

COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-111	50.5	SANDY LEAN CLAY (CL)	32	21	11	3.1	44.2
●	G-111	65.5	POORLY GRADED SAND with SILT (SP-SM)	NP	NP	NP	1.4	3.1
△	G-111	70.5	SILTY SAND (SM)	--	--	--	--	--
▲	G-111	80.5	SILT (ML)	NP	NP	NP	1.0	8.4

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-111	50.5	1.98	0.080	0.021	0.002	0.0	41.7	58.3
●	G-111	65.5	0.85	0.255	0.173	0.082	0.0	91.3	8.7
△	G-111	70.5	9.52	0.267	0.119	--	1.3	83.9	14.8
▲	G-111	80.5	1.98	0.027	0.009	0.003	0.0	6.8	93.2

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: JF 9/6/2011
Checked/Date: LT 9/10/2011

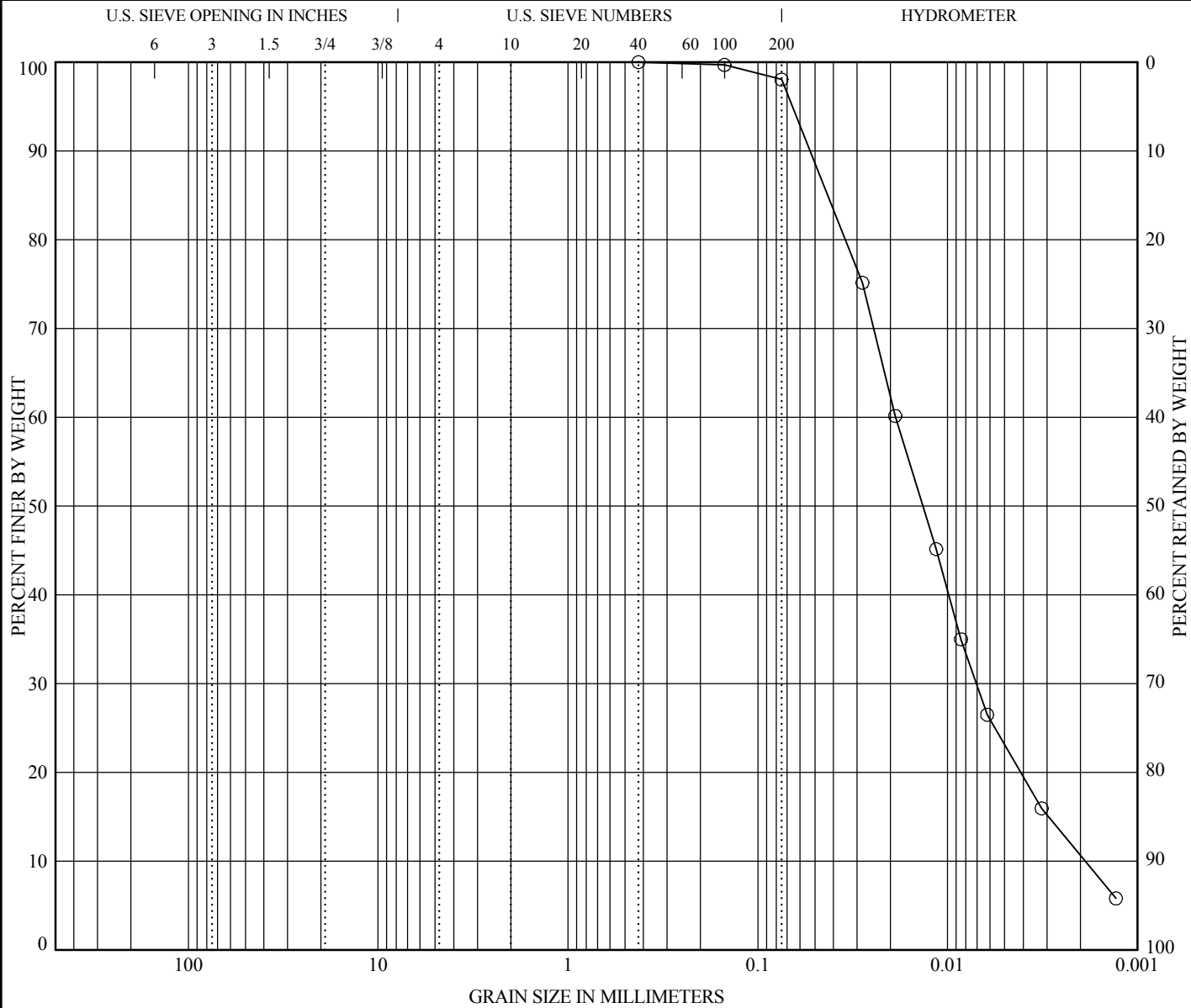
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Project No.: 4953-10-1561
Figure: F-6.23

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-111	85.5	SILTSTONE	56	41	15	1.4	10.0

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-111	85.5	0.43	0.019	0.007	0.002	0.0	2.0	98.0

Laboratory Test Method: ASTM D 422

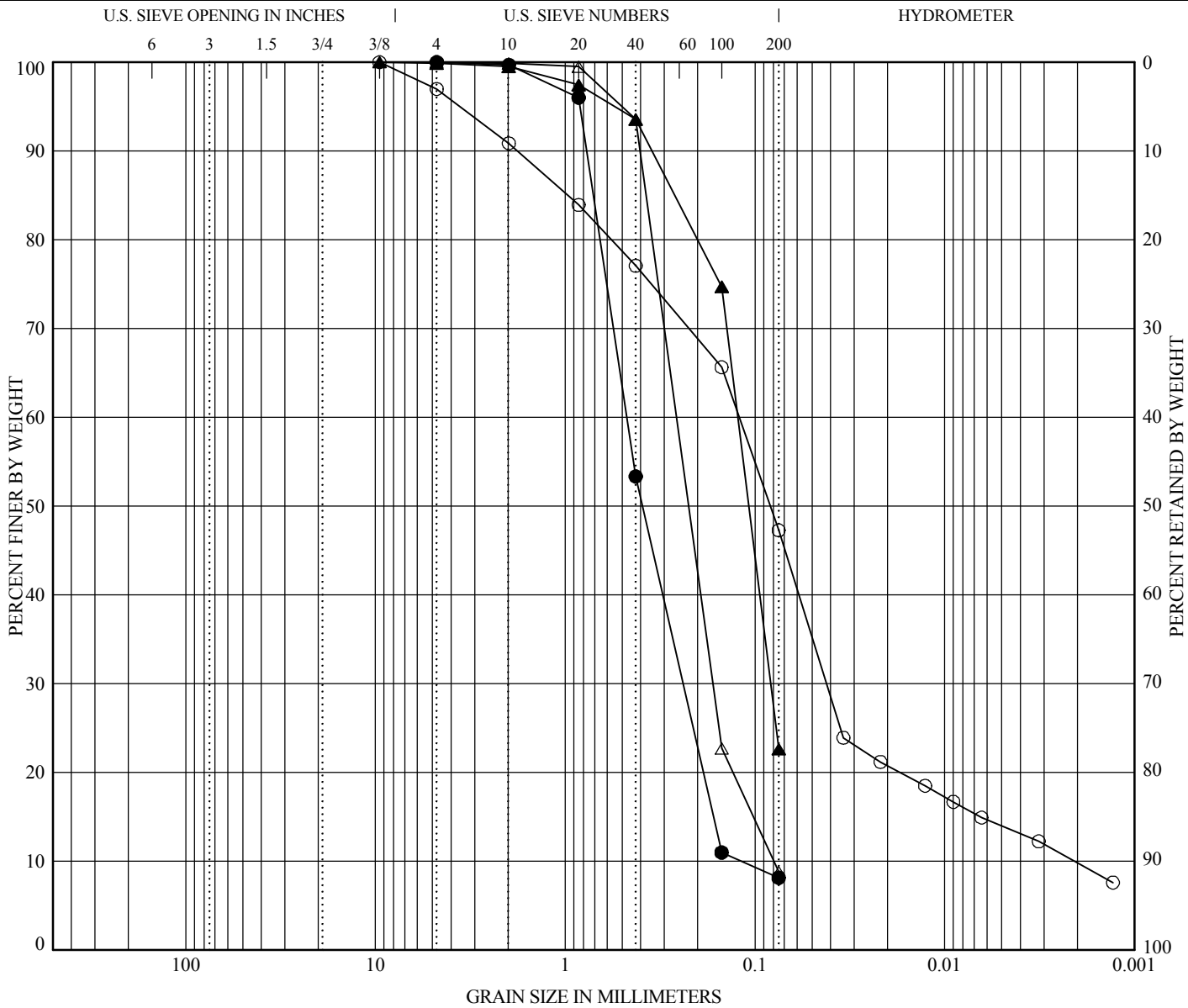
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.24



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-112	40.5	SILTY SAND (SM)	37	25	12	7.0	58.4
●	G-112	65.5	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.0	4.0
△	G-112	75.5	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.3	3.3
▲	G-112	85.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-112	40.5	9.52	0.121	0.042	0.002	3.0	49.7	47.3
●	G-112	65.5	4.75	0.474	0.239	0.118	0.0	91.9	8.1
△	G-112	75.5	4.75	0.260	0.167	0.080	0.0	91.2	8.8
▲	G-112	85.5	9.52	0.123	0.083	--	0.1	77.2	22.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

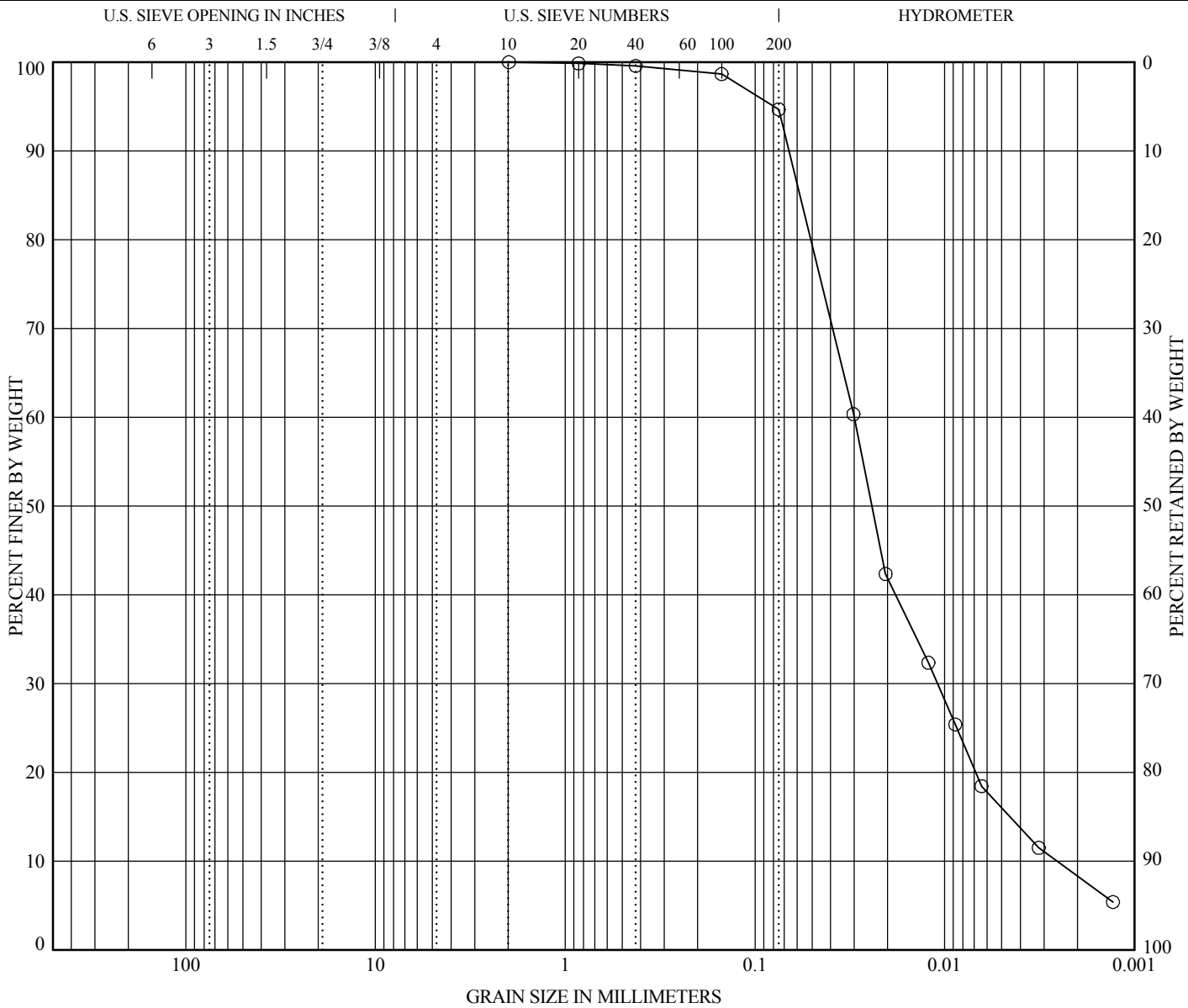
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Figure: F-6.25



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-112	110.5	SILTSTONE	59	40	19	1.5	11.7

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-112	110.5	1.98	0.030	0.011	0.003	0.0	5.3	94.7

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

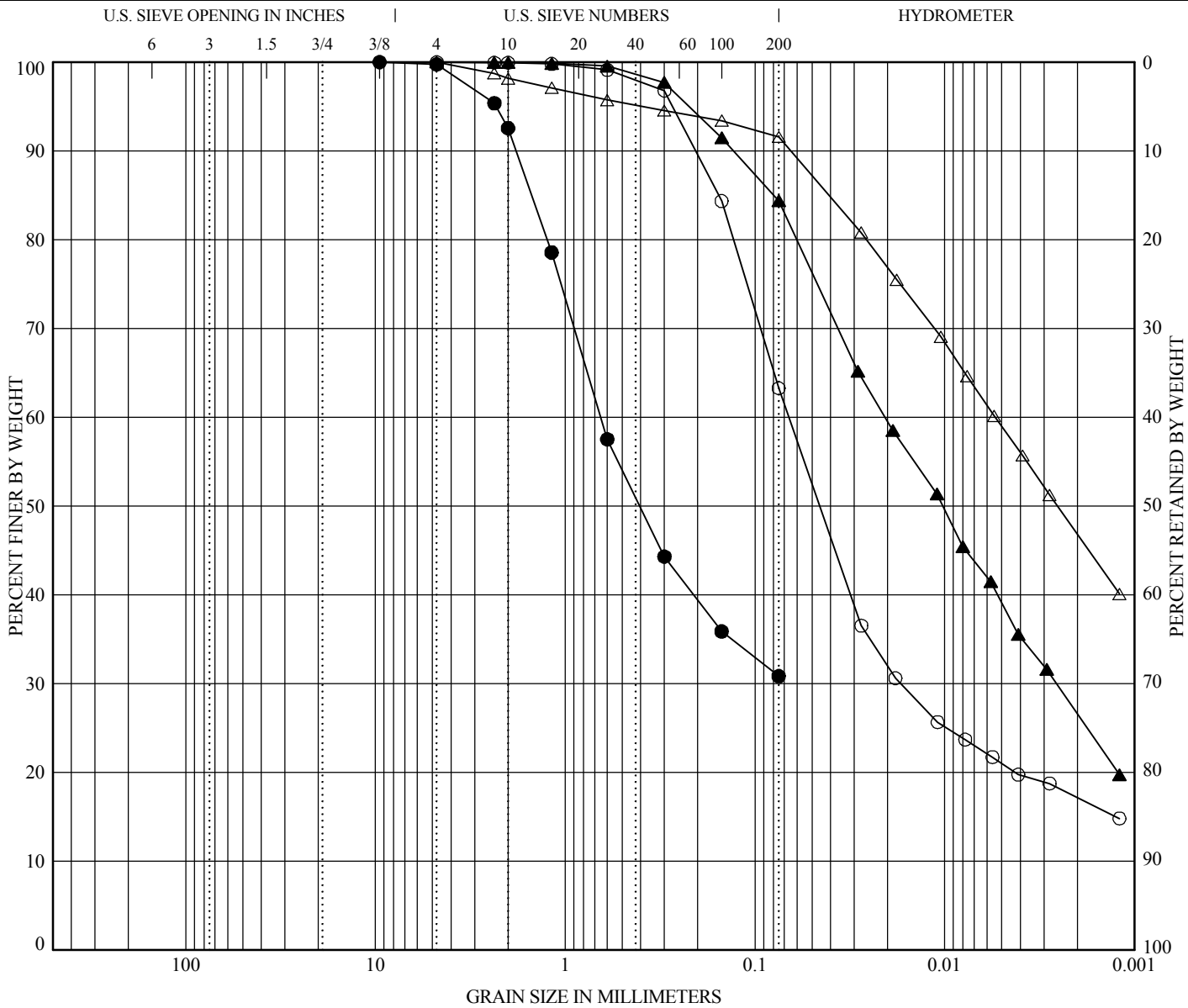
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Figure: F-6.26



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-113	6.5	SANDY LEAN CLAY (CL)	46	16	30	--	--
●	G-113	20.5	SILTY SAND (SM)	--	--	--	--	--
△	G-113	40.5	FAT CLAY (CH)	69	20	49	--	--
▲	G-113	50.5	FAT CLAY with SAND (CH)	52	18	34	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-113	6.5	4.75	0.066	0.017	--	0.0	36.7	63.3
●	G-113	20.5	9.50	0.650	--	--	0.3	68.9	30.8
△	G-113	40.5	4.75	0.005	--	--	0.0	8.4	91.6
▲	G-113	50.5	4.75	0.021	0.003	--	0.0	15.6	84.4

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: YN 9/19/2011
Checked/Date: LT 7/26/2011

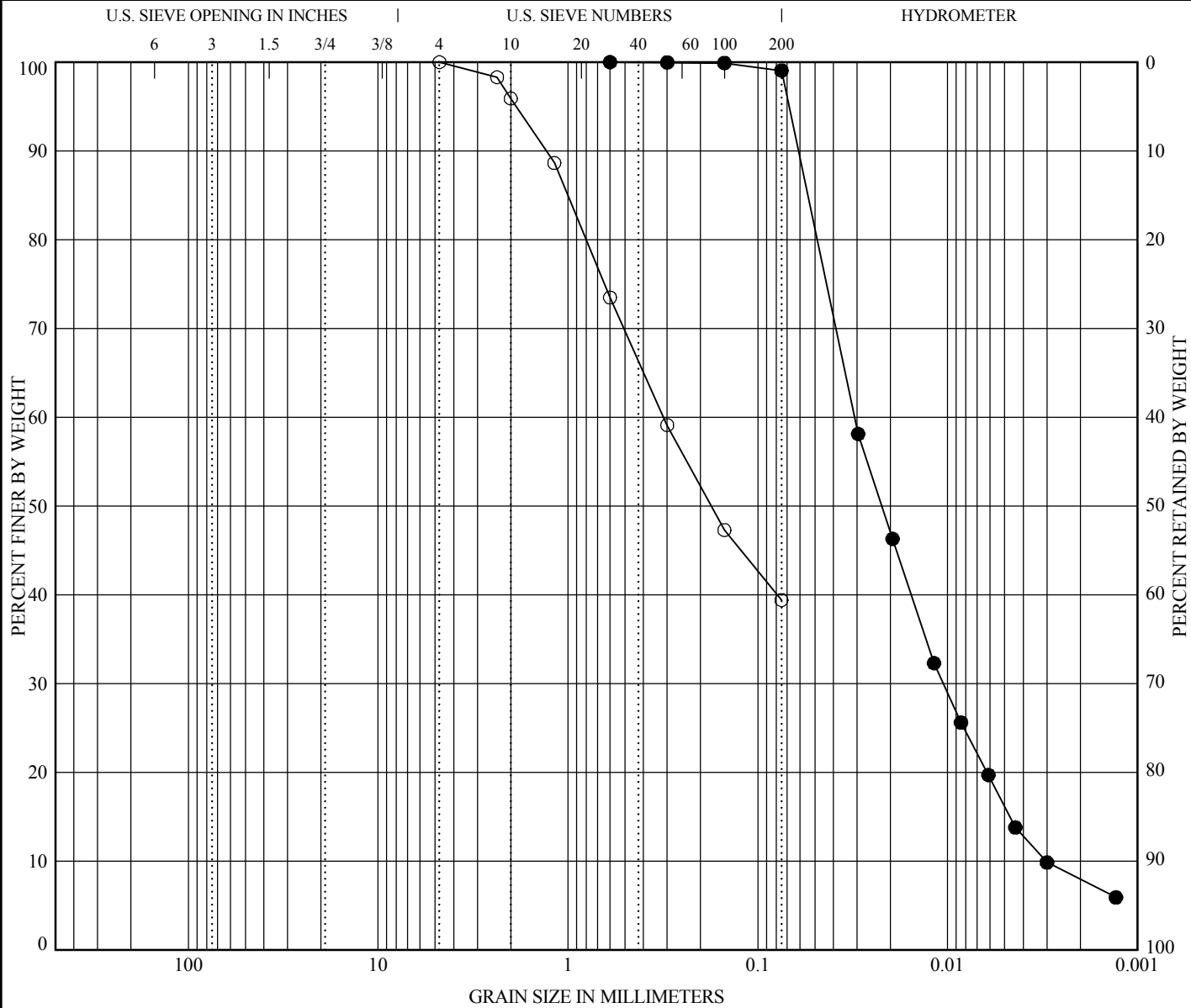
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Figure: F-6.27

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-113	80.5	SILTY SAND (SM)	--	--	--	--	--
●	G-113	90.5	CLAYEY SILTSTONE	51	28	23	1.2	10.1

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-113	80.5	4.75	0.313	--	--	0.0	60.6	39.4
●	G-113	90.5	0.60	0.031	0.011	0.003	0.0	0.9	99.1

Laboratory Test Method: ASTM D 422

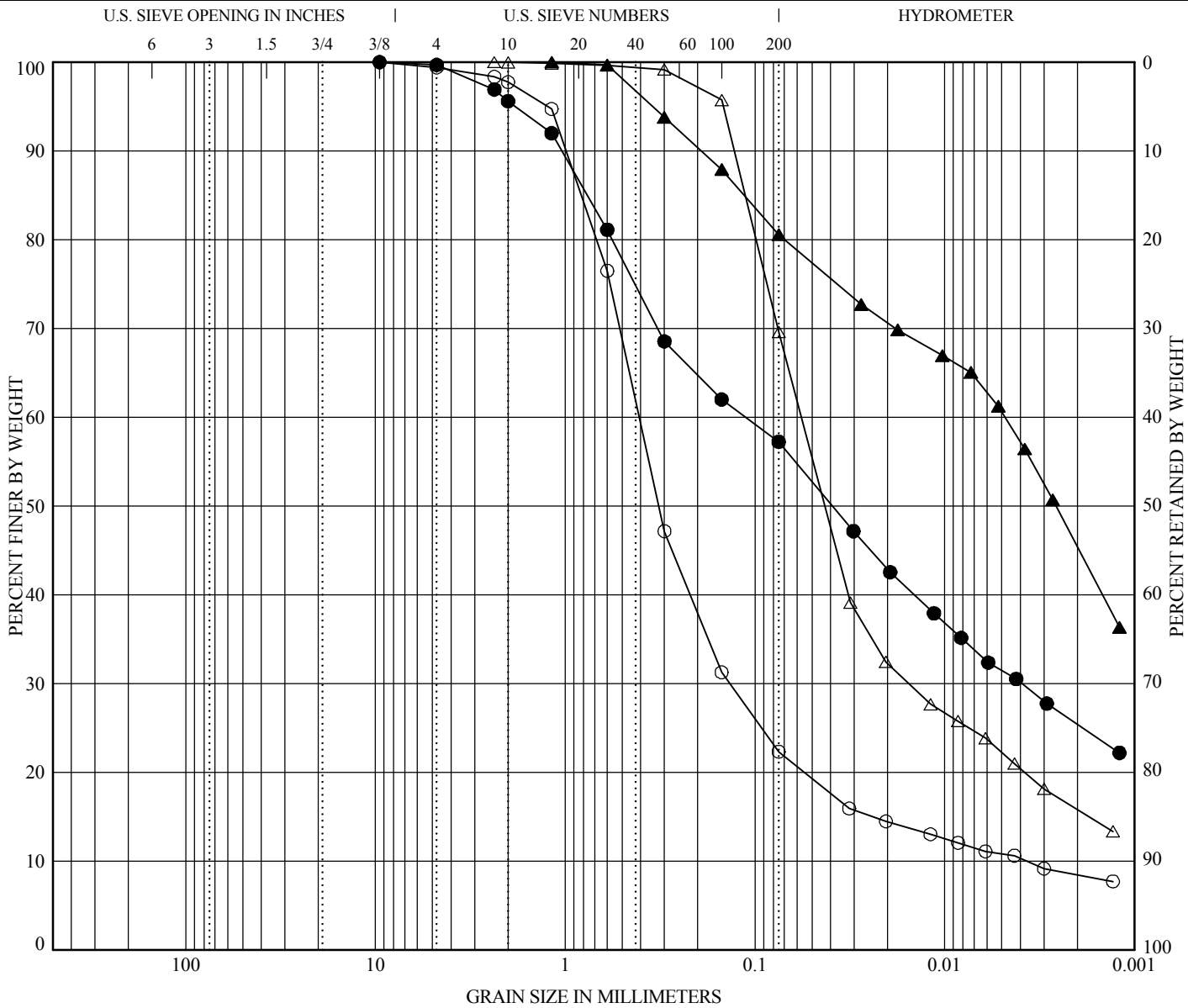
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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PARTICLE SIZE DISTRIBUTION
 Project No.: 4953-10-1561
 Figure: F-6.28



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-114	39.5	CLAYEY SAND (SC)	27	19	8	12.3	110.2
●	G-114	48.0	SANDY FAT CLAY (CH)	52	16	36	--	--
△	G-114	51.5	SANDY LEAN CLAY (CL)	32	20	12	--	--
▲	G-114	57.5	FAT CLAY with SAND (CH)	74	18	56	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-114	39.5	9.50	0.406	0.136	0.004	0.6	77.1	22.3
●	G-114	48.0	9.50	0.112	0.004	--	0.3	42.5	57.2
△	G-114	51.5	2.36	0.057	0.015	--	0.0	30.4	69.6
▲	G-114	57.5	1.18	0.005	--	--	0.0	19.4	80.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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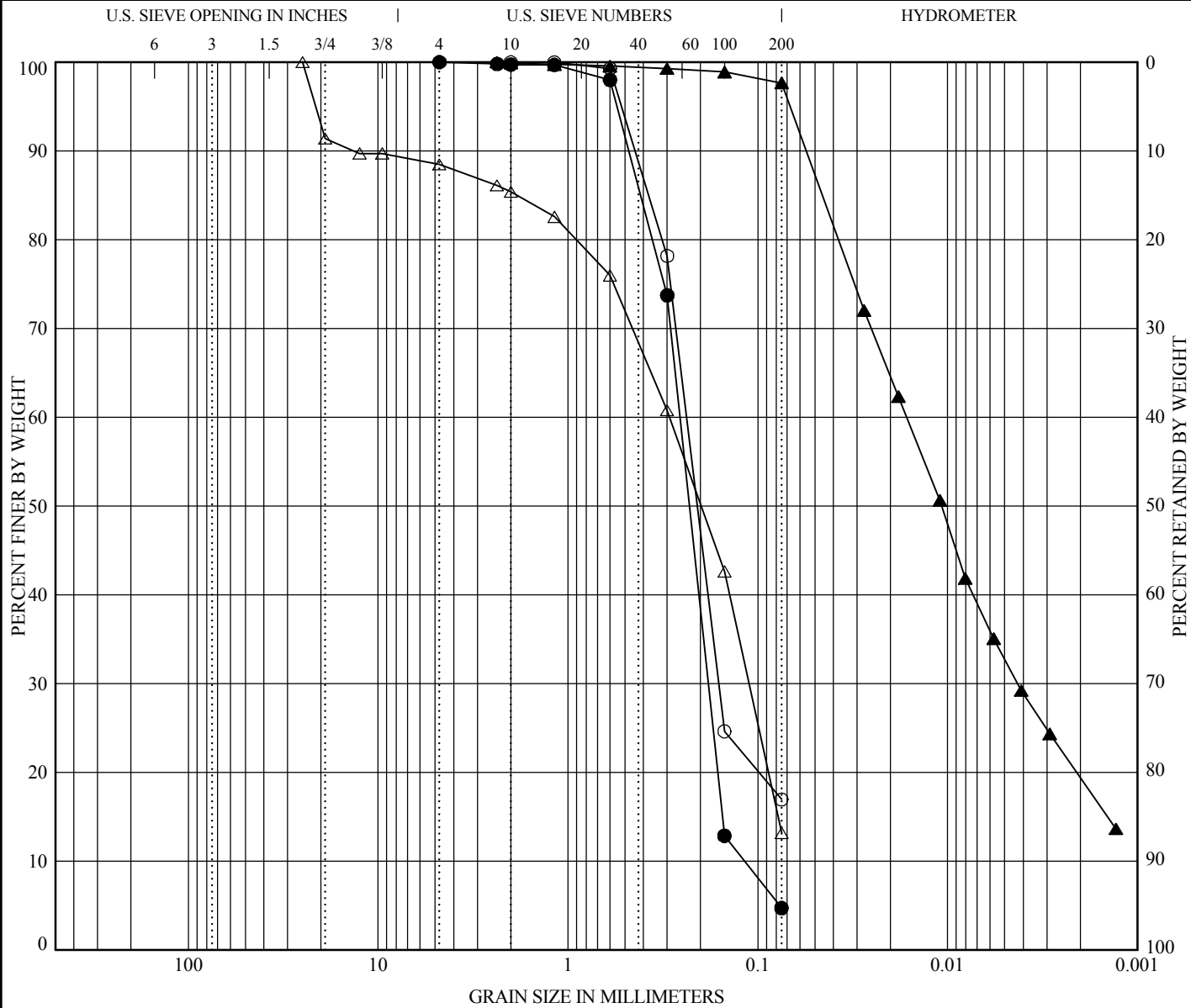
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Figure: F-6.29

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-114	60.5	SILTY SAND (SM)	--	--	--	--	--
●	G-114	69.5	POORLY GRADED SAND (SP)	--	--	--	1.1	2.2
△	G-114	80.5	SILTY SAND (SM)	--	--	--	--	--
▲	G-114	92.5	CLAYEY SILTSTONE	46	24	22	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-114	60.5	2.00	0.237	0.161	--	0.0	83.1	17.0
●	G-114	69.5	4.75	0.257	0.182	0.118	0.0	95.3	4.7
△	G-114	80.5	25.00	0.291	0.111	--	11.5	75.3	13.2
▲	G-114	92.5	2.36	0.016	0.004	--	0.0	2.3	97.7

Laboratory Test Method: ASTM D 422

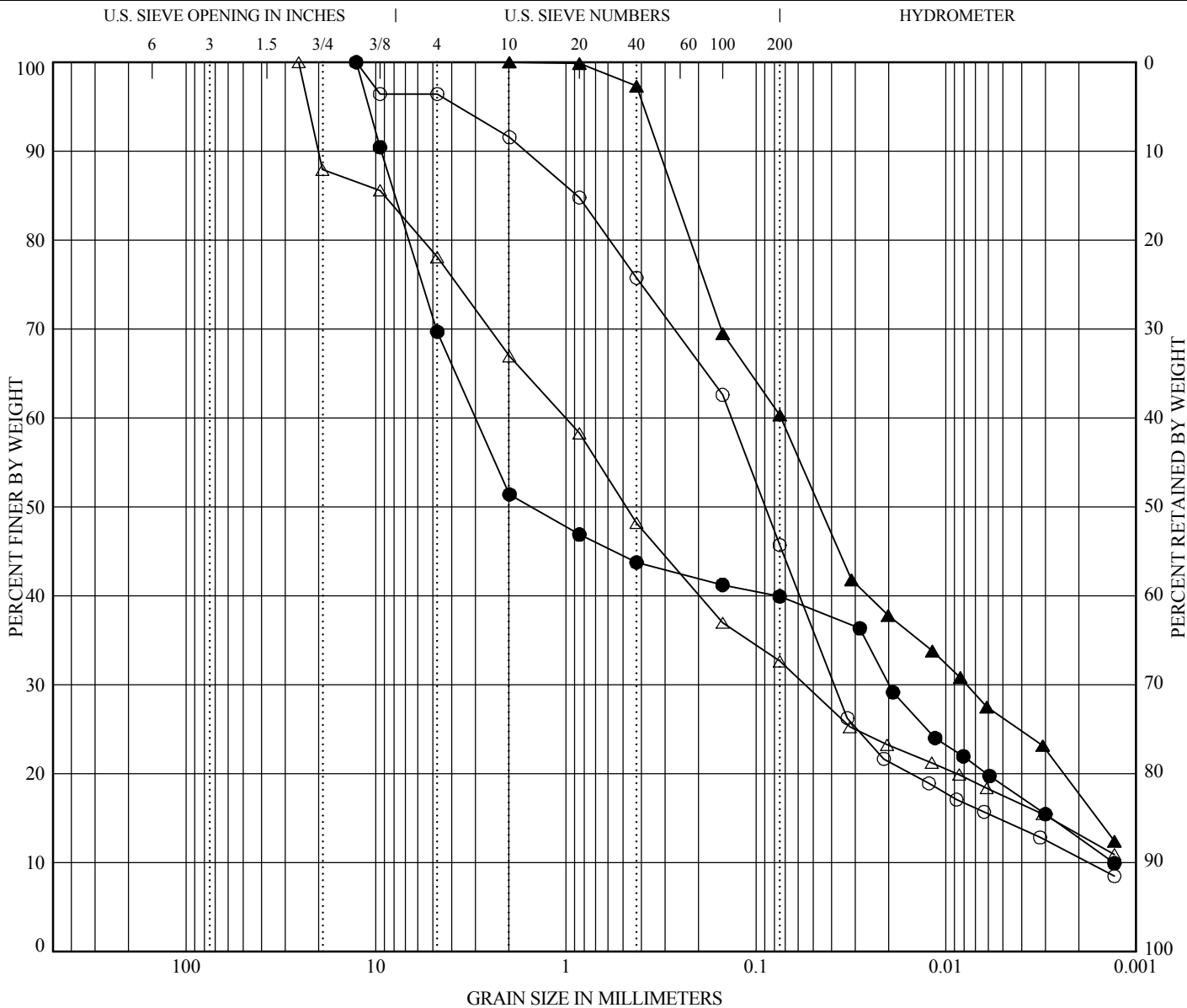
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.30



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-116	10.5	SILTY SAND (SM)	--	--	--	6.2	75.6
●	G-116	40.5	CLAYEY GRAVEL with SAND (GC)	50	24	26	0.1	2270.6
△	G-116	45.5	CLAYEY SAND with GRAVEL (SC)	42	21	21	--	--
▲	G-116	50.5	SANDY SILT (ML)	NP	NP	NP	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-116	10.5	12.70	0.135	0.039	0.002	3.6	50.7	45.7
●	G-116	40.5	12.70	2.988	0.020	0.001	30.3	29.8	39.9
△	G-116	45.5	25.40	1.005	0.055	--	21.9	45.5	32.6
▲	G-116	50.5	1.98	0.074	0.008	--	0.0	39.7	60.3

Laboratory Test Method: ASTM D 422

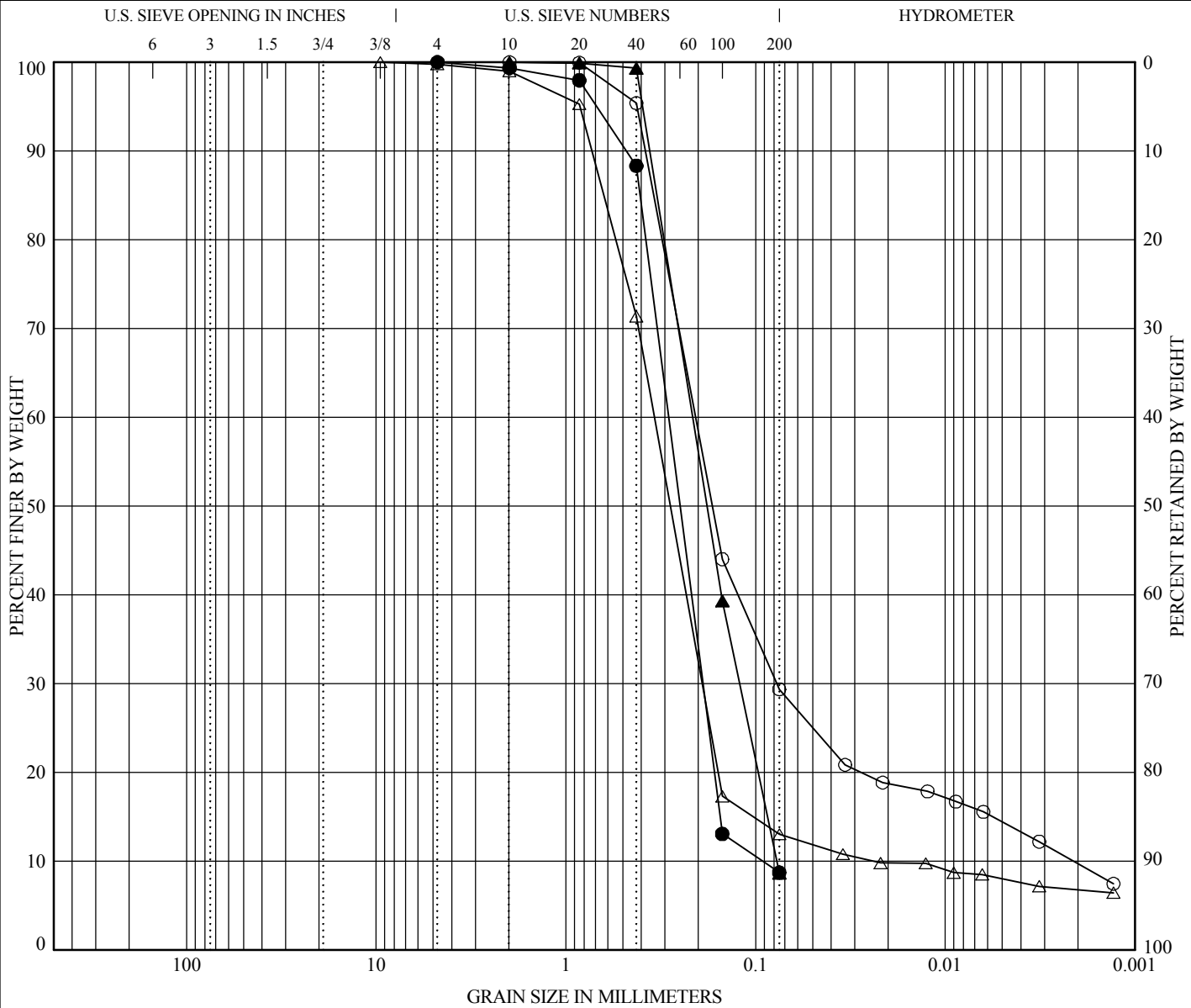
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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Figure: F-6.31



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-116	55.5	SILTY SAND (SM)	--	--	--	13.7	98.4
●	G-116	60.5	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.4	3.1
△	G-116	65.5	SILTY SAND (SM)	--	--	--	4.5	14.2
▲	G-116	80.5	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	0.9	2.8

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-116	55.5	1.98	0.207	0.077	0.002	0.0	70.6	29.4
●	G-116	60.5	4.75	0.287	0.190	0.092	0.0	91.3	8.7
△	G-116	65.5	9.52	0.341	0.192	0.024	0.2	86.8	13.0
▲	G-116	80.5	1.98	0.215	0.122	0.077	0.0	91.4	8.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

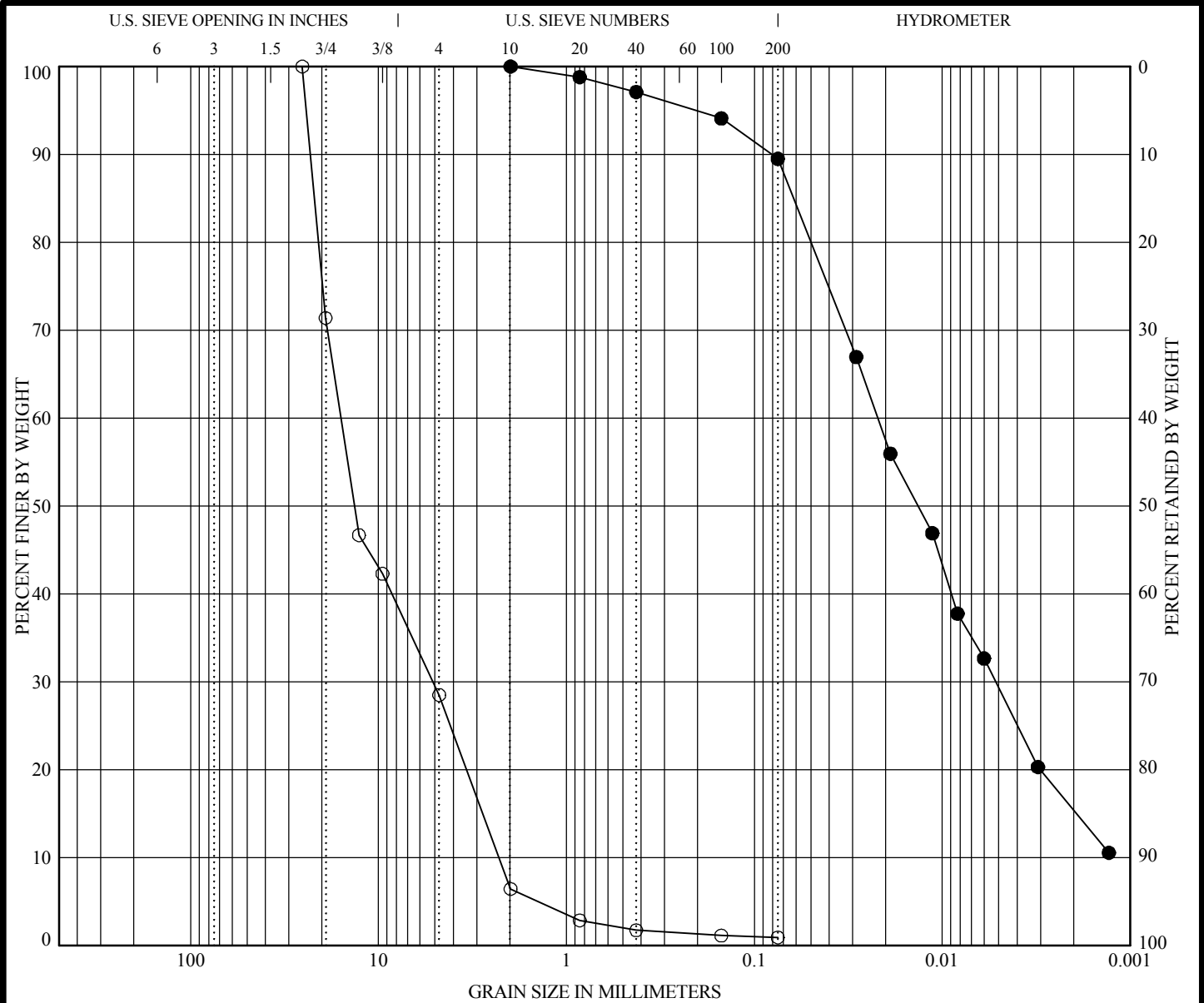
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Figure: F-6.32

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-116	95.5	POORLY GRADED GRAVEL with SAND (GP)	--	--	--	0.7	6.9
●	G-116	105.5	SILTSTONE	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-116	95.5	25.40	15.824	5.124	2.281	71.5	27.6	0.9
●	G-116	105.5	1.98	0.022	0.005	--	0.0	10.5	89.5

Laboratory Test Method: ASTM D 422

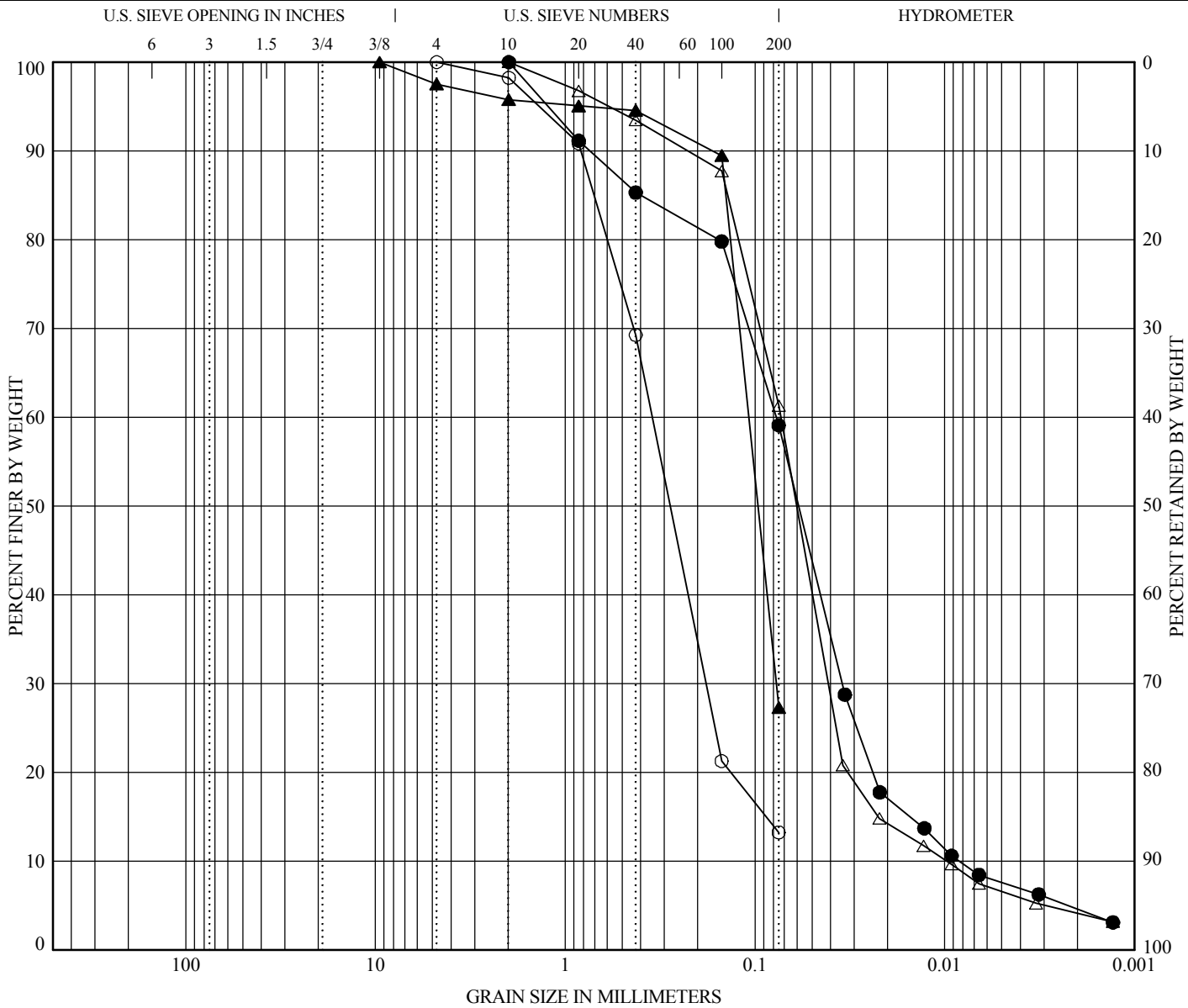
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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PARTICLE SIZE DISTRIBUTION
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 Figure: F-6.33



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-118 31.5	SILTY SAND (SM)	--	--	--	--	--
●	G-118 37.5	SANDY SILT (ML)	NP	NP	NP	1.9	9.2
△	G-118 40.5	SANDY SILT (ML)	NP	NP	NP	2.4	7.5
▲	G-118 49.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-118 31.5	4.75	0.348	0.181	--	0.0	86.8	13.2
●	G-118 37.5	1.98	0.077	0.035	0.008	0.0	40.9	59.1
△	G-118 40.5	1.98	0.073	0.041	0.010	0.0	38.7	61.3
▲	G-118 49.5	9.52	0.108	0.077	--	2.5	70.2	27.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: JF 6/20/2011
Checked/Date: AH 6/29/2011

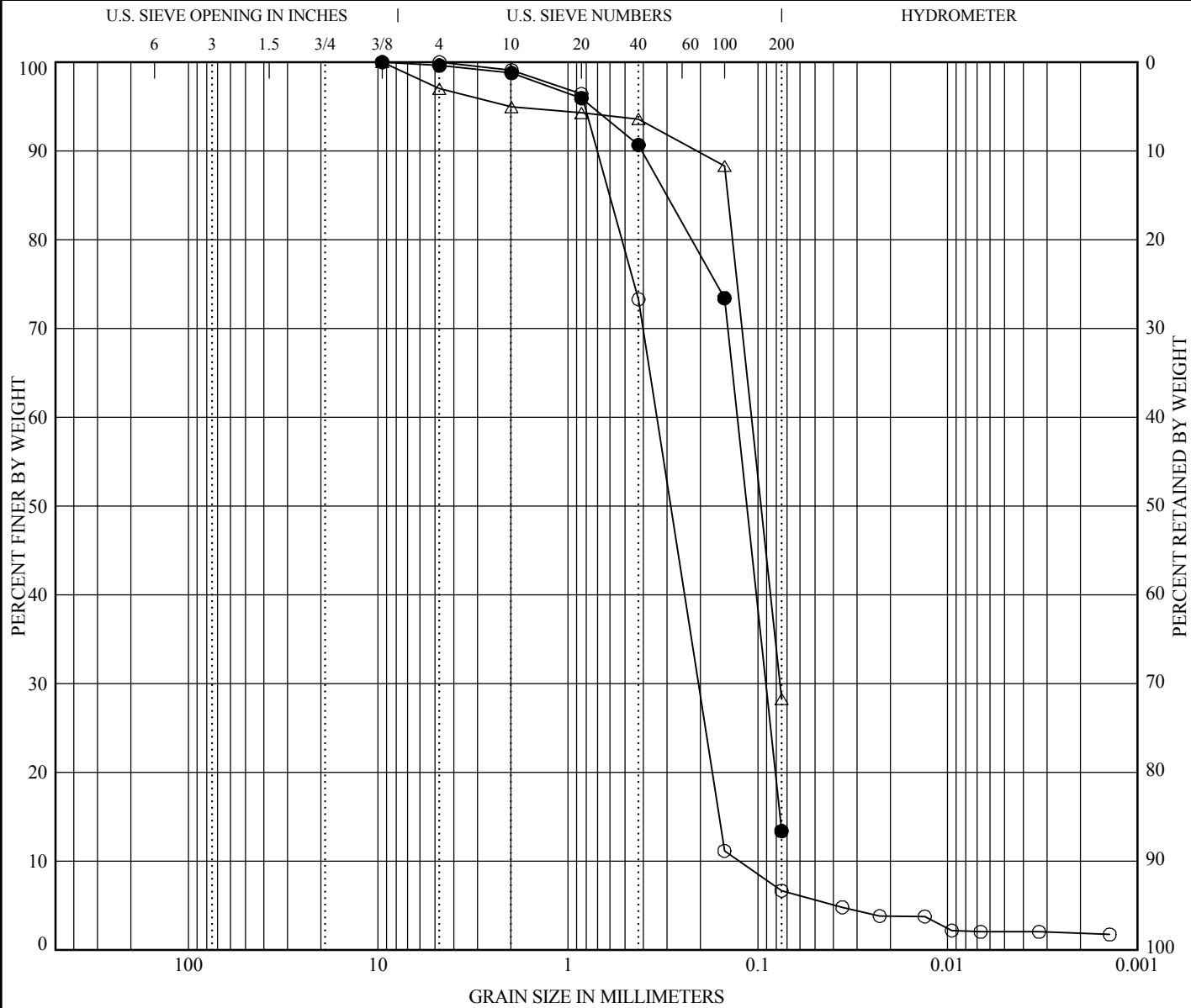
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Figure: F-6.34

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-118	52.5	POORLY GRADED SAND with SILT (SP-SM)	NP	NP	NP	1.0	2.7
●	G-118	61.5	SILTY SAND (SM)	--	--	--	--	--
△	G-118	73.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-118	52.5	4.75	0.340	0.206	0.125	0.0	93.3	6.7
●	G-118	61.5	9.52	0.128	0.091	--	0.4	86.2	13.4
△	G-118	73.5	9.52	0.108	0.077	--	3.0	68.7	28.3

Laboratory Test Method: ASTM D 422

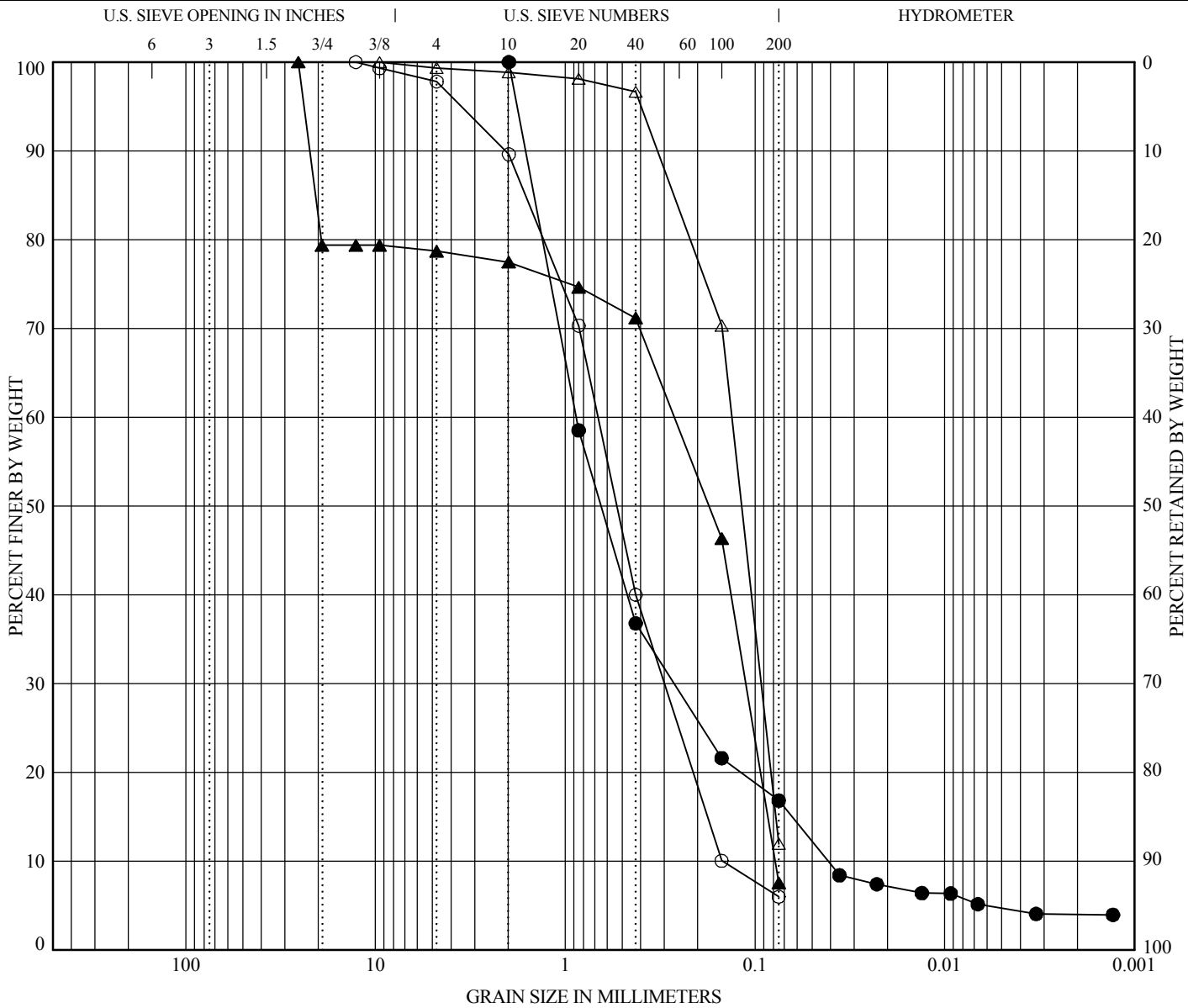
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.35



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-119	25.5	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	0.9	4.5
●	G-119	35.5	SILTY SAND (SM)	NP	NP	NP	2.0	21.2
△	G-119	50.5	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	0.9	1.8
▲	G-119	60.5	POORLY GRADED SAND with SILT and GRAVEL (SP-SM)	--	--	--	0.6	3.4

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-119	25.5	12.70	0.671	0.300	0.149	2.2	91.8	6.0
●	G-119	35.5	1.98	0.876	0.267	0.041	0.0	83.2	16.8
△	G-119	50.5	9.52	0.133	0.093	--	0.6	87.4	12.0
▲	G-119	60.5	25.40	0.266	0.112	0.078	21.3	71.2	7.5

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: JF 9/9/2011
Checked/Date: LT 9/13/2011

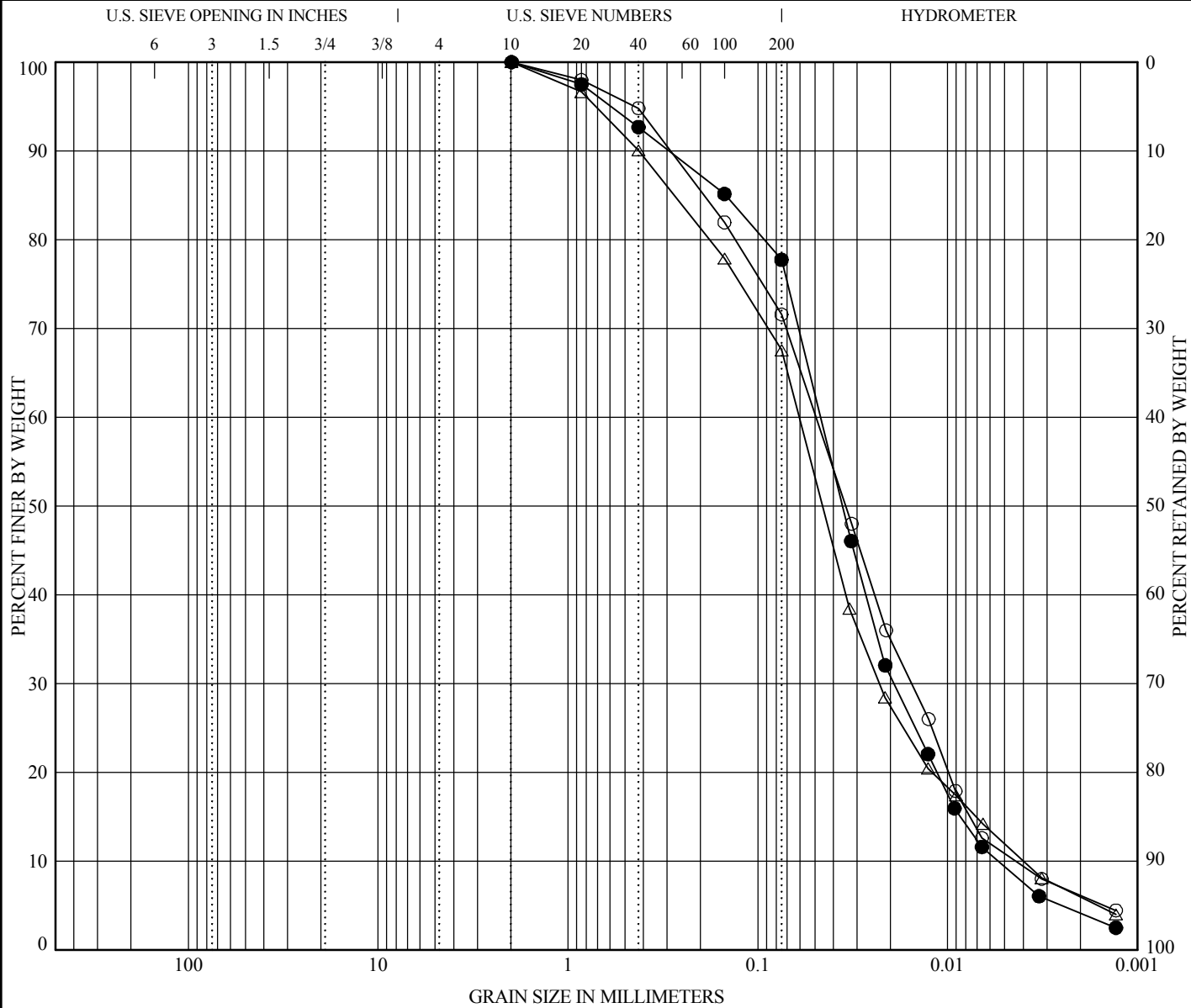
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Figure: F-6.36

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-119	75.5	SILTSTONE	NP	NP	NP	1.1	11.3
●	G-119	95.5	SILTSTONE	NP	NP	NP	1.5	8.6
△	G-119	105.5	SANDY SILTSTONE	NP	NP	NP	2.2	15.2

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-119	75.5	1.98	0.049	0.015	0.004	0.0	28.4	71.6
●	G-119	95.5	1.98	0.047	0.019	0.005	0.0	22.3	77.7
△	G-119	105.5	1.98	0.060	0.023	0.004	0.0	32.4	67.6

Laboratory Test Method: ASTM D 422

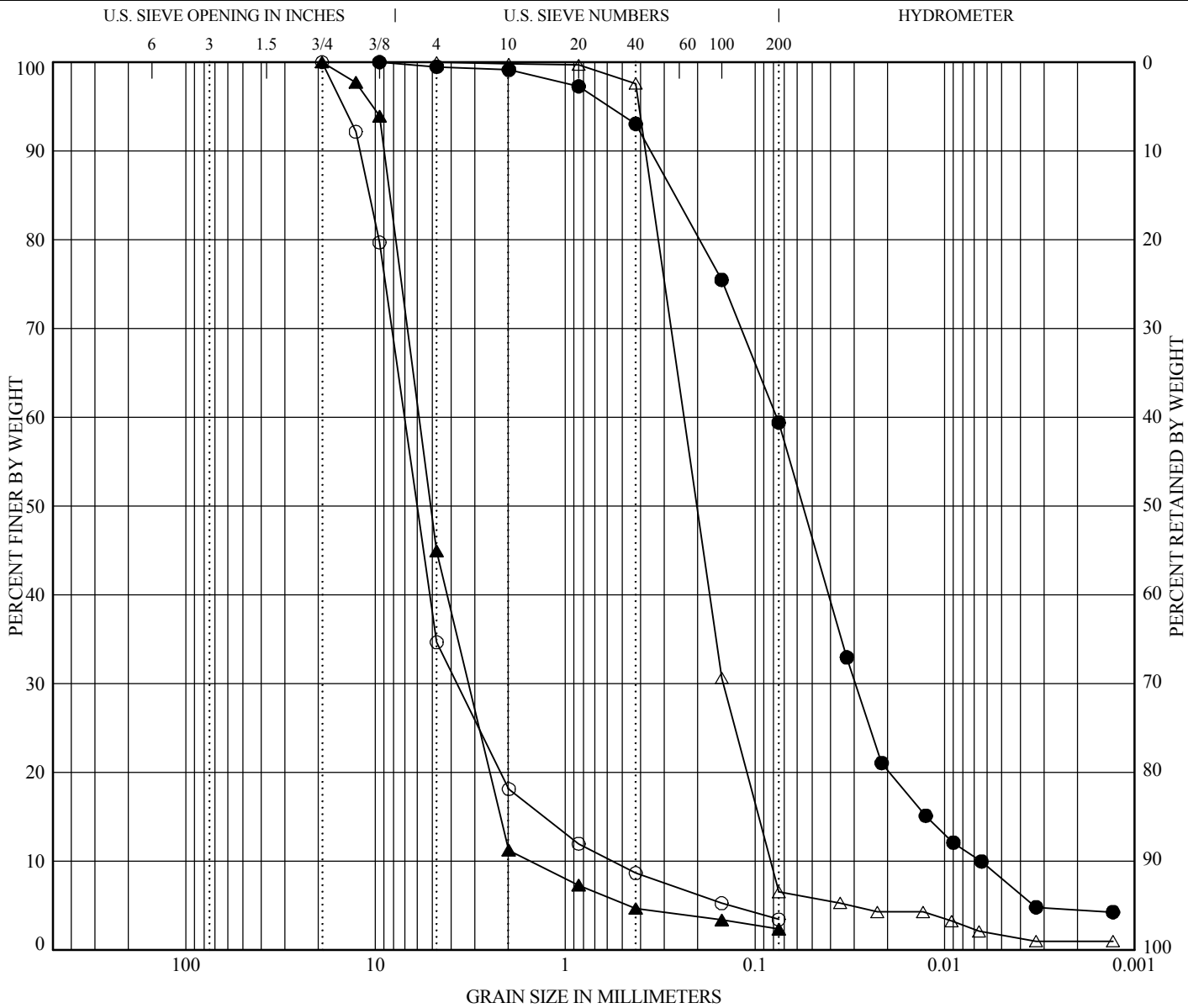
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.37



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-121	10.5	POORLY GRADED GRAVEL with SAND (GP)	--	--	--	3.5	12.5
●	G-121	20.5	SANDY SILT (ML)	NP	NP	NP	1.8	11.9
△	G-121	35.5	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.1	2.9
▲	G-121	65.5	POORLY GRADED GRAVEL with SAND (GP)	--	--	--	1.2	3.9

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-121	10.5	19.10	7.025	3.714	0.564	65.4	31.2	3.4
●	G-121	20.5	9.52	0.077	0.030	0.006	0.5	40.1	59.4
△	G-121	35.5	4.75	0.237	0.147	0.083	0.0	93.5	6.5
▲	G-121	65.5	19.10	5.883	3.224	1.521	55.1	42.6	2.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: JF 9/8/2011
Checked/Date: LT 9/15/2011

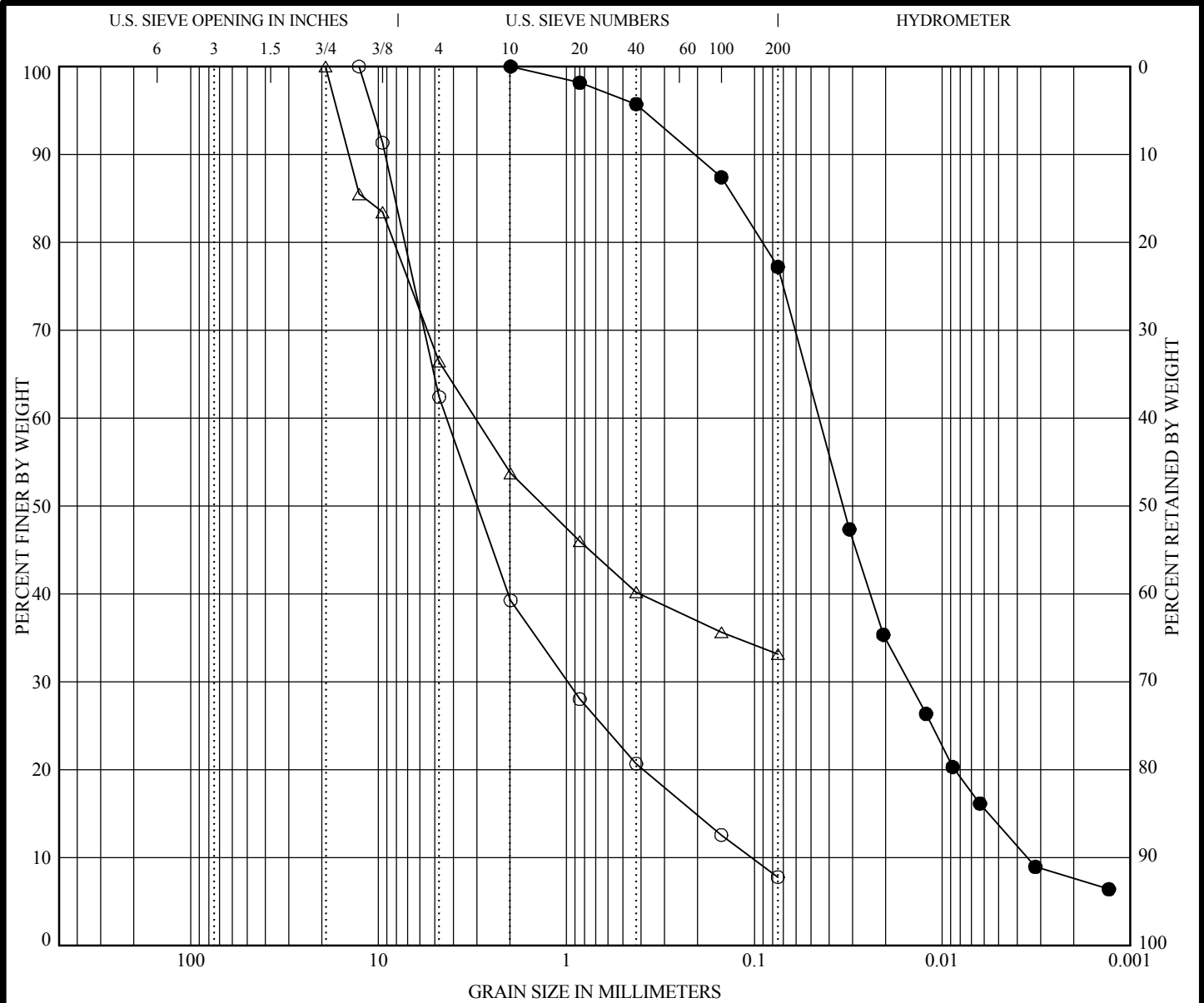
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Figure: F-6.38

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-121	70.5	WELL GRADED SAND with SILT and GRAVEL (SW-SM)	--	--	--	2.2	42.0
●	G-121	80.5	SILT with SAND (ML)	NP	NP	NP	1.4	12.8
△	G-121	95.5	SILTY GRAVEL with SAND (GM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-121	70.5	12.70	4.337	0.986	0.103	37.6	54.6	7.8
●	G-121	80.5	1.98	0.045	0.015	0.004	0.0	22.8	77.2
△	G-121	95.5	19.10	3.049	--	--	33.6	33.3	33.1

Laboratory Test Method: ASTM D 422

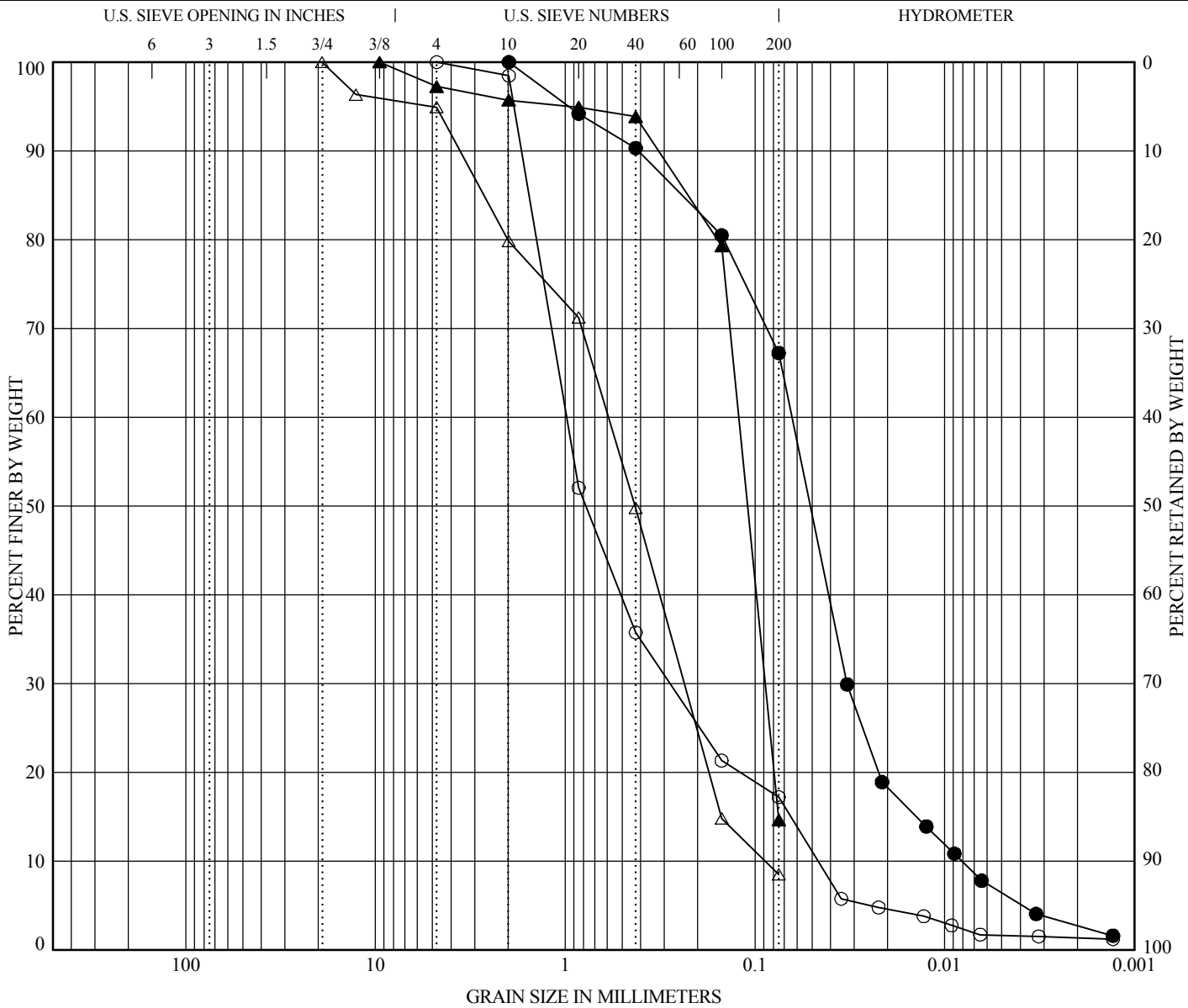
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.39



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-123	15.5	CLAYEY SAND (SC)	--	--	--	1.7	21.1
●	G-123	33.5	SANDY SILT (ML)	--	--	--	2.1	7.9
△	G-123	44.5	WELL GRADED SAND with SILT (SW-SM)	--	--	--	1.1	6.7
▲	G-123	55.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-123	15.5	4.75	0.982	0.280	0.046	0.0	82.8	17.2
●	G-123	33.5	1.98	0.064	0.033	0.008	0.0	32.8	67.2
△	G-123	44.5	19.10	0.591	0.236	0.088	5.1	86.4	8.5
▲	G-123	55.5	9.52	0.122	0.088	--	2.7	82.6	14.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: JF 9/12/2011
Checked/Date: LT 10/1/2011

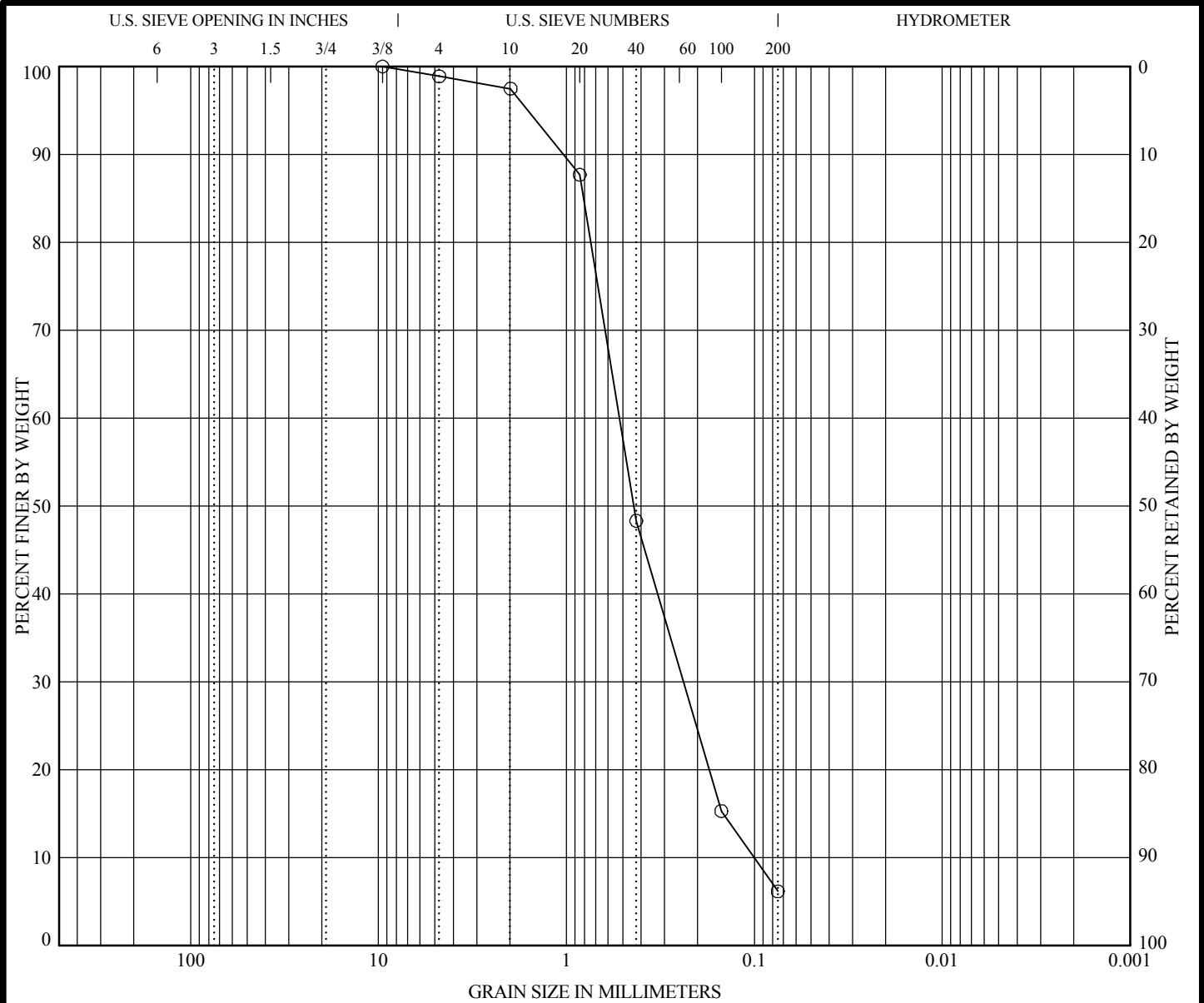
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Figure: F-6.40

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-123	69.5	POORLY GRADED SAND with SILT (SW-SM)	--	--	--	1.1	5.2

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-123	69.5	9.52	0.522	0.238	0.100	1.1	92.7	6.2

Laboratory Test Method: ASTM D 422

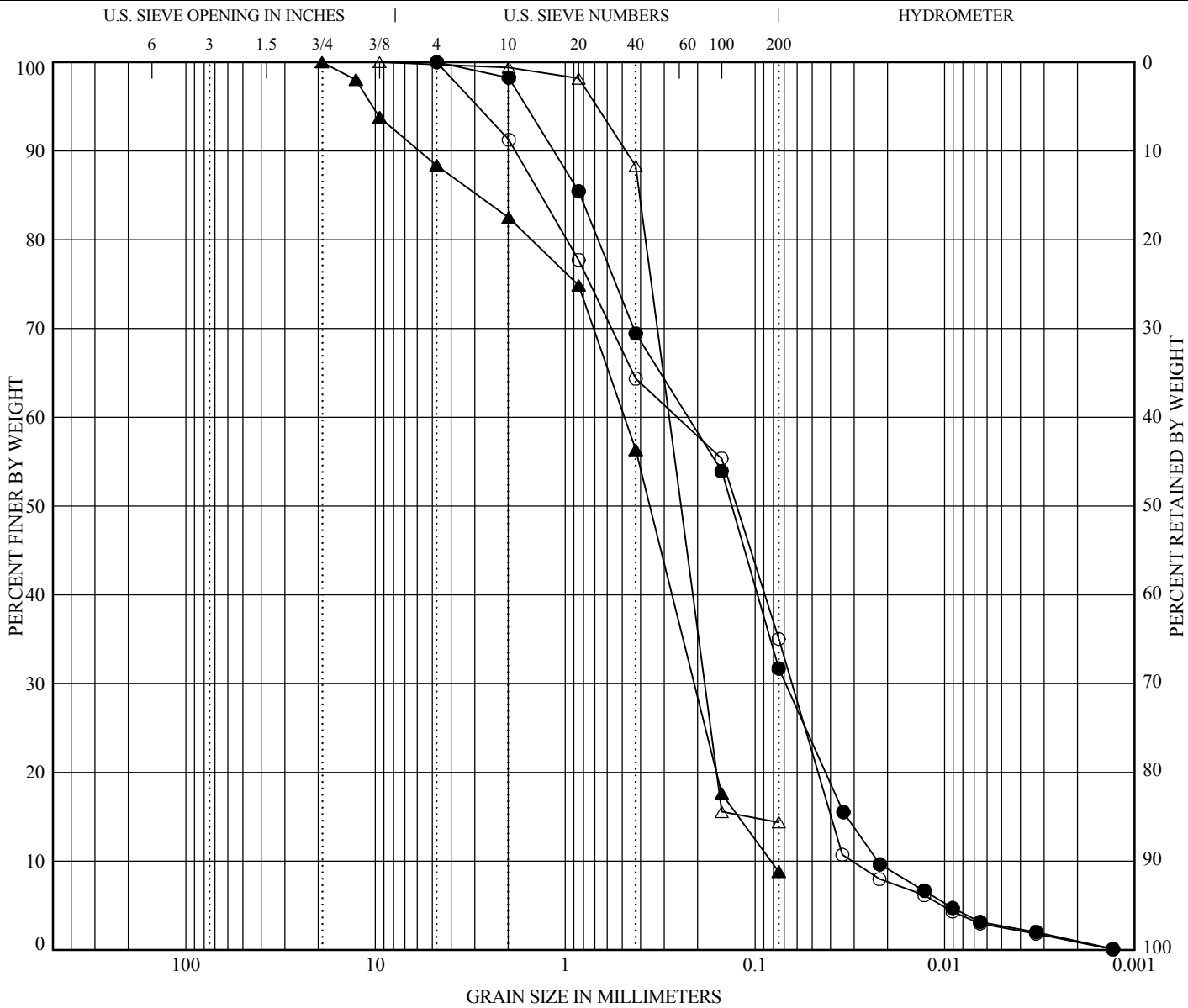
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Project No.: 4953-10-1561
 Figure: F-6.41



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-124	15.5	CLAYEY SAND (SC)	--	--	--	0.5	8.3
●	G-124	30.5	CLAYEY SAND (SC)	--	--	--	0.9	10.0
△	G-124	45.5	SILTY SAND (SM)	--	--	--	--	--
▲	G-124	60.5	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.1	5.9

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-124	15.5	4.75	0.257	0.064	0.031	0.0	65.0	35.0
●	G-124	30.5	4.75	0.226	0.069	0.023	0.0	68.3	31.7
△	G-124	45.5	9.52	0.283	0.184	--	0.3	85.4	14.4
▲	G-124	60.5	19.10	0.487	0.209	0.082	11.6	79.6	8.8

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: JF 8/8/2011
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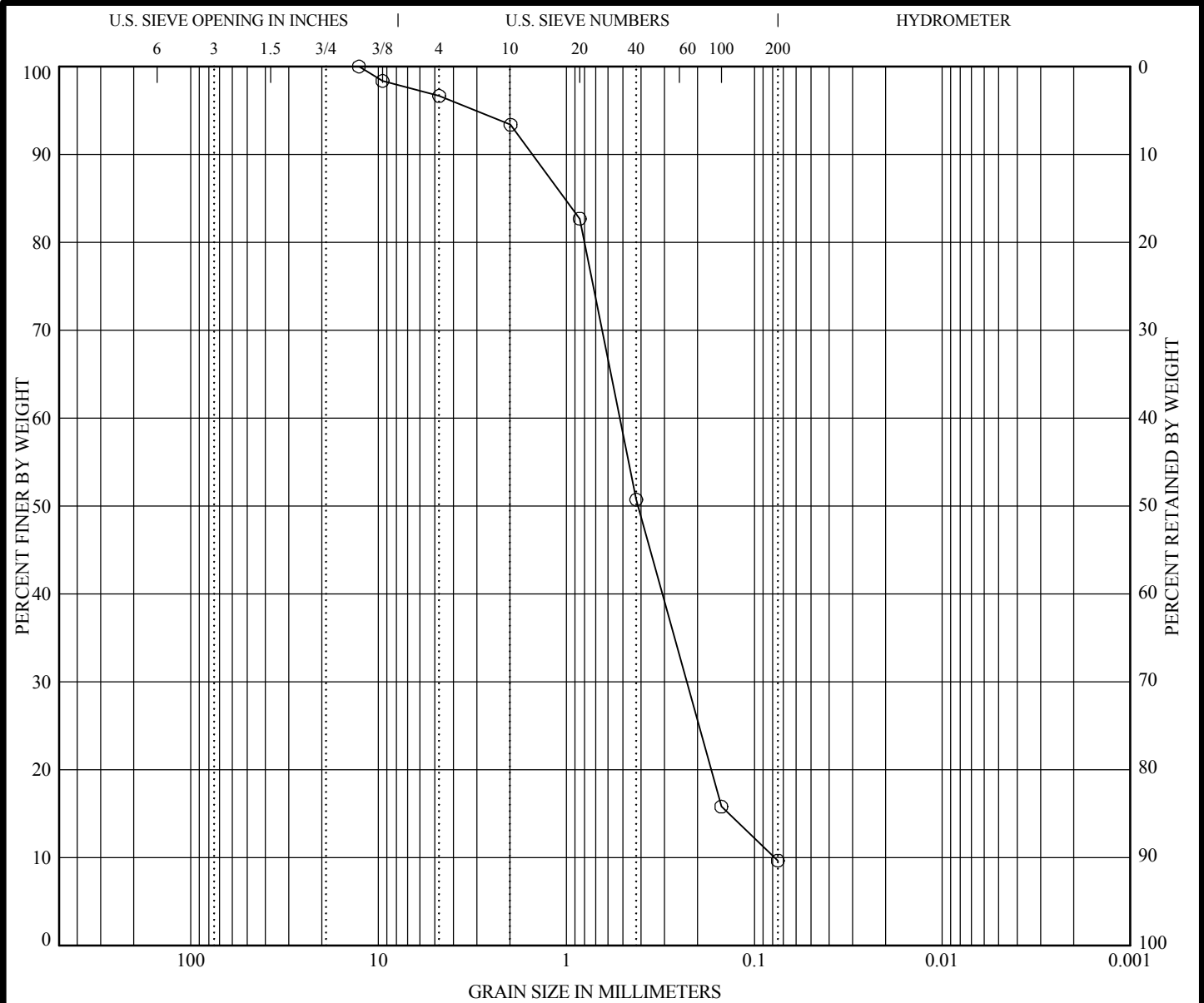
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Figure: F-6.42

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-124	80.5	WELL GRADED SAND with SILT (SW-SM)	--	--	--	1.3	6.7

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-124	80.5	12.70	0.520	0.229	0.078	3.3	87.0	9.7

Laboratory Test Method: ASTM D 422

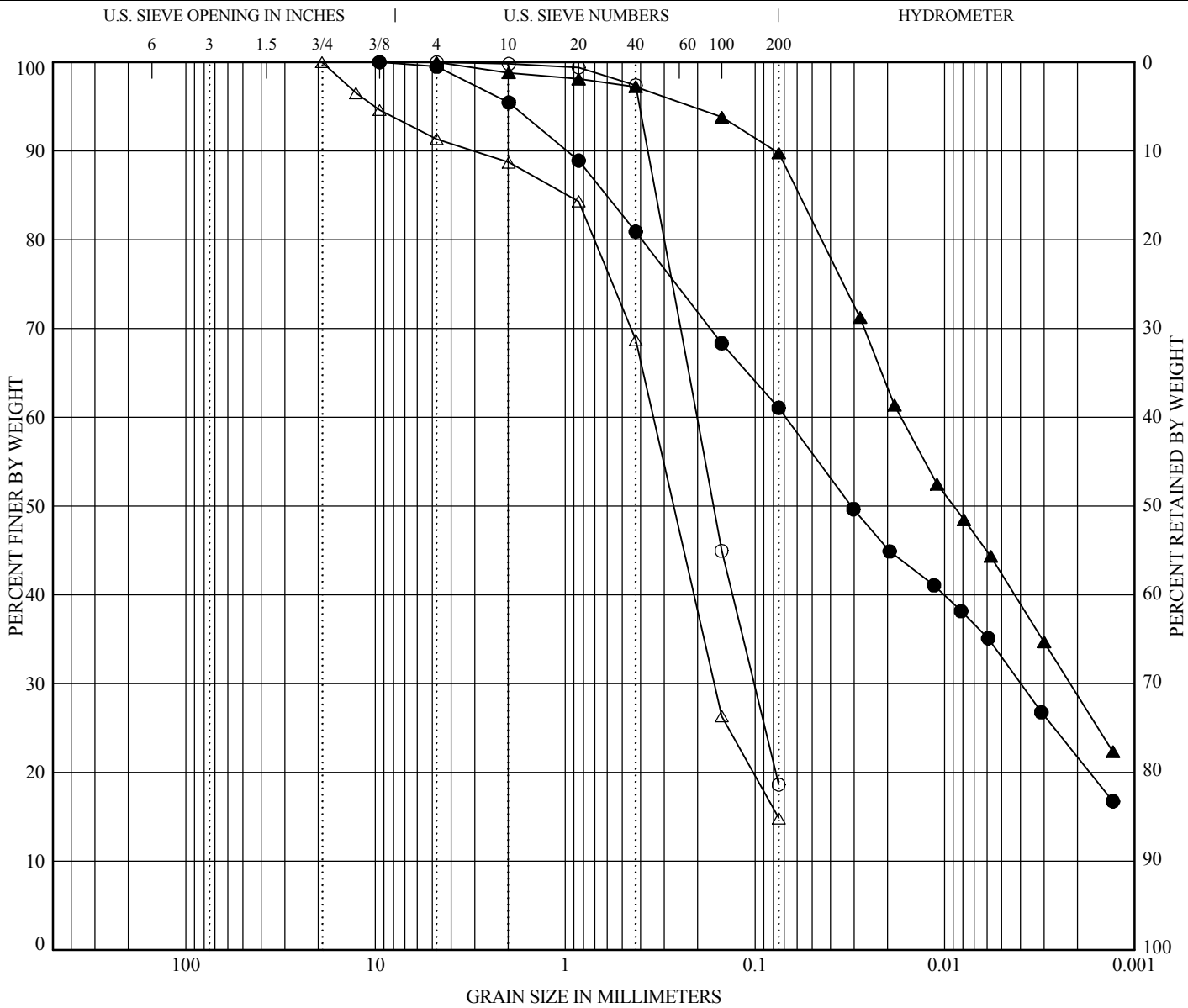
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.43



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-125	25.5	SILTY SAND (SM)	--	--	--	--	--
●	G-125	47.5	SANDY SILT (ML)	47	30	17	--	--
△	G-125	59.5	SILTY SAND (SM)	--	--	--	--	--
▲	G-125	65.5	ELASTIC SILT (MH)	64	34	30	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-125	25.5	9.52	0.202	0.101	--	0.0	81.4	18.6
●	G-125	47.5	9.52	0.069	0.004	--	0.5	38.4	61.1
△	G-125	59.5	19.10	0.343	0.164	--	8.7	76.5	14.8
▲	G-125	65.5	4.75	0.017	0.002	--	0.0	10.2	89.8

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: LH 9/12/2011
Checked/Date: LT 9/14/2011

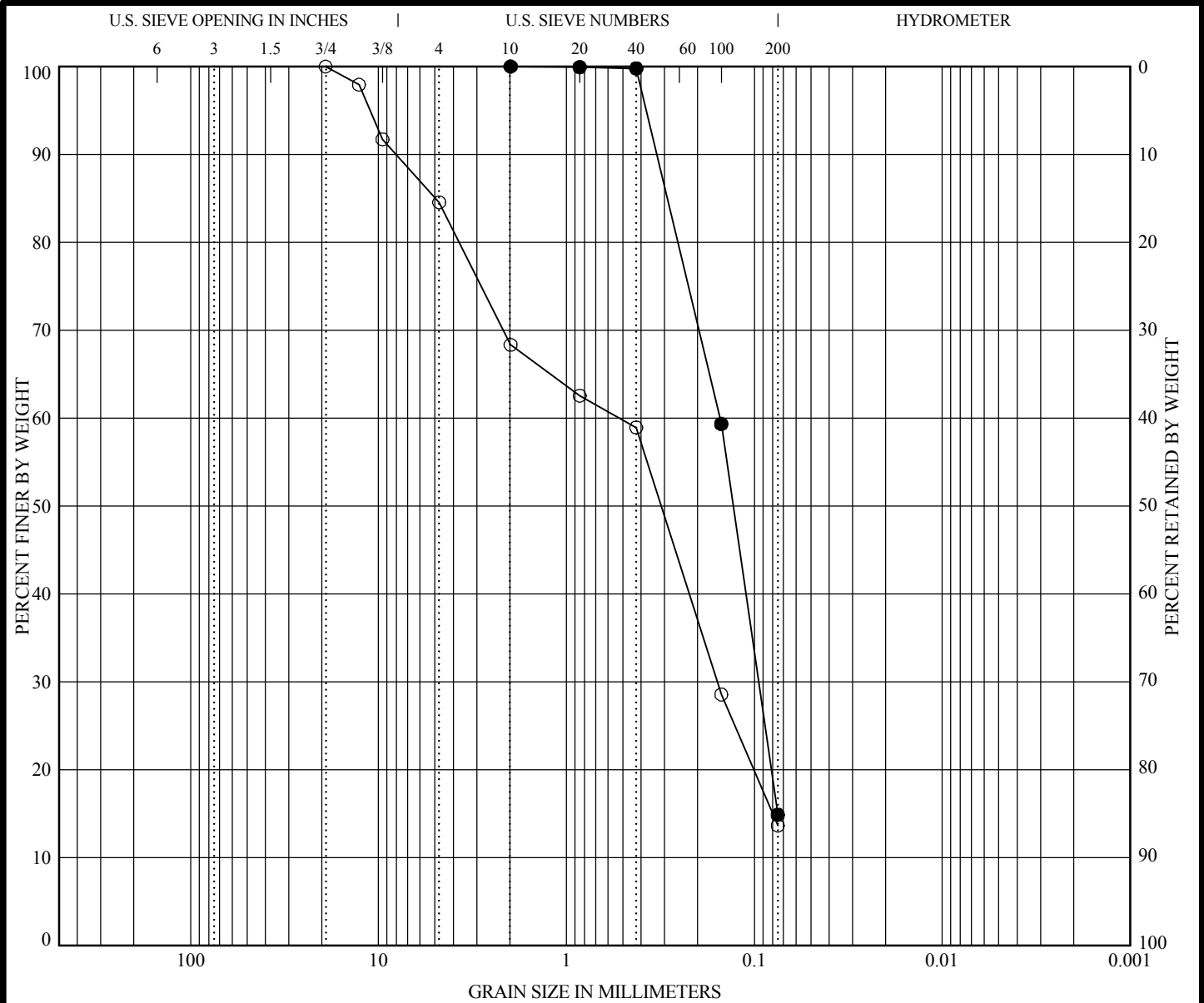
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Figure: F-6.44

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-125	77.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
●	G-125	90.0	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-125	77.5	19.10	0.522	0.158	--	15.4	70.9	13.6
●	G-125	90.0	1.98	0.153	0.095	--	0.0	85.1	14.9

Laboratory Test Method: ASTM D 422

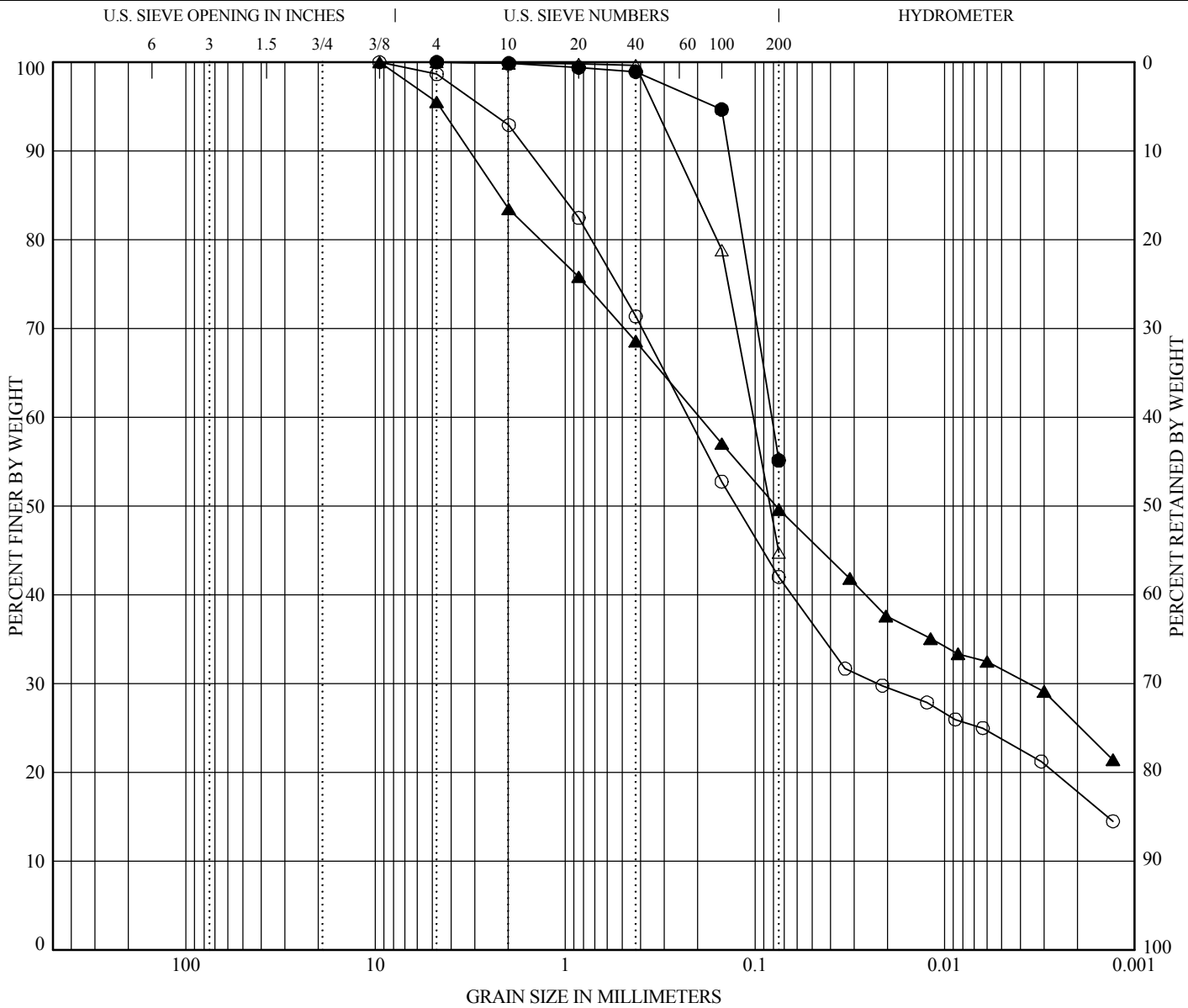
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.45



