

SUMMARY OF LABORATORY TESTING

ABC 123 IMPOUNDMENT

PROJECT #: 1234567.89
SAMPLES: 14
REPORT: 05/22/14

SAMPLED: -
LOCATION: *Baltimore, MD*
REMARKS: -

JAY KAY TESTING
 5233 Lehman Road, Suite 110
 Spring Grove, PA 17362
 Phone: (410) 259-5101

BORING	SAMPLE	DEPTH	MC %	OM %	LL	PL	PI	% FINES	USCS
B-1	Bulk	0-5.0	15.4	-	35	20	15	38.6	SC
B-1	S-1	1.5-3.0	12.8	-	27	24	3	20.6	SM
B-1	S-2	3.0-4.5	13.4	-	32	27	5	96.3	ML
B-1	S-3	4.5-6.0	13.1	-	40	25	15	99.1	CL
B-1	S-4	6.0-7.5	12.4	-	46	22	24	94.1	CL
B-2	S-1	0-2.0	11.8	-	30	25	5	32.8	GM
B-2	S-2	2.0-4.0	13.9	-	28	20	8	54.1	CL
B-2	S-3	4.0-6.0	12.8	-	27	17	10	46.8	SC
B-2	S-4	8.0-10.0	15.1	-	31	22	9	32.1	GC
B-3	S-1	18.0-20.0	12.8	-	30	22	8	60.9	CL
B-3	S-2	23.5-25.0	13.1	-	36	22	14	44.9	SC
B-3	S-3	28.5-30.0	13.8	-	34	21	13	40.2	SC
B-3	S-4	33.5-35.0	12.4	-	42	25	17	85.1	CL
B-4	Tube	23.5-25.0	13.8	-	24	17	7	57.0	CL-ML

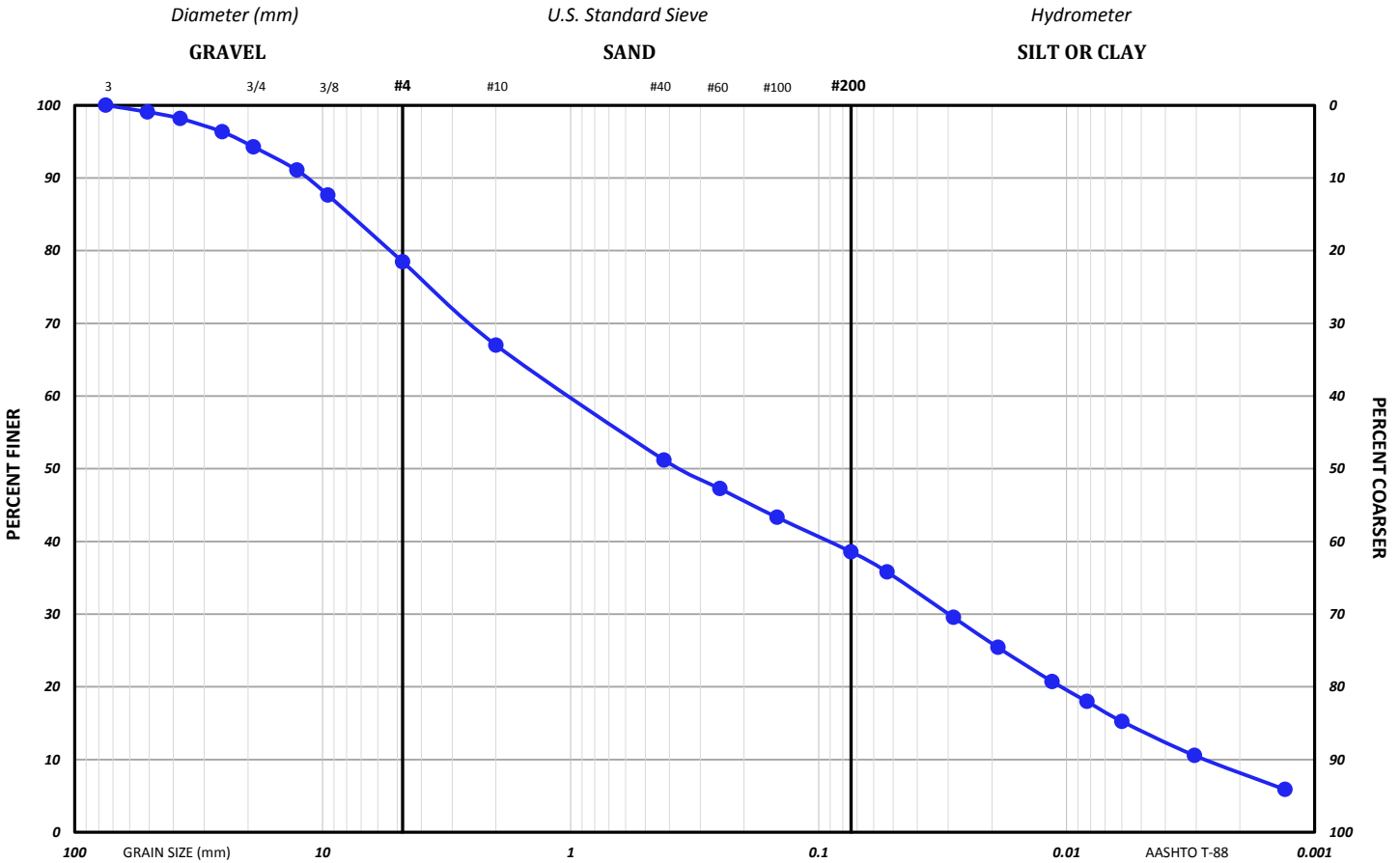
Jay Kay Testing (AASHTO-Accredited)

ABC 123 IMPOUNDMENT

BORING: B-1
SAMPLE: Bulk
DEPTH: 0-5.0

PROJECT #: 1234567.89
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GRAIN SIZE ANALYSIS

Diameter	75.0	50.8	37.5	25.4	19.0	12.7	9.51	4.76	2.0	0.42	0.25	0.147	0.074
Sieve Size	3"	2"	1.5"	1"	3/4"	1/2"	3/8"	#4	#10	#40	#60	#100	#200
% Passing	100.0	99.1	98.2	96.3	94.3	91.1	87.6	78.5	67.0	51.2	47.3	43.3	38.6

% GRAVEL	% SAND	Coarse Gravel	Fine Gravel	Coarse Sand	Medium Sand	Fine Sand	CC	CU
21.5	39.9	5.7	15.8	11.5	15.8	12.6	-	-

Moisture Content	15.4	Organic Content	-
pH	-	Other	-

ATTERBERG LIMITS

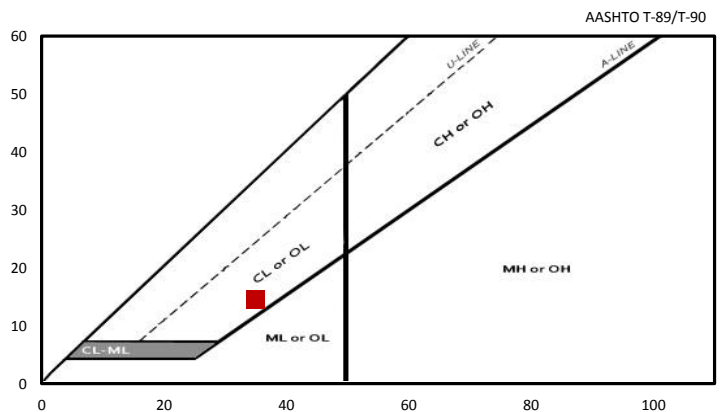
Liquid Limit	35
Plastic Limit	20
Plasticity Index	15

