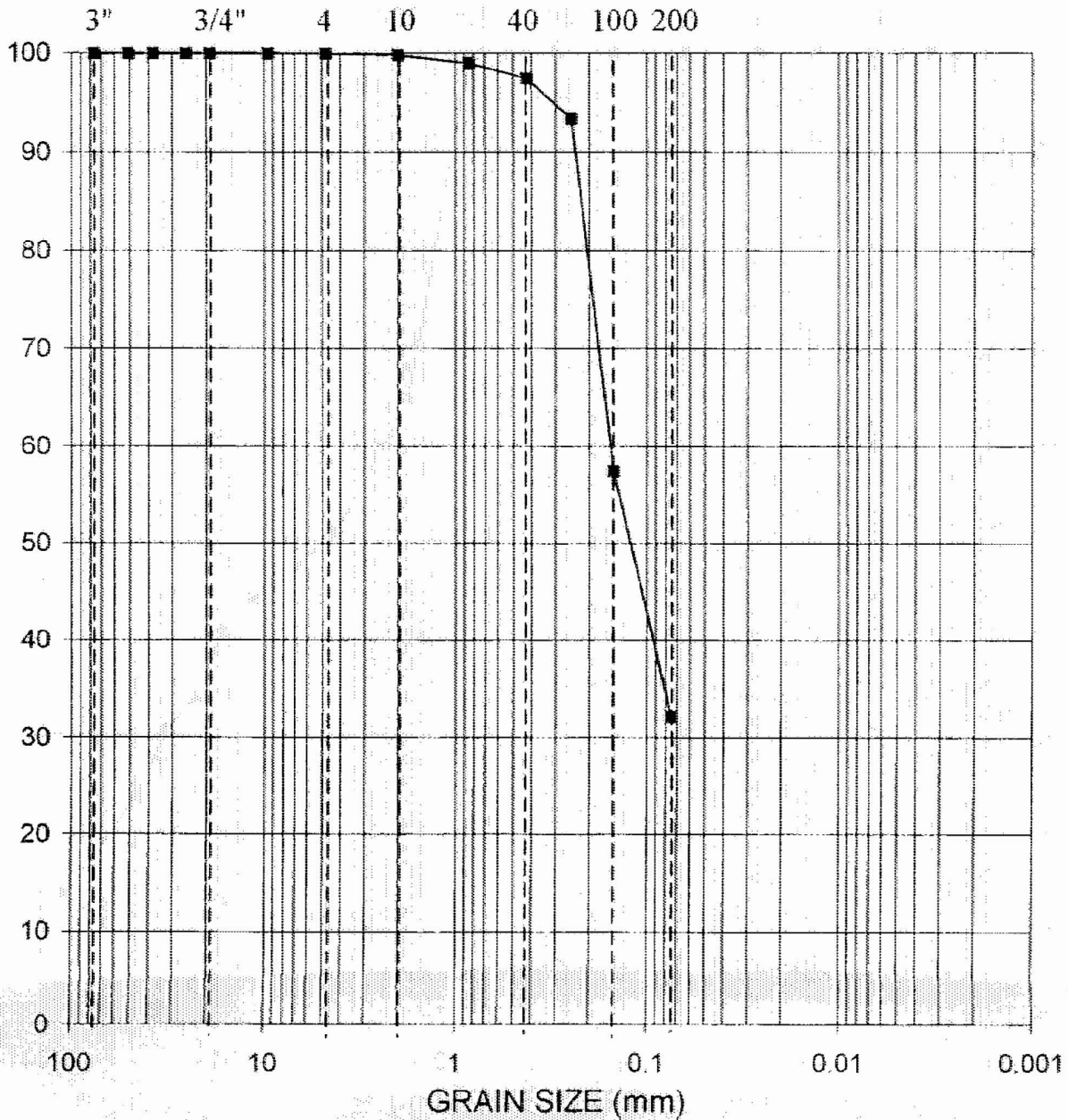
Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

U.S. Standard Sieve Nos.