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-126	45.5	CLAYEY SAND (SC)	38	23	15	--	--
●	G-126	65.5	SANDY SILT (ML)	--	--	--	--	--
△	G-126	75.5	SILTY SAND (SM)	--	--	--	--	--
▲	G-126	80.5	CLAYEY SAND (SC)	49	22	27	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-126	45.5	9.52	0.225	0.022	--	1.4	56.6	42.0
●	G-126	65.5	4.75	0.082	--	--	0.0	44.9	55.1
△	G-126	75.5	4.75	0.102	--	--	0.0	55.2	44.8
▲	G-126	80.5	9.52	0.196	0.004	--	4.5	45.9	49.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: JF 6/16/2011
Checked/Date: HP 9/13/2011

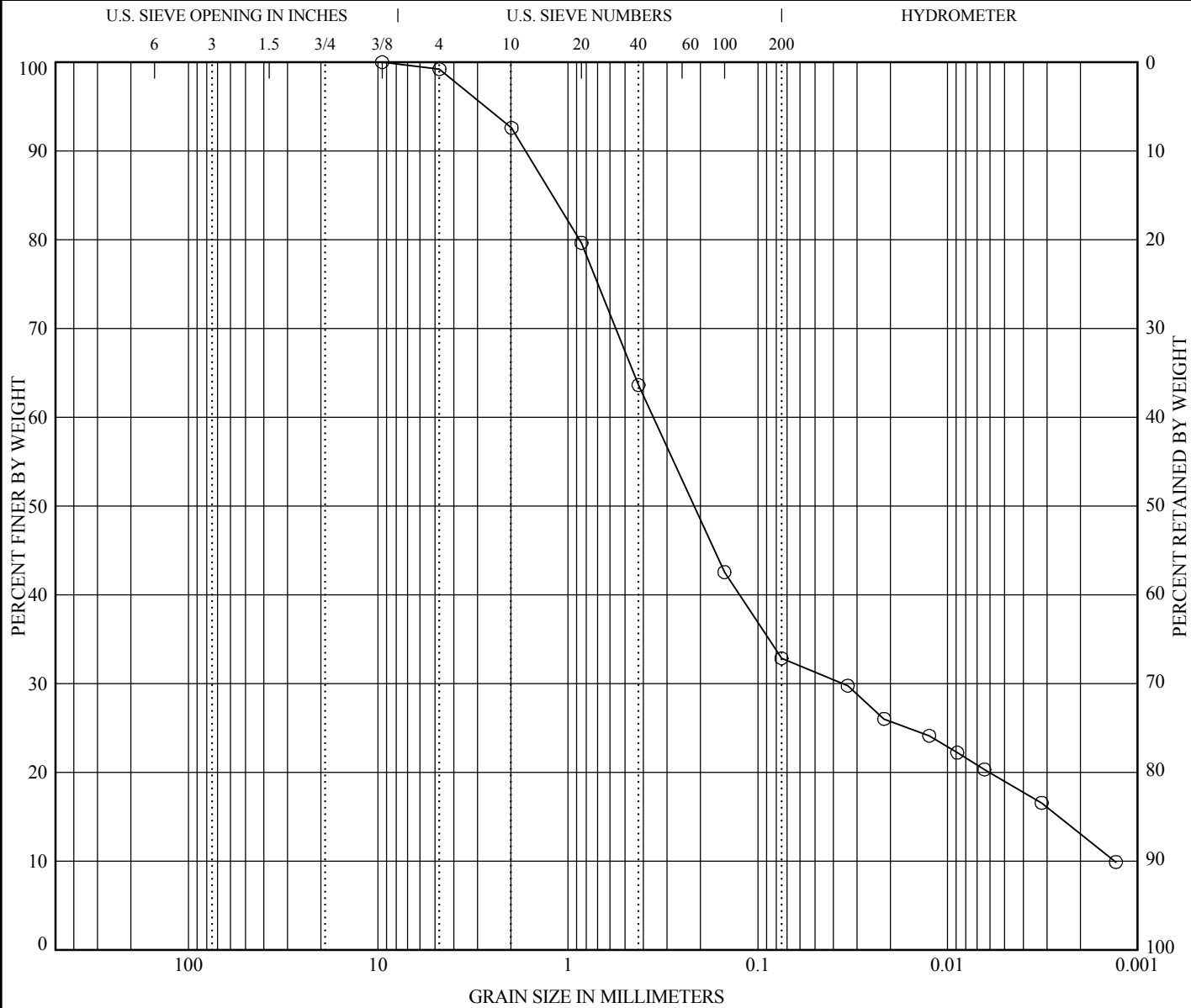
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Figure: F-6.46

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-126	95.5	SILTY SAND (SM)	--	--	--	2.7	269.9

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-126	95.5	9.52	0.355	0.036	0.001	0.8	66.4	32.9

Laboratory Test Method: ASTM D 422

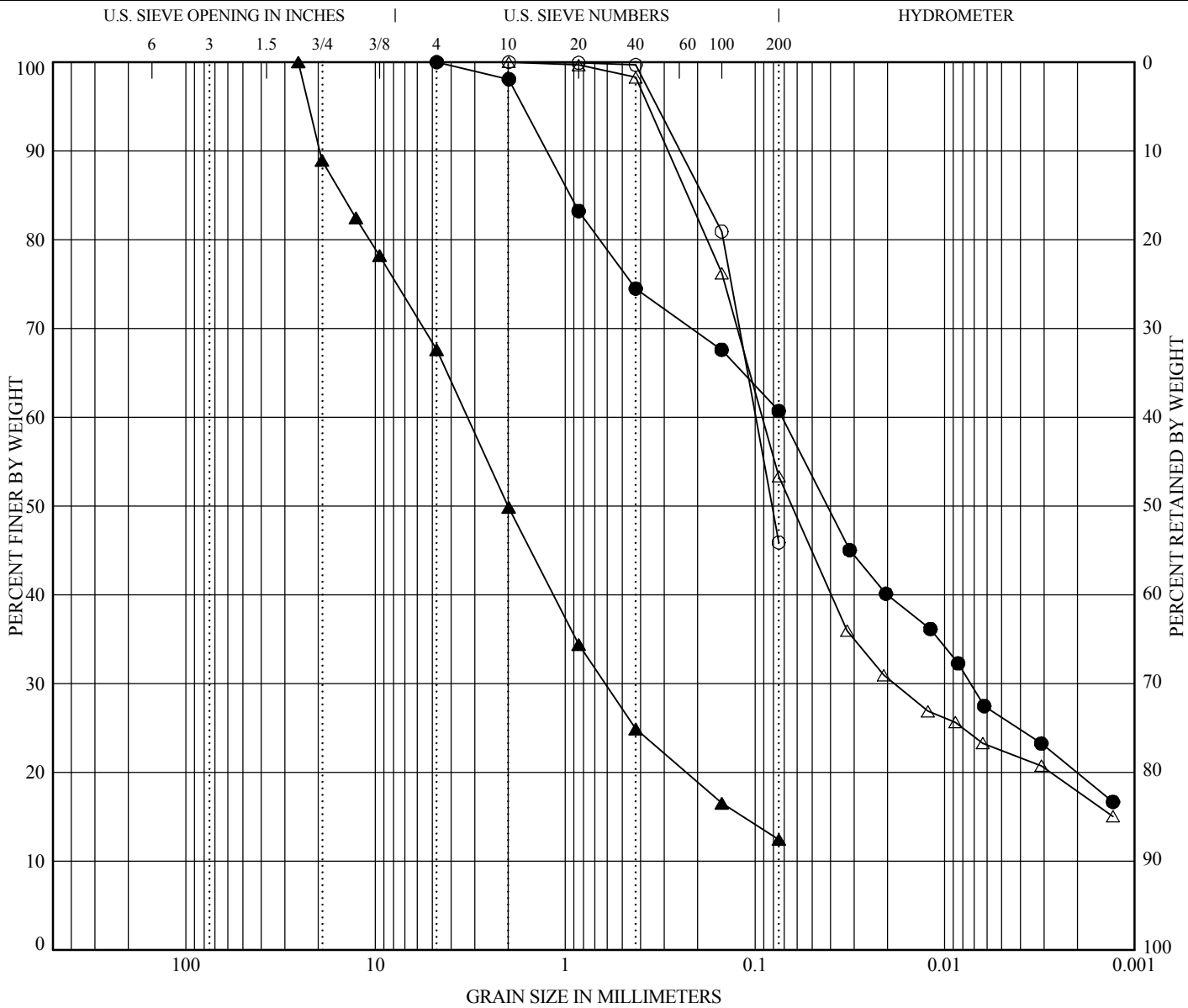
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Project No.: 4953-10-1561
 Figure: F-6.47



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-127	30.5	SILTY SAND (SM)	--	--	--	--	--
●	G-127	40.5	SANDY SILT (ML)	40	27	13	--	--
△	G-127	55.5	SANDY LEAN CLAY (CL)	39	25	14	--	--
▲	G-127	70.5	SILTY SAND with GRAVEL (SM)	--	--	--	2.3	65.6

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-127	30.5	1.98	0.099	--	--	0.0	54.1	45.9
●	G-127	40.5	4.75	0.072	0.007	--	0.0	39.3	60.7
△	G-127	55.5	1.98	0.092	0.019	--	0.0	46.6	53.4
▲	G-127	70.5	25.40	3.265	0.617	--	32.4	55.2	12.4

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: LH 9/12/2011
Checked/Date: LT 9/16/2011

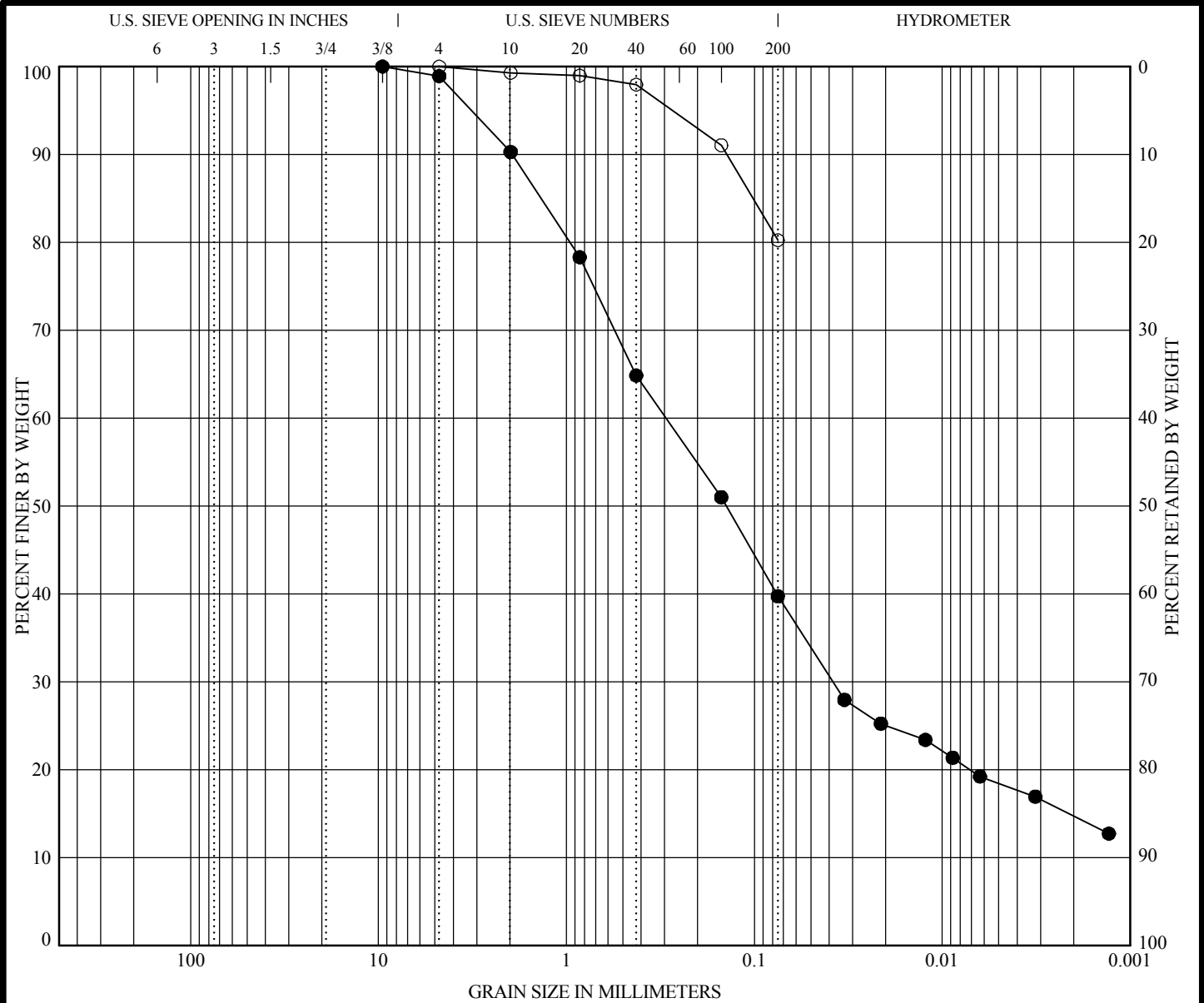
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Figure: F-6.48

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-127	75.5	SILT with SAND (ML)	--	--	--	--	--
●	G-127	90.5	SILTY SAND (SM)	47	29	18	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-127	75.5	4.75	--	--	--	0.0	19.8	80.2
●	G-127	90.5	9.52	0.295	0.038	--	1.1	59.2	39.7

Laboratory Test Method: ASTM D 422

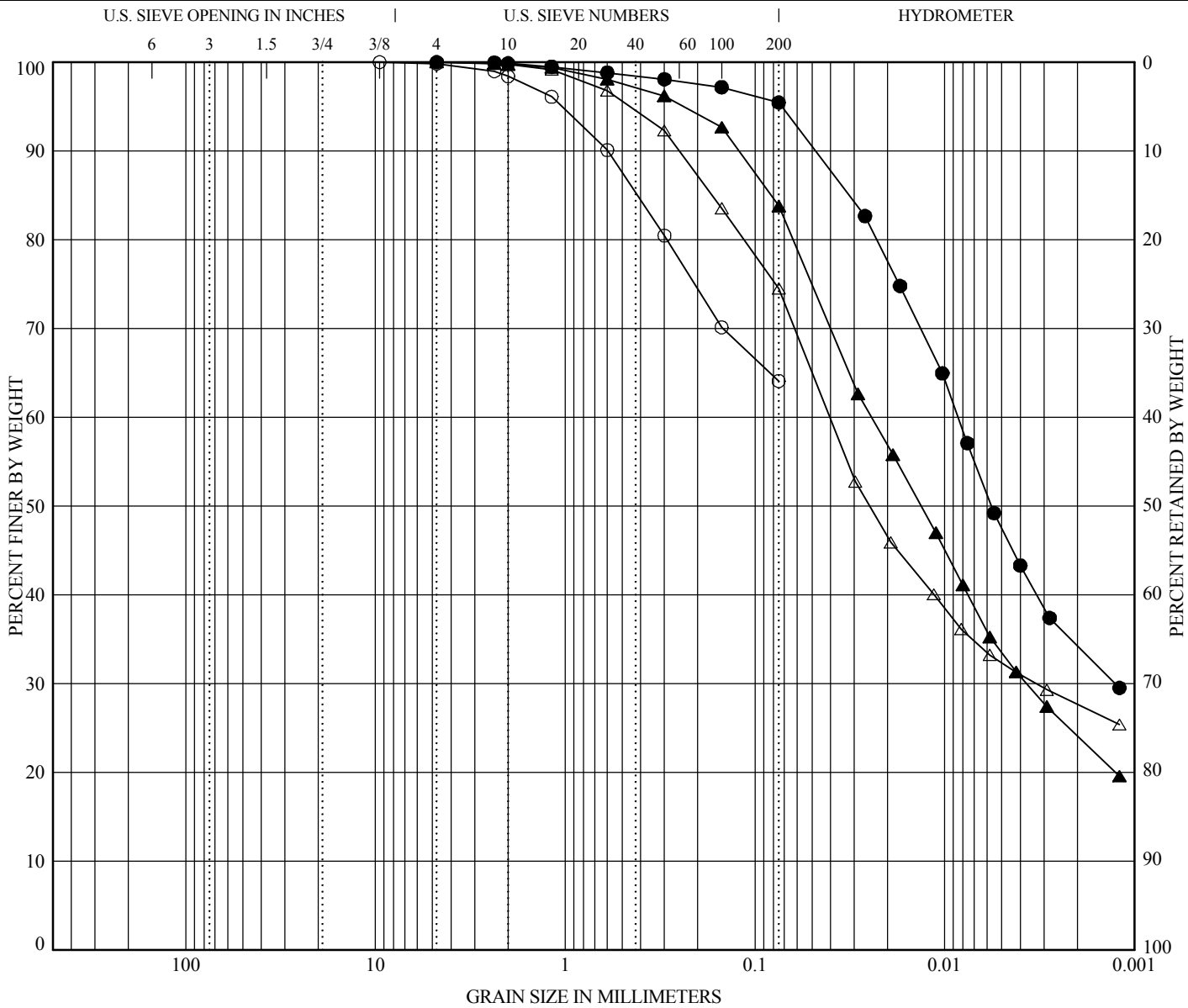
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.49



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-128	5.5	SANDY LEAN CLAY (CL)	44	13	31	--	--
●	G-128	15.5	FAT CLAY (CH)	59	19	40	--	--
△	G-128	25.5	LEAN CLAY with SAND (CL)	37	13	24	--	--
▲	G-128	30.5	LEAN CLAY with SAND (CL)	45	17	28	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-128	5.5	9.50	--	--	--	0.2	35.8	64.1
●	G-128	15.5	4.75	0.009	0.001	--	0.0	4.6	95.5
△	G-128	25.5	4.75	0.040	0.003	--	0.0	25.5	74.5
▲	G-128	30.5	4.75	0.024	0.004	--	0.0	16.2	83.8

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

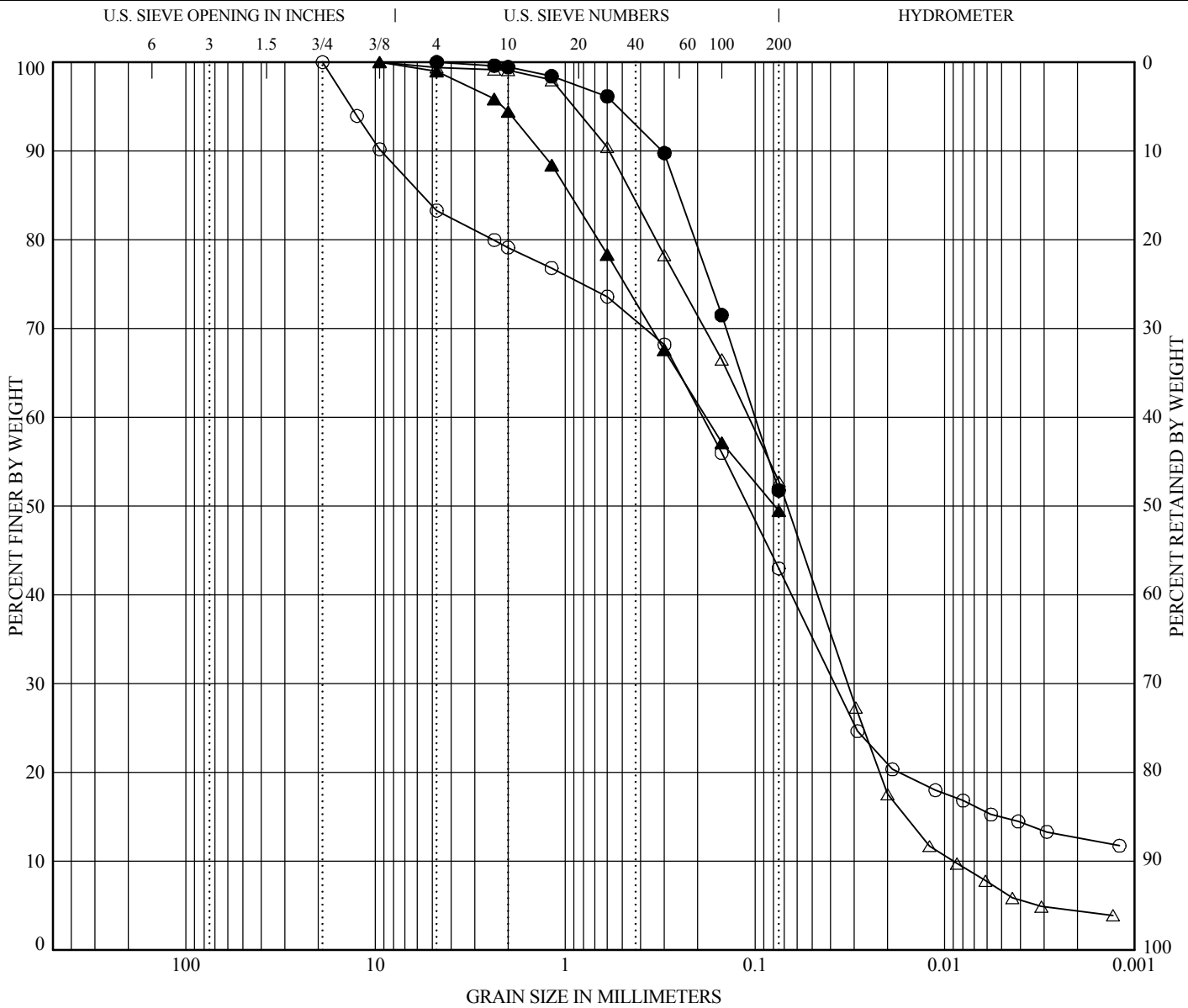
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Figure: F-6.50

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-128	45.5	CLAYEY SAND with GRAVEL (SC)	35	15	20	--	--
●	G-128	55.5	SANDY LEAN CLAY (CL)	30	17	13	--	--
△	G-128	70.5	SANDY SILT (ML)	NP	NP	NP	1.1	12.0
▲	G-128	85.0	CLAYEY SAND (SC)	42	14	28	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-128	45.5	19.00	0.189	0.038	--	16.7	40.3	43.0
●	G-128	55.5	4.75	0.100	--	--	0.0	48.2	51.8
△	G-128	70.5	9.50	0.108	0.033	0.009	0.6	46.6	52.8
▲	G-128	85.0	9.50	0.181	--	--	1.0	49.5	49.5

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

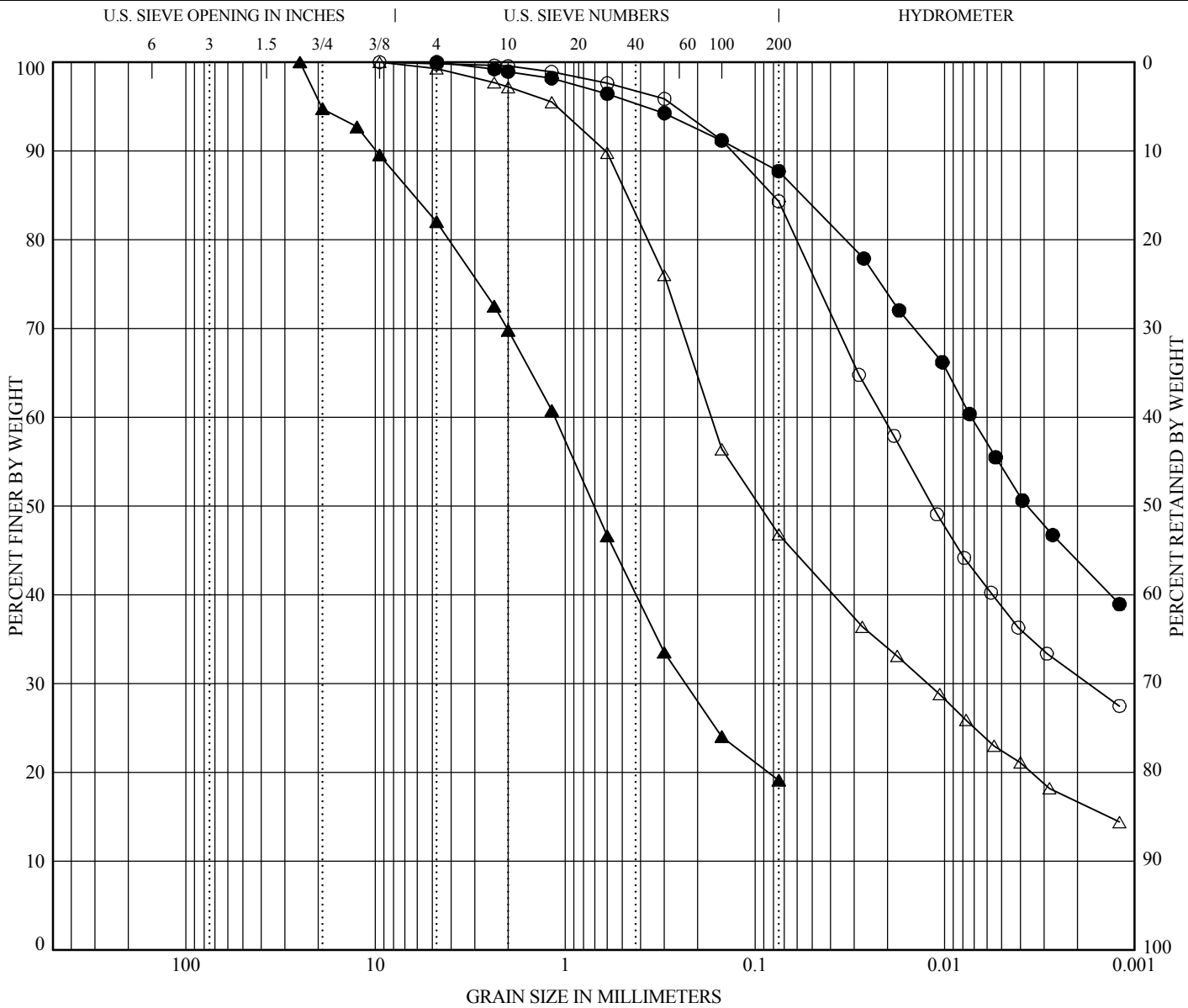
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-129	14.0	LEAN CLAY with SAND (CL)	34	15	19	--	--
●	G-129	24.0	FAT CLAY (CH)	59	17	42	--	--
△	G-129	34.0	CLAYEY SAND (SC)	30	12	18	--	--
▲	G-129	44.0	SILTY SAND with GRAVEL (SM)	NP	NP	NP	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-129	14.0	9.50	0.021	0.002	--	0.2	15.5	84.3
●	G-129	24.0	4.75	0.007	--	--	0.0	12.3	87.7
△	G-129	34.0	9.50	0.170	0.012	--	0.7	52.5	46.8
▲	G-129	44.0	25.00	1.137	0.232	--	18.0	62.9	19.1

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

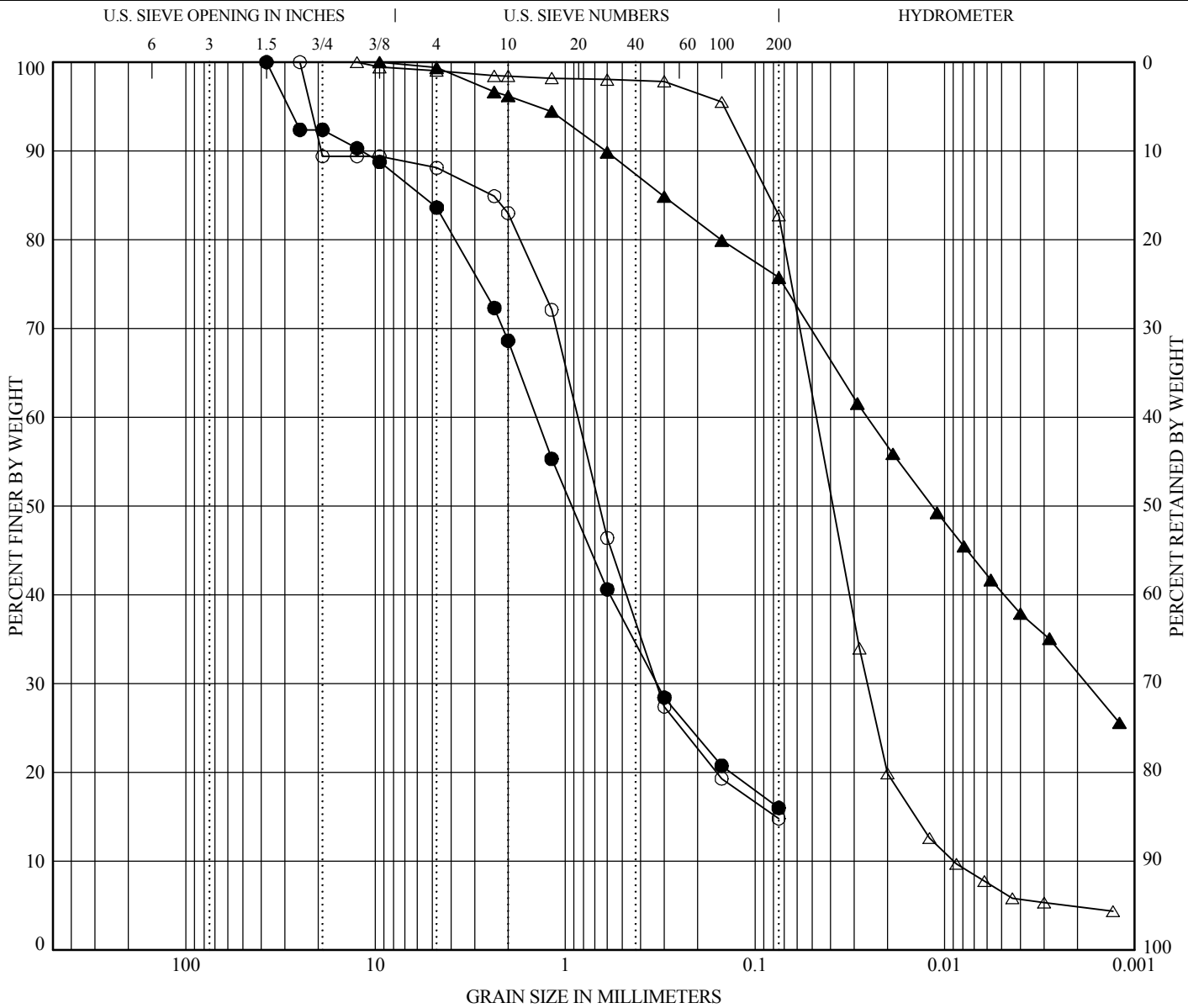
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-129	59.5	SILTY SAND (SM)	NP	NP	NP	--	--
●	G-129	64.0	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
△	G-129	69.5	SILT with SAND (ML)	--	--	--	1.5	5.3
▲	G-129	89.5	FAT CLAY with SAND (CH)	54	16	38	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-129	59.5	25.00	0.858	0.330	--	11.9	73.3	14.8
●	G-129	64.0	37.50	1.421	0.328	--	16.4	67.6	16.0
△	G-129	69.5	12.50	0.048	0.026	0.009	1.0	16.3	82.7
▲	G-129	89.5	9.50	0.026	0.002	--	0.6	23.6	75.7

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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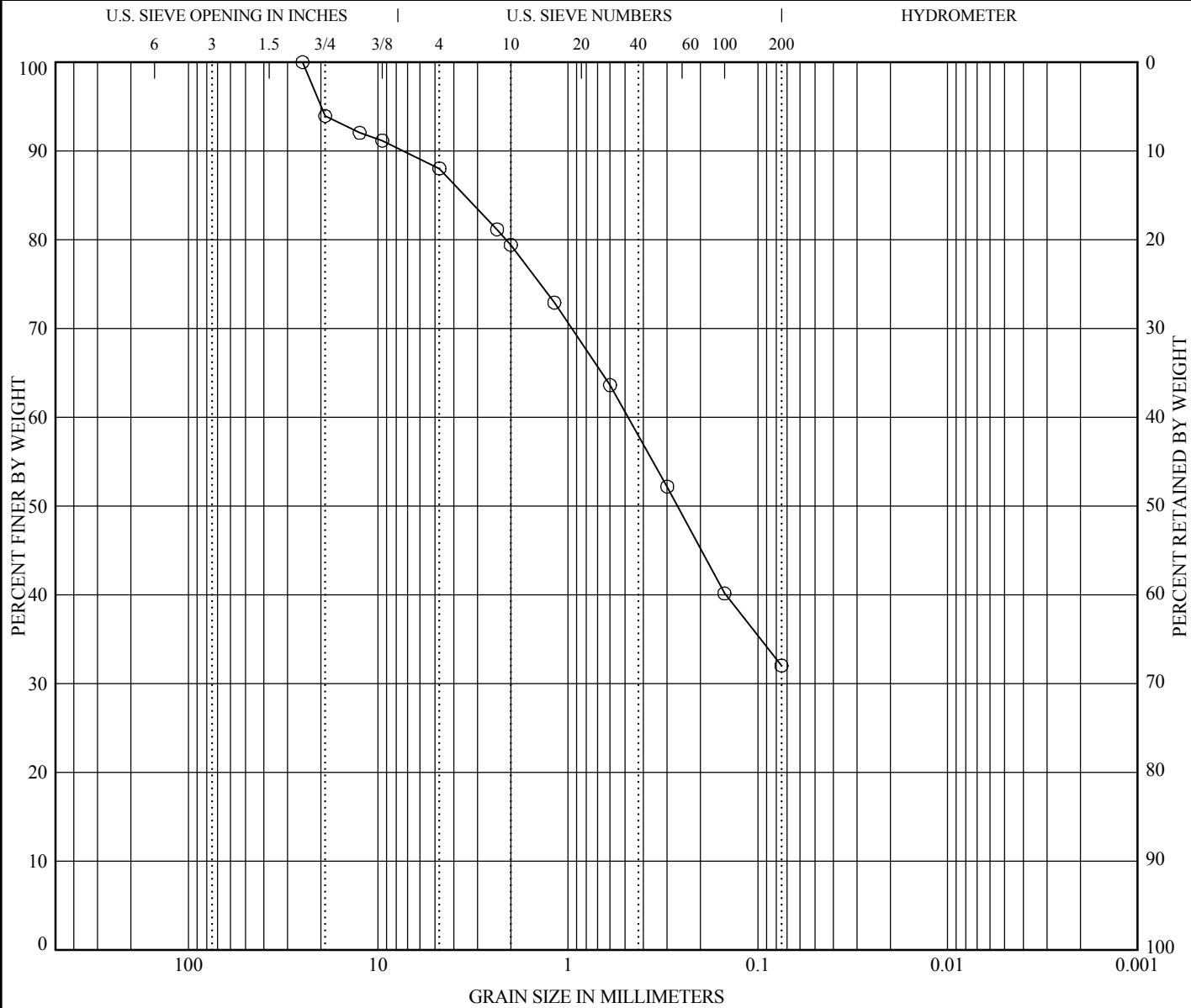
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Figure: F-6.53

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-129	104.0	CLAYEY SAND (SC)	40	14	26	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-129	104.0	25.00	0.482	--	--	12.0	56.0	32.0

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

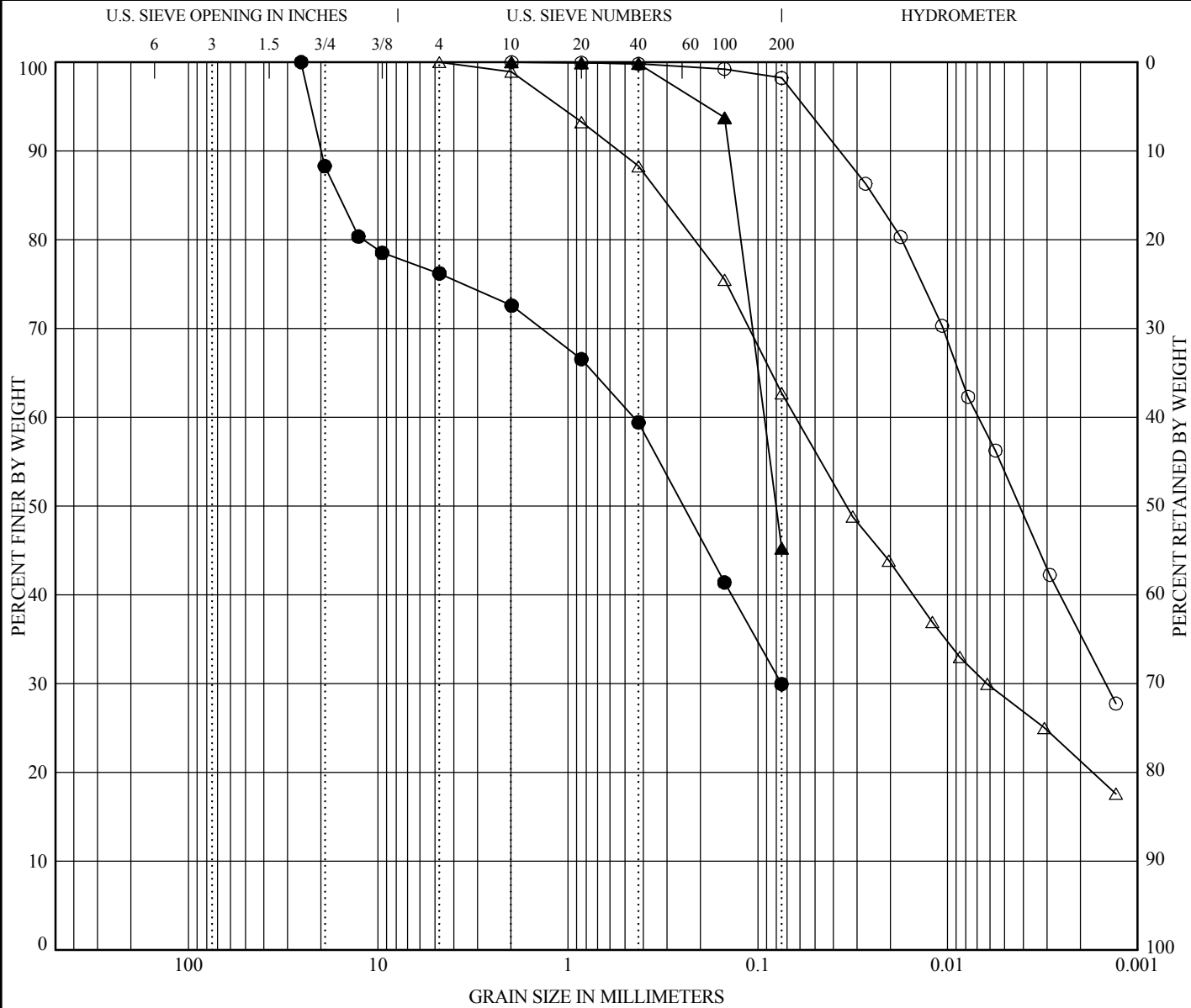
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-130B	40.5	LEAN CLAY (CL)	--	--	--	--	--
●	G-130B	55.5	CLAYEY SAND with GRAVEL (SC)	--	--	--	--	--
△	G-130B	60.5	SANDY SILT (ML)	48	28	20	--	--
▲	G-130B	80.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-130B	40.5	1.98	0.007	0.001	--	0.0	1.8	98.2
●	G-130B	55.5	25.40	0.450	0.075	--	23.8	46.2	30.0
△	G-130B	60.5	4.75	0.063	0.006	--	0.0	37.3	62.7
▲	G-130B	80.5	1.98	0.093	--	--	0.0	54.8	45.2

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

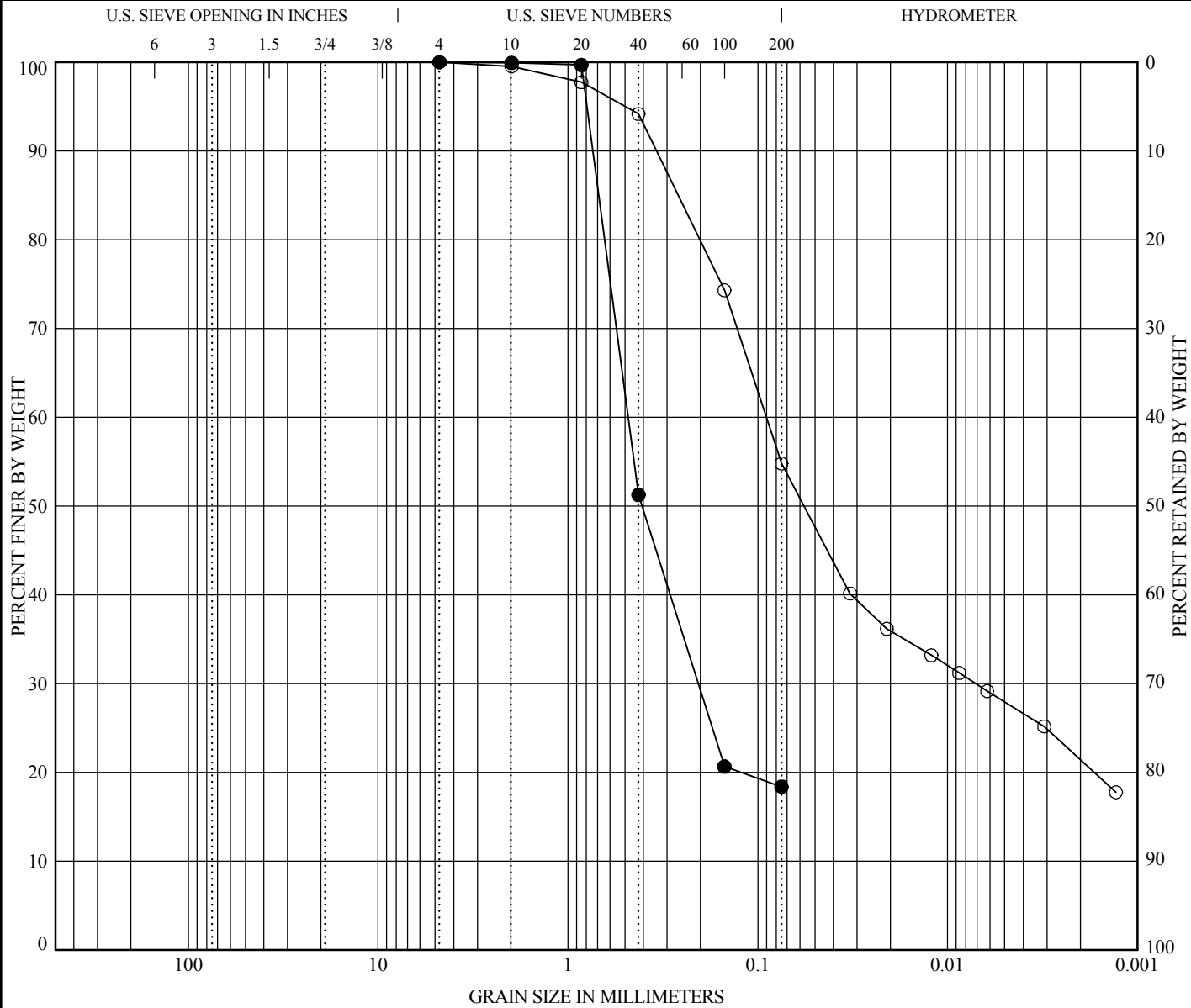
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION					LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-130B	100.5	SANDY LEAN CLAY (CL)					--	--	--	--	--
●	G-130B	120.5	SILTY SAND (SM)					--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-130B	100.5	4.75	0.090	0.007	--	0.0	45.2	54.8
●	G-130B	120.5	4.75	0.482	0.206	--	0.0	81.6	18.4

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

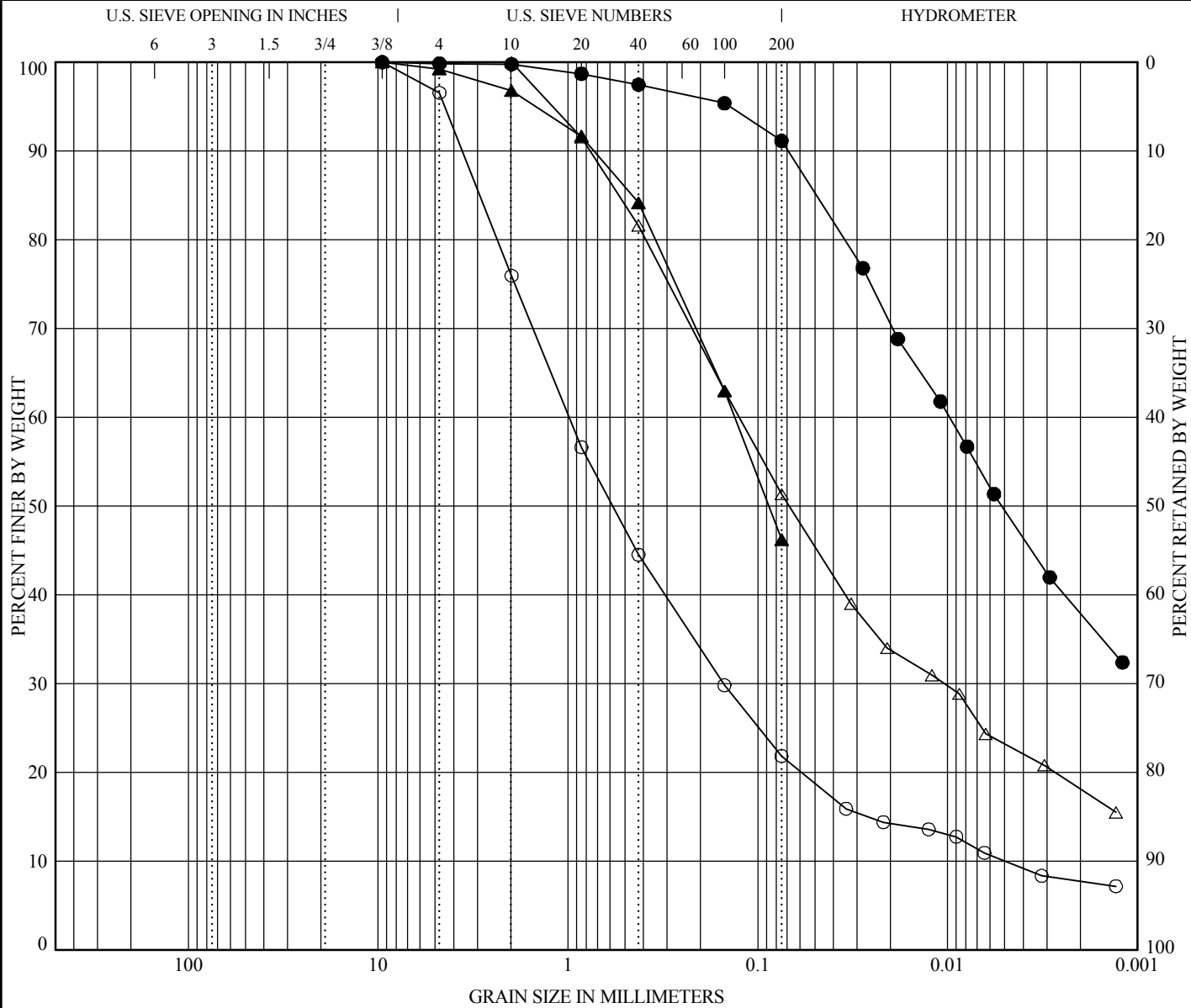
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-131	10.5	CLAYEY SAND (SC)	31	22	9	4.7	197.6
●	G-131	35.5	FAT CLAY (CH)	61	31	30	--	--
△	G-131	50.5	SANDY SILT (ML)	--	--	--	--	--
▲	G-131	55.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-131	10.5	9.52	0.985	0.152	0.005	3.4	74.7	21.8
●	G-131	35.5	9.52	0.010	--	--	0.2	8.7	91.1
△	G-131	50.5	1.98	0.126	0.010	--	0.0	48.7	51.3
▲	G-131	55.5	9.52	0.133	--	--	0.8	53.0	46.2

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

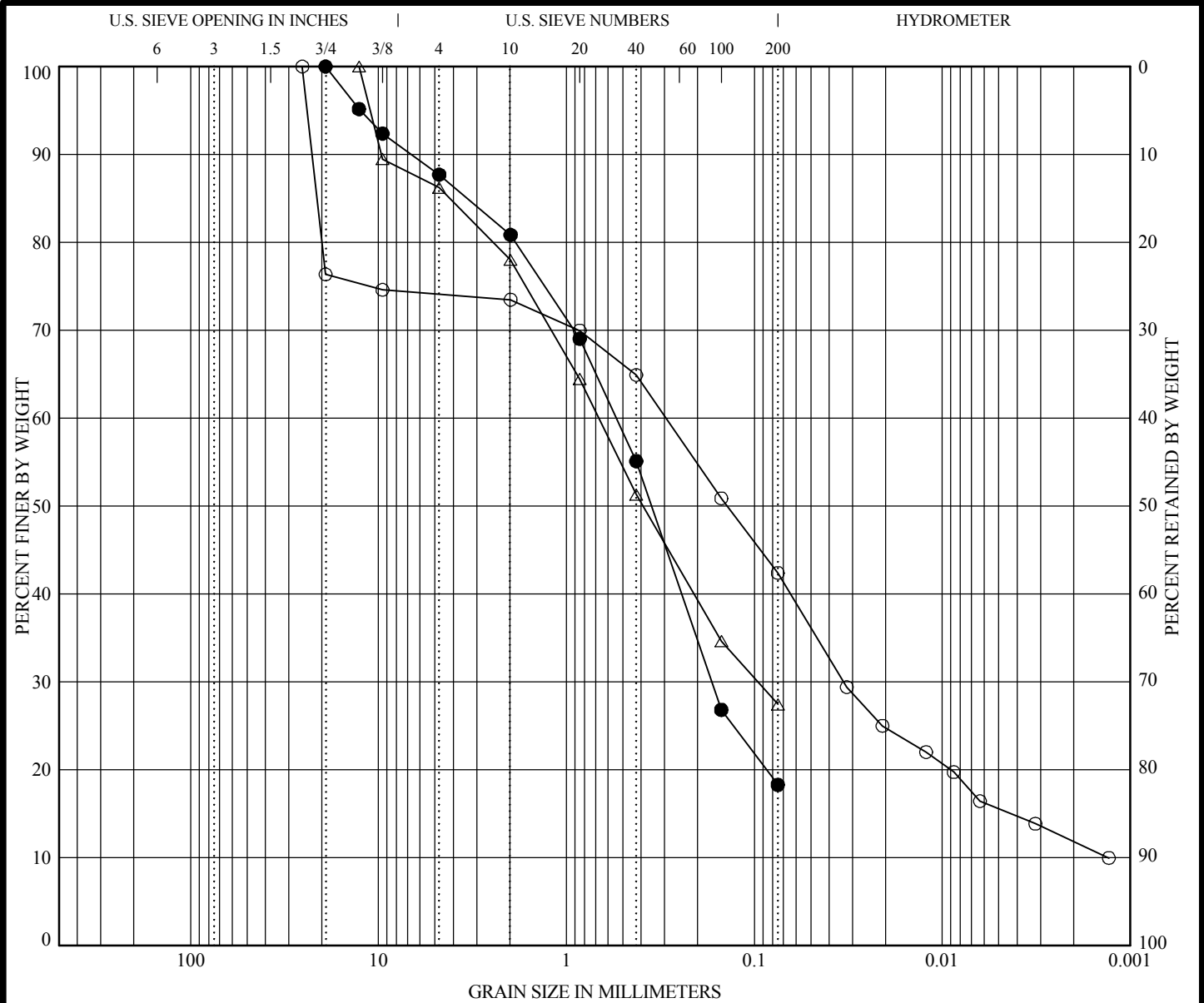
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-131	65.5	CLAYEY SAND with GRAVEL (SC)	43	26	17	2.9	224.9
●	G-131	80.5	SILTY SAND (SM)	--	--	--	--	--
△	G-131	95.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-131	65.5	25.40	0.295	0.033	0.001	25.9	31.7	42.4
●	G-131	80.5	19.10	0.542	0.169	--	12.3	69.4	18.3
△	G-131	95.5	12.70	0.672	0.096	--	13.8	58.8	27.4

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

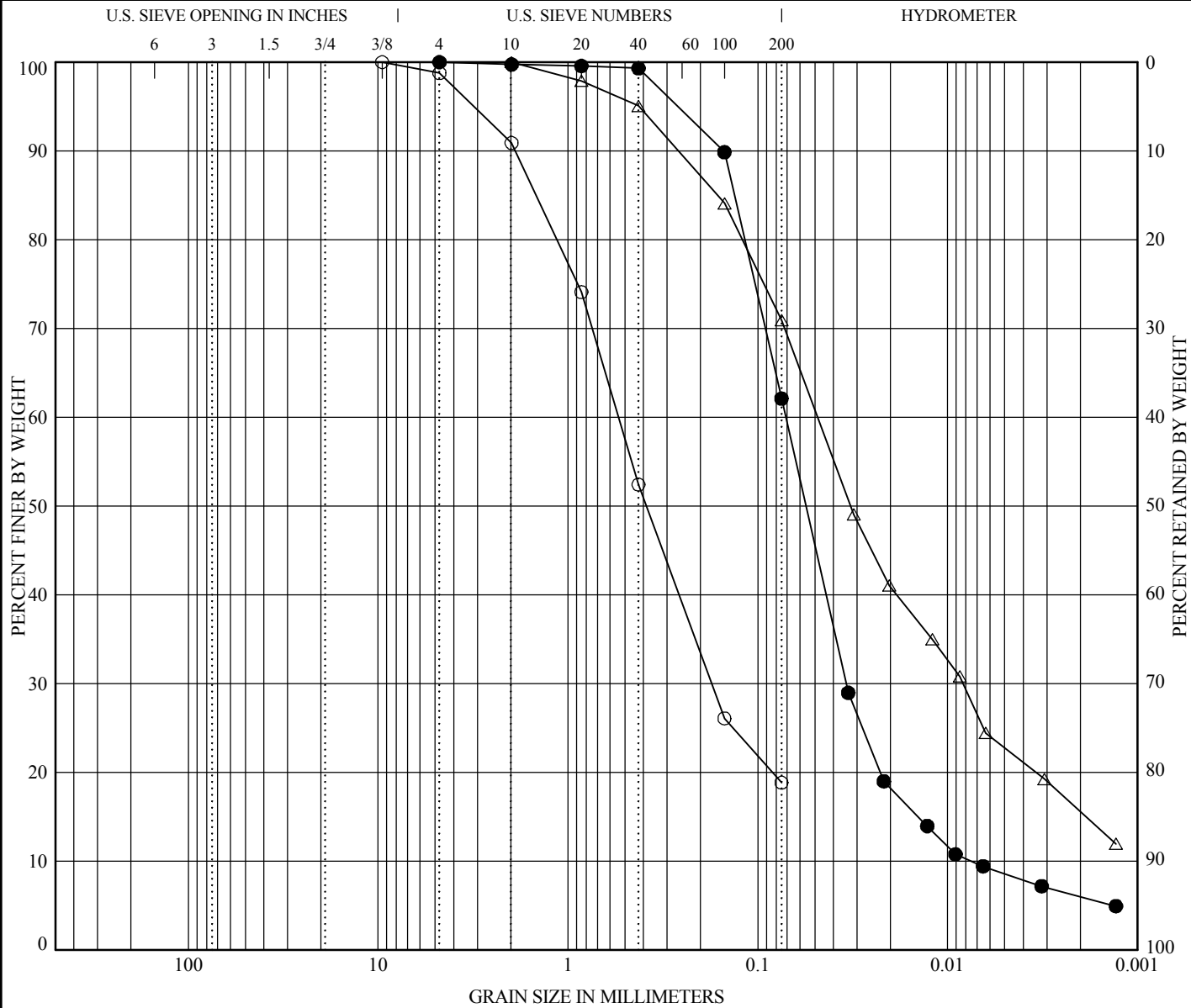
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-132	80.5	CLAYEY SAND (SC)	--	--	--	--	--
●	G-132	90.5	SANDY SILT (ML)	--	--	--	2.2	9.5
△	G-132	100.5	LEAN CLAY with SAND (CL)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-132	80.5	9.52	0.542	0.175	--	1.2	79.9	18.8
●	G-132	90.5	4.75	0.071	0.034	0.008	0.0	37.9	62.1
△	G-132	100.5	1.98	0.048	0.008	--	0.0	29.1	70.9

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

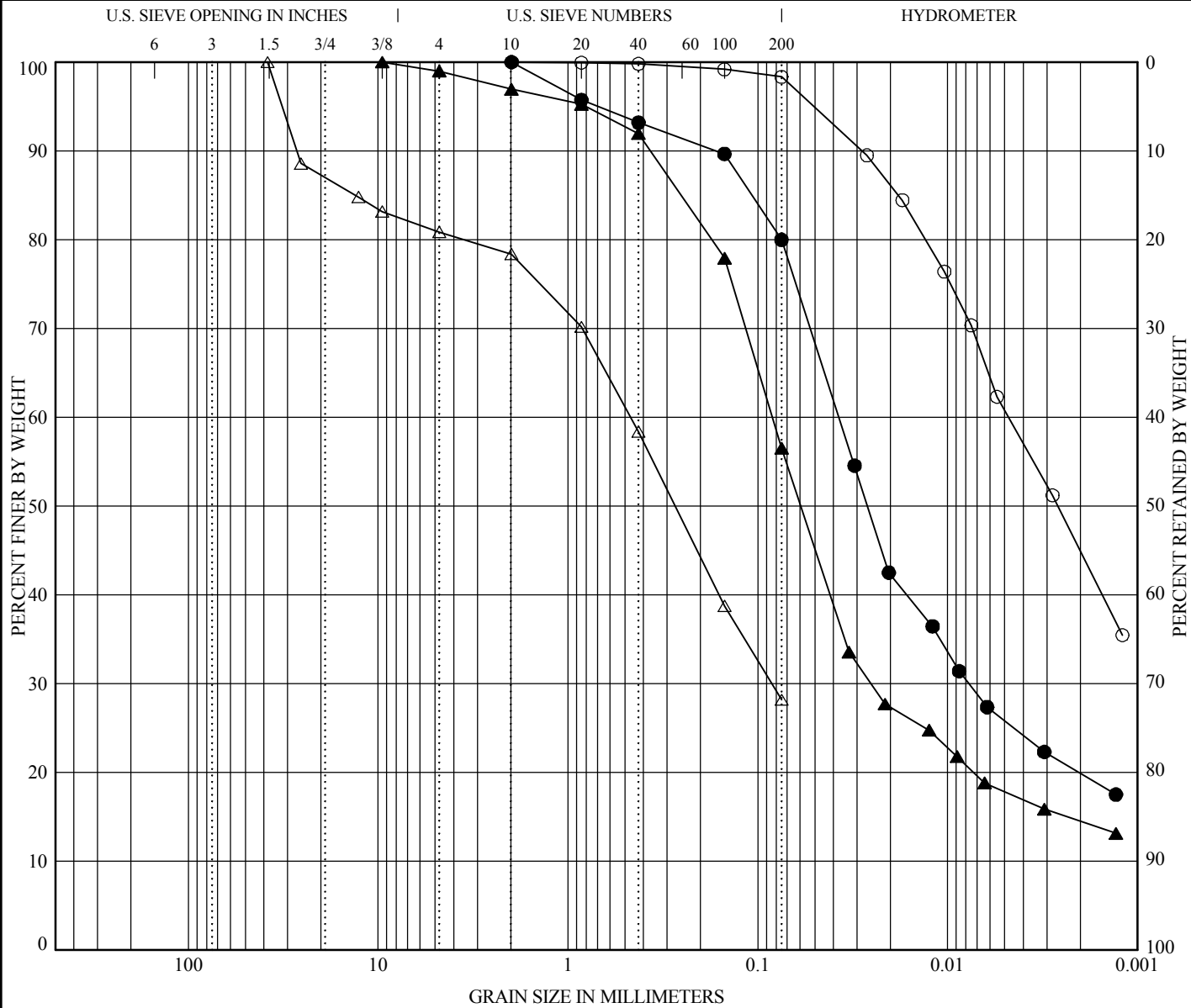
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-133	50.5	ELASTIC SILT (MH)	65	33	32	--	--
●	G-133	59.5	SILT with SAND (ML)	--	--	--	--	--
△	G-133	68.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
▲	G-133	74.5	SANDY SILT (ML)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-133	50.5	1.98	0.005	--	--	0.0	1.7	98.3
●	G-133	59.5	1.98	0.037	0.008	--	0.0	20.0	80.0
△	G-133	68.5	38.10	0.467	0.085	--	19.1	52.7	28.2
▲	G-133	74.5	9.52	0.084	0.025	--	1.0	42.5	56.5

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

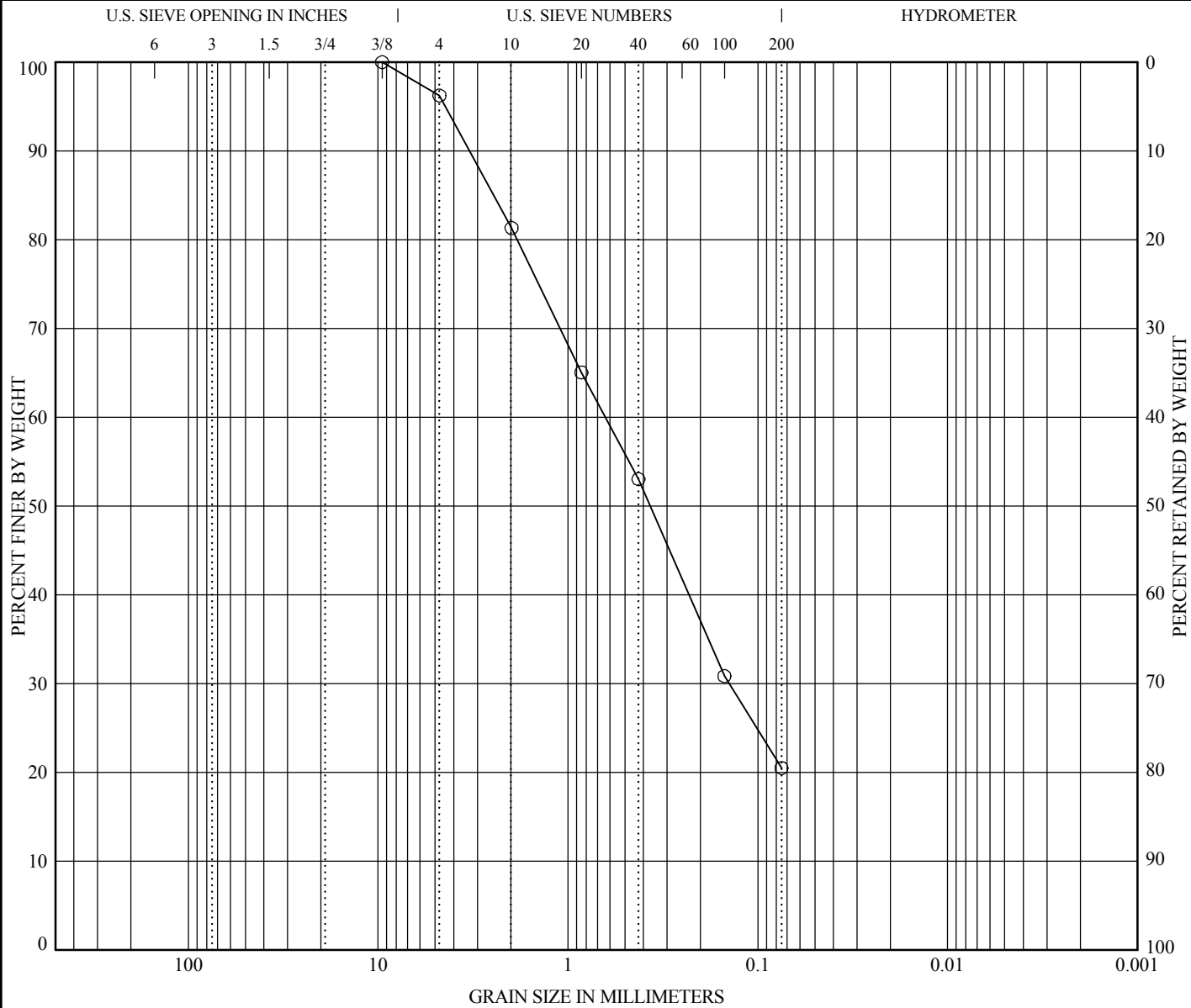
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 Figure: F-6.61

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-133	83.5	CLAYEY SAND (SC)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-133	83.5	9.52	0.635	0.142	--	3.8	75.7	20.5

Laboratory Test Method: ASTM D 422

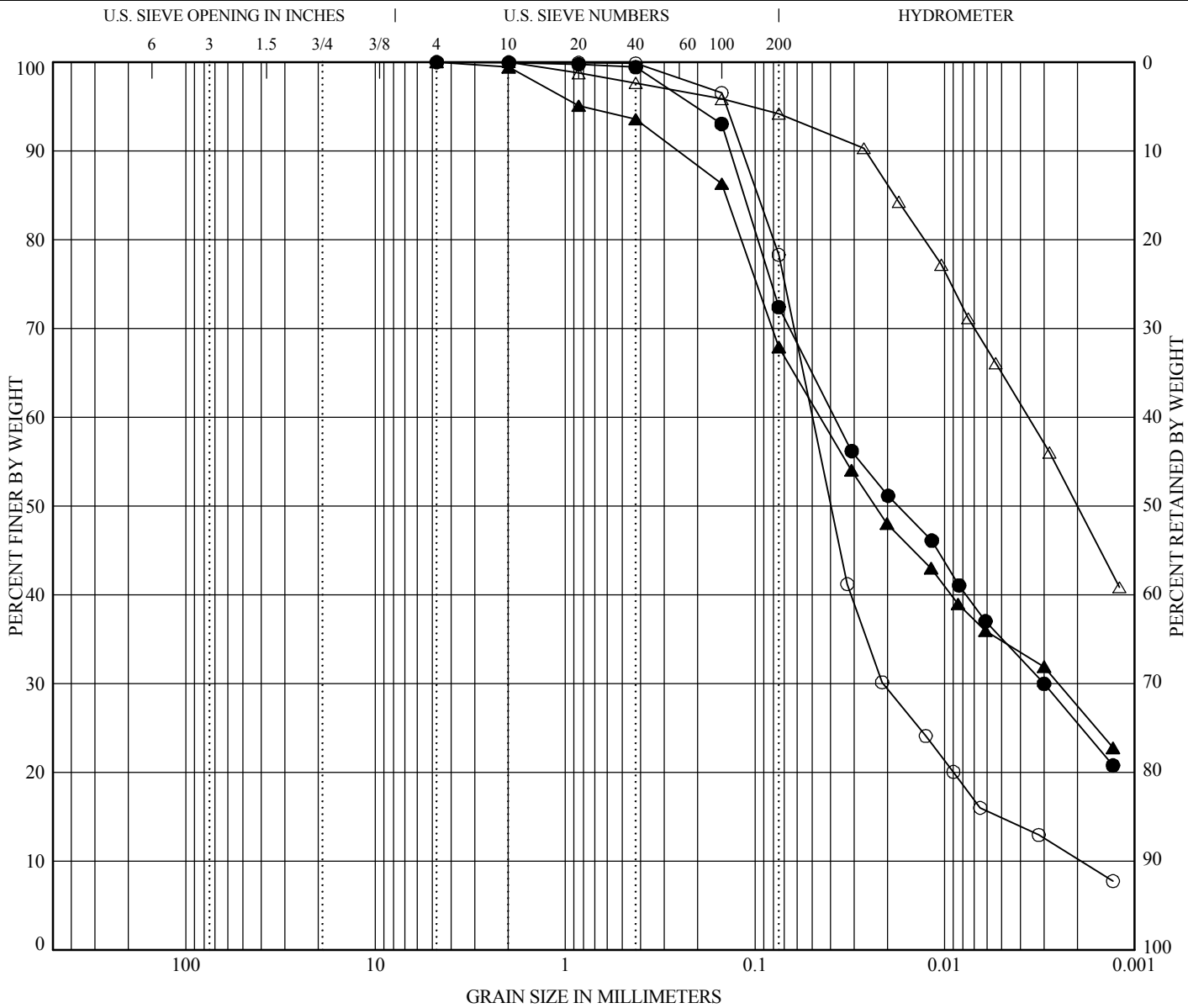
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.62



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-134	45.5	SILT with SAND (ML)	--	--	--	4.7	25.9
●	G-134	55.5	SILT with SAND (ML)	--	--	--	--	--
△	G-134	60.5	LEAN CLAY (CL)	--	--	--	--	--
▲	G-134	76.5	SANDY LEAN CLAY (CL)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-134	45.5	1.98	0.050	0.021	0.002	0.0	21.7	78.3
●	G-134	55.5	4.75	0.038	0.003	--	0.0	27.6	72.4
△	G-134	60.5	1.98	0.004	--	--	0.0	5.8	94.2
▲	G-134	76.5	4.75	0.045	0.003	--	0.0	32.1	67.9

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: JF 6/16/2011
Checked/Date: LT 6/20/2011

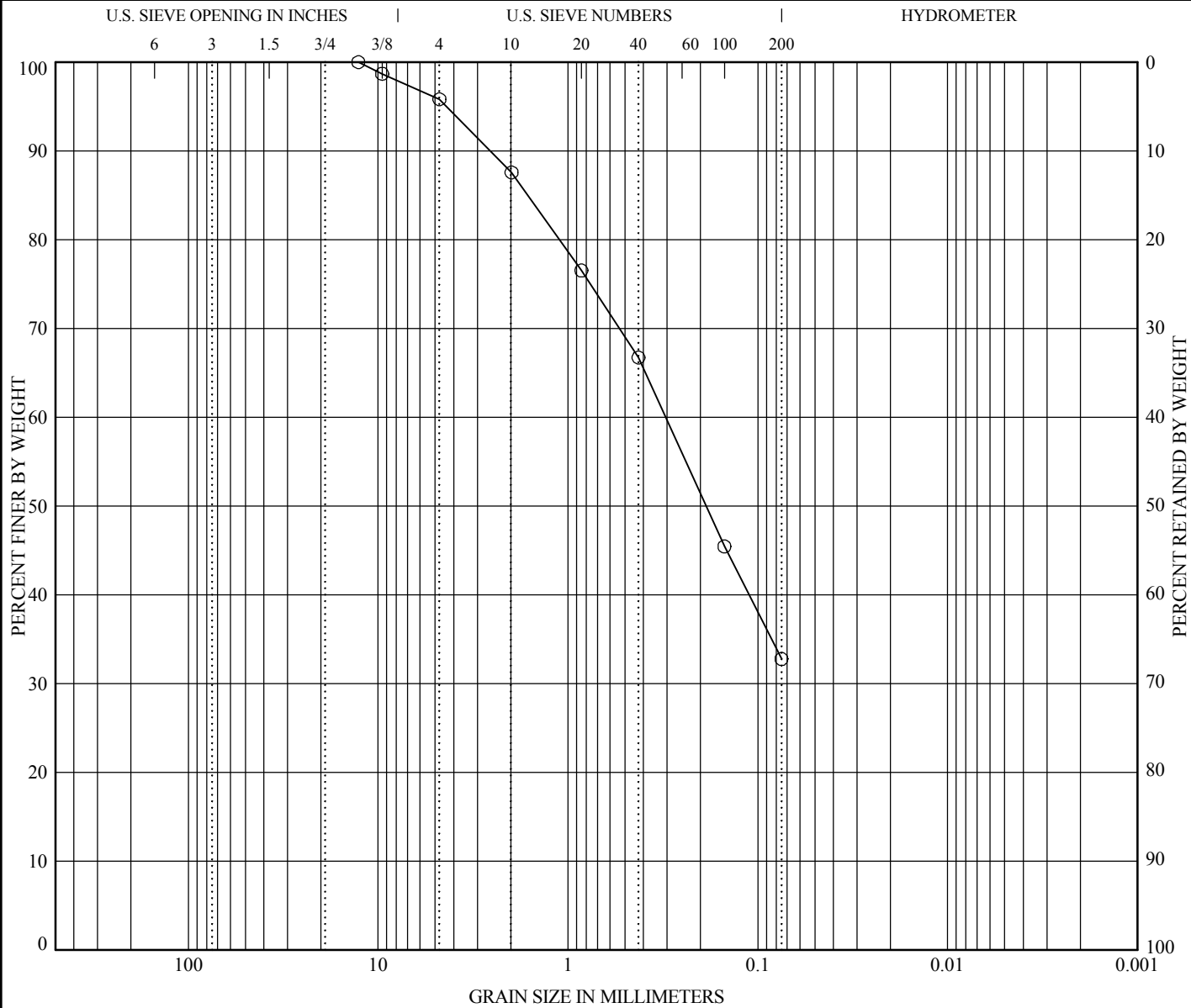
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Figure: F-6.63

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-134	95.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-134	95.5	12.70	0.306	--	--	4.2	63.0	32.8

Laboratory Test Method: ASTM D 422

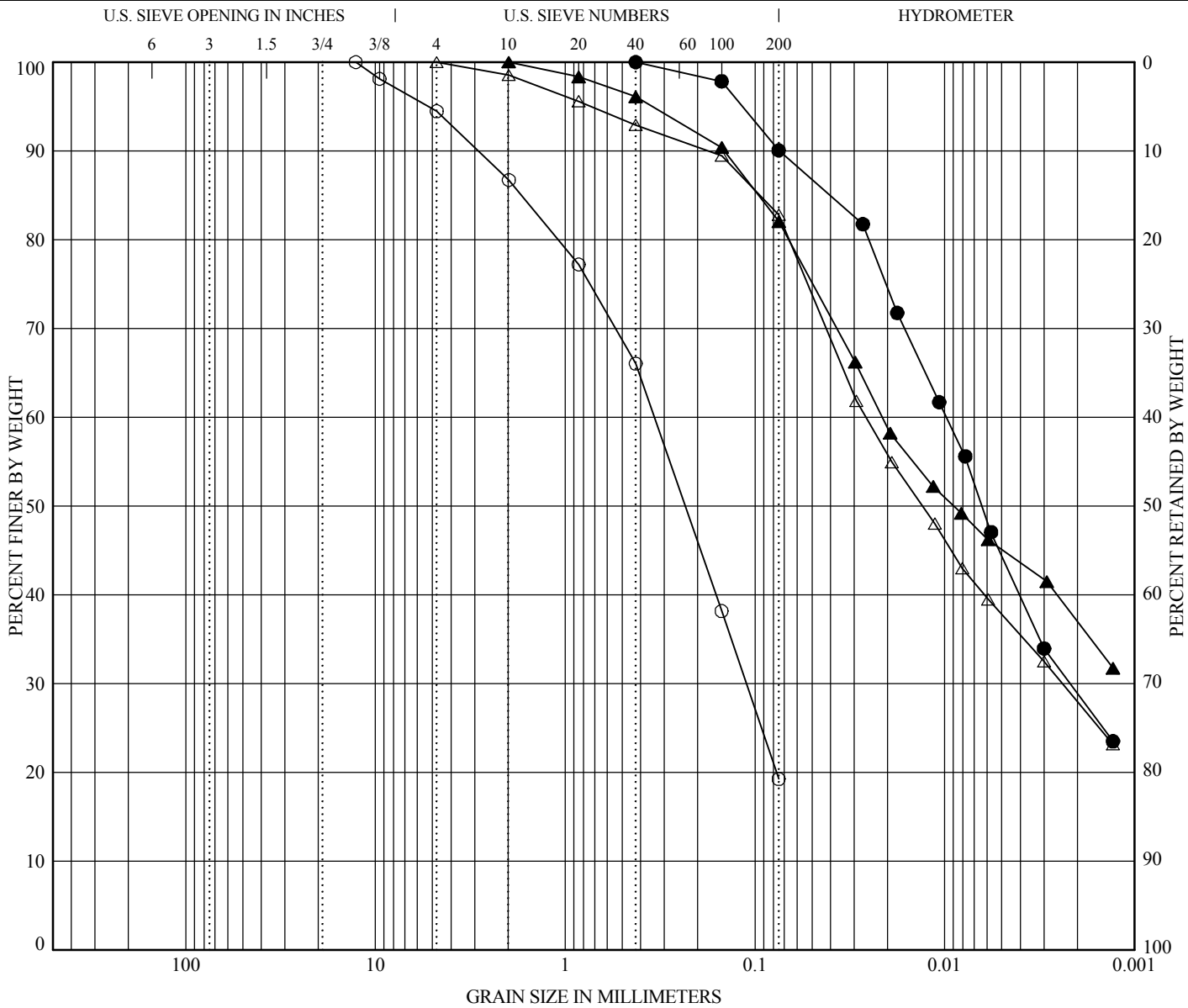
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.64



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-135	19.5	CLAYEY SAND (SC)	--	--	--	--	--
●	G-135	56.0	ELASTIC SILT (MH)	54	30	24	--	--
△	G-135	65.5	FAT CLAY with SAND (CH)	57	29	28	--	--
▲	G-135	74.0	FAT CLAY with SAND (CH)	51	17	34	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-135	19.5	12.70	0.339	0.111	--	5.5	75.2	19.2
●	G-135	56.0	0.43	0.010	0.002	--	0.0	9.9	90.1
△	G-135	65.5	4.75	0.026	0.002	--	0.0	17.2	82.8
▲	G-135	74.0	1.98	0.021	--	--	0.0	18.0	82.0

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: PK 9/9/2011
Checked/Date: LT 9/15/2011

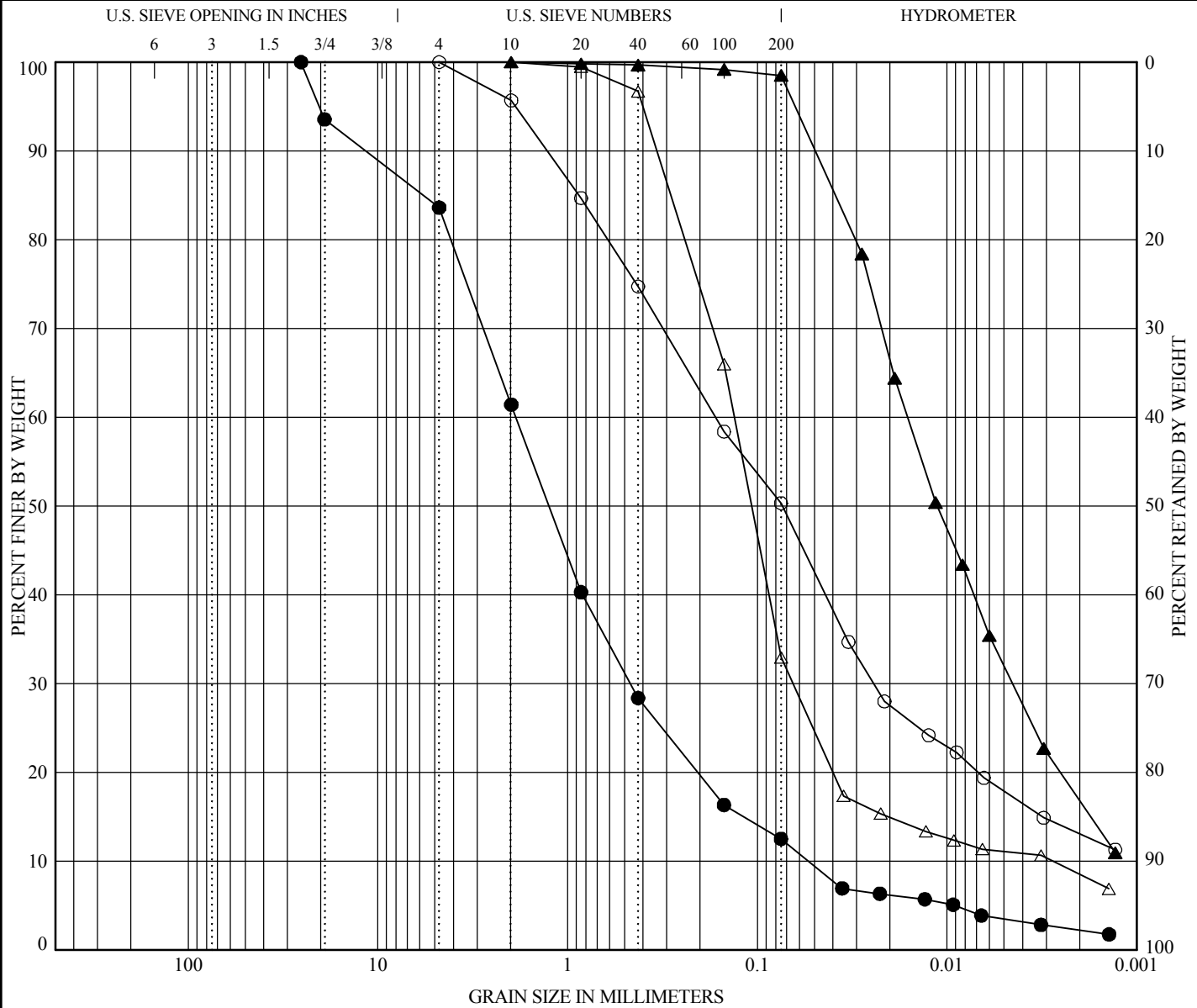
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Figure: F-6.65

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-135	83.5	SANDY LEAN CLAY (CL)	37	21	16	--	--
●	G-135	92.0	SILTY SAND with GRAVEL (SM)	--	--	--	2.2	34.8
△	G-135	98.0	SILTY SAND (SM)	--	--	--	11.5	47.7
▲	G-135	110.0	ELASTIC SILT (MH)	66	36	30	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-135	83.5	4.75	0.166	0.024	--	0.0	49.7	50.3
●	G-135	92.0	25.40	1.870	0.467	0.054	16.4	71.1	12.5
△	G-135	98.0	1.98	0.132	0.065	0.003	0.0	67.1	32.9
▲	G-135	110.0	1.98	0.016	0.005	--	0.0	1.5	98.5

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

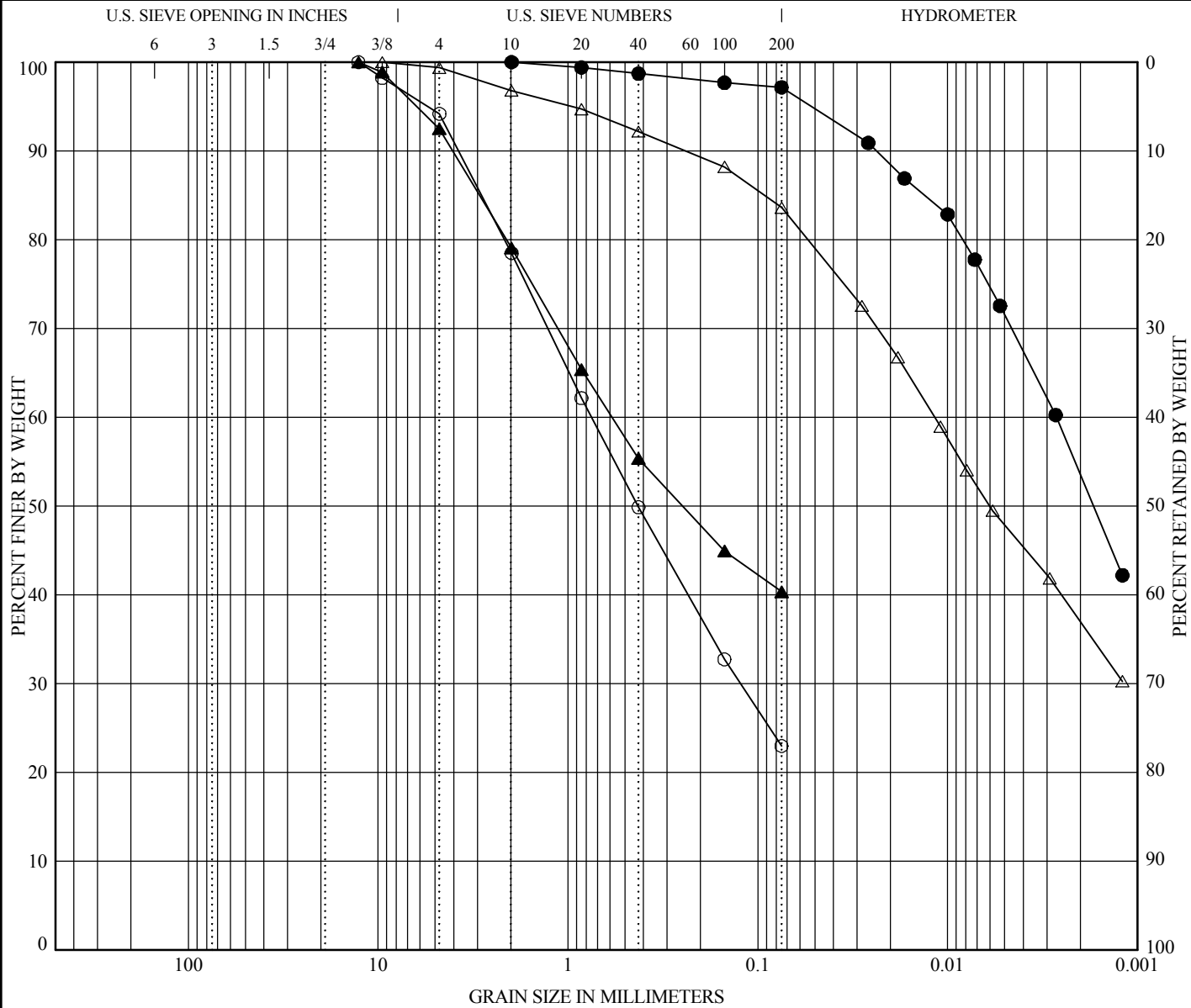
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 Figure: F-6.66

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-136	35.5	CLAYEY SAND (SC)	--	--	--	--	--
●	G-136	65.5	FAT CLAY (CH)	71	24	47	--	--
△	G-136	75.5	LEAN CLAY with SAND (CL)	43	15	28	--	--
▲	G-136	90.5	CLAYEY SAND (SC)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-136	35.5	12.70	0.753	0.124	--	5.8	71.2	23.0
●	G-136	65.5	1.98	0.003	--	--	0.0	2.8	97.2
△	G-136	75.5	9.52	0.012	--	--	0.6	15.8	83.6
▲	G-136	90.5	12.70	0.586	--	--	7.5	52.1	40.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

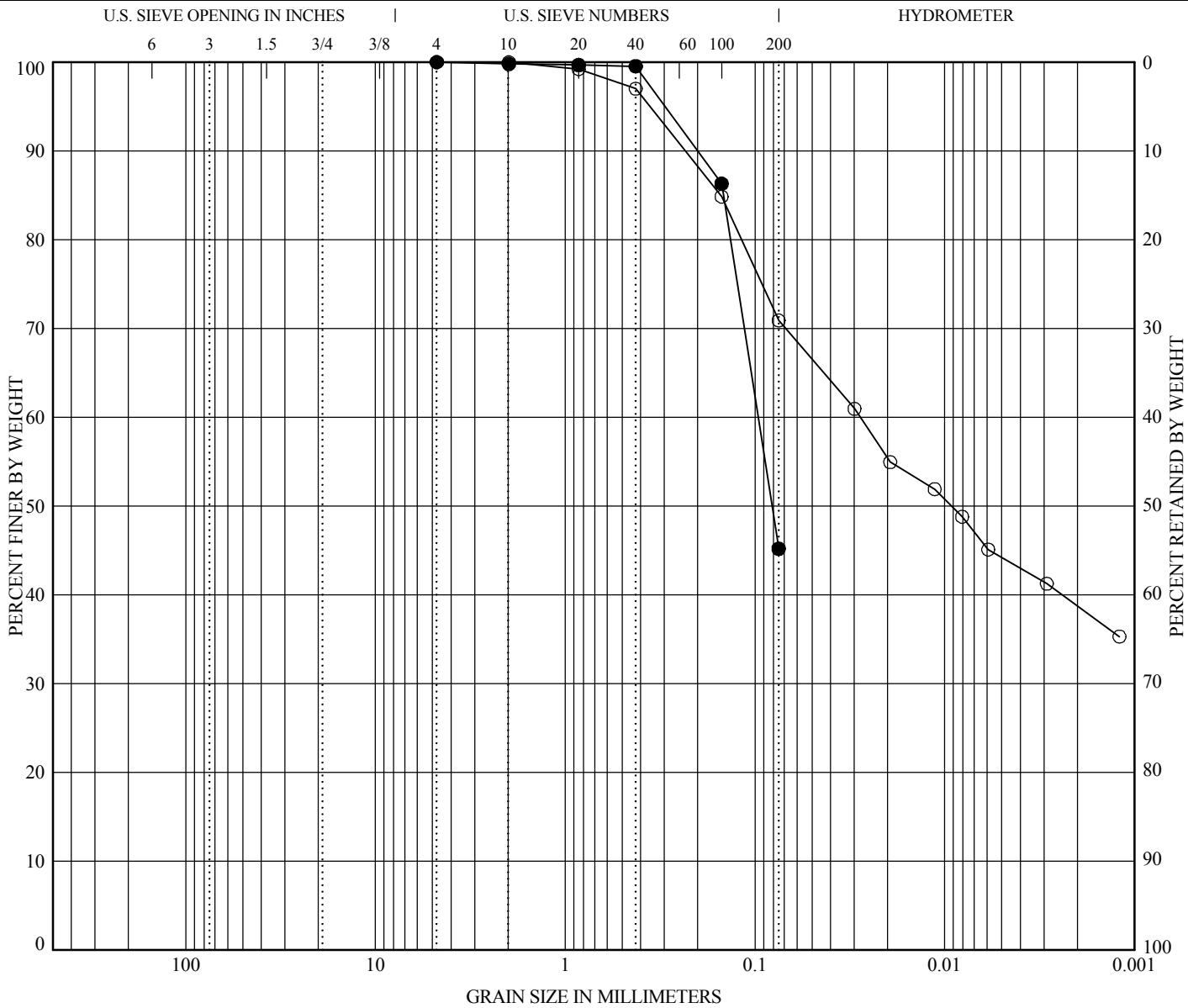
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 Figure: F-6.67

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-136	95.5	LEAN CLAY with SAND (CL)	--	--	--	--	--
●	G-136	100.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-136	95.5	1.98	0.028	--	--	0.0	29.1	70.9
●	G-136	100.5	4.75	0.096	--	--	0.0	54.8	45.2

Laboratory Test Method: ASTM D 422

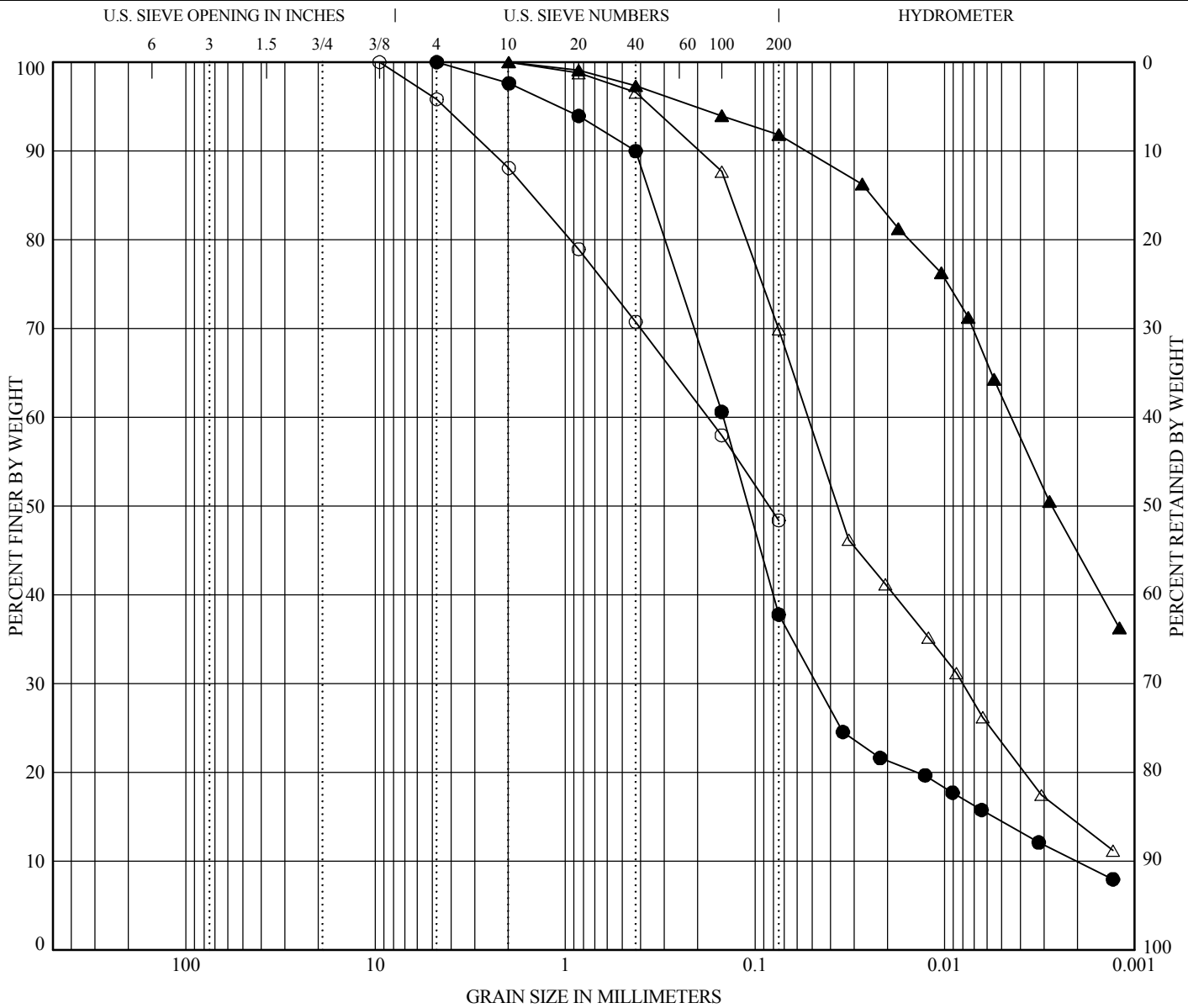
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.68



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-137	49.0	CLAYEY SAND (SC)	32	17	15	--	--
●	G-137	58.5	SILTY SAND (SM)	--	--	--	7.5	72.7
△	G-137	64.5	SANDY FAT CLAY (CH)	57	28	29	--	--
▲	G-137	70.5	FAT CLAY (CH)	69	21	48	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-137	49.0	9.52	0.177	--	--	4.2	47.4	48.4
●	G-137	58.5	4.75	0.147	0.047	0.002	0.0	62.2	37.8
△	G-137	64.5	1.98	0.053	0.008	--	0.0	30.1	69.9
▲	G-137	70.5	1.98	0.004	--	--	0.0	8.2	91.8