CLASSIFICATION

AASHTO	A-6
USCS	SC

SOIL DESCRIPTION

Brown clayey SAND with gravel



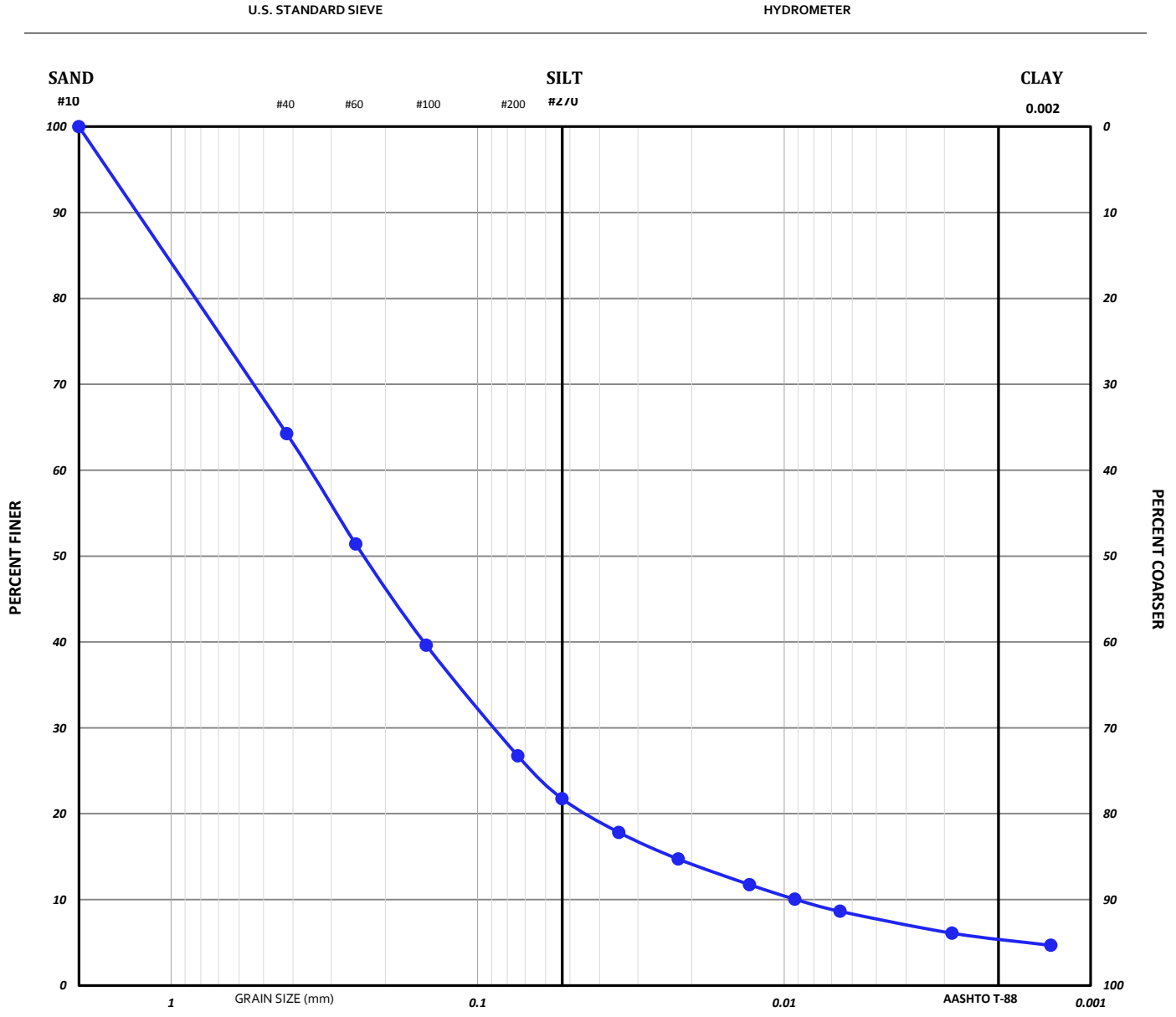
ABC 123 IMPOUNDMENT

BORING: B-1
 SAMPLE: S-1
 DEPTH: 1.5-3.0'

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USDA RESULTS



PERCENT SAND	PERCENT SILT	PERCENT CLAY	USDA CLASSIFICATION
78.3	16.4	5.3	LOAMY SAND

MC	LL	PL	PI	USCS	AASHTO
12.8	27	24	3	SM	A-2-4

ABC 123 IMPOUNDMENT

BORING: B-1
 SAMPLE: Bulk
 DEPTH: 0-5.0'

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MODIFIED PROCTOR TEST RESULTS

TEST METHOD: AASHTO T-180 (C)

Maximum Dry Unit Weight

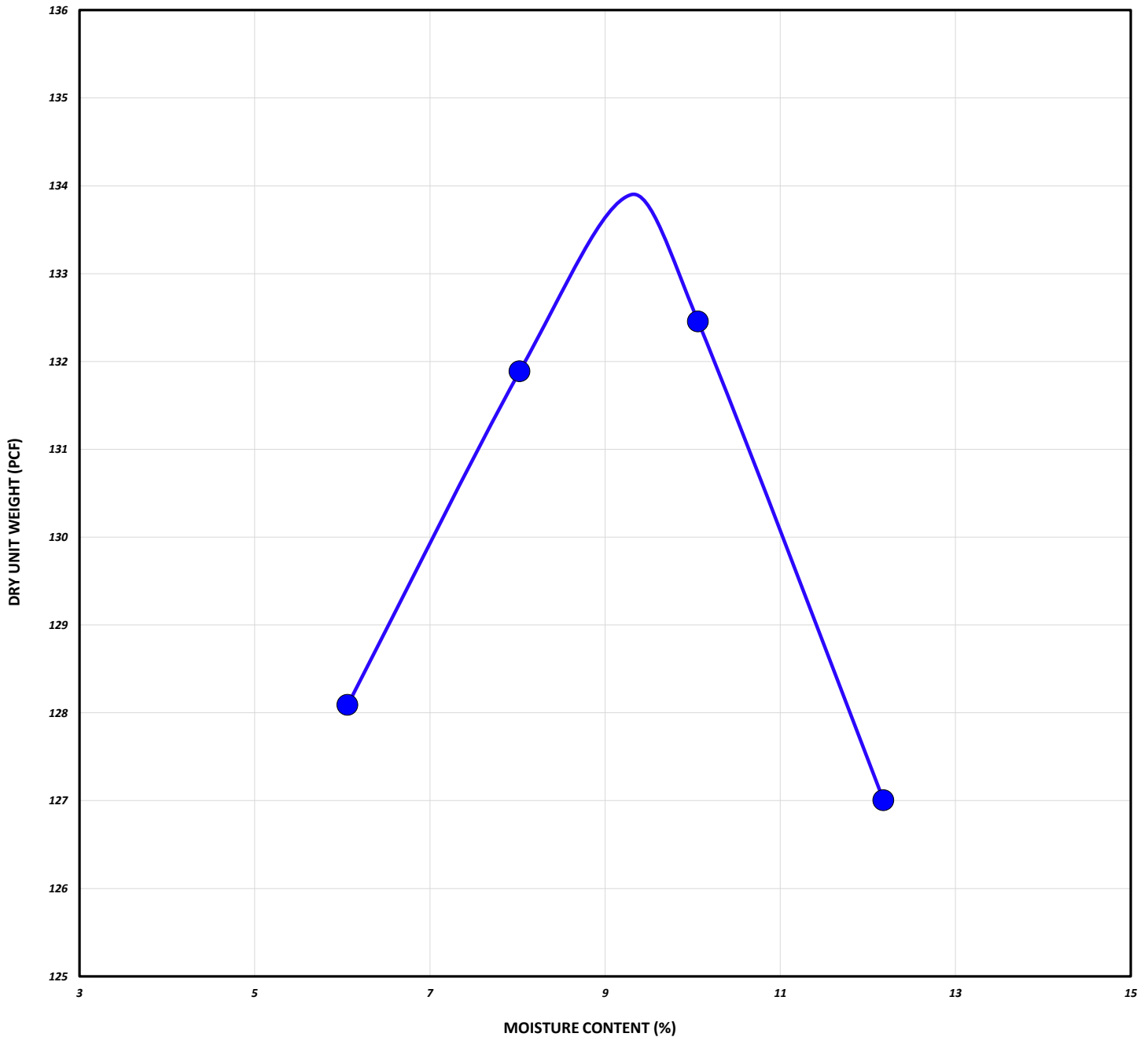
133.9

PCF

Optimum Moisture Content

9.3

%



MC	LL	PL	PI	USCS	AASHTO	FINES	SOIL DESCRIPTION
15.4	35	20	15	SC	A-6	38.6	Brown clayey SAND with gravel