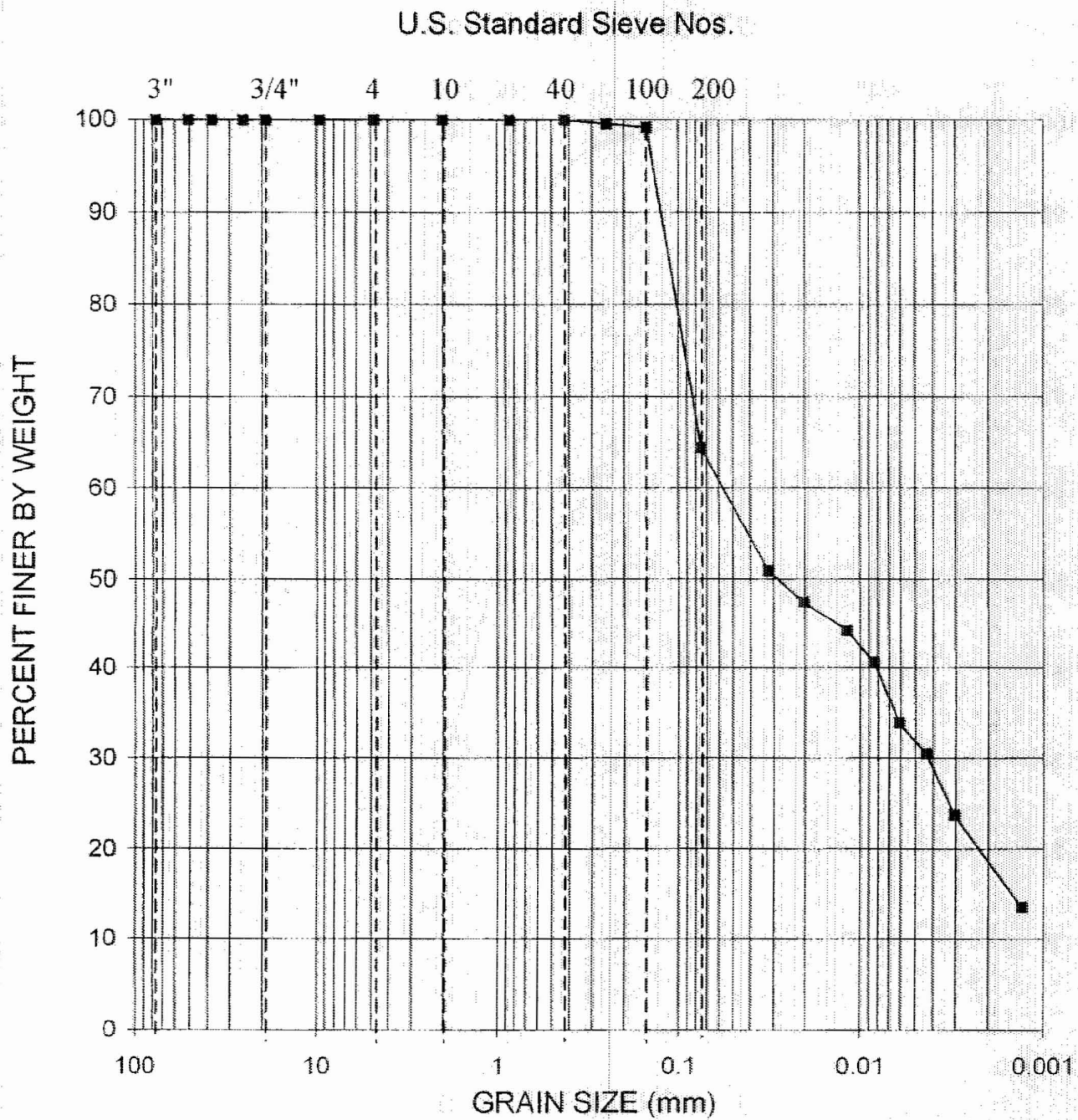
PERCENT FINER BY WEIGHT



GRAVEL	SAND	SILT OR CLAY
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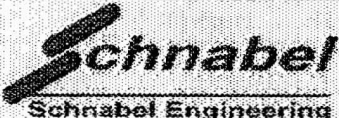
GRADATION CURVE ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date:	9/11/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-401	183.5	Silty SAND, contains shells, dark green	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:	9/12/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-401	208.5	Sandy ELASTIC SILT, dark green	MH	113	39		