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

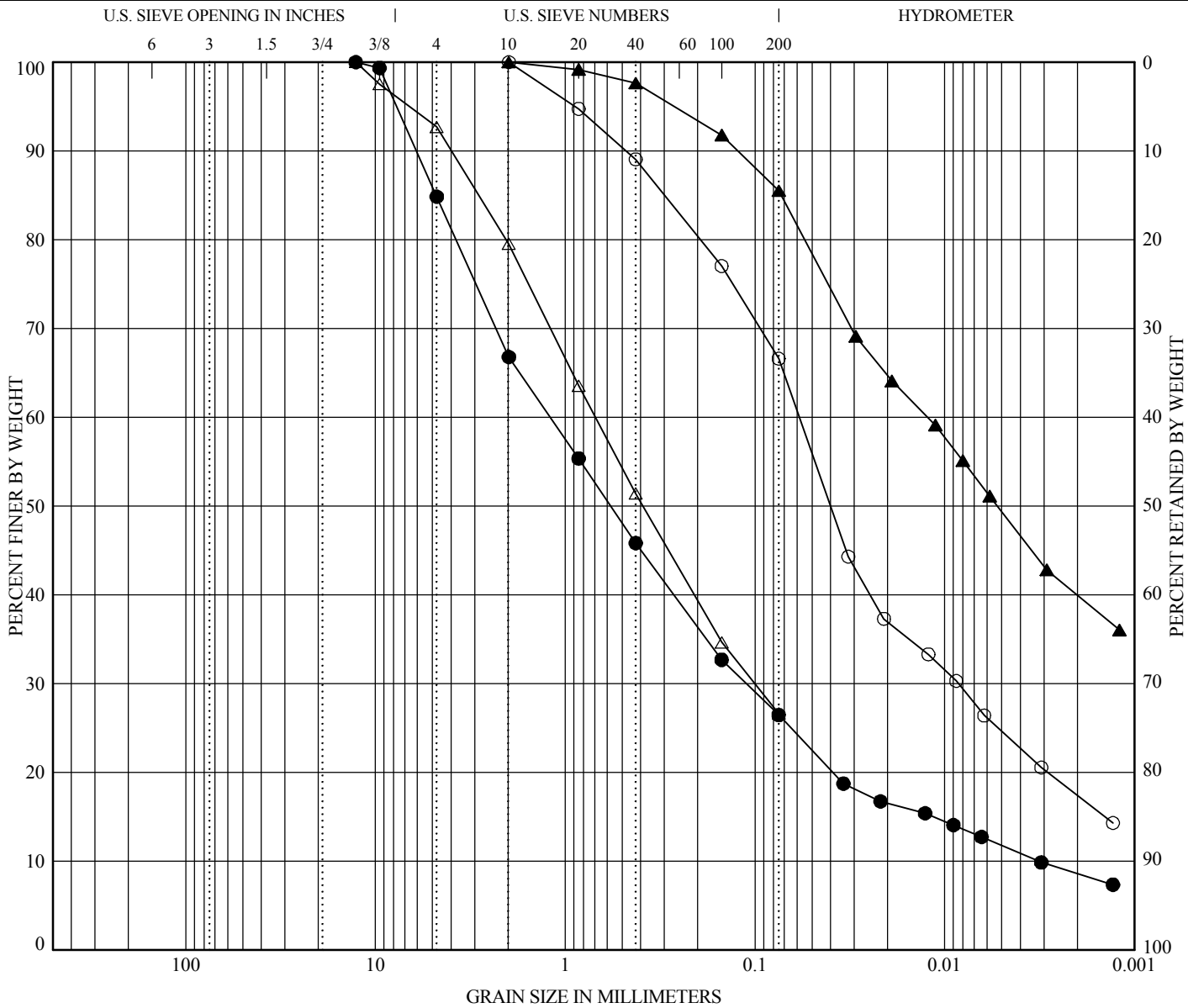
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Figure: F-6.69

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-137	82.5	SANDY LEAN CLAY (CL)	32	17	15	--	--
●	G-137	91.0	CLAYEY SAND with GRAVEL (SC)	29	19	10	3.2	372.5
△	G-137	94.5	SILTY SAND (SM)	--	--	--	--	--
▲	G-137	100.5	FAT CLAY (CH)	58	19	39	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-137	82.5	1.98	0.058	0.008	--	0.0	33.4	66.6
●	G-137	91.0	12.70	1.198	0.111	0.003	15.2	58.4	26.5
△	G-137	94.5	12.70	0.694	0.100	--	7.3	66.1	26.6
▲	G-137	100.5	1.98	0.012	--	--	0.0	14.5	85.5

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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Checked/Date: HP 9/14/11

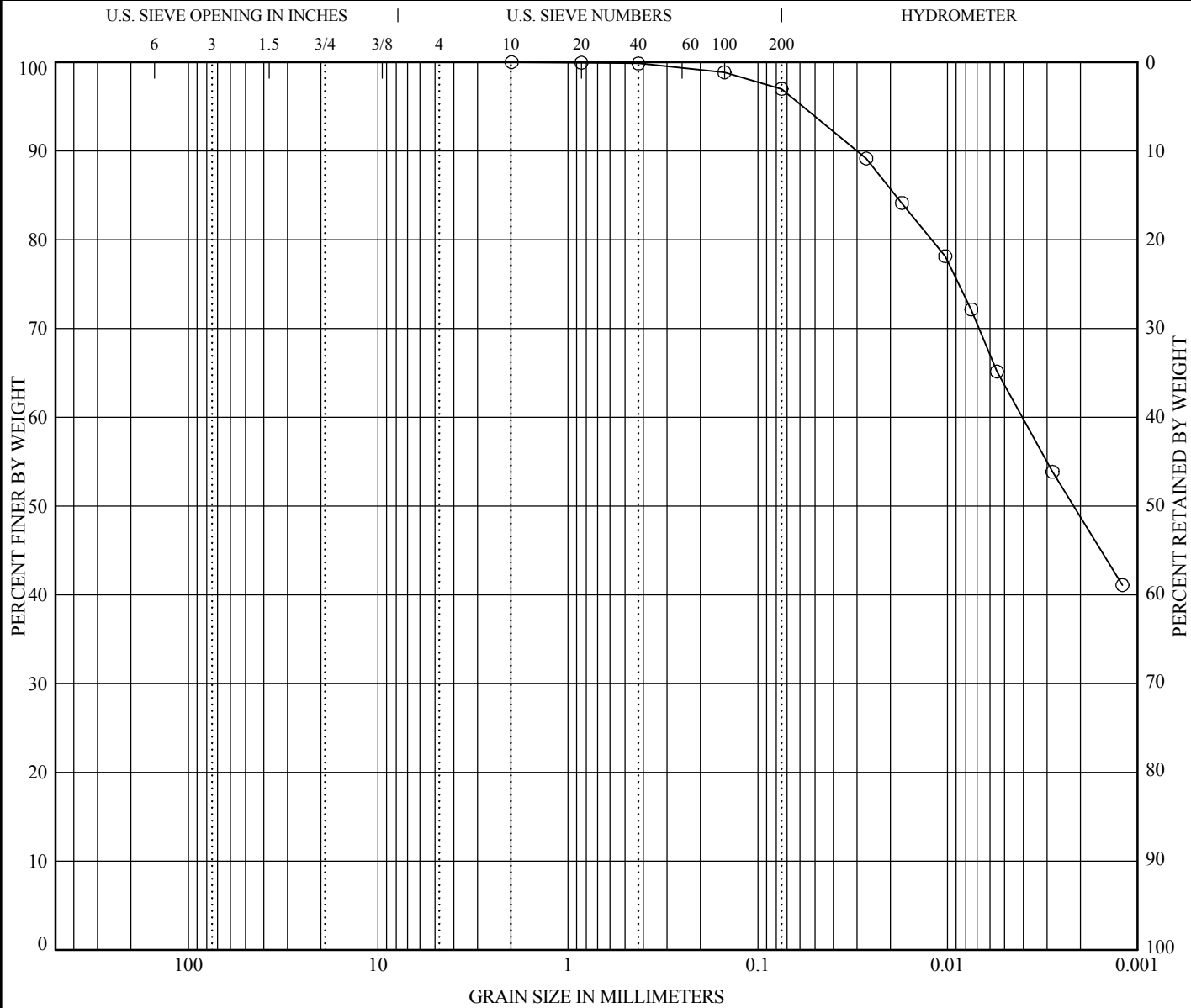
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Figure: F-6.70

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION			LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-137	109.0	FAT CLAY (CH)			84	27	57	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-137	109.0	1.98	0.004	--	--	0.0	3.0	97.0

Laboratory Test Method: ASTM D 422

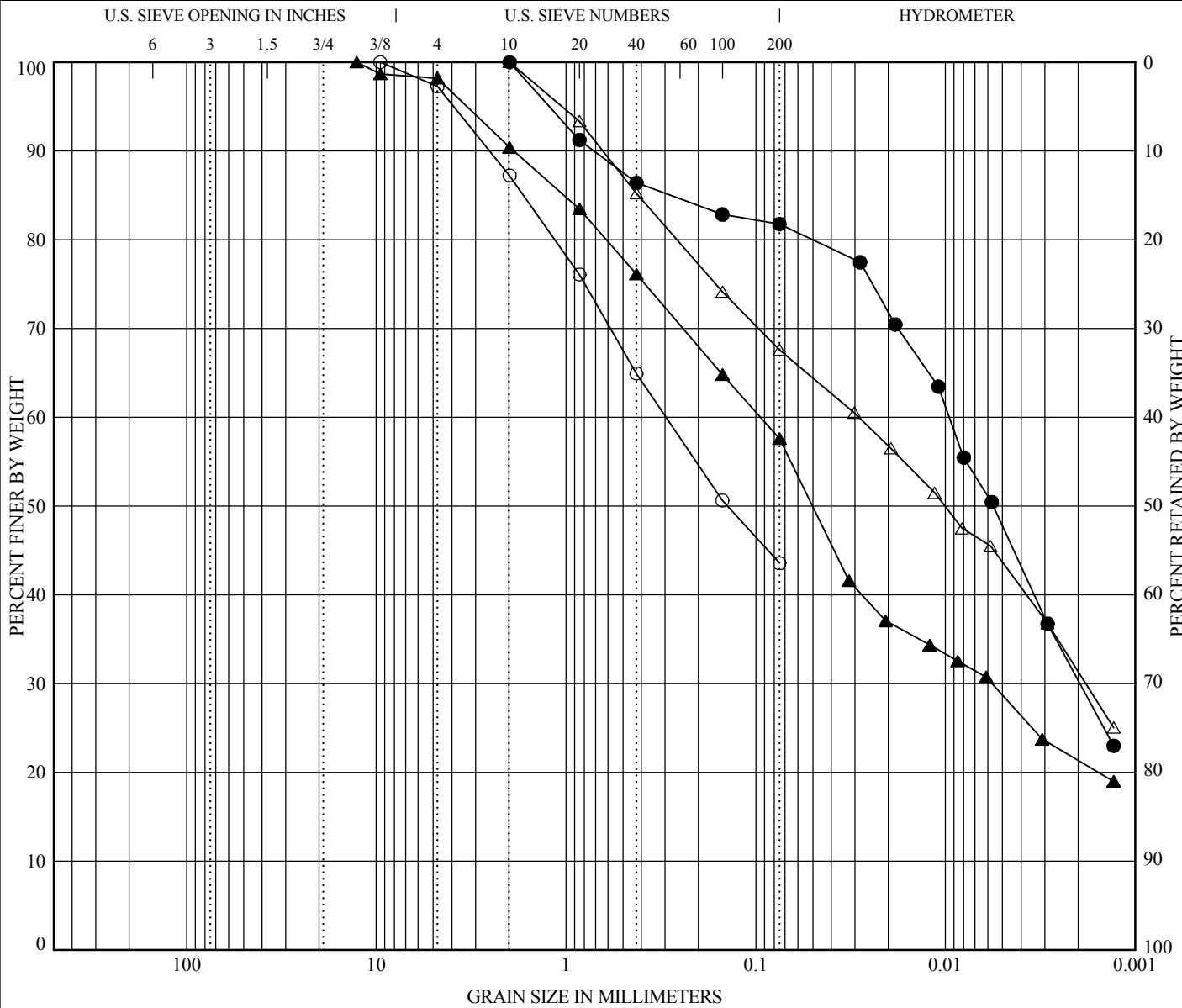
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.71



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-138	30.5	CLAYEY SAND (SC)	33	16	17	--	--
●	G-138	65.5	FAT CLAY with SAND (CH)	63	22	41	--	--
△	G-138	75.5	SANDY LEAN CLAY (CL)	47	21	26	--	--
▲	G-138	85.5	SANDY LEAN CLAY (CL)	36	13	23	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-138	30.5	9.52	0.297	--	--	2.7	53.7	43.6
●	G-138	65.5	1.98	0.010	0.002	--	0.0	18.2	81.8
△	G-138	75.5	1.98	0.029	0.002	--	0.0	32.4	67.6
▲	G-138	85.5	12.70	0.095	0.006	--	1.8	40.6	57.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

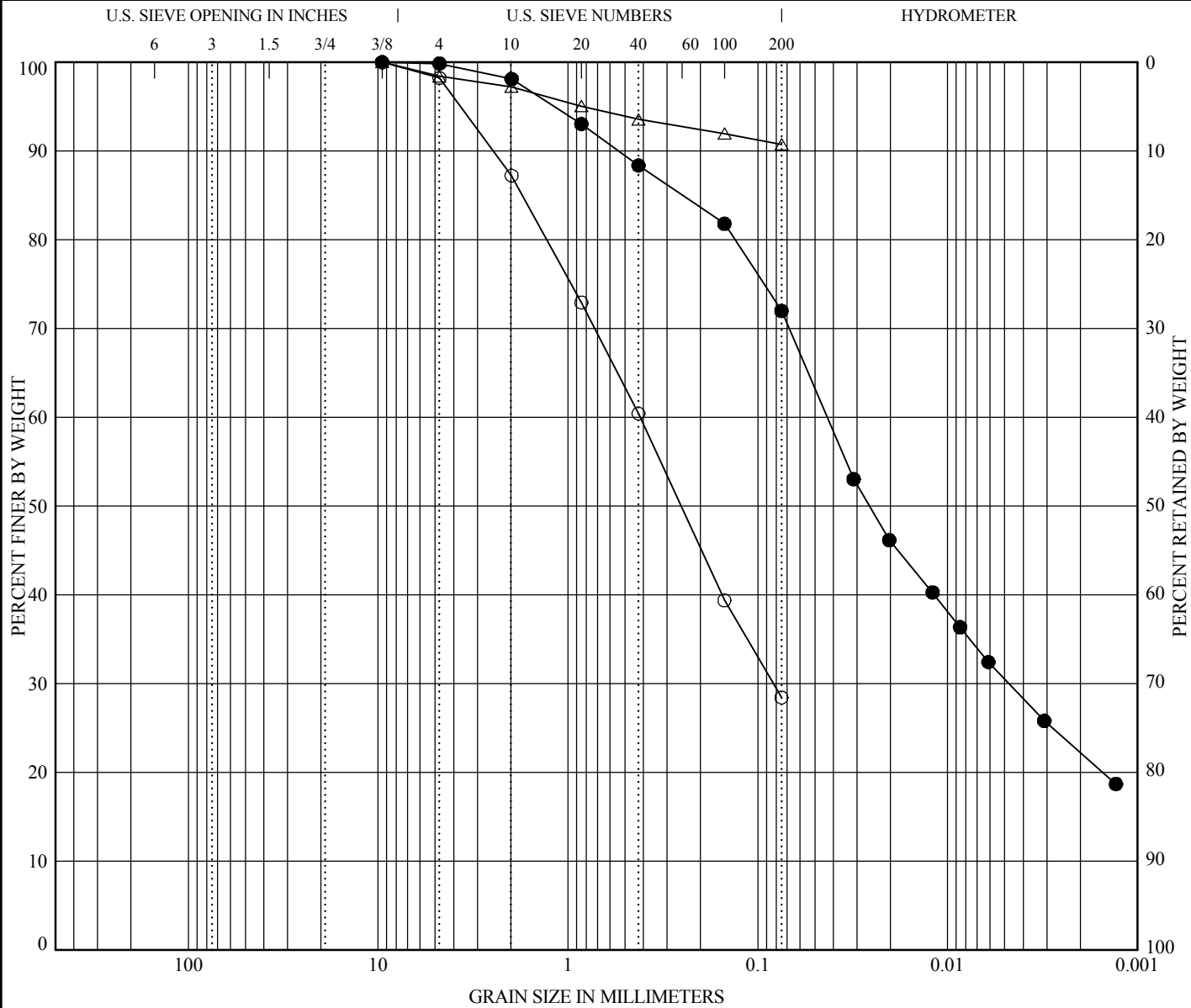
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Figure: F-6.72

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-138	95.5	SILTY SAND (SM)	--	--	--	--	--
●	G-138	100.5	LEAN CLAY with SAND (CL)	38	18	20	--	--
△	G-138	105.5	SILT (ML)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-138	95.5	9.52	0.416	0.083	--	1.8	69.8	28.4
●	G-138	100.5	9.52	0.043	0.005	--	0.2	27.9	72.0
△	G-138	105.5	9.52	--	--	--	1.6	7.6	90.8

Laboratory Test Method: ASTM D 422

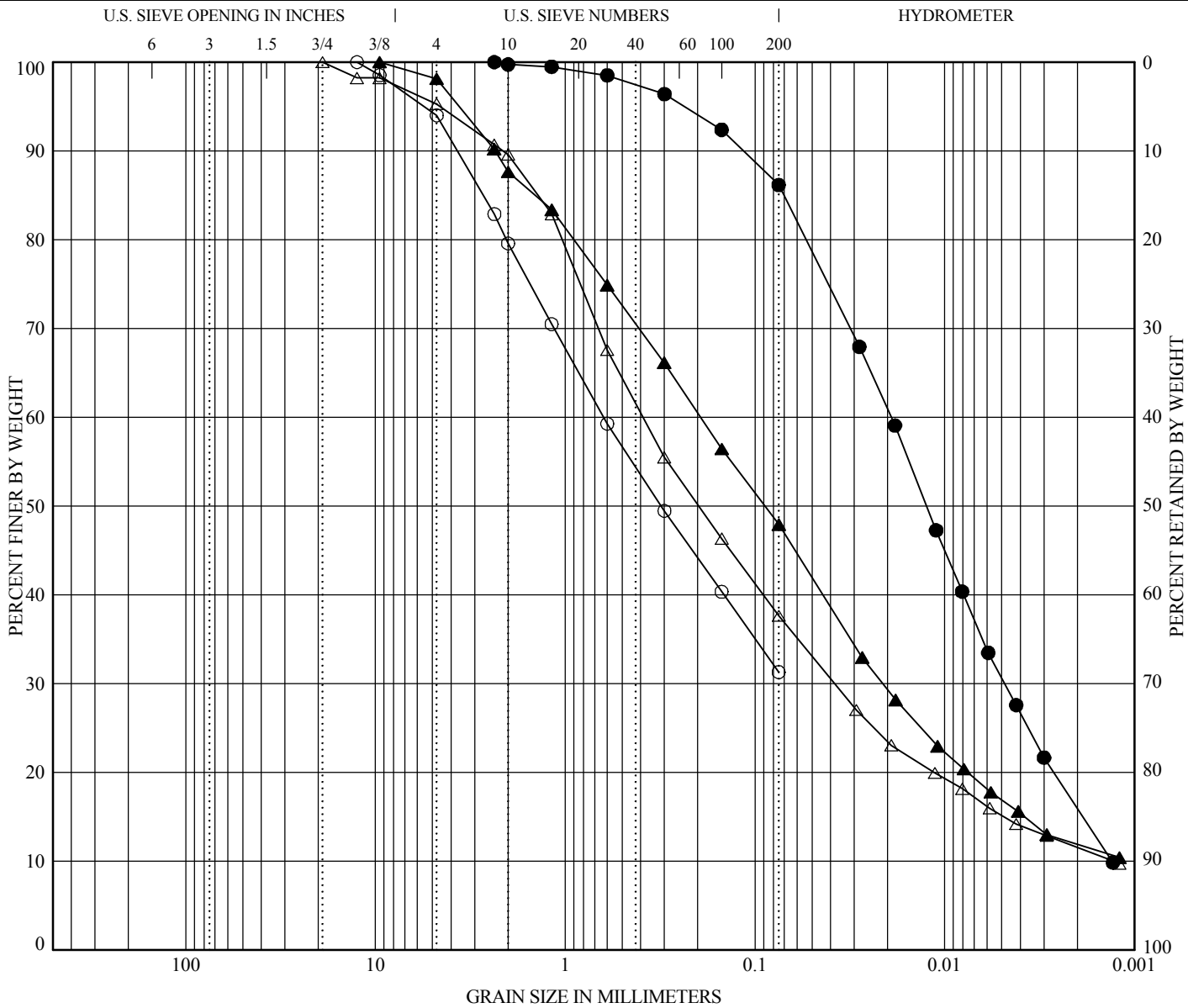
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.73



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-139	50.5	SILTY SAND (SM)	--	--	--	--	--
●	G-139	55.5	LEAN CLAY (CL)	41	15	26	0.9	14.6
△	G-139	75.5	CLAYEY SAND (SC)	30	15	15	2.9	301.4
▲	G-139	85.5	CLAYEY SAND (SC)	35	16	19	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-139	50.5	12.50	0.627	--	--	6.0	62.7	31.3
●	G-139	55.5	2.36	0.019	0.005	0.001	0.0	13.8	86.2
△	G-139	75.5	19.00	0.388	0.038	0.001	4.7	57.6	37.6
▲	G-139	85.5	9.50	0.194	0.021	--	1.9	50.2	47.9

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: YN 8/10/2011
Checked/Date: LT 7/28/2011

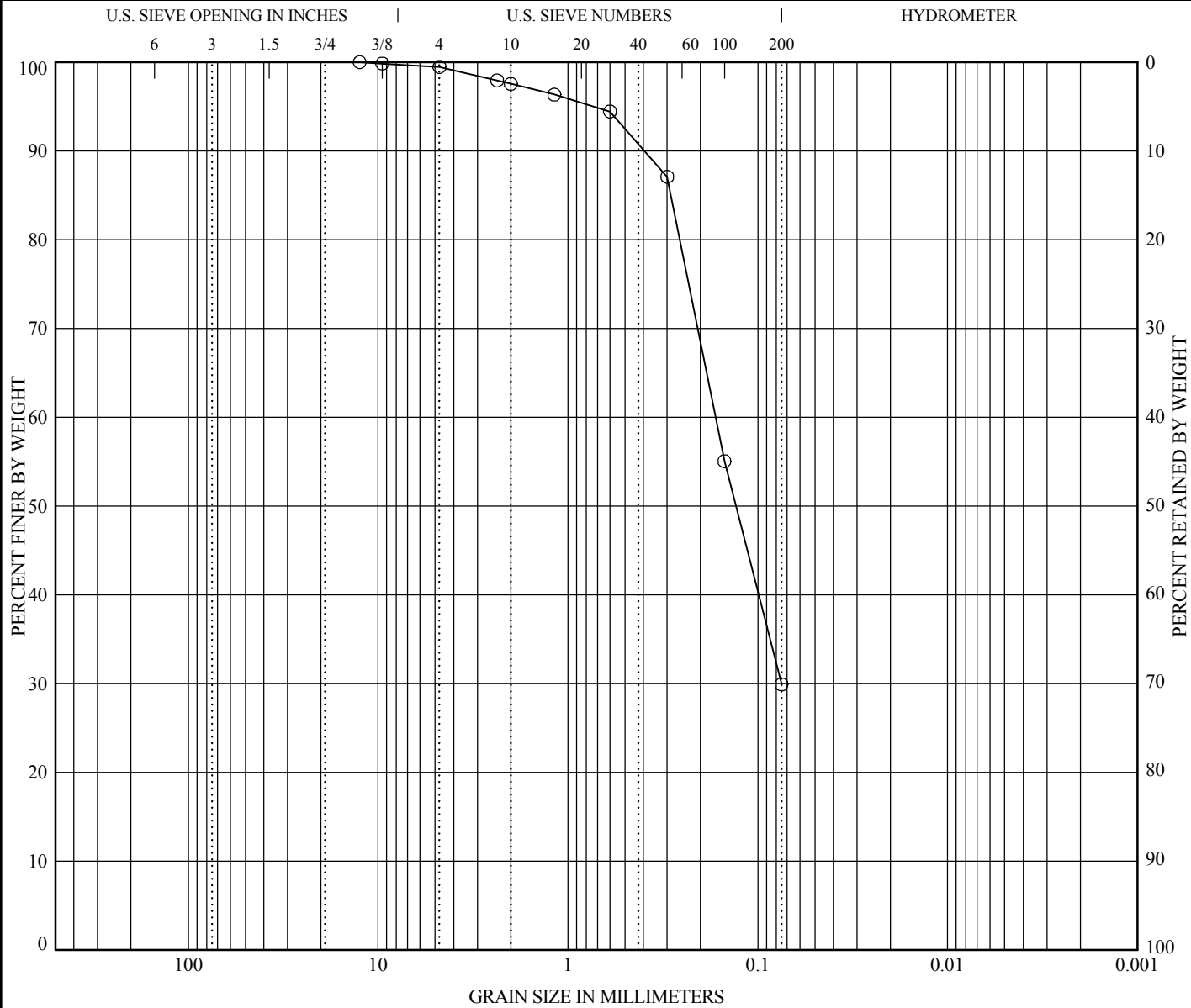
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Figure: F-6.74

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-139	95.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-139	95.5	12.50	0.167	0.075	--	0.5	69.6	29.9

Laboratory Test Method: ASTM D 422

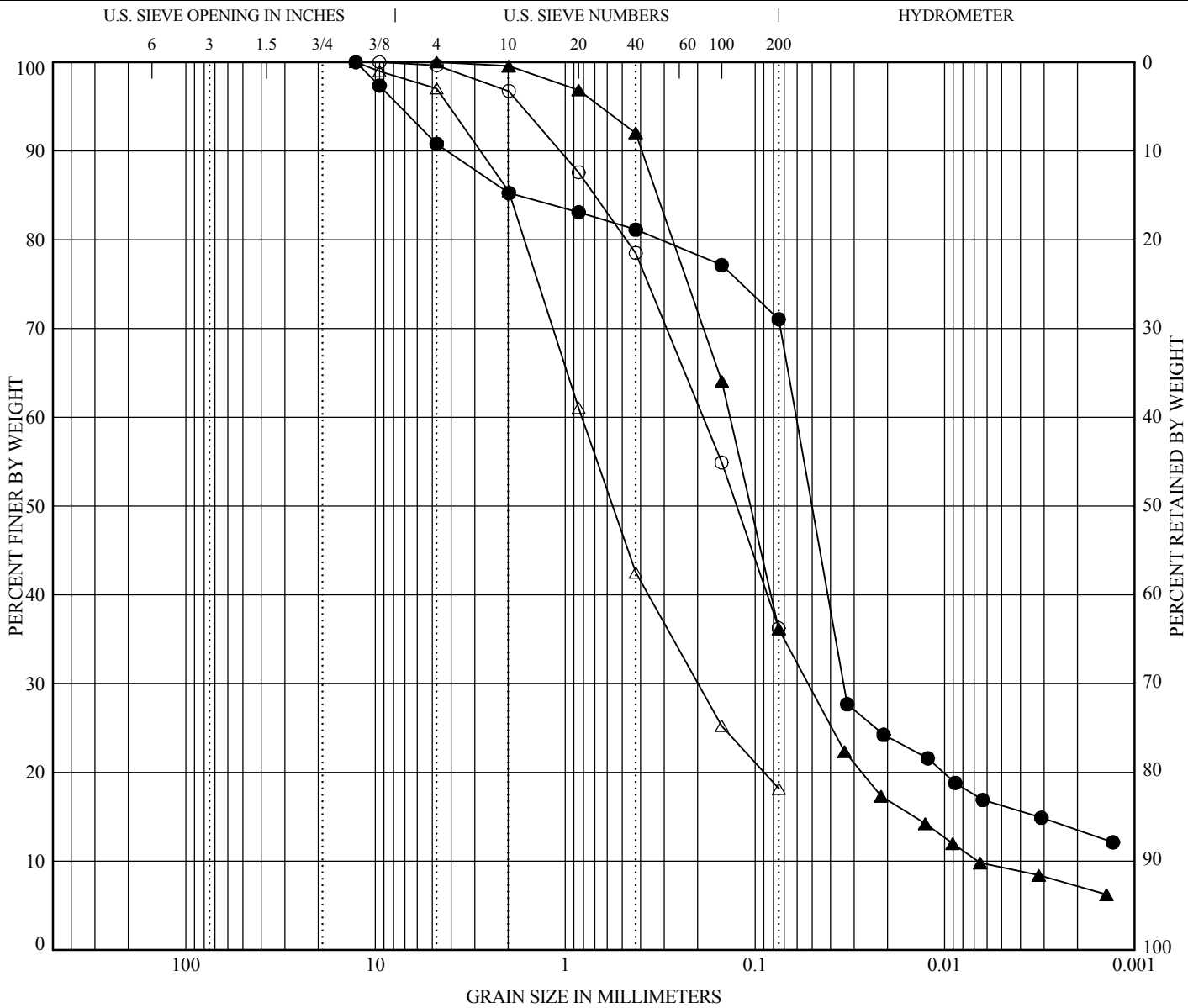
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 Figure: F-6.75



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-140	50.5	SILTY SAND (SM)	--	--	--	--	--
●	G-140	68.5	LEAN CLAY with SAND (CL)	32	20	12	--	--
△	G-140	77.5	SILTY SAND (SM)	--	--	--	--	--
▲	G-140	80.5	SILTY SAND (SM)	NP	NP	NP	3.0	20.2

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-140	50.5	9.52	0.188	--	--	0.4	63.4	36.2
●	G-140	68.5	12.70	0.061	0.034	--	9.2	19.8	71.0
△	G-140	77.5	12.70	0.817	0.200	--	2.9	78.9	18.2
▲	G-140	80.5	4.75	0.136	0.053	0.007	0.0	63.9	36.1

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: JF 6/16/2011
Checked/Date: LT 6/21/2011

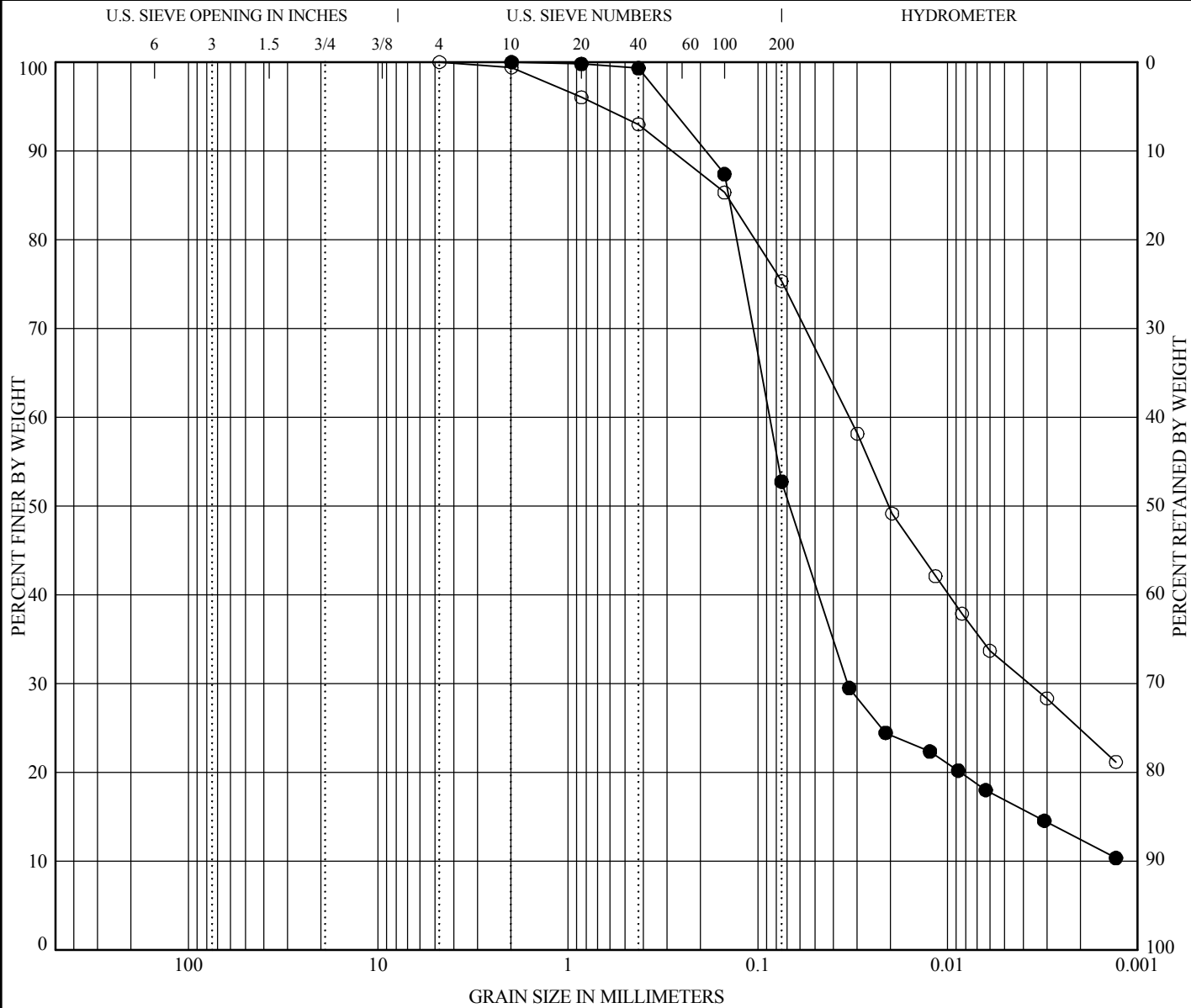
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Project No.: 4953-10-1561
Figure: F-6.76

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-140	89.5	LEAN CLAY with SAND (CL)	42	25	17	--	--
●	G-140	95.5	SANDY SILT (ML)	NP	NP	NP	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-140	89.5	4.75	0.033	0.004	--	0.0	24.7	75.3
●	G-140	95.5	1.98	0.087	0.034	--	0.0	47.3	52.7

Laboratory Test Method: ASTM D 422

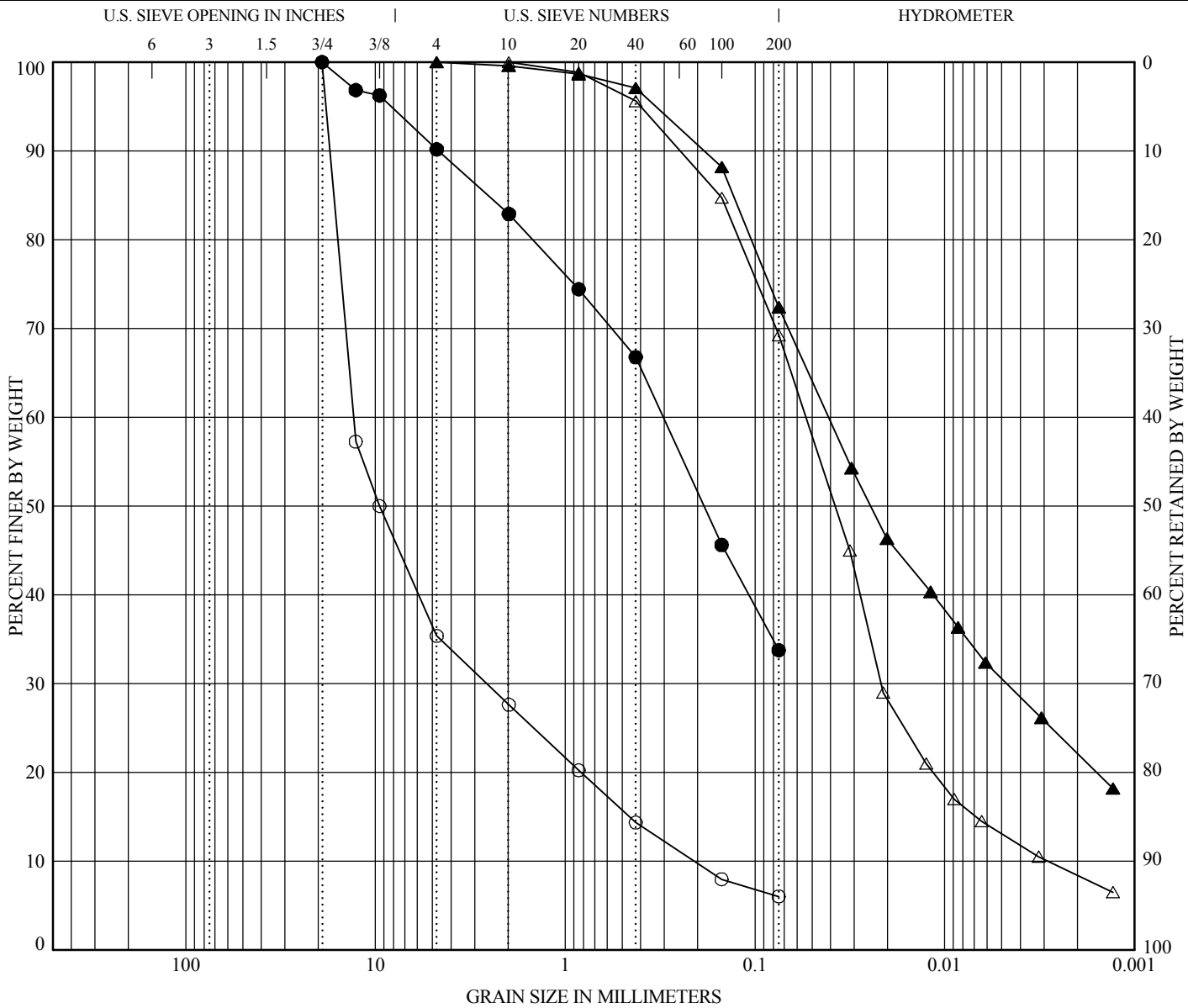
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.77



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-141	20.5	WELL GRADED GRAVEL with SILT and SAND (GW-GM)	--	--	--	2.5	62.3
●	G-141	45.5	SILTY SAND (SM)	--	--	--	--	--
△	G-141	50.5	SANDY SILT (ML)	--	--	--	3.0	18.9
▲	G-141	60.5	LEAN CLAY with SAND (CL)	38	23	15	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-141	20.5	19.10	13.038	2.591	0.209	64.6	29.3	6.0
●	G-141	45.5	19.10	0.305	--	--	9.8	56.4	33.8
△	G-141	50.5	1.98	0.054	0.022	0.003	0.0	30.7	69.3
▲	G-141	60.5	4.75	0.041	0.005	--	0.0	27.6	72.4

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

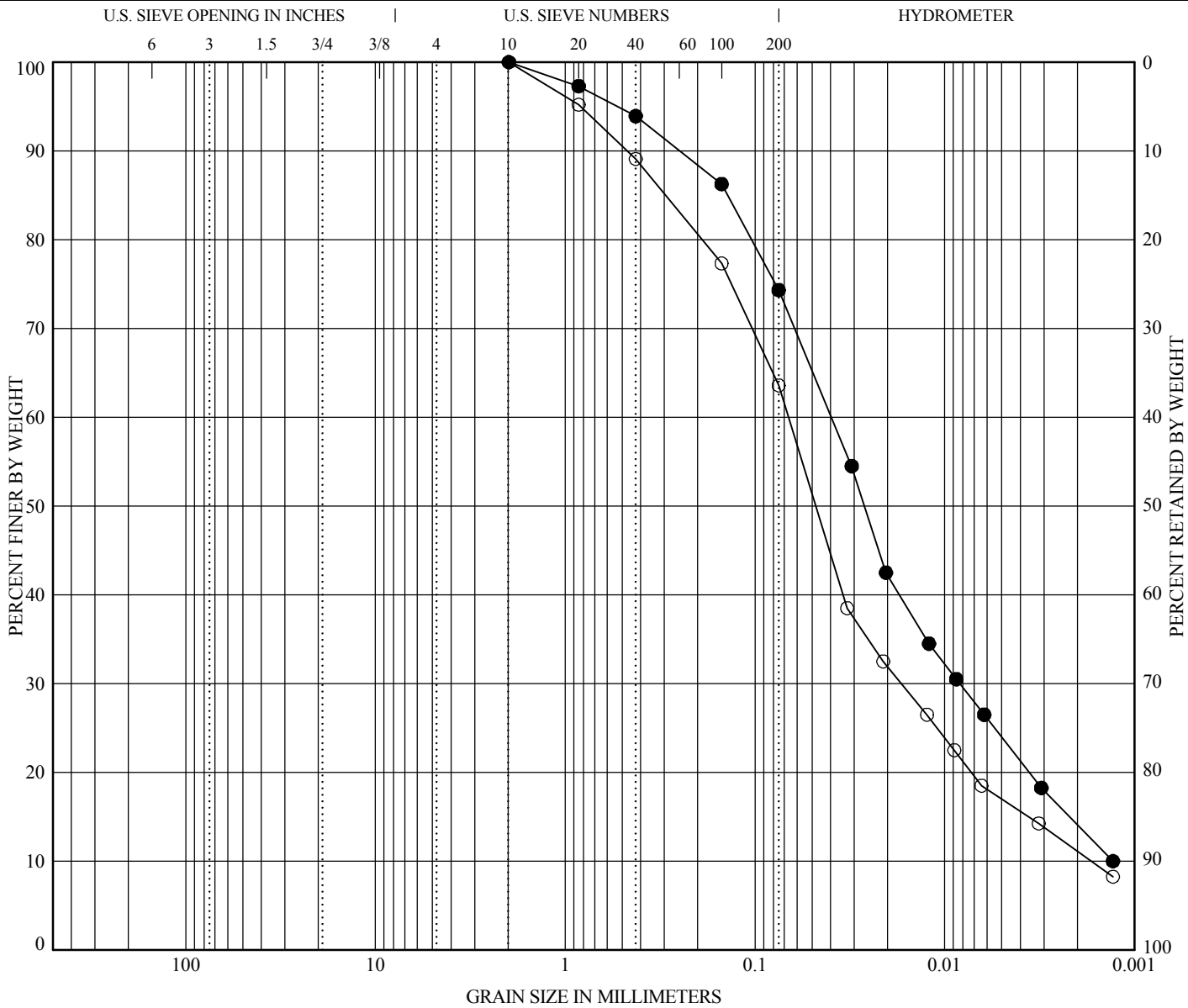
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Figure: F-6.78

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION			LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-141	70.5	SANDY LEAN CLAY (CL)			35	22	13	2.5	39.4
●	G-141	80.5	LEAN CLAY with SAND (CL)			37	20	17	1.4	30.4

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-141	70.5	1.98	0.067	0.017	0.002	0.0	36.4	63.6
●	G-141	80.5	1.98	0.040	0.008	0.001	0.0	25.7	74.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: YN 9/30/2011
Checked/Date: HP 10/2/2011

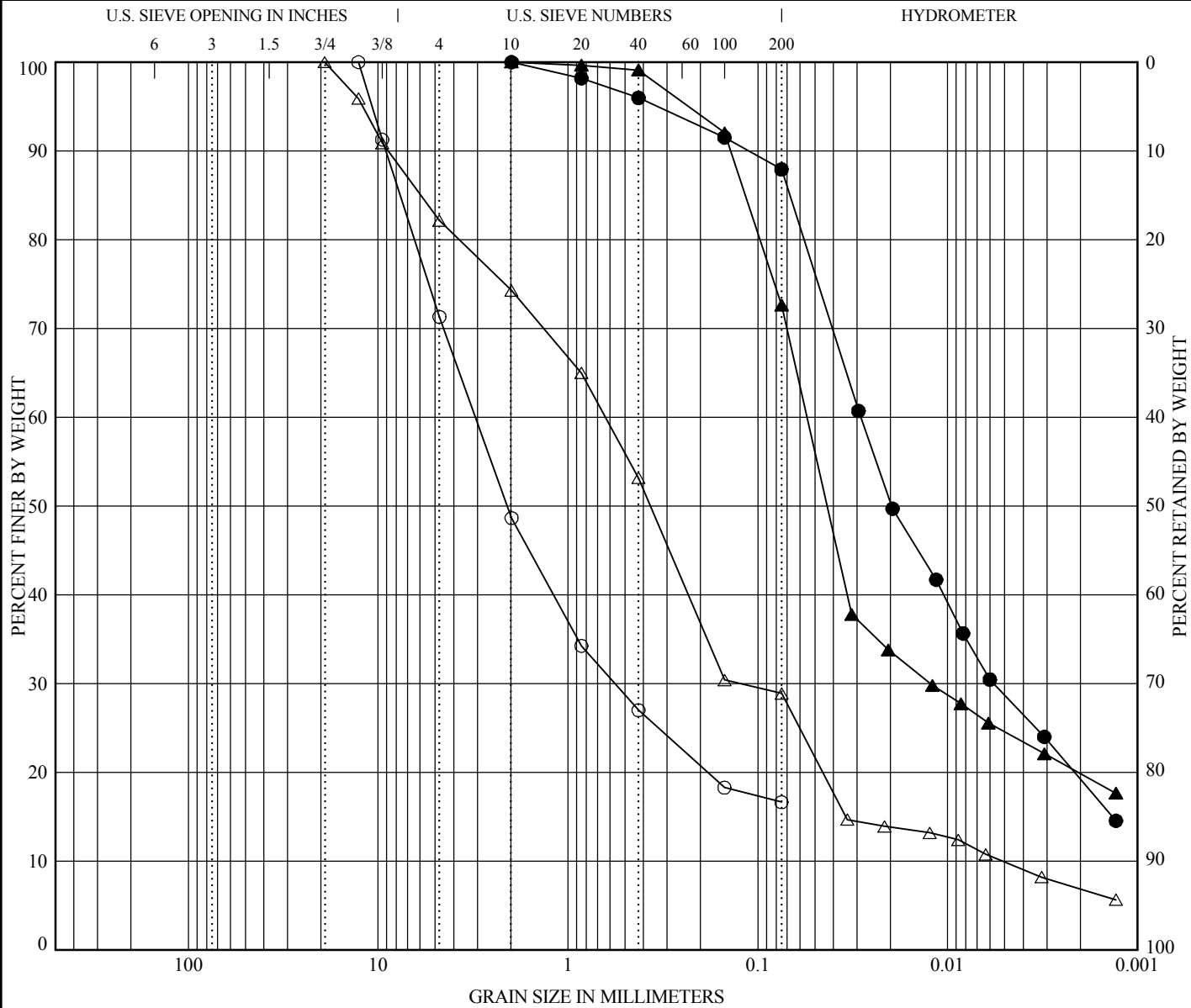
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-142	30.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
●	G-142	45.5	ELASTIC SILT (MH)	54	31	23	--	--
△	G-142	55.5	SILTY SAND with GRAVEL (SM)	NP	NP	NP	4.8	123.6
▲	G-142	65.5	LEAN CLAY with SAND (CL)	48	26	22	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-142	30.5	12.70	3.069	0.566	--	28.7	54.7	16.6
●	G-142	45.5	1.98	0.029	0.006	--	0.0	12.1	87.9
△	G-142	55.5	19.10	0.635	0.125	0.005	17.8	53.3	28.9
▲	G-142	65.5	1.98	0.055	0.012	--	0.0	27.4	72.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

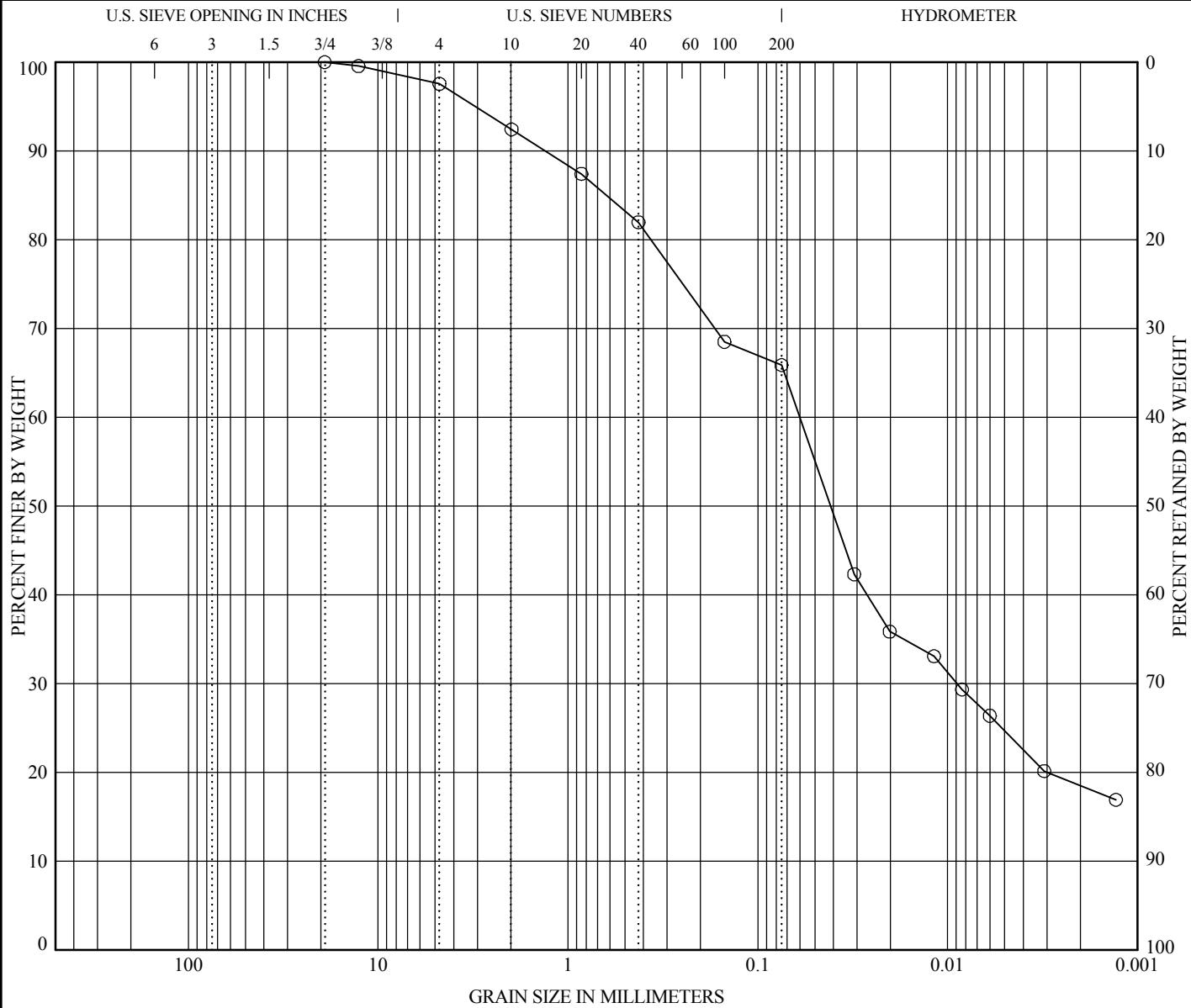
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-142	80.5	SANDY LEAN CLAY (CL)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-142	80.5	19.10	0.060	0.009	--	2.4	31.7	65.9

Laboratory Test Method: ASTM D 422

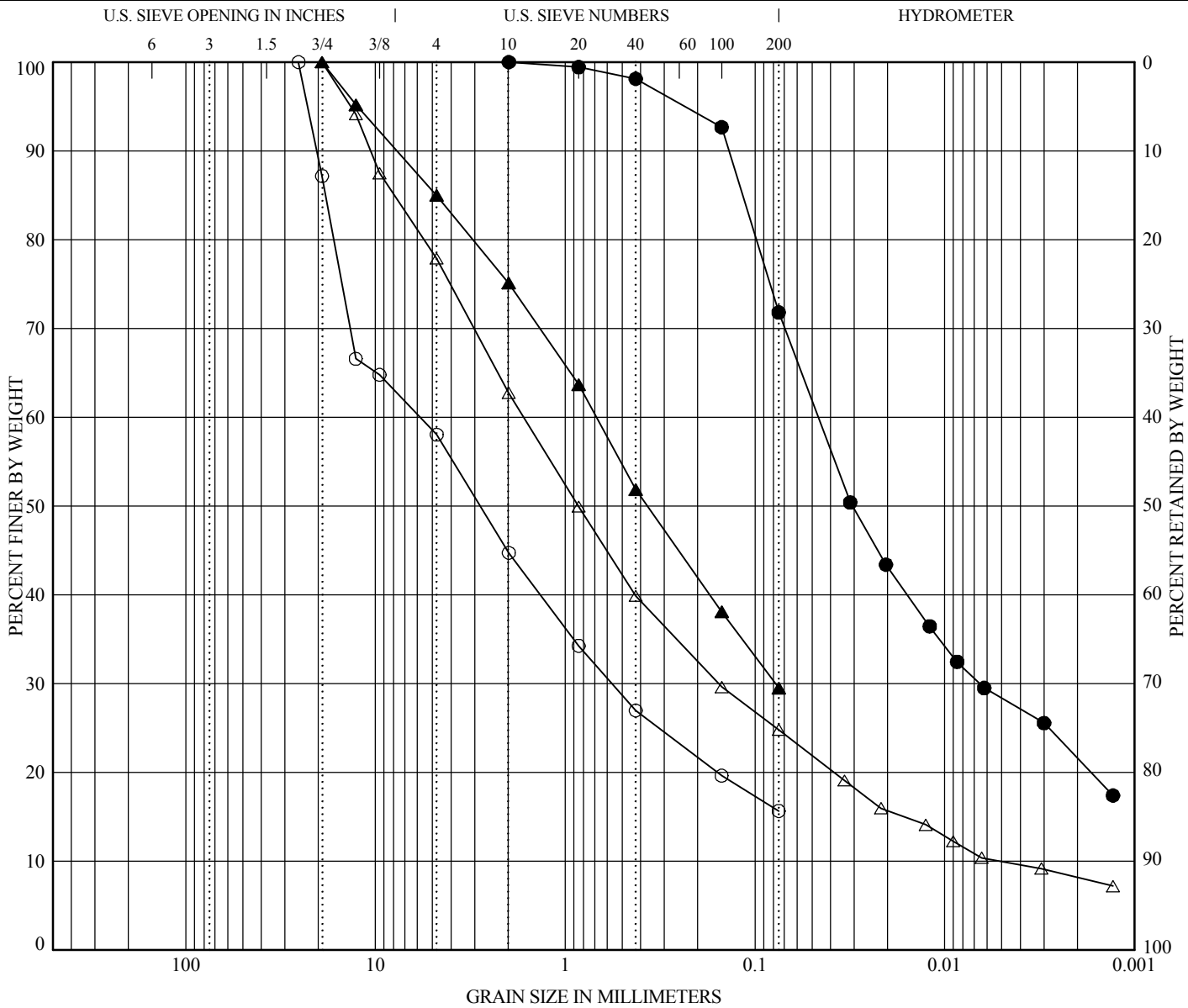
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.81



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-143	35.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
●	G-143	55.5	LEAN CLAY with SAND (CL)	38	22	16	--	--
△	G-143	65.5	CLAYEY SAND with GRAVEL (SC)	39	23	16	2.9	325.7
▲	G-143	70.5	CLAYEY SAND with GRAVEL (SC)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-143	35.5	25.40	5.815	0.567	--	42.0	42.4	15.7
●	G-143	55.5	1.98	0.046	0.007	--	0.0	28.2	71.8
△	G-143	65.5	19.10	1.651	0.156	0.005	22.1	53.1	24.8
▲	G-143	70.5	19.10	0.685	0.078	--	15.0	55.5	29.5

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: LH/YN 9/28/11
Checked/Date: LT/HP 9/15/11

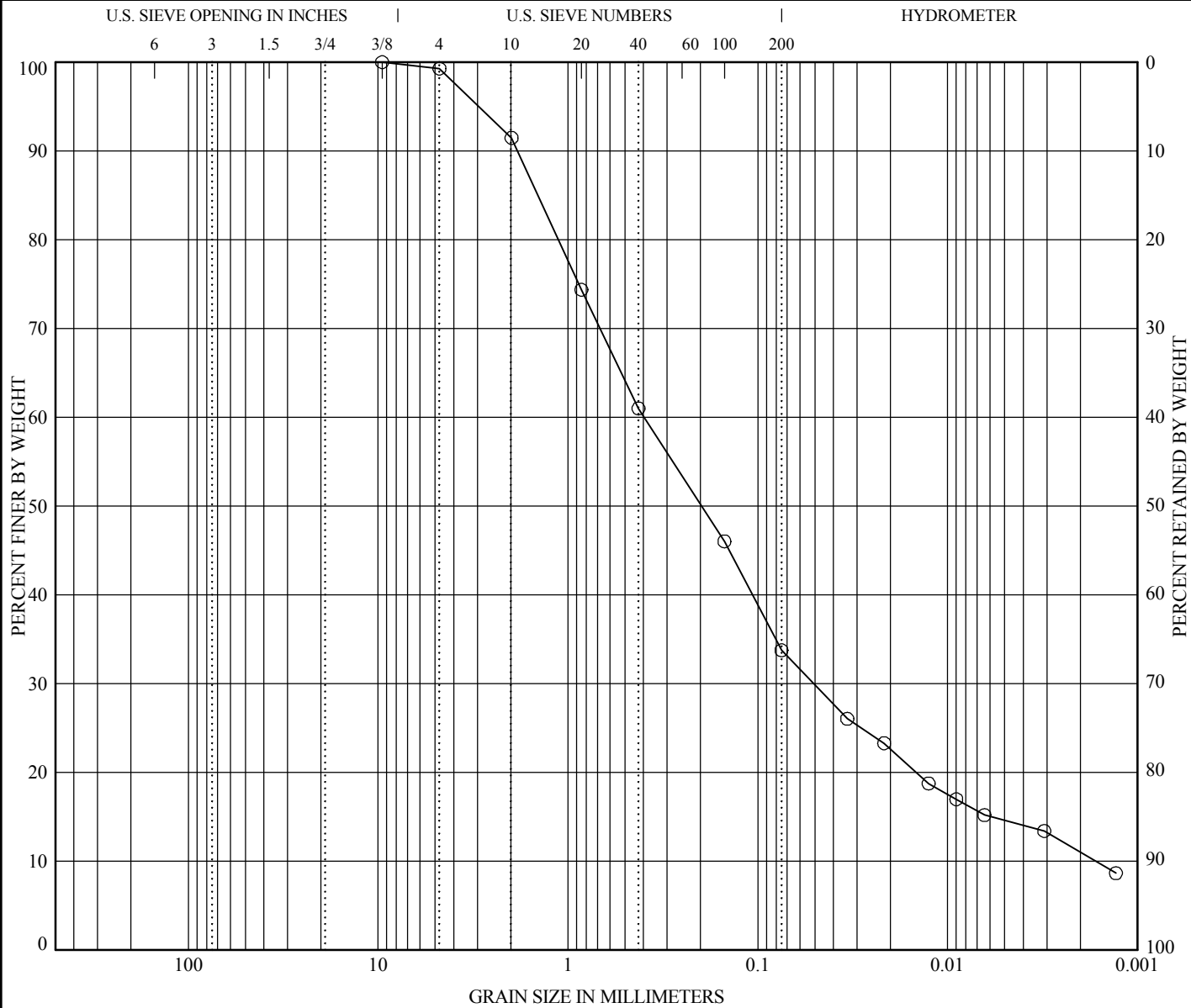
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Figure: F-6.82

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-143	85.5	SILTY SAND (SM)	NP	NP	NP	3.9	238.2

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-143	85.5	9.52	0.396	0.051	0.002	0.7	65.5	33.7

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

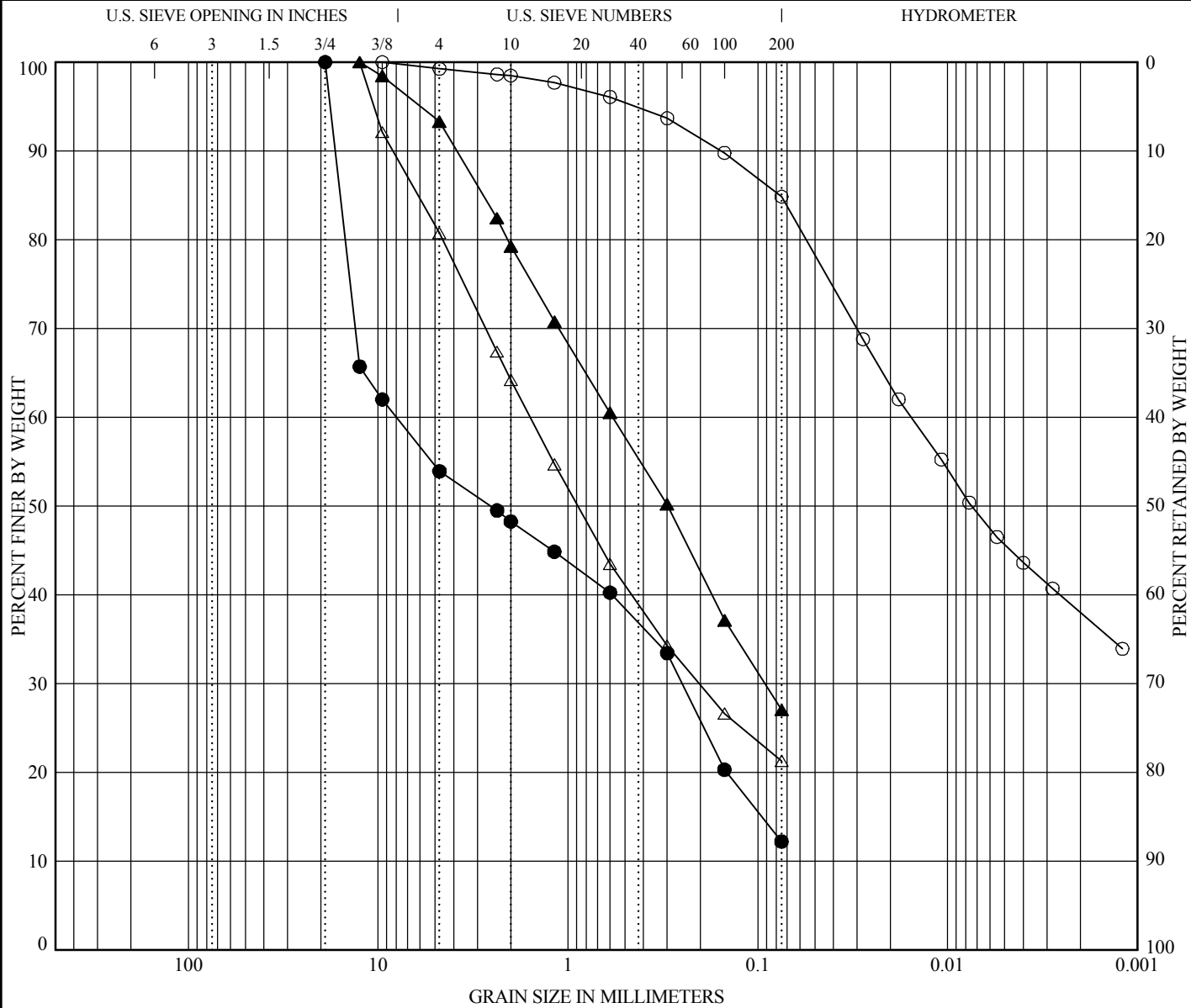
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-144	15.5	FAT CLAY with SAND (CH)	51	17	34	--	--
●	G-144	25.5	CLAYEY GRAVEL with SAND (GC)	27	18	9	0.1	129.0
△	G-144	40.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
▲	G-144	45.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-144	15.5	9.50	0.016	--	--	0.8	14.4	84.9
●	G-144	25.5	19.00	8.002	0.250	--	46.1	41.7	12.2
△	G-144	40.5	12.50	1.583	0.204	--	19.2	59.5	21.3
▲	G-144	45.5	12.50	0.580	0.092	--	6.7	66.3	27.0

Laboratory Test Method: ASTM D 422

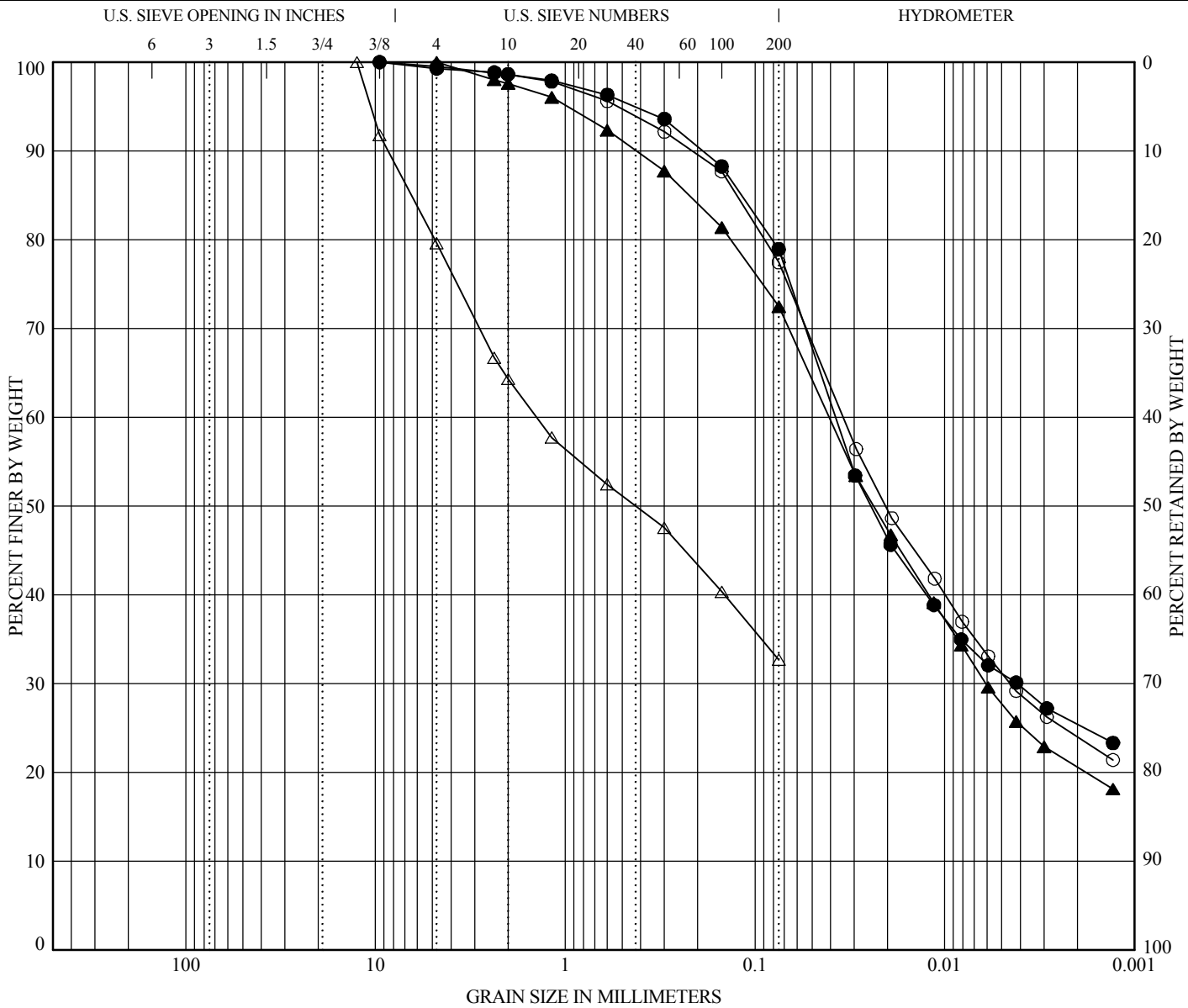
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.84



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-144	65.5	LEAN CLAY with SAND (CL)	38	16	22	--	--
●	G-144	75.5	LEAN CLAY with SAND (CL)	37	15	22	--	--
△	G-144	85.5	CLAYEY SAND with GRAVEL (SC)	--	--	--	--	--
▲	G-144	95.5	LEAN CLAY with SAND (CL)	31	16	15	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-144	65.5	9.50	0.034	0.005	--	0.5	22.1	77.4
●	G-144	75.5	9.50	0.038	0.004	--	0.7	20.3	78.9
△	G-144	85.5	12.50	1.417	--	--	20.4	46.9	32.7
▲	G-144	95.5	4.75	0.041	0.006	--	0.0	27.5	72.5

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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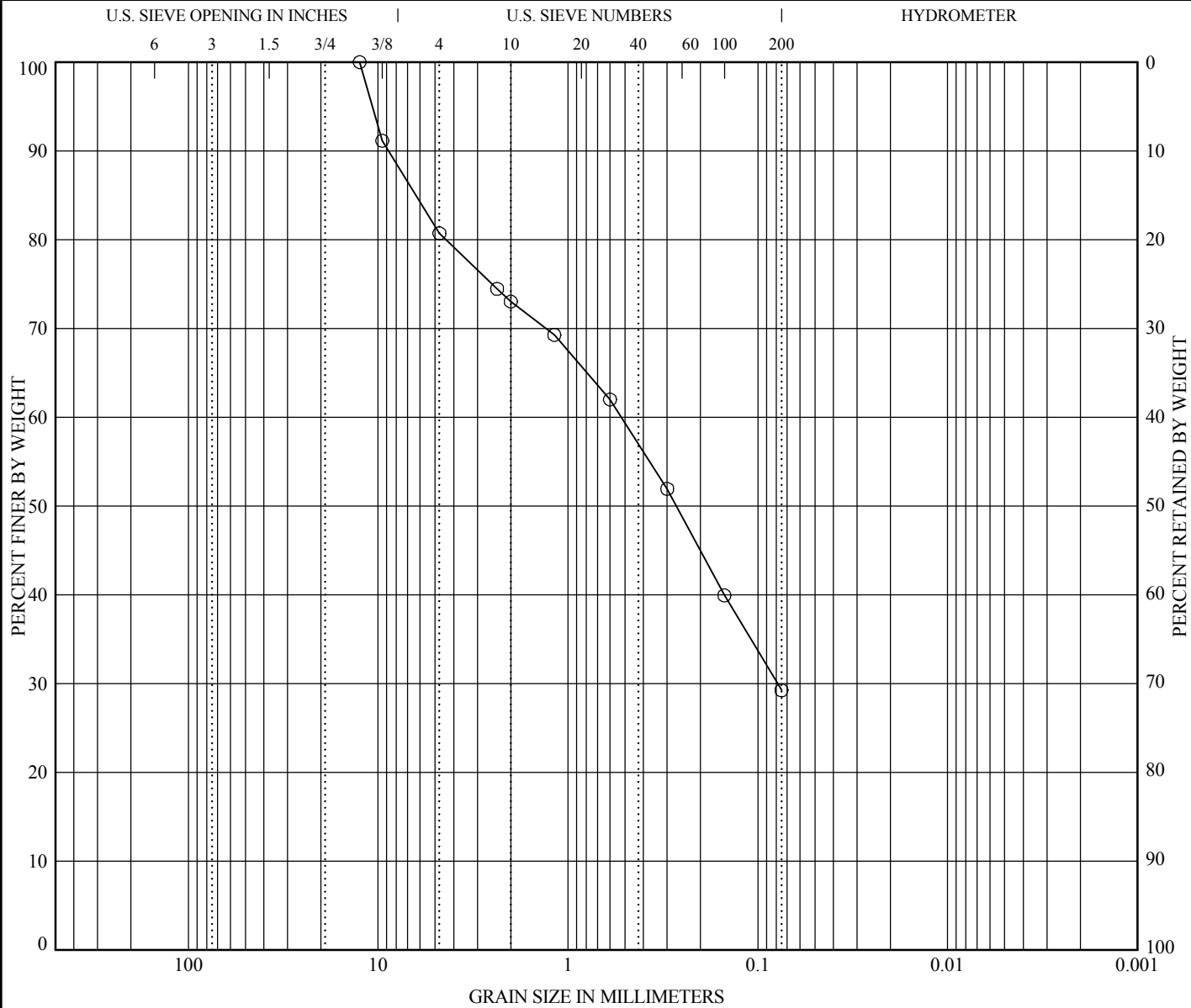
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Figure: F-6.85

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-144	105.5	CLAYEY SAND with GRAVEL (SC)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-144	105.5	12.50	0.523	0.079	--	19.3	51.5	29.3

Laboratory Test Method: ASTM D 422

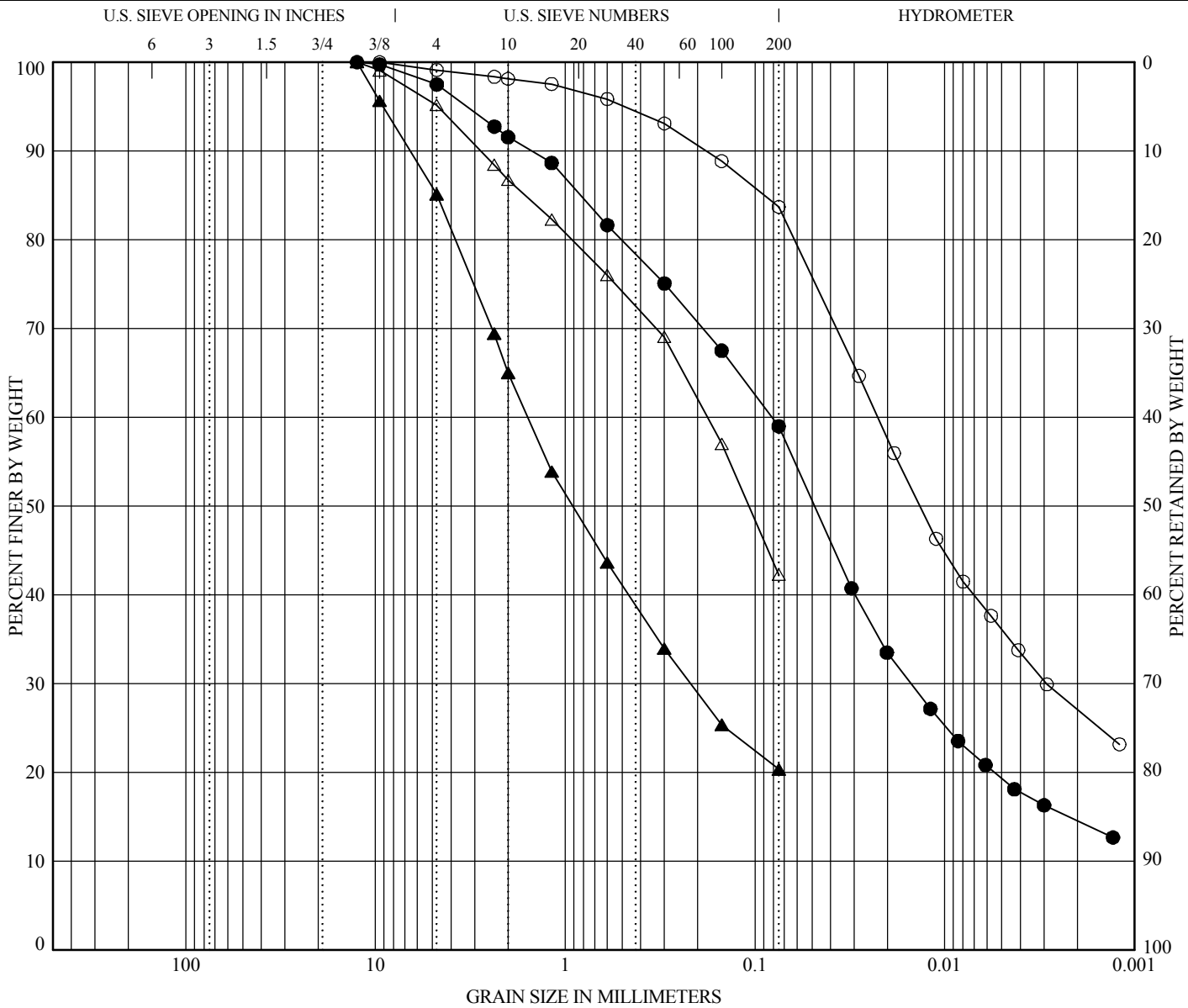
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 Project No.: 4953-10-1561
 Figure: F-6.86



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION			LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-145	10.5	LEAN CLAY with SAND (CL)			47	17	30	--	--
●	G-145	25.5	SANDY LEAN CLAY (CL)			33	15	18	--	--
△	G-145	35.5	SILTY SAND (SM)			--	--	--	--	--
▲	G-145	41.5	SILTY SAND (SM)			--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-145	10.5	9.50	0.023	0.003	--	0.9	15.4	83.7
●	G-145	25.5	12.50	0.081	0.015	--	2.5	38.5	59.0
△	G-145	35.5	12.50	0.178	--	--	4.8	52.9	42.3
▲	G-145	41.5	12.50	1.578	0.218	--	14.9	64.8	20.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

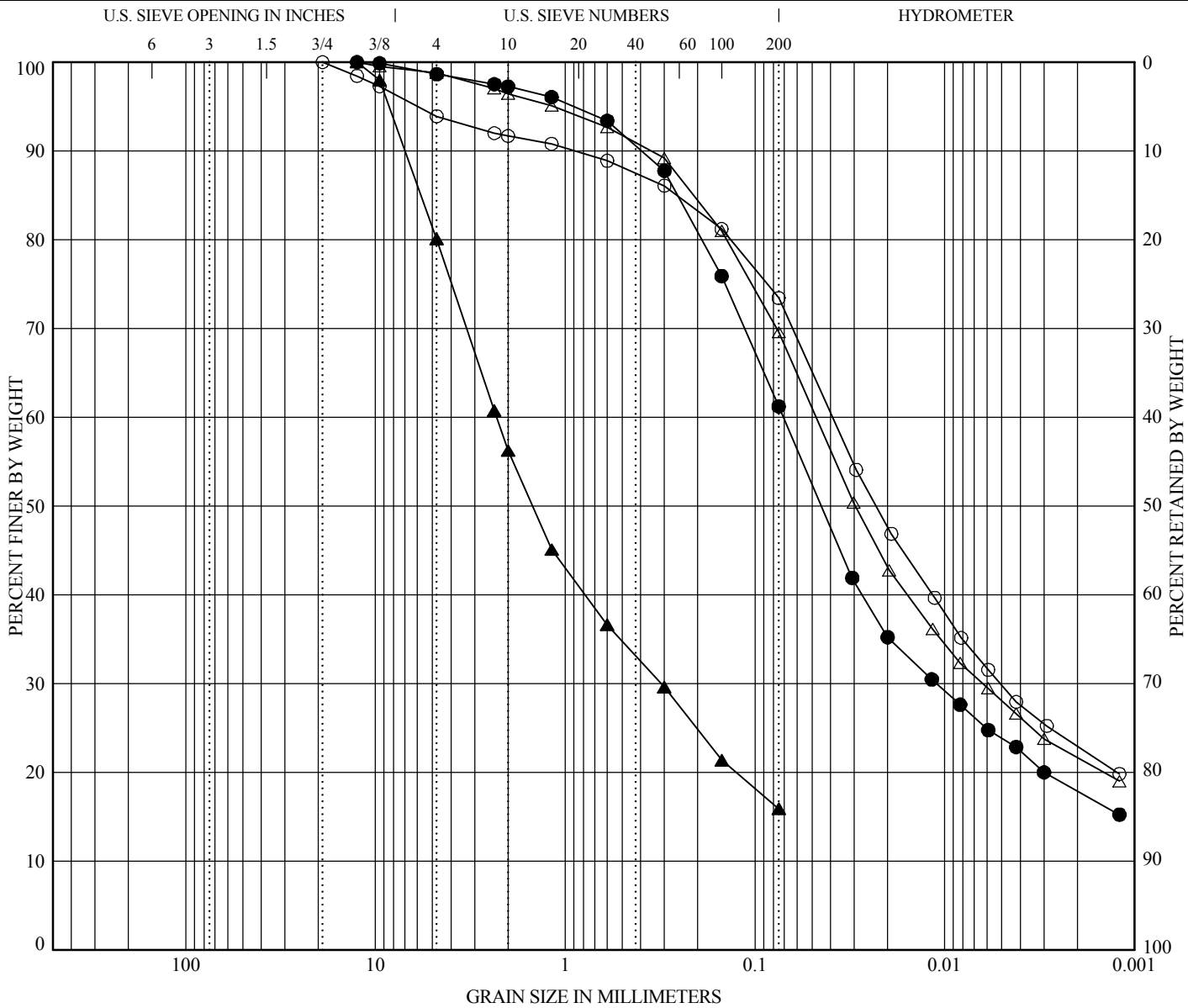
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Figure: F-6.87

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION			LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-145	51.5	LEAN CLAY with SAND (CL)			39	15	24	--	--
●	G-145	65.5	SANDY LEAN CLAY (CL)			30	15	15	--	--
△	G-145	71.5	SANDY LEAN CLAY (CL)			39	15	24	--	--
▲	G-145	80.5	SILTY SAND with GRAVEL (SM)			--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-145	51.5	19.00	0.039	0.005	--	6.1	20.5	73.4
●	G-145	65.5	12.50	0.071	0.011	--	1.4	37.4	61.2
△	G-145	71.5	12.50	0.048	0.006	--	1.2	29.2	69.6
▲	G-145	80.5	12.50	2.294	0.312	--	19.9	64.2	15.9

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: YN 8/9/2011
Checked/Date: LT 8/9/2011

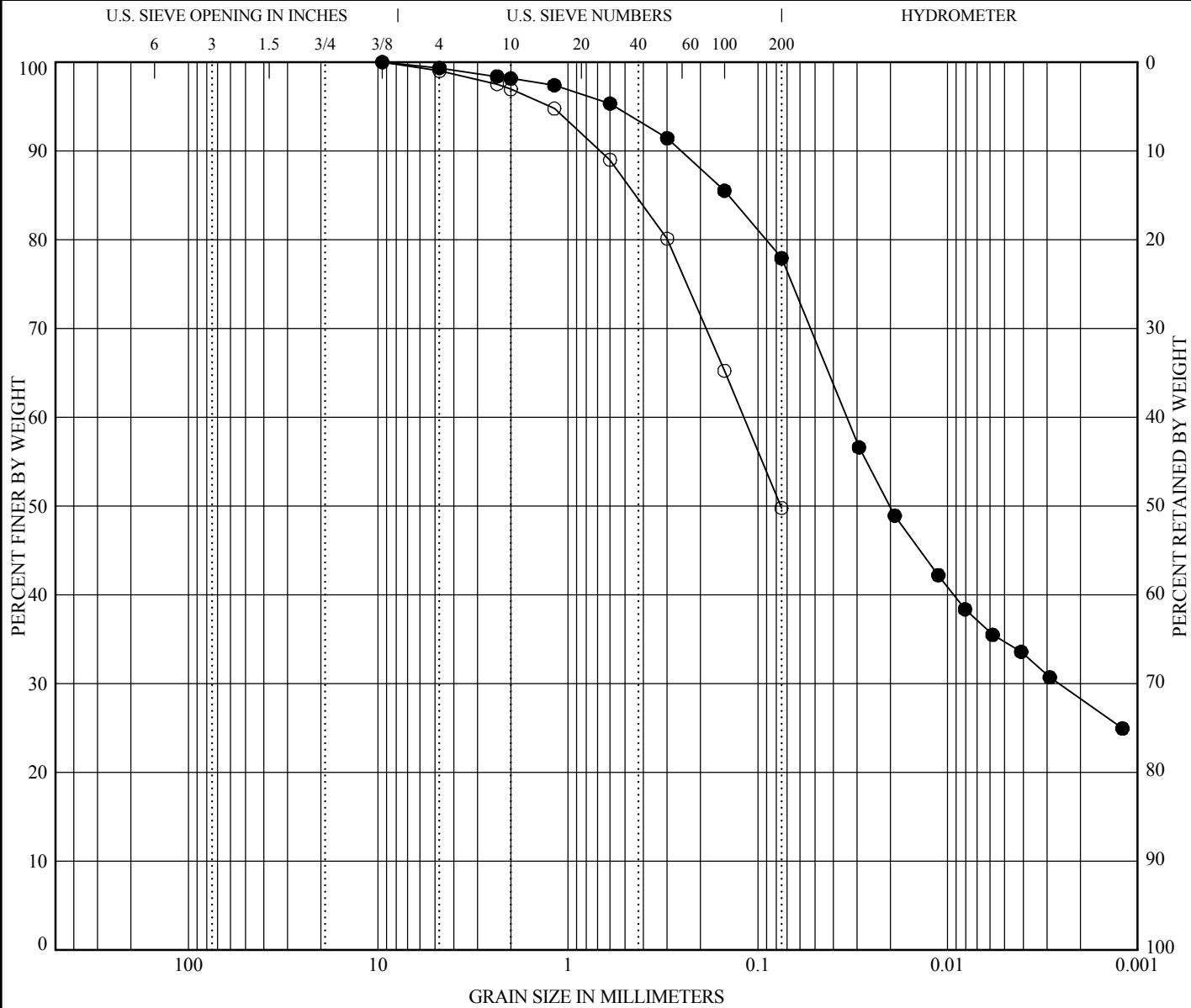
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Figure: F-6.88

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-145	100.5	SILTY SAND (SM)	--	--	--	--	--
●	G-145	110.5	LEAN CLAY with SAND (CL)	40	14	26	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-145	100.5	9.50	0.119	--	--	1.0	49.2	49.8
●	G-145	110.5	9.50	0.034	0.003	--	0.7	21.4	77.9

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

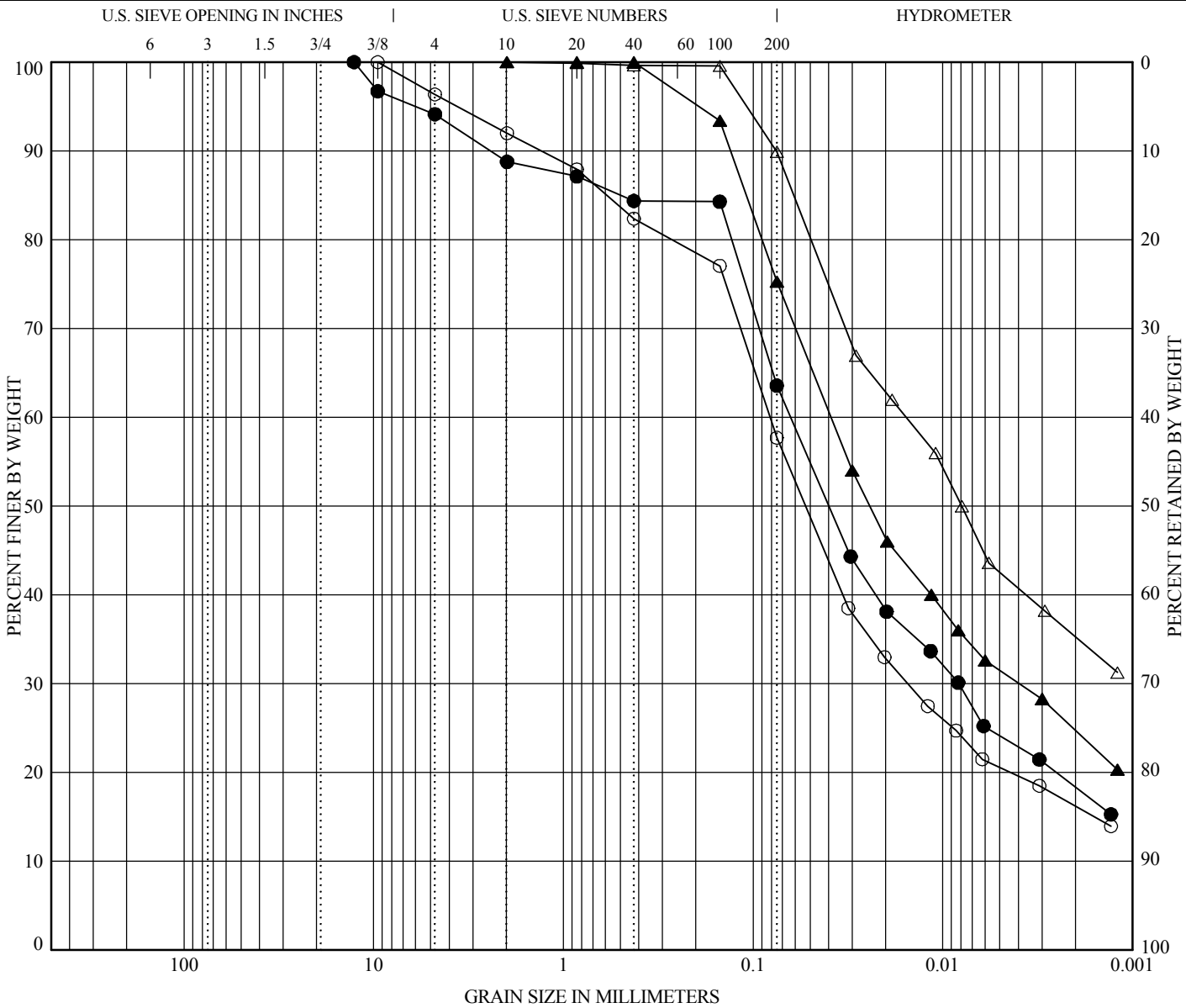
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PARTICLE SIZE DISTRIBUTION
 Project No.: 4953-10-1561
 Figure: F-6.89

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-146	48.5	SANDY SILT (ML)	--	--	--	--	--
●	G-146	57.5	SANDY LEAN CLAY (CL)	33	18	15	--	--
△	G-146	69.5	LEAN CLAY (CL)	42	18	24	--	--
▲	G-146	81.5	LEAN CLAY with SAND (CL)	43	22	21	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-146	48.5	9.52	0.081	0.015	--	3.6	38.7	57.7
●	G-146	57.5	12.70	0.064	0.008	--	5.9	30.6	63.6
△	G-146	69.5	1.98	0.016	--	--	0.0	10.1	89.9
▲	G-146	81.5	1.98	0.039	0.004	--	0.0	24.7	75.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

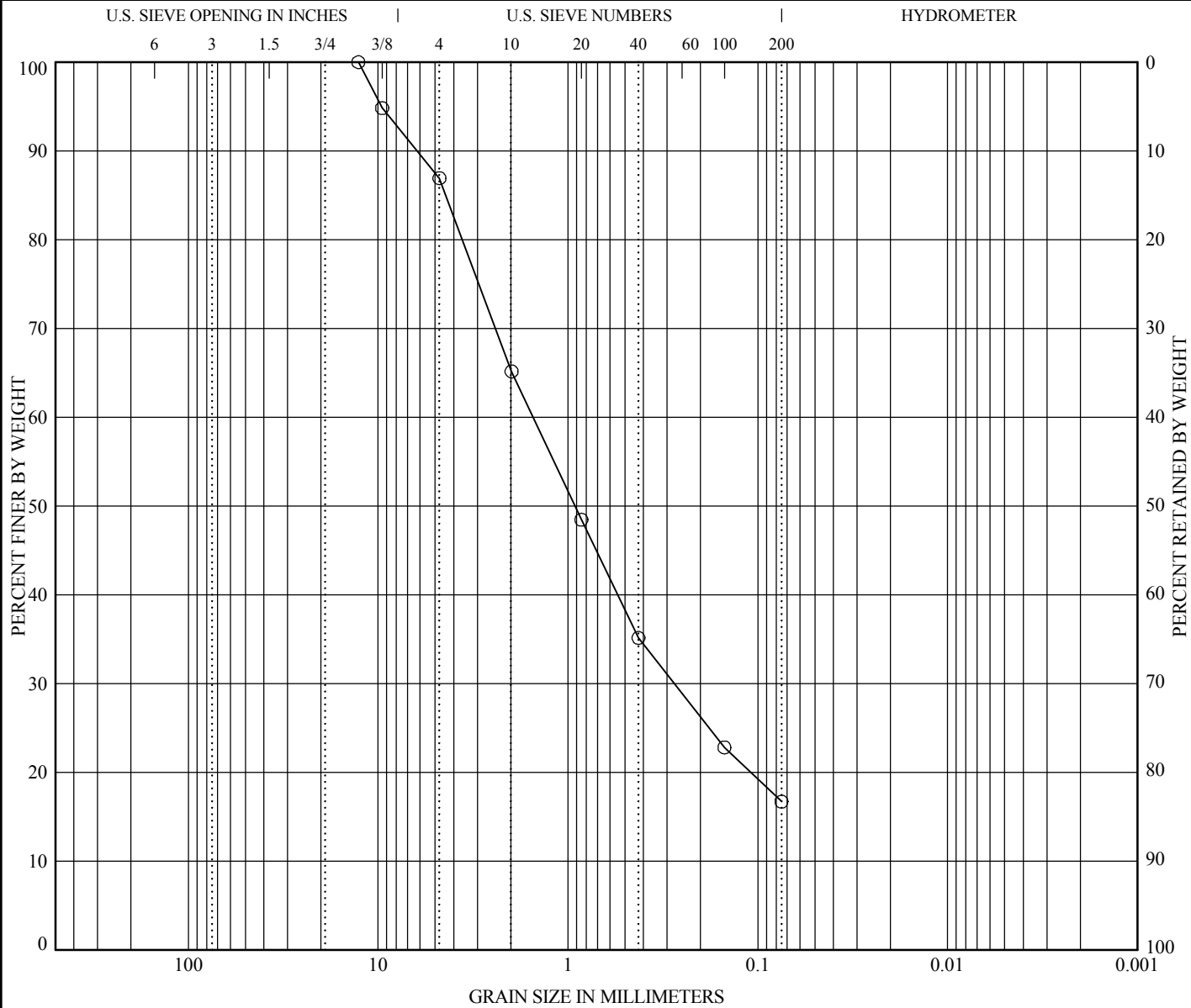
Prepared/Date: YN 9/1/2011
Checked/Date: LT 9/16/2011

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PARTICLE SIZE DISTRIBUTION
Project No.: 4953-10-1561
Figure: F-6.90

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-146	90.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-146	90.5	12.70	1.524	0.275	--	13.1	70.2	16.7

Laboratory Test Method: ASTM D 422

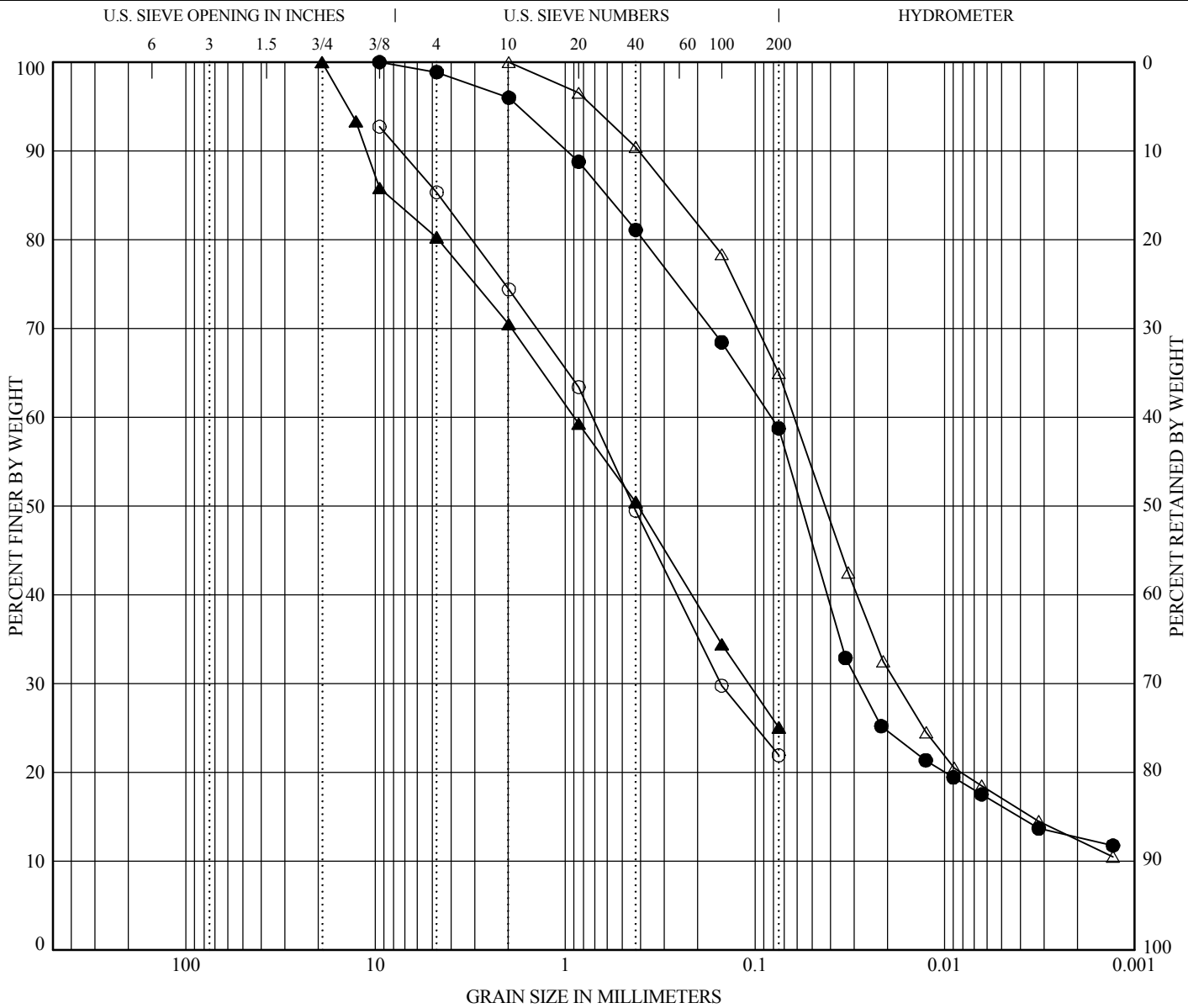
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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PARTICLE SIZE DISTRIBUTION
 Project No.: 4953-10-1561
 Figure: F-6.91



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-147	70.5	SILTY SAND (SM)	--	--	--	--	--
●	G-147	75.5	SANDY LEAN CLAY (CL)	38	16	22	--	--
△	G-147	80.5	SANDY LEAN CLAY (CL)	31	18	13	--	--
▲	G-147	90.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-147	70.5	9.52	0.718	0.152	--	7.4	63.4	21.9
●	G-147	75.5	9.52	0.082	0.028	--	1.1	40.1	58.7
△	G-147	80.5	1.98	0.062	0.018	--	0.0	35.0	65.0
▲	G-147	90.5	19.10	0.898	0.108	--	19.7	55.2	25.1

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: YN 9/30/2011
Checked/Date: HP 10/2/2011