ABC 123 IMPOUNDMENT

BORING: B-1
 SAMPLE: Bulk
 DEPTH: 0-5.0'

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CALIFORNIA BEARING RATIO TEST RESULTS

CORRECTED CBR AT 0.1"

CORRECTED CBR AT 0.2"

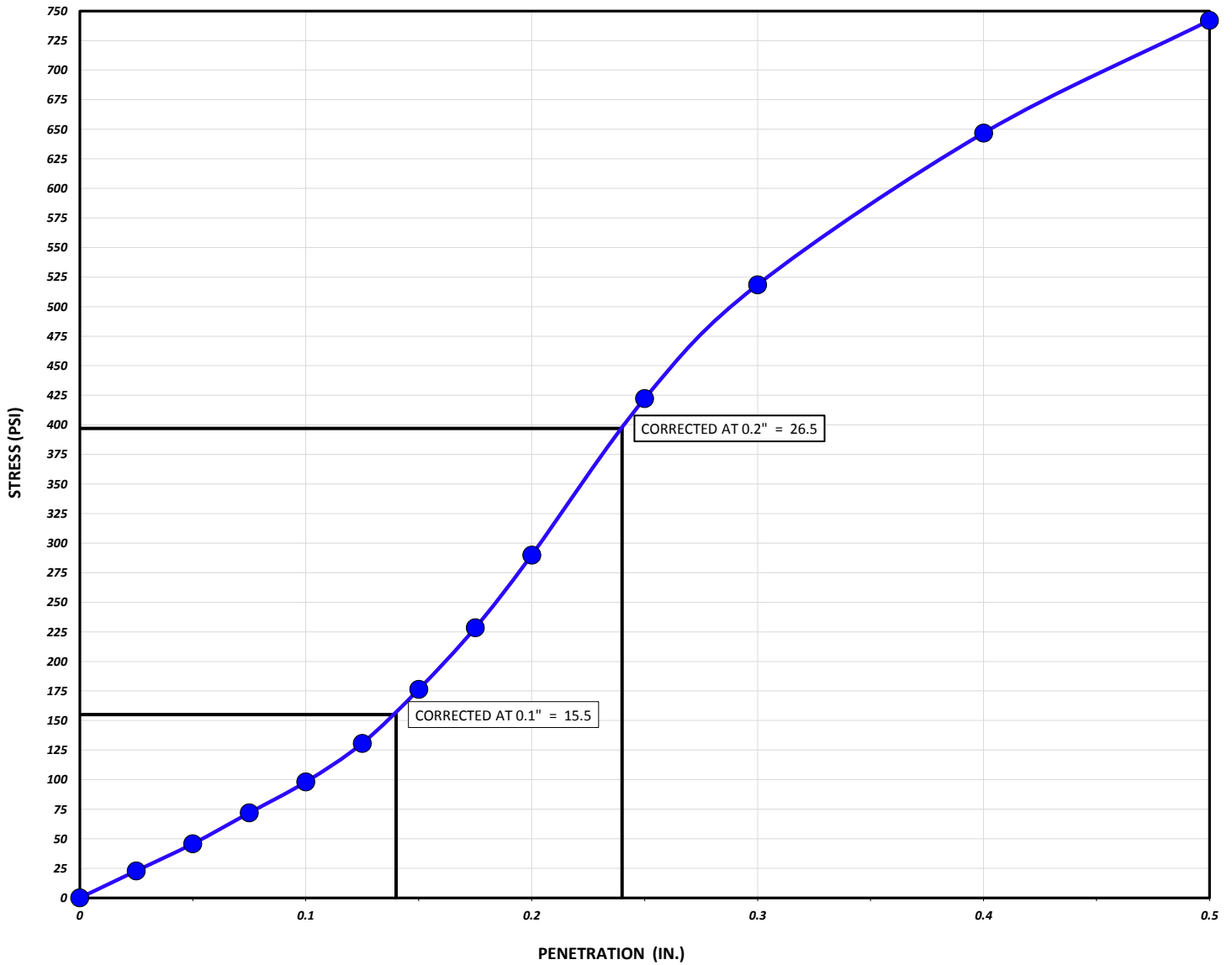
METHOD: AASHTO T-193, COMPACTION: AASHTO T-180 (C)

15.5

26.5

SURCHARGE: 75 PSF

	DRY UNIT WEIGHT (PCF)	MOISTURE CONTENT (%)	COMPACTION (%)	SWELL (%)
<i>As Molded</i>	118.9	9.4	88.8	-
<i>After Soak</i>	115.8	13.6	86.5	1.18



MC	LL	PL	PI	USCS	AASHTO	FINES	SOIL DESCRIPTION
15.4	35	20	15	SC	A-6	38.6	Brown clayey SAND with gravel

ABC 123 IMPOUNDMENT

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 SAMPLE: Bulk
 DEPTH: 0-5.0'

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CALIFORNIA BEARING RATIO TEST RESULTS

CBR AT 0.1"

CBR AT 0.2"

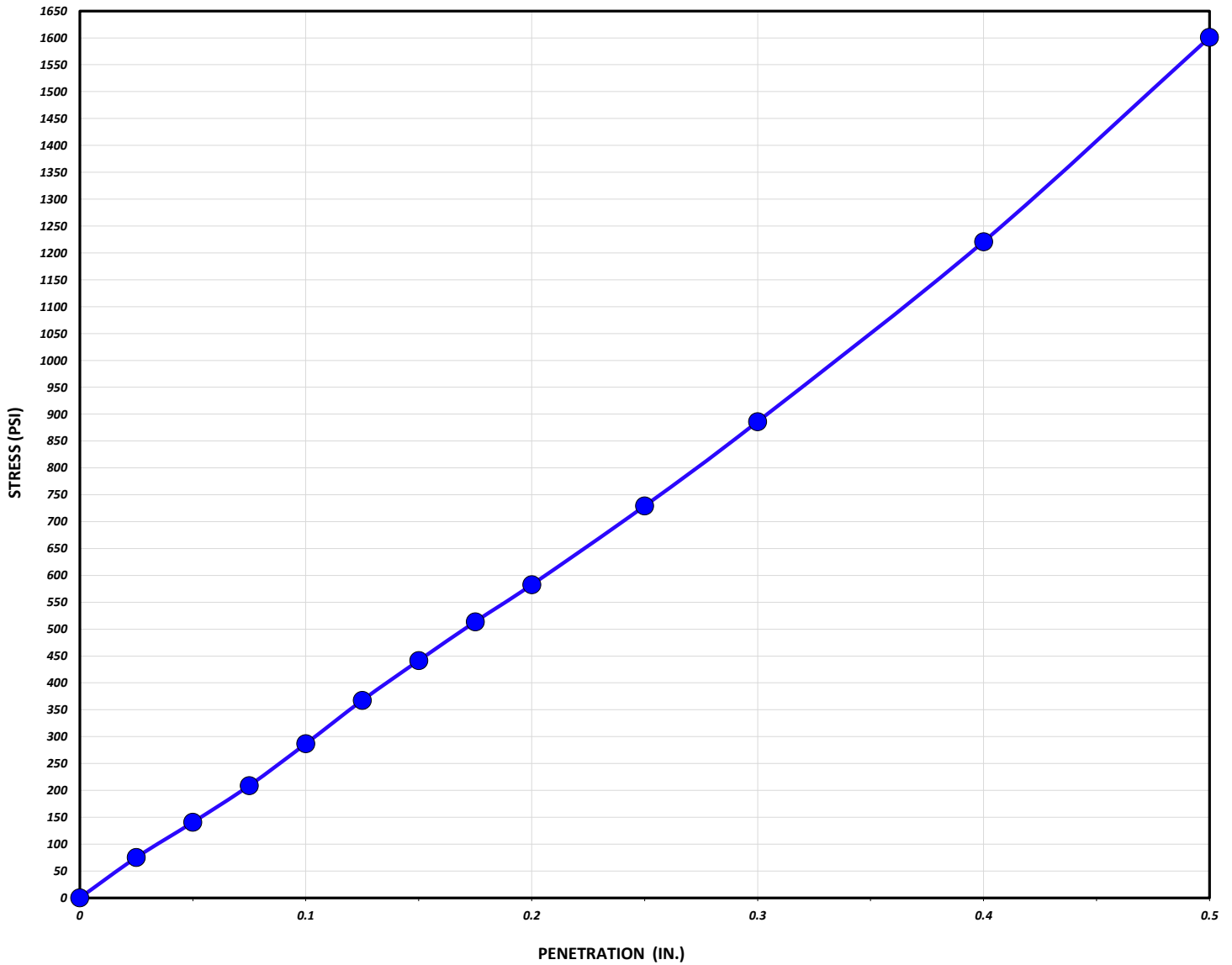
METHOD: AASHTO T-193, COMPACTION: AASHTO T-180 (C)

28.7

38.8

SURCHARGE: 75 PSF

	DRY UNIT WEIGHT (PCF)	MOISTURE CONTENT (%)	COMPACTION (%)	SWELL (%)
<i>As Molded</i>	122.6	9.6	91.6	-
<i>After Soak</i>	122.3	11.6	91.4	0.74



MC	LL	PL	PI	USCS	AASHTO	FINES	SOIL DESCRIPTION
15.4	35	20	15	SC	A-6	38.6	Brown clayey SAND with gravel

ABC 123 IMPOUNDMENT

BORING: B-1
 SAMPLE: Bulk
 DEPTH: 0-5.0'

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CALIFORNIA BEARING RATIO TEST RESULTS

CBR AT 0.1"

CBR AT 0.2"

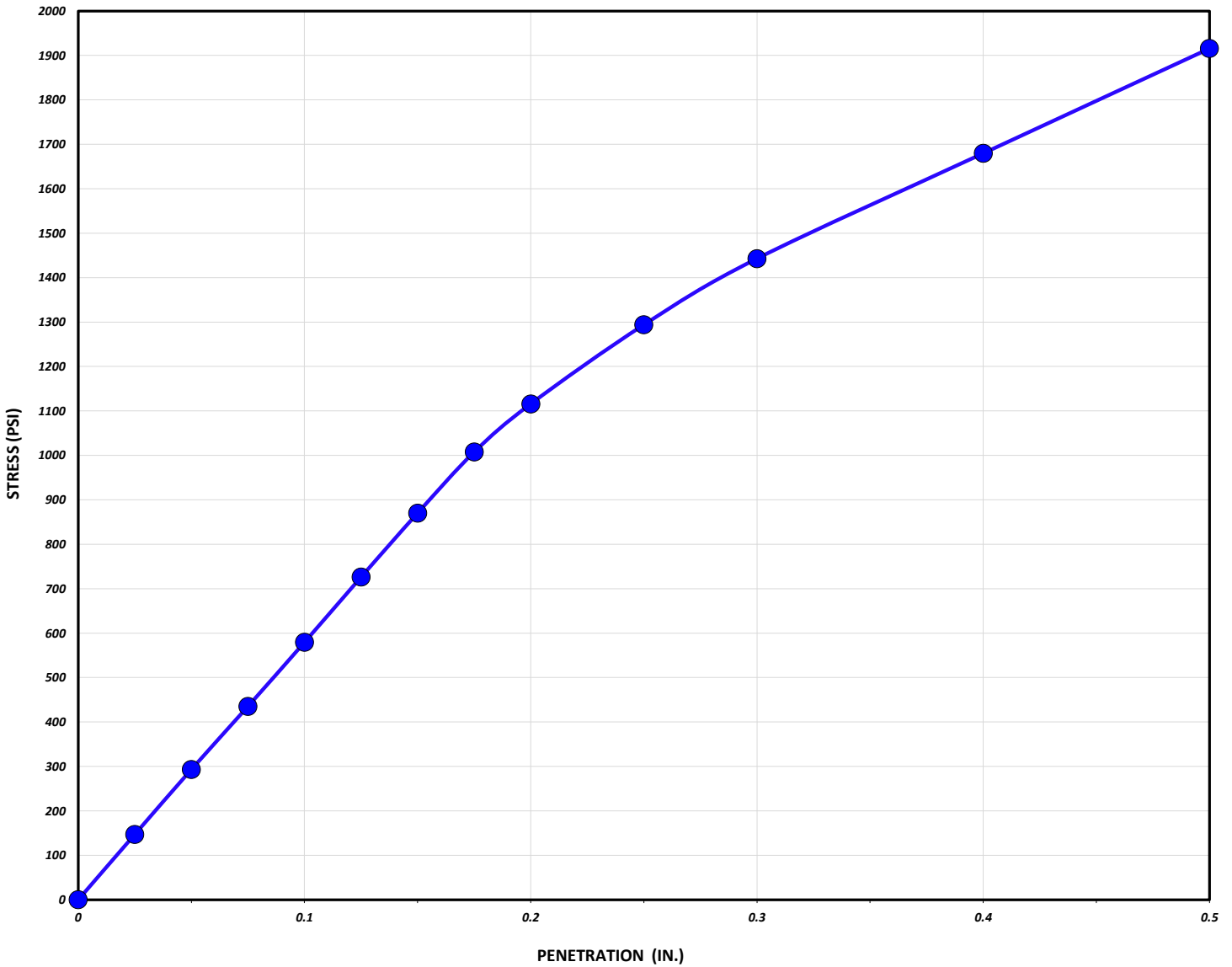
METHOD: AASHTO T-193, COMPACTION: AASHTO T-180 (C)

57.9

74.4

SURCHARGE: 75 PSF

	DRY UNIT WEIGHT (PCF)	MOISTURE CONTENT (%)	COMPACTION (%)	SWELL (%)
<i>As Molded</i>	127.1	9.3	94.9	-
<i>After Soak</i>	128.8	9.9	96.2	0.31



MC	LL	PL	PI	USCS	AASHTO	FINES	SOIL DESCRIPTION
15.4	35	20	15	SC	A-6	38.6	Brown clayey SAND with gravel

ABC 123 IMPOUNDMENT

BORING: B-1
 SAMPLE: Bulk
 DEPTH: 0-5.0'