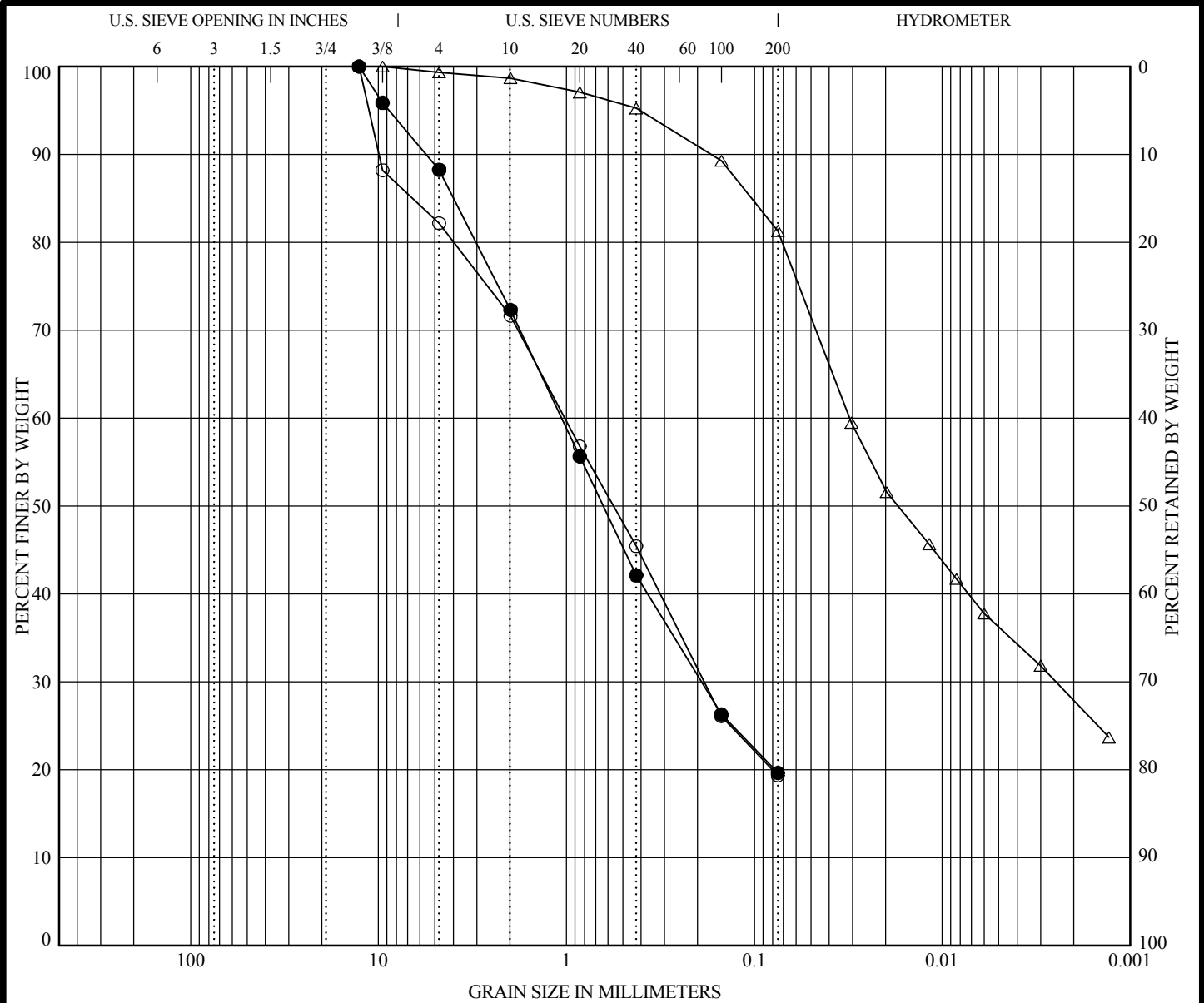
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Project No.: 4953-10-1561
Figure: F-6.92

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-147	95.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
●	G-147	100.5	SILTY SAND (SM)	--	--	--	--	--
△	G-147	115.5	SILT with SAND (ML)	48	28	20	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-147	95.5	12.70	1.020	0.185	--	17.8	62.8	19.4
●	G-147	100.5	12.70	1.060	0.192	--	11.7	68.6	19.6
△	G-147	115.5	9.52	0.031	0.002	--	0.7	18.0	81.3

Laboratory Test Method: ASTM D 422

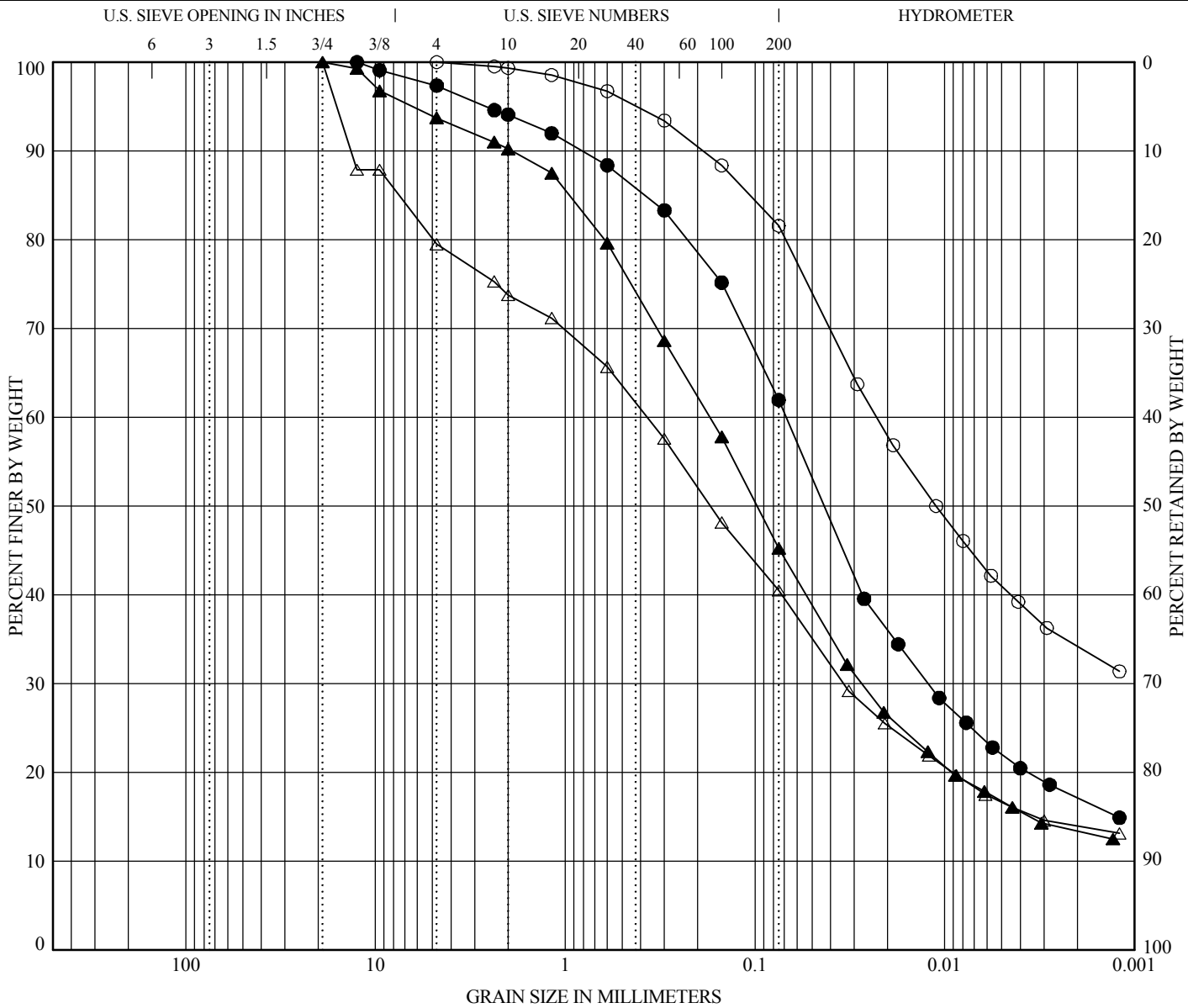
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

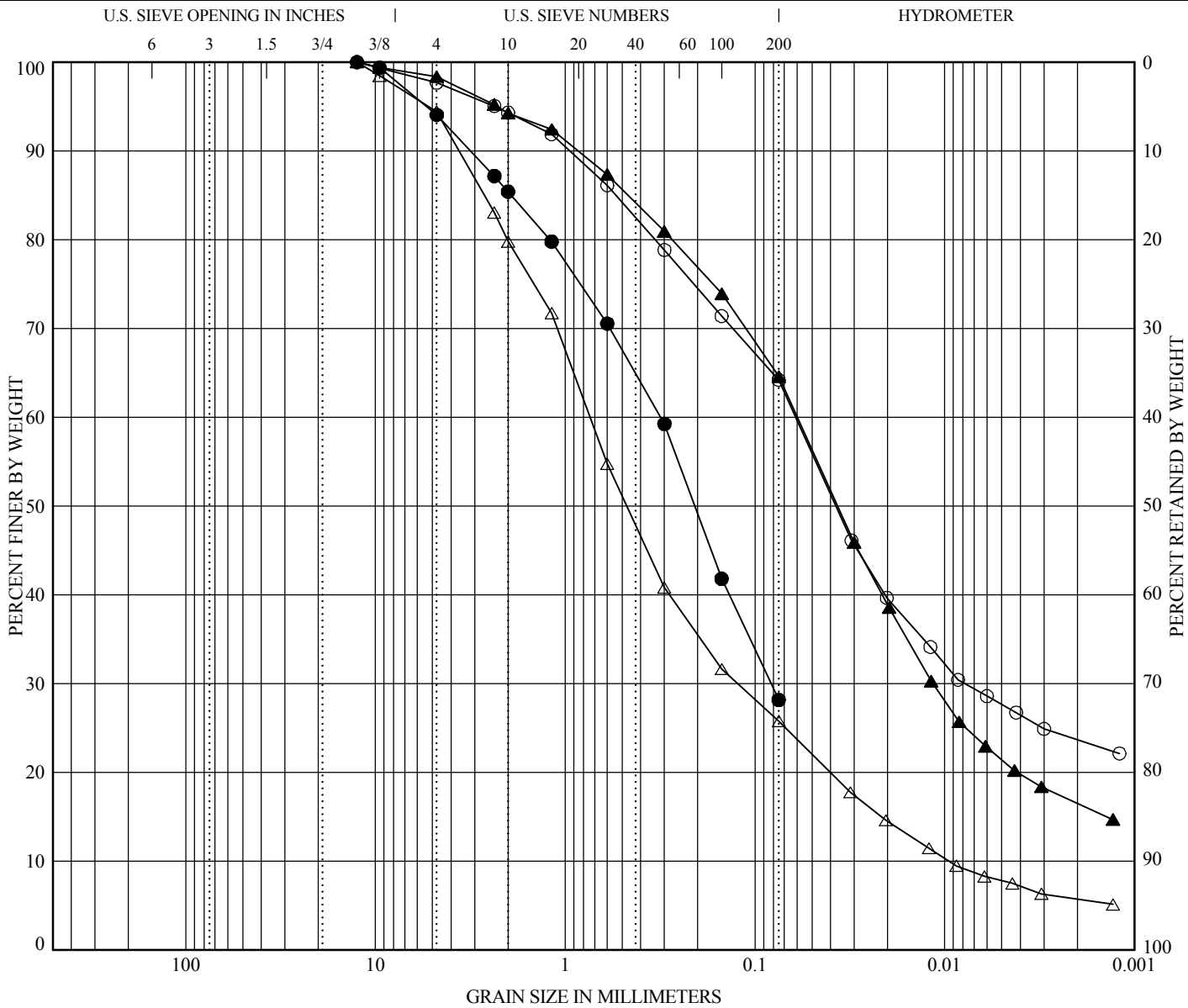
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PARTICLE SIZE DISTRIBUTION
 Project No.: 4953-10-1561
 Figure: F-6.93





COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-148	75.5	SANDY LEAN CLAY (CL)	32	17	15	--	--
●	G-148	85.5	SILTY SAND (SM)	--	--	--	--	--
△	G-148	95.5	SILTY SAND (SM)	NP	NP	NP	2.2	77.8
▲	G-148	100.5	SANDY LEAN CLAY (CL)	37	22	15	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-148	75.5	12.50	0.061	0.008	--	2.3	33.5	64.2
●	G-148	85.5	12.50	0.314	0.082	--	5.9	65.9	28.2
△	G-148	95.5	12.50	0.739	0.124	0.010	5.6	68.7	25.8
▲	G-148	100.5	12.50	0.060	0.012	--	1.6	33.8	64.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

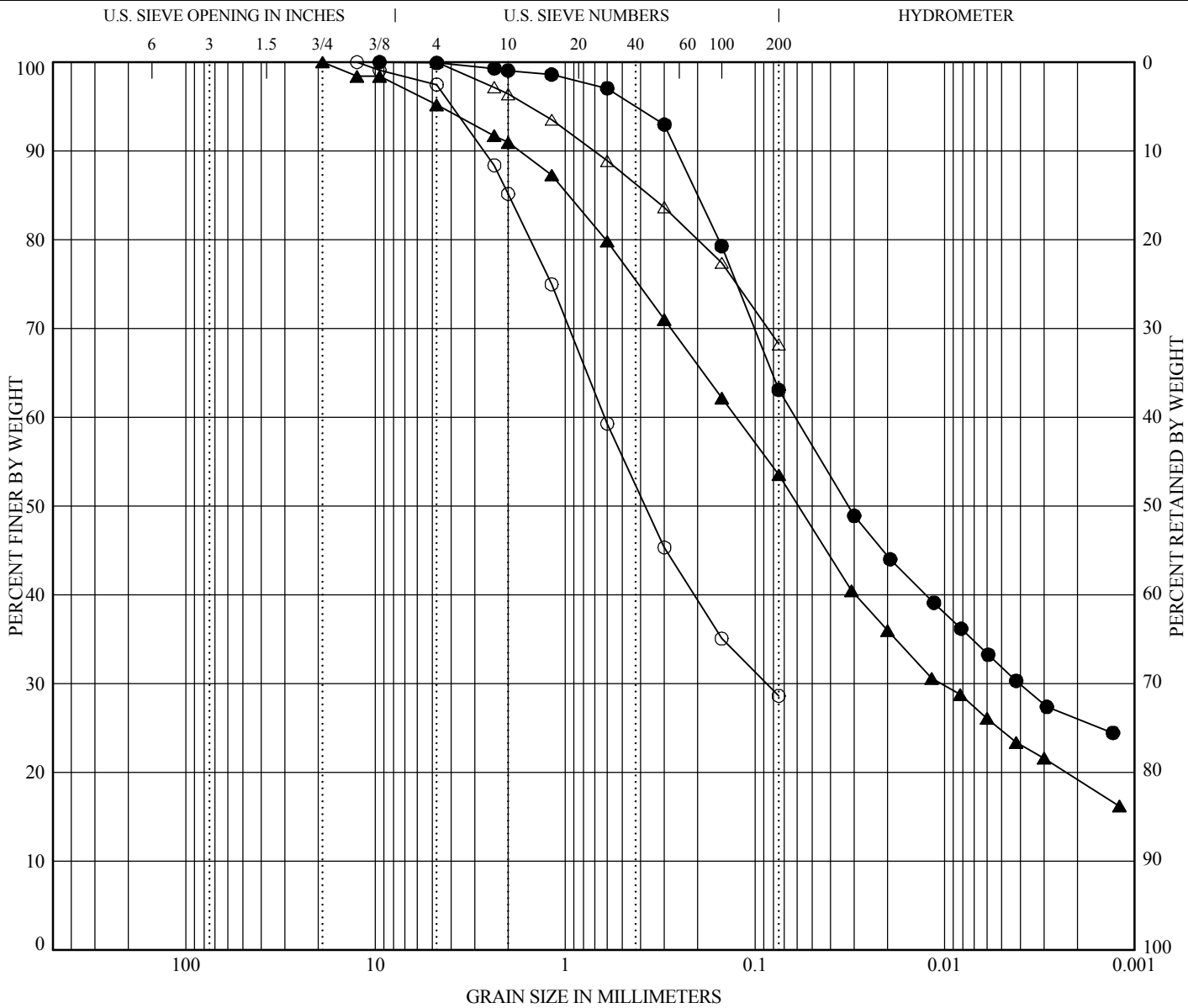
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Figure: F-6.95

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-148	105.5	SANDY LEAN CLAY (CL)	--	--	--	--	--
●	G-148	115.5	SANDY LEAN CLAY (CL)	44	16	28	--	--
△	G-148	125.5	SANDY SILT (ML)	--	--	--	--	--
▲	G-148	140.5	SANDY LEAN CLAY (CL)	38	14	24	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-148	105.5	12.50	0.619	0.087	--	2.5	68.9	28.6
●	G-148	115.5	9.50	0.061	0.004	--	0.1	36.8	63.1
△	G-148	125.5	4.75	--	--	--	0.0	31.8	68.2
▲	G-148	140.5	19.00	0.126	0.010	--	4.8	41.7	53.5

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

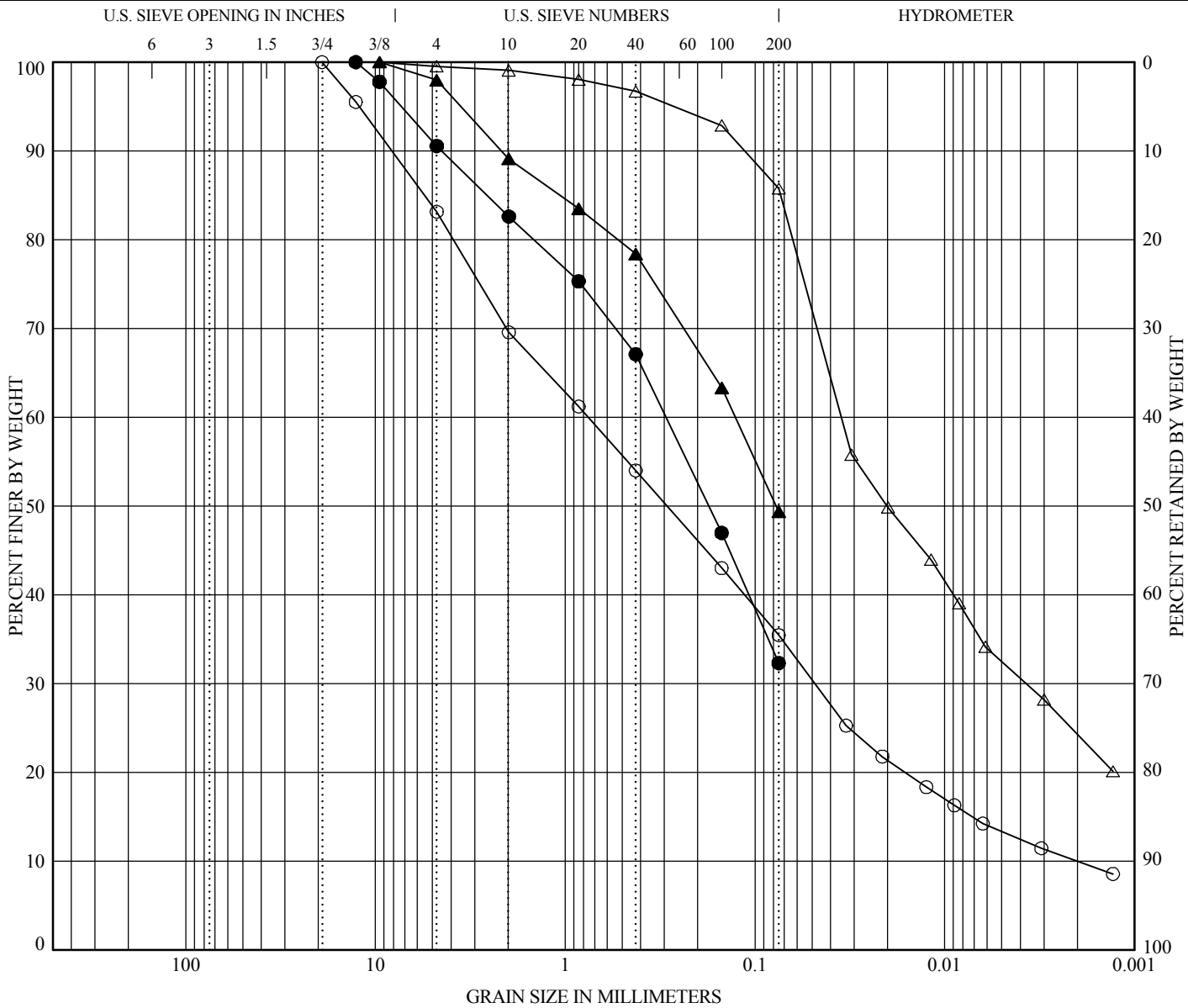
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Project No.: 4953-10-1561
Figure: F-6.96

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-149	58.0	SILTY SAND with GRAVEL (SM)	--	--	--	1.5	377.5
●	G-149	63.0	SILTY SAND (SM)	--	--	--	--	--
△	G-149	65.5	LEAN CLAY (CL)	46	24	22	--	--
▲	G-149	73.0	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-149	58.0	19.10	0.757	0.048	0.002	16.8	47.7	35.5
●	G-149	63.0	12.70	0.294	--	--	9.4	58.2	32.3
△	G-149	65.5	9.52	0.035	0.004	--	0.5	13.8	85.8
▲	G-149	73.0	9.52	0.127	--	--	2.0	48.6	49.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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Checked/Date: JAG 6/27/2011

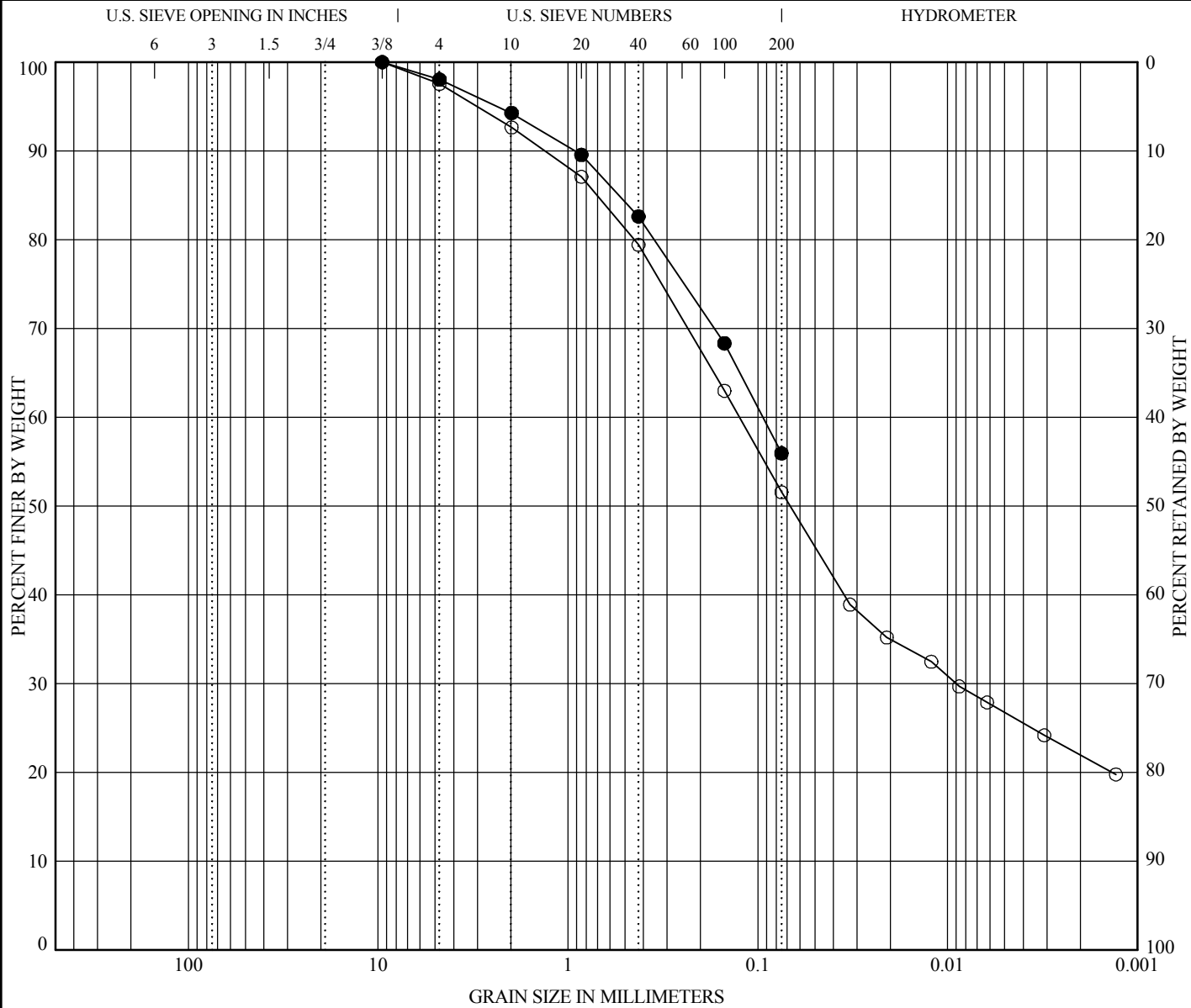
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PARTICLE SIZE DISTRIBUTION
Project No.: 4953-10-1561
Figure: F-6.97

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-149	80.5	SANDY LEAN CLAY (CL)	--	--	--	--	--
●	G-149	83.0	SANDY LEAN CLAY (CL)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-149	80.5	9.52	0.125	0.009	--	2.5	46.0	51.6
●	G-149	83.0	9.52	0.094	--	--	2.0	42.1	55.9

Laboratory Test Method: ASTM D 422

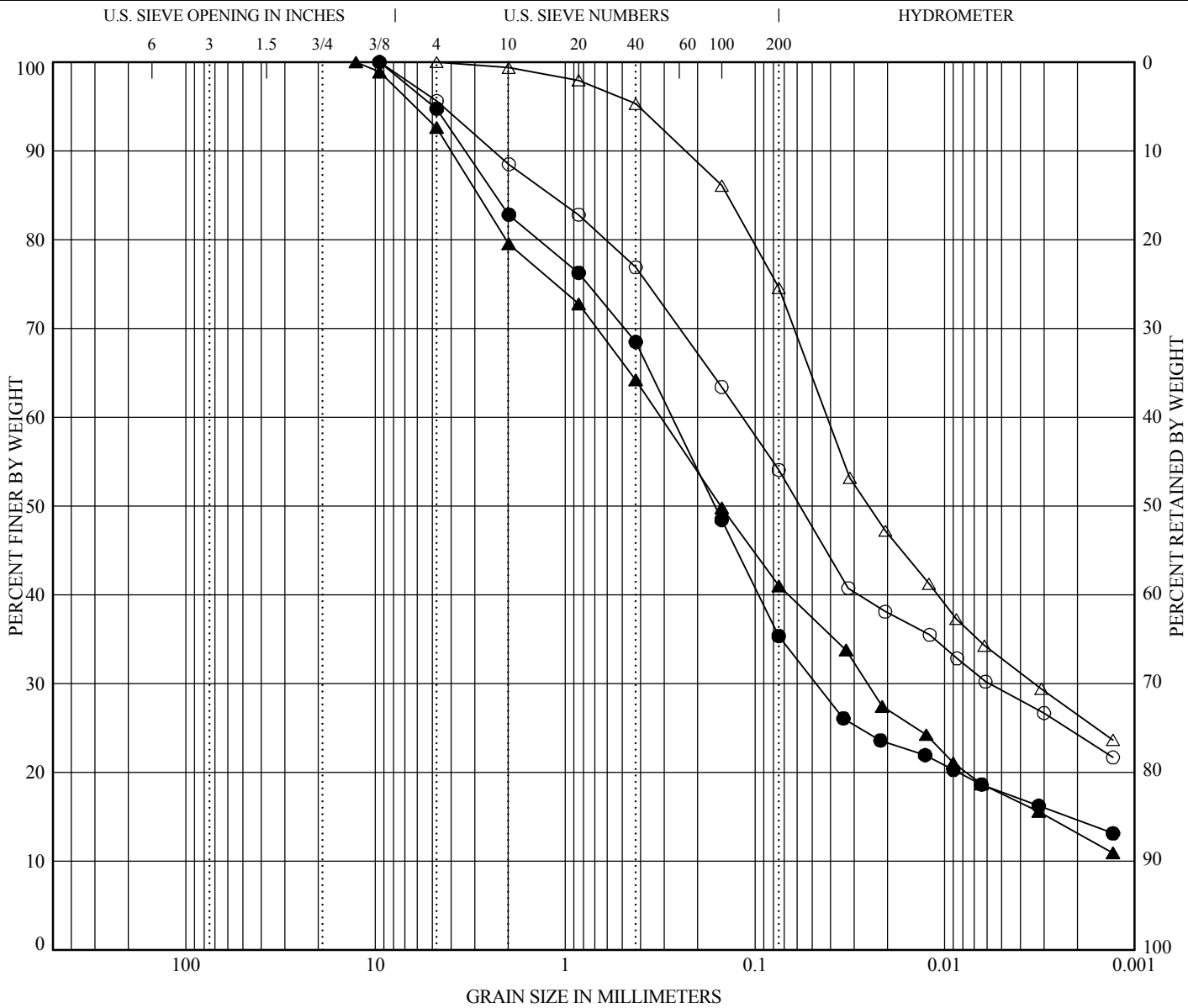
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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MTA Westside Subway Extension
 Los Angeles, California



PARTICLE SIZE DISTRIBUTION
 Project No.: 4953-10-1561
 Figure: F-6.98



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-150	25.5	SANDY LEAN CLAY (CL)	--	--	--	--	--
●	G-150	40.5	CLAYEY SAND (SC)	--	--	--	--	--
△	G-150	50.5	LEAN CLAY with SAND (CL)	43	21	22	--	--
▲	G-150	60.5	CLAYEY SAND (SC)	37	20	17	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-150	25.5	9.52	0.116	0.006	--	4.4	41.6	54.1
●	G-150	40.5	9.52	0.273	0.048	--	5.2	59.4	35.4
△	G-150	50.5	4.75	0.042	0.003	--	0.0	25.4	74.6
▲	G-150	60.5	12.70	0.314	0.025	--	7.4	51.6	41.0

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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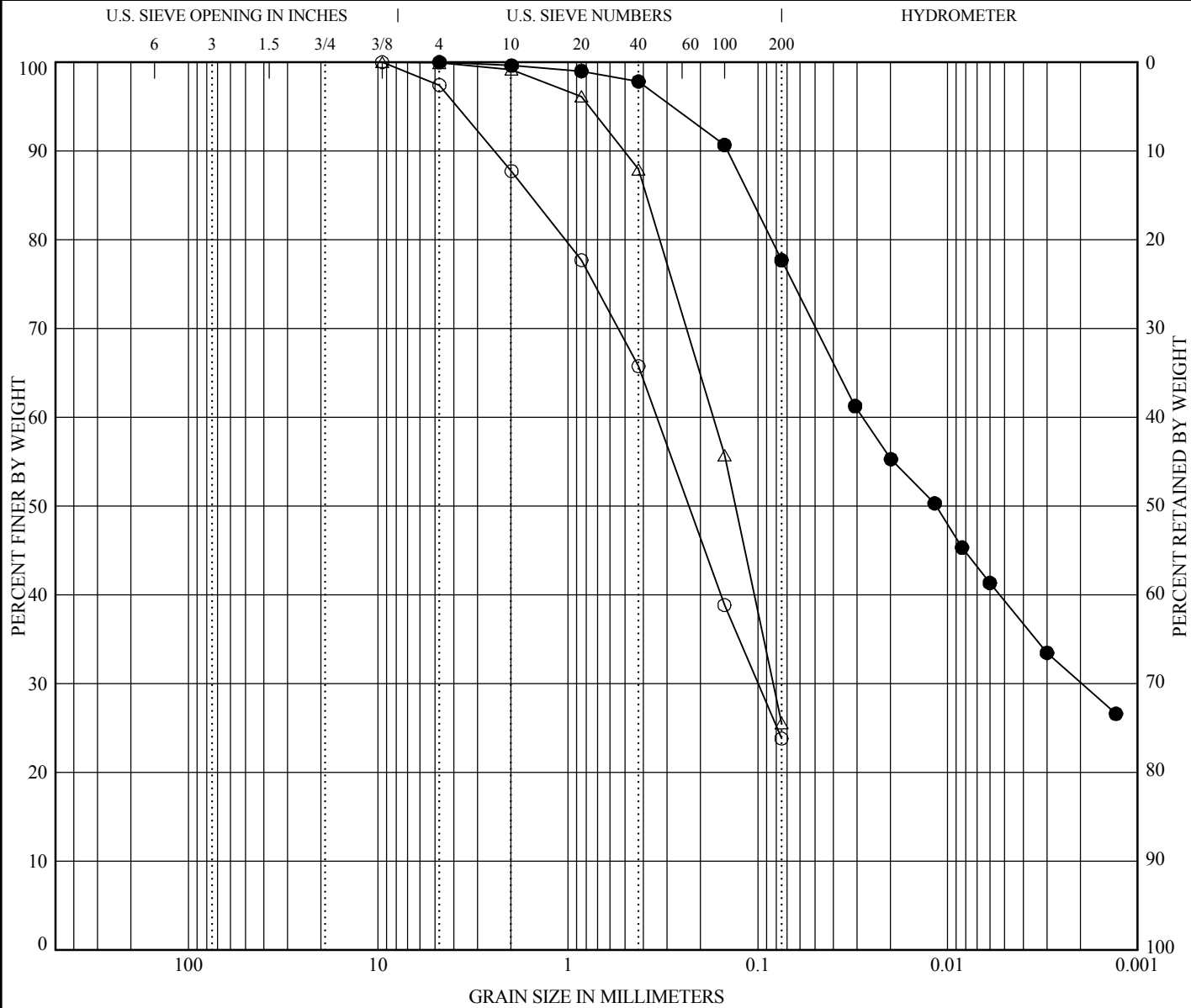
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Project No.: 4953-10-1561
Figure: F-6.99

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-150	70.5	SILTY SAND (SM)	--	--	--	--	--
●	G-150	75.5	FAT CLAY with SAND (CH)	54	27	27	--	--
△	G-150	90.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-150	70.5	9.52	0.340	0.100	--	2.6	73.6	23.8
●	G-150	75.5	4.75	0.028	0.002	--	0.0	22.3	77.7
△	G-150	90.5	9.52	0.172	0.083	--	0.1	74.4	25.5

Laboratory Test Method: ASTM D 422

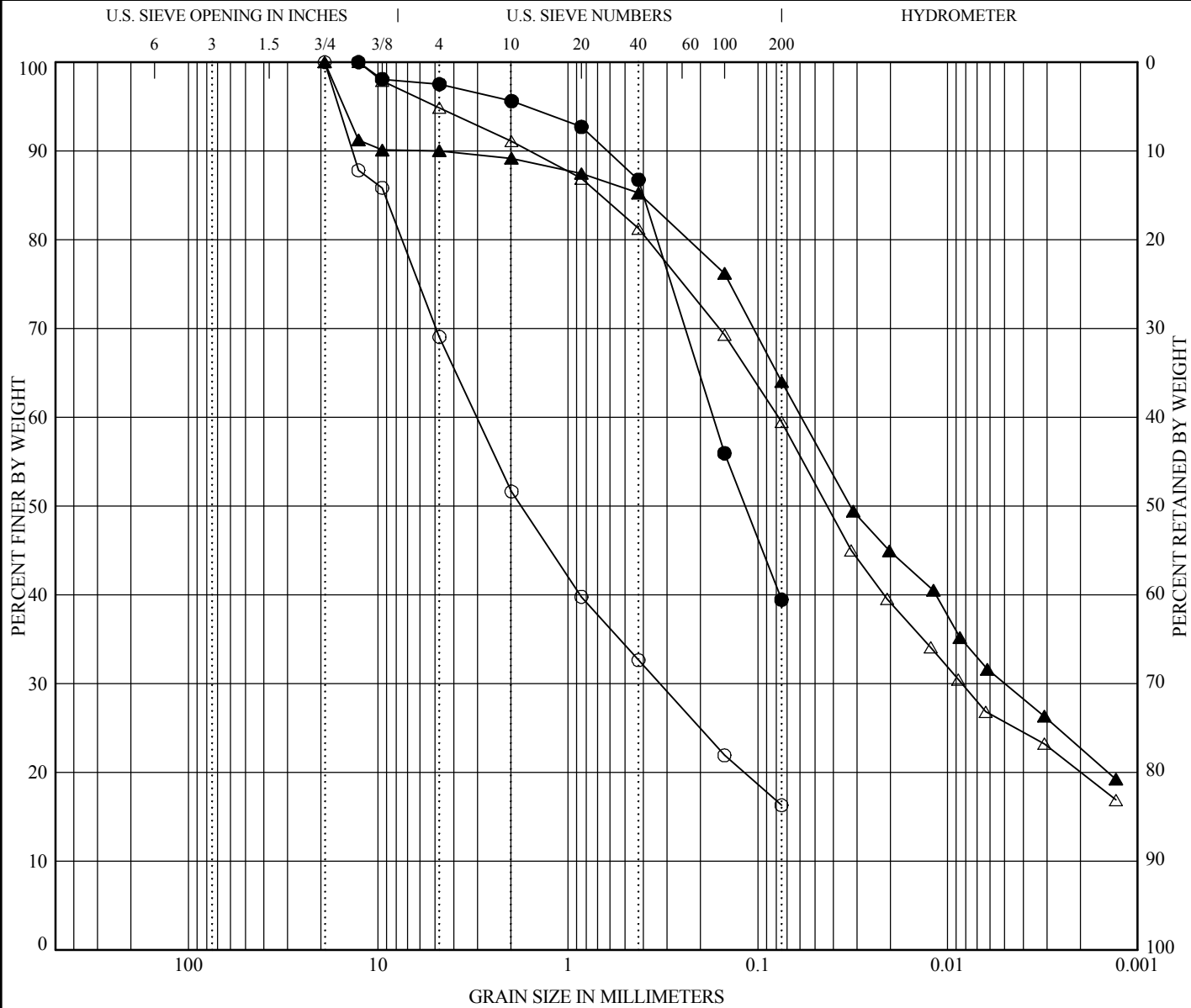
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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PARTICLE SIZE DISTRIBUTION
 Project No.: 4953-10-1561
 Figure: F-6.100



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-152	50.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
●	G-152	58.0	SILTY SAND (SM)	--	--	--	--	--
△	G-152	63.0	SANDY LEAN CLAY (CL)	34	19	15	--	--
▲	G-152	70.5	SANDY LEAN CLAY (CL)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-152	50.5	19.10	3.015	0.329	--	31.0	52.8	16.3
●	G-152	58.0	12.70	0.172	--	--	2.5	58.1	39.4
△	G-152	63.0	12.70	0.078	0.008	--	5.1	35.4	59.5
▲	G-152	70.5	19.10	0.059	0.005	--	10.0	26.0	64.0

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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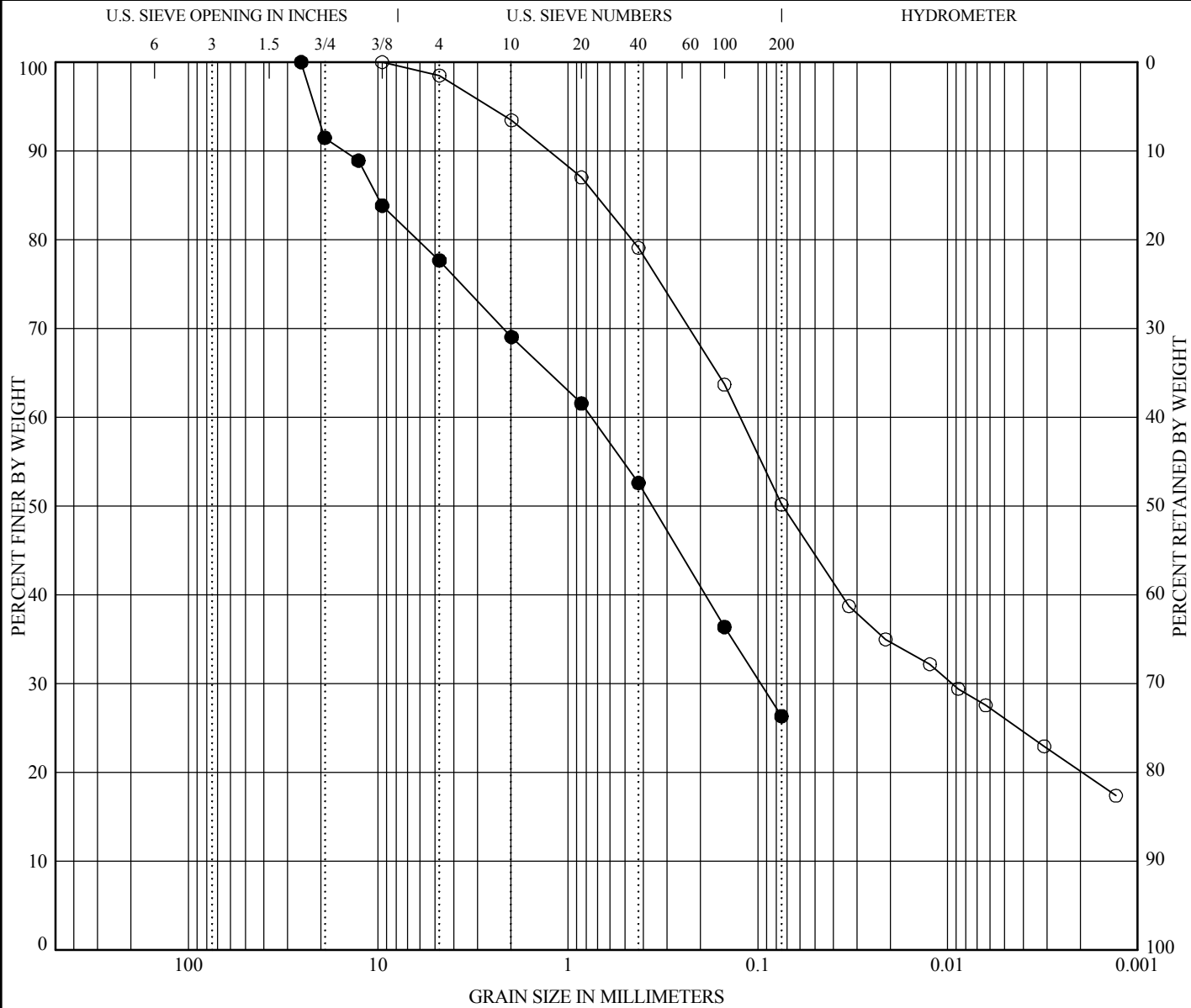
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PARTICLE SIZE DISTRIBUTION
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Figure: F-6.101

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-152	78.0	SANDY LEAN CLAY (CL)	--	--	--	--	--
●	G-152	80.5	CLAYEY SAND with GRAVEL (SC)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-152	78.0	9.52	0.124	0.009	--	1.5	48.3	50.2
●	G-152	80.5	25.40	0.754	0.097	--	22.3	51.3	26.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

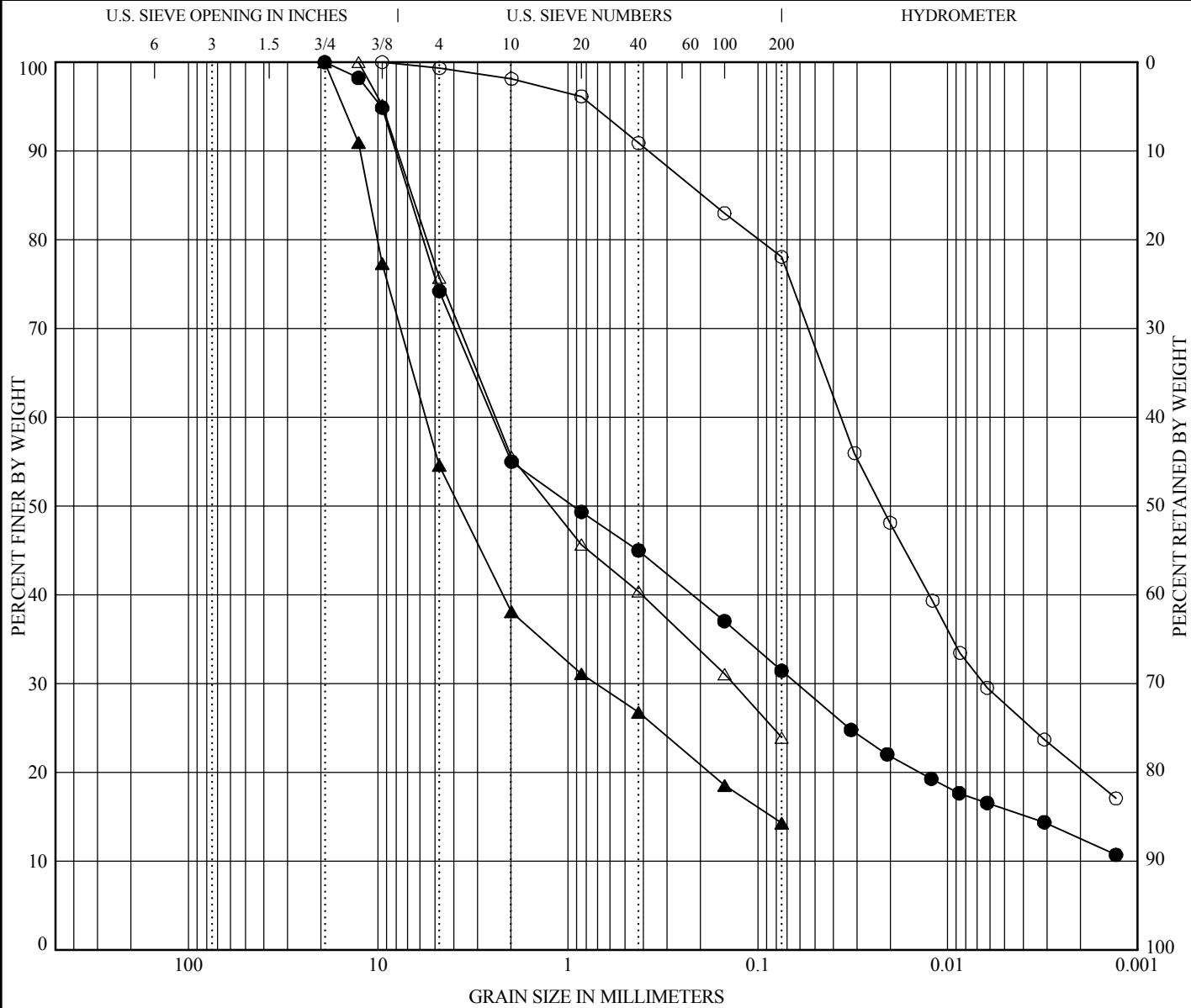
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 Figure: F-6.102

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-154	33.0	LEAN CLAY with SAND (CL)	--	--	--	--	--
●	G-154	43.0	CLAYEY SAND with GRAVEL (SC)	--	--	--	--	--
△	G-154	48.0	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
▲	G-154	53.0	CLAYEY GRAVEL with SAND (GC)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-154	33.0	9.52	0.036	0.006	--	0.7	21.3	78.1
●	G-154	43.0	19.10	2.486	0.062	--	25.8	42.8	31.4
△	G-154	48.0	12.70	2.402	0.135	--	24.3	51.8	23.9
▲	G-154	53.0	19.10	5.609	0.713	--	45.4	40.3	14.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

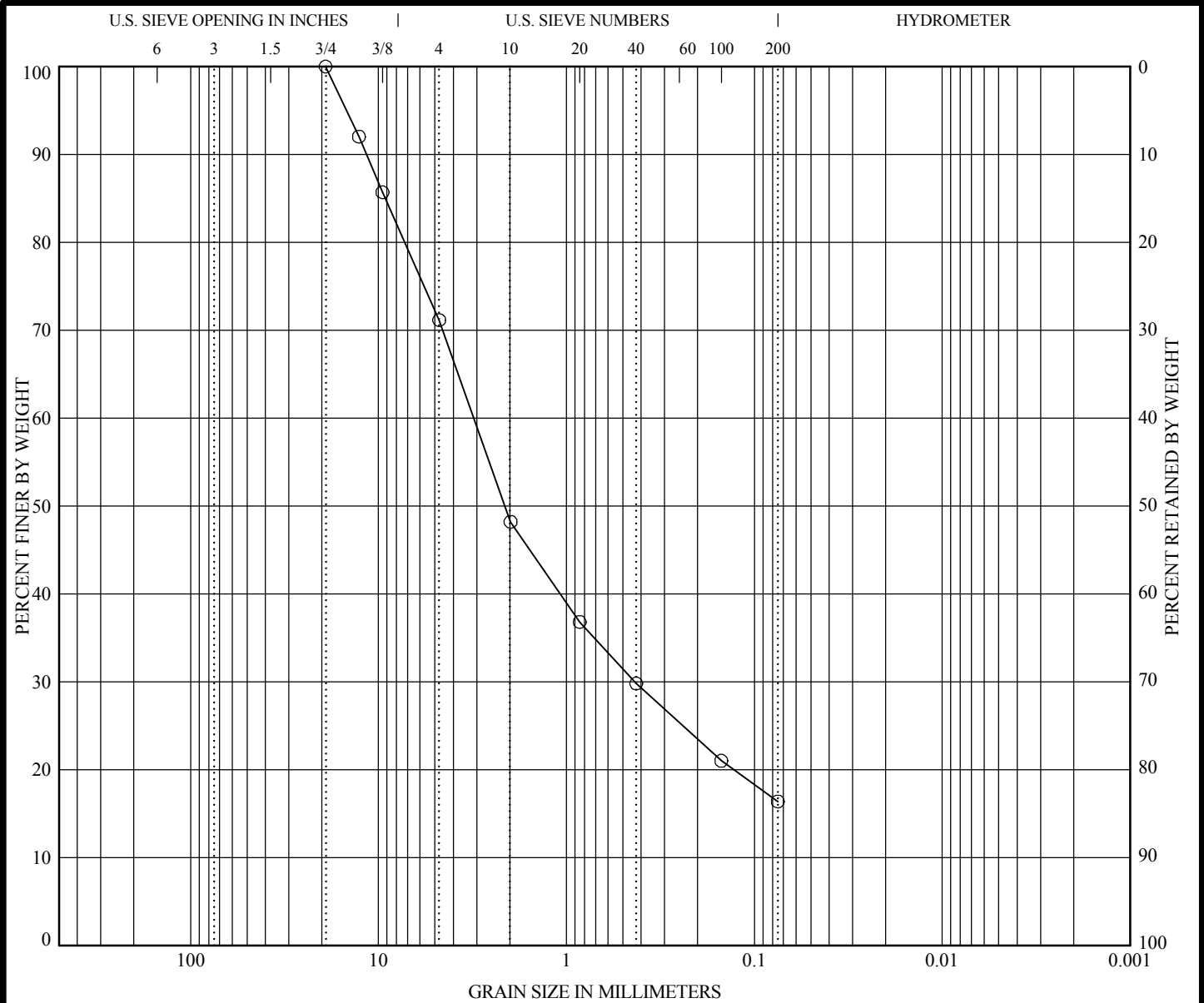
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 Figure: F-6.103

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-154	58.0	SILTY SAND with GRAVEL (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-154	58.0	19.10	3.104	0.433	--	28.8	54.8	16.4

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

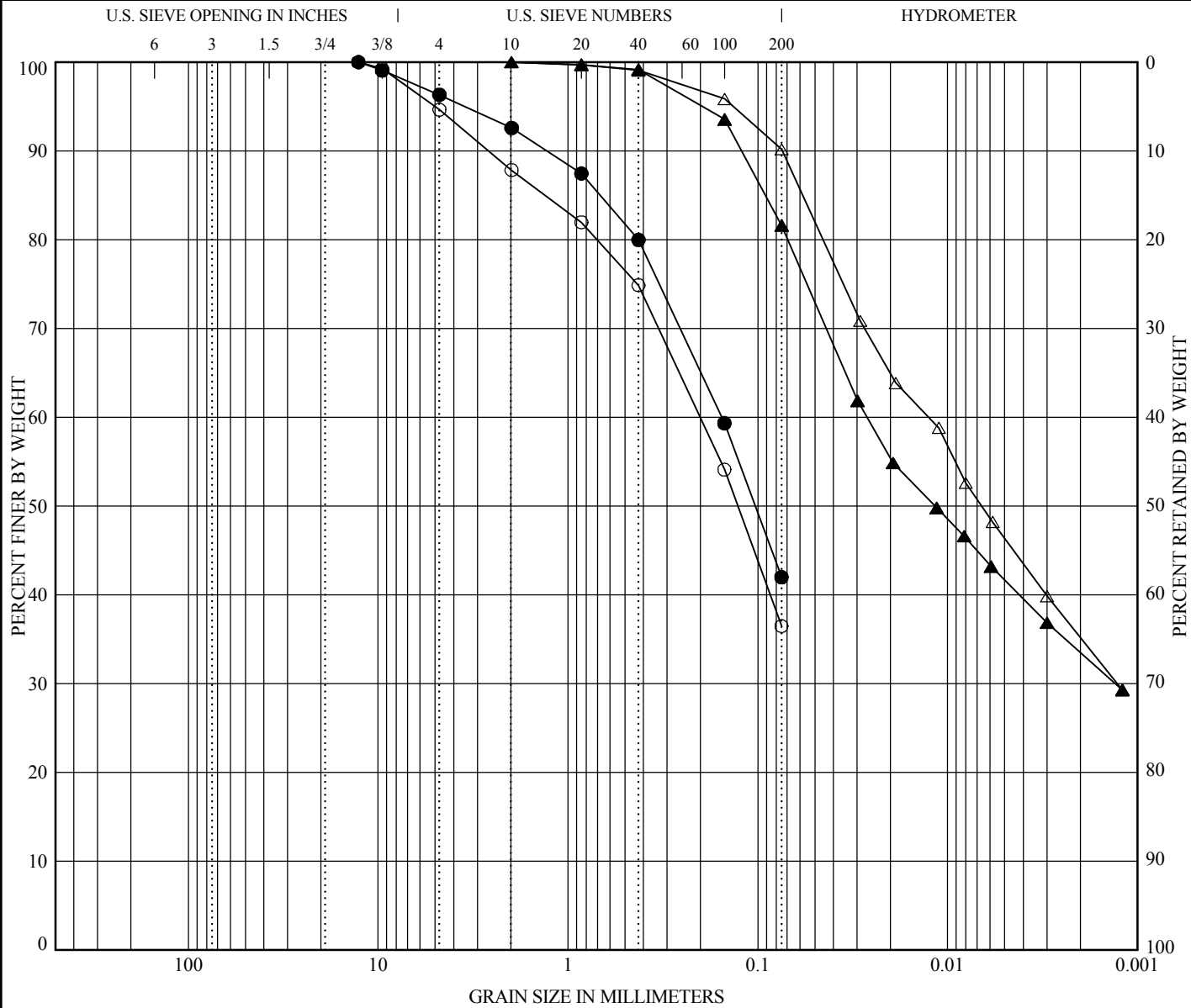
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-156	18.0	SILTY SAND (SM)	--	--	--	--	--
●	G-156	28.0	SILTY SAND (SM)	--	--	--	--	--
△	G-156	35.5	FAT CLAY (CH)	51	21	30	--	--
▲	G-156	40.5	LEAN CLAY with SAND (CL)	45	19	26	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-156	18.0	12.70	0.202	--	--	5.4	58.2	36.5
●	G-156	28.0	12.70	0.155	--	--	3.7	54.3	42.0
△	G-156	35.5	1.98	0.013	0.001	--	0.0	9.8	90.2
▲	G-156	40.5	1.98	0.027	0.001	--	0.0	18.4	81.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

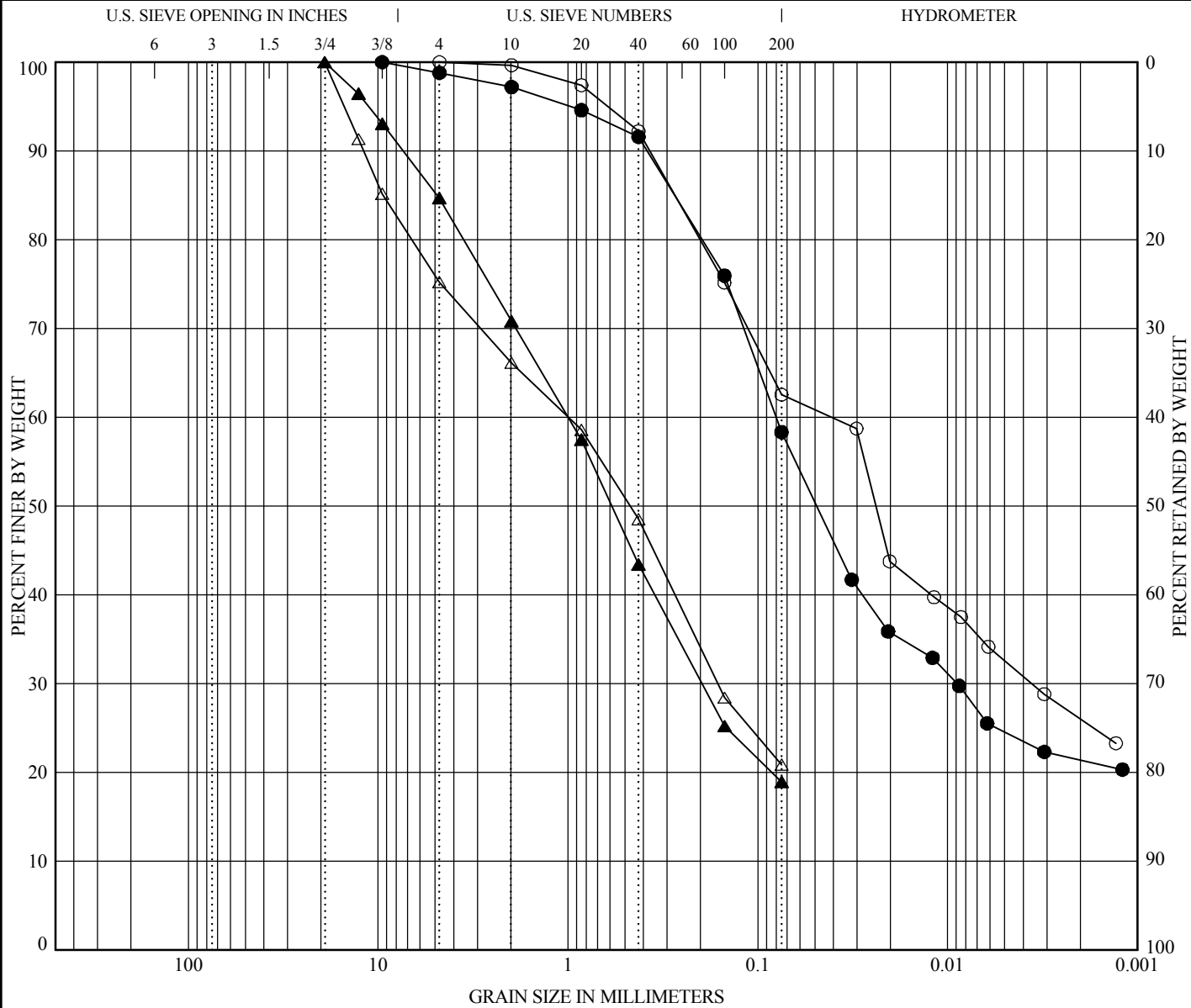
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-156	48.0	SANDY LEAN CLAY (CL)	38	17	21	--	--
●	G-156	50.5	SANDY LEAN CLAY (CL)	33	18	15	--	--
△	G-156	60.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
▲	G-156	65.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-156	48.0	4.75	0.041	0.004	--	0.0	37.5	62.5
●	G-156	50.5	9.52	0.080	0.009	--	1.2	40.5	58.3
△	G-156	60.5	19.10	0.996	0.163	--	24.8	54.4	20.9
▲	G-156	65.5	19.10	0.997	0.197	--	15.3	65.8	18.9

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

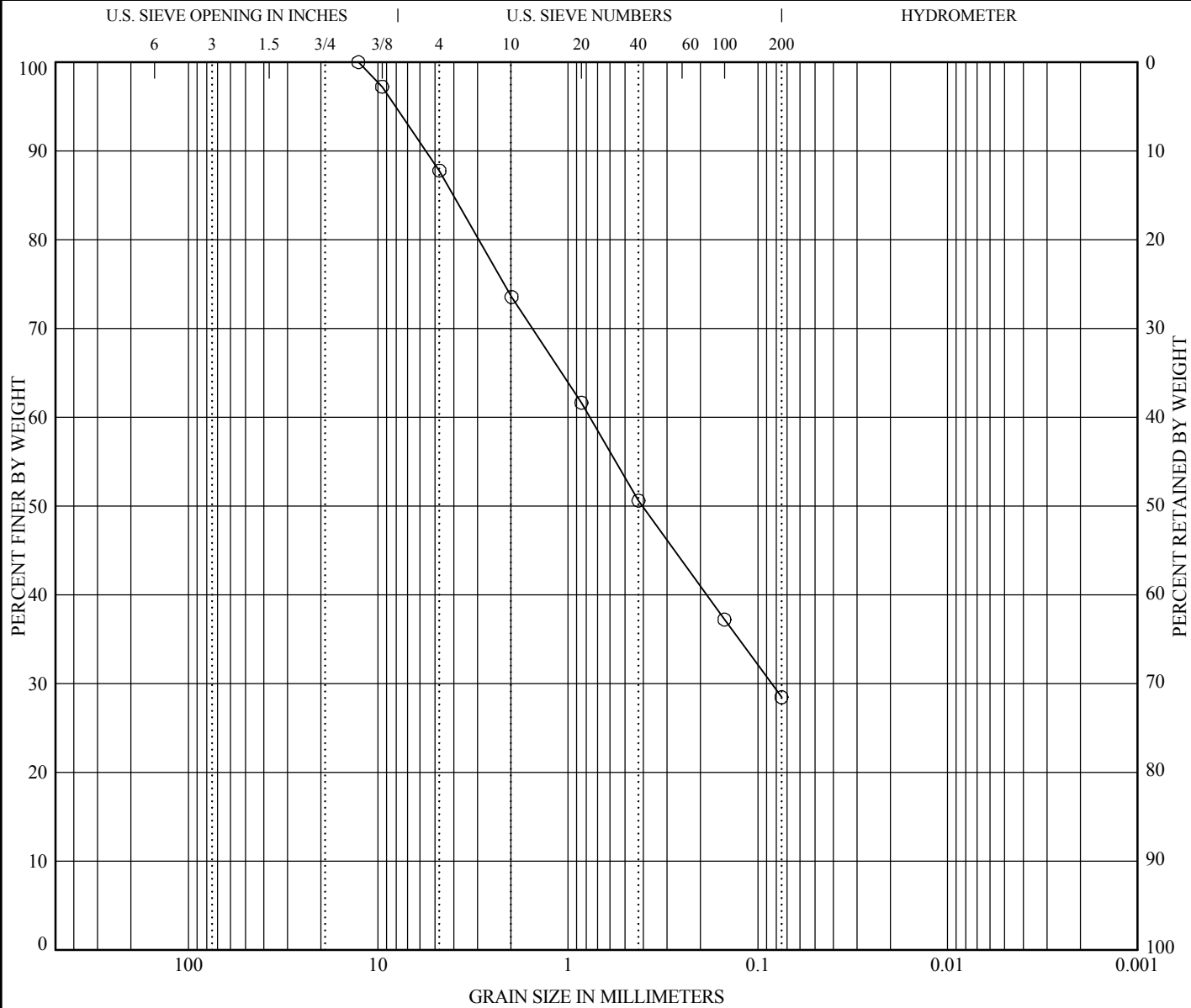
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-156	70.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-156	70.5	12.70	0.767	0.085	--	12.2	59.3	28.5

Laboratory Test Method: ASTM D 422

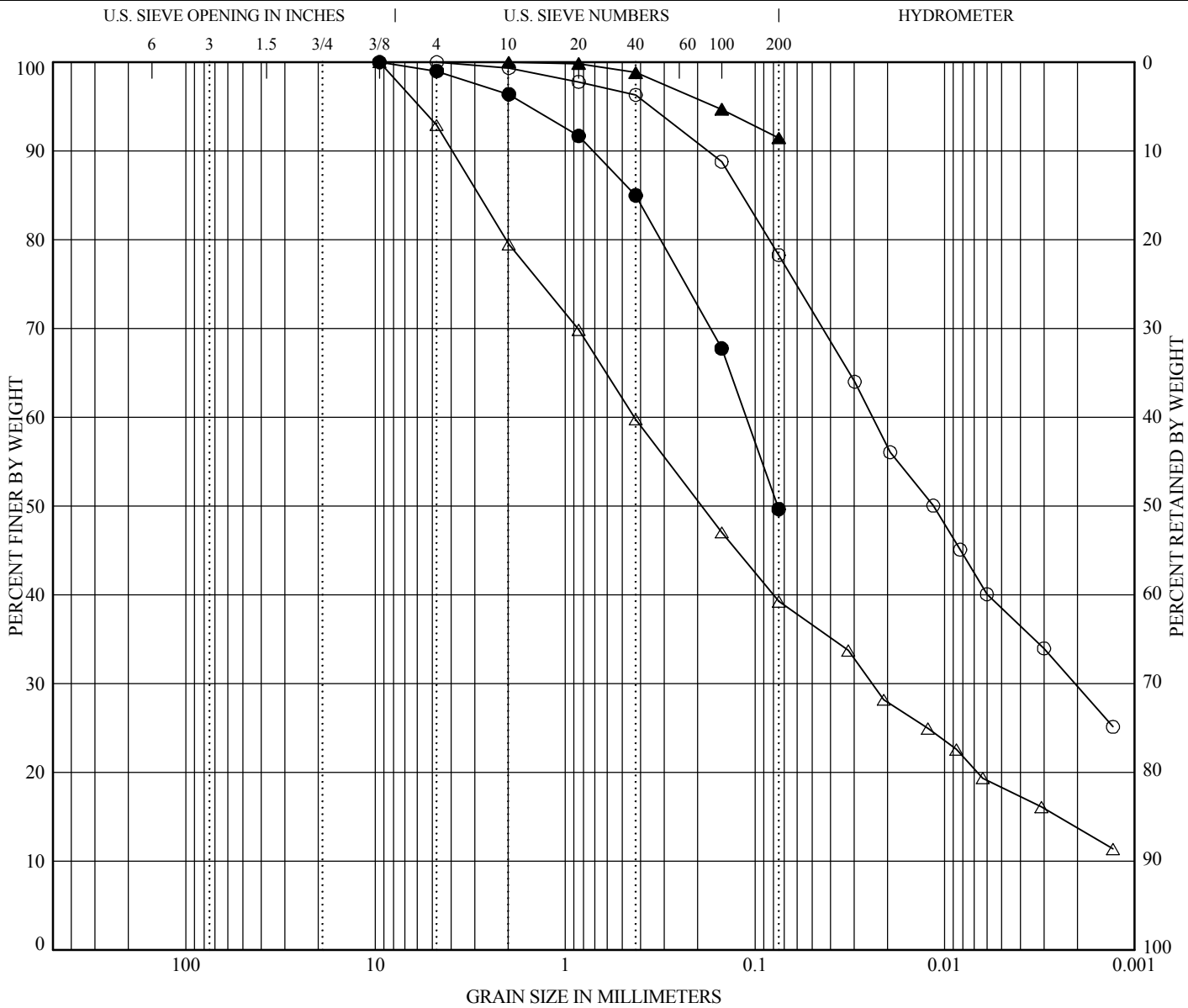
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.107



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-159	55.5	ELASTIC SILT with SAND (MH)	59	31	28	--	--
●	G-159	65.5	SILTY SAND (SM)	--	--	--	--	--
△	G-159	70.5	CLAYEY SAND (SC)	44	23	21	--	--
▲	G-159	75.5	LEAN CLAY (CL)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-159	55.5	4.75	0.024	0.002	--	0.0	21.7	78.3
●	G-159	65.5	9.52	0.111	--	--	1.0	49.3	49.7
△	G-159	70.5	9.52	0.432	0.024	--	7.1	53.7	39.2
▲	G-159	75.5	1.98	--	--	--	0.0	8.5	91.5

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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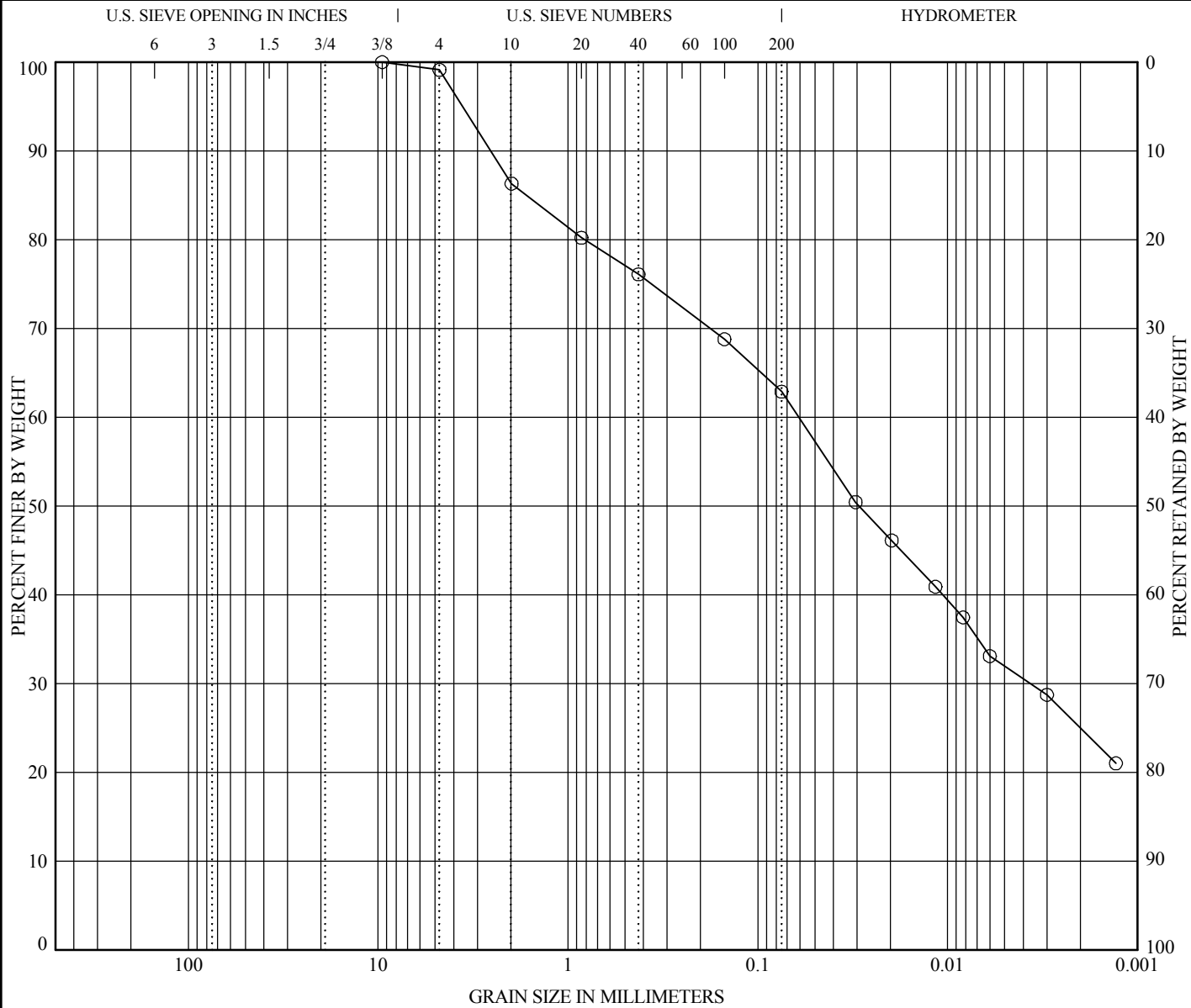
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Figure: F-6.108

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-159	85.5	SANDY FAT CLAY (CH)	50	26	24	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-159	85.5	9.52	0.061	0.004	--	0.9	36.3	62.9

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

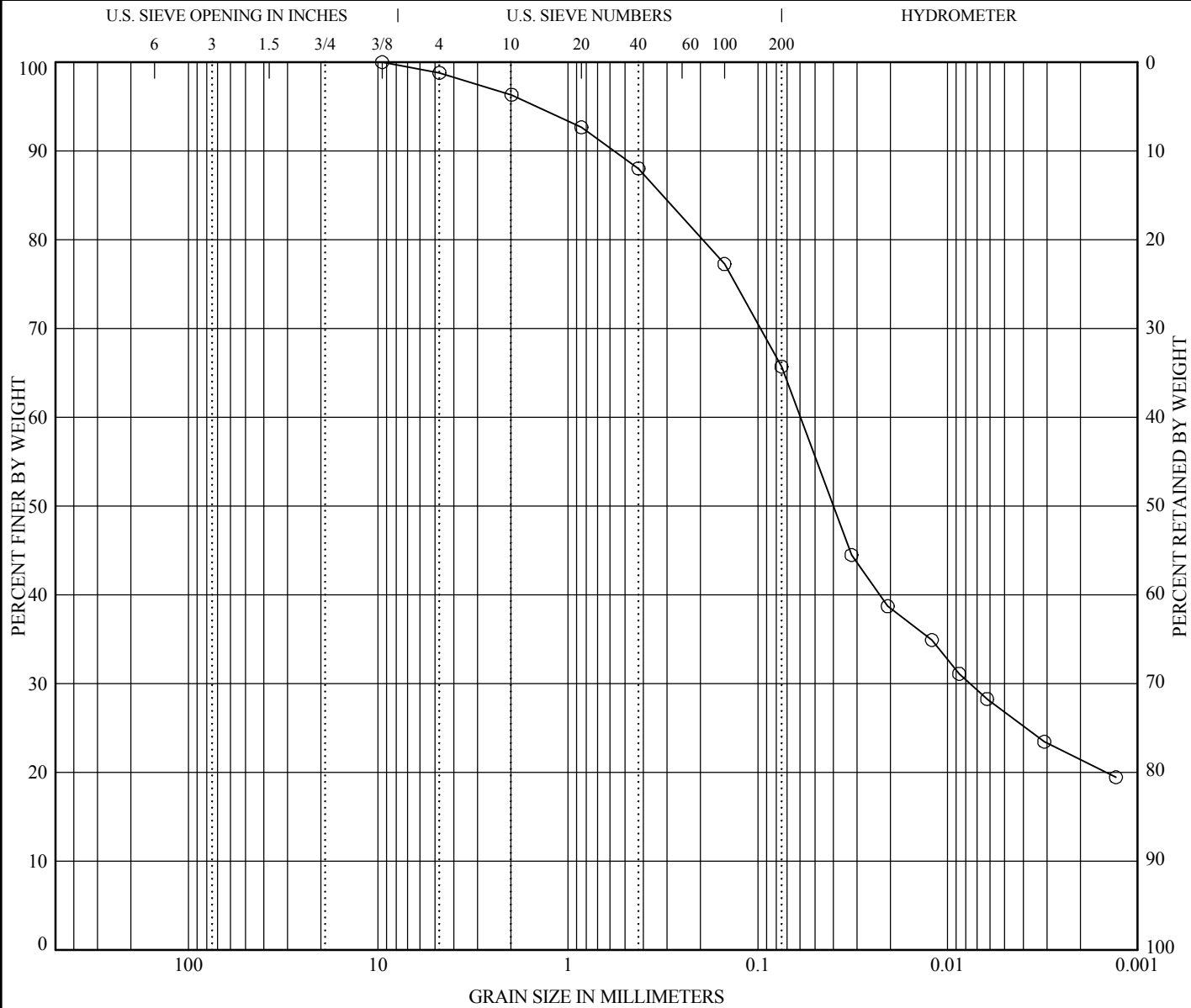
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 Figure: F-6.109

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-161	100.5	SANDY LEAN CLAY (CL)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-161	100.5	9.52	0.060	0.008	--	1.2	33.1	65.7

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

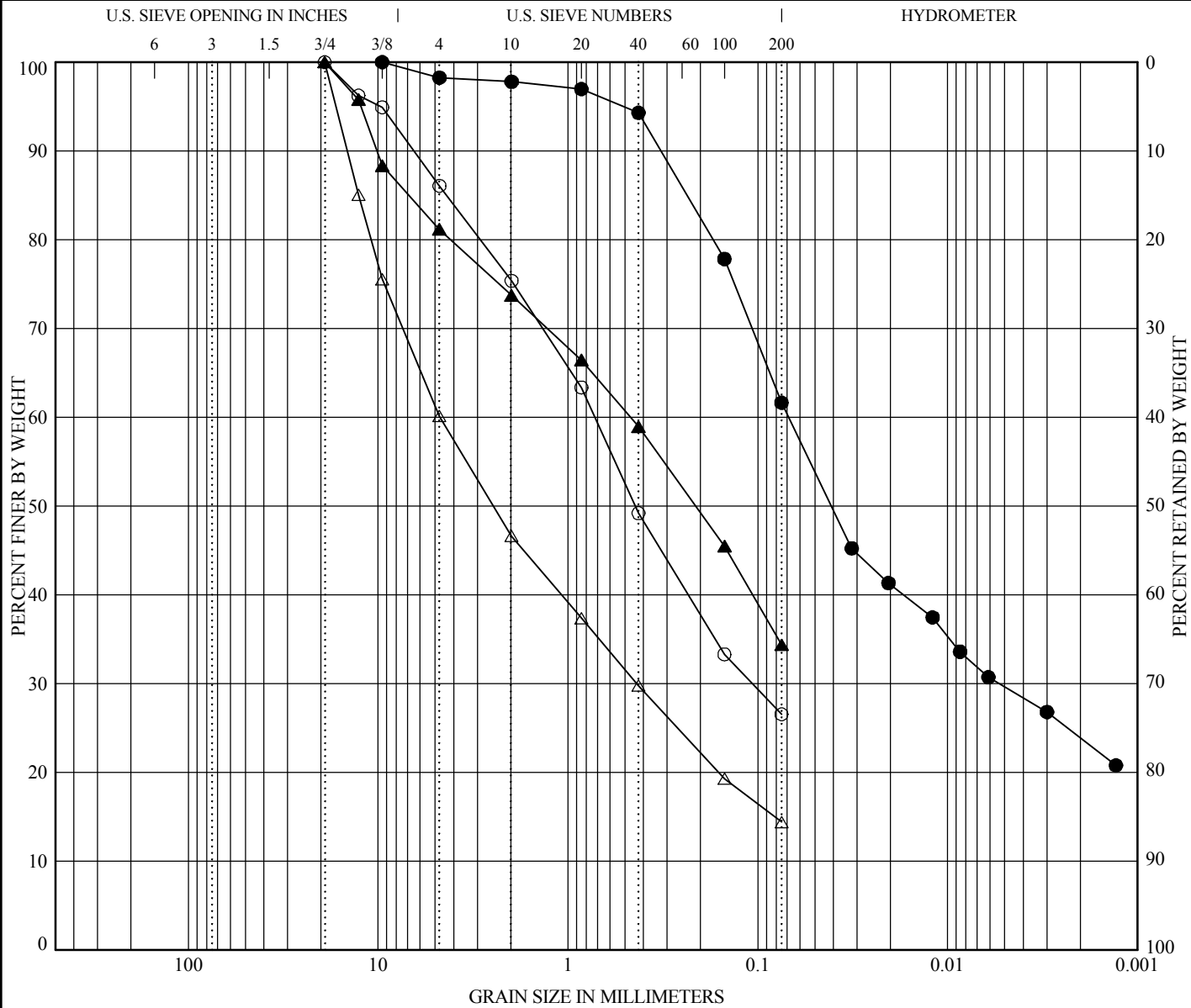
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 Figure: F-6.111

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-162	55.5	CLAYEY SAND (SC)	--	--	--	--	--
●	G-162	60.5	SANDY LEAN CLAY (CL)	--	--	--	--	--
△	G-162	70.5	CLAYEY SAND with GRAVEL (SC)	--	--	--	--	--
▲	G-162	87.5	SILTY, CLAYEY SAND with GRAVEL (SC-SM)	29	22	7	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-162	55.5	19.10	0.721	0.107	--	13.9	59.5	26.5
●	G-162	60.5	9.52	0.069	0.005	--	1.7	36.6	61.6
△	G-162	70.5	19.10	4.707	0.434	--	39.9	45.7	14.4
▲	G-162	87.5	19.10	0.469	--	--	18.8	46.8	34.4

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

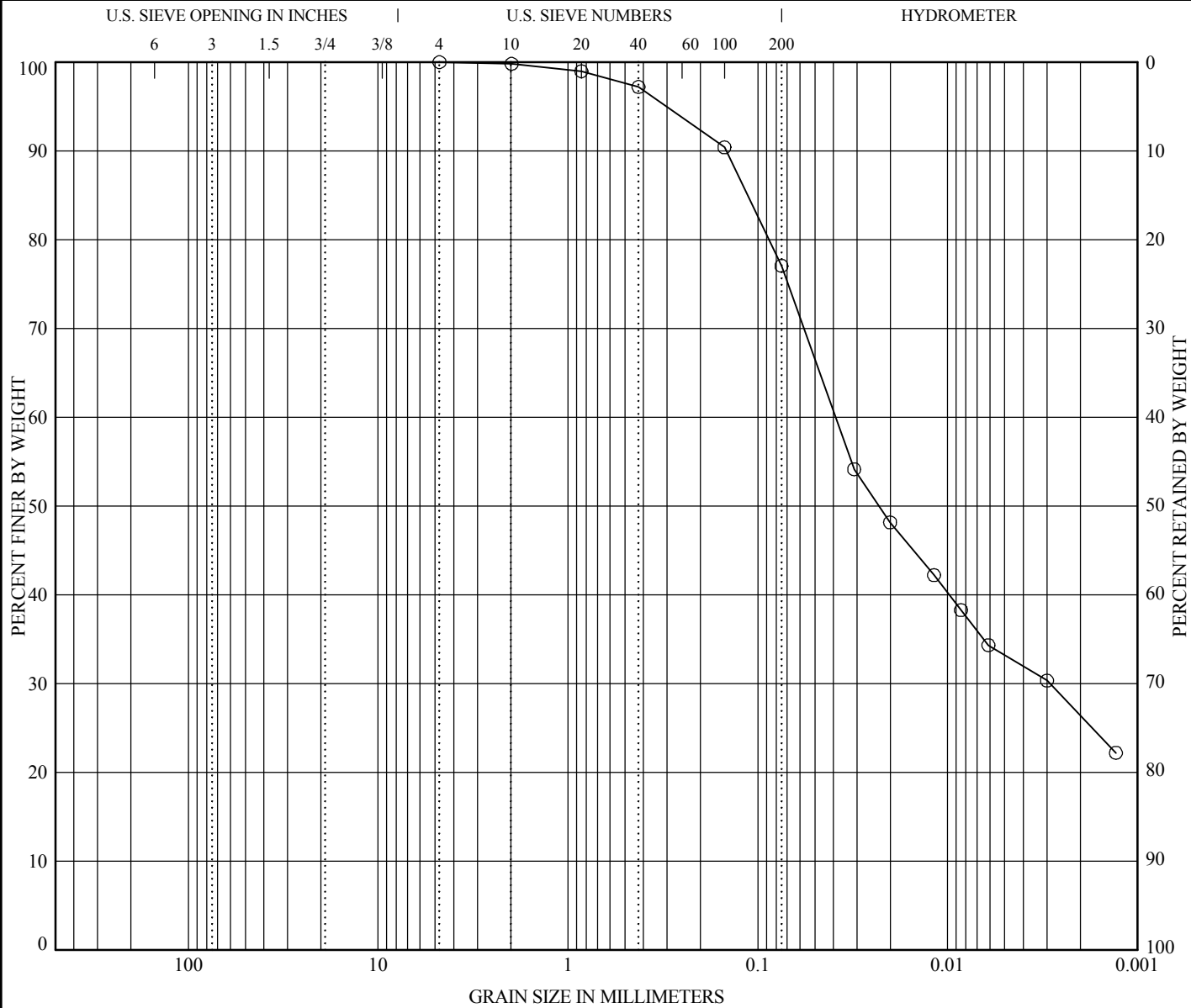
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-162	93.5	FAT CLAY with SAND (CH)	56	26	30	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-162	93.5	4.75	0.039	0.003	--	0.0	22.9	77.1

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

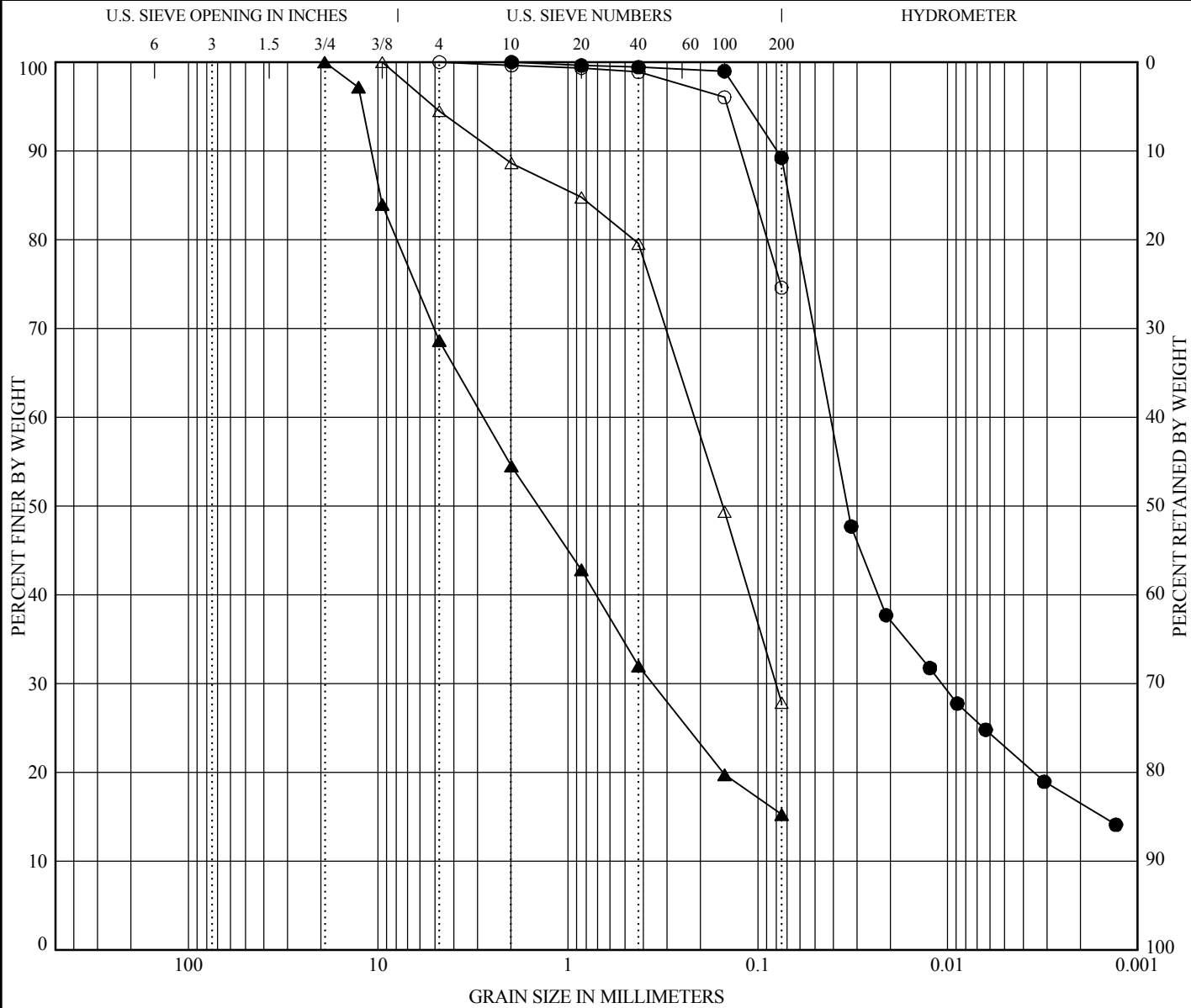
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 Figure: F-6.113

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-164	25.5	SILT with SAND (ML)	--	--	--	--	--
●	G-164	33.5	SILT (ML)	36	27	9	--	--
△	G-164	36.5	SILTY SAND (SM)	--	--	--	--	--
▲	G-164	42.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-164	25.5	4.75	--	--	--	0.0	25.4	74.6
●	G-164	33.5	1.98	0.041	0.011	--	0.0	10.8	89.2
△	G-164	36.5	9.52	0.216	0.080	--	5.5	66.6	27.8
▲	G-164	42.5	19.10	2.784	0.359	--	31.4	53.4	15.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

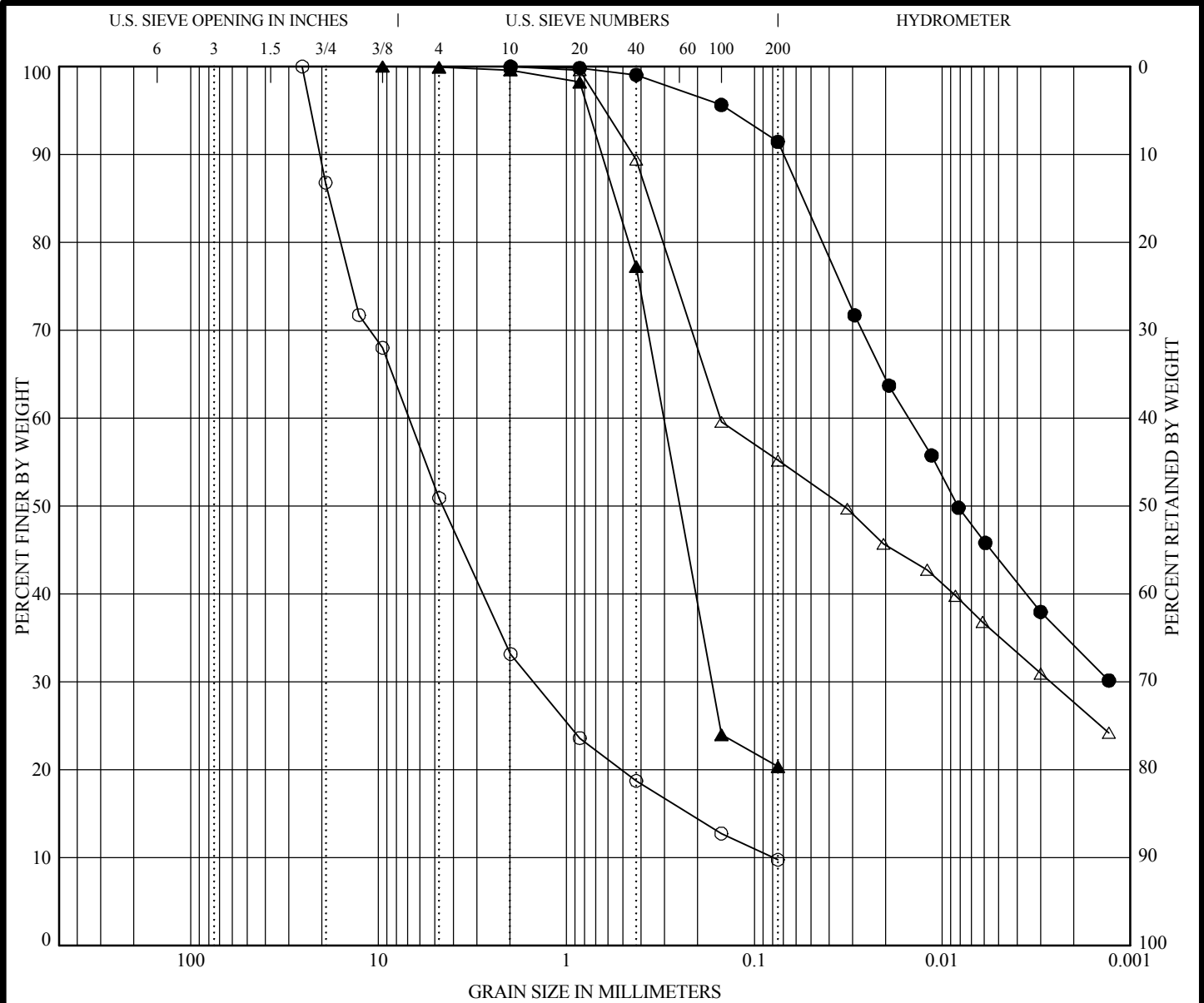
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-164	48.5	POORLY GRADED GRAVEL with SILT and SAND (GP-GM)	--	--	--	4.1	86.5
●	G-164	51.5	FAT CLAY (CH)	50	27	23	--	--
△	G-164	57.5	SANDY FAT CLAY (CH)	--	--	--	--	--
▲	G-164	60.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-164	48.5	25.40	6.874	1.497	0.079	49.1	41.2	9.8
●	G-164	51.5	1.98	0.015	--	--	0.0	8.6	91.4
△	G-164	57.5	1.98	0.152	0.003	--	0.0	44.8	55.2
▲	G-164	60.5	9.52	0.303	0.169	--	0.1	79.6	20.4

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

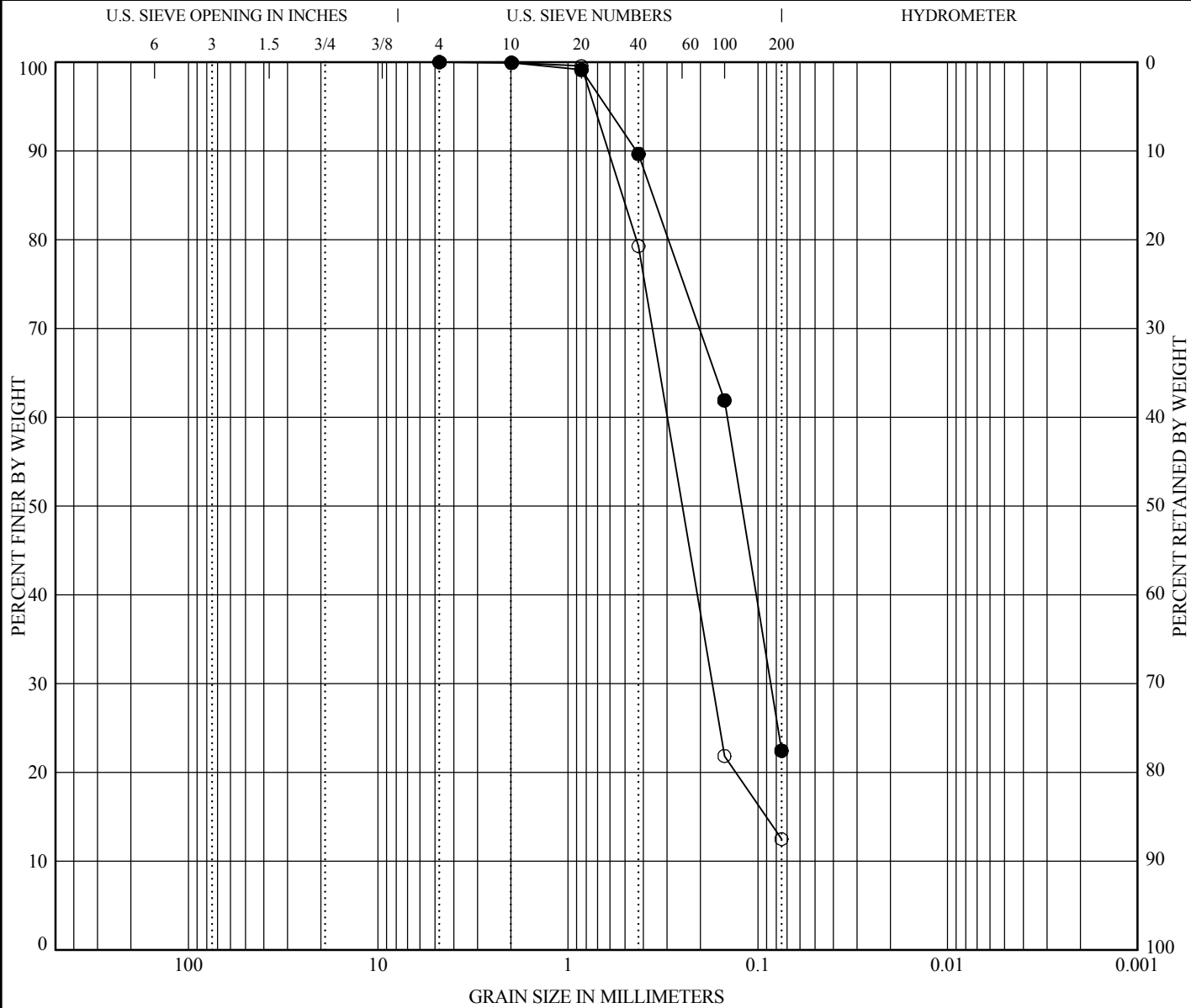
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-164	69.5	SILTY SAND (SM)	--	--	--	1.6	4.8
●	G-164	90.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-164	69.5	4.75	0.300	0.174	--	0.0	87.5	12.5
●	G-164	90.5	4.75	0.145	0.086	--	0.0	77.6	22.4