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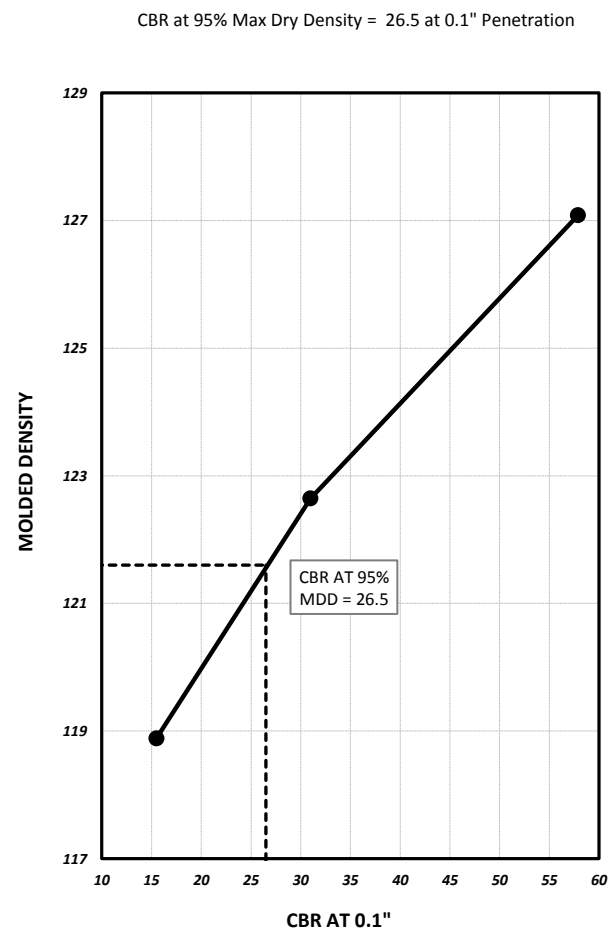
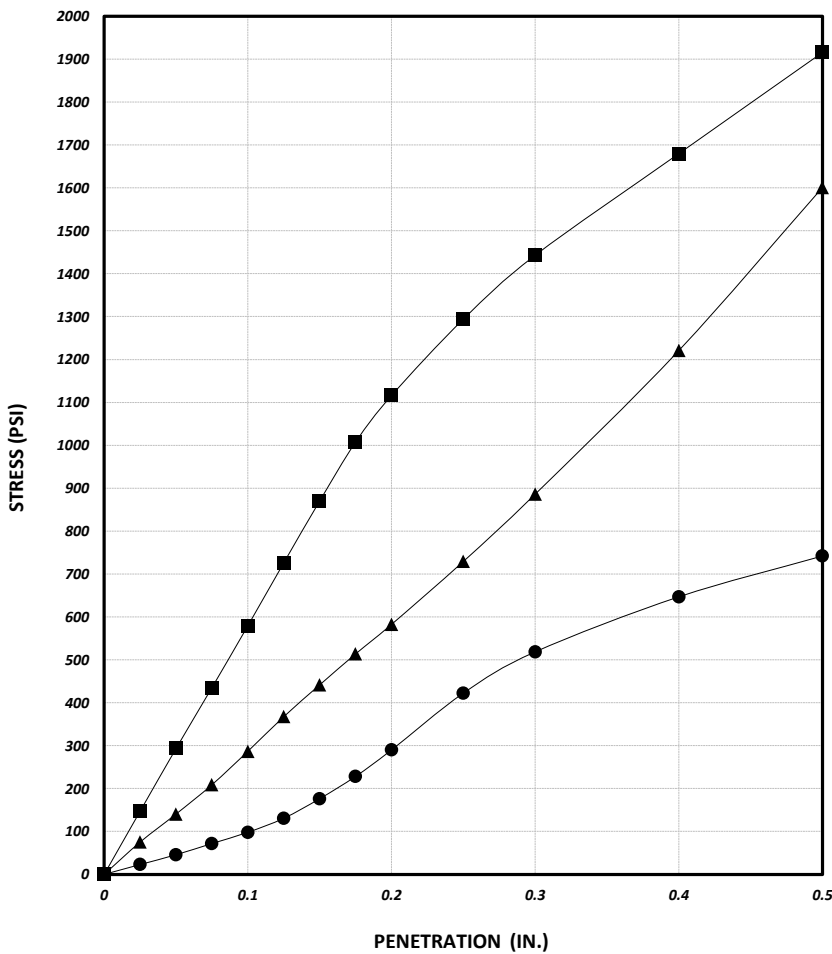
CALIFORNIA BEARING RATIO TEST RESULTS

MAXIMUM DRY DENSITY: 128.0 PCF

OPTIMUM MOISTURE CONTENT: 9.3 %

METHOD: AASHTO T-193, COMPACTION: AASHTO T-180 (C)

	AS MOLDED			AFTER SOAK			SURCHARGE: 75 PSF			
	Compaction	Density	Moisture	Compaction	Density	Moisture	CBR at 0.1"	CBR at 0.2"	Blows	Swell
●	88.8	118.9	9.4	86.5	115.8	13.6	15.5*	26.5*	15	1.18
▲	91.6	122.6	9.6	91.4	122.3	11.6	31.0	38.8	30	0.74
■	94.9	127.1	9.3	96.2	128.8	9.9	57.9	74.4	60	0.31
	%	PCF	%	%	PCF	%	*DENOTES CORRECTED VALUE			%



MC	LL	PL	PI	USCS	AASHTO	FINES	SOIL DESCRIPTION
15.4	35	20	15	SC	A-6	38.6	Brown clayey SAND with gravel

ABC 123 IMPOUNDMENT

BORING: B-4
 SAMPLE: Tube
 DEPTH: 23.5-25.0'

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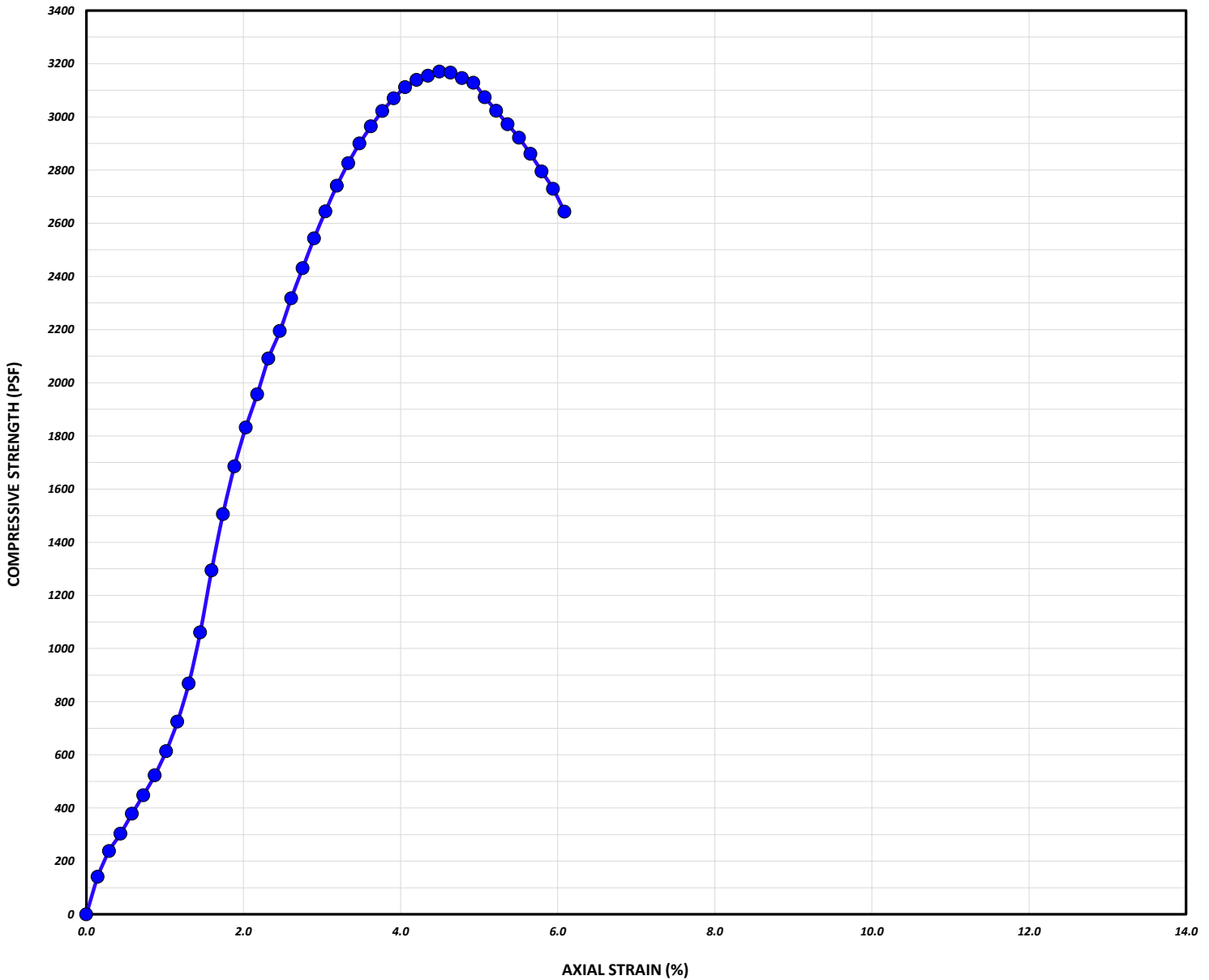
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UNCONFINED COMPRESSIVE STRENGTH TEST