Laboratory Test Method: ASTM D 422

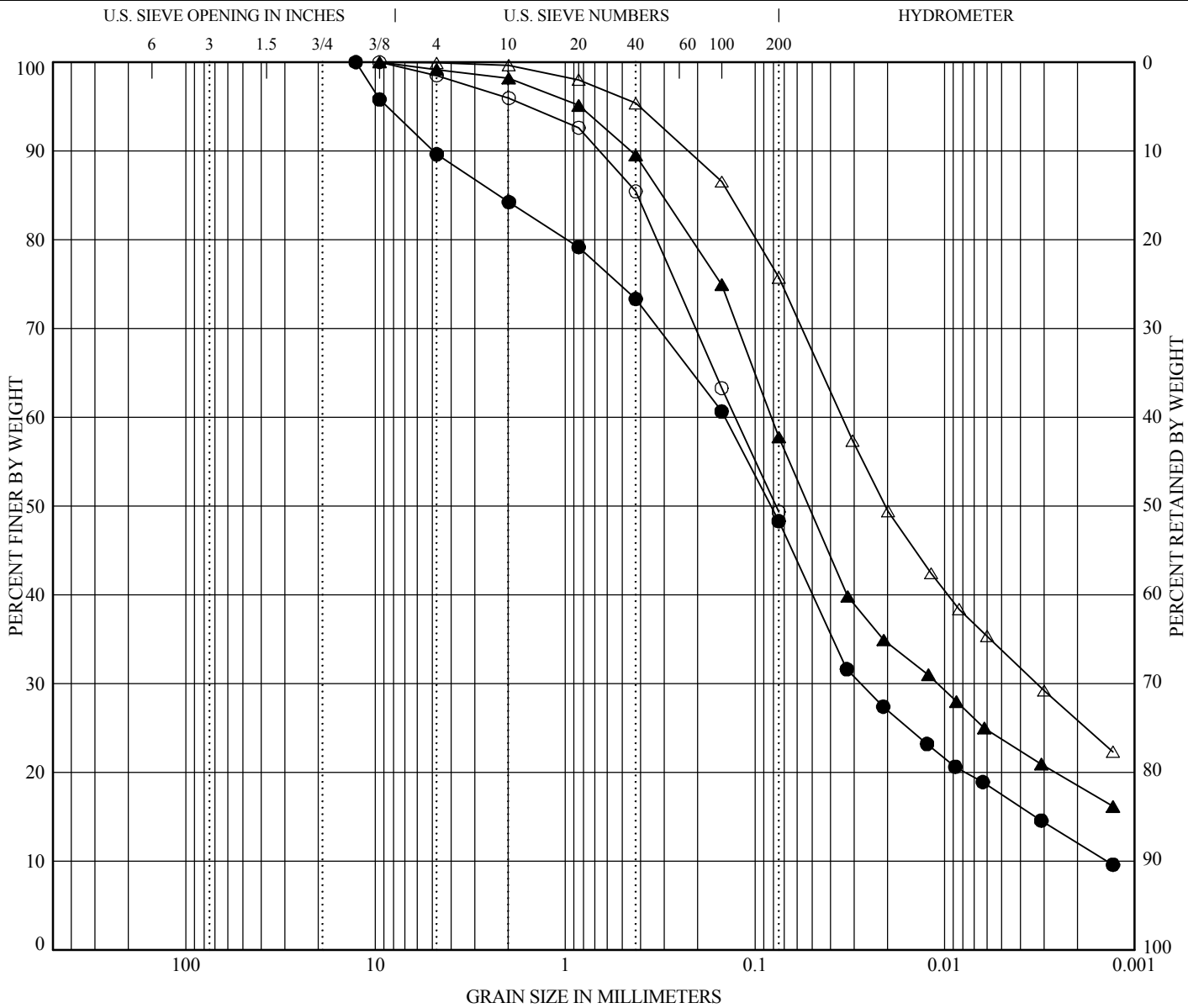
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.116



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-165	16.5	CLAYEY SAND (SC)	--	--	--	--	--
●	G-165	25.5	CLAYEY SAND (SC)	39	20	19	3.8	103.7
△	G-165	43.5	LEAN CLAY with SAND (CL)	--	--	--	--	--
▲	G-165	55.5	SANDY LEAN CLAY (CL)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-165	16.5	9.52	0.127	--	--	1.5	49.1	49.4
●	G-165	25.5	12.70	0.145	0.028	0.001	10.4	41.3	48.3
△	G-165	43.5	9.52	0.035	0.003	--	0.1	24.2	75.7
▲	G-165	55.5	9.52	0.082	0.011	--	0.8	41.4	57.8

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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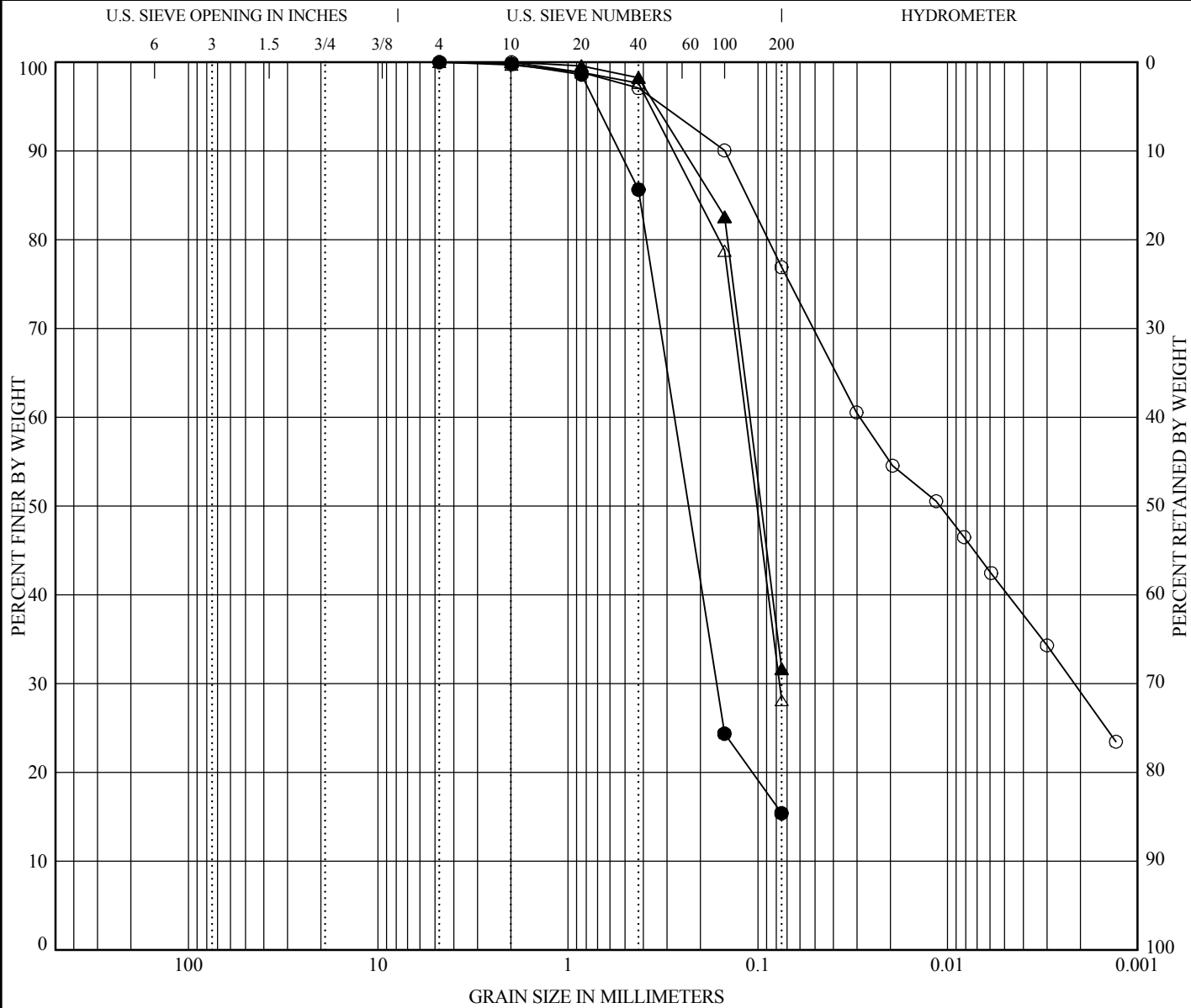
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Figure: F-6.117

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-165	67.5	LEAN CLAY with SAND (CL)	42	25	17	--	--
●	G-165	79.5	SILTY SAND (SM)	--	--	--	--	--
△	G-165	91.5	SILTY SAND (SM)	--	--	--	--	--
▲	G-165	103.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-165	67.5	1.98	0.029	0.002	--	0.0	23.1	76.9
●	G-165	79.5	4.75	0.275	0.165	--	0.0	84.6	15.4
△	G-165	91.5	4.75	0.116	0.077	--	0.0	71.9	28.1
▲	G-165	103.5	1.98	0.110	--	--	0.0	68.3	31.7

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

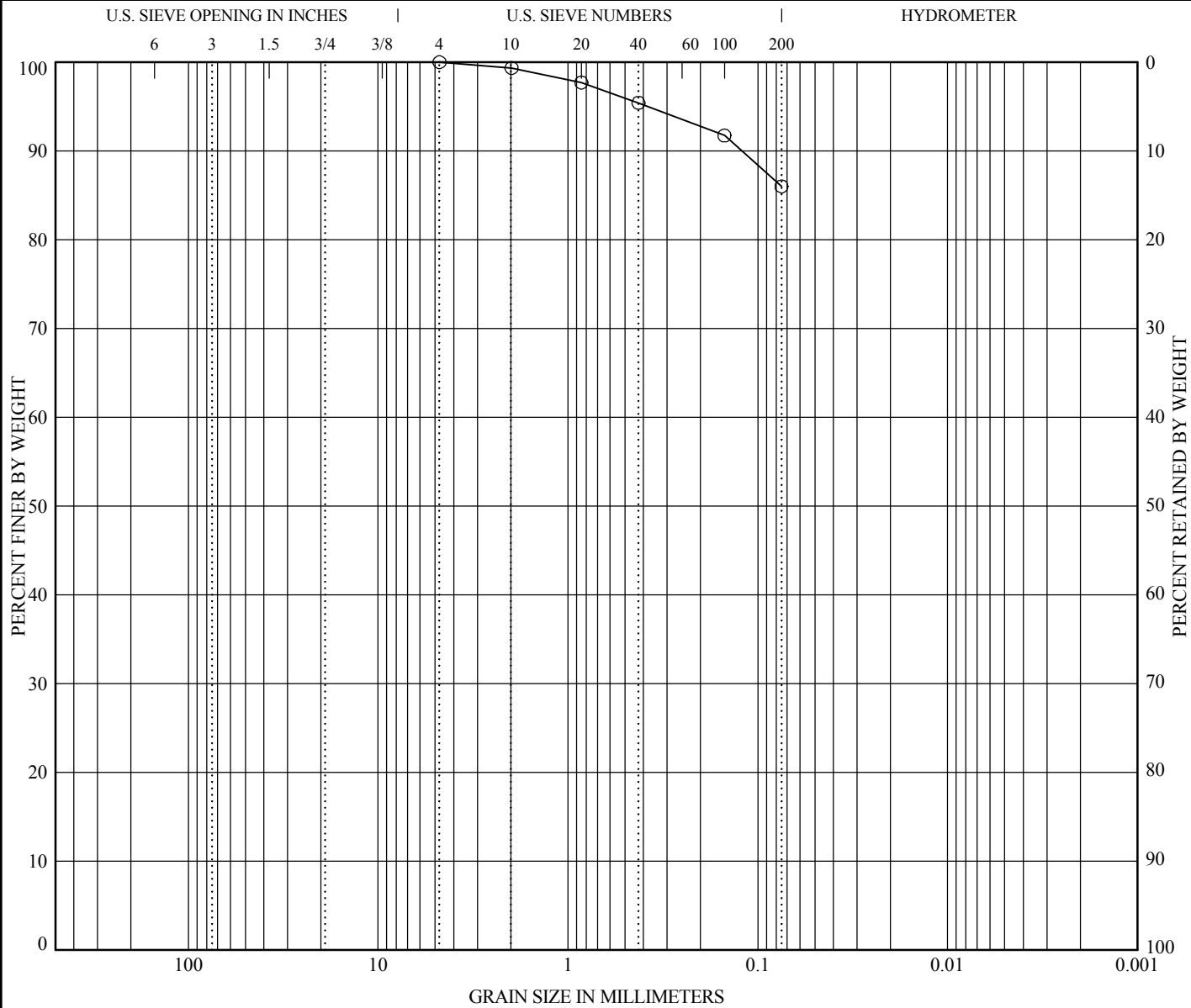
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 Figure: F-6.118

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-165	120.5	ELASTIC SILT (MH)	51	30	21	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-165	120.5	4.75	--	--	--	0.0	14.0	86.0

Laboratory Test Method: ASTM D 422

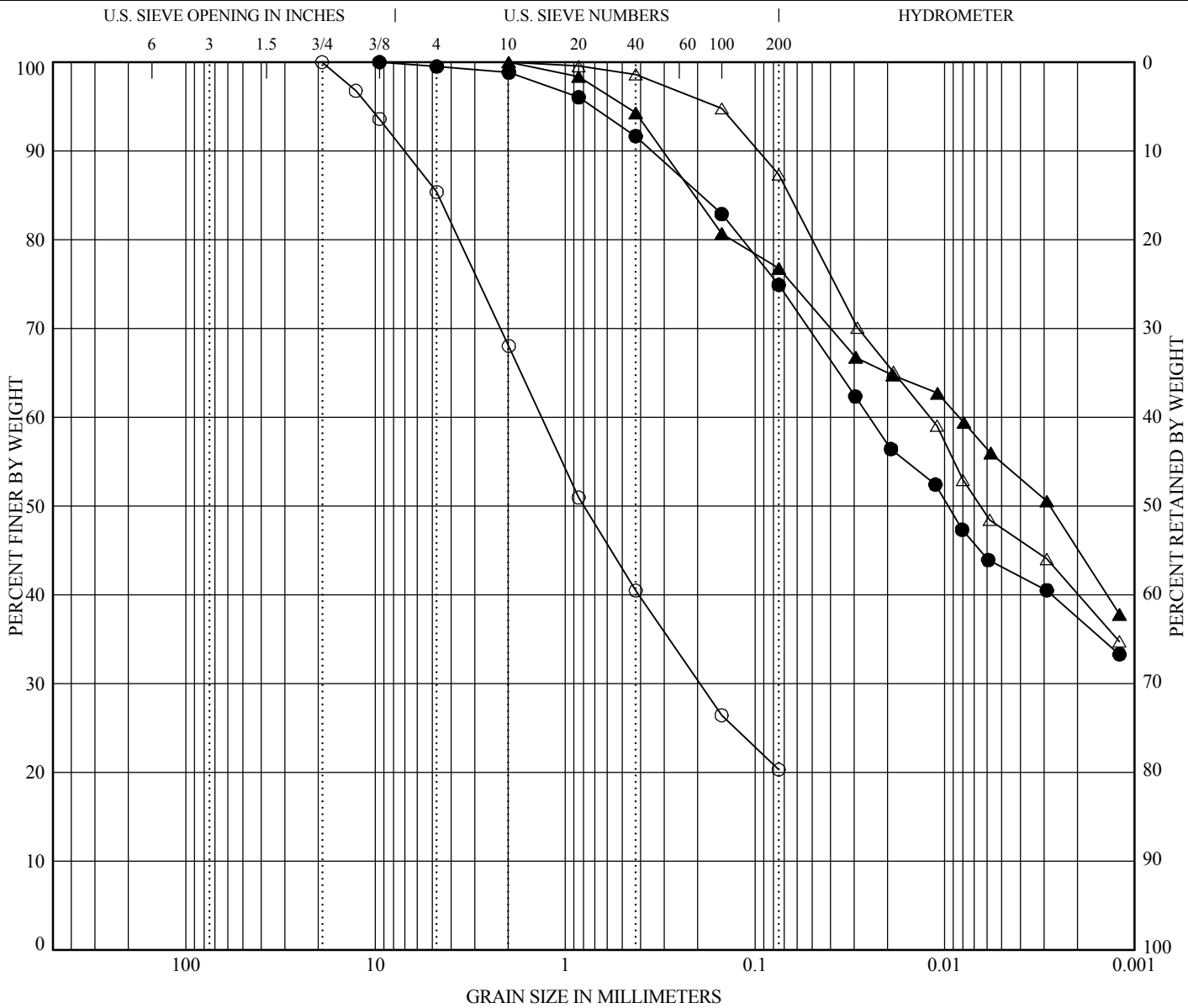
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Project No.: 4953-10-1561
 Figure: F-6.119



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-166A/B	13.5	SILTY SAND (SM)	--	--	--	--	--
●	G-166A/B	25.5	LEAN CLAY with SAND (CL)	--	--	--	--	--
△	G-166A/B	52.5	LEAN CLAY (CL)	46	18	28	--	--
▲	G-166A/B	62.5	FAT CLAY with SAND (CH)	55	28	27	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-166A/B	13.5	19.10	1.330	0.195	--	14.6	65.1	20.3
●	G-166A/B	25.5	9.52	0.025	--	--	0.5	24.6	74.9
△	G-166A/B	52.5	1.98	0.012	--	--	0.0	12.7	87.3
▲	G-166A/B	62.5	1.98	0.008	--	--	0.0	23.2	76.8

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

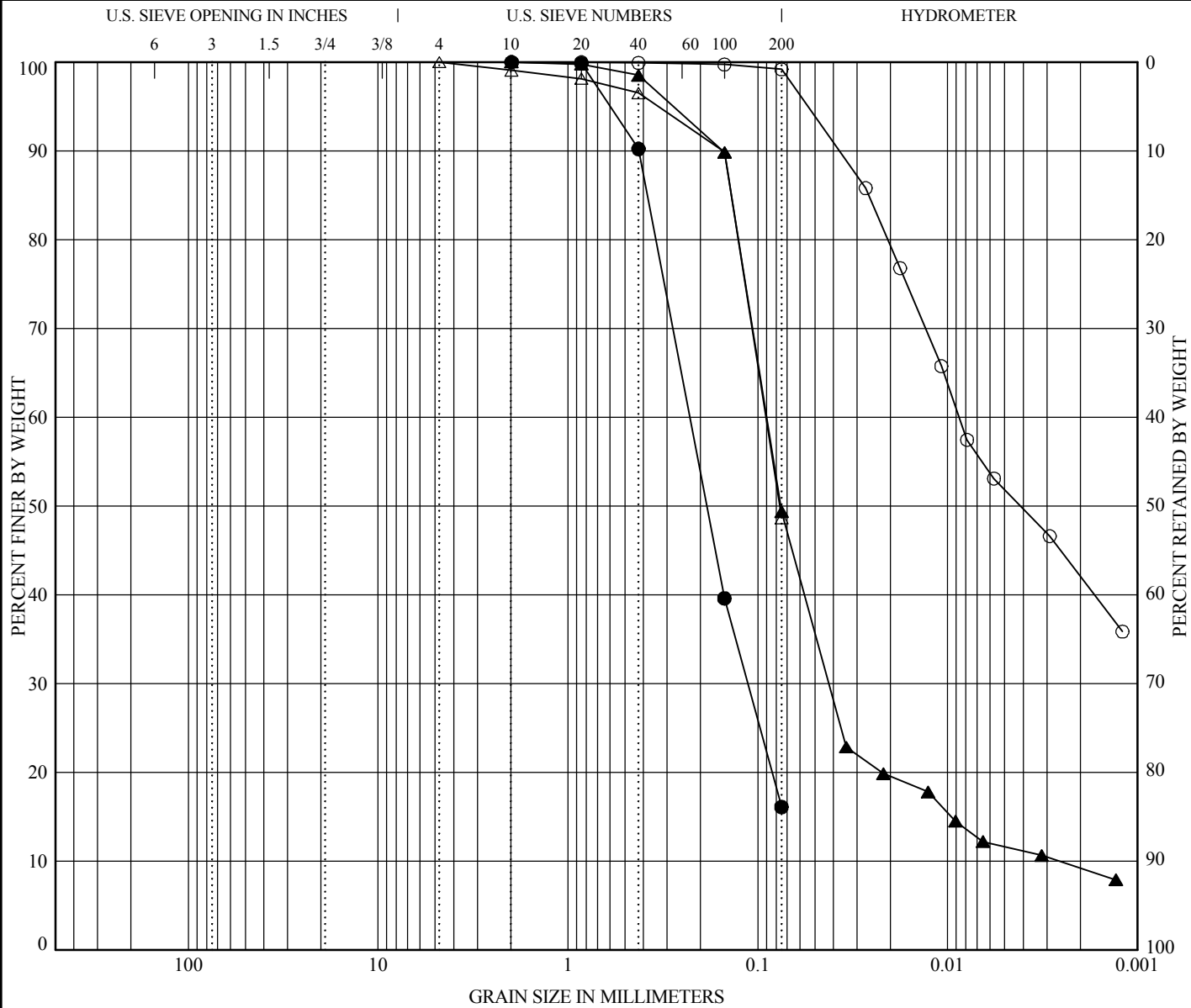
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-166A/B	68.5	ELASTIC SILT (MH)	82	43	39	--	--
●	G-166A/B	85.0	SILTY SAND (SM)	--	--	--	--	--
△	G-166A/B	100.5	SILTY SAND (SM)	--	--	--	--	--
▲	G-166A/B	105.5	SILTY SAND (SM)	NP	NP	NP	7.6	34.8

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-166A/B	68.5	1.98	0.009	--	--	0.0	0.8	99.2
●	G-166A/B	85.0	1.98	0.228	0.113	--	0.0	83.9	16.1
△	G-166A/B	100.5	4.75	0.091	--	--	0.0	51.4	48.6
▲	G-166A/B	105.5	1.98	0.090	0.042	0.003	0.0	50.7	49.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

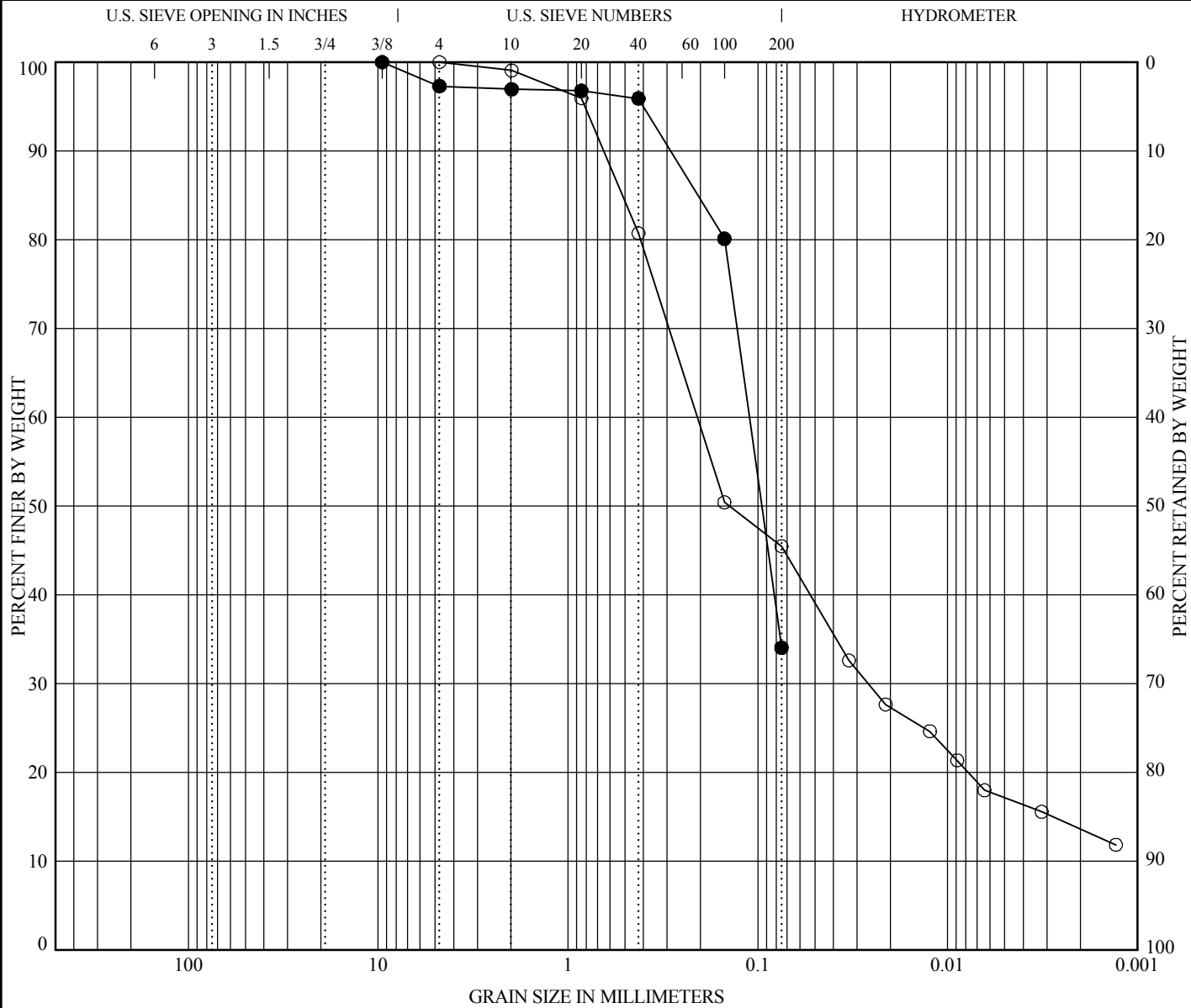
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-166A/B	115.5	CLAYEY SAND (SC)	24	13	11	--	--
●	G-166A/B	140.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-166A/B	115.5	4.75	0.209	0.026	--	0.0	54.5	45.5
●	G-166A/B	140.5	9.52	0.111	--	--	2.7	63.3	34.0

Laboratory Test Method: ASTM D 422

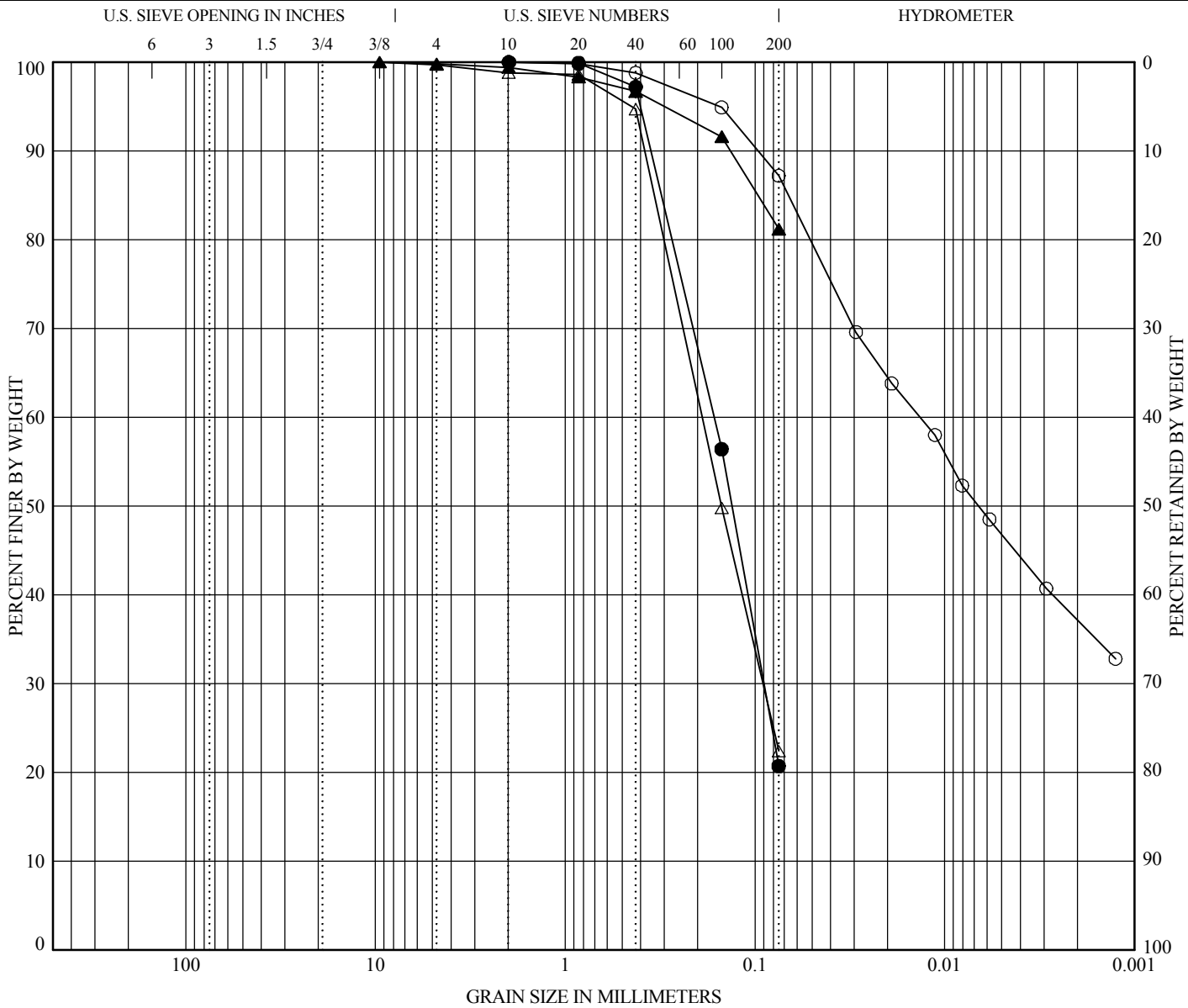
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.122



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-168 38.5	LEAN CLAY (CL)	--	--	--	--	--
●	G-168 67.5	SILTY SAND (SM)	--	--	--	--	--
△	G-168 82.5	SILTY SAND (SM)	--	--	--	--	--
▲	G-168 97.5	FAT CLAY with SAND (CH)	51	27	24	--	--

SYMBOL	BORING DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-168 38.5	1.98	0.013	--	--	0.0	12.8	87.2
●	G-168 67.5	1.98	0.164	0.090	--	0.0	79.3	20.7
△	G-168 82.5	9.52	0.190	0.091	--	0.3	77.3	22.4
▲	G-168 97.5	9.52	--	--	--	0.2	18.6	81.2

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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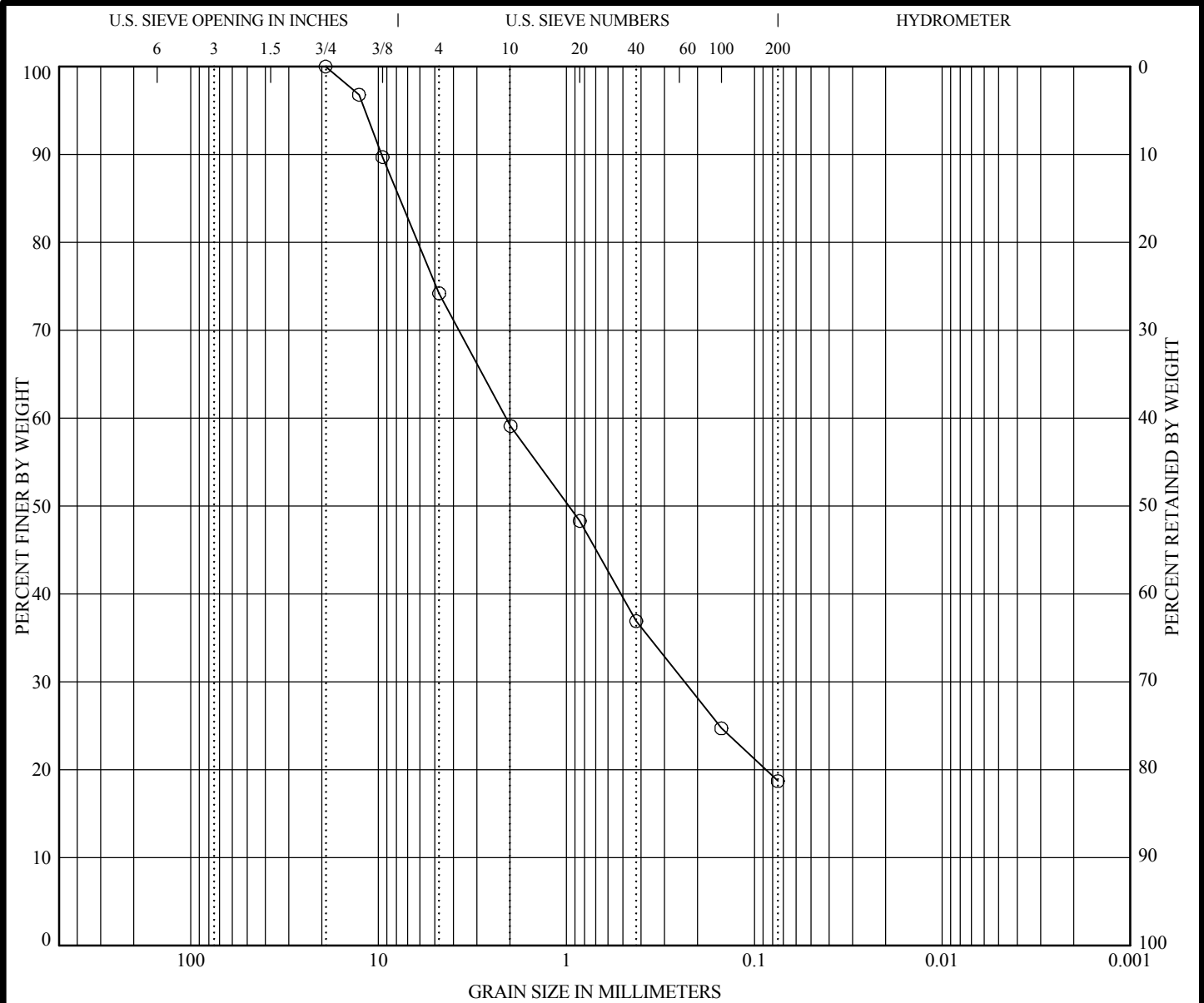
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Figure: F-6.123

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-168	111.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-168	111.5	19.10	2.086	0.236	--	25.8	55.5	18.7

Laboratory Test Method: ASTM D 422

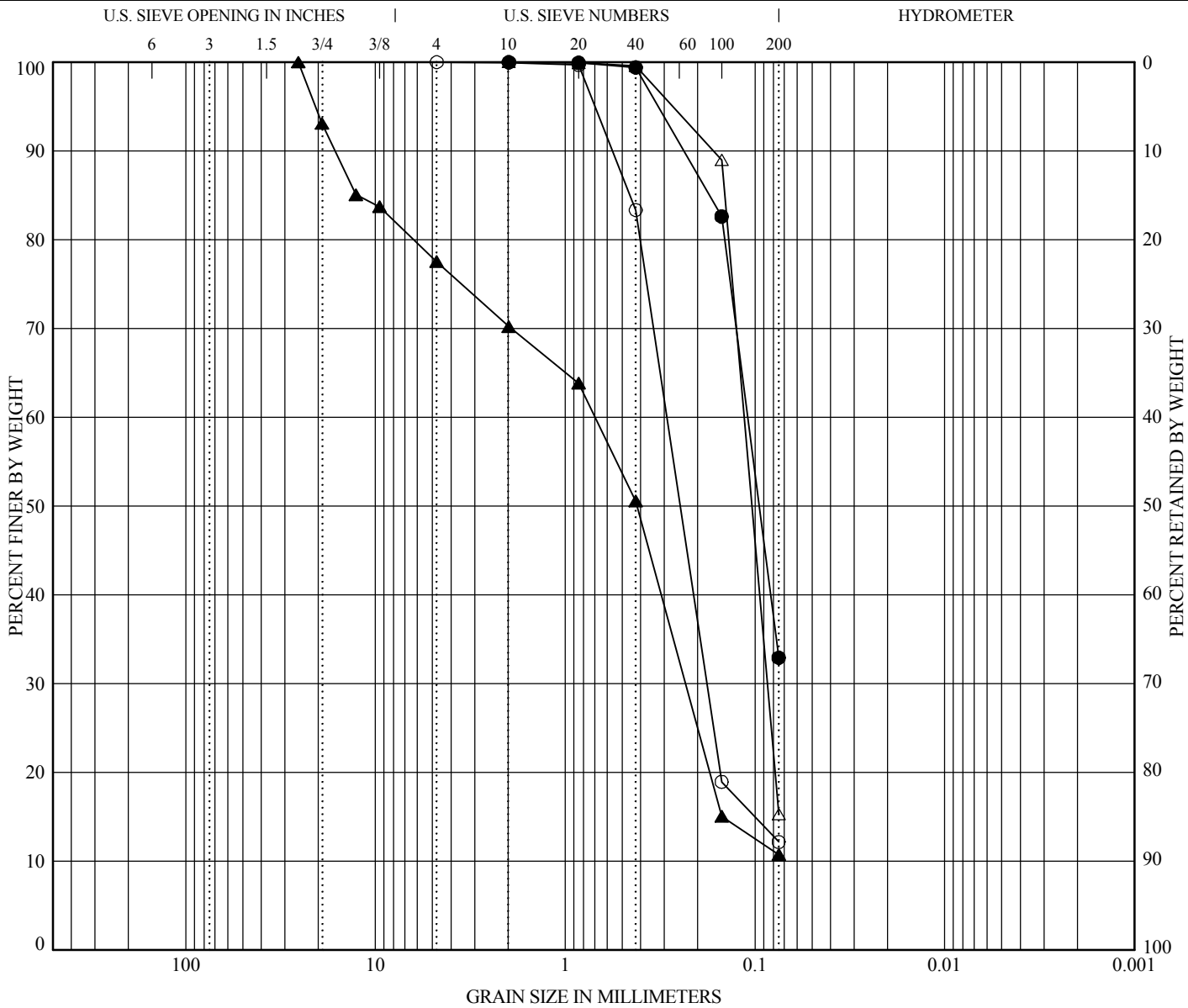
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 Figure: F-6.124



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-169	38.5	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.8	4.8
●	G-169	67.5	SILTY SAND (SM)	--	--	--	--	--
△	G-169	77.5	SILTY SAND (SM)	--	--	--	--	--
▲	G-169	85.5	WELL GRADED SAND with SILT and GRAVEL (SW-SM)	--	--	--	1.2	10.5

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-169	38.5	4.75	0.291	0.179	--	0.0	87.8	12.2
●	G-169	67.5	1.98	0.109	--	--	0.0	67.1	32.9
△	G-169	77.5	1.98	0.114	0.086	--	0.0	84.7	15.3
▲	G-169	85.5	25.40	0.696	0.233	--	22.5	66.8	10.7

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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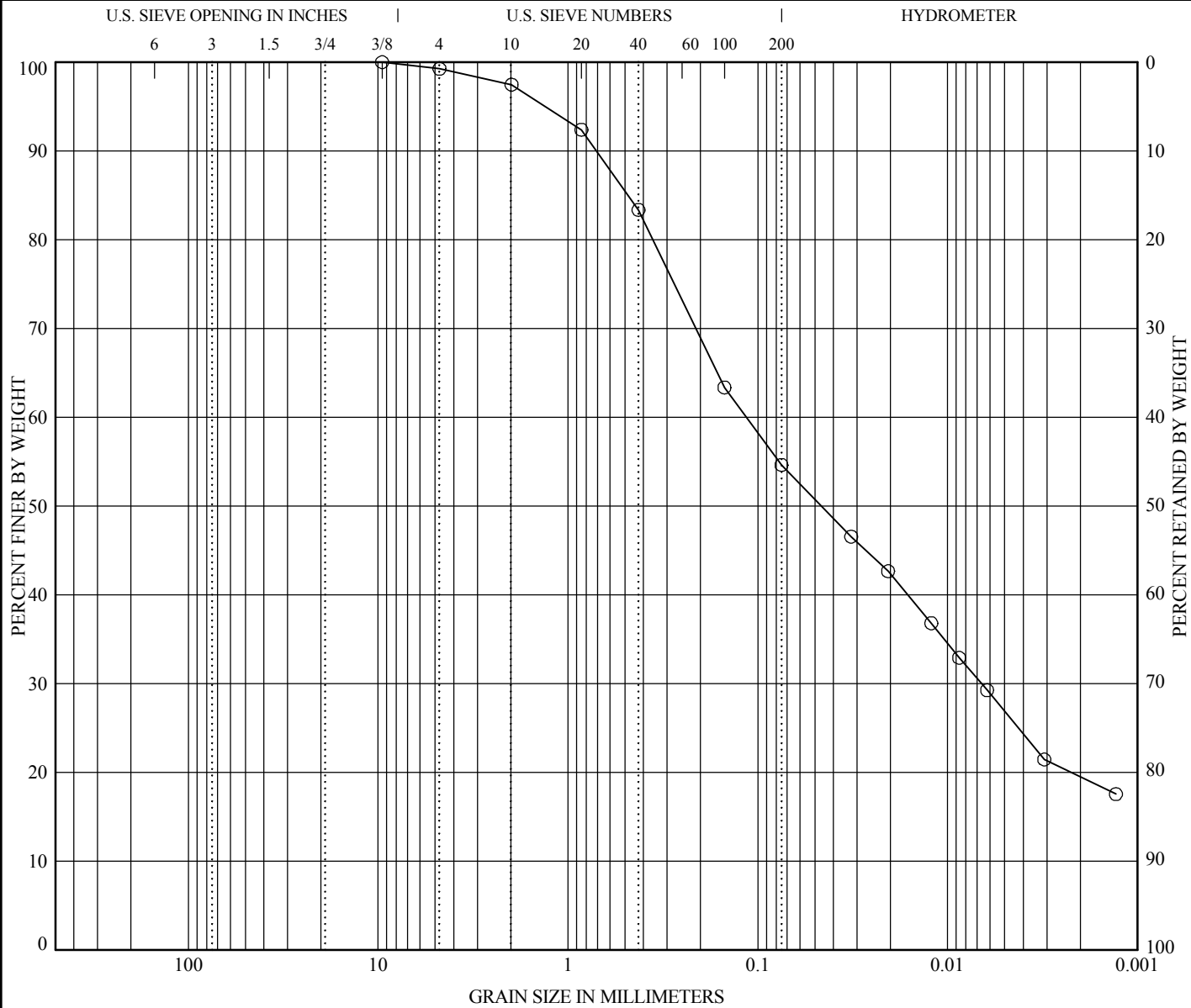
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Figure: F-6.125

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-169	95.5	SANDY LEAN CLAY (CL)	36	19	17	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-169	95.5	9.52	0.115	0.007	--	0.7	44.6	54.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

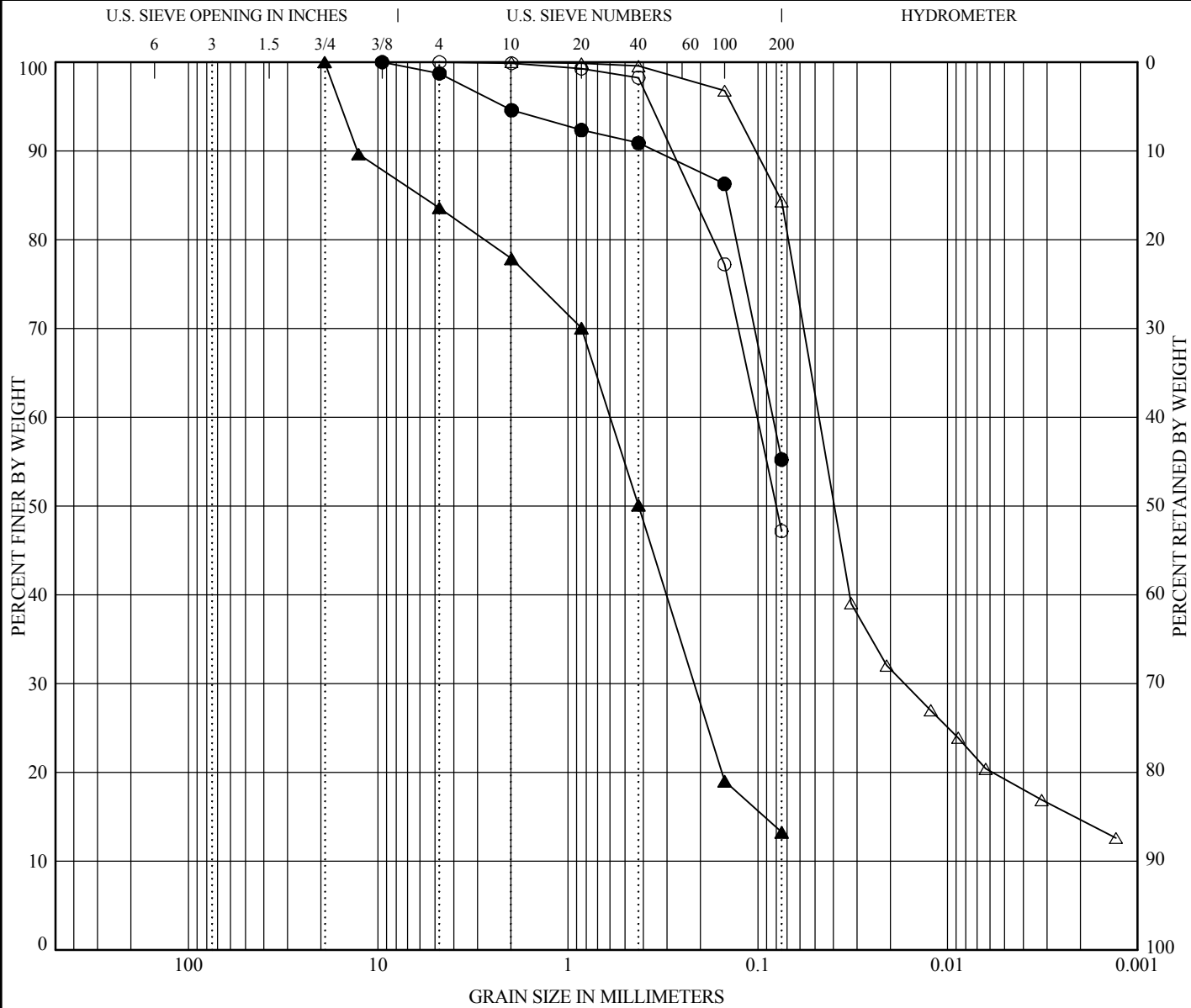
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-171	53.0	SILTY SAND (SM)	--	--	--	--	--
●	G-171	60.5	SANDY SILT (ML)	--	--	--	--	--
△	G-171	63.5	SILT with SAND (ML)	--	--	--	--	--
▲	G-171	70.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-171	53.0	4.75	0.101	--	--	0.0	52.8	47.2
●	G-171	60.5	9.52	0.083	--	--	1.3	43.5	55.2
△	G-171	63.5	1.98	0.048	0.017	--	0.0	15.7	84.3
▲	G-171	70.5	19.10	0.600	0.217	--	16.4	70.3	13.2

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

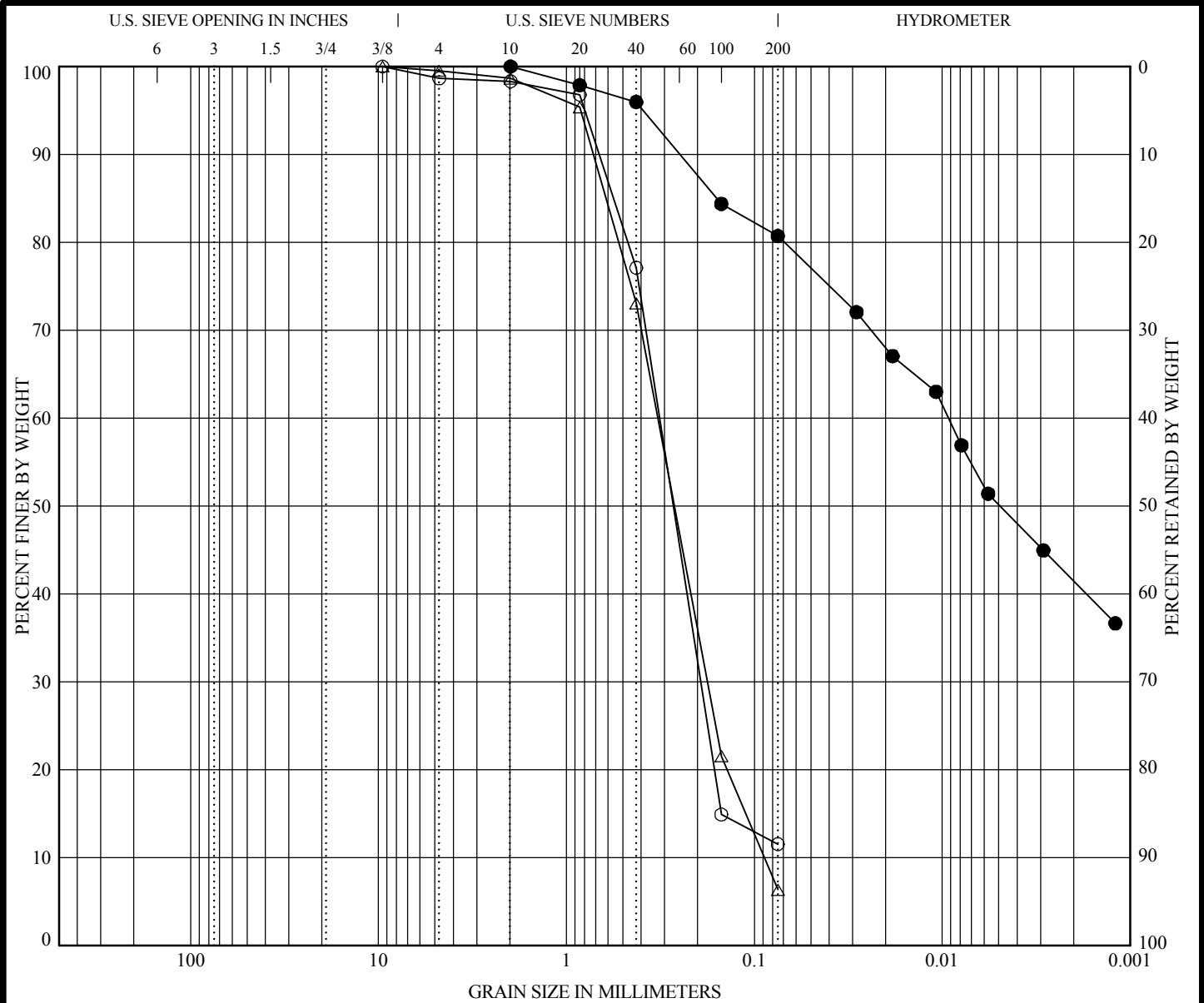
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-171	75.5	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	2.1	5.8
●	G-171	80.5	SILT with SAND (ML)	NP	NP	NP	--	--
△	G-171	88.0	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.1	3.7

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-171	75.5	9.52	0.319	0.193	--	1.3	87.1	11.5
●	G-171	80.5	1.98	0.009	--	--	0.0	19.3	80.7
△	G-171	88.0	9.52	0.326	0.178	0.089	0.5	93.2	6.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

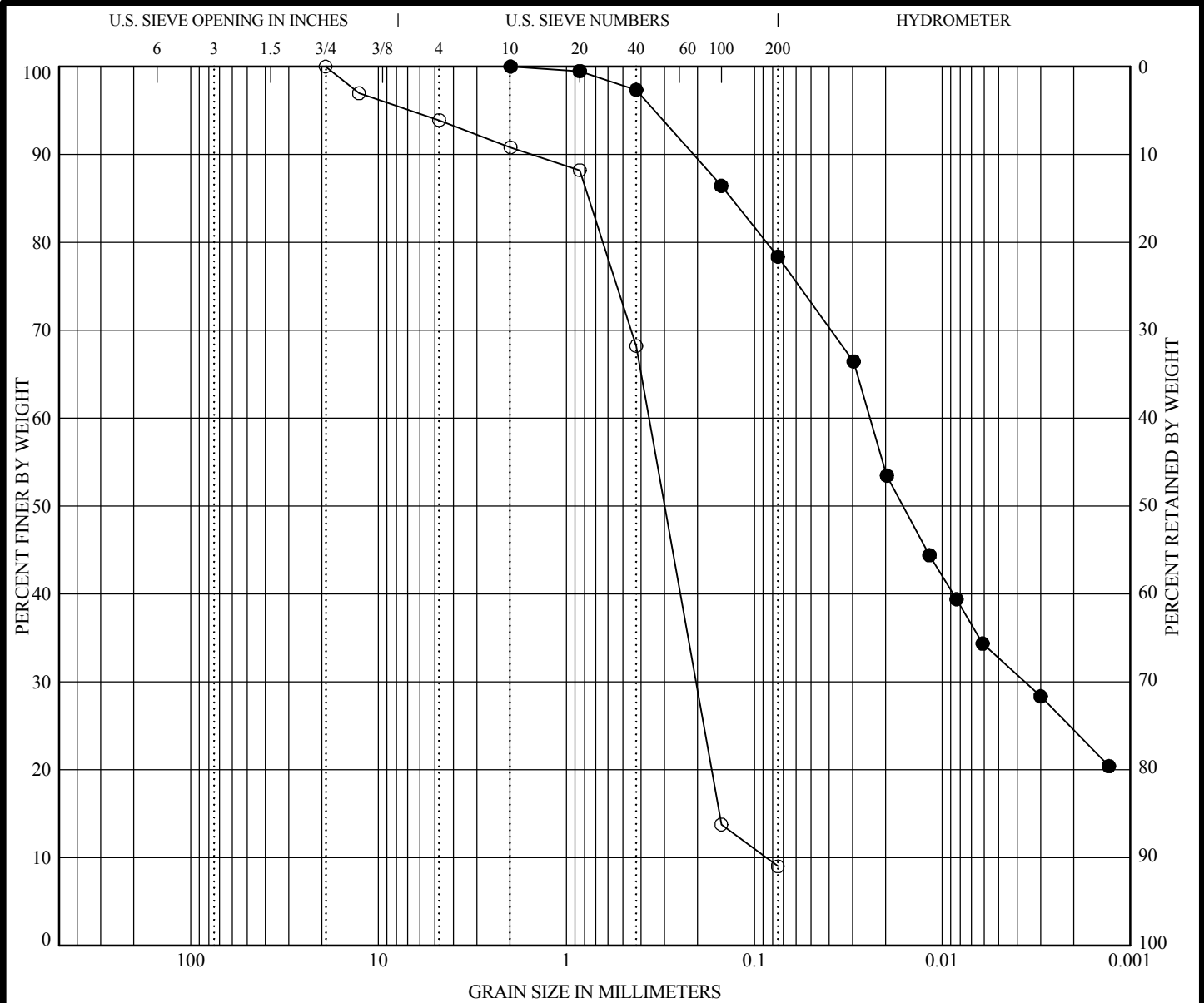
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 Figure: F-6.128

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-173	93.5	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.3	4.2
●	G-173	100.5	ELASTIC SILT with SAND (MH)	55	31	24	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-173	93.5	19.10	0.363	0.205	0.087	6.1	84.9	9.0
●	G-173	100.5	1.98	0.024	0.004	--	0.0	21.6	78.4

Laboratory Test Method: ASTM D 422

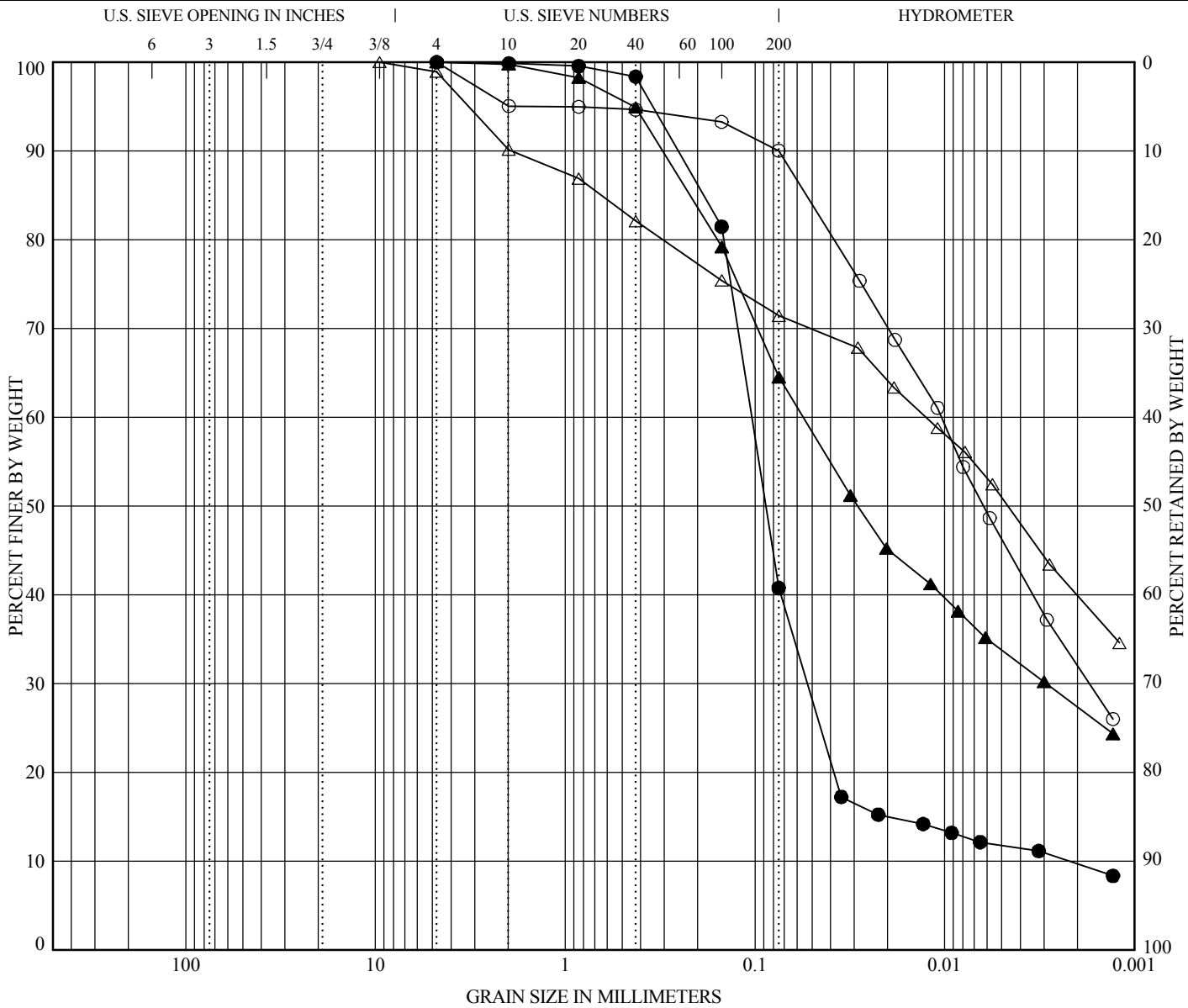
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 Figure: F-6.130



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-174A	10.5	LEAN CLAY (CL)	--	--	--	--	--
●	G-174A	30.5	CLAYEY SAND (SC)	--	--	--	12.2	46.9
△	G-174A	80.5	LEAN CLAY with SAND (CL)	39	21	18	--	--
▲	G-174A	90.5	SANDY LEAN CLAY (CL)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-174A	10.5	4.75	0.010	0.002	--	0.0	10.0	90.0
●	G-174A	30.5	4.75	0.104	0.053	0.002	0.0	59.2	40.8
△	G-174A	80.5	9.52	0.013	--	--	1.1	27.5	71.4
▲	G-174A	90.5	4.75	0.056	0.003	--	0.0	35.5	64.5

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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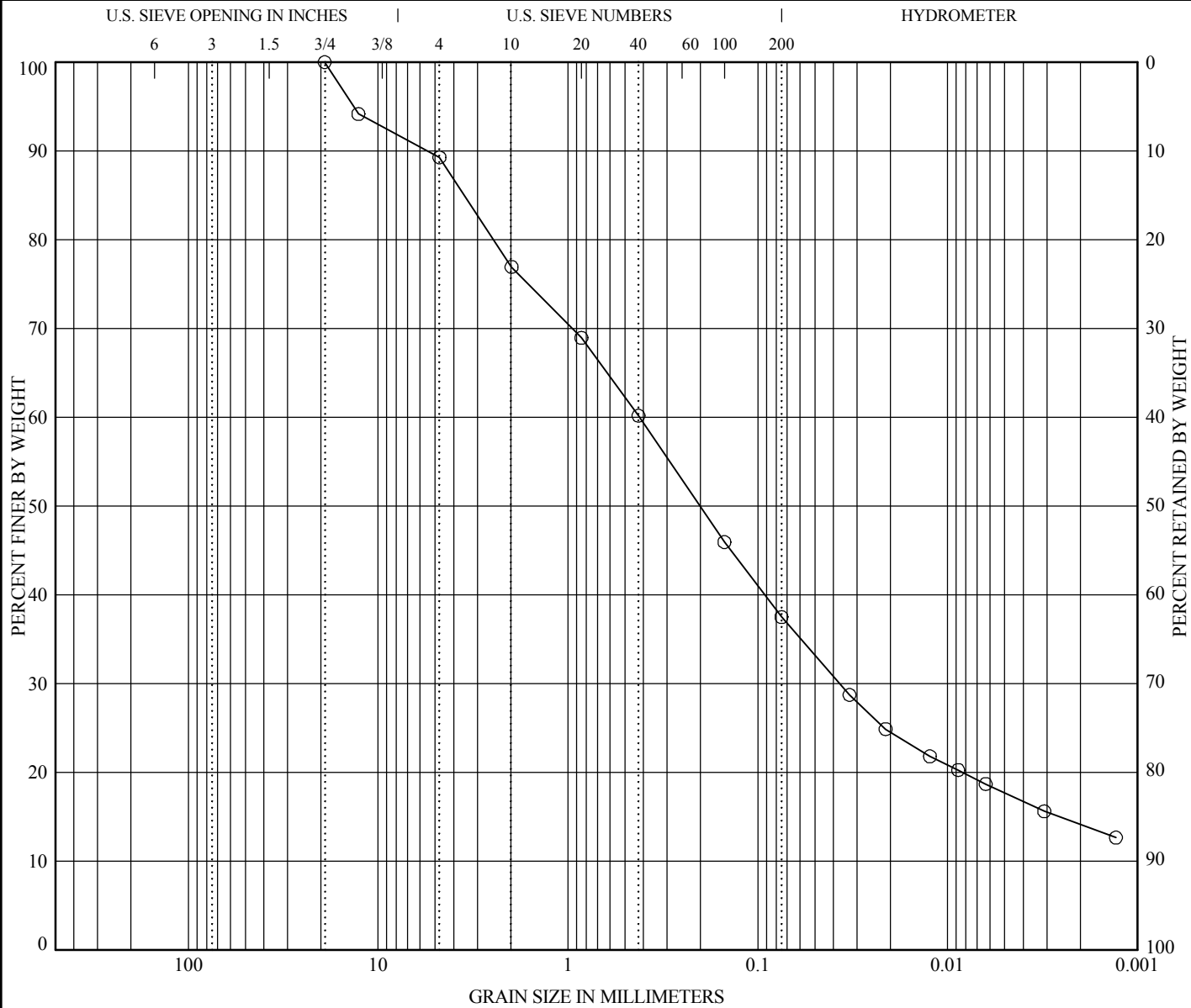
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Figure: F-6.131

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-174A	105.5	CLAYEY SAND (SC)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-174A	105.5	19.10	0.420	0.037	--	10.7	51.8	37.5

Laboratory Test Method: ASTM D 422

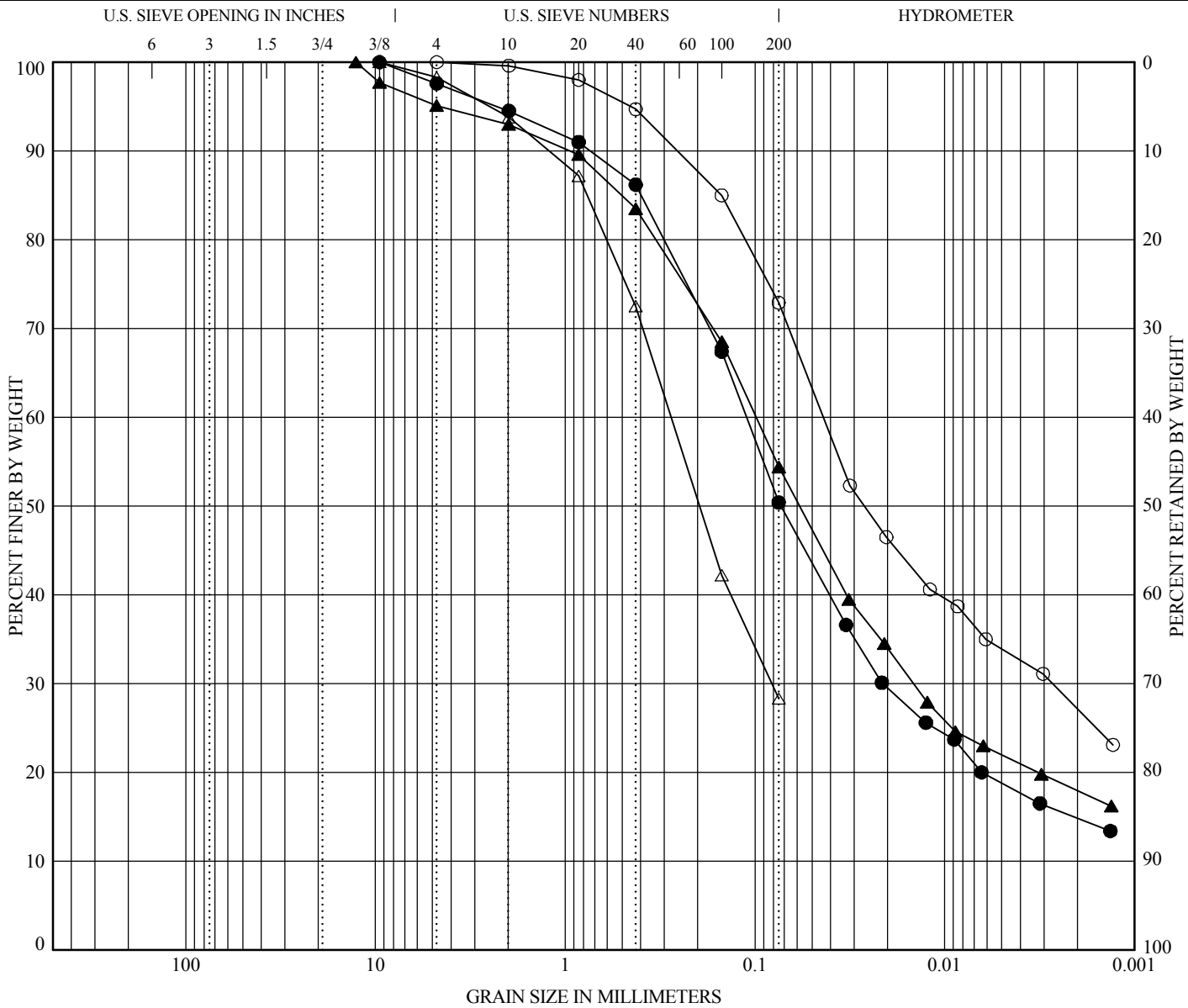
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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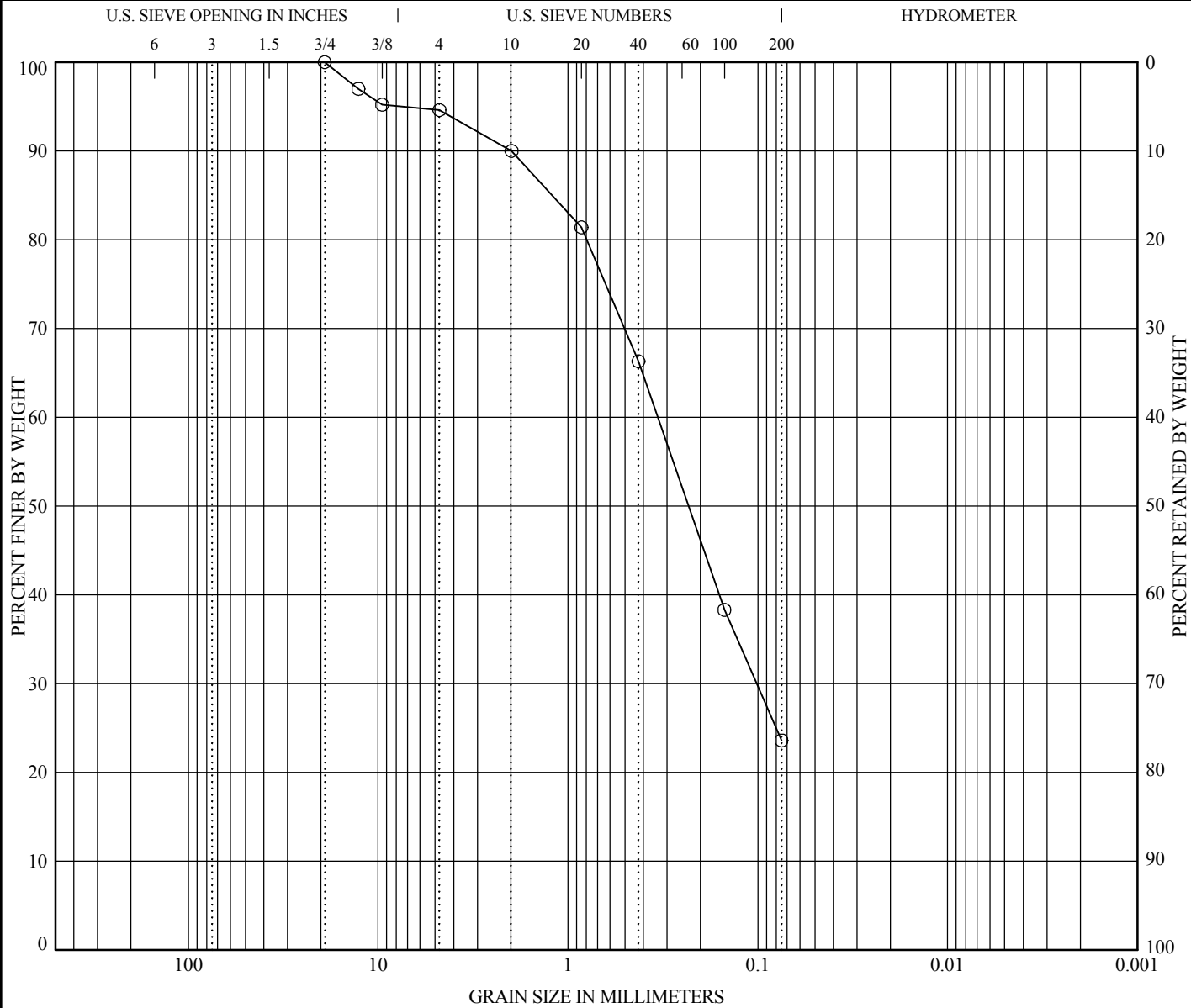
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PARTICLE SIZE DISTRIBUTION
 Project No.: 4953-10-1561
 Figure: F-6.132



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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-175	135.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-175	135.5	19.10	0.336	0.101	--	5.4	71.0	23.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

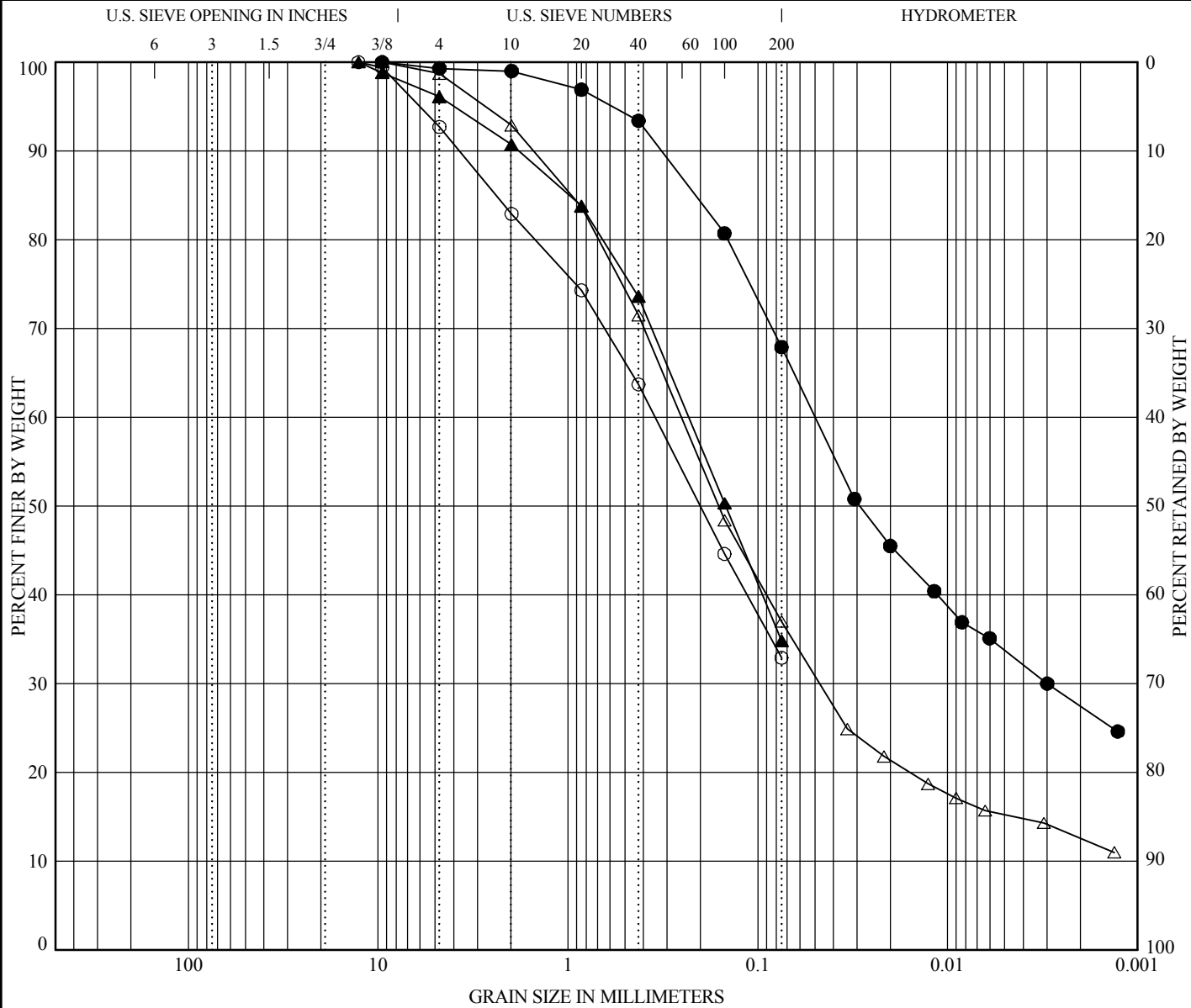
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 Figure: F-6.134

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-176	84.5	SILTY SAND (SM)	--	--	--	--	--
●	G-176	95.5	SANDY LEAN CLAY (CL)	40	20	20	--	--
△	G-176	102.5	CLAYEY SAND (SC)	28	20	8	--	--
▲	G-176	115.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-176	84.5	12.70	0.347	--	--	7.3	59.8	32.9
●	G-176	95.5	9.52	0.050	0.003	--	0.7	31.4	67.9
△	G-176	102.5	9.52	0.253	0.047	--	1.3	61.7	37.0
▲	G-176	115.5	12.70	0.231	--	--	3.9	61.3	34.8

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

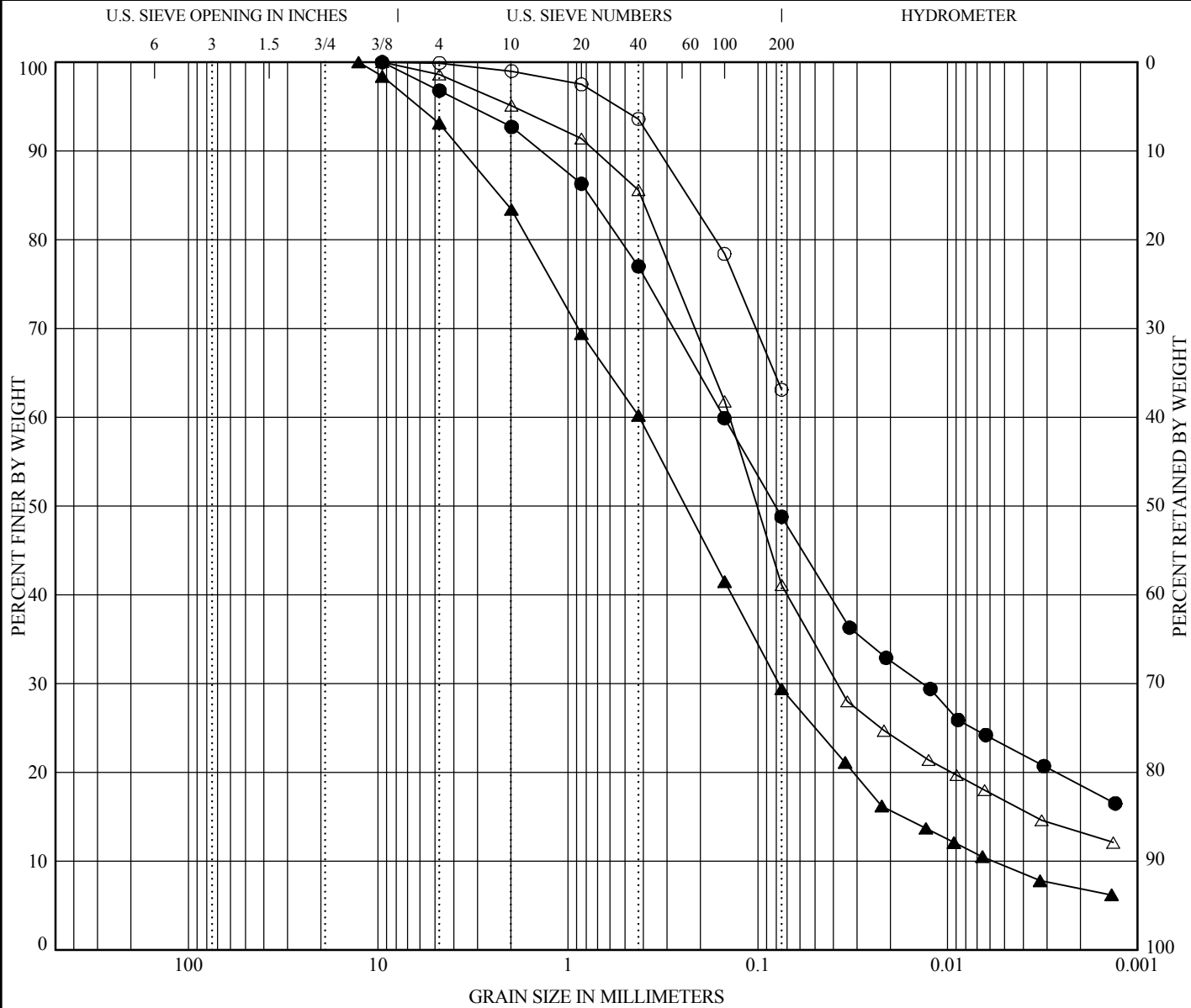
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 Figure: F-6.135

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-177	83.0	SANDY LEAN CLAY (CL)	--	--	--	--	--
●	G-177	95.5	CLAYEY SAND (SC)	31	17	14	--	--
△	G-177	100.5	SILTY SAND (SM)	--	--	--	--	--
▲	G-177	110.5	SILTY SAND (SM)	--	--	--	2.5	72.9

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-177	83.0	9.52	--	--	--	0.1	36.8	63.1
●	G-177	95.5	9.52	0.151	0.014	--	3.2	48.0	48.8
△	G-177	100.5	9.52	0.141	0.038	--	1.4	57.5	41.1
▲	G-177	110.5	12.70	0.420	0.078	0.006	6.9	63.7	29.4

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

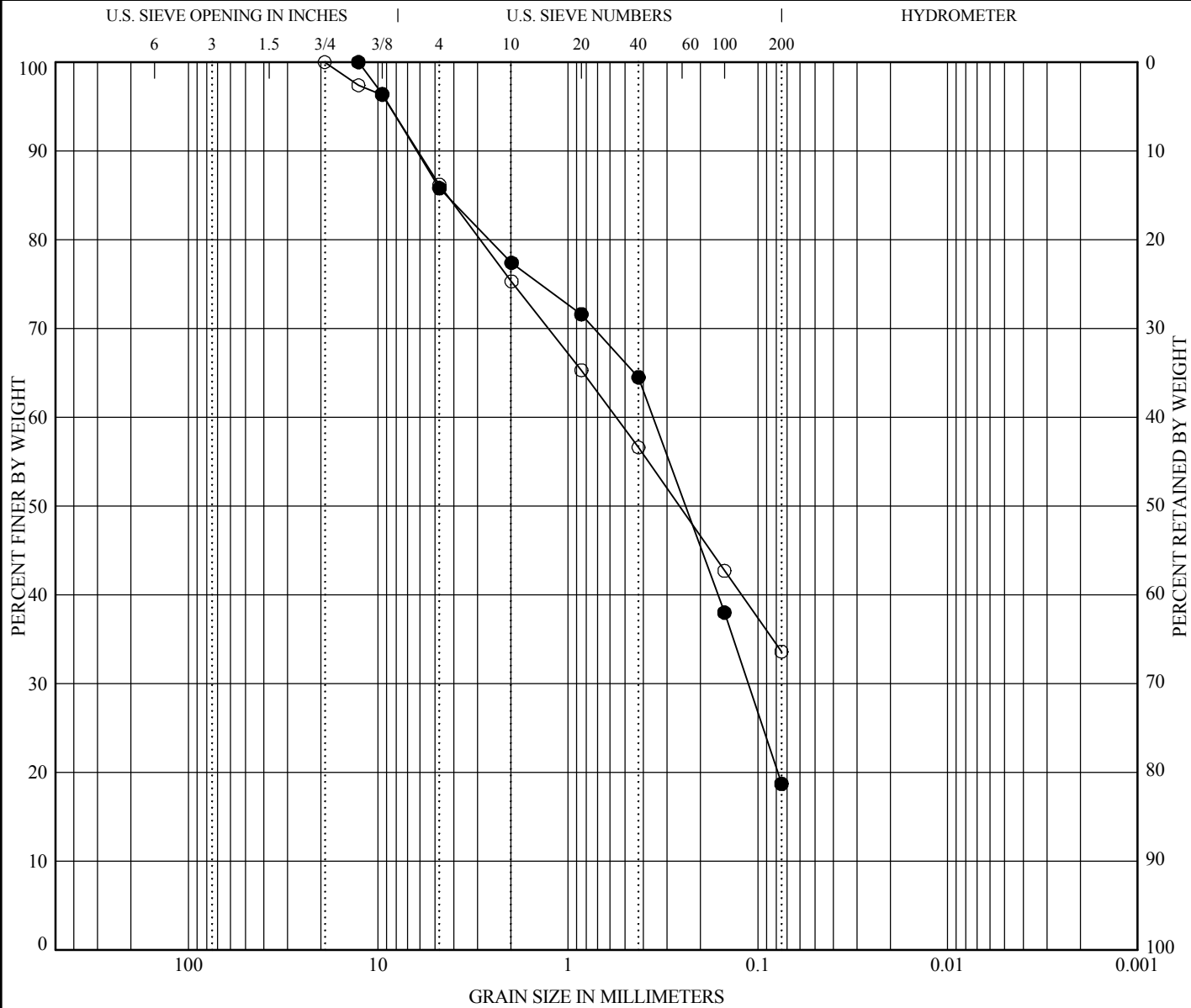
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 Figure: F-6.136

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-177	120.0	SILTY SAND (SM)	--	--	--	--	--
●	G-177	125.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-177	120.0	19.10	0.557	--	--	13.8	52.6	33.6
●	G-177	125.5	12.70	0.356	0.113	--	14.2	67.1	18.7

Laboratory Test Method: ASTM D 422

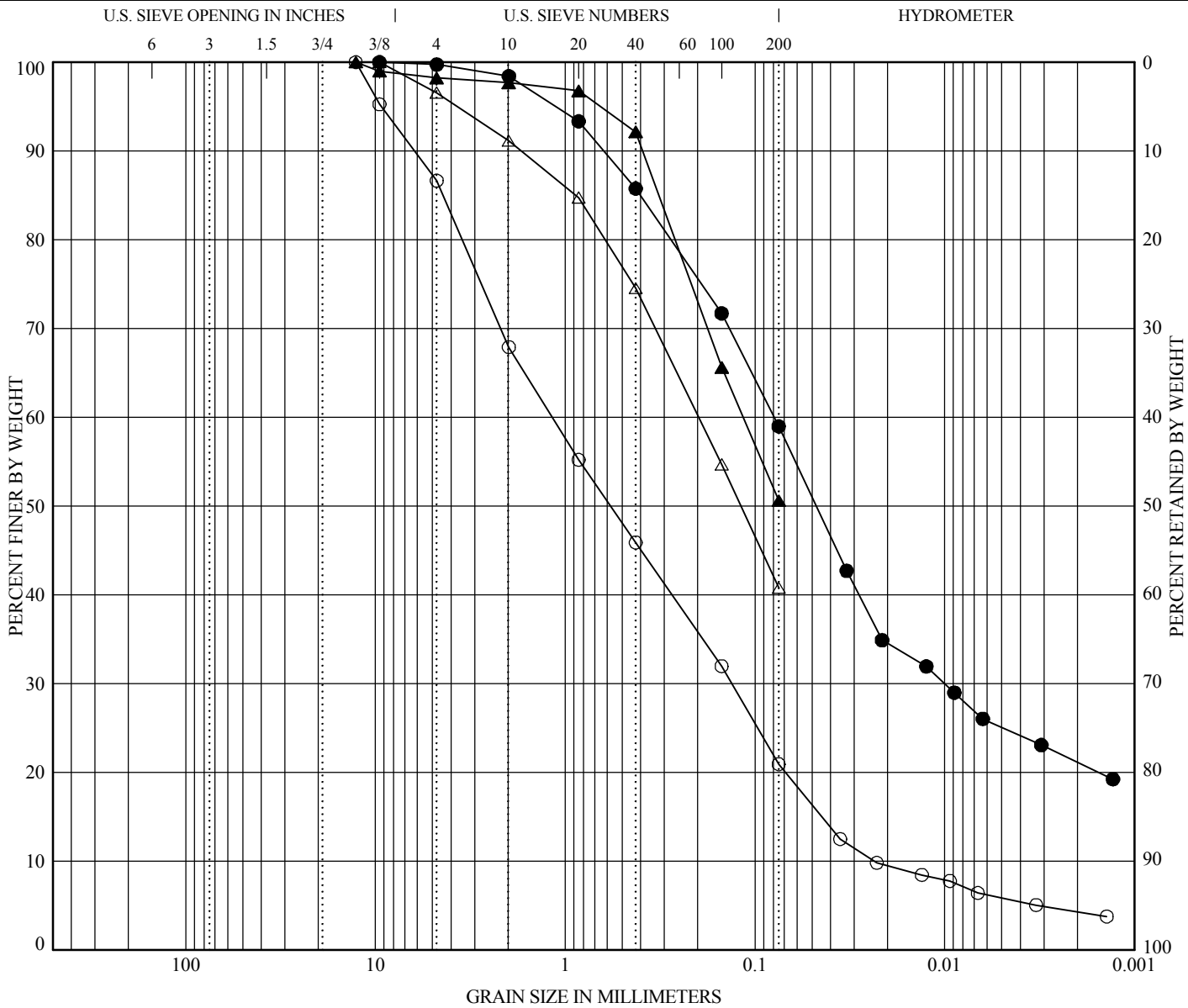
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.137



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-178	60.5	SILTY SAND (SM)	NP	NP	NP	0.6	49.7
●	G-178	68.0	SANDY LEAN CLAY (CL)	33	21	12	--	--
△	G-178	70.5	CLAYEY SAND (SC)	28	20	8	--	--
▲	G-178	73.0	SANDY LEAN CLAY (CL)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-178	60.5	12.70	1.170	0.133	0.024	13.4	65.7	20.9
●	G-178	68.0	9.52	0.079	0.010	--	0.3	40.8	59.0
△	G-178	70.5	9.52	0.198	--	--	3.4	55.8	40.8
▲	G-178	73.0	12.70	0.116	--	--	1.8	47.6	50.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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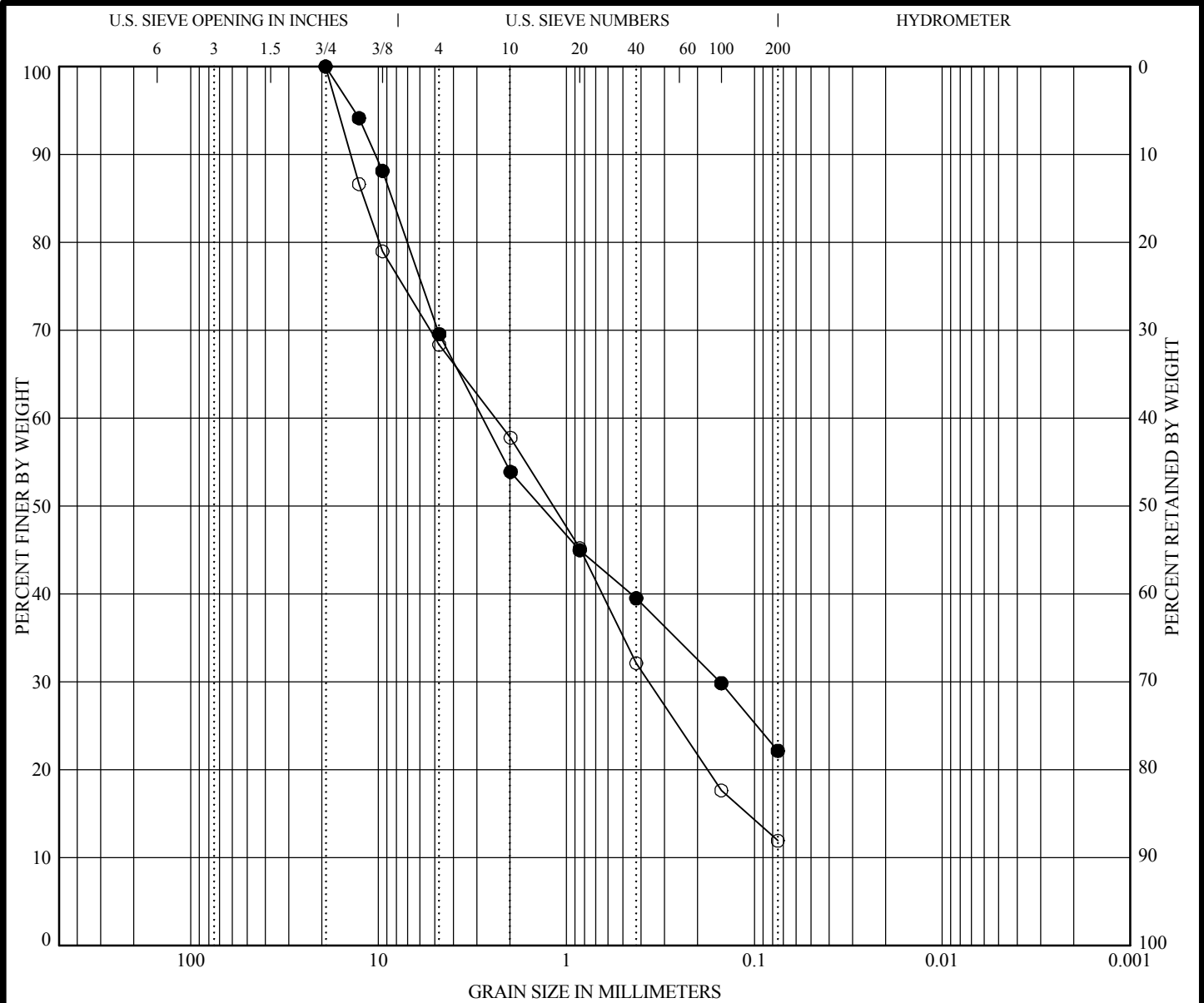
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Figure: F-6.138

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-178	83.0	POORLY GRADED SAND with SILT and GRAVEL (SP-SM)	--	--	--	0.9	40.0
●	G-178	90.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-178	83.0	19.10	2.382	0.365	--	31.7	56.4	11.9
●	G-178	90.5	19.10	2.787	0.153	--	30.5	47.4	22.1

Laboratory Test Method: ASTM D 422

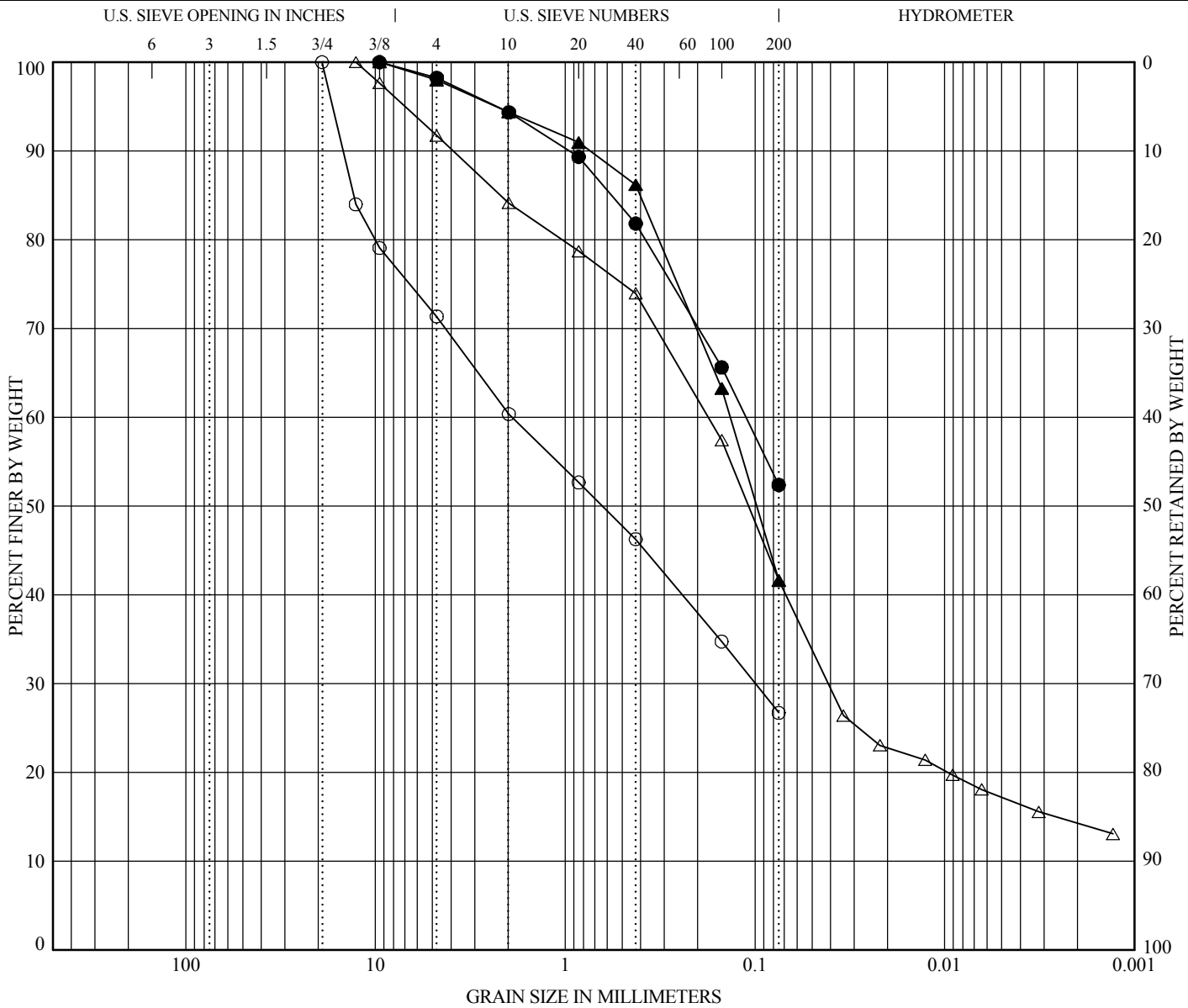
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.139



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-179	60.5	CLAYEY SAND with GRAVEL (SC)	44	24	20	--	--
●	G-179	70.5	SANDY LEAN CLAY (CL)	--	--	--	--	--
△	G-179	77.5	CLAYEY SAND (SC)	30	17	13	--	--
▲	G-179	80.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-179	60.5	19.10	1.905	0.100	--	28.6	44.7	26.7
●	G-179	70.5	9.52	0.112	--	--	1.8	45.8	52.4
△	G-179	77.5	12.70	0.177	0.041	--	8.3	50.1	41.6
▲	G-179	80.5	9.52	0.135	--	--	2.0	56.4	41.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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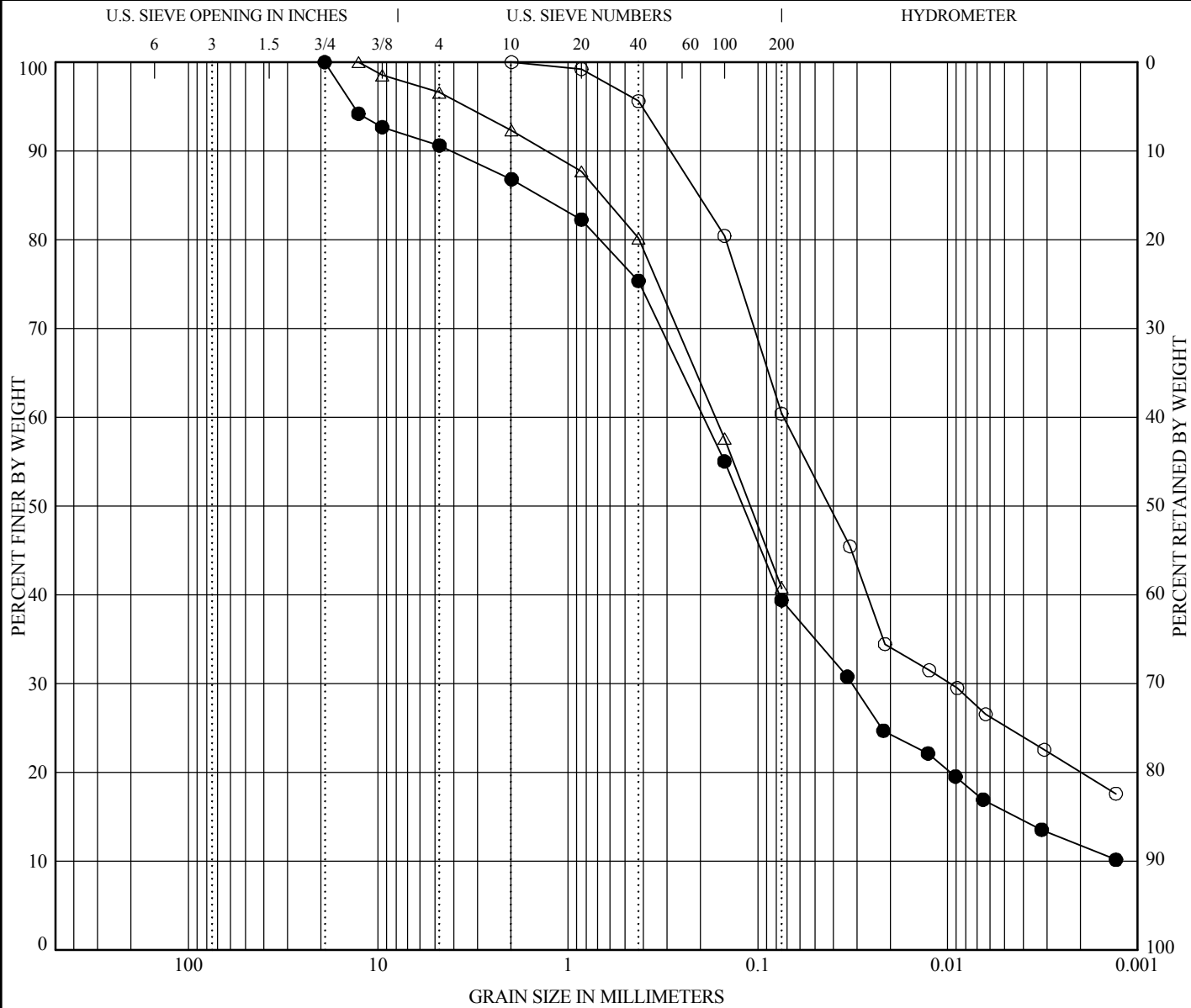
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Figure: F-6.140

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION			LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-179	95.5	SANDY LEAN CLAY (CL)			29	21	8	--	--
●	G-179	100.5	CLAYEY SAND (SC)			--	--	--	--	--
△	G-179	110.5	SILTY SAND (SM)			--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-179	95.5	1.98	0.073	0.010	--	0.0	39.6	60.4
●	G-179	100.5	19.10	0.194	0.032	--	9.4	51.2	39.4
△	G-179	110.5	12.70	0.168	--	--	3.4	55.8	40.8

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

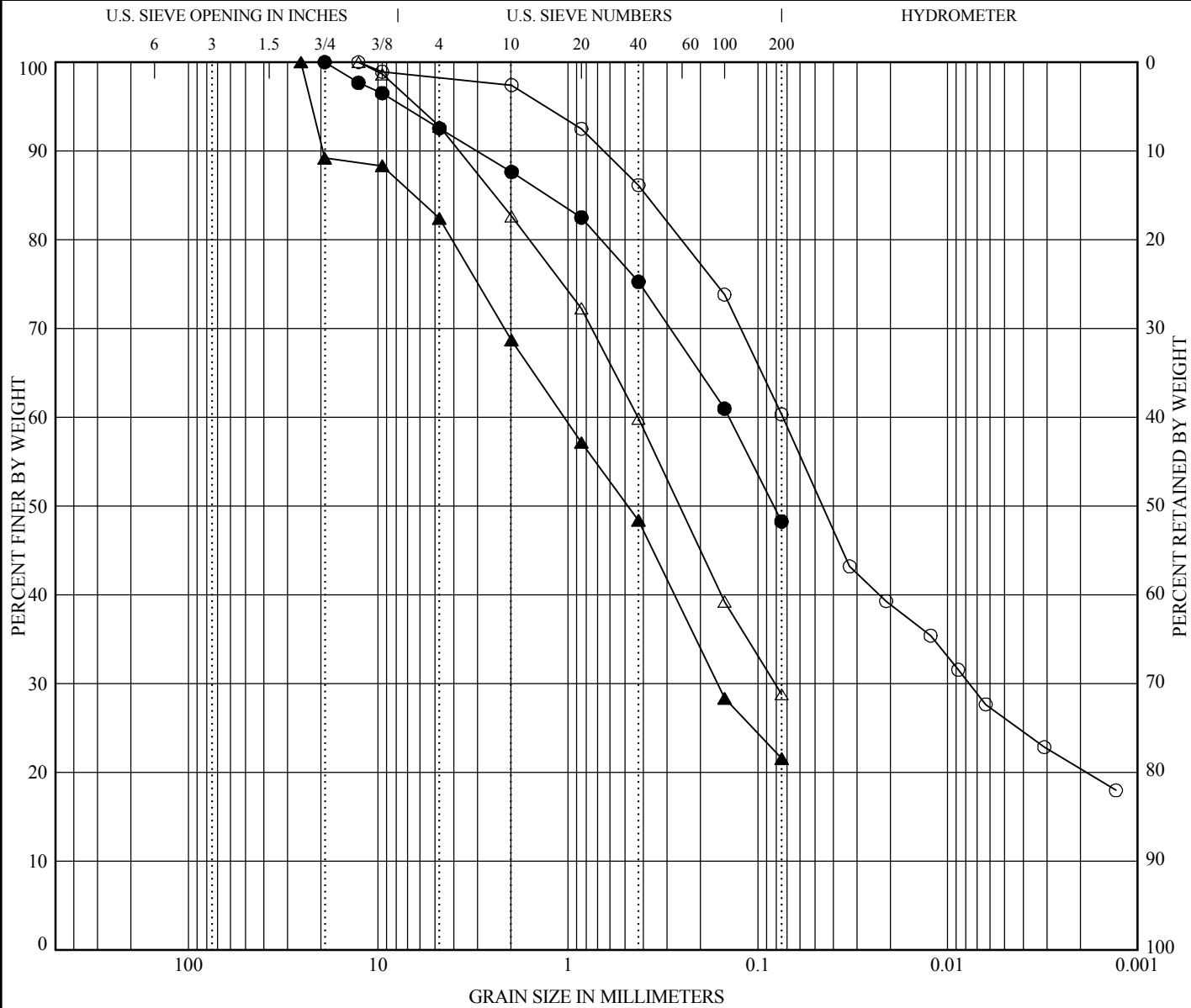
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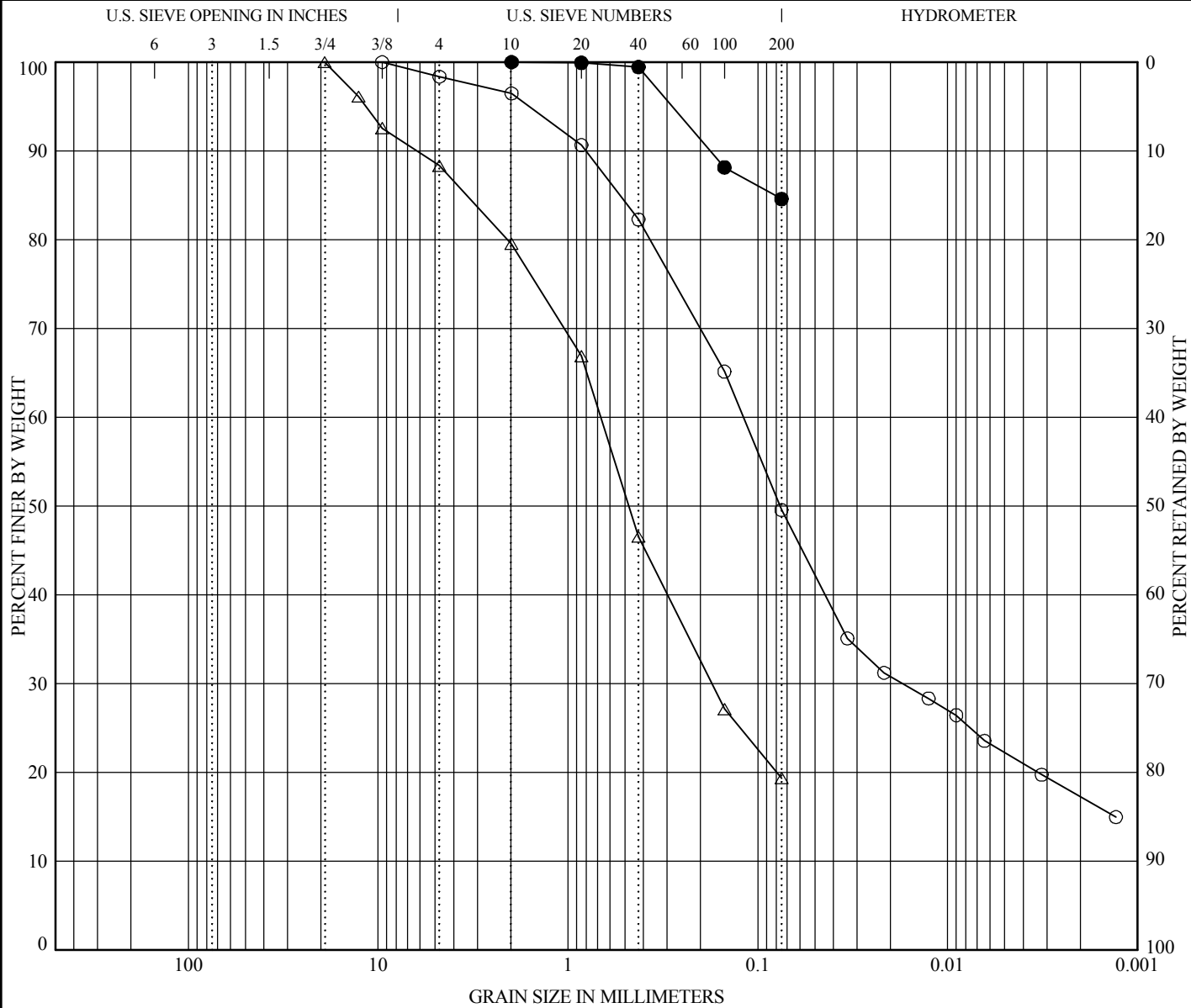


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 Figure: F-6.141

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-180	95.5	SANDY SILT (ML)	--	--	--	--	--
●	G-180	103.0	SILT with SAND (ML)	--	--	--	--	--
△	G-180	110.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-180	95.5	9.52	0.119	0.017	--	1.6	48.8	49.5
●	G-180	103.0	1.98	--	--	--	0.0	15.4	84.6
△	G-180	110.5	19.10	0.672	0.175	--	11.7	69.0	19.4

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

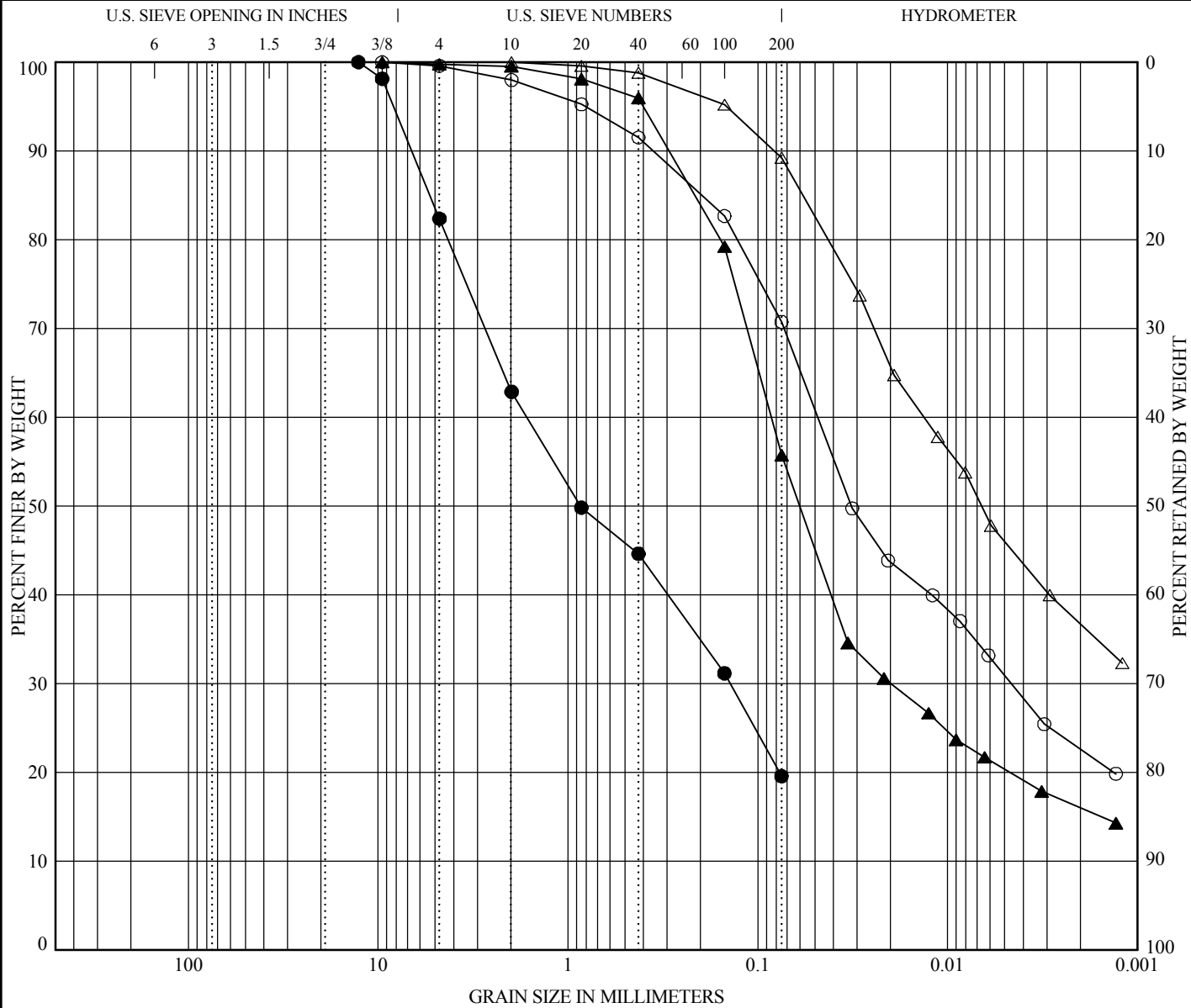
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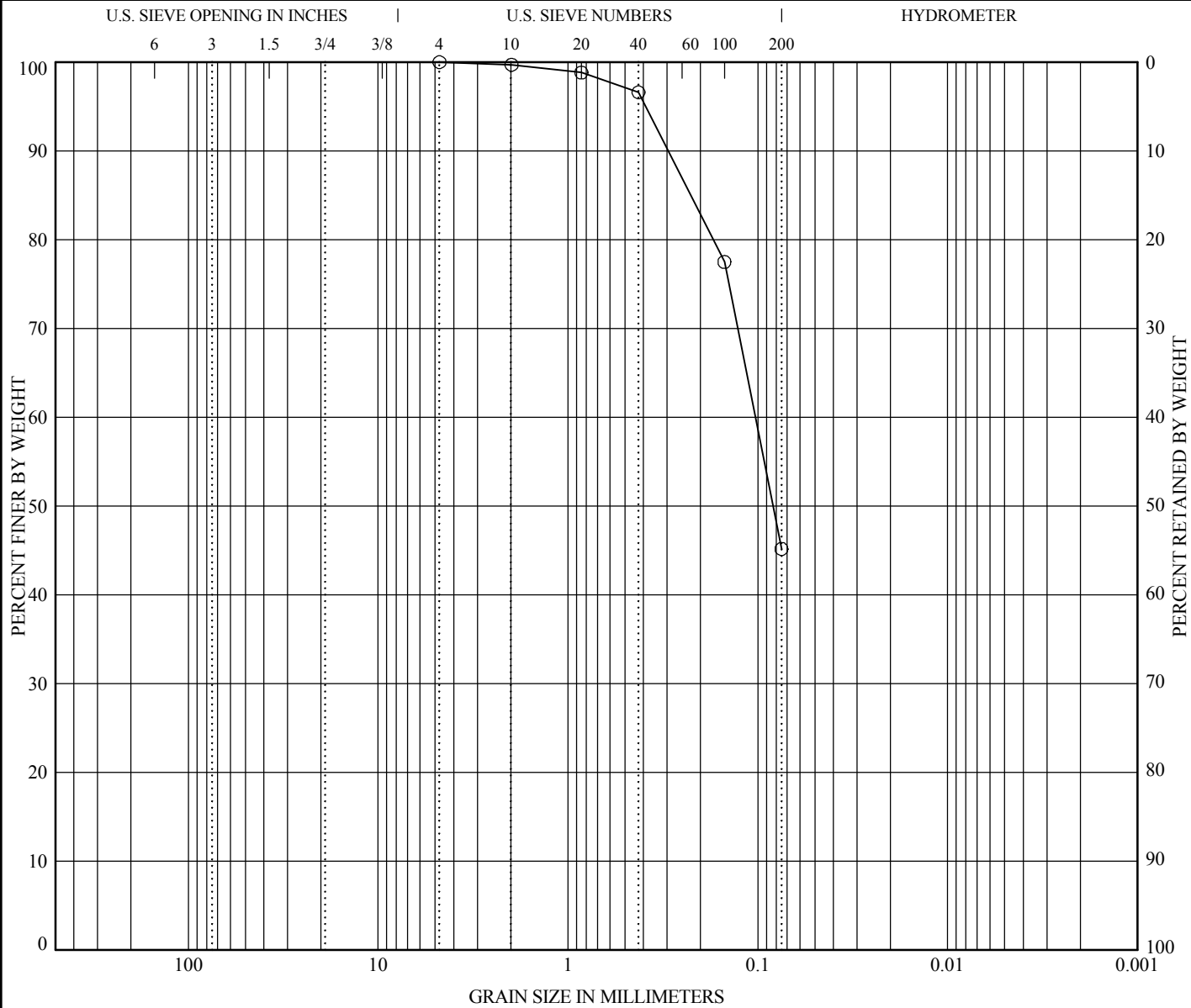


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 Figure: F-6.143

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-181	115.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-181	115.5	4.75	0.103	--	--	0.0	54.8	45.2

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

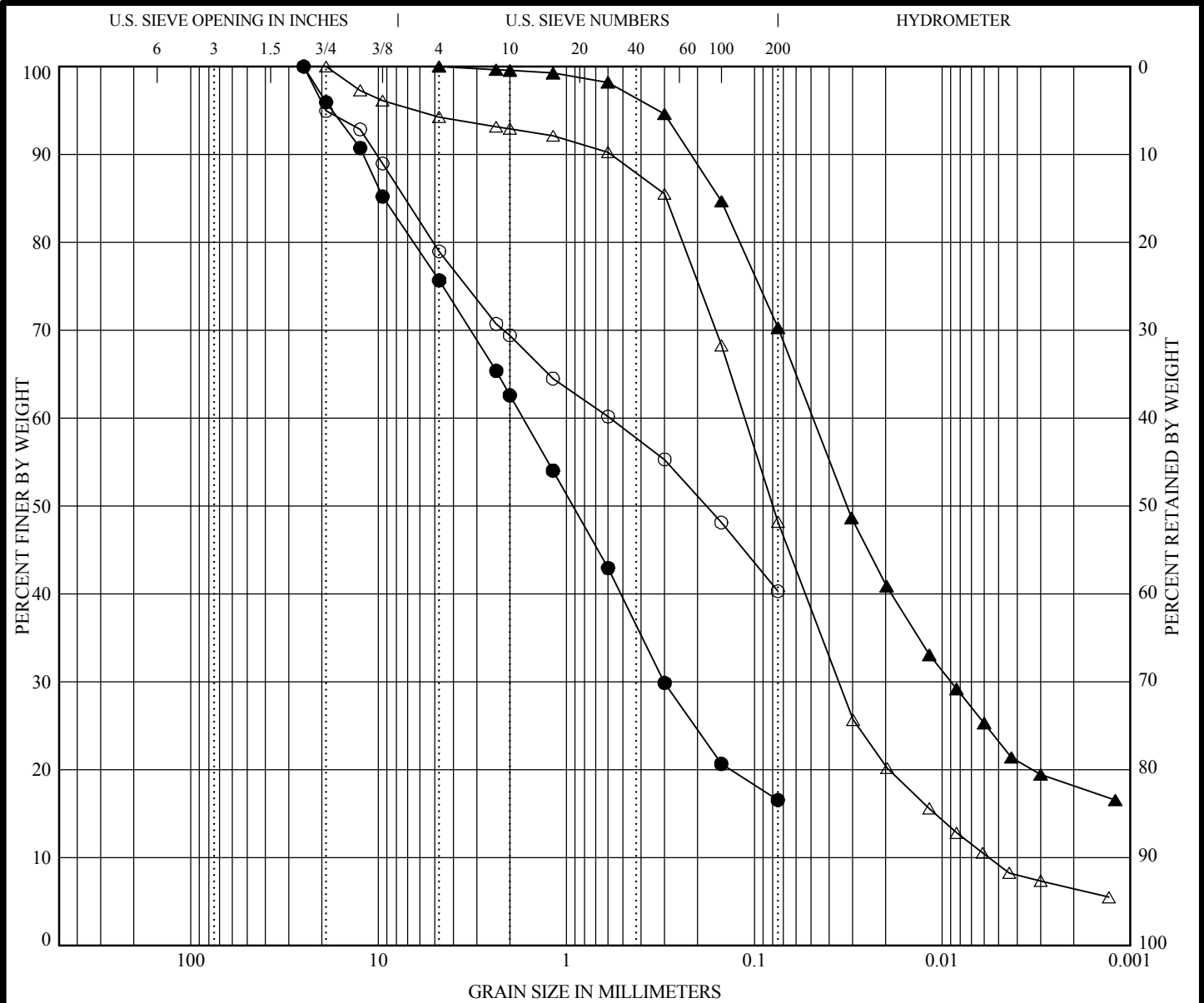
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 Figure: F-6.145

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-186	5.5	CLAYEY SAND with GRAVEL (SC)	31	17	14	--	--
●	G-186	10.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
△	G-186	15.5	SILTY, CLAYEY SAND (SC-SM)	24	17	7	2.0	20.0
▲	G-186	25.5	LEAN CLAY with SAND (CL)	34	17	17	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-186	5.5	25.00	0.586	--	--	21.0	38.7	40.3
●	G-186	10.5	25.00	1.705	0.302	--	24.3	59.1	16.6
△	G-186	15.5	19.00	0.113	0.036	0.006	5.8	46.1	48.2
▲	G-186	25.5	4.75	0.049	0.009	--	0.0	29.7	70.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

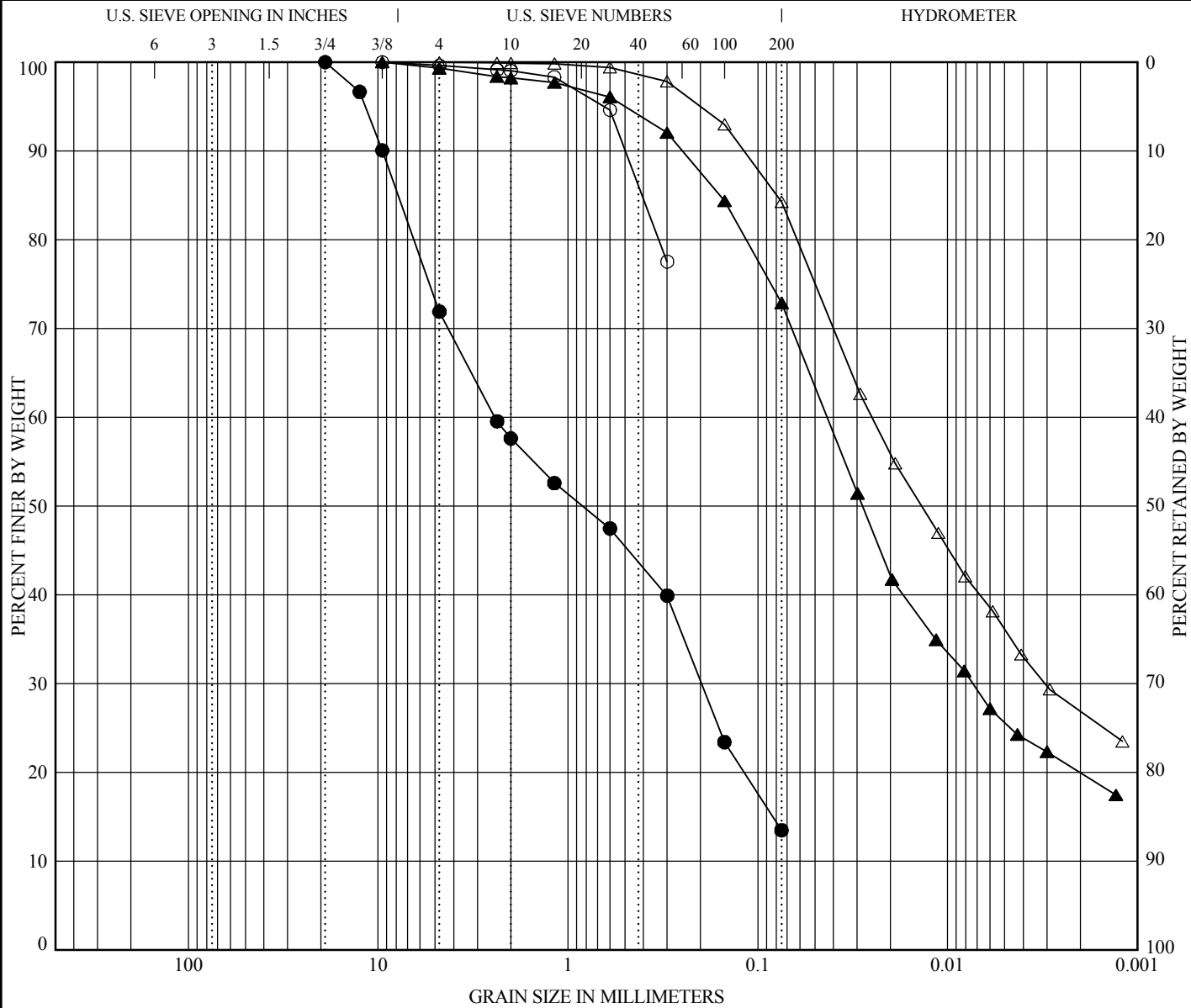
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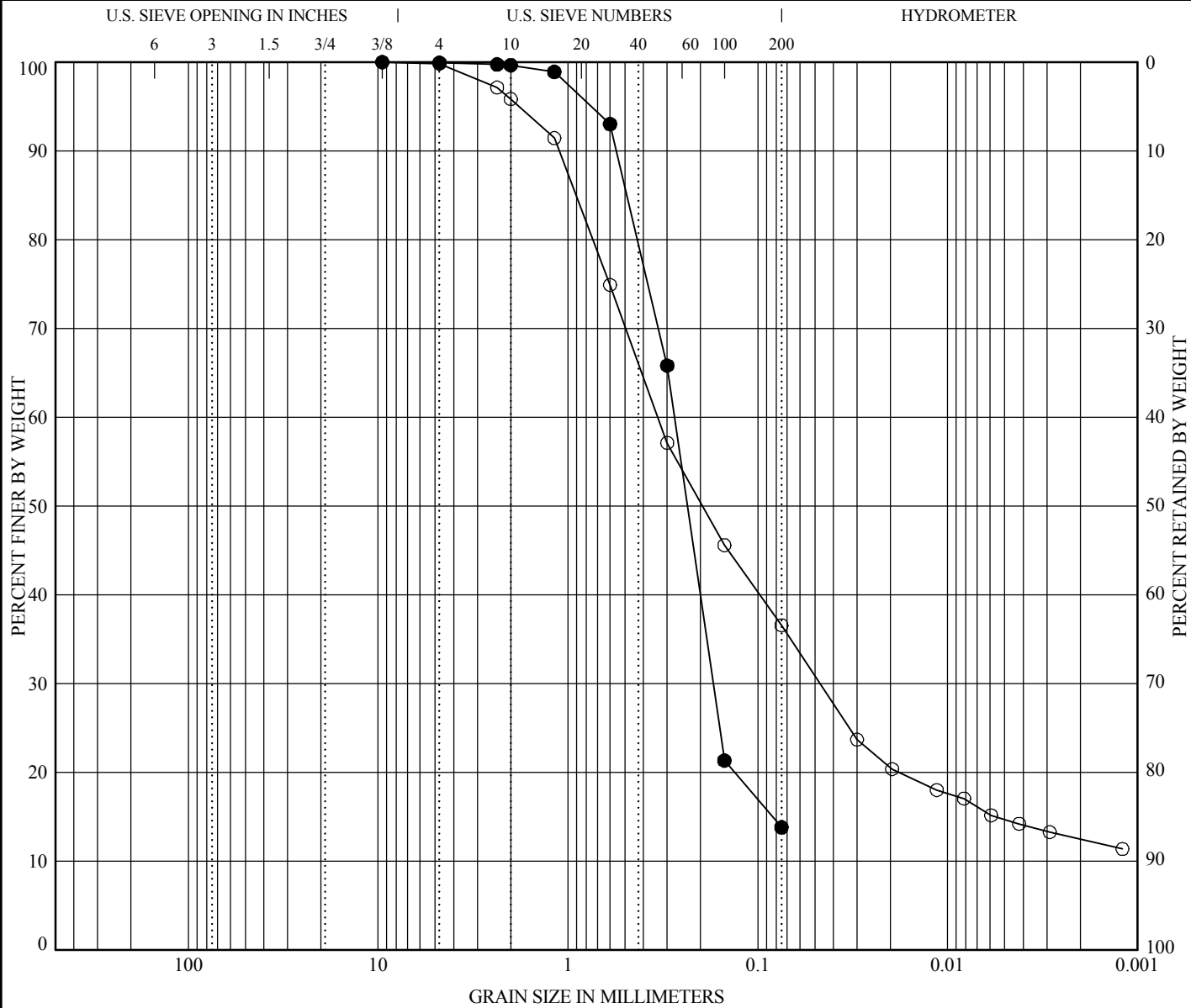


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 Figure: F-6.146

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-186	90.5	CLAYEY SAND (SC)	30	16	14	--	--
●	G-186	110.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-186	90.5	9.50	0.336	0.047	--	0.2	63.3	36.6
●	G-186	110.5	9.50	0.274	0.172	--	0.1	86.1	13.8

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

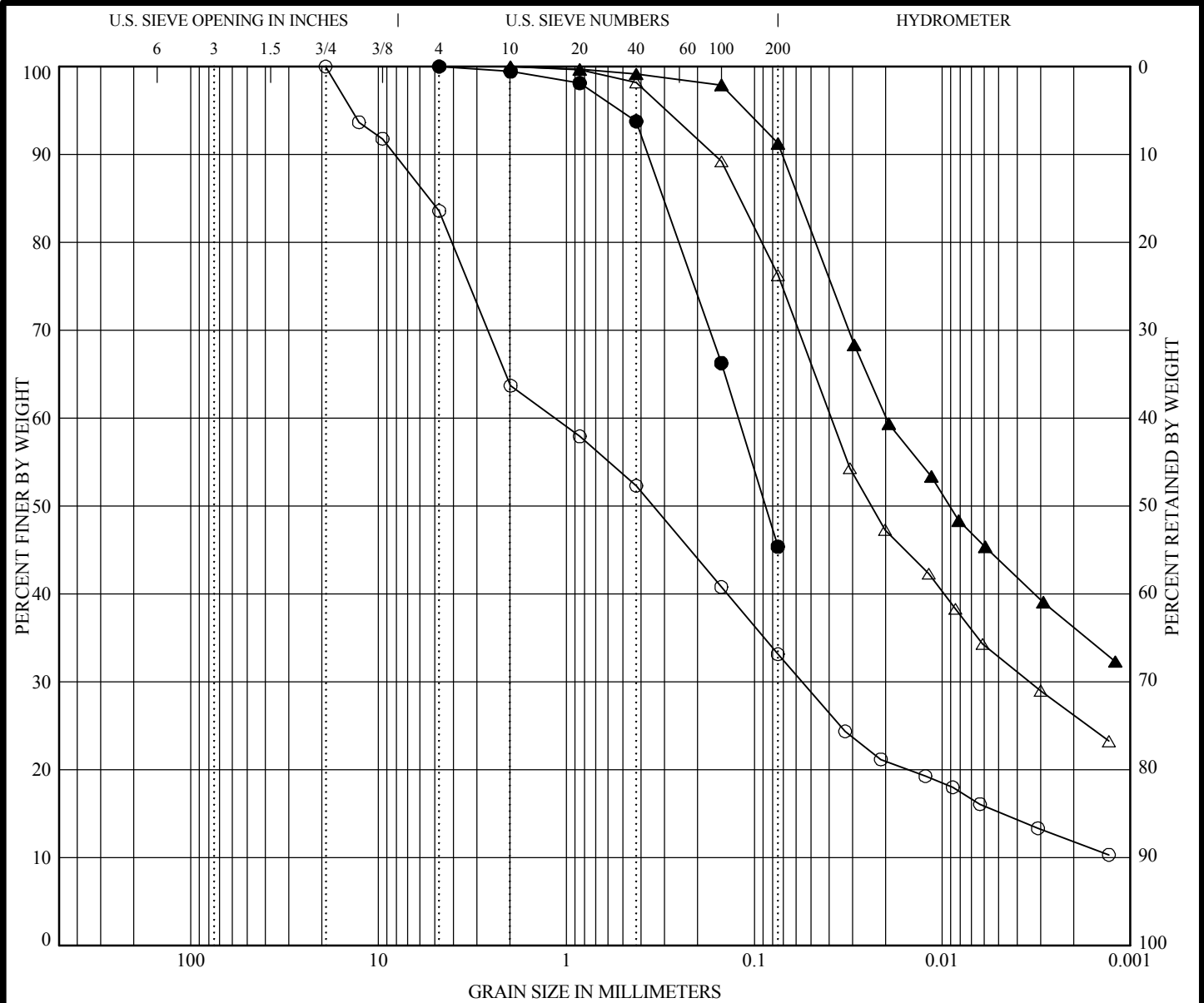
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 Figure: F-6.148

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-187	60.5	CLAYEY SAND with GRAVEL (SC)	25	14	11	--	--
●	G-187	65.5	CLAYEY SAND (SC)	26	17	9	--	--
△	G-187	75.5	LEAN CLAY with SAND (CL)	35	16	19	--	--
▲	G-187	85.5	FAT CLAY (CH)	62	18	44	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-187	60.5	19.10	1.152	0.056	--	16.4	50.4	33.1
●	G-187	65.5	4.75	0.122	--	--	0.0	54.6	45.4
△	G-187	75.5	1.98	0.039	0.003	--	0.0	23.7	76.3
▲	G-187	85.5	1.98	0.020	--	--	0.0	8.7	91.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

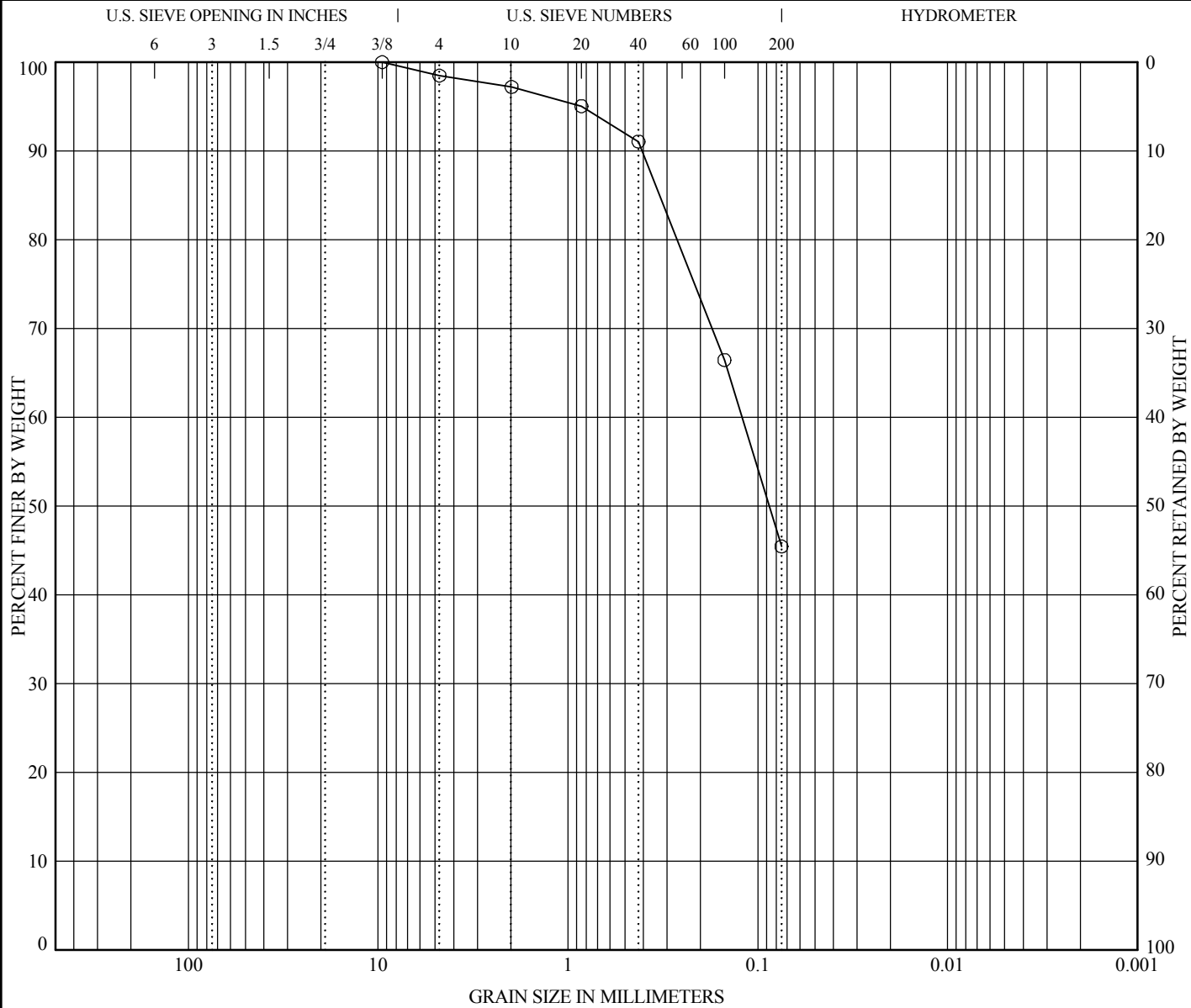
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 Figure: F-6.150

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-187	95.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-187	95.5	9.52	0.121	--	--	1.5	53.0	45.4

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

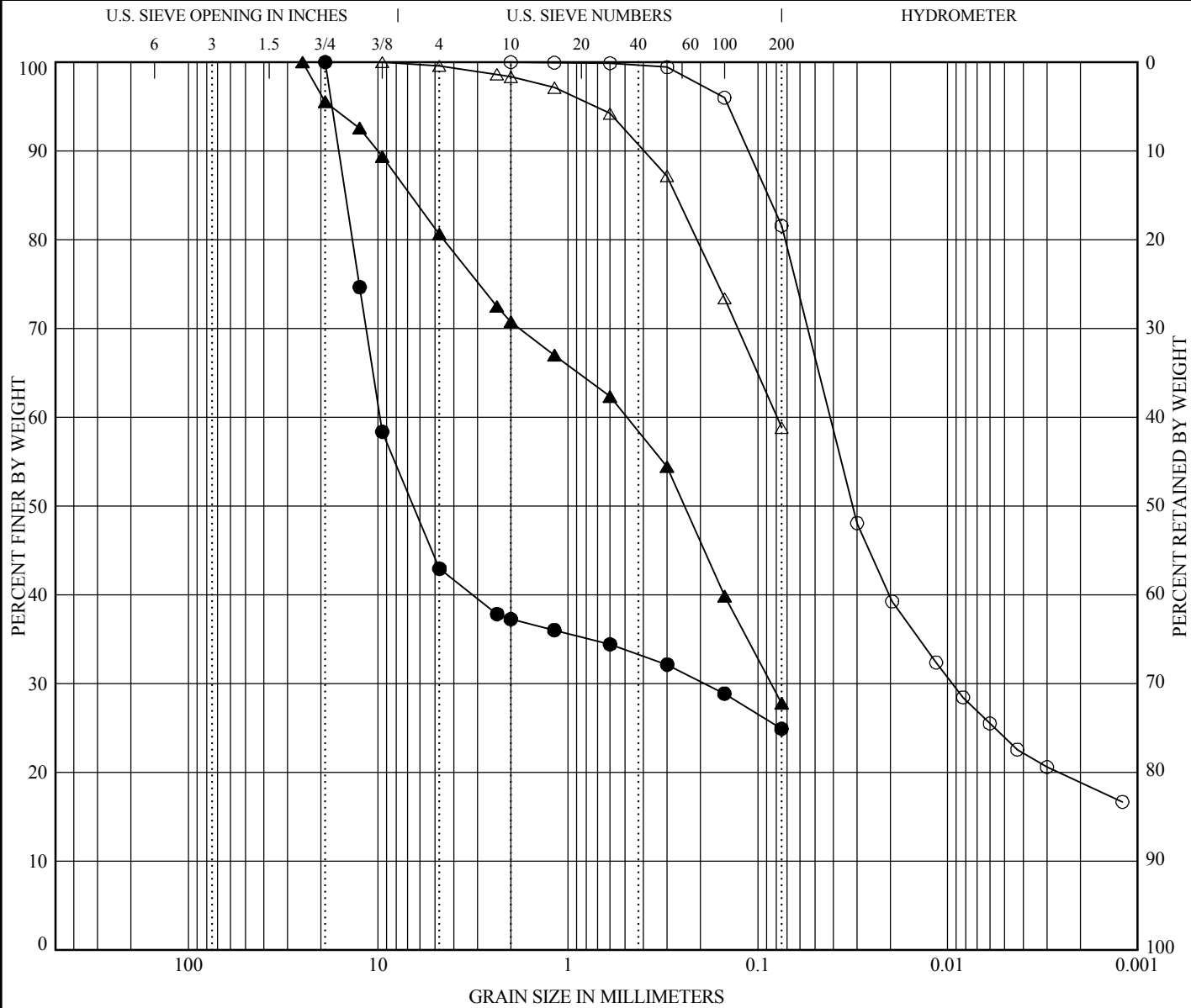
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 Figure: F-6.151

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-188	20.5	SILT with SAND (ML)	--	--	--	--	--
●	G-188	40.5	CLAYEY GRAVEL with SAND (GC)	--	--	--	--	--
△	G-188	45.5	SANDY LEAN CLAY (CL)	33	15	18	--	--
▲	G-188	55.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-188	20.5	2.00	0.042	0.009	--	0.0	18.4	81.6
●	G-188	40.5	19.00	9.764	0.191	--	57.1	18.0	24.9
△	G-188	45.5	9.50	0.079	--	--	0.4	40.7	58.8
▲	G-188	55.5	25.00	0.488	0.085	--	19.4	52.9	27.8

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

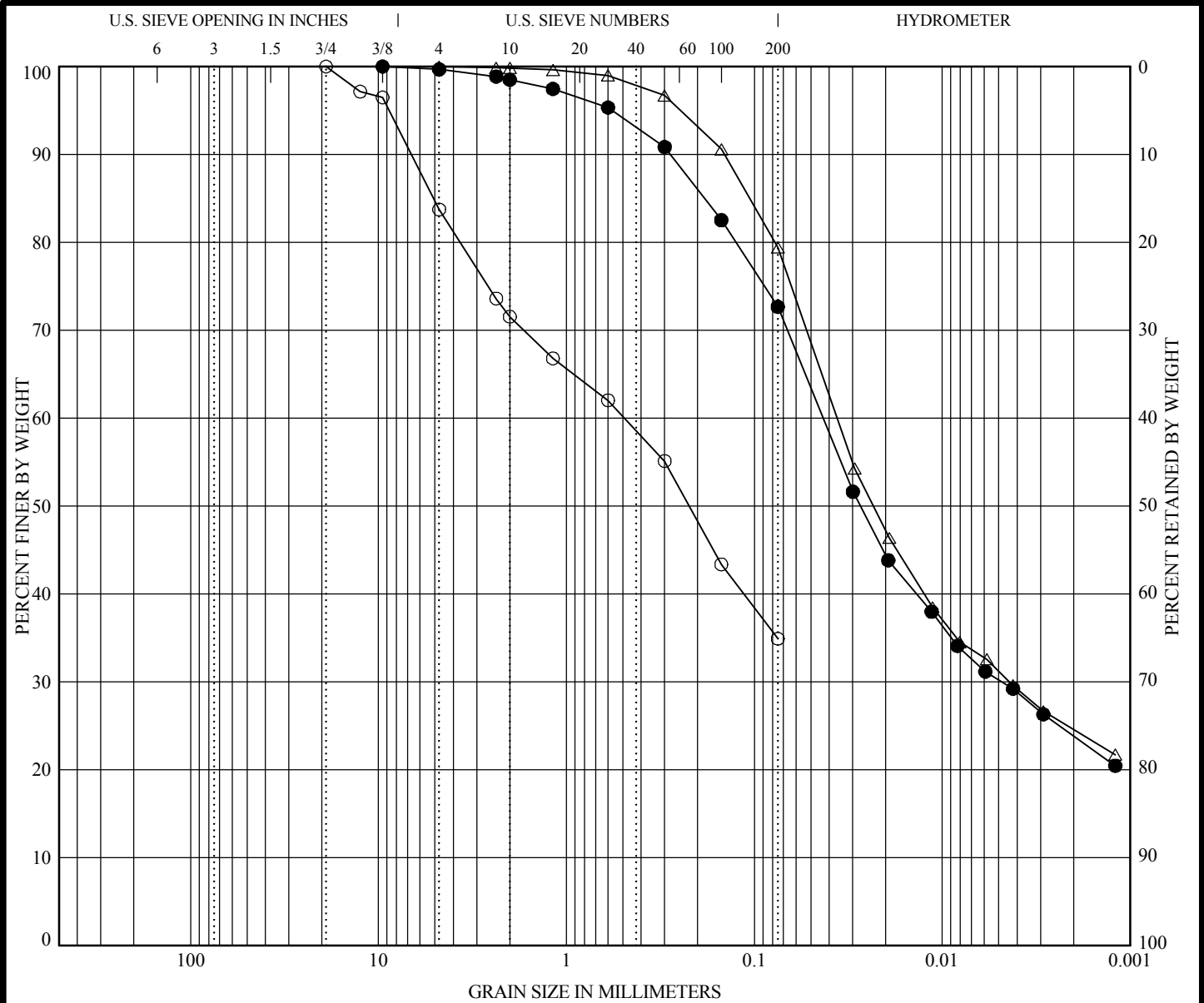
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 Figure: F-6.152

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-188	65.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
●	G-188	75.5	LEAN CLAY with SAND (CL)	37	16	21	--	--
△	G-188	80.5	SILT with SAND (ML)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-188	65.5	19.00	0.489	--	--	16.3	48.8	34.9
●	G-188	75.5	9.50	0.043	0.005	--	0.3	27.0	72.7
△	G-188	80.5	4.75	0.036	0.004	--	0.0	20.6	79.4

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

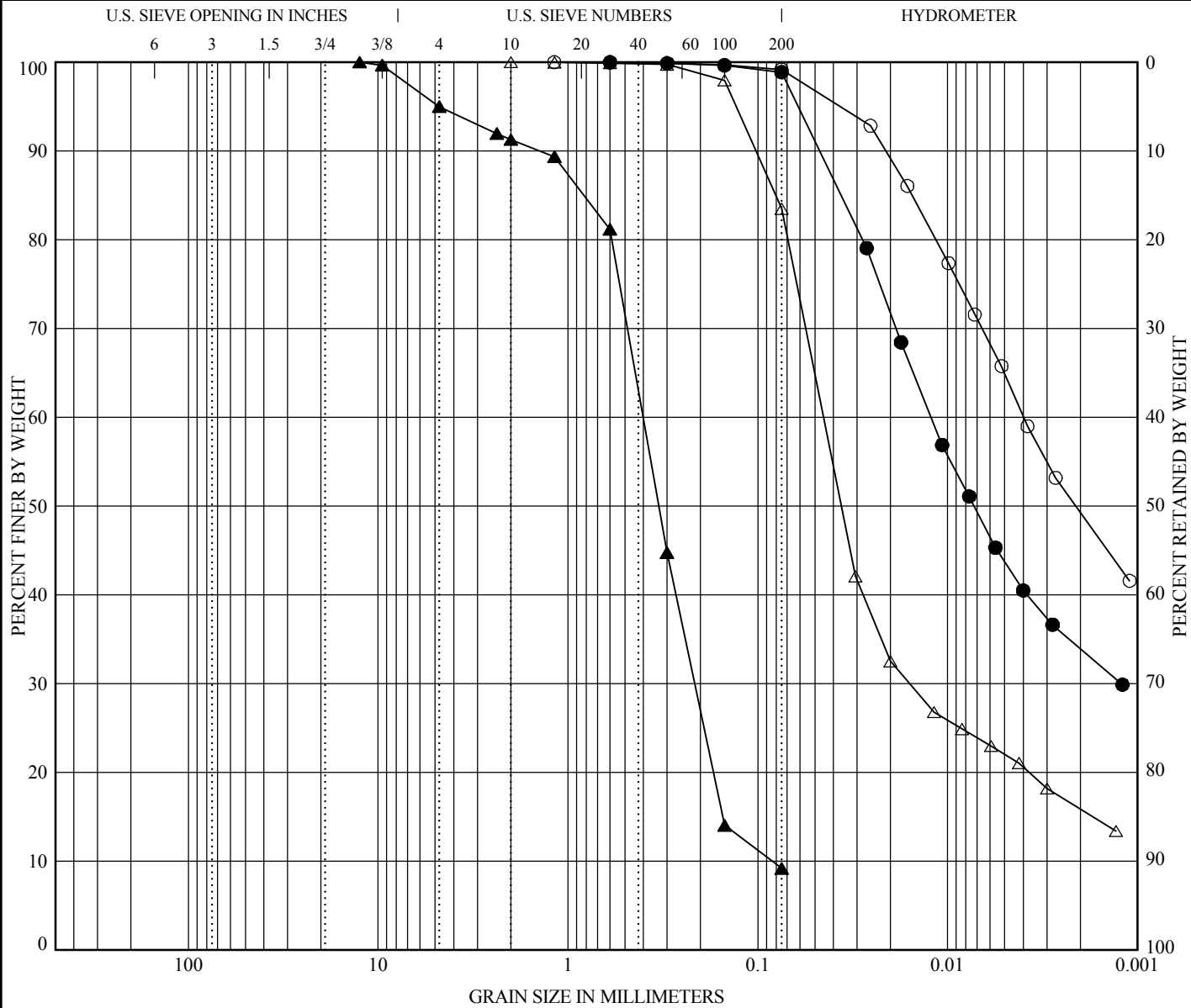
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 Figure: F-6.153

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-189	85.5	FAT CLAY (CH)	73	20	53	--	--
●	G-189	95.5	FAT CLAY (CH)	56	18	38	--	--
△	G-189	105.5	SILT with SAND (ML)	--	--	--	--	--
▲	G-189	115.5	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.4	4.8

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-189	85.5	1.18	0.004	--	--	0.0	0.8	99.2
●	G-189	95.5	0.60	0.012	0.001	--	0.0	1.1	98.9
△	G-189	105.5	2.00	0.045	0.016	--	0.0	16.5	83.5
▲	G-189	115.5	12.50	0.401	0.215	0.084	5.0	85.8	9.2

Laboratory Test Method: ASTM D 422

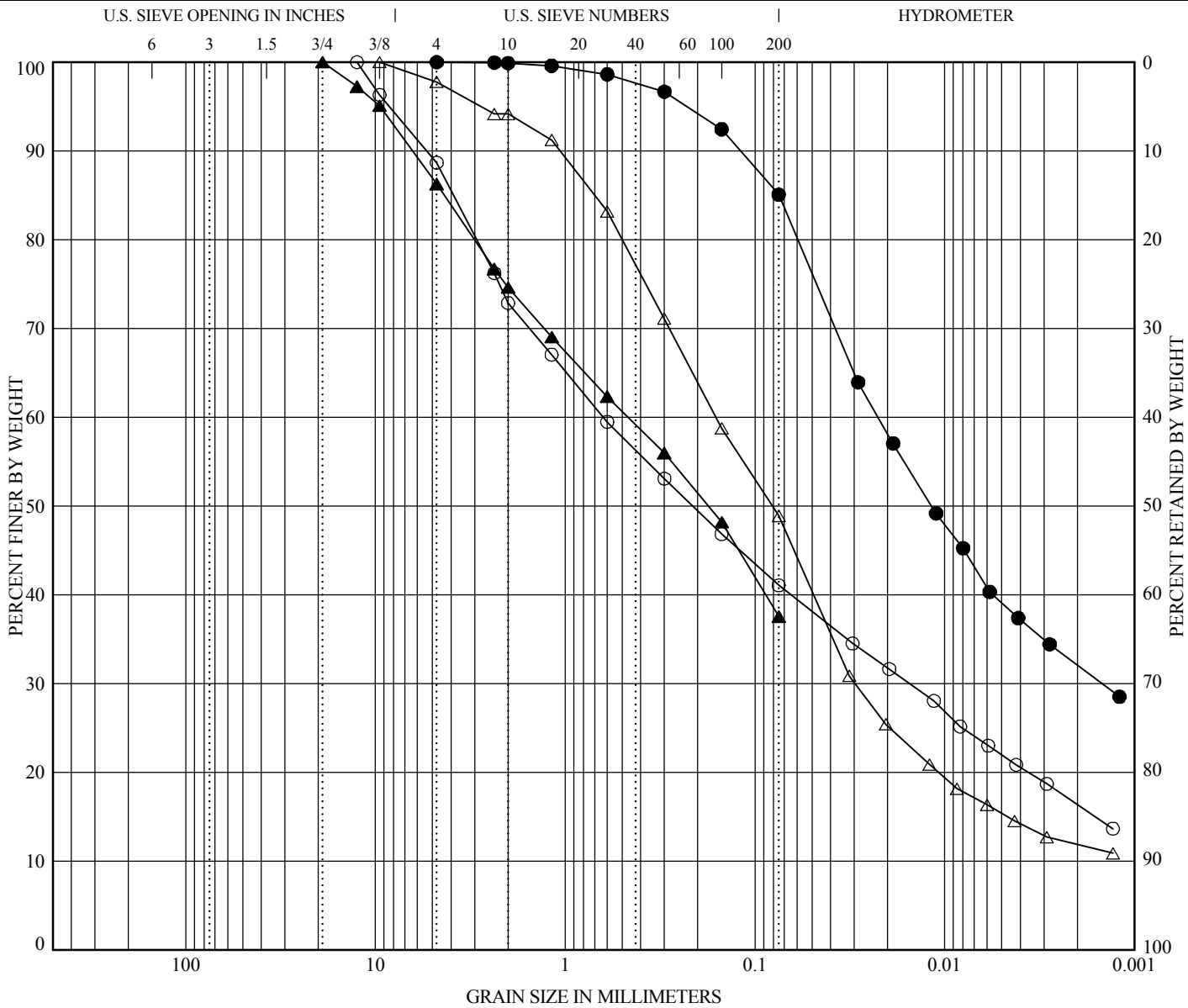
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.155



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-190	10.5	CLAYEY SAND (SC)	42	18	24	--	--
●	G-190	30.5	LEAN CLAY (CL)	41	14	27	--	--
△	G-190	35.5	CLAYEY SAND (SC)	31	17	14	--	--
▲	G-190	40.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-190	10.5	12.50	0.629	0.015	--	11.3	47.6	41.1
●	G-190	30.5	4.75	0.022	0.001	--	0.0	14.9	85.1
△	G-190	35.5	9.50	0.161	0.030	--	2.2	48.9	48.9
▲	G-190	40.5	19.00	0.465	--	--	13.7	48.7	37.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

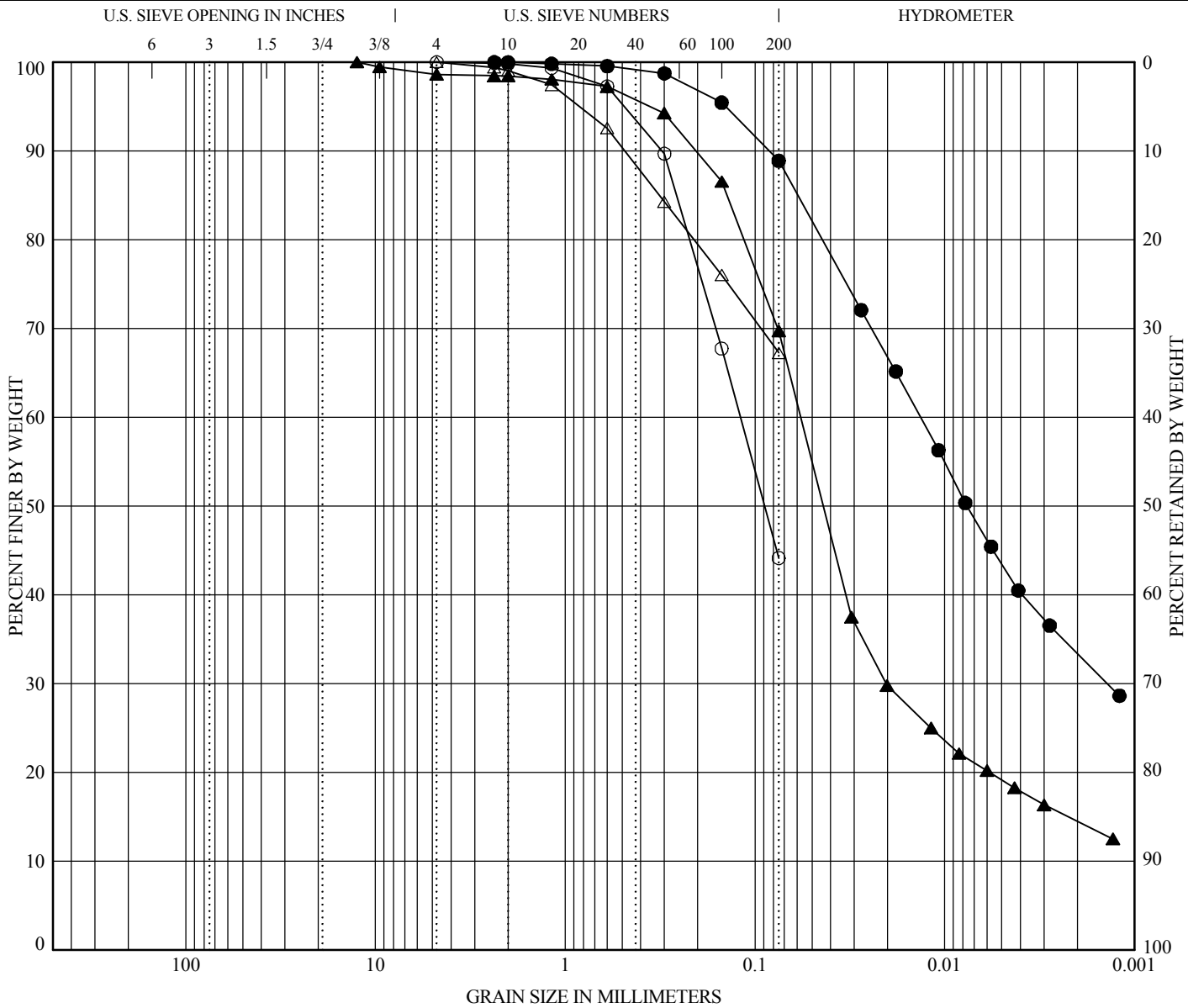
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Figure: F-6.156

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-190	47.5	SILTY SAND (SM)	--	--	--	--	--
●	G-190	55.5	FAT CLAY (CH)	52	18	34	--	--
△	G-190	65.5	SANDY LEAN CLAY (CL)	29	19	10	--	--
▲	G-190	75.5	SANDY LEAN CLAY (CL)	30	19	11	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-190	47.5	4.75	0.120	--	--	0.0	55.9	44.1
●	G-190	55.5	2.36	0.013	0.001	--	0.0	11.1	88.9
△	G-190	65.5	4.75	--	--	--	0.0	32.8	67.3
▲	G-190	75.5	12.50	0.057	0.020	--	1.4	28.9	69.7

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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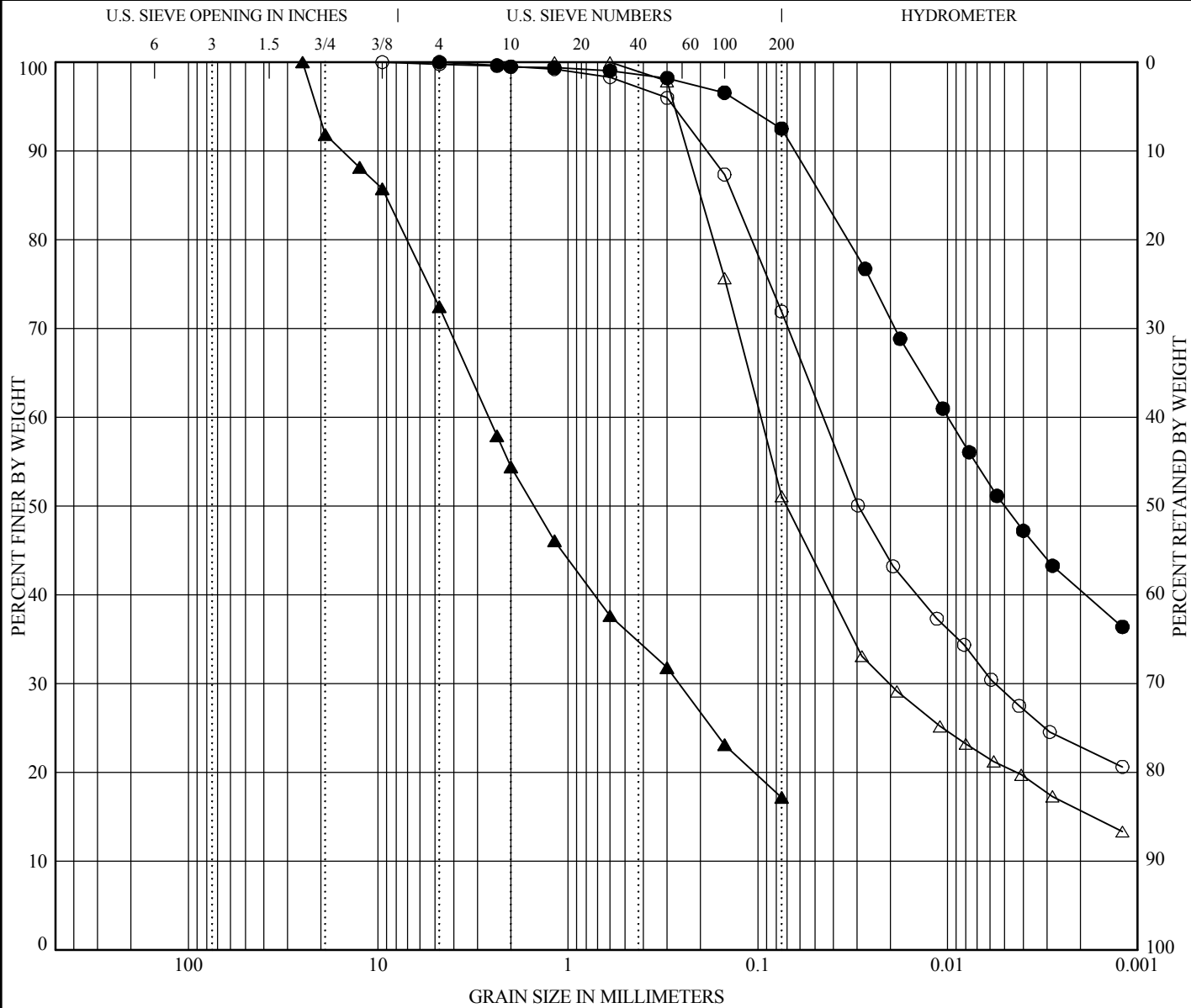
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Figure: F-6.157

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-190	85.5	SILT with SAND (ML)	--	--	--	--	--
●	G-190	95.5	FAT CLAY (CH)	60	19	41	--	--
△	G-190	105.5	SANDY SILT (ML)	--	--	--	--	--
▲	G-190	120.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-190	85.5	9.50	0.045	0.006	--	0.2	27.9	71.9
●	G-190	95.5	4.75	0.010	--	--	0.0	7.5	92.5
△	G-190	105.5	1.18	0.096	0.020	--	0.0	48.9	51.1
▲	G-190	120.5	25.00	2.608	0.260	--	27.6	55.3	17.2

Laboratory Test Method: ASTM D 422

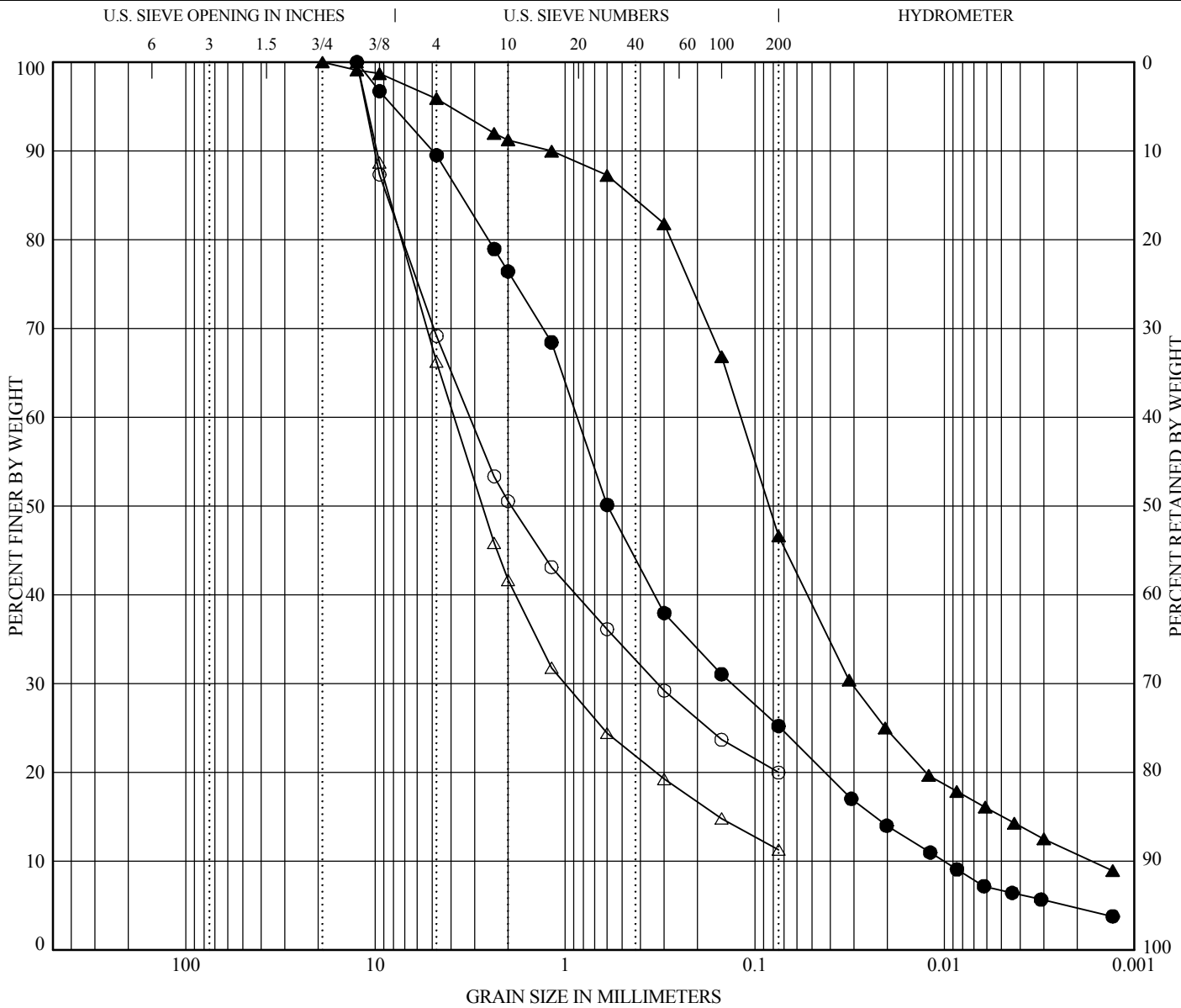
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Project No.: 4953-10-1561
 Figure: F-6.158



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-191	25.5	SILTY, CLAYEY SAND with GRAVEL (SC-SM)	26	21	5	--	--
●	G-191	35.5	SILTY SAND (SM)	--	--	--	2.0	85.7
△	G-191	50.5	POORLY GRADED SAND with SILT and GRAVEL (SP-SM)	--	--	--	4.5	66.1
▲	G-191	55.5	CLAYEY SAND (SC)	28	18	10	4.8	71.1

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-191	25.5	12.50	3.167	0.325	--	30.8	49.2	20.0
●	G-191	35.5	12.50	0.864	0.132	0.010	10.5	64.3	25.2
△	G-191	50.5	12.50	3.831	1.002	--	33.7	55.0	11.3
▲	G-191	55.5	19.00	0.119	0.031	0.002	4.1	49.3	46.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

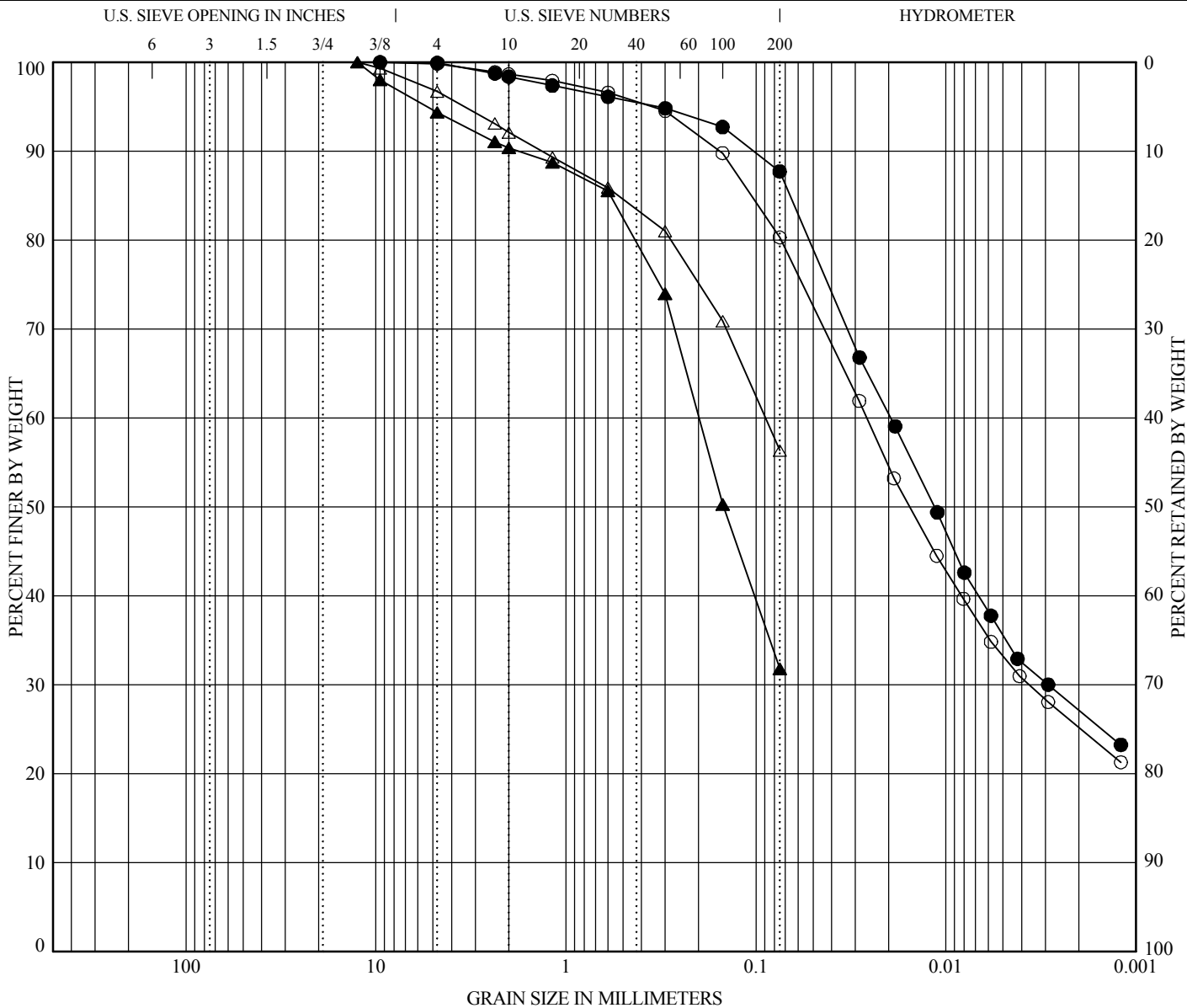
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Figure: F-6.159

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-191	65.5	LEAN CLAY with SAND (CL)	48	24	24	--	--
●	G-191	75.5	LEAN CLAY (CL)	43	17	26	--	--
△	G-191	85.5	SANDY SILT (ML)	--	--	--	--	--
▲	G-191	90.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-191	65.5	9.50	0.026	0.004	--	0.2	19.5	80.3
●	G-191	75.5	9.50	0.019	0.003	--	0.1	12.2	87.7
△	G-191	85.5	12.50	0.089	--	--	3.3	40.3	56.4
▲	G-191	90.5	12.50	0.199	--	--	5.6	62.6	31.8

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

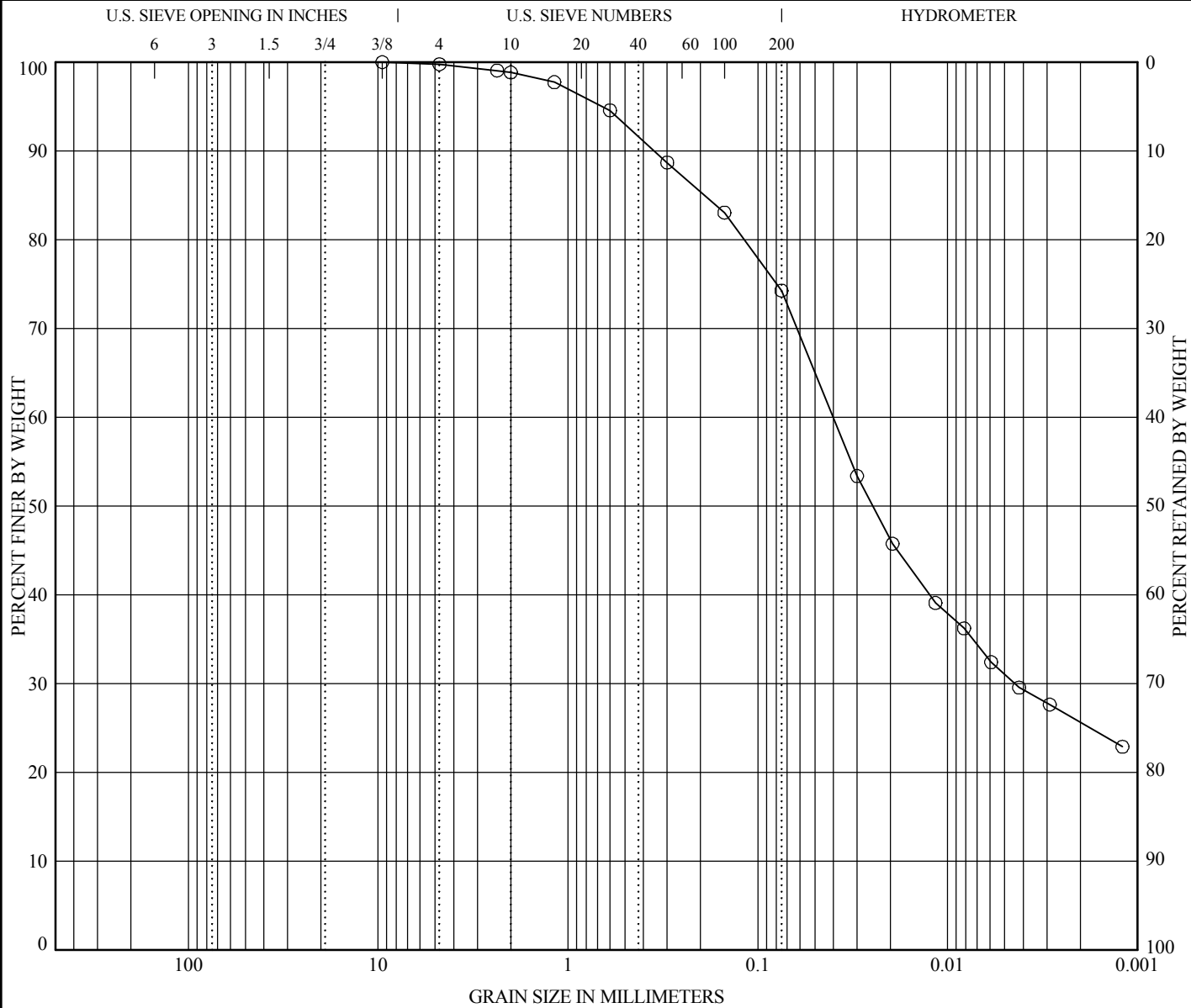
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Figure: F-6.160

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-191	100.5	LEAN CLAY with SAND (CL)	36	14	22	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-191	100.5	9.50	0.040	0.004	--	0.2	25.5	74.3

Laboratory Test Method: ASTM D 422

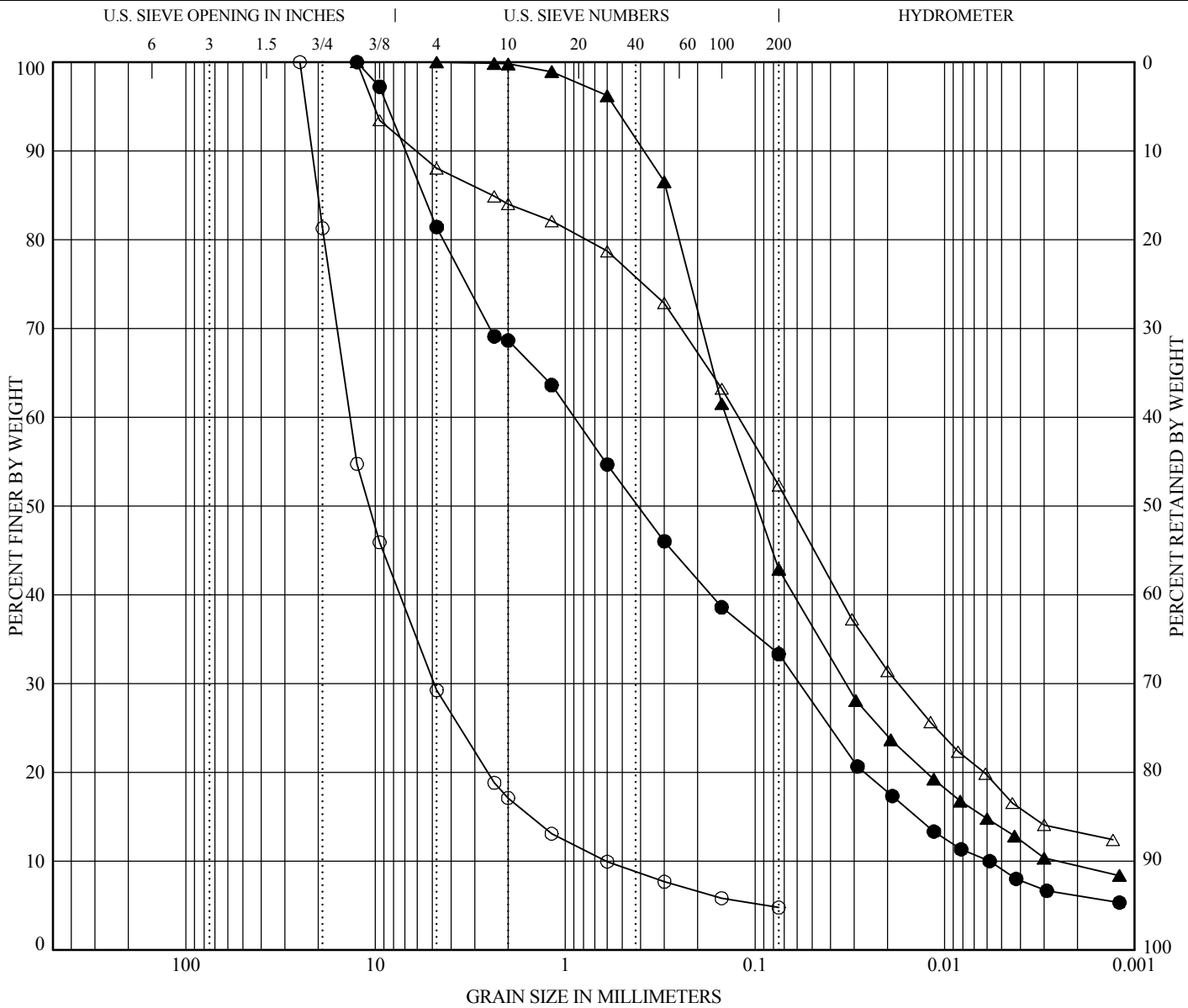
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.161



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-199	30.5	WELL-GRADED GRAVEL with SAND (GW)	--	--	--	2.9	22.3
●	G-199	40.5	SILTY, CLAYEY SAND with GRAVEL (SC-SM)	21	16	5	0.7	154.7
△	G-199	67.5	SANDY LEAN CLAY (CL)	30	17	13	--	--
▲	G-199	75.5	SILTY SAND (SM)	NP	NP	NP	3.1	55.6

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-199	30.5	25.00	13.579	4.901	0.608	70.8	24.5	4.8
●	G-199	40.5	12.50	0.897	0.058	0.006	18.6	48.1	33.3
△	G-199	67.5	12.50	0.122	0.018	--	11.9	35.7	52.3
▲	G-199	75.5	4.75	0.142	0.033	0.003	0.0	57.1	42.9

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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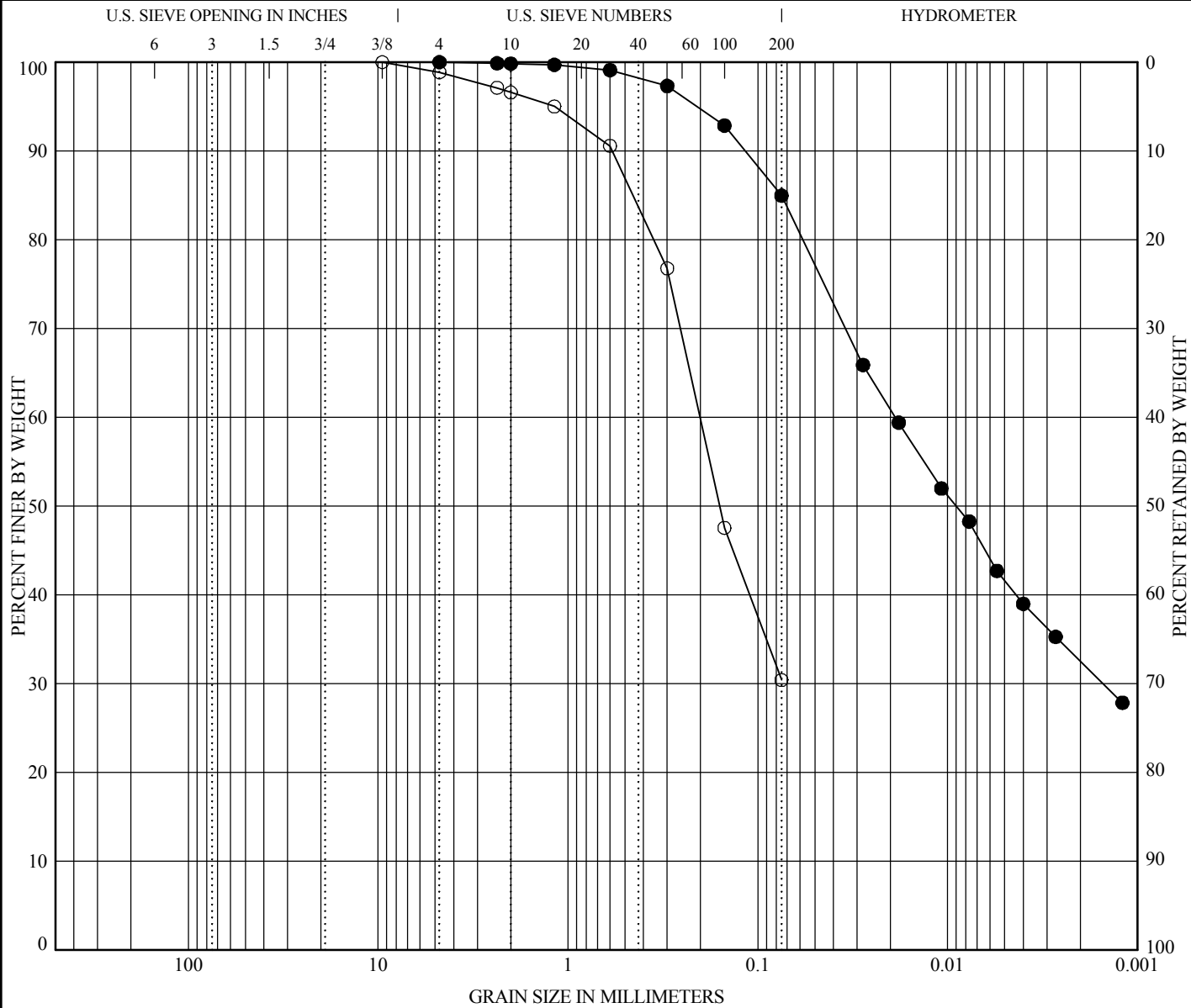
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Figure: F-6.162

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-199	85.5	SILTY SAND (SM)	--	--	--	--	--
●	G-199	95.5	FAT CLAY with SAND (CH)	51	16	35	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-199	85.5	9.50	0.202	--	--	1.2	68.4	30.4
●	G-199	95.5	4.75	0.019	0.002	--	0.0	15.0	85.0

Laboratory Test Method: ASTM D 422

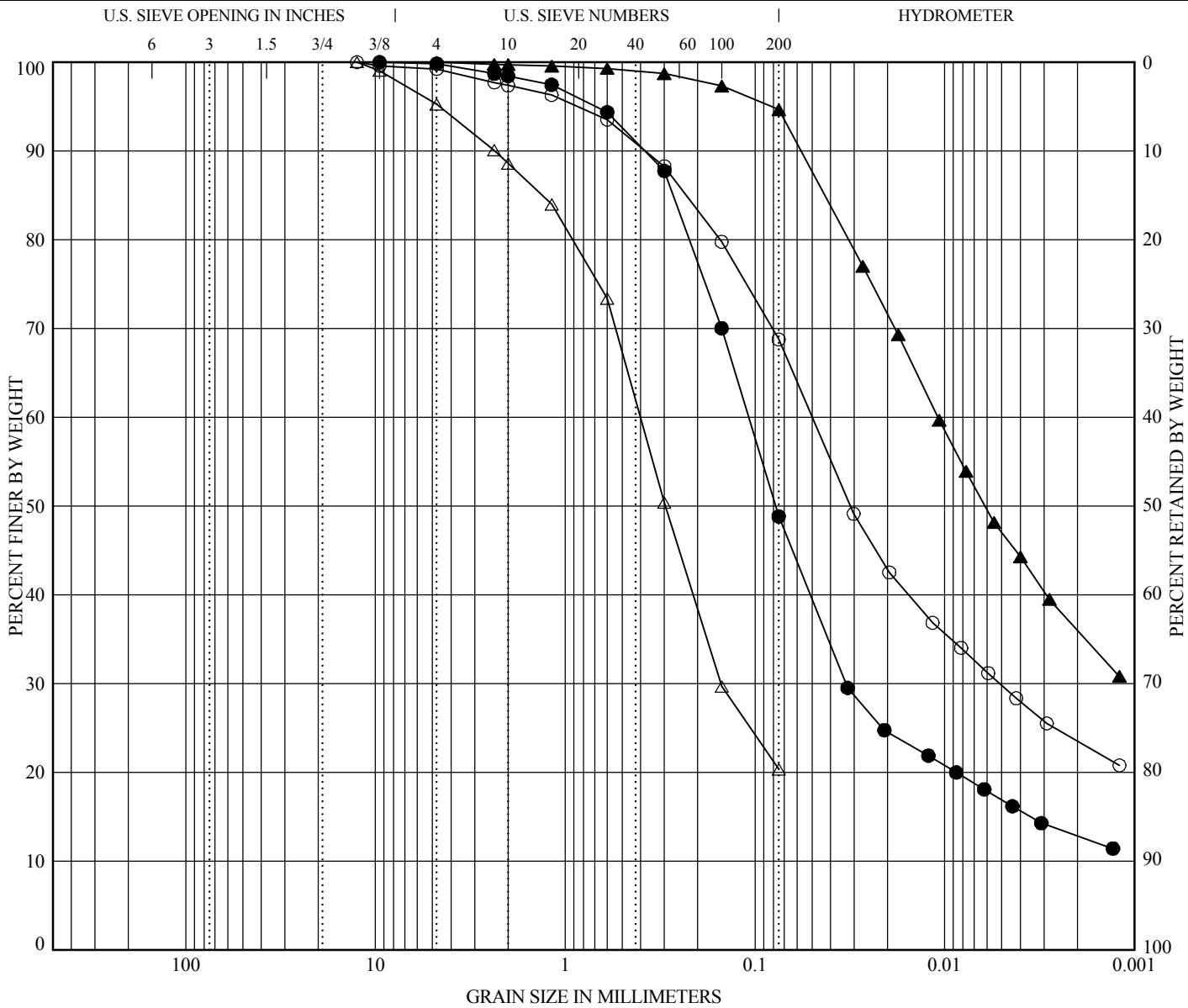
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Project No.: 4953-10-1561
 Figure: F-6.163



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-200Alt	10.5	SANDY LEAN CLAY (CL)	41	13	28	--	--
●	G-200Alt	25.5	SILTY SAND (SM)	NP	NP	NP	--	--
△	G-200Alt	45.5	SILTY SAND (SM)	--	--	--	--	--
▲	G-200Alt	50.5	FAT CLAY (CH)	54	17	37	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-200Alt	10.5	12.50	0.050	0.005	--	0.8	30.5	68.8
●	G-200Alt	25.5	9.50	0.108	0.033	--	0.2	51.0	48.8
△	G-200Alt	45.5	12.50	0.401	0.152	--	4.7	74.9	20.3
▲	G-200Alt	50.5	4.75	0.011	--	--	0.0	5.4	94.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

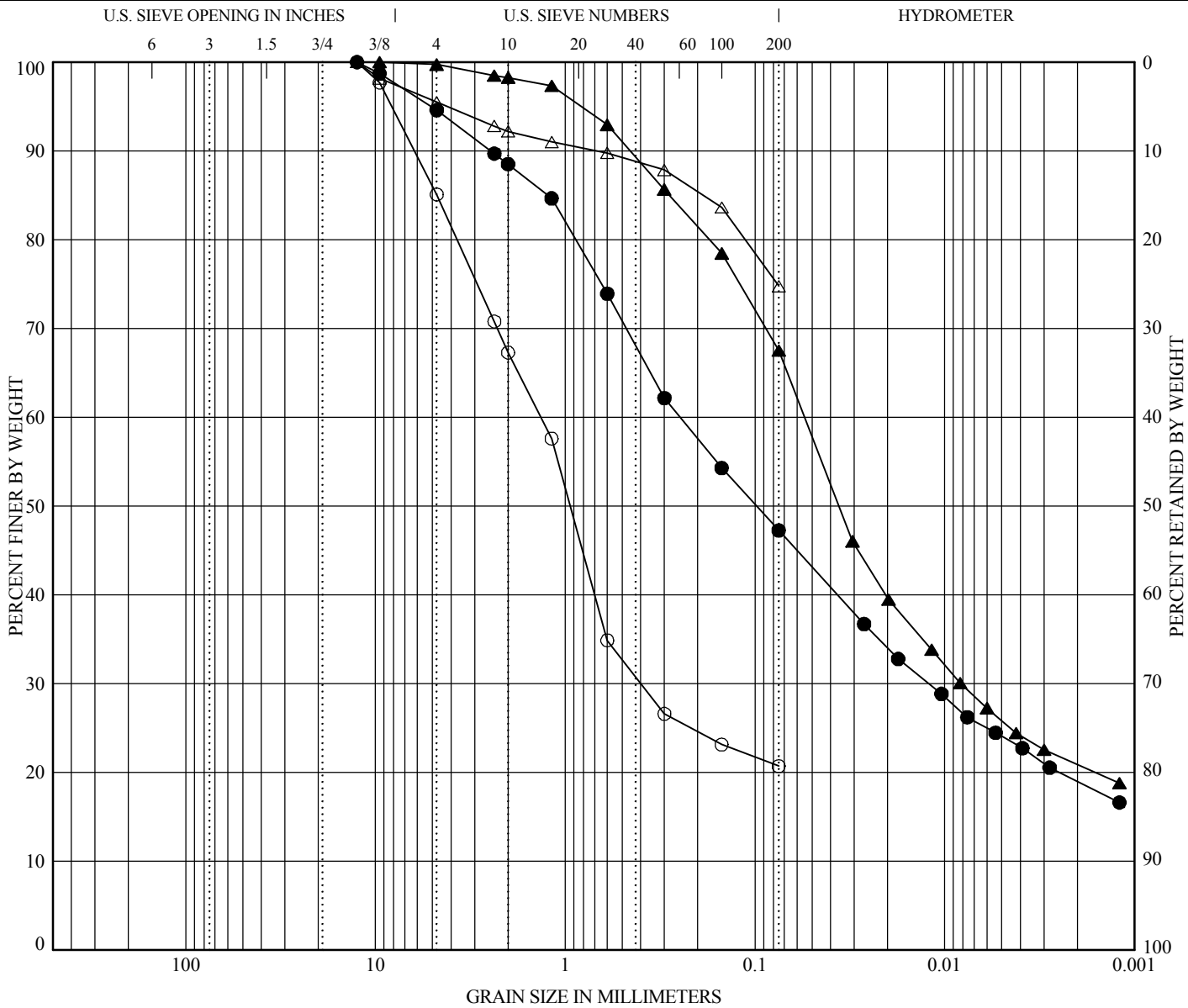
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Figure: F-6.164

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-200Alt	60.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
●	G-200Alt	65.5	CLAYEY SAND (SC)	37	13	24	--	--
△	G-200Alt	75.5	SILT with SAND (ML)	--	--	--	--	--
▲	G-200Alt	85.5	SANDY LEAN CLAY (CL)	38	14	24	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-200Alt	60.5	12.50	1.345	0.399	--	14.9	64.4	20.7
●	G-200Alt	65.5	12.50	0.248	0.012	--	5.4	47.3	47.3
△	G-200Alt	75.5	12.50	--	--	--	4.5	20.7	74.8
▲	G-200Alt	85.5	9.50	0.055	0.008	--	0.3	32.2	67.5

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: YN 8/8/2011
Checked/Date: LT 8/22/2011