UNCONFINED COMPRESSIVE STRENGTH: 3170.6 PSF
 Undrained Shear Strength: 1585.3 PSF

TEST METHOD: AASHTO T-208

	HEIGHT	DIAMETER	AREA	VOLUME	WET UNIT WEIGHT	DRY UNIT WEIGHT
<i>Initial Specimen Data</i>	6.90	2.85	6.37940	0.02547	131.2	109.8
	in.	in.	sq. in.	cu. ft.	cu. ft.	cu. ft.



MC	LL	PL	PI	USCS	AASHTO	FINES	SOIL DESCRIPTION
13.8	24	17	7	CL-ML	A-4	57.0	Brown sandy SILTY CLAY

ABC 123 IMPOUNDMENT

BORING: B-3
 SAMPLE: S-1
 DEPTH: 18.0-20.0'

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CONSOLIDATION TEST

Undisturbed 3" Shelby Tube
 Inundated at 0.125 TSF

SAMPLE DIAMETER
 2.497 in.

SAMPLE HEIGHT
 0.755 in.

SPECIFIC GRAVITY
 2.70 (est.)

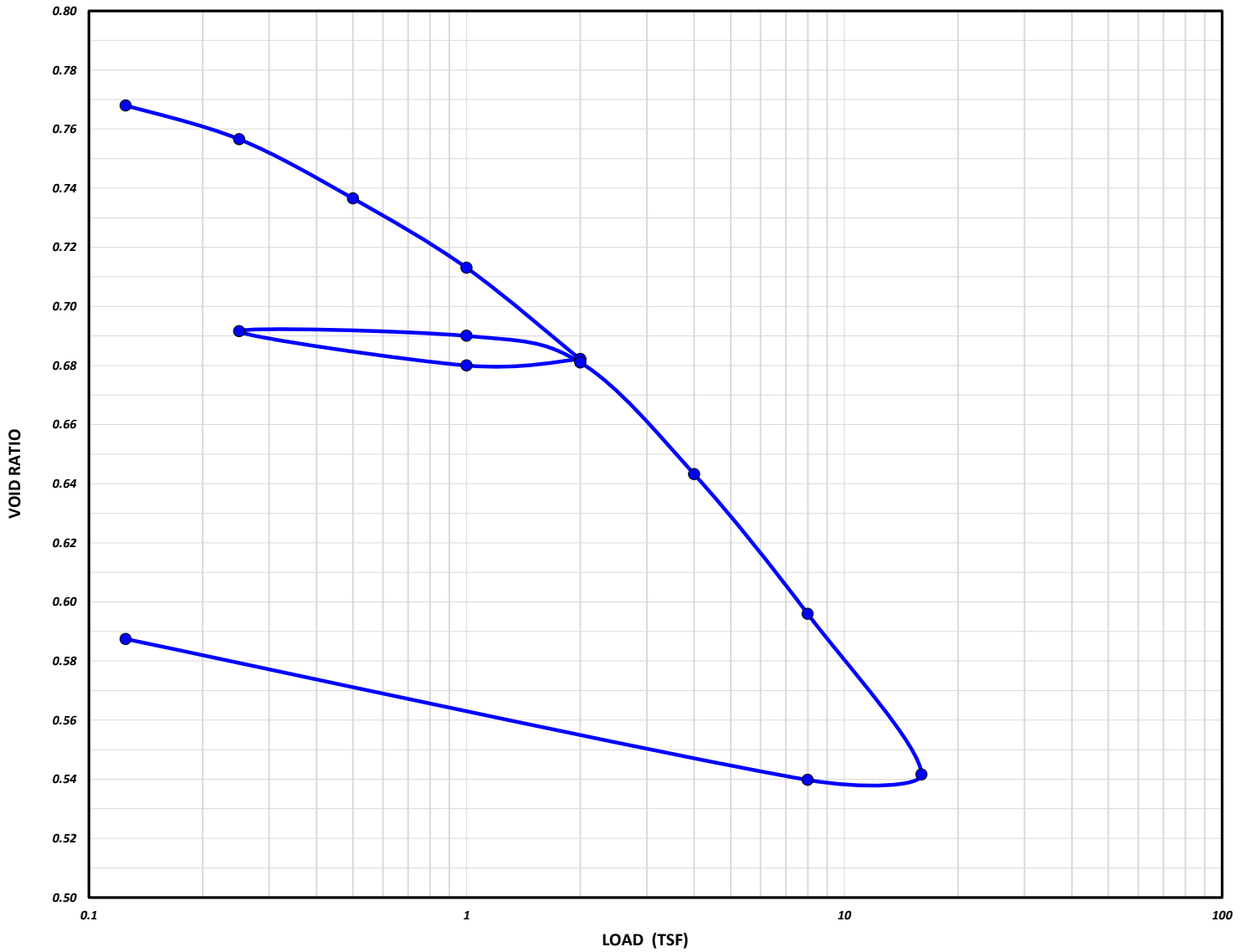
TEST METHOD: AASHTO T-216

	VOID RATIO	MOISTURE CONTENT	WET UNIT WEIGHT	DRY UNIT WEIGHT
<i>Initial</i>	0.801	29.4	121.1	93.6
<i>Final</i>	0.587	22.4	128.5	105.0

%

PCF

PCF



MC	LL	PL	PI	USCS	AASHTO	FINES	SOIL DESCRIPTION
12.8	30	22	8	CL	A-4	60.9	Brown sandy lean CLAY

ABC 123 IMPOUNDMENT

BORING: B-3
SAMPLE: S-1
DEPTH: 18.0-20.0'