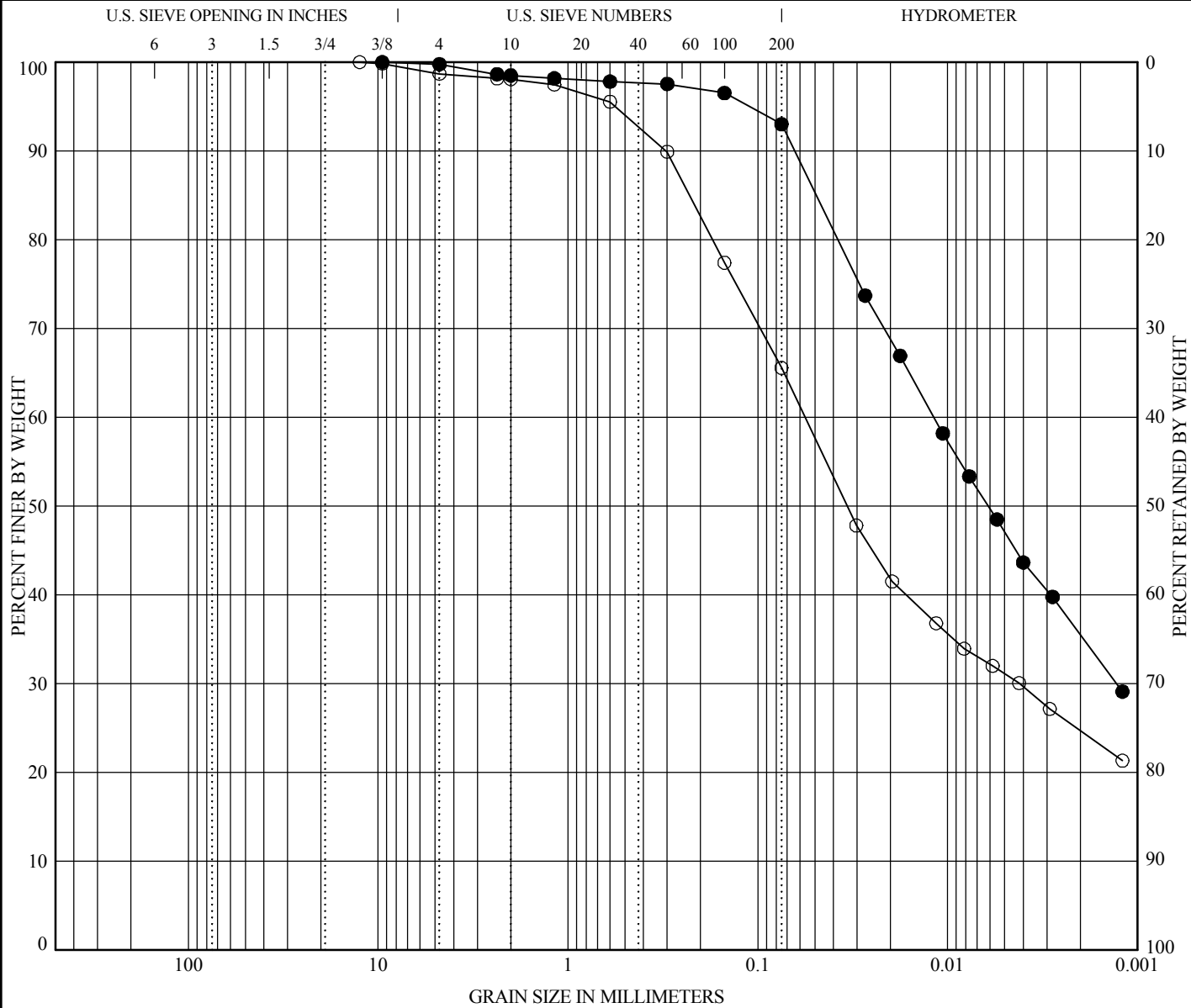
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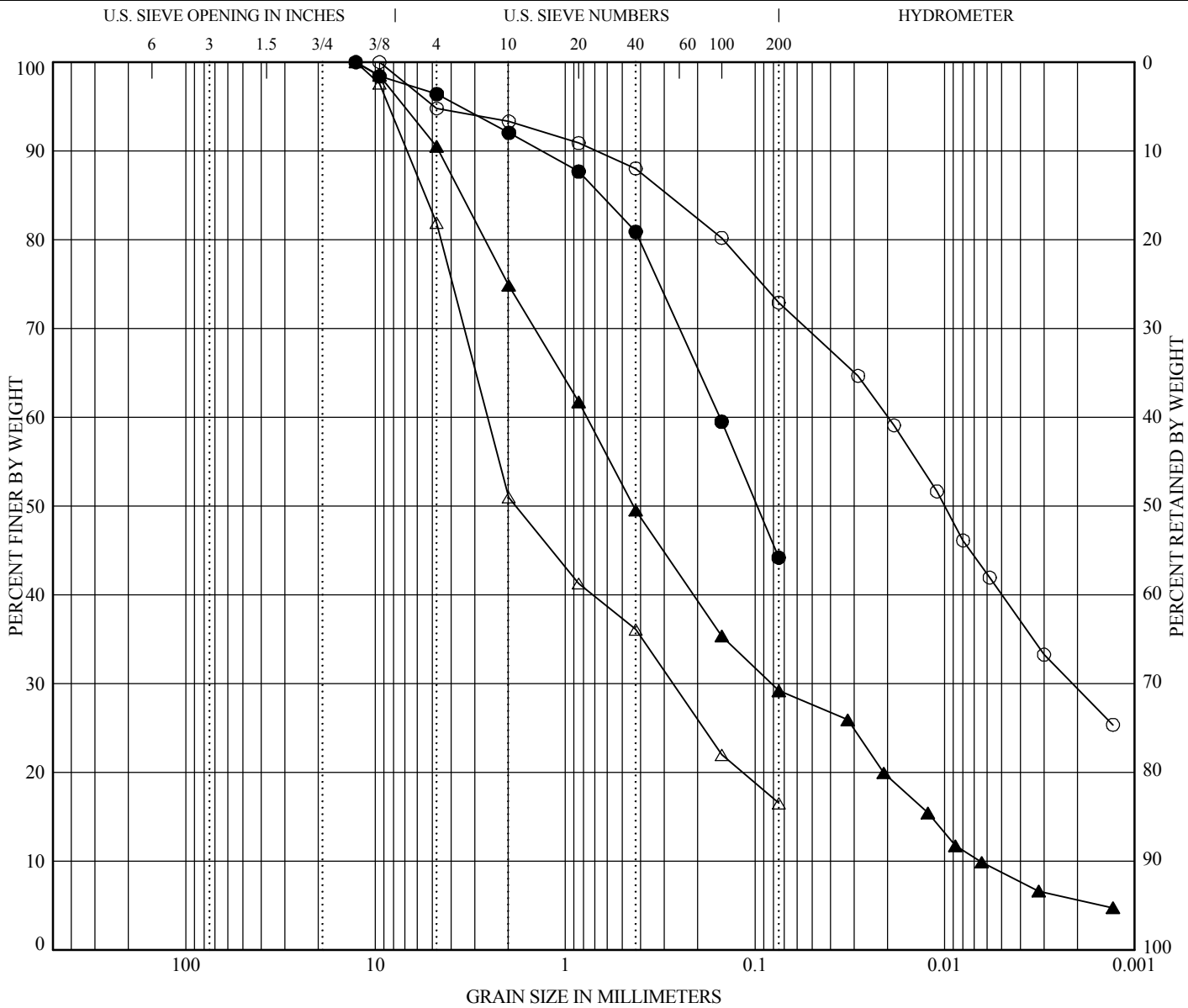


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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-203	65.5	LEAN CLAY with SAND (CL)	41	18	23	--	--
●	G-203	70.5	SILTY SAND (SM)	--	--	--	--	--
△	G-203	75.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
▲	G-203	90.5	SILTY SAND (SM)	NP	NP	NP	1.3	117.8

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-203	65.5	9.52	0.020	0.002	--	5.2	21.9	72.9
●	G-203	70.5	12.70	0.154	--	--	3.6	52.2	44.2
△	G-203	75.5	12.70	2.556	0.271	--	18.1	65.4	16.5
▲	G-203	90.5	12.70	0.770	0.082	0.007	9.5	61.3	29.2

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Checked/Date: LT 8/22/2011

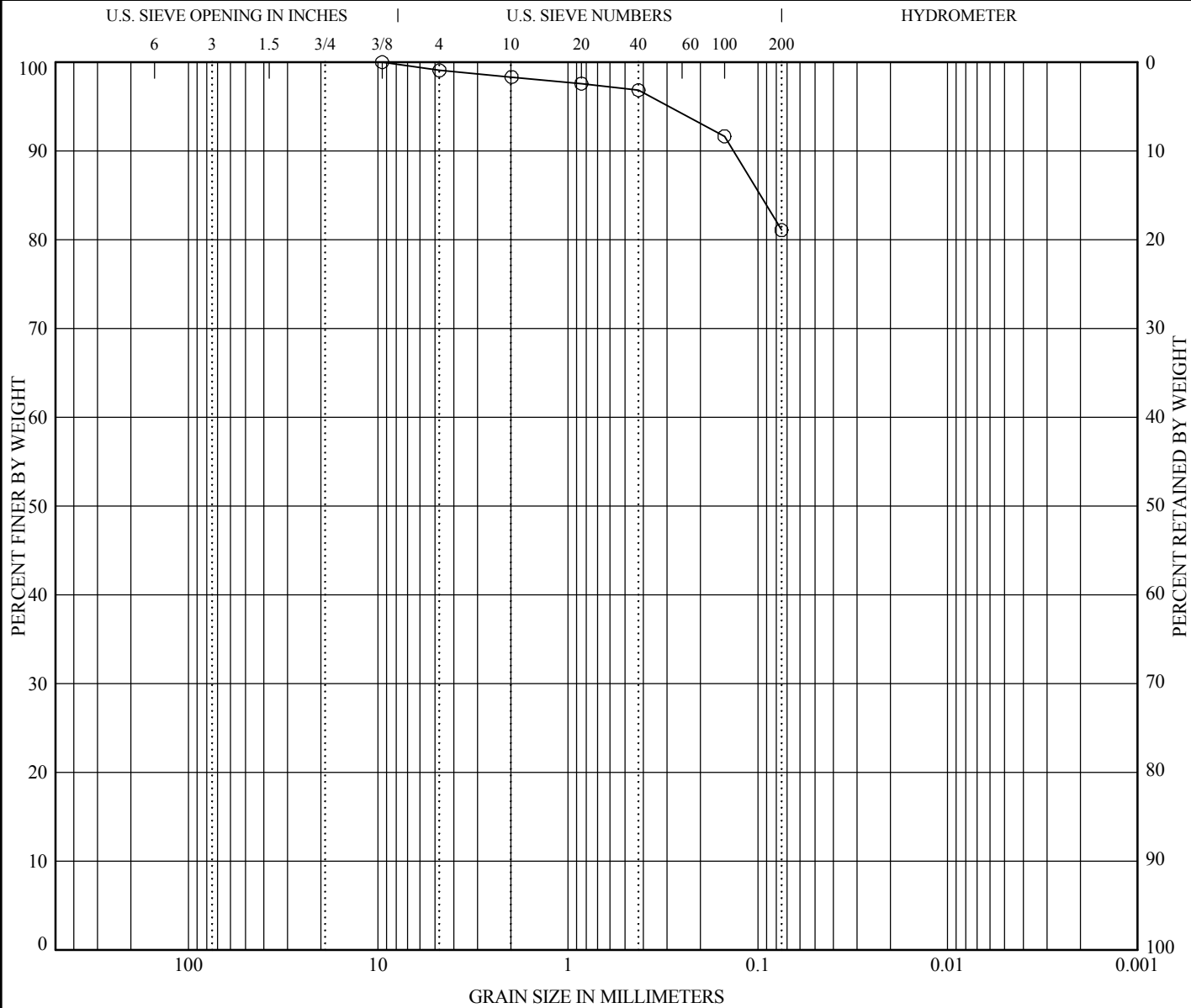
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 Figure: F-6.168

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-203	105.5	SILT with SAND (ML)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-203	105.5	9.52	--	--	--	0.9	18.0	81.1

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

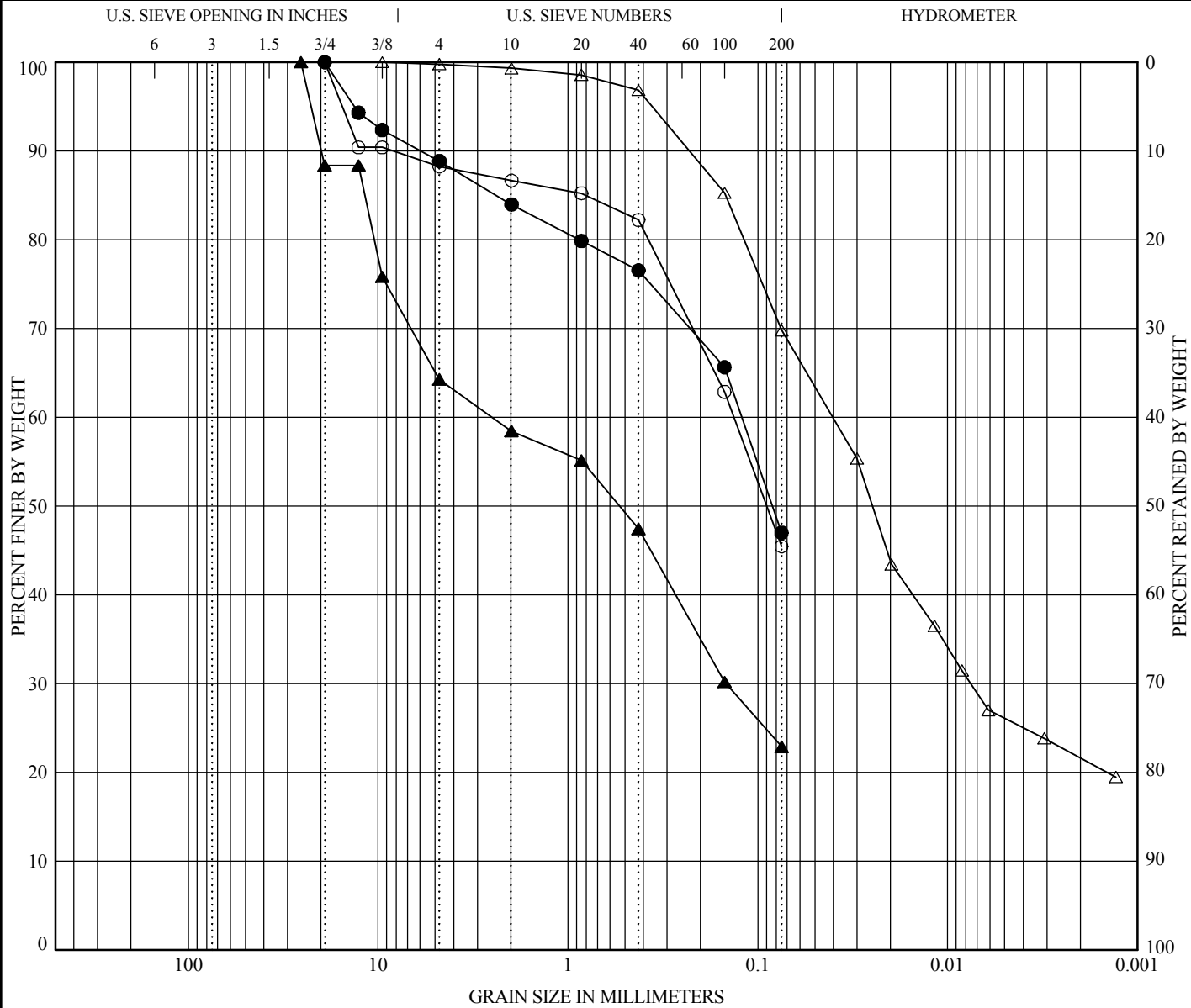
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 Figure: F-6.169

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-204	15.5	SILTY SAND (SM)	--	--	--	--	--
●	G-204	25.5	SILTY SAND (SM)	--	--	--	--	--
△	G-204	35.5	SANDY LEAN CLAY (CL)	31	16	15	--	--
▲	G-204	45.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-204	15.5	19.10	0.134	--	--	11.8	42.8	45.4
●	G-204	25.5	19.10	0.122	--	--	11.1	41.9	47.0
△	G-204	35.5	9.52	0.040	0.008	--	0.2	30.0	69.8
▲	G-204	45.5	25.40	2.505	0.147	--	35.7	41.4	22.9

Laboratory Test Method: ASTM D 422

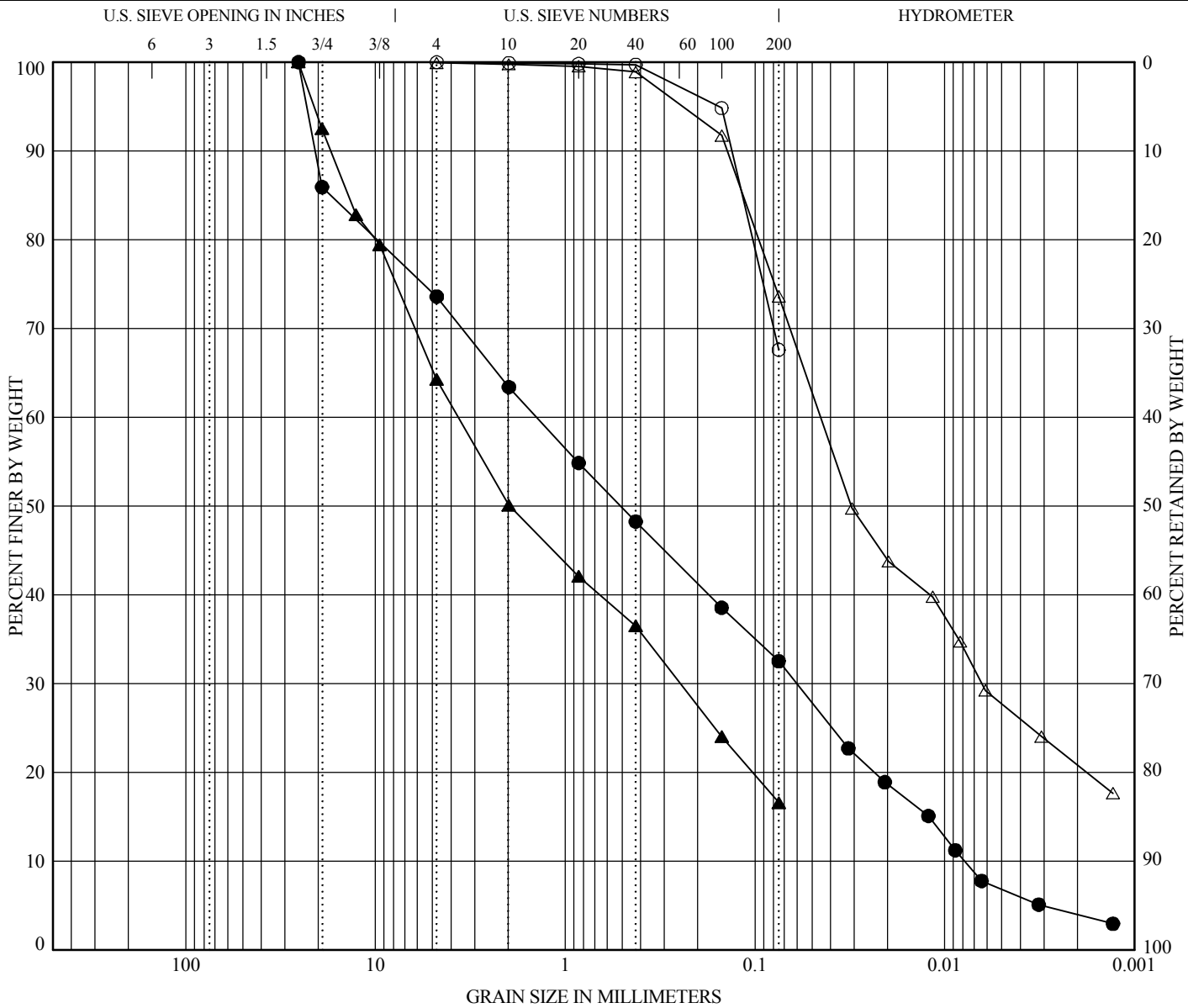
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.170



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-204	55.5	SANDY SILT (ML)	--	--	--	--	--
●	G-204	70.5	SILTY, CLAYEY SAND with GRAVEL (SC-SM)	26	20	6	0.3	179.9
△	G-204	85.5	LEAN CLAY with SAND (CL)	29	19	10	--	--
▲	G-204	95.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-204	55.5	4.75	--	--	--	0.0	32.4	67.6
●	G-204	70.5	25.40	1.414	0.060	0.008	26.4	41.1	32.5
△	G-204	85.5	4.75	0.045	0.006	--	0.0	26.3	73.6
▲	G-204	95.5	25.40	3.652	0.247	--	35.7	47.7	16.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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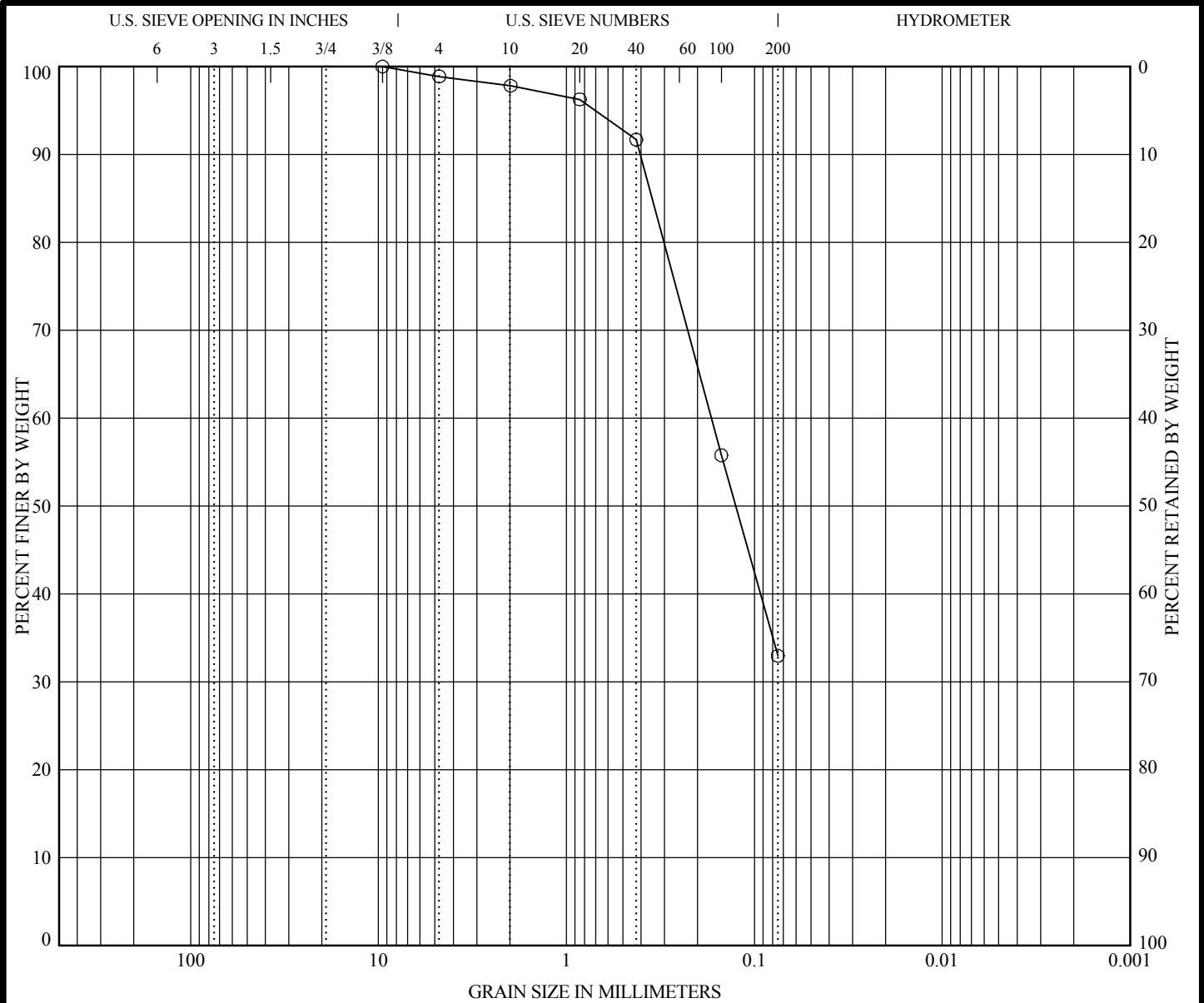
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Figure: F-6.171

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-204	115.5	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-204	115.5	9.52	0.170	--	--	1.1	65.9	33.0

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

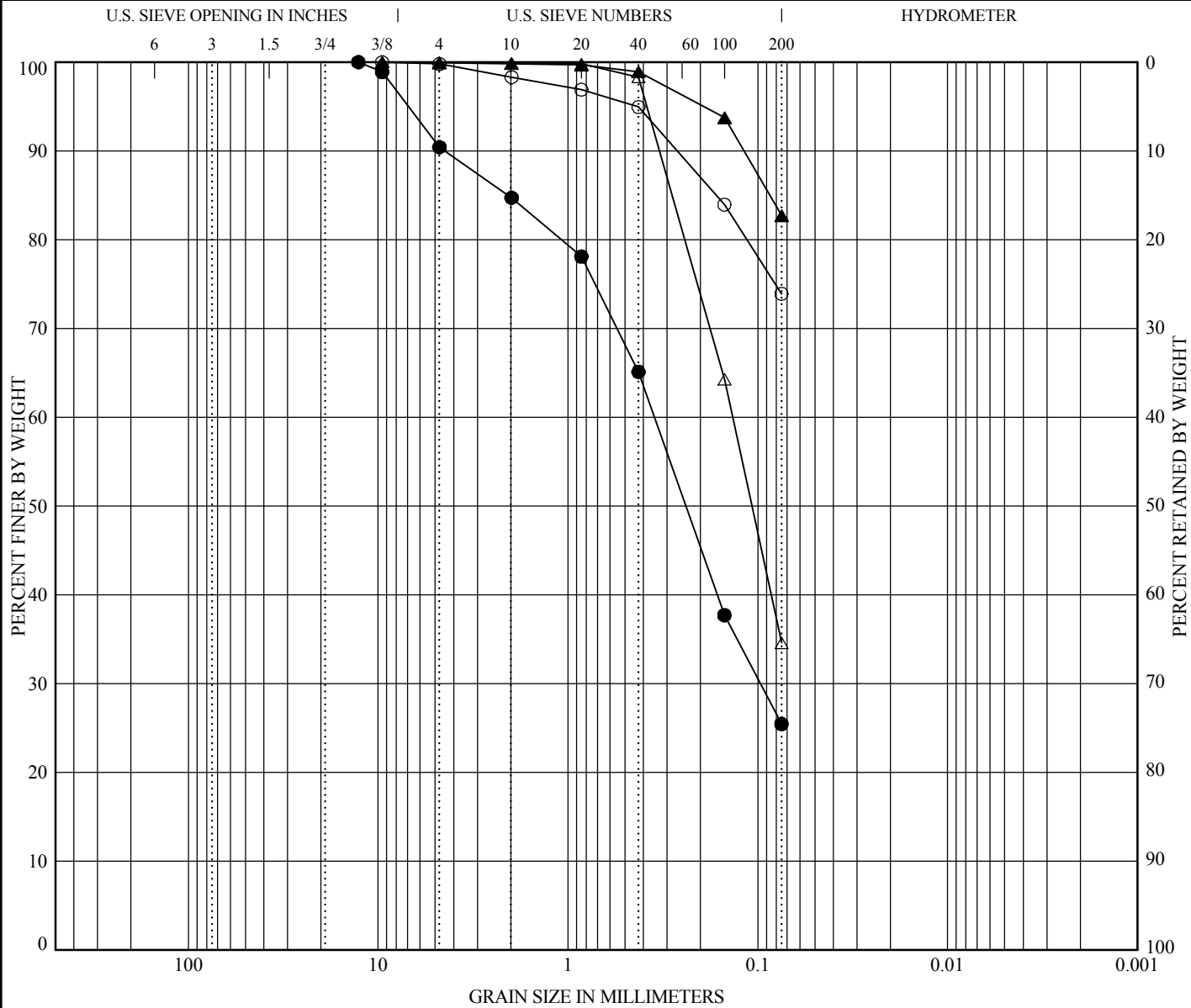
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 Figure: F-6.172

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-205	35.5	LEAN CLAY with SAND (CL)	34	19	15	--	--
●	G-205	45.5	SILTY SAND (SM)	NP	NP	NP	--	--
△	G-205	55.5	SILTY SAND (SM)	--	--	--	--	--
▲	G-205	65.5	SILT with SAND (ML)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-205	35.5	9.52	--	--	--	0.2	25.9	73.9
●	G-205	45.5	12.70	0.350	0.097	--	9.6	65.0	25.4
△	G-205	55.5	4.75	0.136	--	--	0.0	65.4	34.6
▲	G-205	65.5	9.52	--	--	--	0.1	17.2	82.7

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

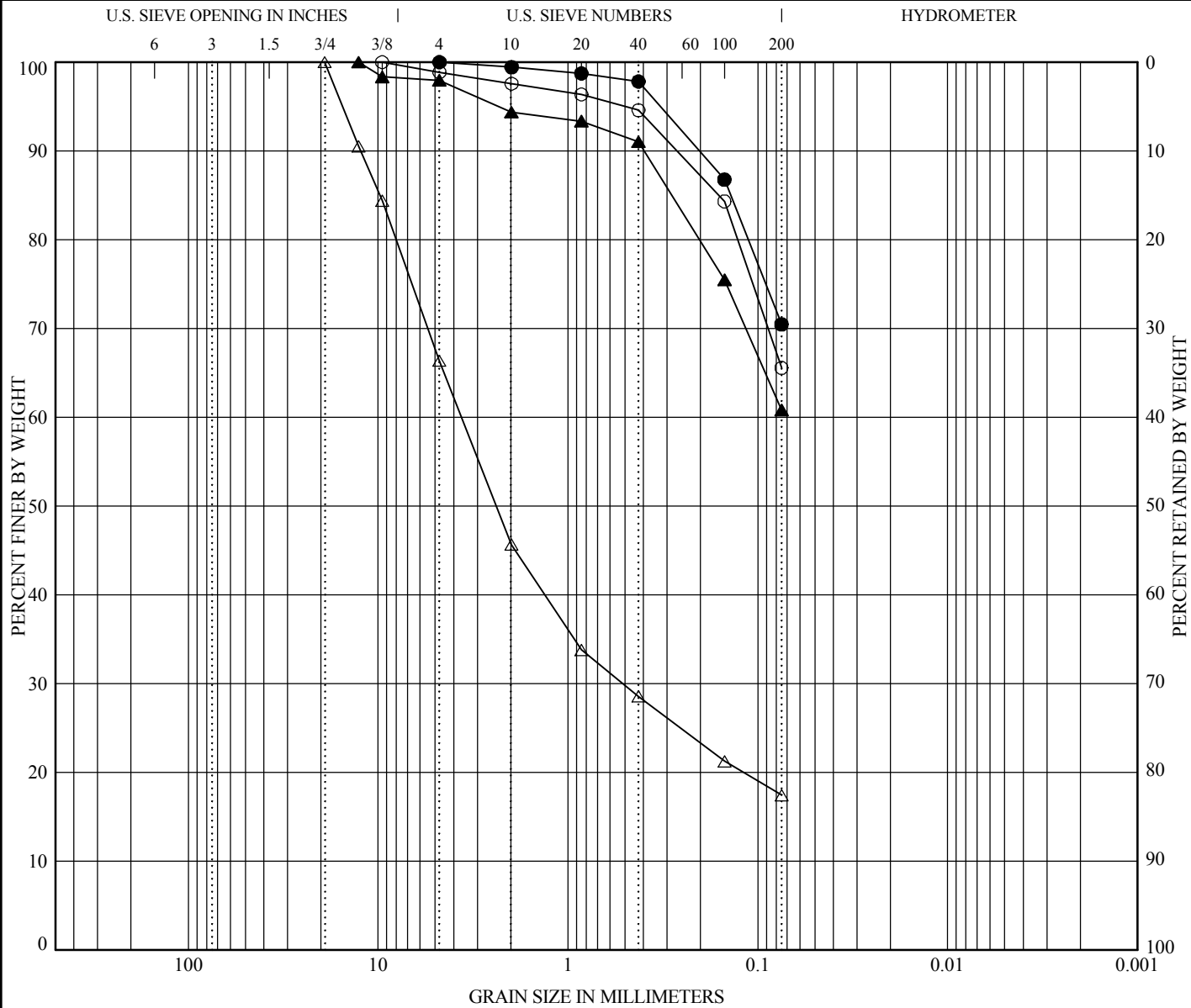
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 Figure: F-6.173

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-205	70.5	SANDY SILT (ML)	--	--	--	--	--
●	G-205	80.5	SILT with SAND (ML)	--	--	--	--	--
△	G-205	85.5	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
▲	G-205	90.5	SANDY SILT (ML)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-205	70.5	9.52	--	--	--	1.1	33.3	65.6
●	G-205	80.5	4.75	--	--	--	0.0	29.5	70.5
△	G-205	85.5	19.10	3.629	0.513	--	33.6	48.9	17.4
▲	G-205	90.5	12.70	--	--	--	2.0	37.2	60.8

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

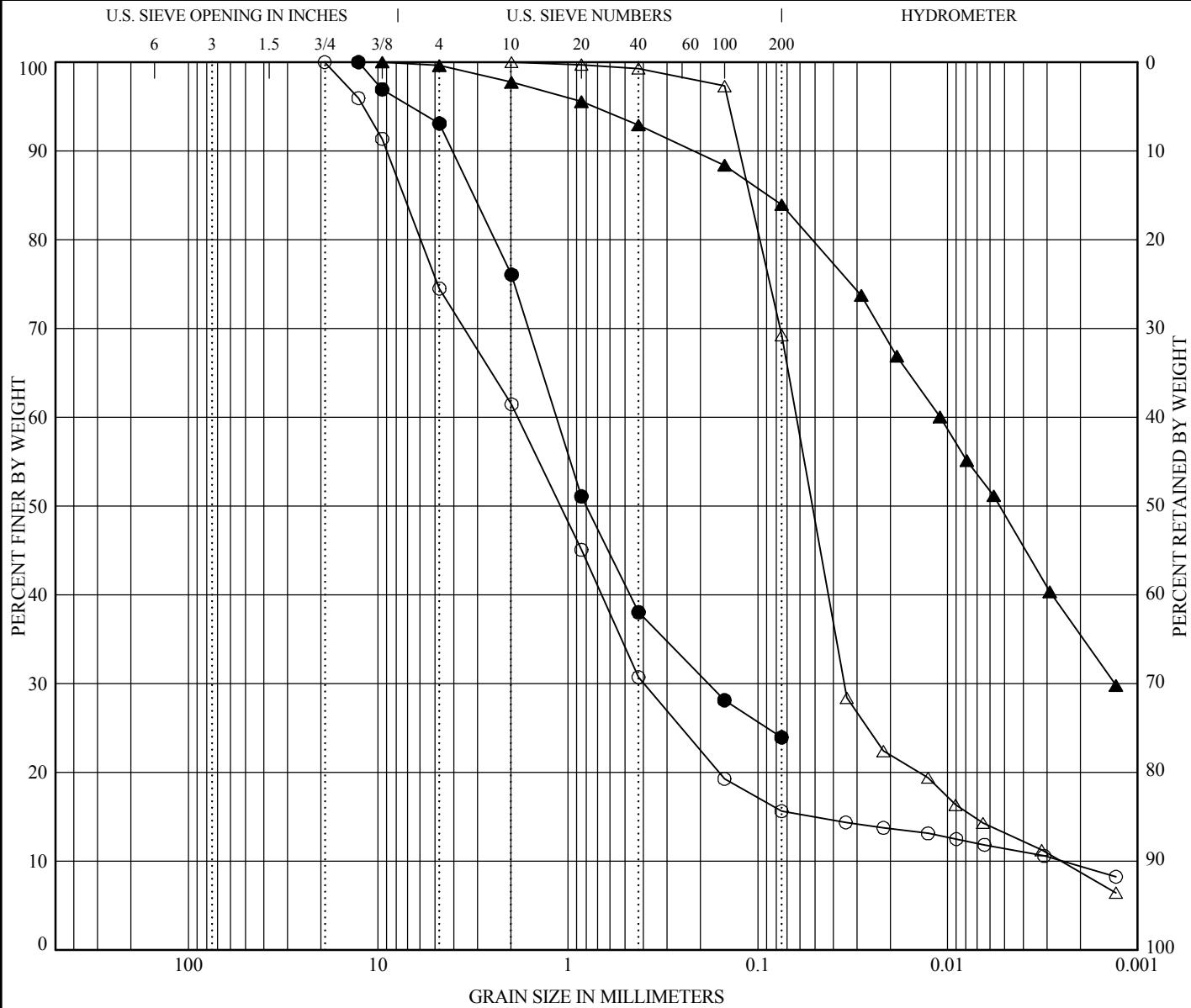
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-206	15.5	SILTY SAND with GRAVEL (SM)	--	--	--	34.5	734.5
●	G-206	25.5	CLAYEY SAND (SC)	--	--	--	--	--
△	G-206	40.5	SANDY SILT (ML)	NP	NP	NP	7.7	24.8
▲	G-206	45.5	FAT CLAY with SAND (CH)	60	21	39	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-206	15.5	19.10	1.837	0.398	0.003	25.5	58.9	15.6
●	G-206	25.5	12.70	1.150	0.183	--	6.9	69.2	23.9
△	G-206	40.5	1.98	0.063	0.035	0.003	0.0	30.7	69.3
▲	G-206	45.5	9.52	0.011	0.001	--	0.4	15.7	83.9

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

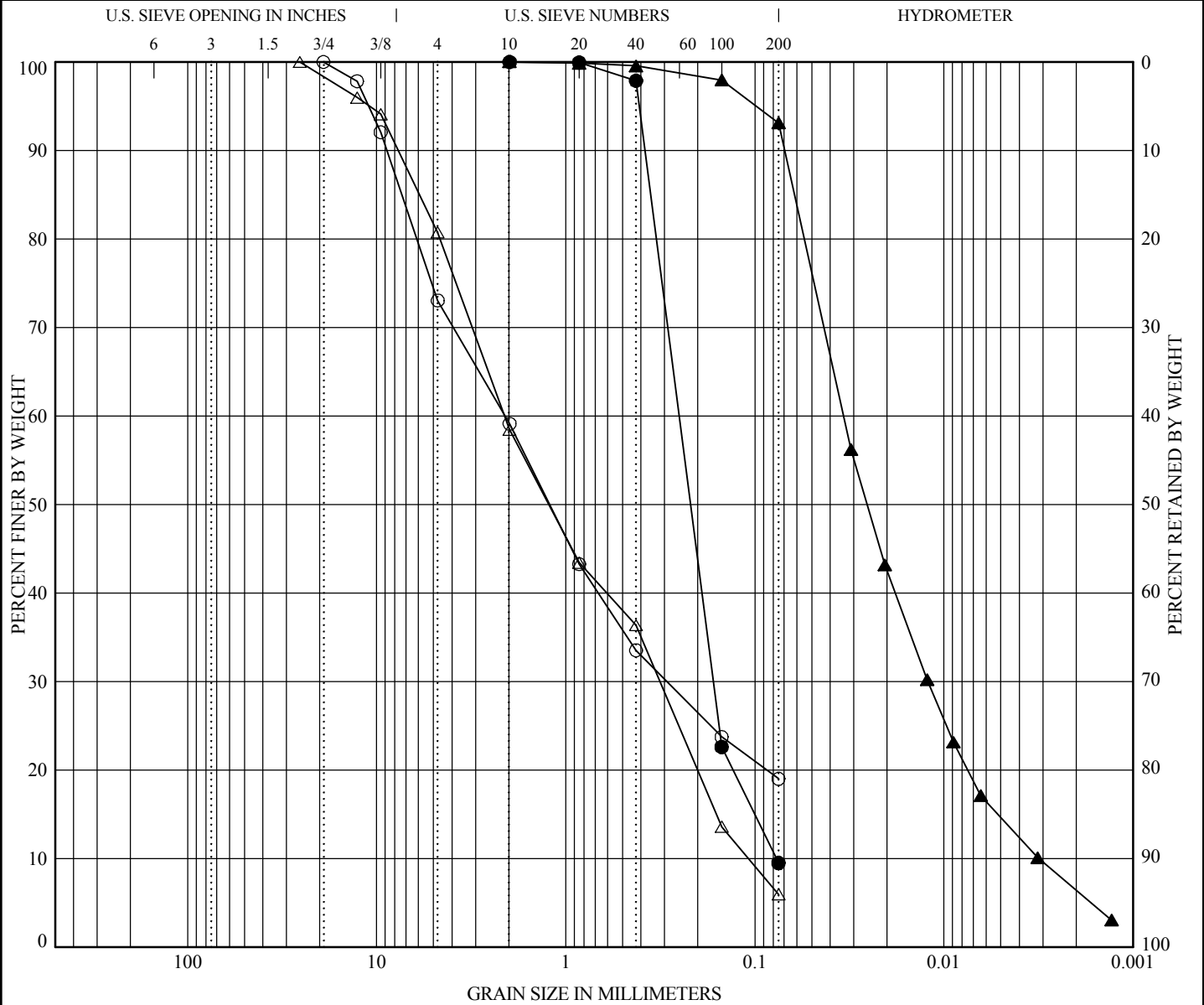
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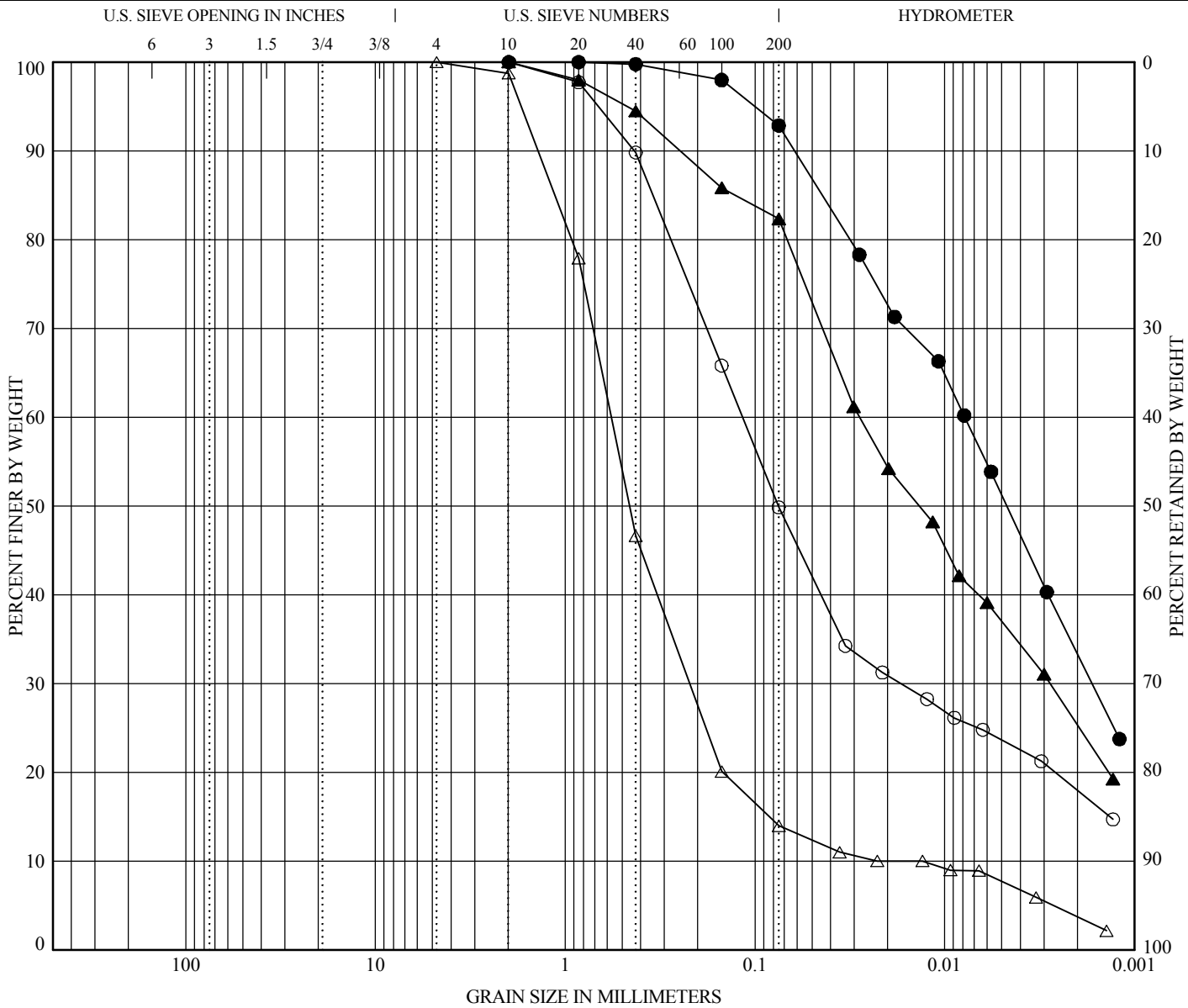
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 Figure: F-6.175

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-207	10.5	CLAYEY SAND (SC)	--	--	--	--	--
●	G-207	30.5	FAT CLAY (CH)	53	23	30	--	--
△	G-207	40.5	SILTY SAND (SM)	--	--	--	6.6	43.9
▲	G-207	51.5	LEAN CLAY with SAND (CL)	47	19	28	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-207	10.5	1.98	0.117	0.017	--	0.0	50.1	49.9
●	G-207	30.5	1.98	0.008	0.002	--	0.0	7.1	92.9
△	G-207	40.5	4.75	0.571	0.221	0.013	0.0	86.0	14.0
▲	G-207	51.5	1.98	0.028	0.003	--	0.0	17.7	82.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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Checked/Date: LT/HP 9/19/11

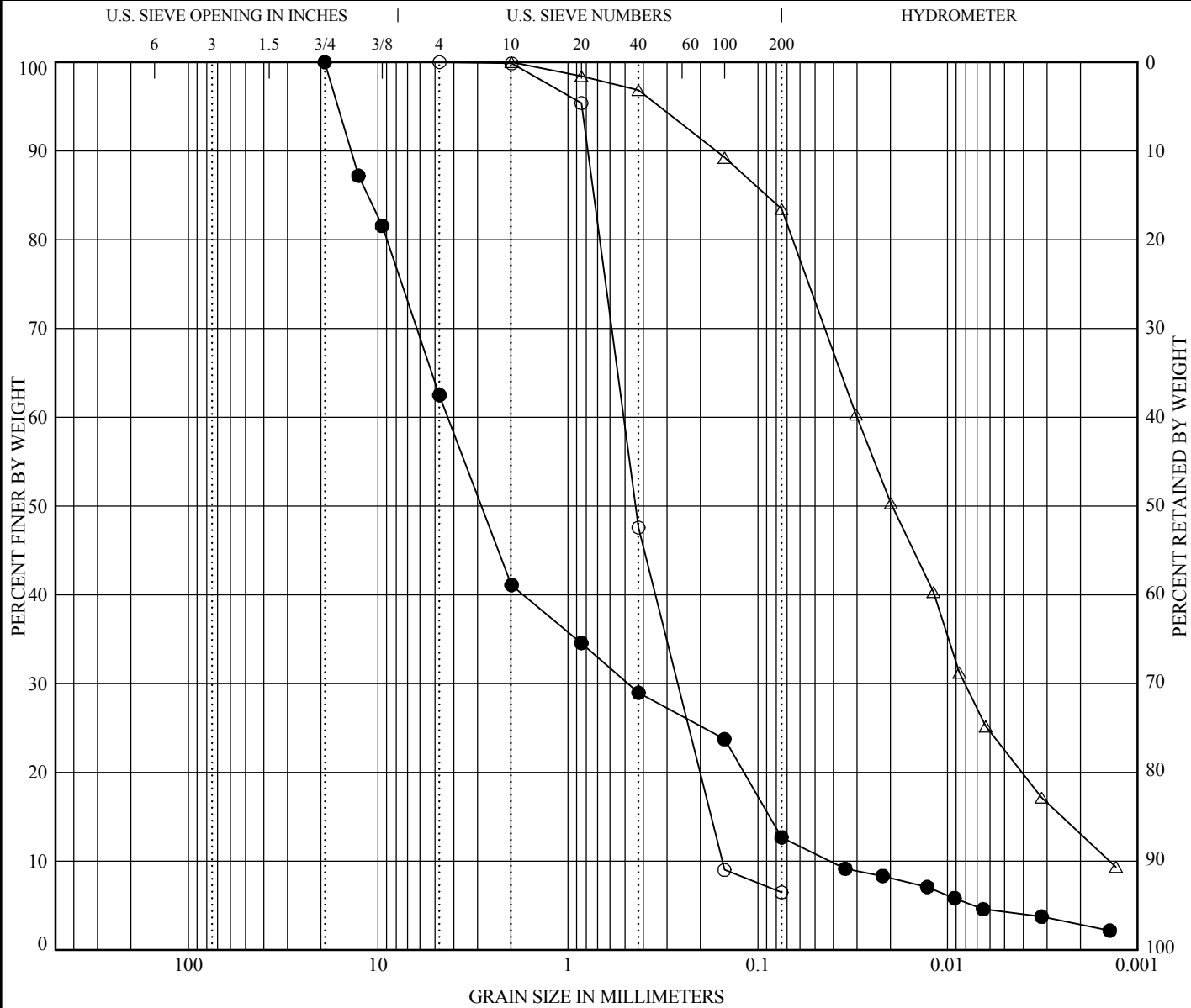
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Figure: F-6.177

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	G-207	55.5	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	0.9	3.3
●	G-207	71.5	SILTY SAND with GRAVEL (SM)	--	--	--	1.3	102.8
△	G-207	80.5	SANDY SILTSTONE	54	42	12	1.6	21.4

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	G-207	55.5	4.75	0.509	0.264	0.154	0.0	93.5	6.5
●	G-207	71.5	19.10	4.289	0.483	0.042	37.5	49.8	12.7
△	G-207	80.5	1.98	0.030	0.008	0.001	0.0	16.6	83.4

Laboratory Test Method: ASTM D 422
 *As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

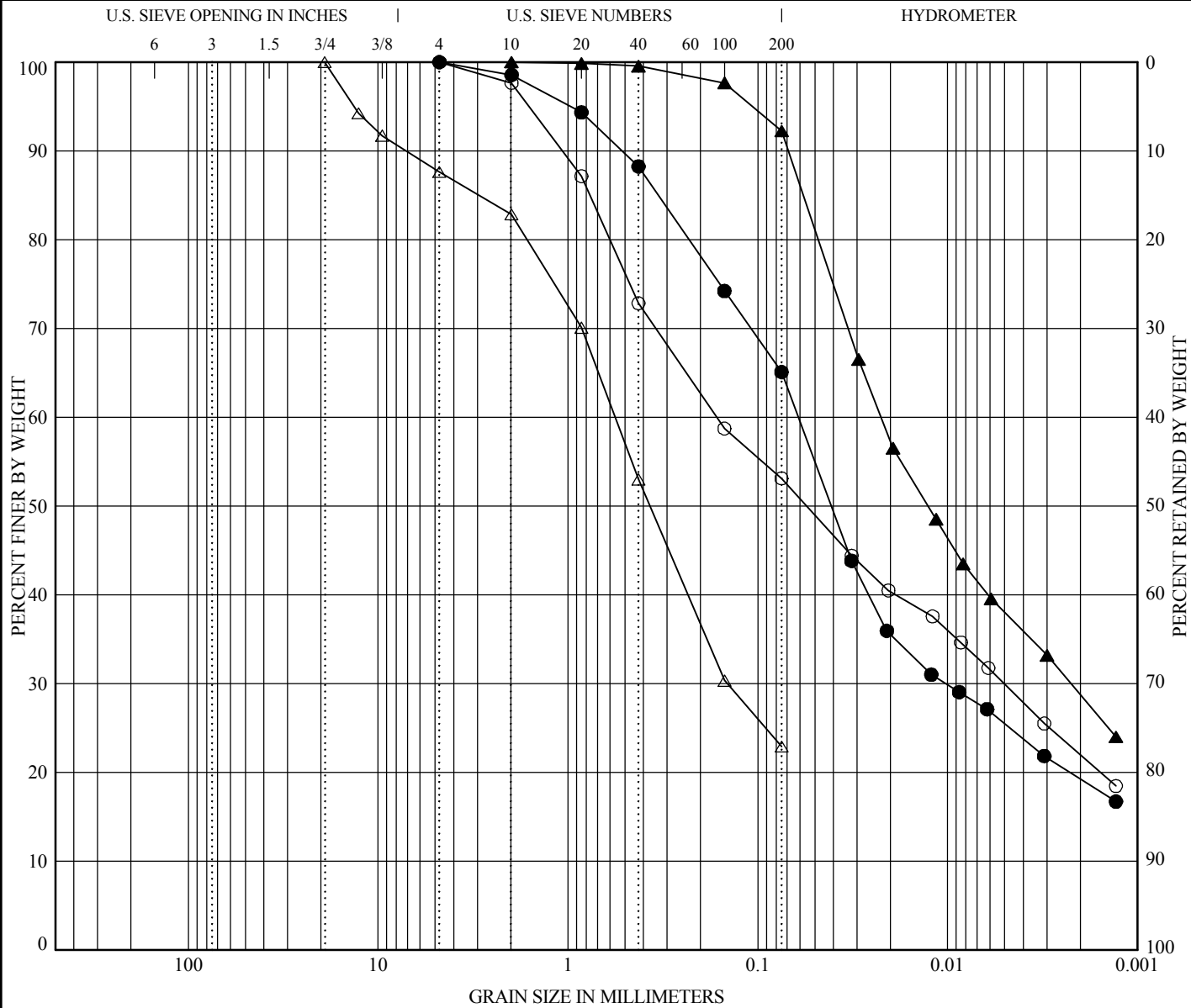
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 Figure: F-6.178

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-101	19-20	SANDY LEAN CLAY (CL)	46	25	21	--	--
●	S-101	33.1-33.9	SANDY LEAN CLAY (CL)	41	24	17	--	--
△	S-101	39-40	CLAYEY SAND (SC)	32	17	15	--	--
▲	S-101	44.4-45.4	ELASTIC SILT (MH)	52	29	23	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-101	19-20	4.75	0.165	0.005	--	0.0	46.9	53.1
●	S-101	33.1-33.9	4.75	0.061	0.010	--	0.0	34.9	65.1
△	S-101	39-40	19.10	0.564	0.145	--	12.4	64.7	22.9
▲	S-101	44.4-45.4	1.98	0.022	0.002	--	0.0	7.8	92.2

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

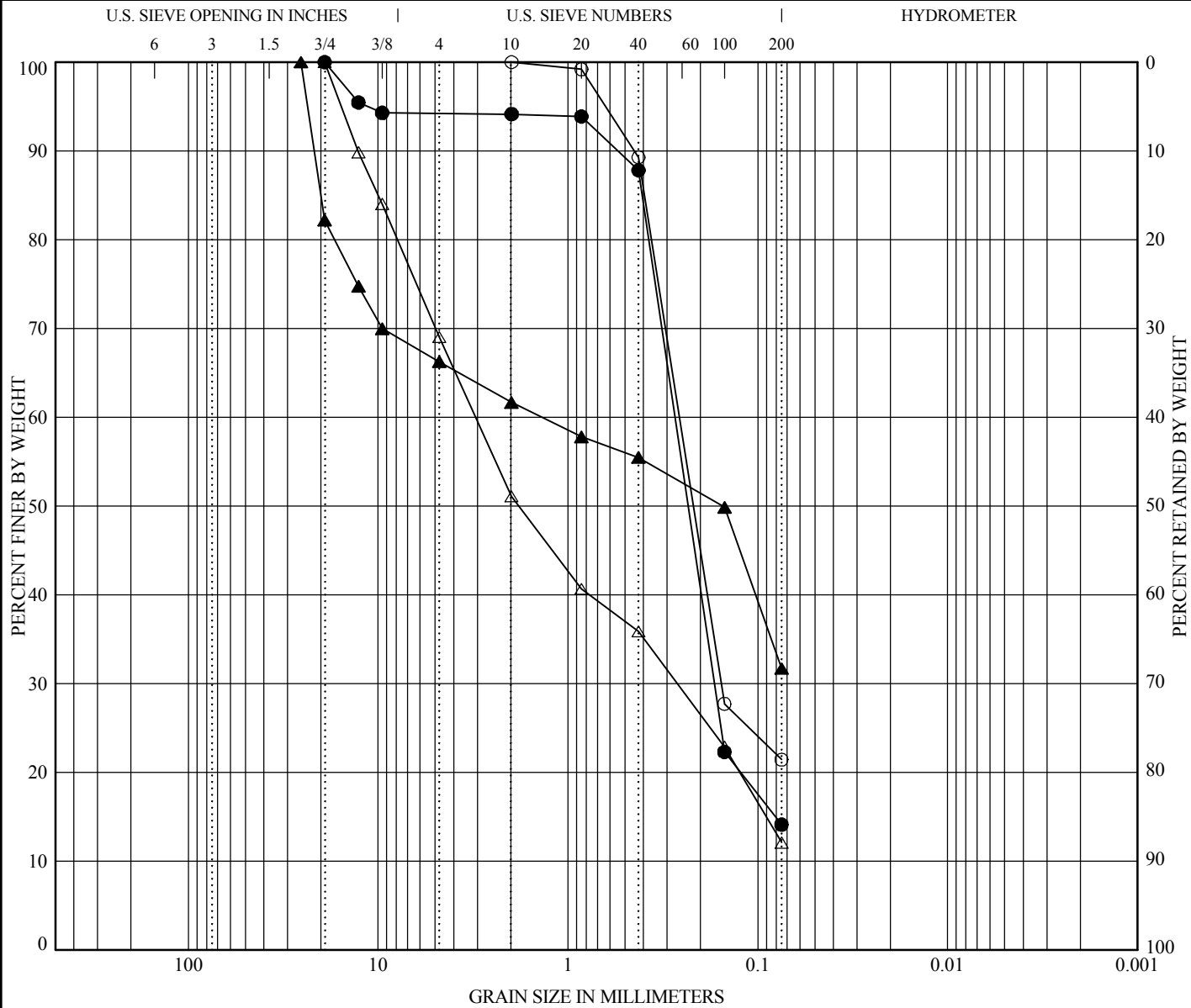
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 Figure: F-6.179

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-101	49.5-50.5	SILTY SAND (SM)	--	--	--	--	--
●	S-101	55-56	SILTY SAND (SM)	--	--	--	--	--
△	S-101	63-64	SILTY SAND with GRAVEL (SM)	--	--	--	0.4	46.7
▲	S-101	67-68.2	SILTY SAND with GRAVEL (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-101	49.5-50.5	1.98	0.259	0.156	--	0.0	78.6	21.4
●	S-101	55-56	19.10	0.273	0.170	--	5.8	80.1	14.1
△	S-101	63-64	19.10	3.057	0.265	--	31.0	56.9	12.1
▲	S-101	67-68.2	25.40	1.376	--	--	33.7	34.6	31.7

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

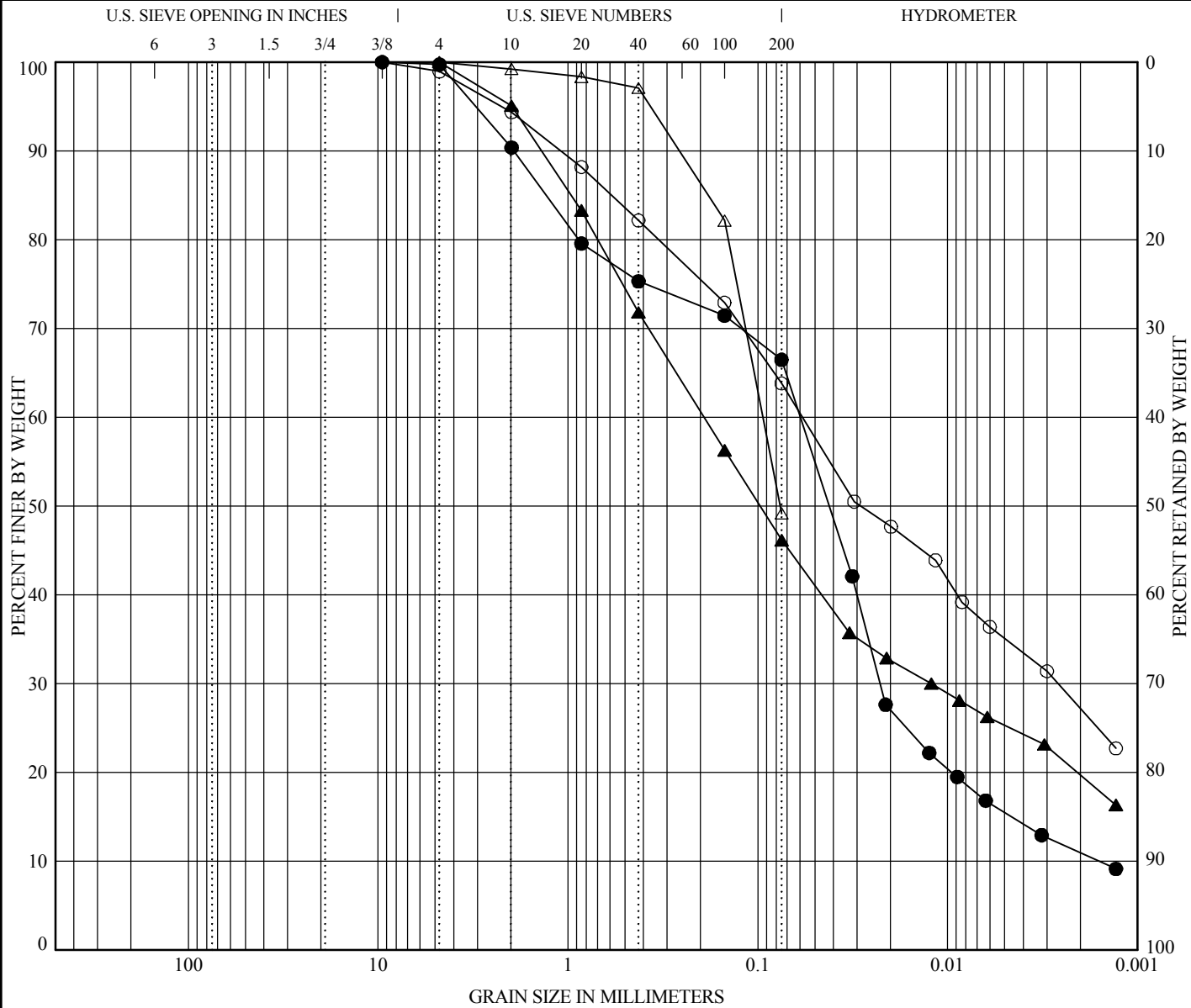
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-102	31.2-32	SANDY SILT (ML)	39	26	13	--	--
●	S-102	42.7-43.7	SANDY SILT (ML)	NP	NP	NP	5.4	37.4
△	S-102	45.3-46.3	SILTY SAND (SM)	--	--	--	--	--
▲	S-102	48.5-49.5	CLAYEY SAND (SC)	44	25	19	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-102	31.2-32	9.52	0.058	0.003	--	1.1	35.1	63.8
●	S-102	42.7-43.7	9.52	0.060	0.023	0.002	0.3	33.3	66.5
△	S-102	45.3-46.3	4.75	0.094	--	--	0.0	50.8	49.2
▲	S-102	48.5-49.5	4.75	0.192	0.012	--	0.0	53.8	46.2

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

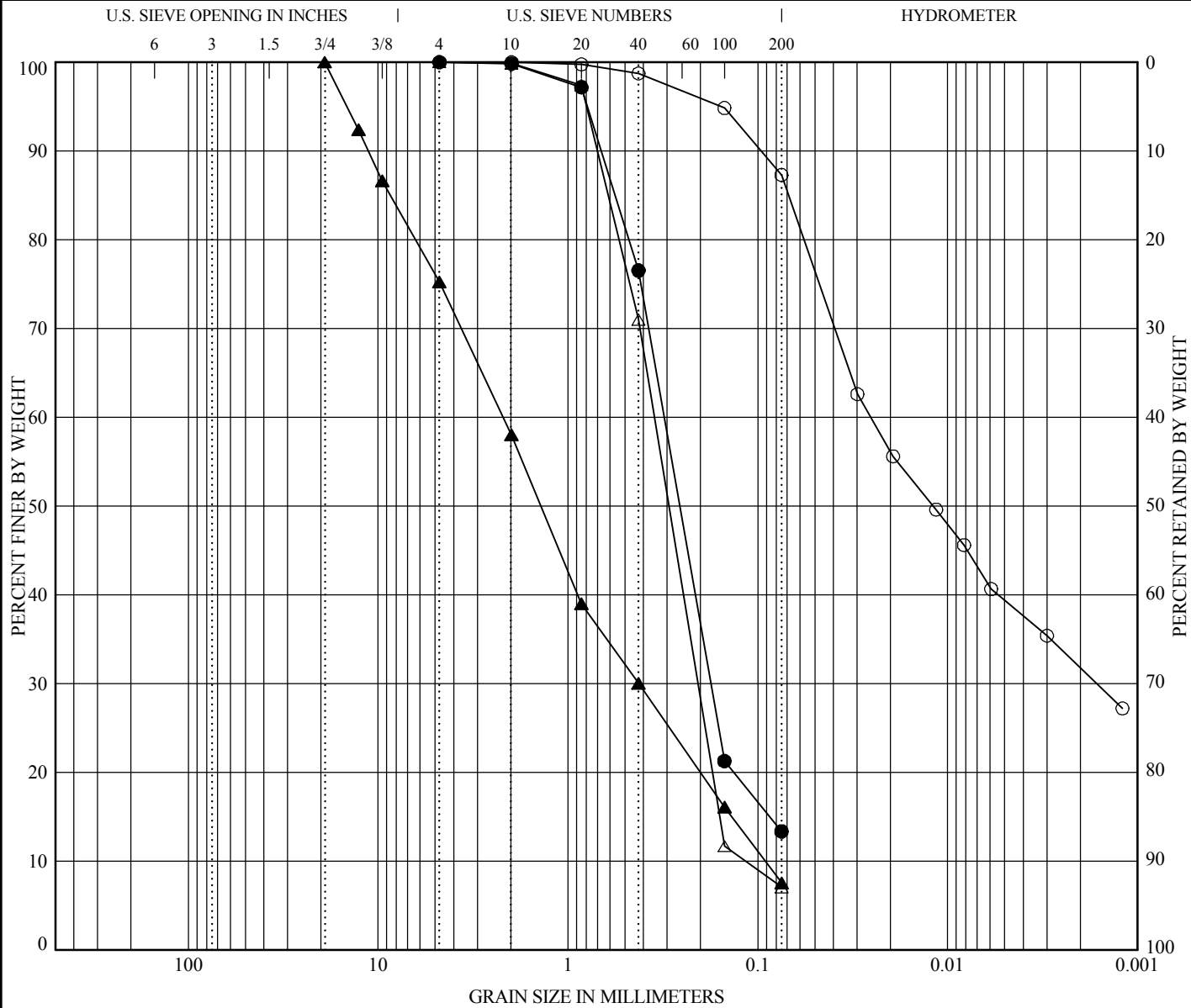
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 Figure: F-6.181

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-102	56.1-57.1	ELASTIC SILT (MH)	55	31	24	--	--
●	S-102	60-61	SILTY SAND (SM)	--	--	--	--	--
△	S-102	67-68	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.1	3.0
▲	S-102	72.5-73	POORLY GRADED SAND with SILT and GRAVEL (SP-SM)	NP	NP	NP	0.9	23.9

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-102	56.1-57.1	1.98	0.025	0.002	--	0.0	12.7	87.3
●	S-102	60-61	4.75	0.311	0.177	--	0.0	86.7	13.3
△	S-102	67-68	4.75	0.350	0.207	0.116	0.0	92.9	7.1
▲	S-102	72.5-73	19.10	2.190	0.424	0.091	24.7	67.7	7.6

Laboratory Test Method: ASTM D 422

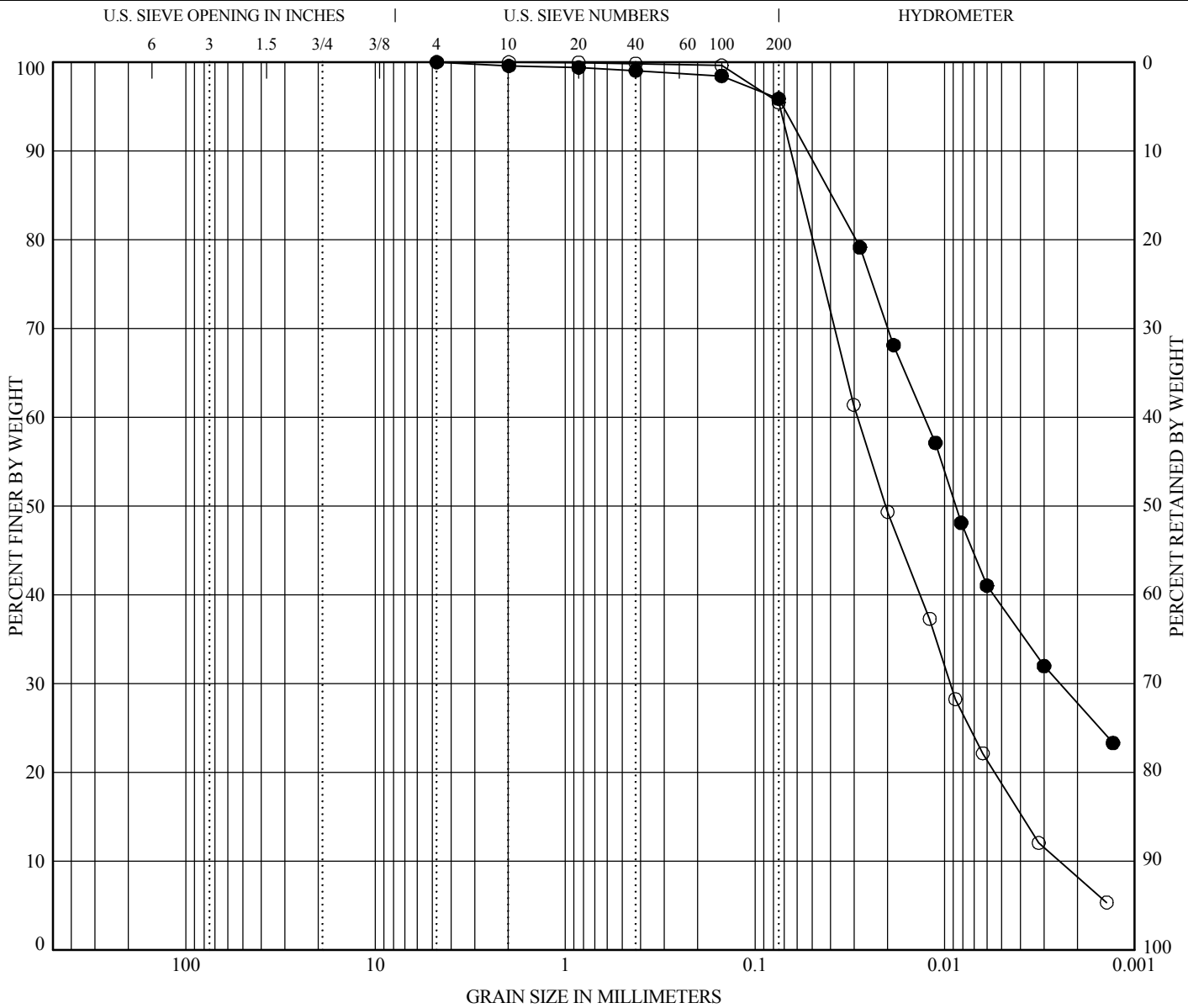
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.182



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-102	79-80	SILTSTONE	50	33	17	1.2	11.6
●	S-102	87-88	SILTSTONE	56	38	18	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-102	79-80	1.98	0.029	0.009	0.002	0.0	4.6	95.4
●	S-102	87-88	4.75	0.013	0.002	--	0.0	4.1	95.9

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

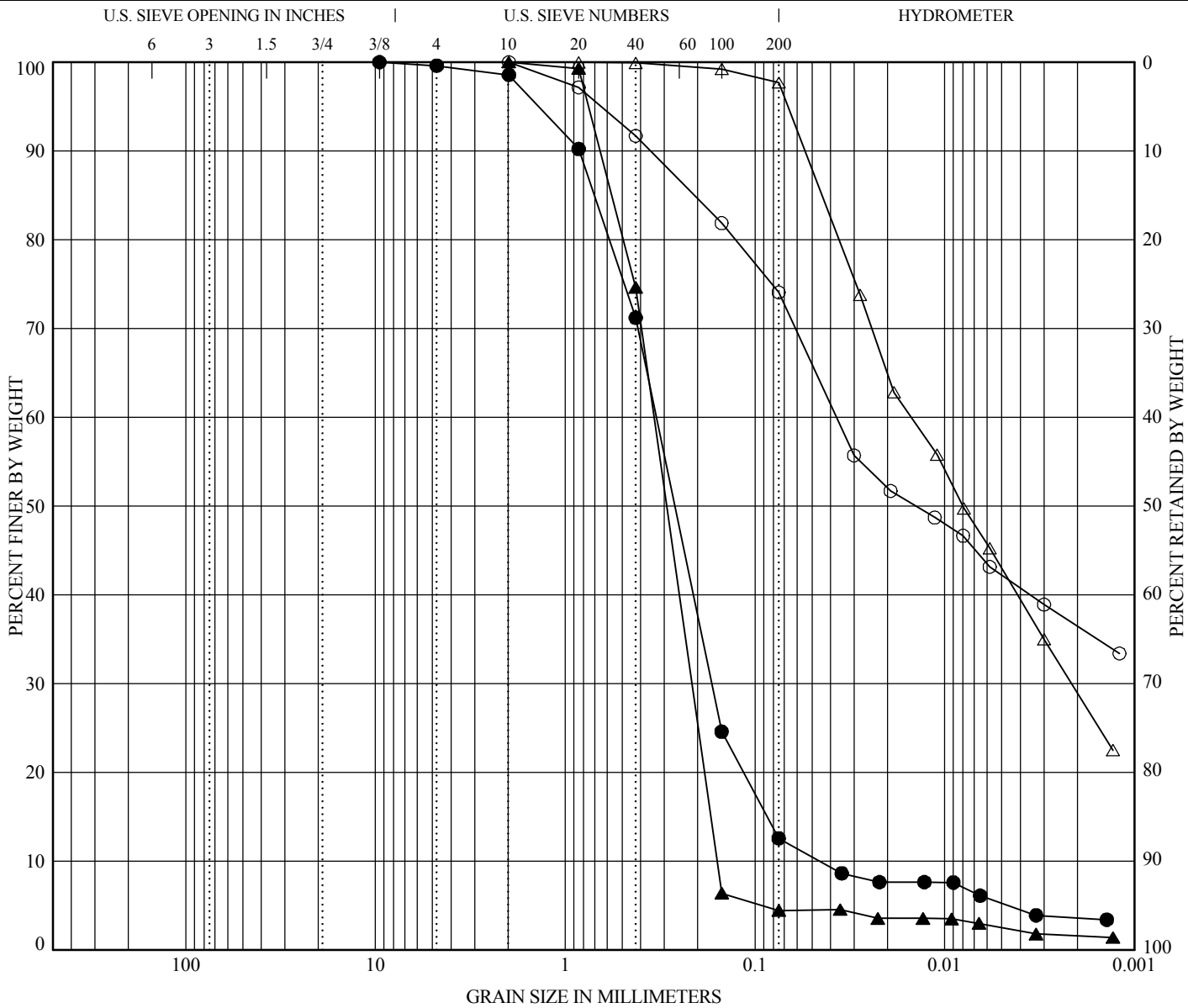
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Figure: F-6.183



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-103A	14-15	ELASTIC SILT with SAND (MH)	89	41	48	--	--
●	S-103A	26-27	SILTY SAND (SM)	NP	NP	NP	1.9	7.3
△	S-103A	46-47	FAT CLAY (CH)	55	21	34	--	--
▲	S-103A	59-60	POORLY GRADED SAND (SP)	NP	NP	NP	0.9	2.1

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-103A	14-15	1.98	0.037	--	--	0.0	25.9	74.1
●	S-103A	26-27	9.52	0.331	0.169	0.046	0.4	87.0	12.6
△	S-103A	46-47	1.98	0.015	0.002	--	0.0	2.3	97.7
▲	S-103A	59-60	1.98	0.340	0.215	0.159	0.0	95.6	4.4

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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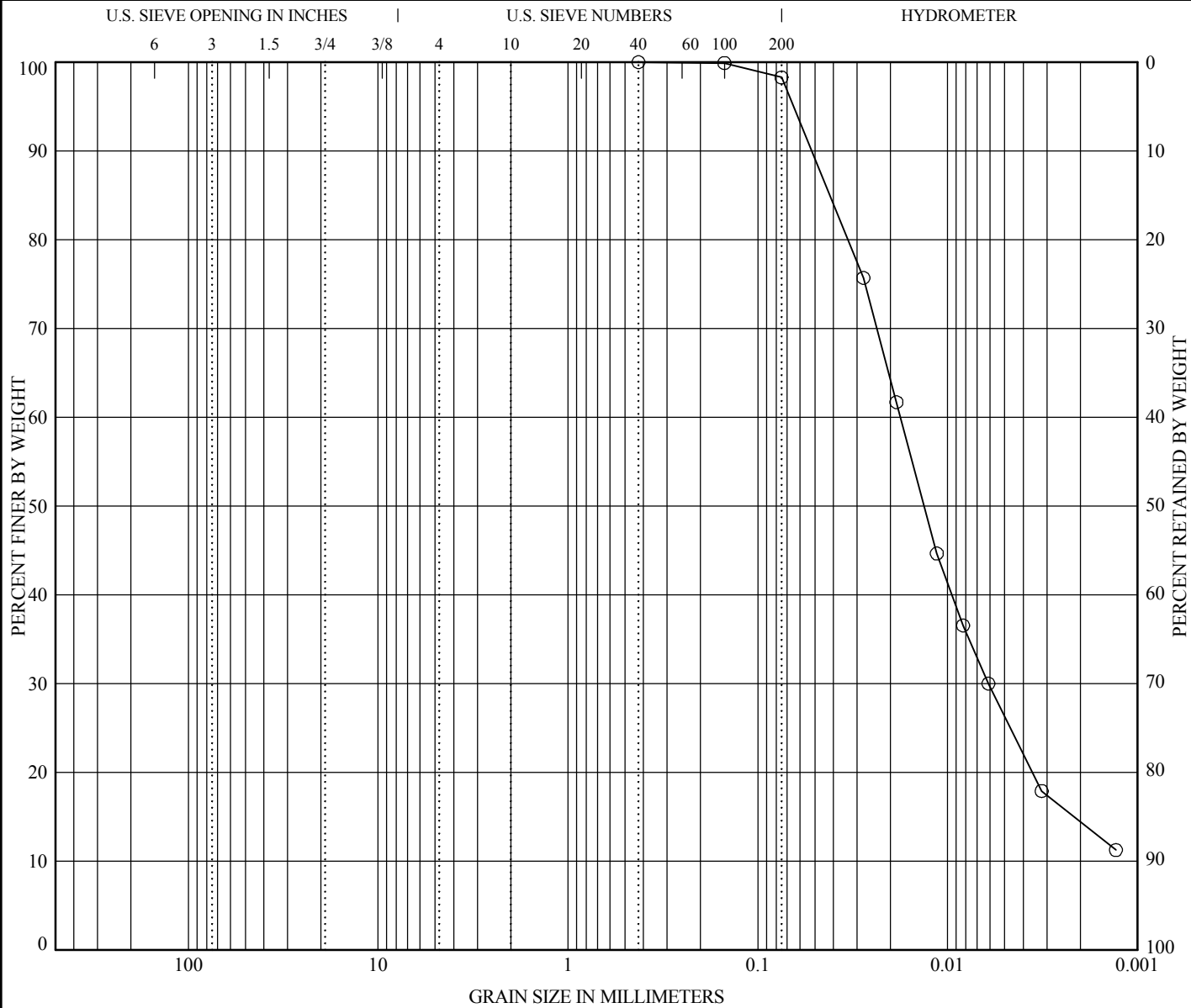
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Figure: F-6.184

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-103A	121-122	SILTSTONE	58	36	22	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-103A	121-122	0.43	0.018	0.006	--	0.0	1.7	98.3

Laboratory Test Method: ASTM D 422

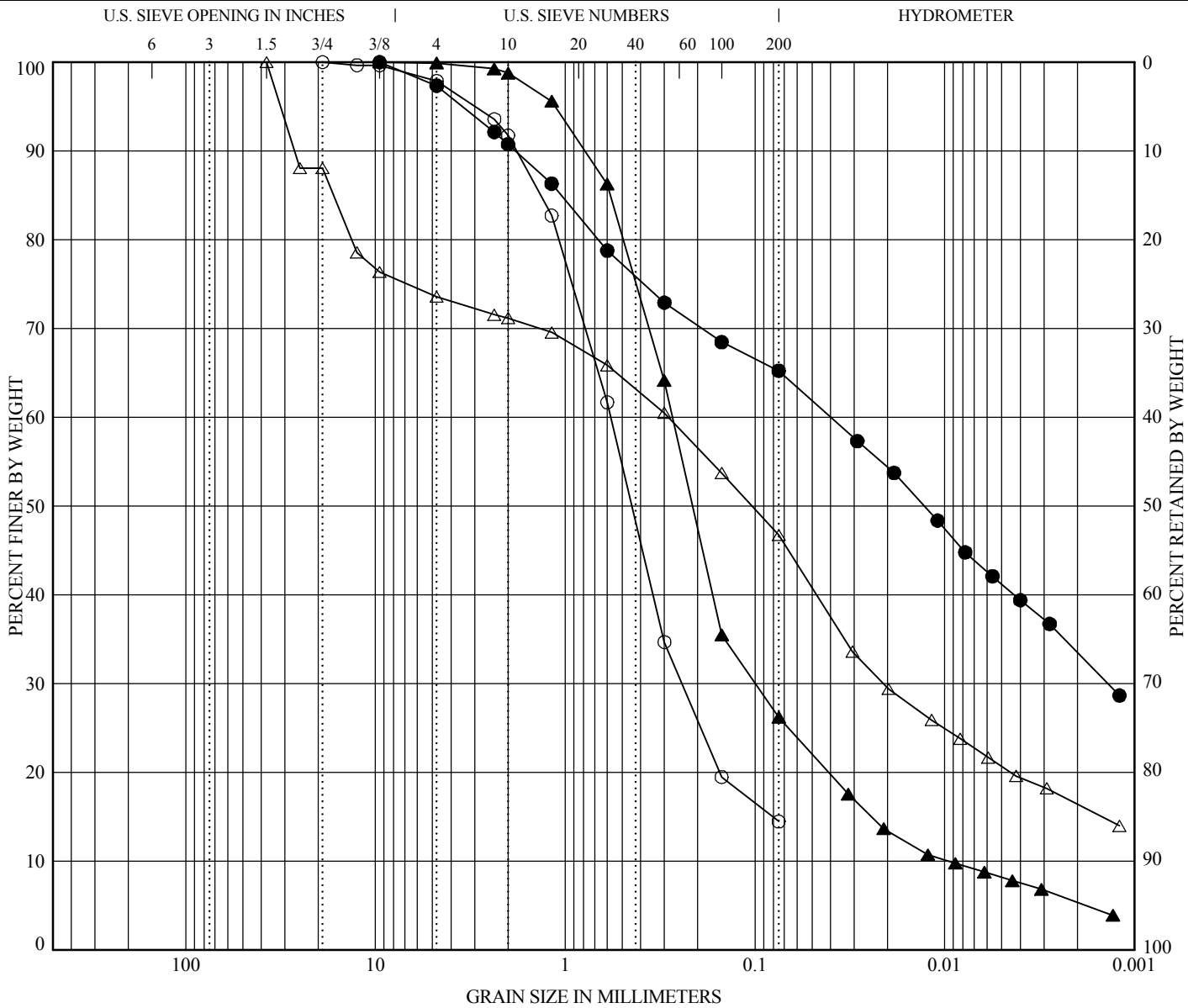
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.186



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-104	8-9	SILTY SAND (SM)	--	--	--	--	--
●	S-104	23-24	SANDY SILTY CLAY (CL-ML)	--	--	--	--	--
△	S-104	35-36	CLAYEY SAND with GRAVEL (SC)	45	13	32	--	--
▲	S-104	39.5-40.5	SILTY SAND (SM)	--	--	--	3.8	28.4

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-104	8-9	19.00	0.575	0.242	--	2.1	83.4	14.5
●	S-104	23-24	9.50	0.040	0.001	--	2.7	32.1	65.2
△	S-104	35-36	37.50	0.285	0.021	--	26.4	26.9	46.7
▲	S-104	39.5-40.5	9.50	0.271	0.100	0.010	0.1	73.7	26.2

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: YN 7/15/2011
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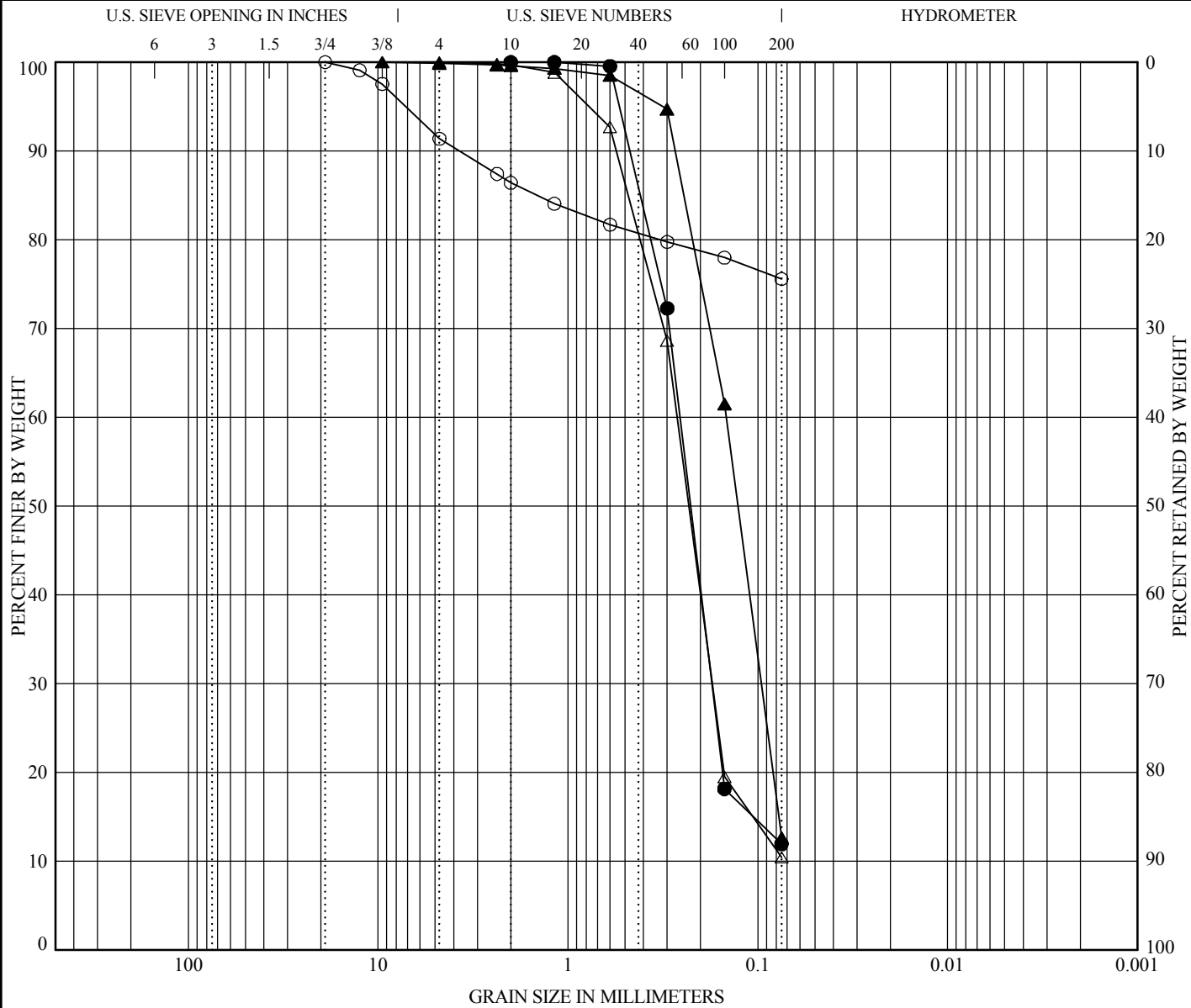
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION			LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-104	44.5-45	SANDY SILTY CLAY (CL-ML)			--	--	--	--	--
●	S-104	54.5-55.5	POORLY GRADED SAND with SILT (SP-SM)			--	--	--	2.0	4.2
△	S-104	67-68	POORLY GRADED SAND with SILT (SP-SM)			--	--	--	1.6	3.7
▲	S-104	77-78	SILTY SAND (SM)			--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-104	44.5-45	19.00	--	--	--	8.6	15.8	75.6
●	S-104	54.5-55.5	2.00	0.256	0.175	--	0.0	88.1	11.9
△	S-104	67-68	4.75	0.266	0.174	--	0.0	89.6	10.4
▲	S-104	77-78	9.50	0.147	0.096	--	0.1	87.2	12.7

Laboratory Test Method: ASTM D 422

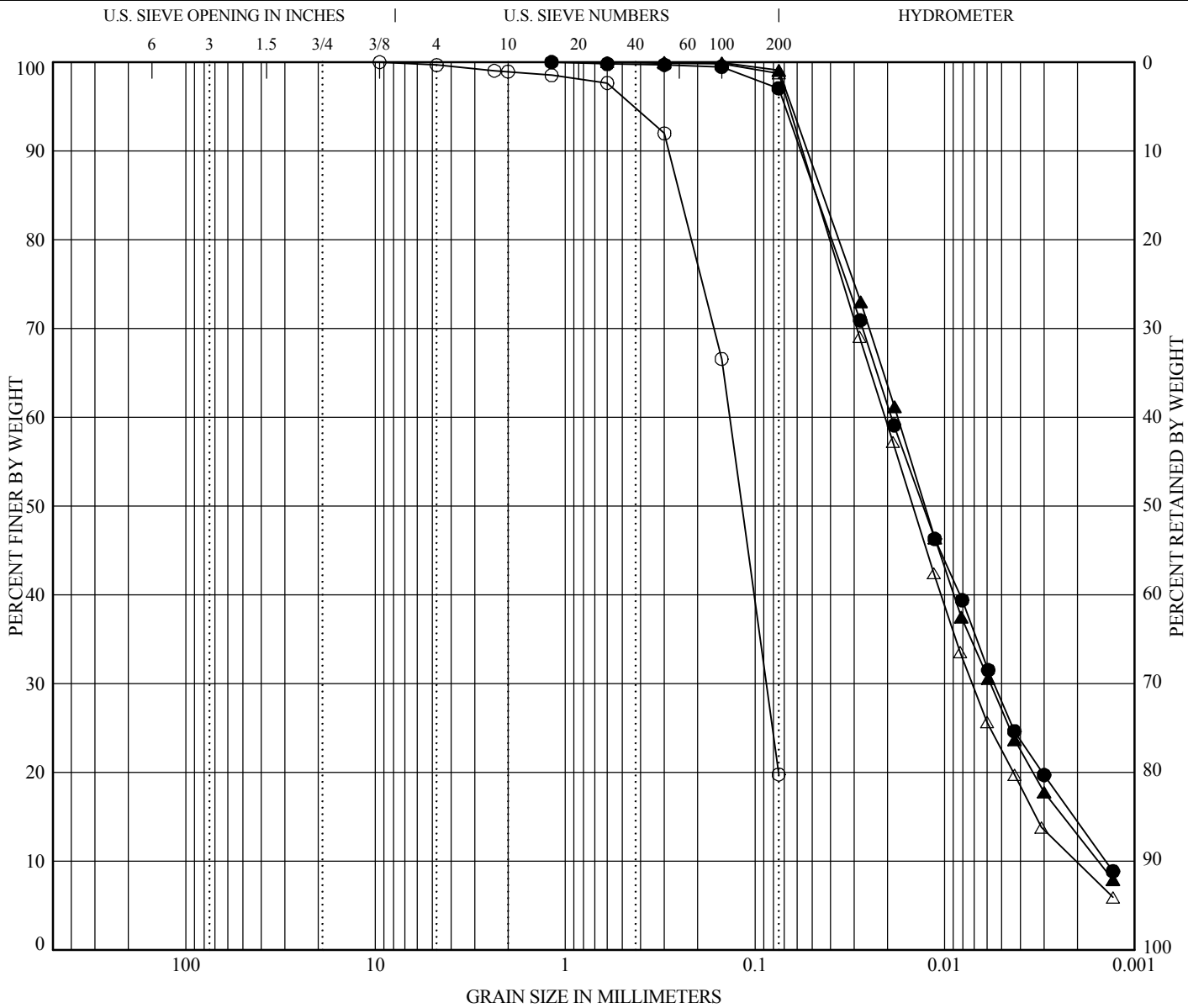
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.188



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-104	82-83	SILTY SAND (SM)	--	--	--	--	--
●	S-104	86-87	CLAYEY SILTSTONE	39	25	14	1.1	13.5
△	S-104	92-93	CLAYEY SILTSTONE	45	25	20	1.2	10.1
▲	S-104	106.2-107.2	CLAYEY SILTSTONE	--	--	--	1.2	11.4

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-104	82-83	9.50	0.136	0.087	--	0.3	79.9	19.8
●	S-104	86-87	1.18	0.019	0.006	0.001	0.0	2.9	97.1
△	S-104	92-93	0.60	0.021	0.007	0.002	0.0	1.3	98.7
▲	S-104	106.2-107.2	0.30	0.018	0.006	0.002	0.0	0.9	99.1

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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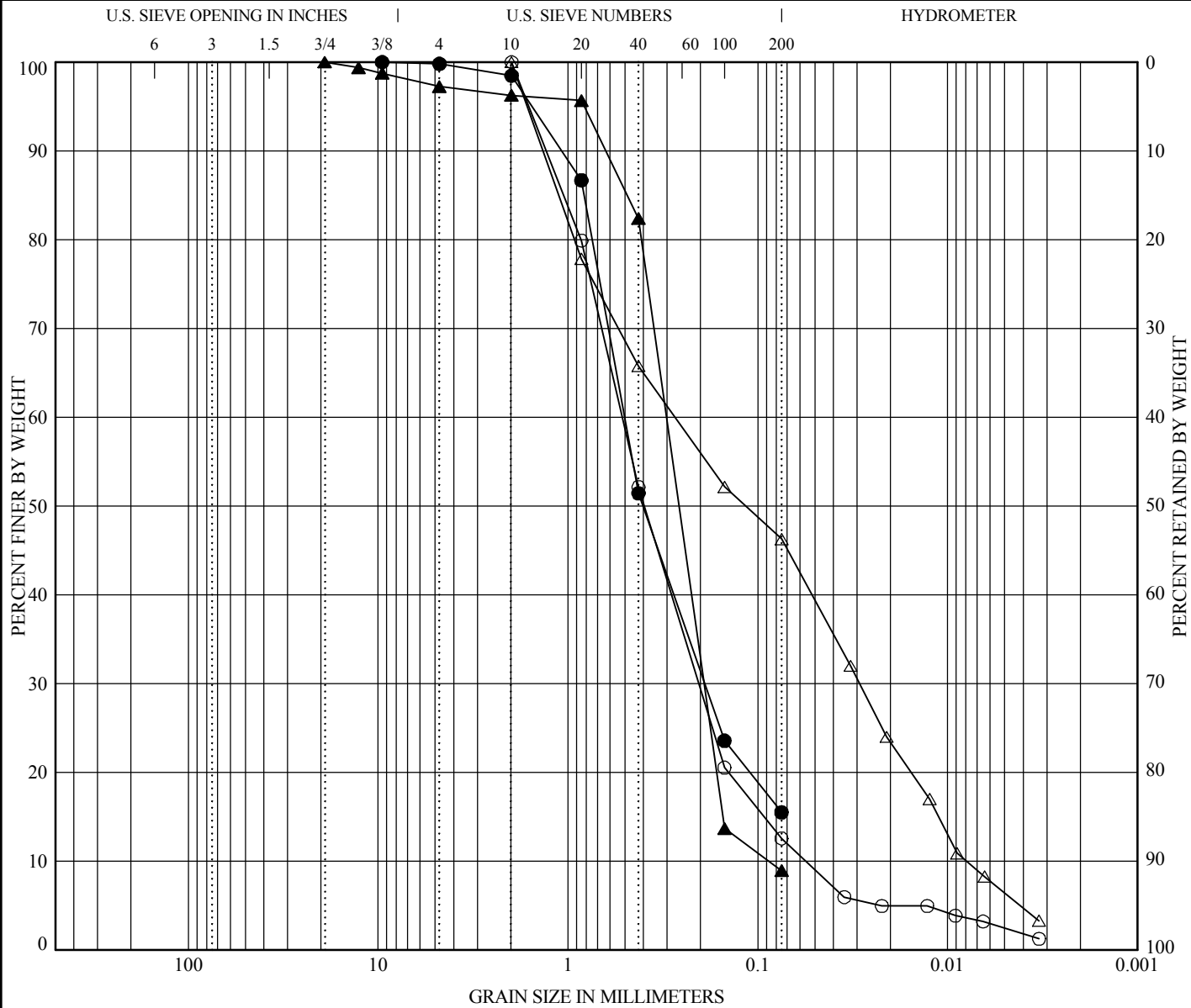
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Figure: F-6.189

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-105	11-12	SILTY SAND (SM)	--	--	--	1.5	9.3
●	S-105	17-18	SILTY SAND (SM)	--	--	--	--	--
△	S-105	26-27	SILTY SAND (SM)	NP	NP	NP	0.4	34.3
▲	S-105	32-33	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.4	3.5

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-105	11-12	1.98	0.517	0.205	0.056	0.0	87.4	12.6
●	S-105	17-18	9.52	0.503	0.191	--	0.2	84.3	15.5
△	S-105	26-27	1.98	0.273	0.029	0.008	0.0	53.7	46.3
▲	S-105	32-33	19.10	0.303	0.192	0.088	2.7	88.3	8.9