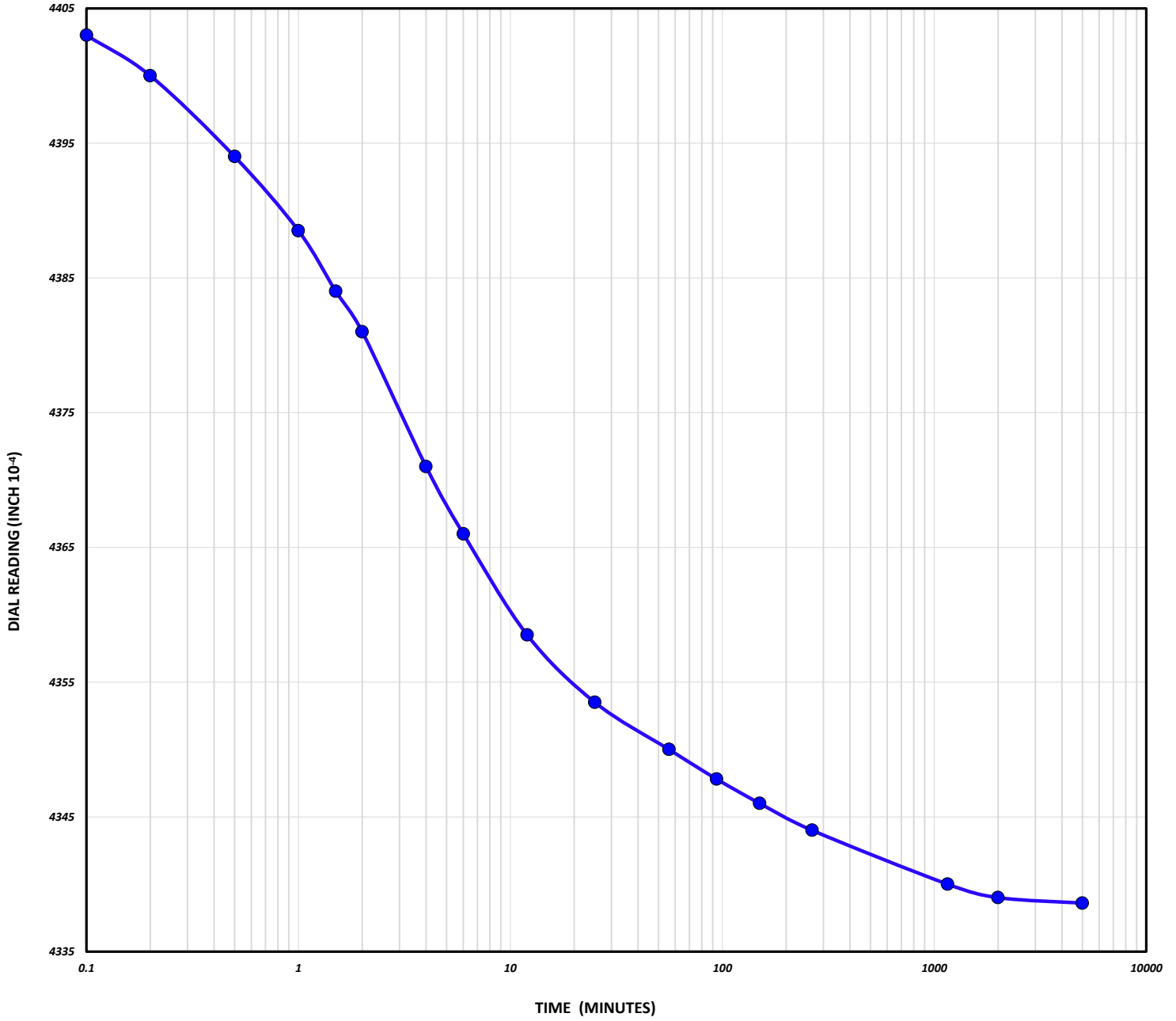
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CONSOLIDATION TIME READINGS

APPLIED LOAD (TSF)

2.0



MC	LL	PL	PI	USCS	AASHTO	FINES	SOIL DESCRIPTION
12.8	30	22	8	CL	A-4	60.9	Brown sandy lean CLAY

ABC 123 IMPOUNDMENT

BORING: B-3
SAMPLE: S-1
DEPTH: 18.0-20.0'

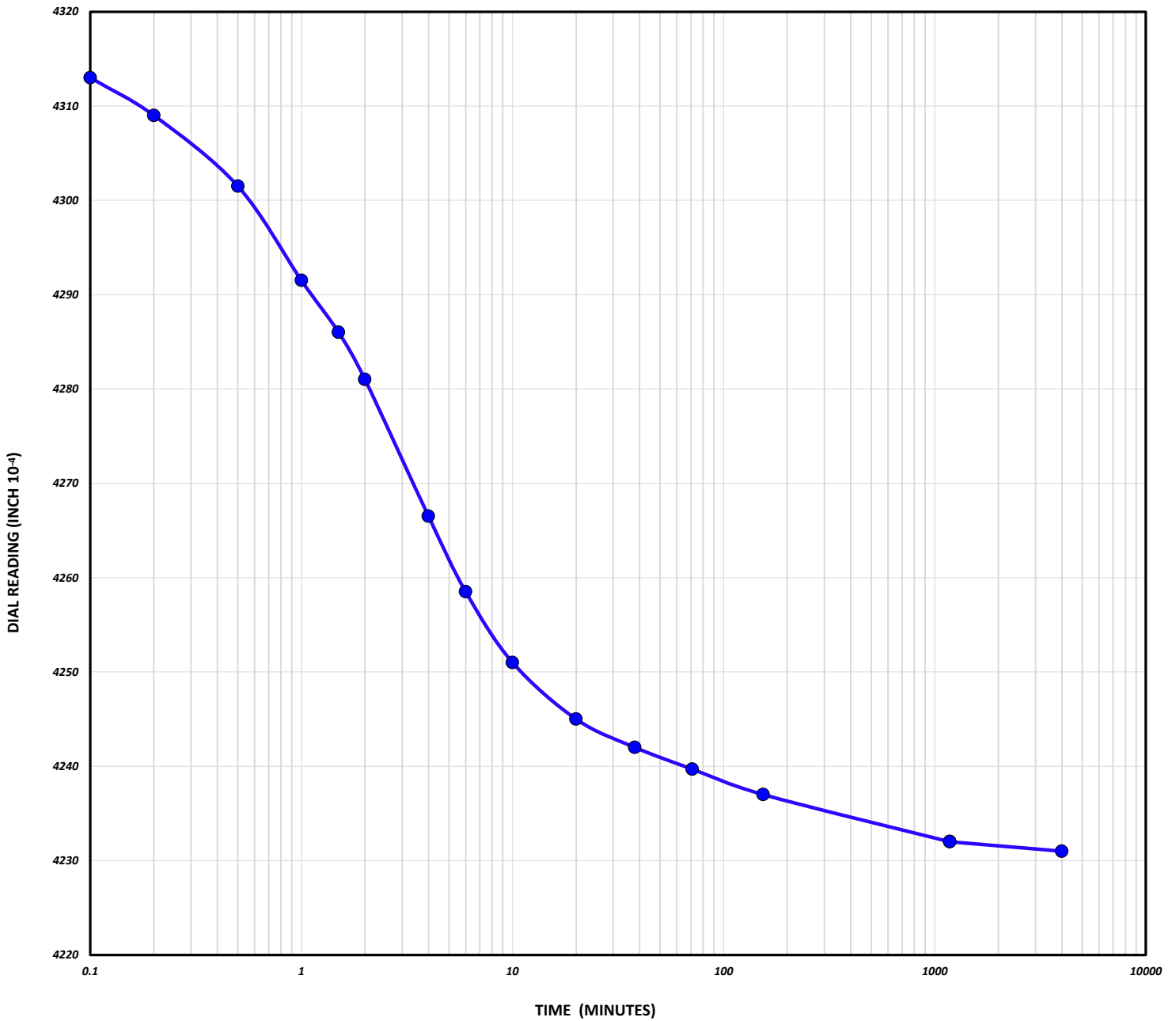
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CONSOLIDATION TIME READINGS

APPLIED LOAD (TSF)

4.0



MC	LL	PL	PI	USCS	AASHTO	FINES	SOIL DESCRIPTION
12.8	30	22	8	CL	A-4	60.9	Brown sandy lean CLAY

ABC 123 IMPOUNDMENT

BORING: B-3
SAMPLE: S-1
DEPTH: 18.0-20.0'

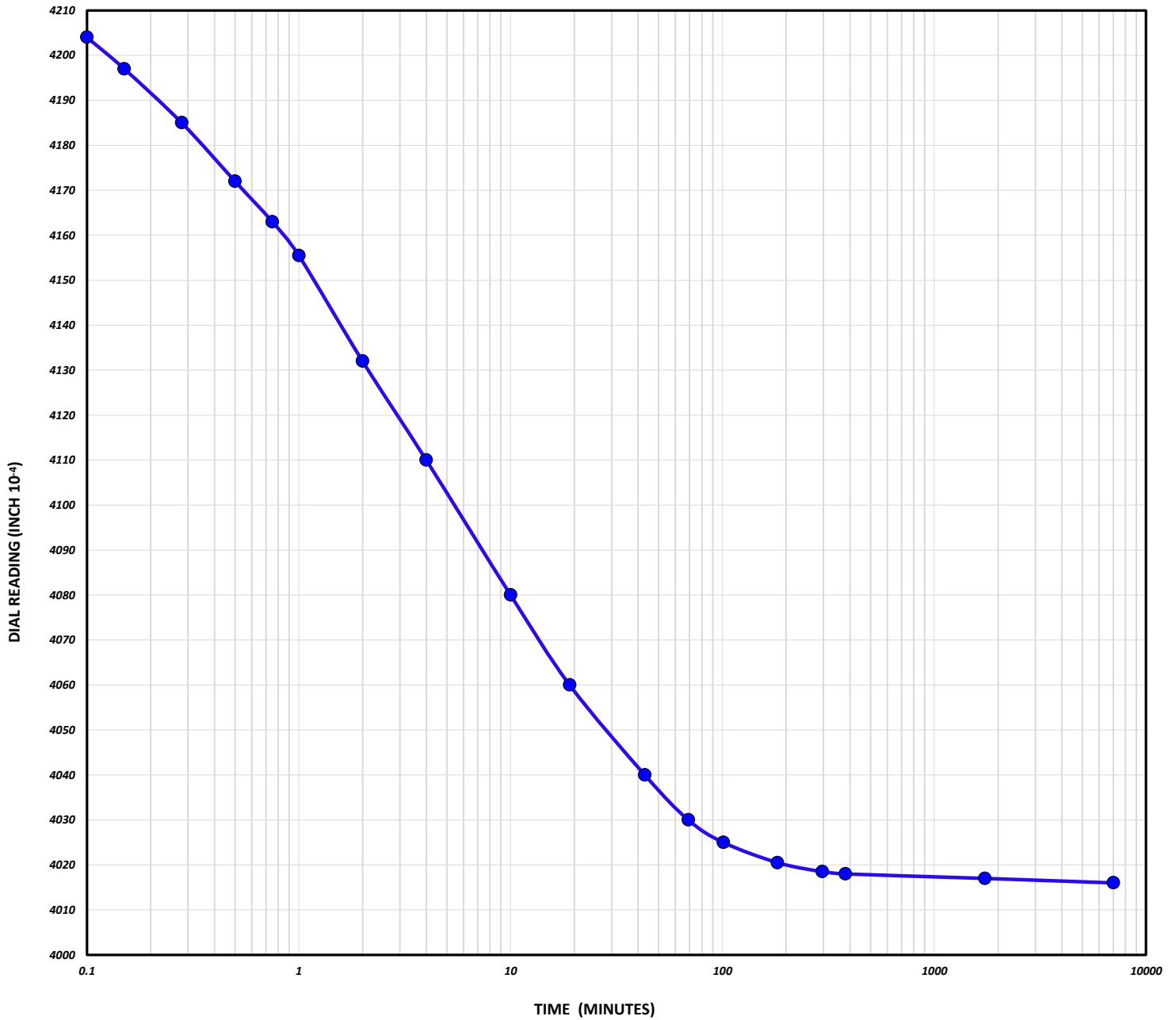
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CONSOLIDATION TIME READINGS

APPLIED LOAD (TSF)

8.0



MC	LL	PL	PI	USCS	AASHTO	FINES	SOIL DESCRIPTION
12.8	30	22	8	CL	A-4	60.9	Brown sandy lean CLAY

ABC 123 IMPOUNDMENT

BORING: B-3
SAMPLE: S-1
DEPTH: 18.0-20.0'

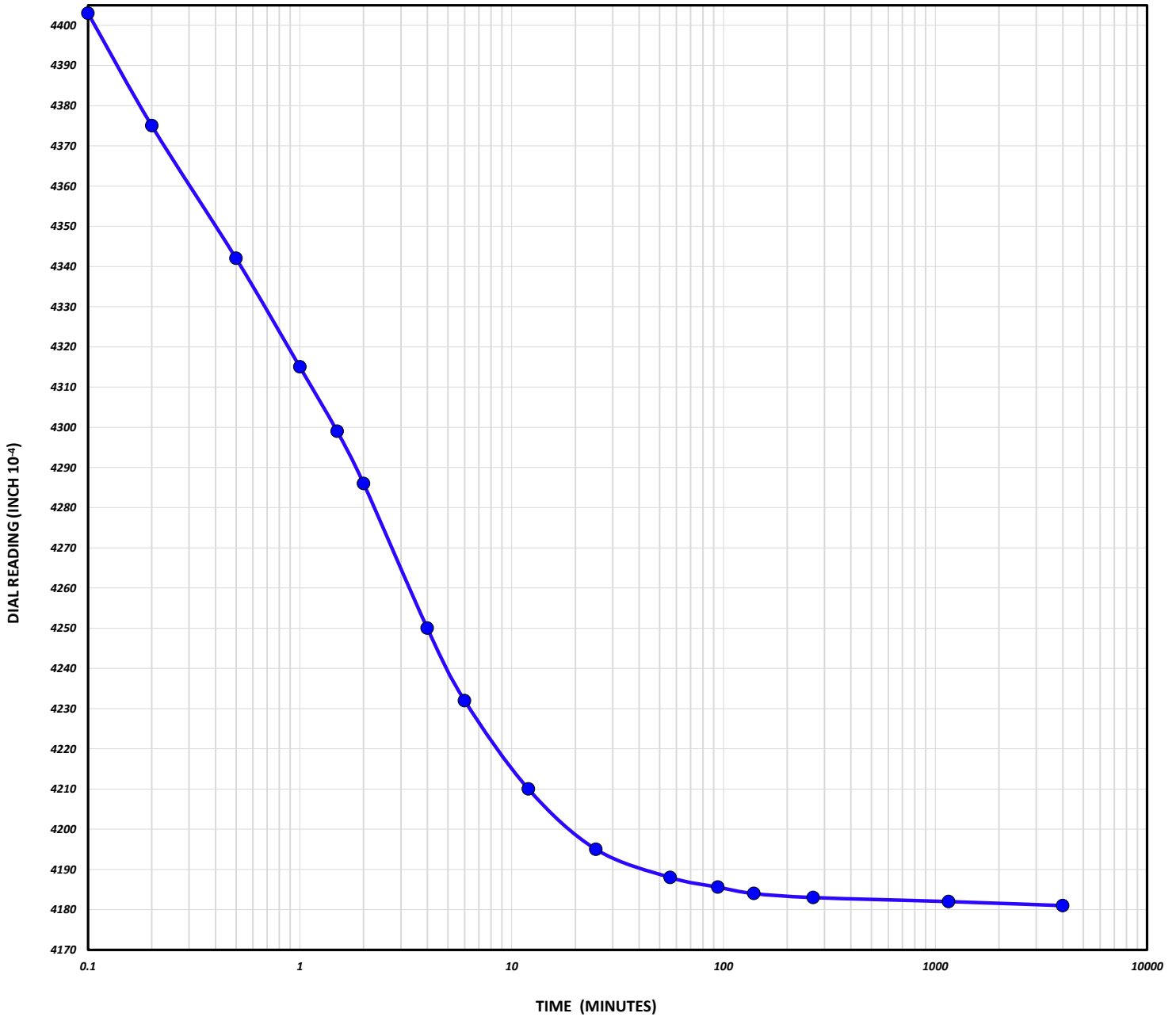
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CONSOLIDATION TIME READINGS

APPLIED LOAD (TSF)

16.0



MC	LL	PL	PI	USCS	AASHTO	FINES	SOIL DESCRIPTION
12.8	30	22	8	CL	A-4	60.9	Brown sandy lean CLAY