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

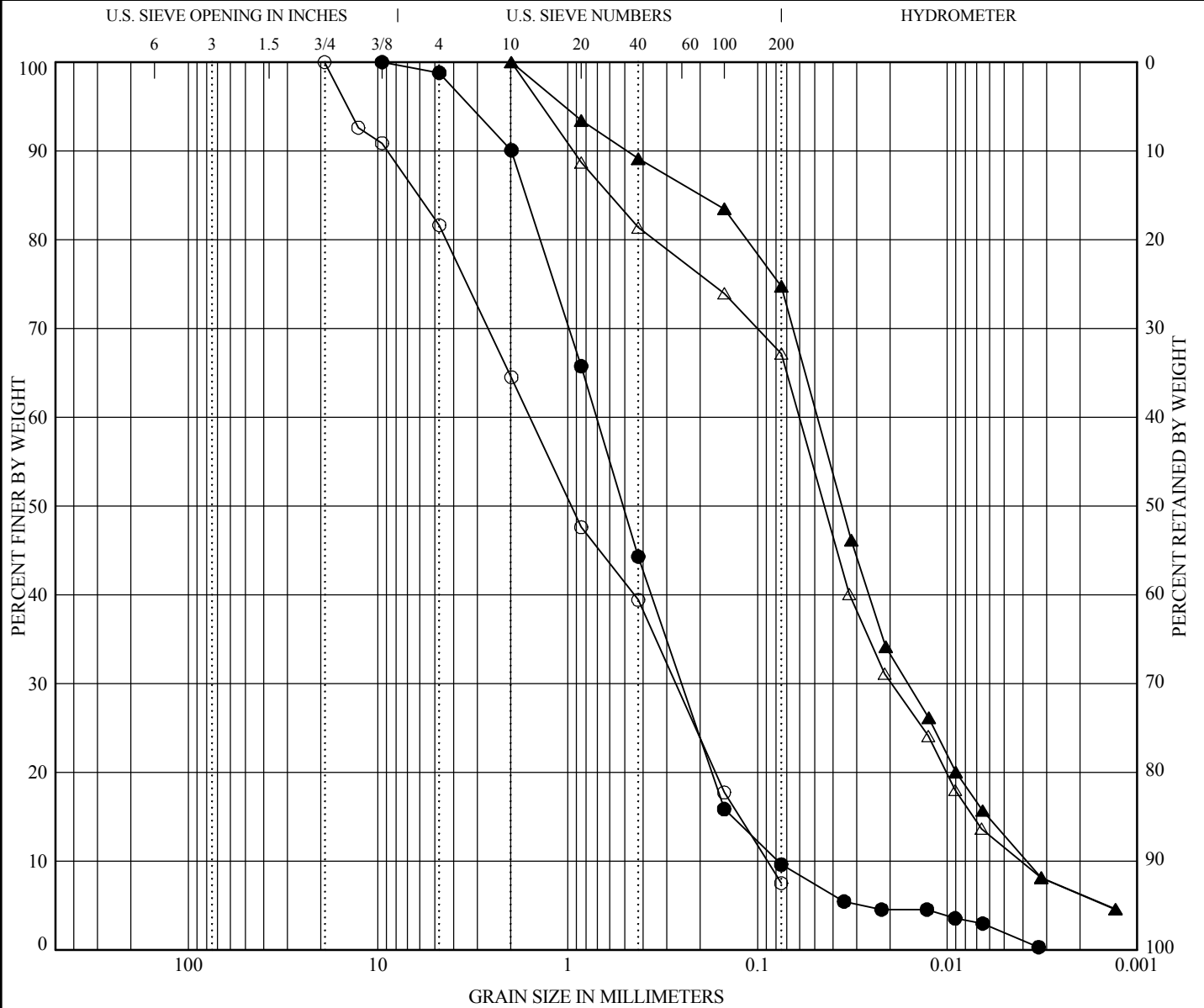
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 Figure: F-6.190

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-105	52-53	POORLY GRADED SAND with SILT & GRAVEL (SP-SM)	--	--	--	0.5	17.8
●	S-105	57-58	WELL GRADED SAND with SILT (SW-SM)	--	--	--	1.1	9.0
△	S-105	72-73	SANDY SILTSTONE	NP	NP	NP	1.6	14.7
▲	S-105	82-83	SANDY SILTSTONE	NP	NP	NP	1.4	12.7

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-105	52-53	19.10	1.580	0.270	0.089	18.4	74.1	7.5
●	S-105	57-58	9.52	0.706	0.252	0.078	1.2	89.2	9.6
△	S-105	72-73	1.98	0.060	0.020	0.004	0.0	32.8	67.2
▲	S-105	82-83	1.98	0.048	0.016	0.004	0.0	25.2	74.8

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

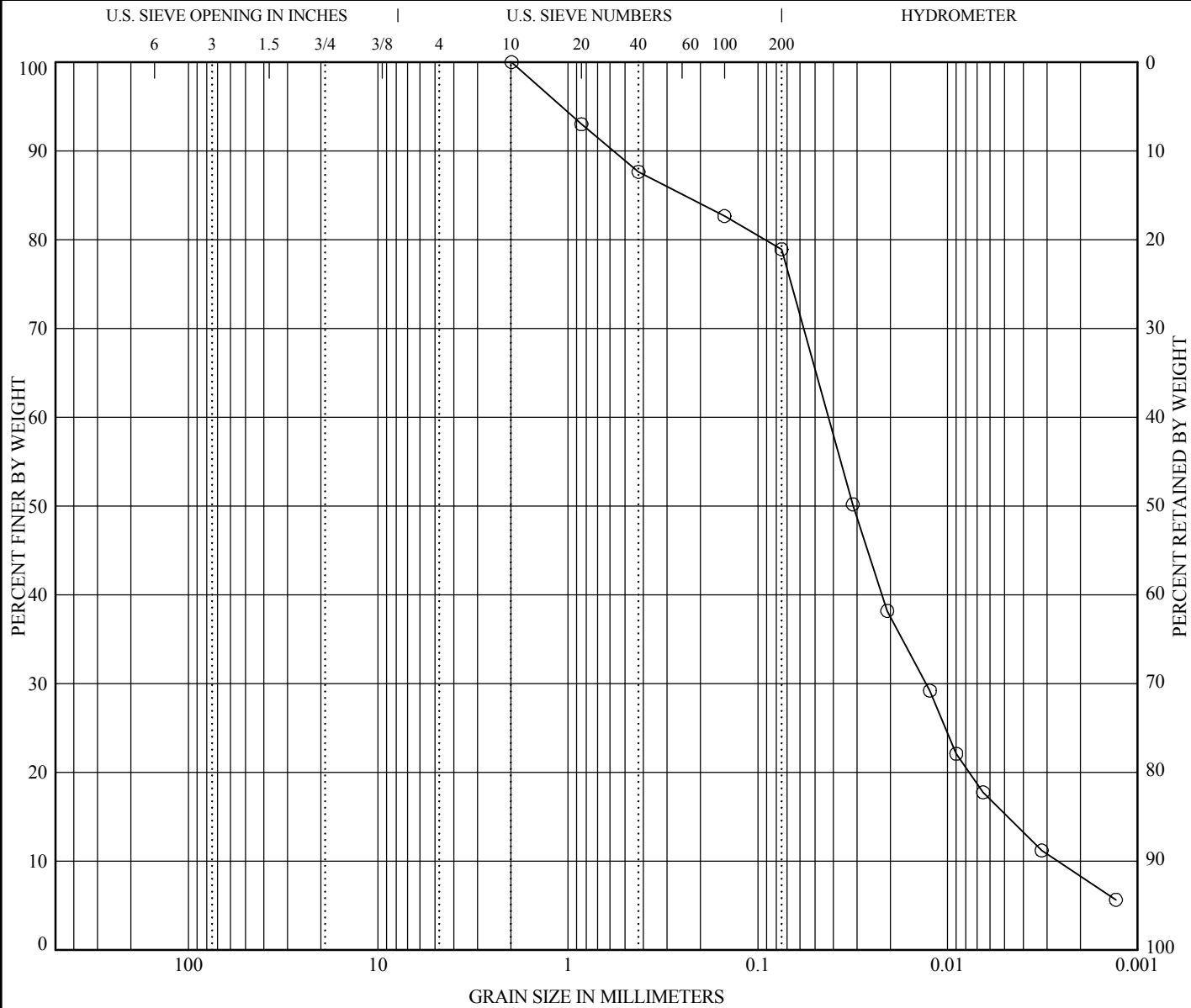
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 Figure: F-6.191

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-105 96-97	SANDY SILTSTONE	NP	NP	NP	1.5	16.1

SYMBOL	BORING DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-105 96-97	1.98	0.042	0.013	0.003	0.0	21.1	78.9

Laboratory Test Method: ASTM D 422

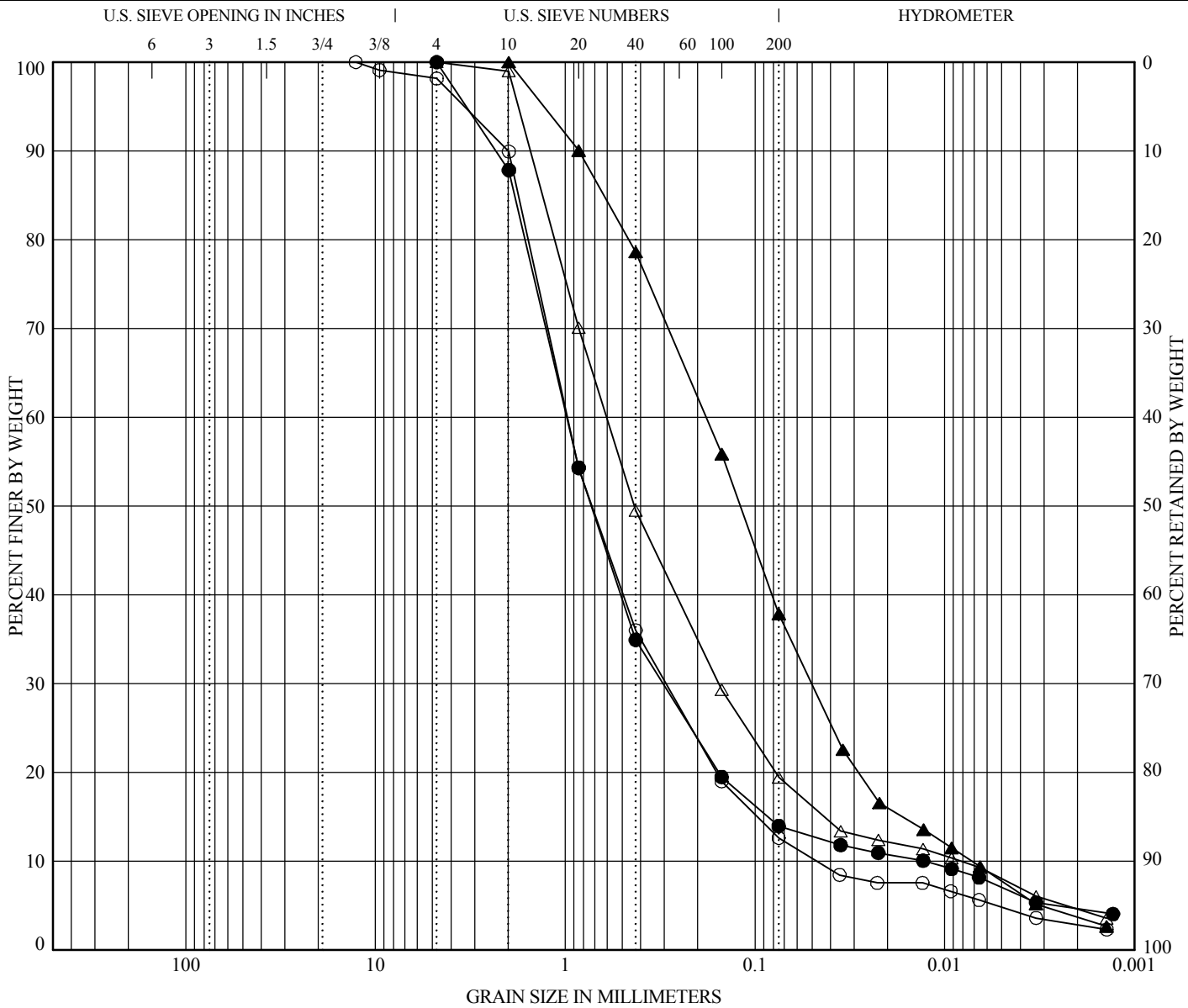
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: WL 9/14/2011
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PARTICLE SIZE DISTRIBUTION
 Project No.: 4953-10-1561
 Figure: F-6.192



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-106	18-19	SILTY SAND (SM)	NP	NP	NP	1.9	20.7
●	S-106	21-22	SILTY SAND (SM)	NP	NP	NP	7.4	77.0
△	S-106	26-27	SILTY SAND (SM)	NP	NP	NP	4.9	73.5
▲	S-106	36-37	SILTY SAND (SM)	NP	NP	NP	1.9	25.3

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-106	18-19	12.70	0.974	0.294	0.047	1.8	85.5	12.6
●	S-106	21-22	4.75	0.981	0.305	0.013	0.0	86.0	14.0
△	S-106	26-27	4.75	0.605	0.156	0.008	0.0	80.6	19.4
▲	S-106	36-37	1.98	0.181	0.050	0.007	0.0	62.2	37.8

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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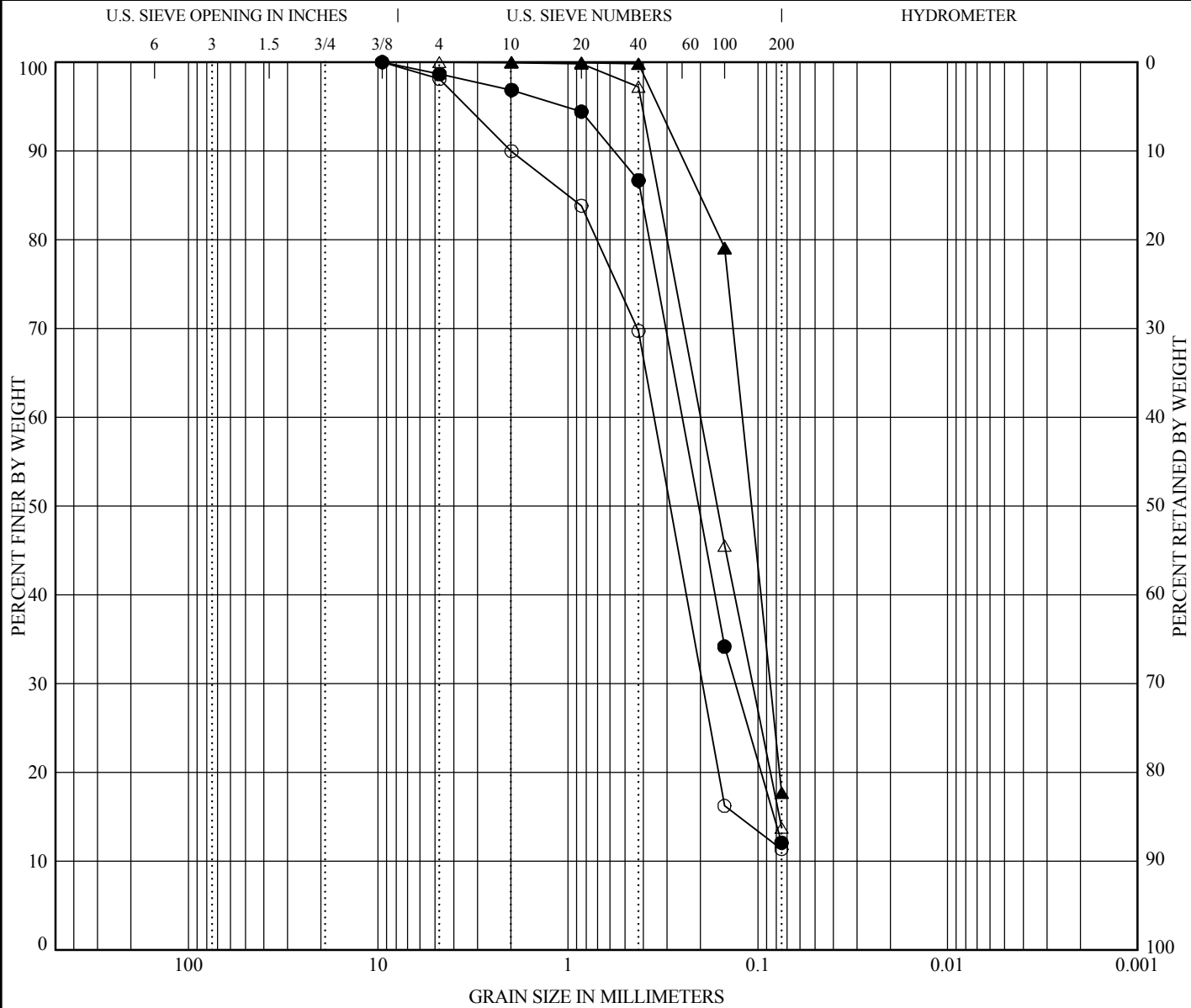
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Figure: F-6.193

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-106	42-43	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.8	5.7
●	S-106	51-52	SILTY SAND (SM)	--	--	--	1.0	3.6
△	S-106	57-58	SILTY SAND (SM)	--	--	--	--	--
▲	S-106	66-67	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-106	42-43	9.52	0.352	0.196	--	1.9	86.8	11.4
●	S-106	51-52	9.52	0.250	0.132	--	1.4	86.6	12.1
△	S-106	57-58	4.75	0.201	0.107	--	0.0	86.2	13.8
▲	S-106	66-67	1.98	0.121	0.086	--	0.0	82.3	17.7

Laboratory Test Method: ASTM D 422

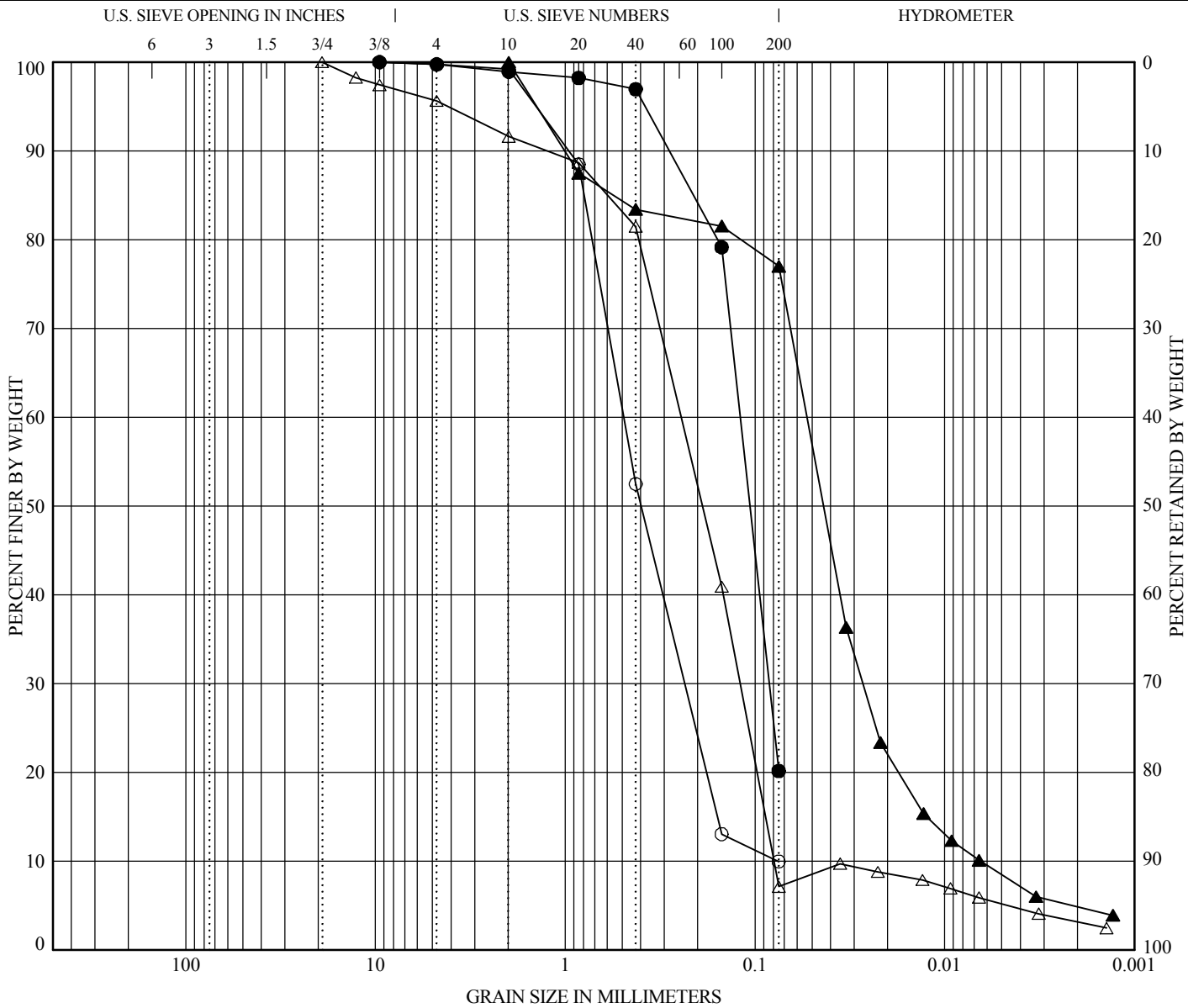
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.194



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-106	71.5-72.5	WELL GRADED SAND with SILT (SW-SM)	--	--	--	1.5	6.5
●	S-106	81-82	SILTY SAND (SM)	--	--	--	--	--
△	S-106	106-107	POORLY GRADED SAND with SILT (SP-SM)	NP	NP	NP	0.9	6.8
▲	S-106	117-118	SILTSTONE	NP	NP	NP	2.1	8.2

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-106	71.5-72.5	9.52	0.491	0.235	0.076	0.2	89.8	10.0
●	S-106	81-82	9.52	0.120	0.084	--	0.3	79.6	20.2
△	S-106	106-107	19.10	0.245	0.091	0.036	4.4	88.5	7.1
▲	S-106	117-118	1.98	0.053	0.027	0.006	0.0	23.0	77.0

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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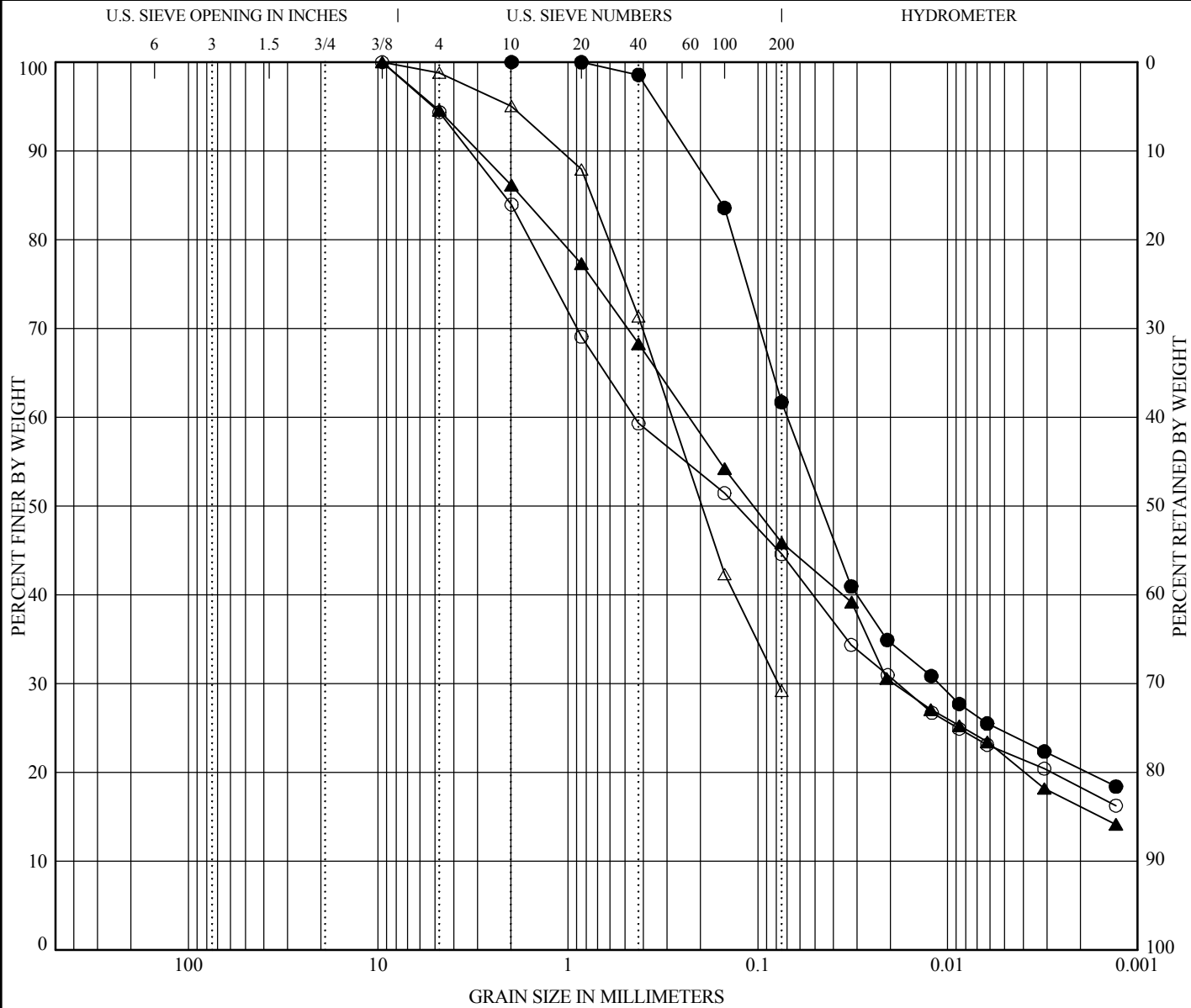
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Figure: F-6.195

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-107	33.5-34.5	CLAYEY SAND (SC)	46	24	22	--	--
●	S-107	42-43	SANDY LEAN CLAY (CL)	33	19	14	--	--
△	S-107	46-47	SILTY SAND (SM)	--	--	--	--	--
▲	S-107	48-49	CLAYEY SAND (SC)	45	23	22	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-107	33.5-34.5	9.52	0.446	0.018	--	5.6	49.8	44.6
●	S-107	42-43	1.98	0.070	0.011	--	0.0	38.3	61.7
△	S-107	46-47	9.52	0.283	0.078	--	1.2	69.6	29.2
▲	S-107	48-49	9.52	0.230	0.019	--	5.4	48.7	45.9

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

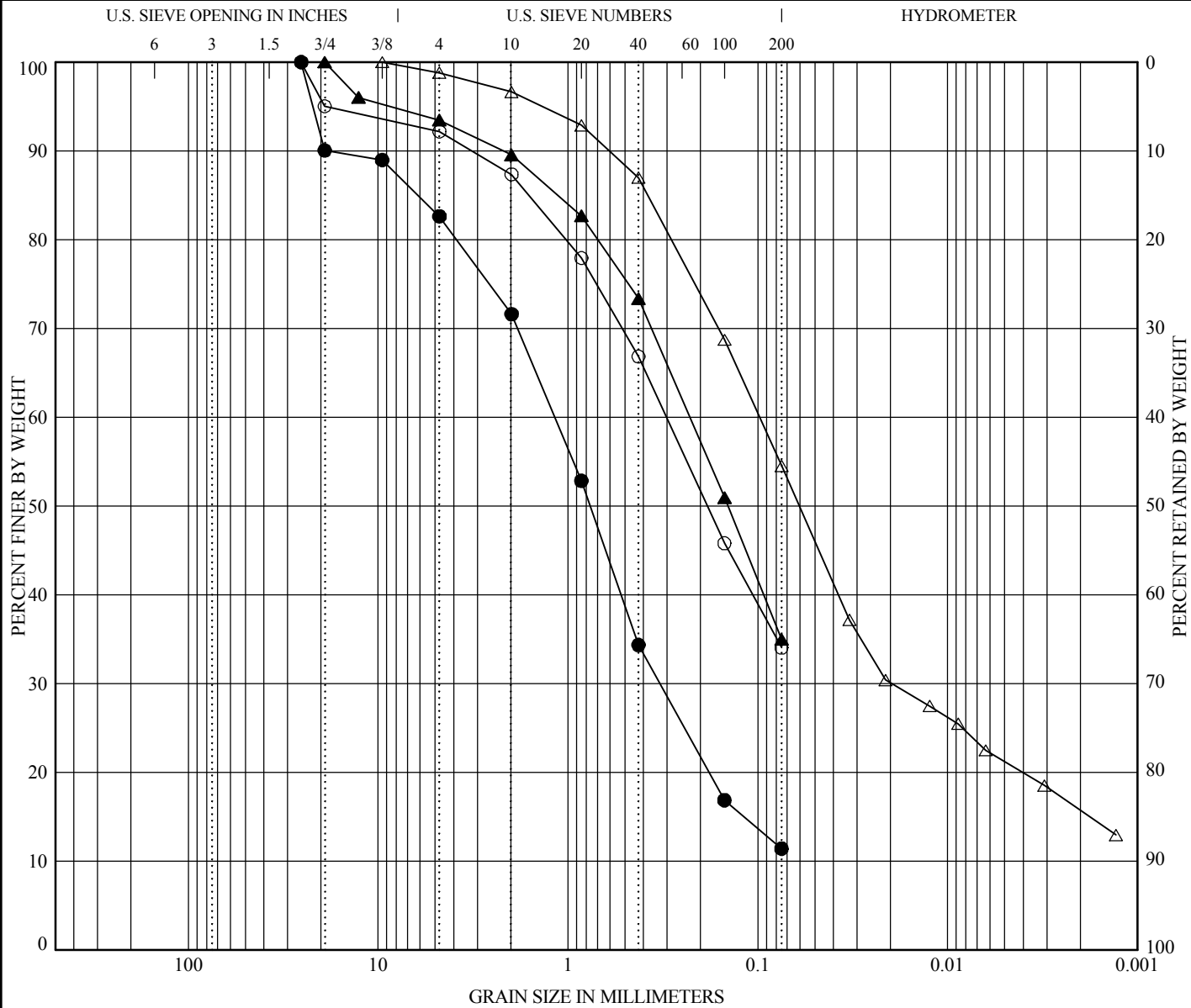
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-107	52-53	SILTY SAND (SM)	--	--	--	--	--
●	S-107	57-57.5	WELL GRADED SAND with SILT and GRAVEL (SW-SM)	--	--	--	1.5	18.7
△	S-107	59-60	SANDY LEAN CLAY (CL)	43	26	17	--	--
▲	S-107	64-65	SILTY, CLAYEY SAND (SC-SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-107	52-53	25.40	0.303	--	--	7.8	58.1	34.0
●	S-107	57-57.5	25.40	1.174	0.328	--	17.4	71.2	11.4
△	S-107	59-60	9.52	0.098	0.020	--	1.2	44.3	54.5
▲	S-107	64-65	19.10	0.228	--	--	6.5	58.5	35.0

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

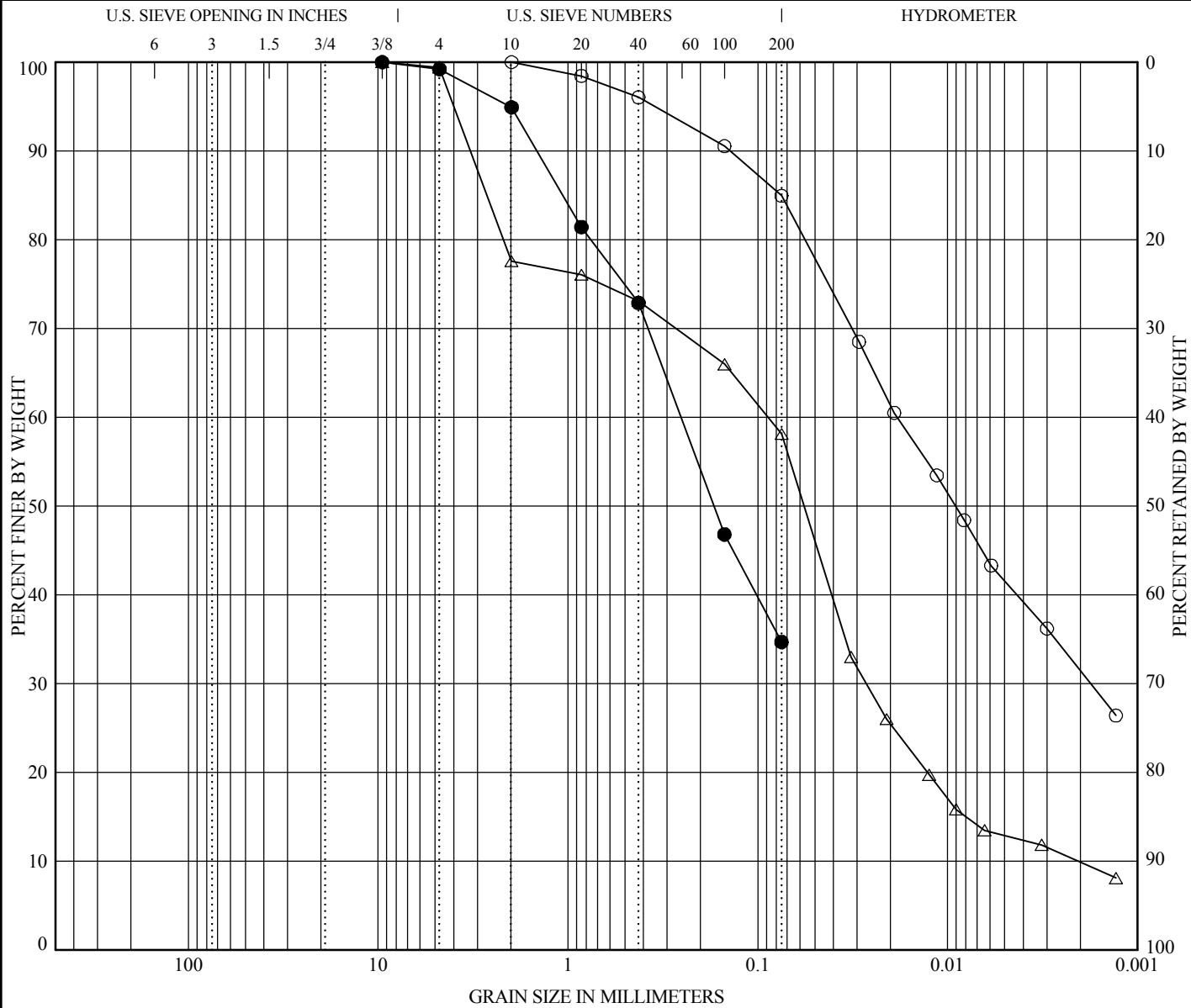
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 Figure: F-6.197

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-107	72-73	ELASTIC SILT with SAND (MH)	63	33	30	--	--
●	S-107	76.1-77	SILTY SAND (SM)	--	--	--	--	--
△	S-107	85-86	SANDY LEAN CLAY (CL)	35	23	12	4.0	43.1

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-107	72-73	1.98	0.018	0.002	--	0.0	15.1	84.9
●	S-107	76.1-77	9.52	0.254	--	--	0.8	64.5	34.7
△	S-107	85-86	9.52	0.088	0.027	0.002	0.6	41.3	58.1

Laboratory Test Method: ASTM D 422

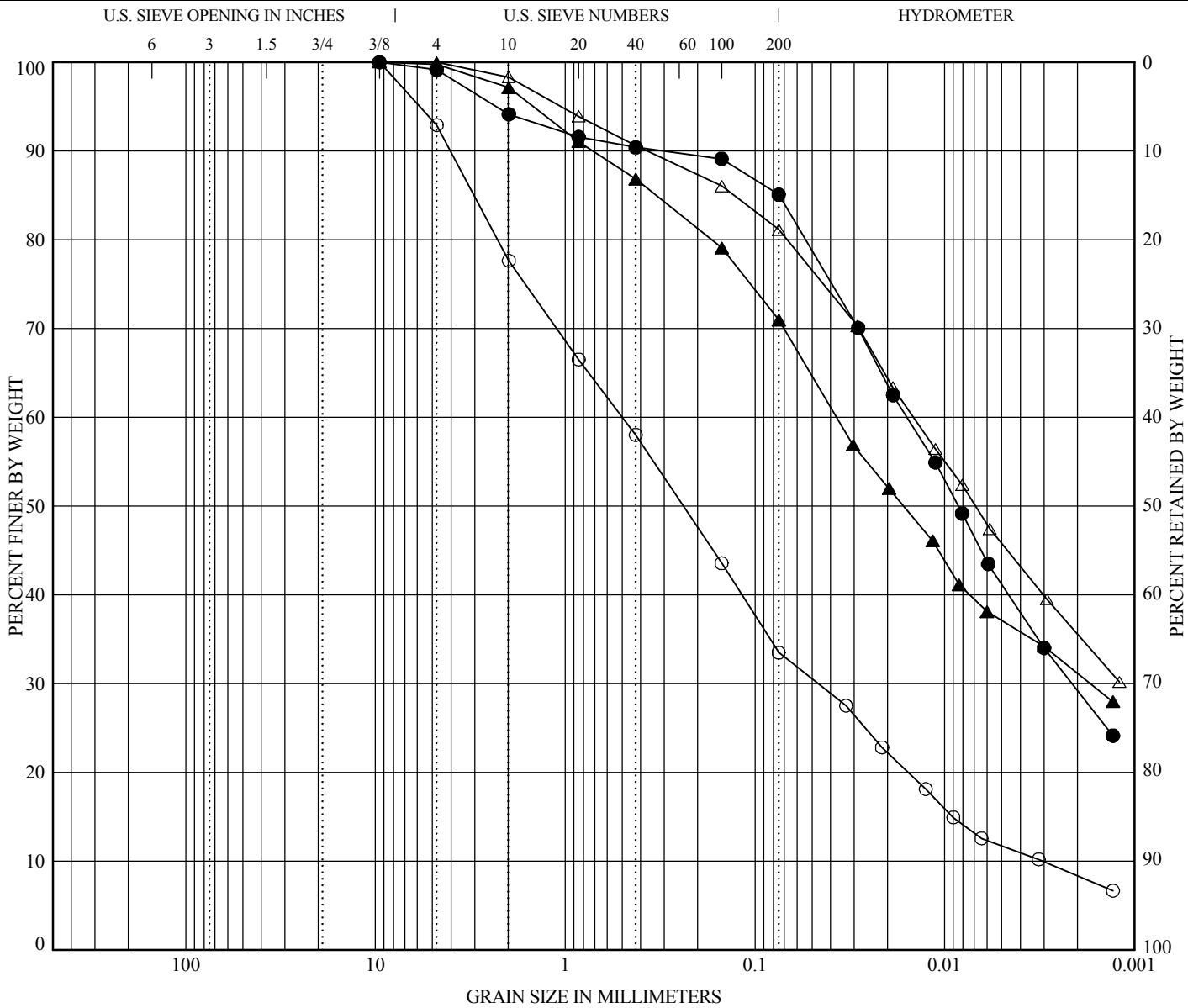
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.198



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-108	52.5-53.5	SILTY SAND (SM)	--	--	--	1.4	164.5
●	S-108	63-64	ELASTIC SILT (MH)	55	33	22	--	--
△	S-108	72.5-73.5	ELASTIC SILT with SAND (MH)	63	35	28	--	--
▲	S-108	78-79	FAT CLAY with SAND (CH)	50	27	23	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-108	52.5-53.5	9.52	0.500	0.047	0.003	7.1	59.4	33.5
●	S-108	63-64	9.52	0.016	0.002	--	0.9	14.1	85.1
△	S-108	72.5-73.5	4.75	0.015	--	--	0.0	18.9	81.1
▲	S-108	78-79	9.52	0.037	0.002	--	0.2	28.8	71.0

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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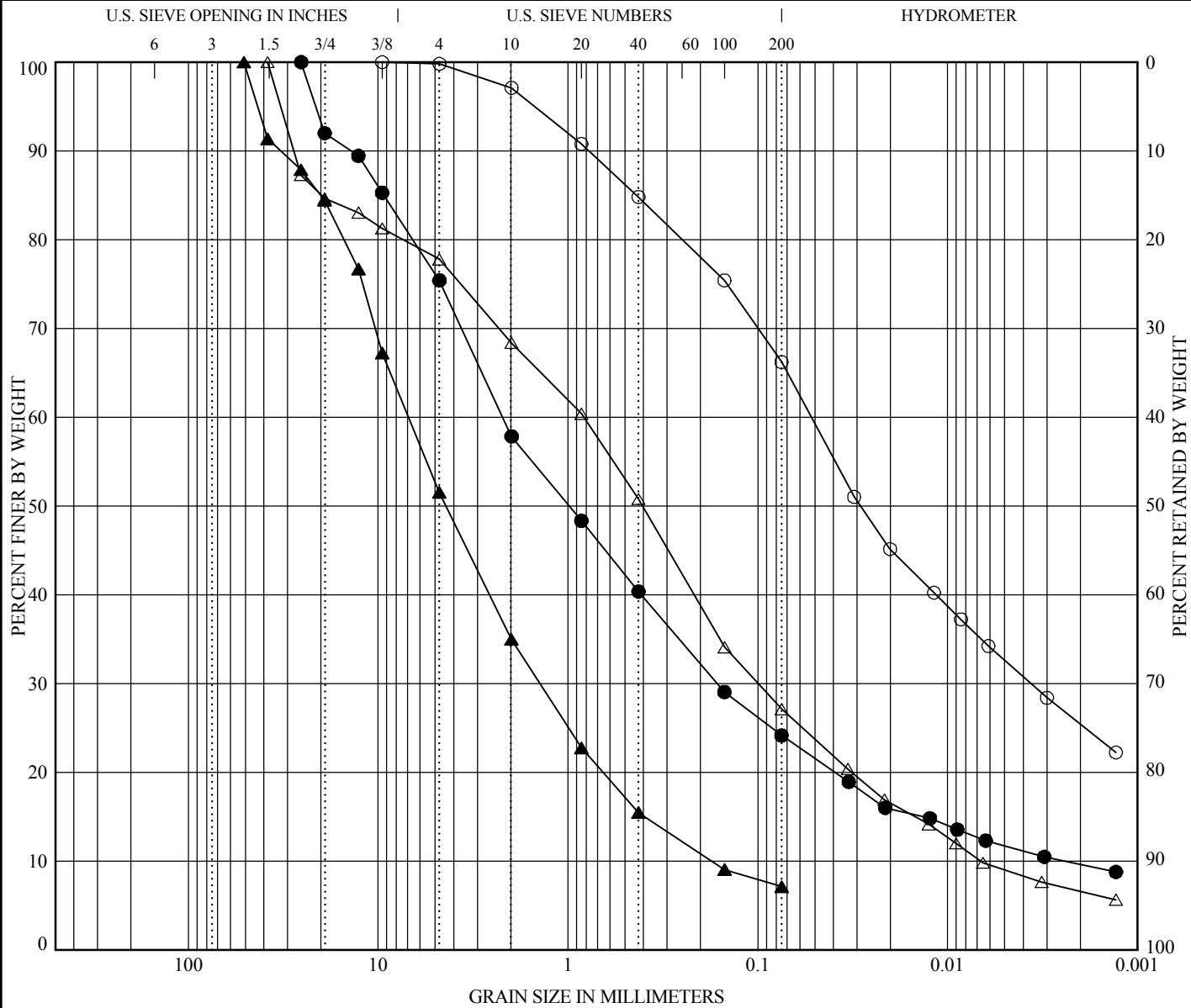
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-108	82-83	SANDY LEAN CLAY (CL)	47	24	23	--	--
●	S-108	86-87	CLAYEY SAND with GRAVEL (SC)	--	--	--	5.0	913.0
△	S-108	91-92	SILTY SAND with GRAVEL (SM)	NP	NP	NP	1.8	123.6
▲	S-108	93-94	WELL GRADED GRAVEL with SILT (GW-GM)	--	--	--	1.6	39.5

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-108	82-83	9.52	0.052	0.004	--	0.2	33.6	66.2
●	S-108	86-87	25.40	2.204	0.164	0.002	24.6	51.3	24.2
△	S-108	91-92	38.10	0.826	0.100	0.007	22.2	50.7	27.1
▲	S-108	93-94	50.80	6.912	1.404	0.175	48.5	44.4	7.1

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

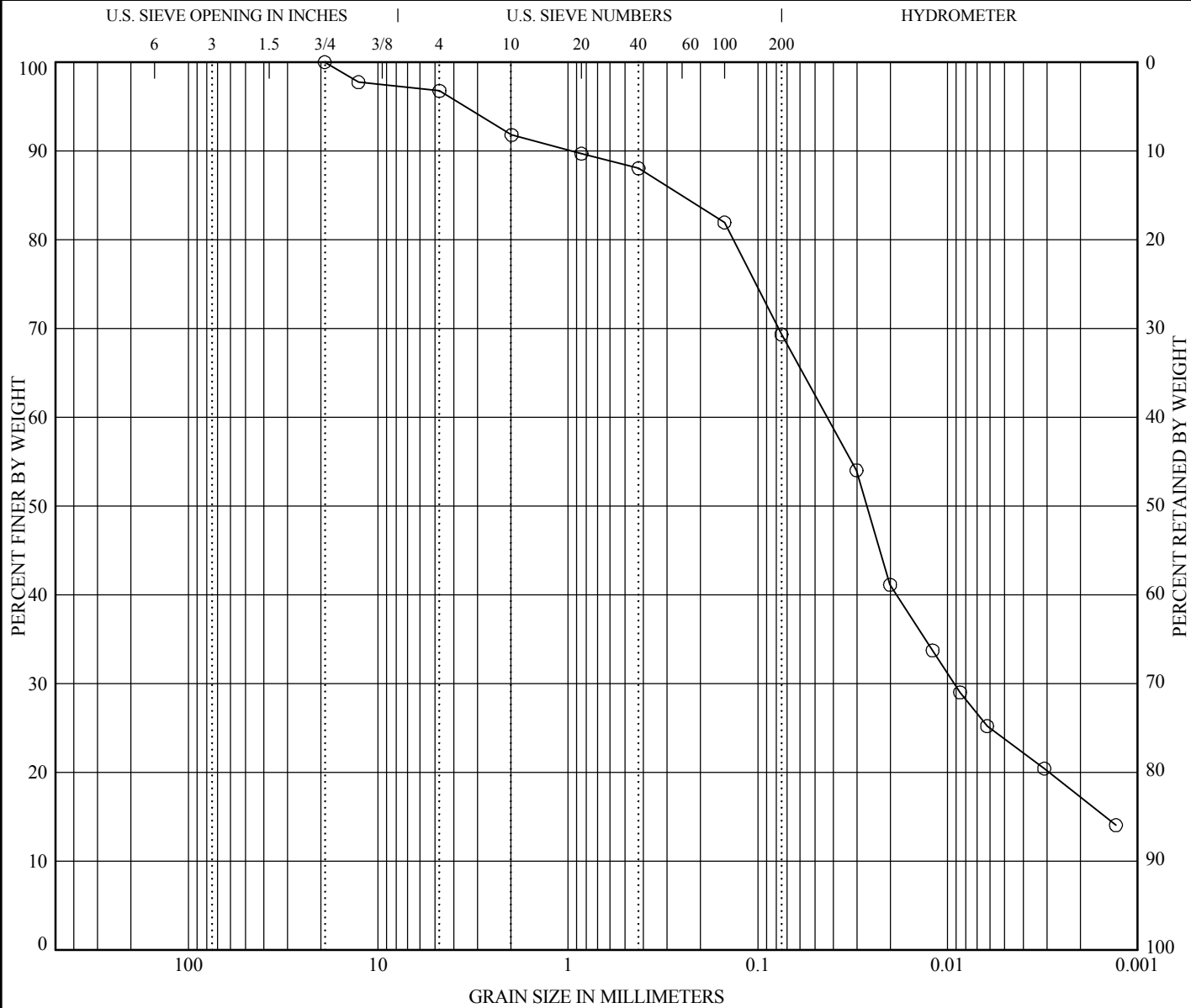
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-108	97-98	SANDY SILT (ML)	NP	NP	NP	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-108	97-98	19.10	0.043	0.009	--	3.2	27.4	69.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

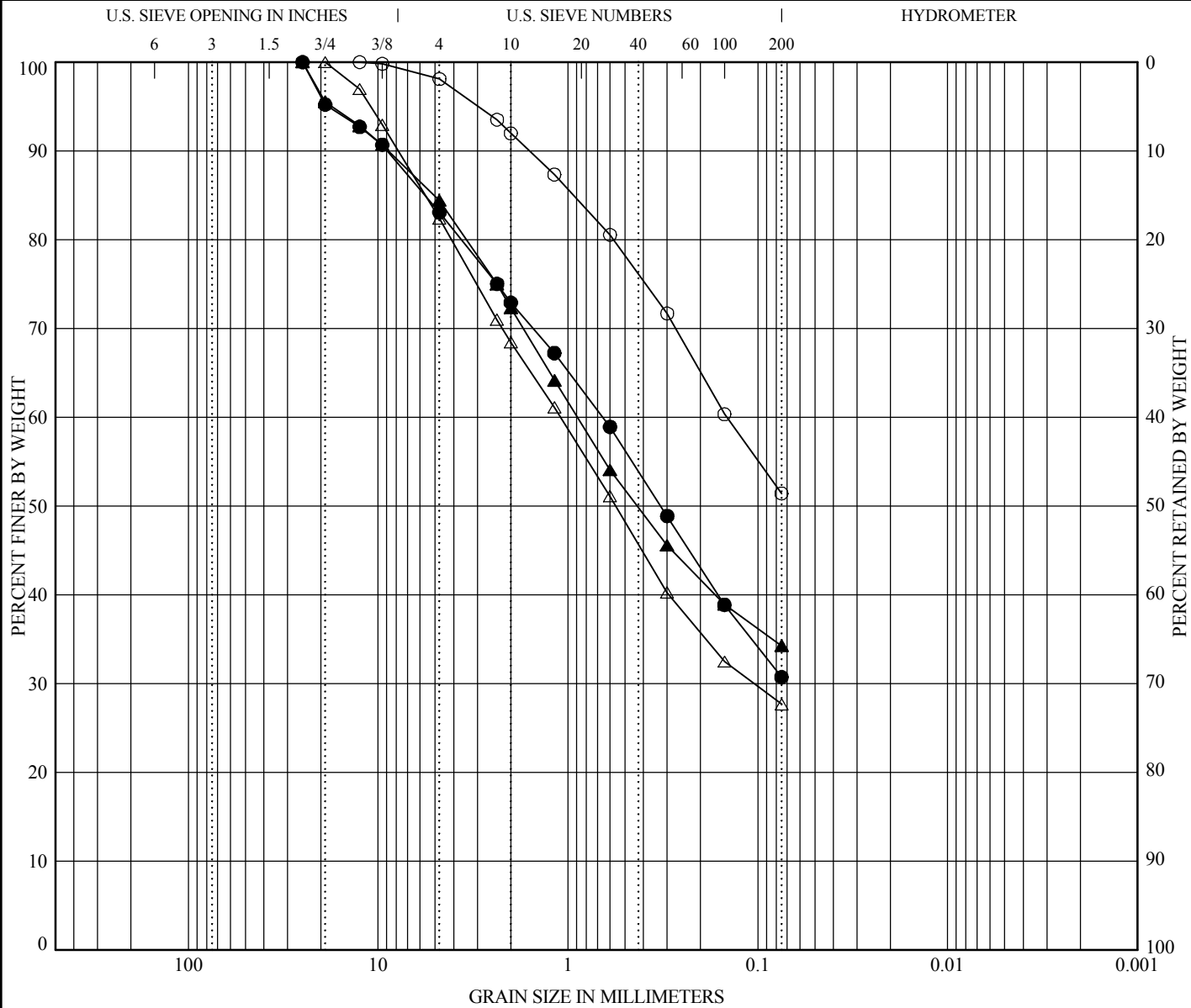
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 Figure: F-6.201

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-109	22-23	SANDY LEAN CLAY (CL)	31	13	18	--	--
●	S-109	33-34	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
△	S-109	41-42	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
▲	S-109	45-46	SILTY SAND with GRAVEL (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-109	22-23	12.50	0.146	--	--	1.9	46.7	51.4
●	S-109	33-34	25.00	0.655	--	--	16.9	52.3	30.7
△	S-109	41-42	19.00	1.095	0.105	--	17.6	54.7	27.7
▲	S-109	45-46	25.00	0.893	--	--	15.6	50.2	34.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

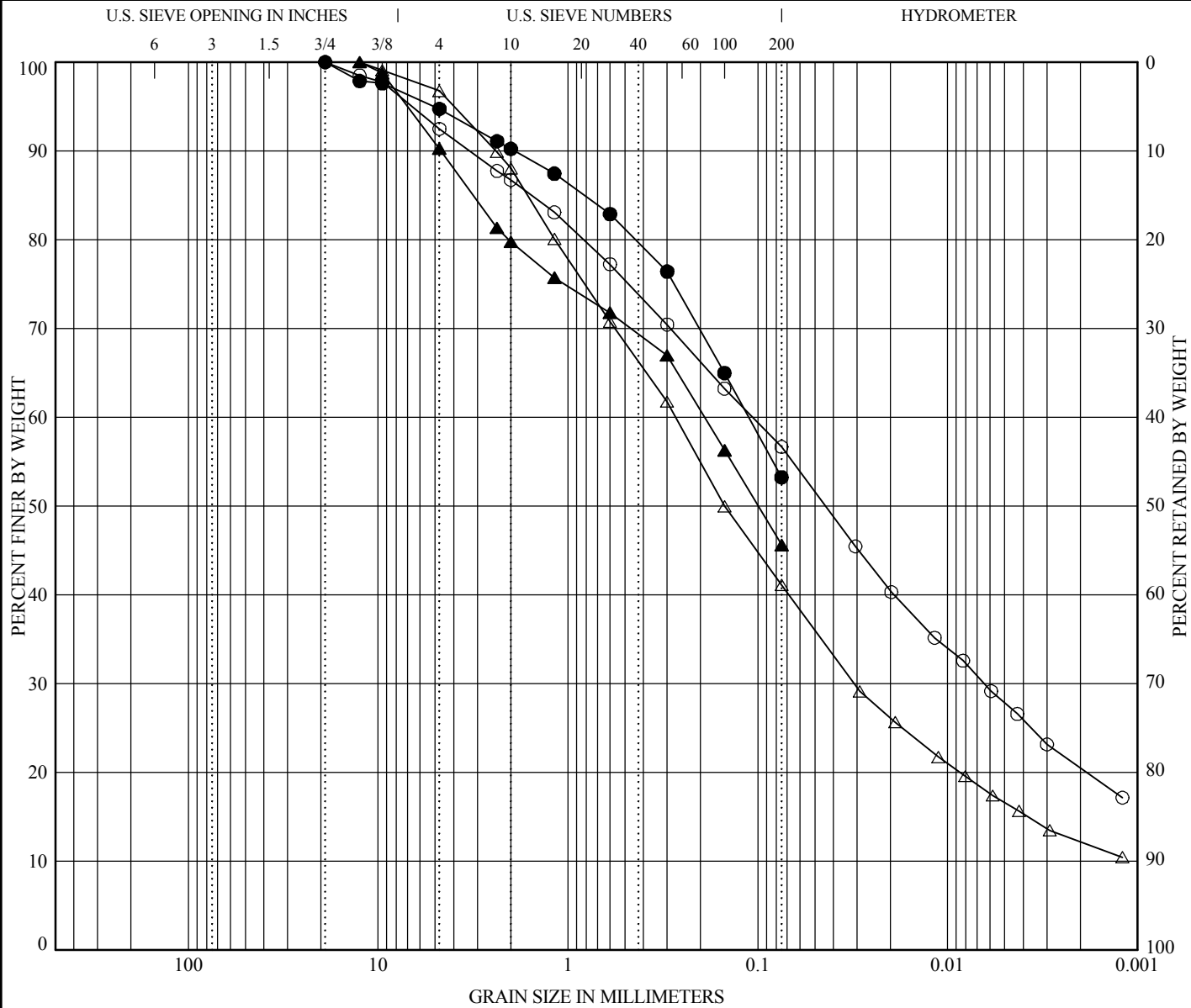
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 Figure: F-6.202

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-109	56-57	SANDY LEAN CLAY (CL)	38	14	24	--	--
●	S-109	62-63	SANDY LEAN CLAY (CL)	35	17	18	--	--
△	S-109	77-78	CLAYEY SAND (SC)	30	16	14	--	--
▲	S-109	86-87	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-109	56-57	19.00	0.107	0.006	--	7.5	35.8	56.7
●	S-109	62-63	19.00	0.112	--	--	5.3	41.5	53.2
△	S-109	77-78	12.50	0.271	0.031	--	3.2	55.6	41.1
▲	S-109	86-87	12.50	0.191	--	--	9.8	44.6	45.6

Laboratory Test Method: ASTM D 422

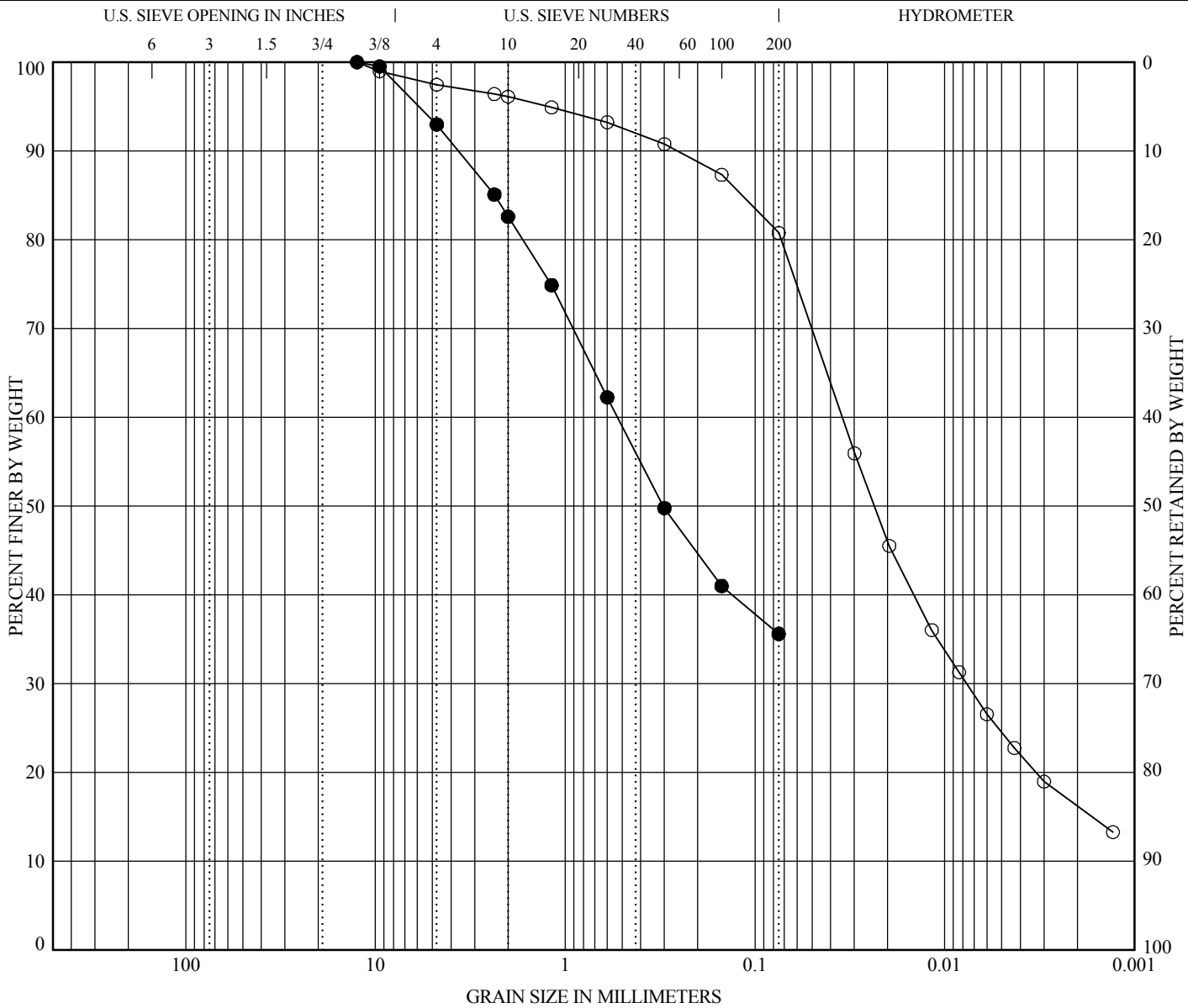
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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PARTICLE SIZE DISTRIBUTION
 Project No.: 4953-10-1561
 Figure: F-6.203



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-109	88.5-89.5	LEAN CLAY with SAND (CL)	37	21	16	--	--
●	S-109	96-97	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-109	88.5-89.5	12.50	0.035	0.008	--	2.6	16.7	80.8
●	S-109	96-97	12.50	0.530	--	--	7.0	57.4	35.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

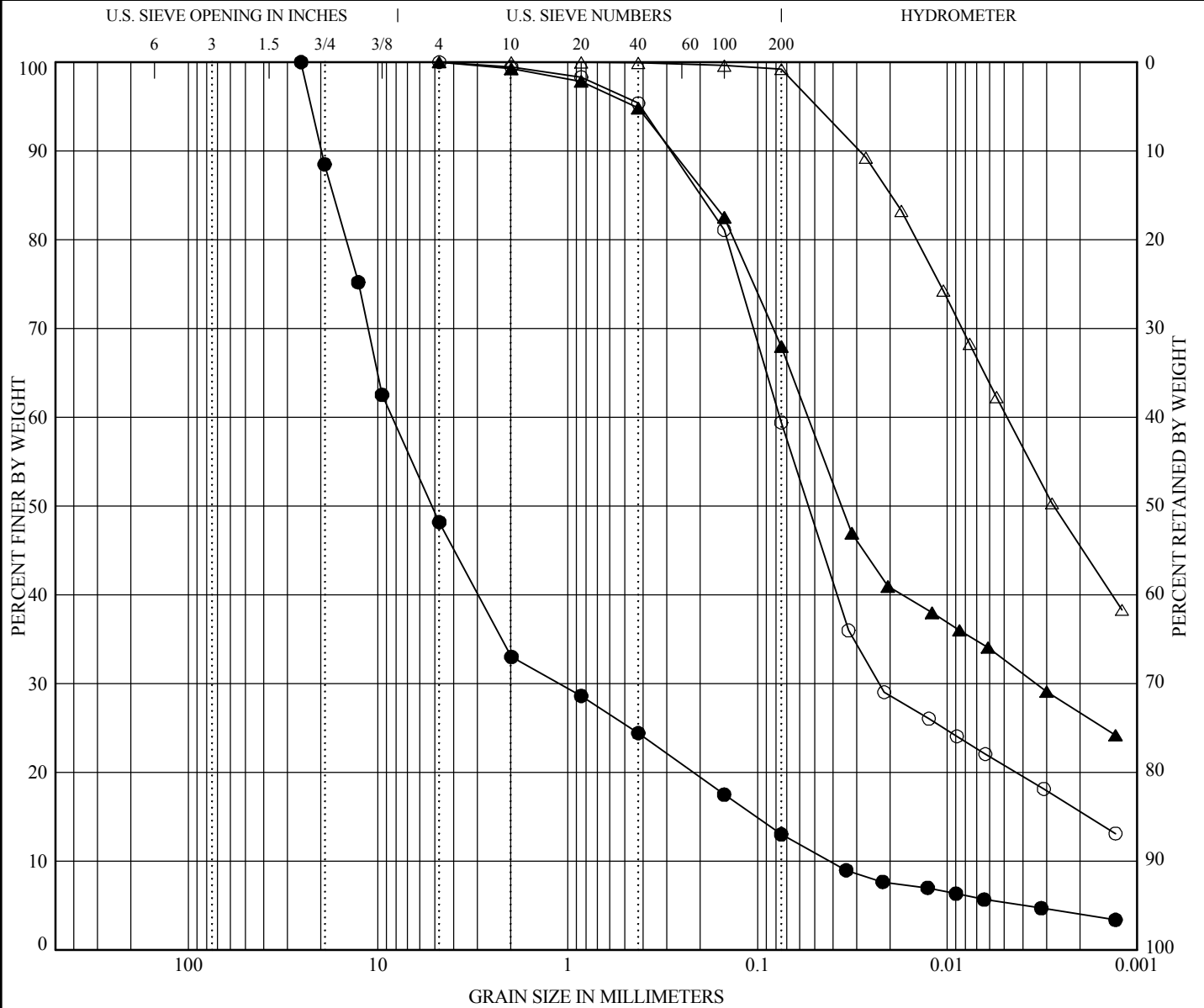
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-110	33-34	SANDY SILT (ML)	29	23	6	--	--
●	S-110	40.5-41.5	SILTY, CLAYEY GRAVEL with SAND (GC-GM)	25	21	4	3.5	202.3
△	S-110	49-50	LEAN CLAY (CL)	--	--	--	--	--
▲	S-110	60-61	SANDY LEAN CLAY (CL)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-110	33-34	4.75	0.076	0.023	--	0.0	40.6	59.4
●	S-110	40.5-41.5	25.40	8.426	1.109	0.042	51.8	35.2	13.0
△	S-110	49-50	1.98	0.005	--	--	0.0	0.8	99.2
▲	S-110	60-61	4.75	0.054	0.003	--	0.0	32.0	68.0

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

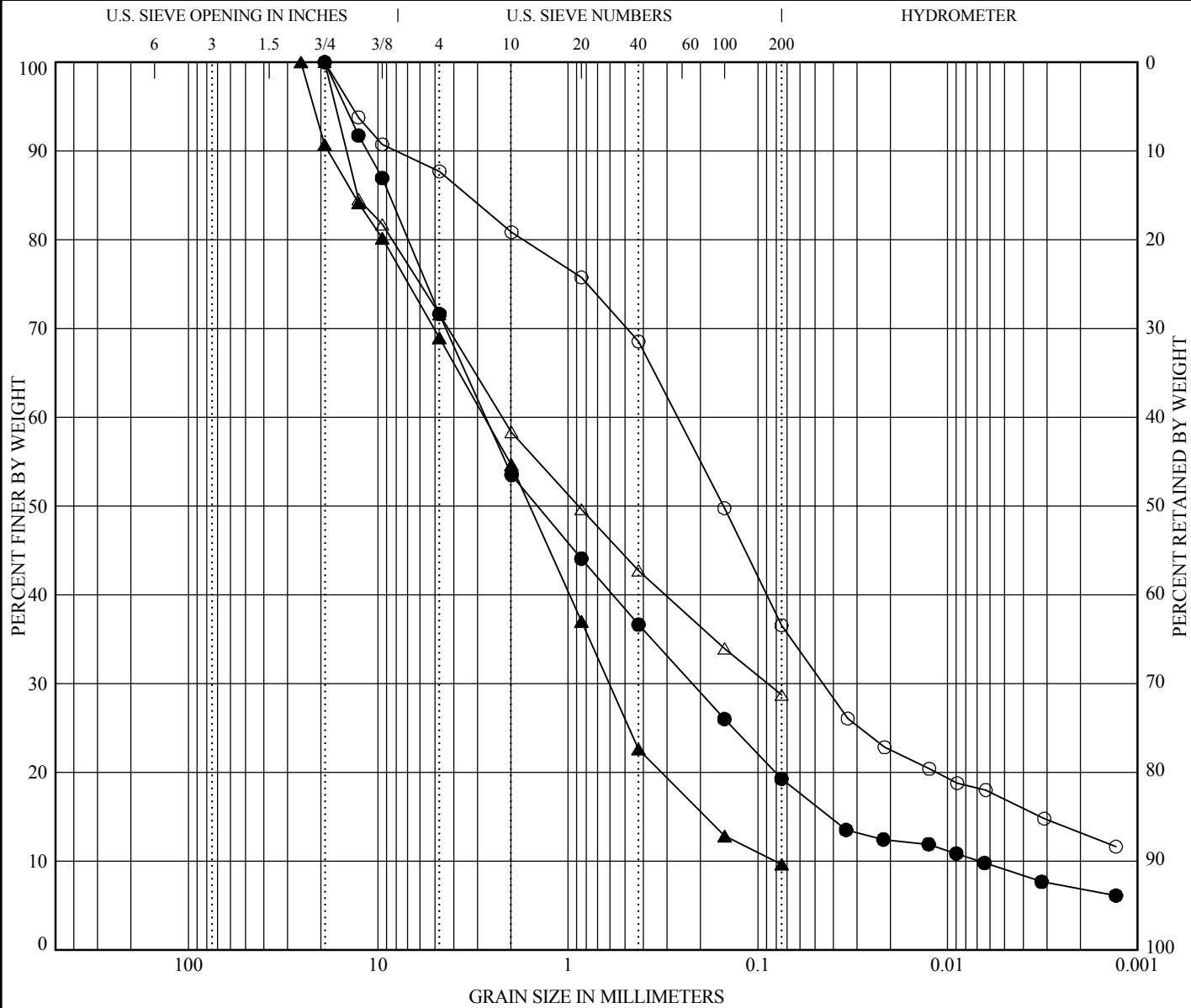
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-110	66-66.6	SILTY SAND (SM)	--	--	--	--	--
●	S-110	66.6-67	SILTY SAND with GRAVEL (SM)	32	25	7	2.7	396.1
△	S-110	71-71.8	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
▲	S-110	78-79	WELL GRADED SAND with SILT and GRAVEL (SW-SM)	--	--	--	1.6	33.9

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-110	66-66.6	19.10	0.265	0.045	--	12.3	51.1	36.6
●	S-110	66.6-67	19.10	2.710	0.222	0.007	28.4	52.3	19.3
△	S-110	71-71.8	19.10	2.210	0.089	--	28.4	42.9	28.7
▲	S-110	78-79	25.40	2.751	0.607	0.081	31.1	59.3	9.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

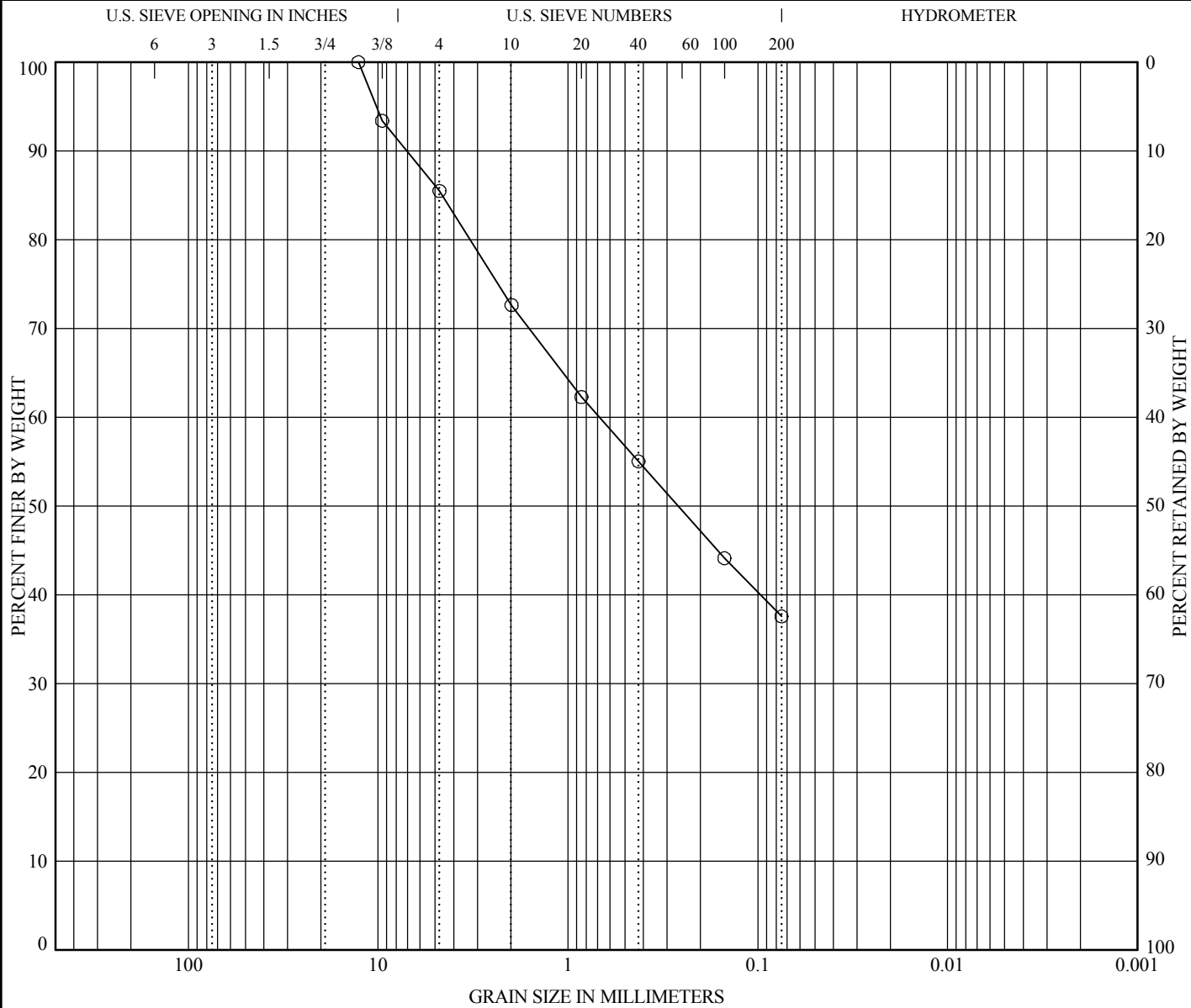
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-110	81-82	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-110	81-82	12.70	0.684	--	--	14.5	47.9	37.6

Laboratory Test Method: ASTM D 422

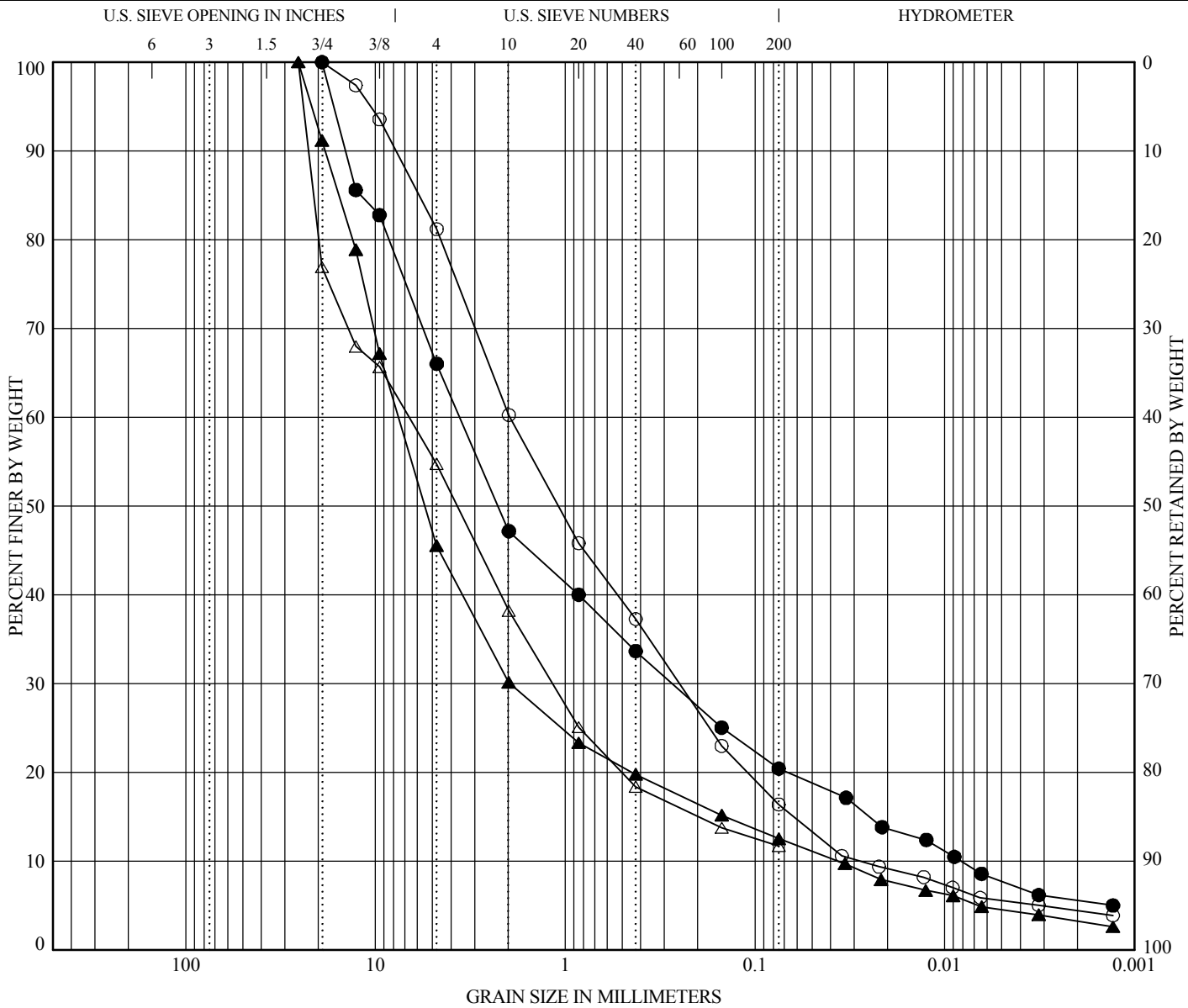
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.207



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-111	38-39	SILTY SAND with GRAVEL (SM)	--	--	--	1.1	69.6
●	S-111	41-42	SILTY SAND with GRAVEL (SM)	--	--	--	2.5	438.3
△	S-111	45-46	POORLY GRADED GRAVEL with CLAY and SAND (GP-GC)	36	19	17	4.9	157.6
▲	S-111	49-50	SILTY, CLAYEY GRAVEL with SAND (GC-GM)	--	--	--	13.8	208.4

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-111	38-39	19.10	1.951	0.250	0.028	18.8	64.8	16.4
●	S-111	41-42	19.10	3.592	0.273	0.008	34.0	45.6	20.4
△	S-111	45-46	25.40	6.635	1.166	--	45.2	43.0	11.7
▲	S-111	49-50	25.40	7.562	1.944	0.036	54.5	33.0	12.5

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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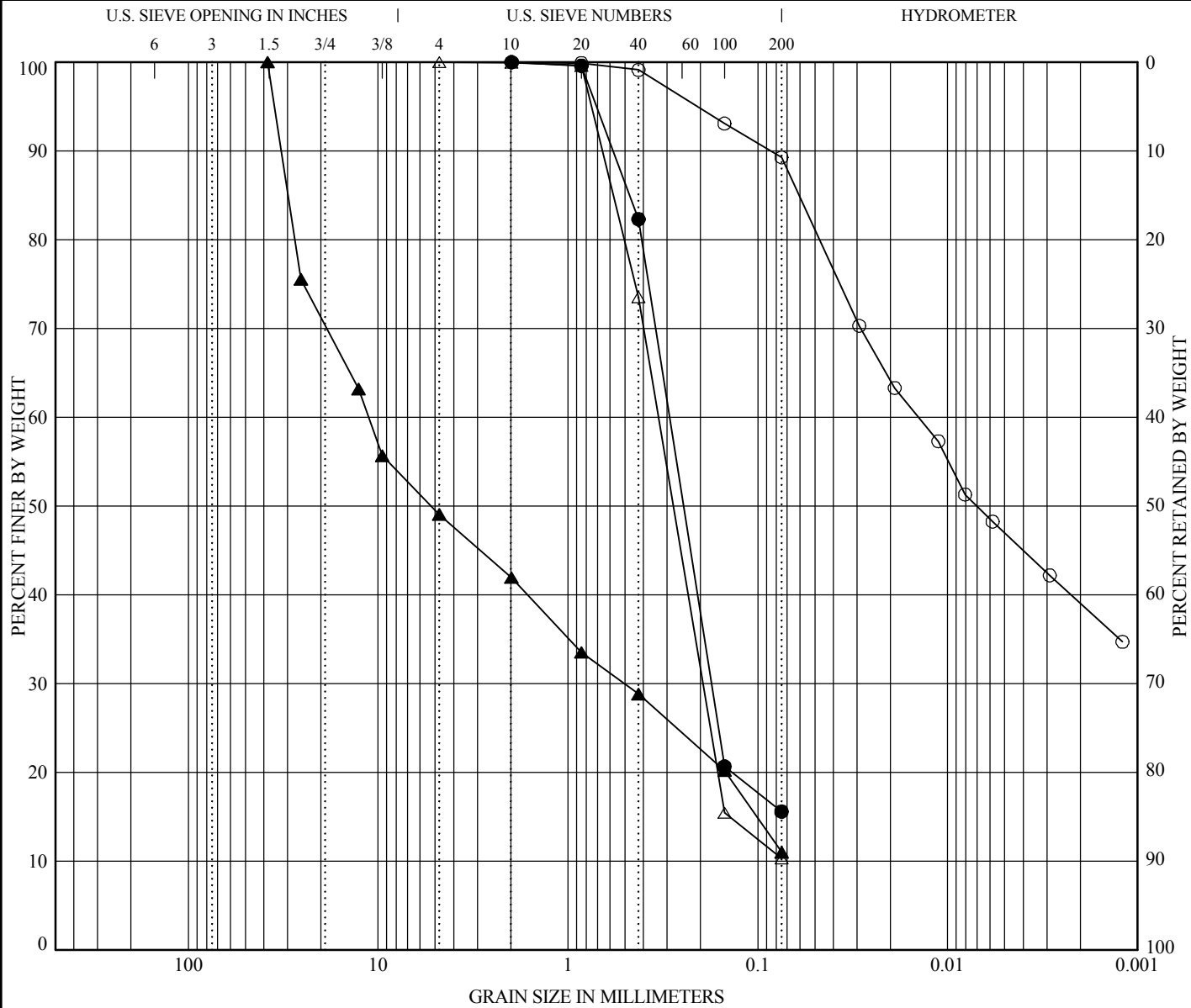
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-111	52-53	LEAN CLAY (CL)	47	26	21	--	--
●	S-111	59-60	SILTY SAND (SM)	--	--	--	--	--
△	S-111	70-71	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.6	4.6
▲	S-111	78.5-79.5	POORLY GRADED GRAVEL with SILT and SAND (GP-GM)	--	--	--	0.3	161.8

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-111	52-53	1.98	0.014	--	--	0.0	10.7	89.3
●	S-111	59-60	1.98	0.292	0.176	--	0.0	84.4	15.6
△	S-111	70-71	4.75	0.333	0.195	--	0.0	89.7	10.3
▲	S-111	78.5-79.5	38.10	11.238	0.505	--	51.0	38.0	11.0

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

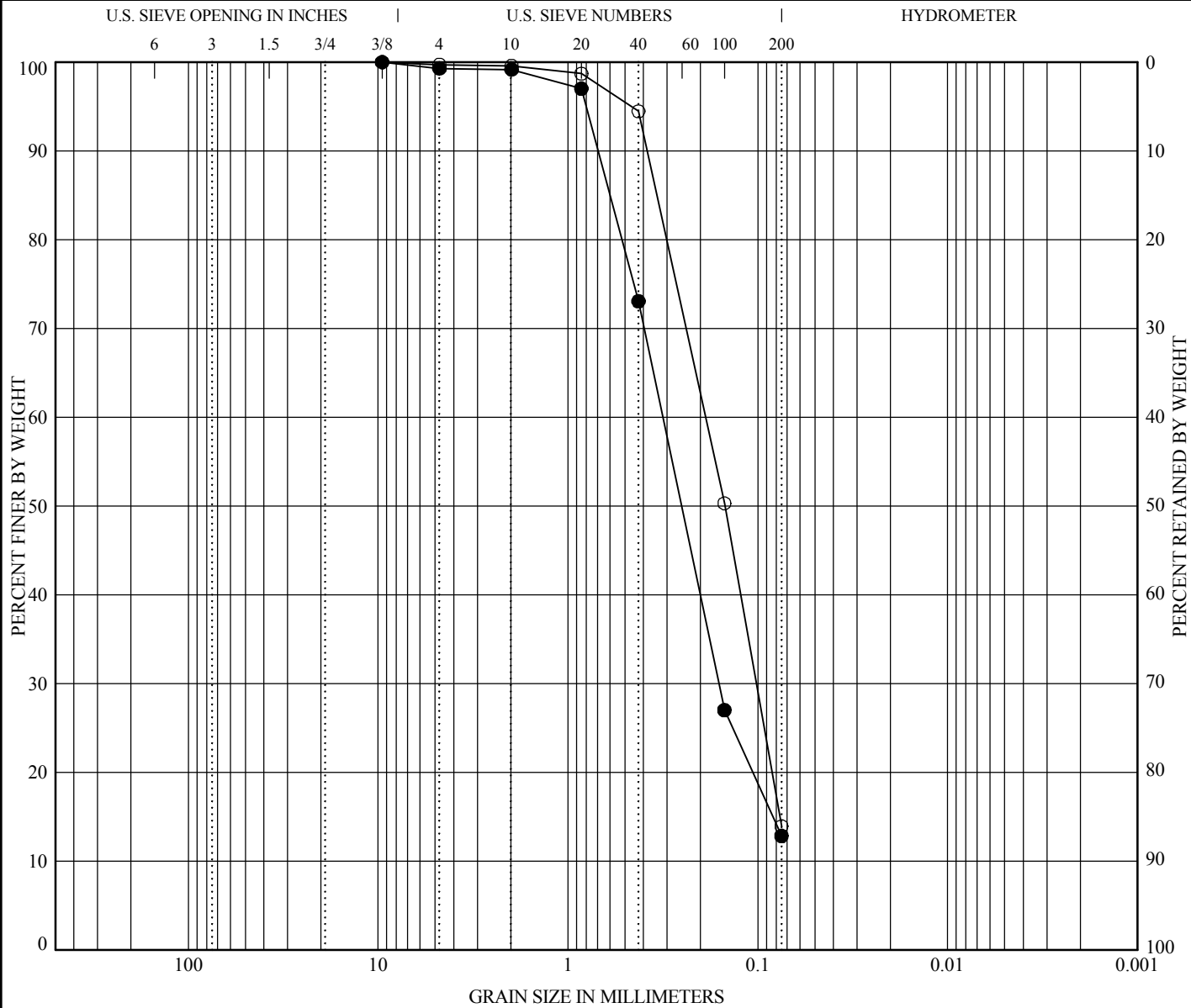
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 Figure: F-6.209

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-111	83-84	SILTY SAND (SM)	--	--	--	--	--
●	S-111	88-89	SILTY SAND (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-111	83-84	9.52	0.189	0.102	--	0.3	85.8	13.9
●	S-111	88-89	9.52	0.316	0.161	--	0.7	86.5	12.8

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

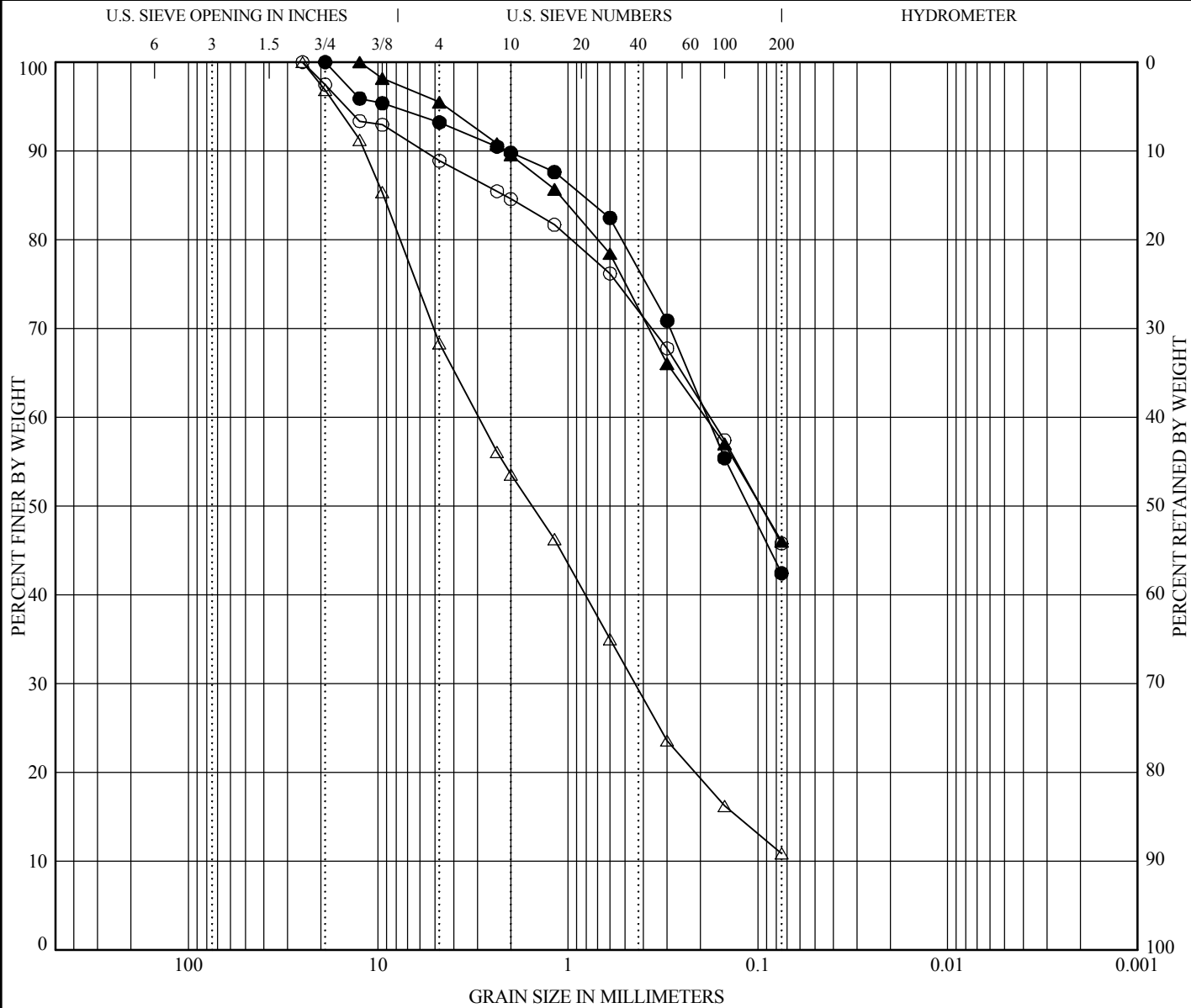
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-113	67-68	CLAYEY SAND (SC)	27	14	13	--	--
●	S-113	83-84	CLAYEY SAND (SC)	27	14	13	--	--
△	S-113	87-88	WELL GRADED SAND with SILT and GRAVEL (SW-SM)	--	--	--	1.0	44.0
▲	S-113	98.5-99.5	CLAYEY SAND (SC)	28	14	14	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-113	67-68	25.00	0.178	--	--	11.1	43.1	45.8
●	S-113	83-84	19.00	0.184	--	--	6.8	50.8	42.4
△	S-113	87-88	25.00	2.948	0.443	--	31.7	57.5	10.9
▲	S-113	98.5-99.5	12.50	0.189	--	--	4.5	49.5	46.0

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

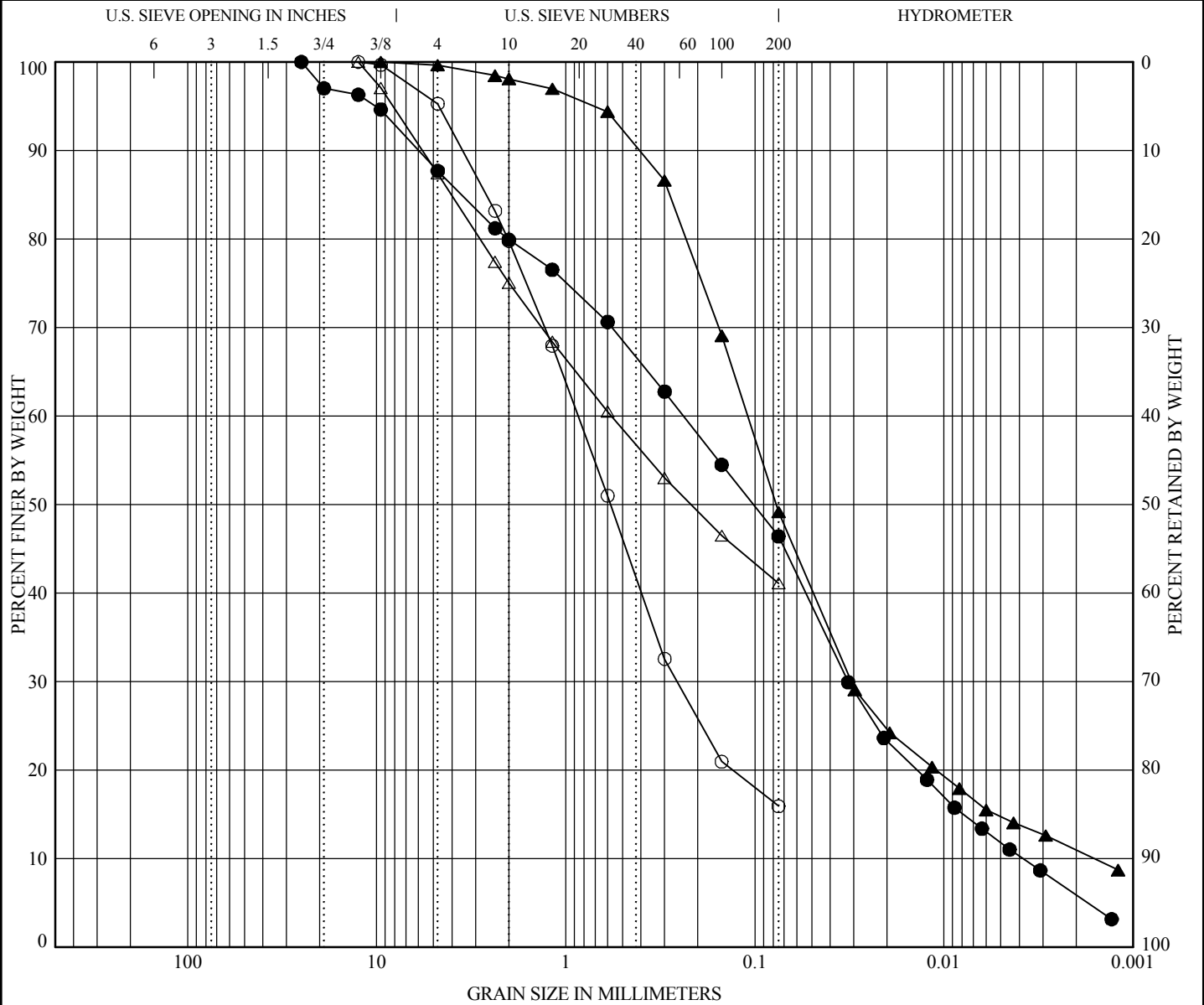
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-113	102-103	SILTY SAND (SM)	--	--	--	--	--
●	S-113	106-107	CLAYEY SAND (SC)	24	16	8	1.1	62.2
△	S-113	107-108	SILTY SAND (SM)	--	--	--	--	--
▲	S-113	110.3-111.3	SILTY, CLAYEY SAND (SC-SM)	22	18	4	5.5	68.1

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-113	102-103	12.50	0.859	0.257	--	4.7	79.4	15.9
●	S-113	106-107	25.00	0.238	0.032	0.004	12.3	41.3	46.4
△	S-113	107-108	12.50	0.573	--	--	12.6	46.3	41.1
▲	S-113	110.3-111.3	9.50	0.109	0.031	0.002	0.4	50.5	49.2

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

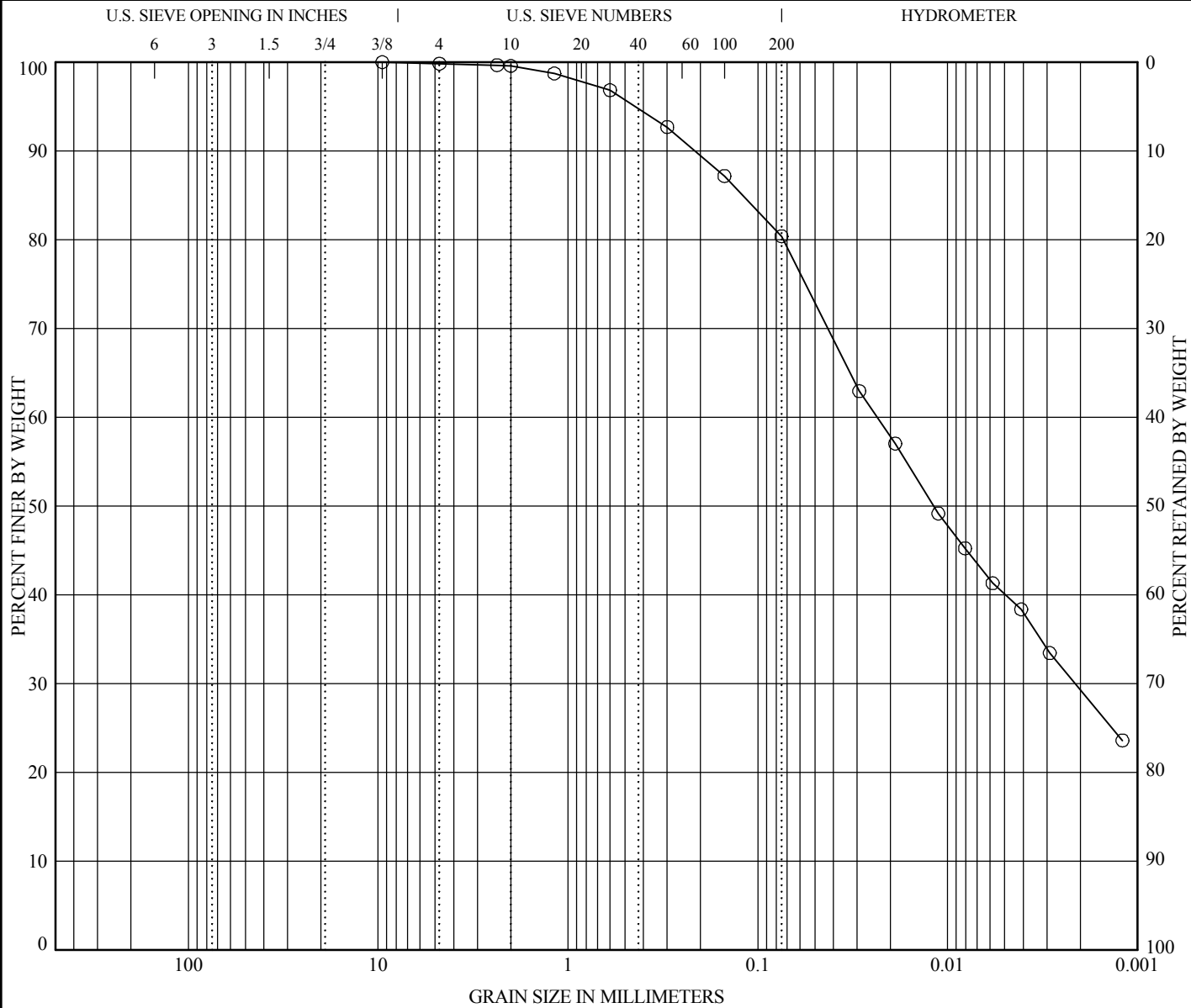
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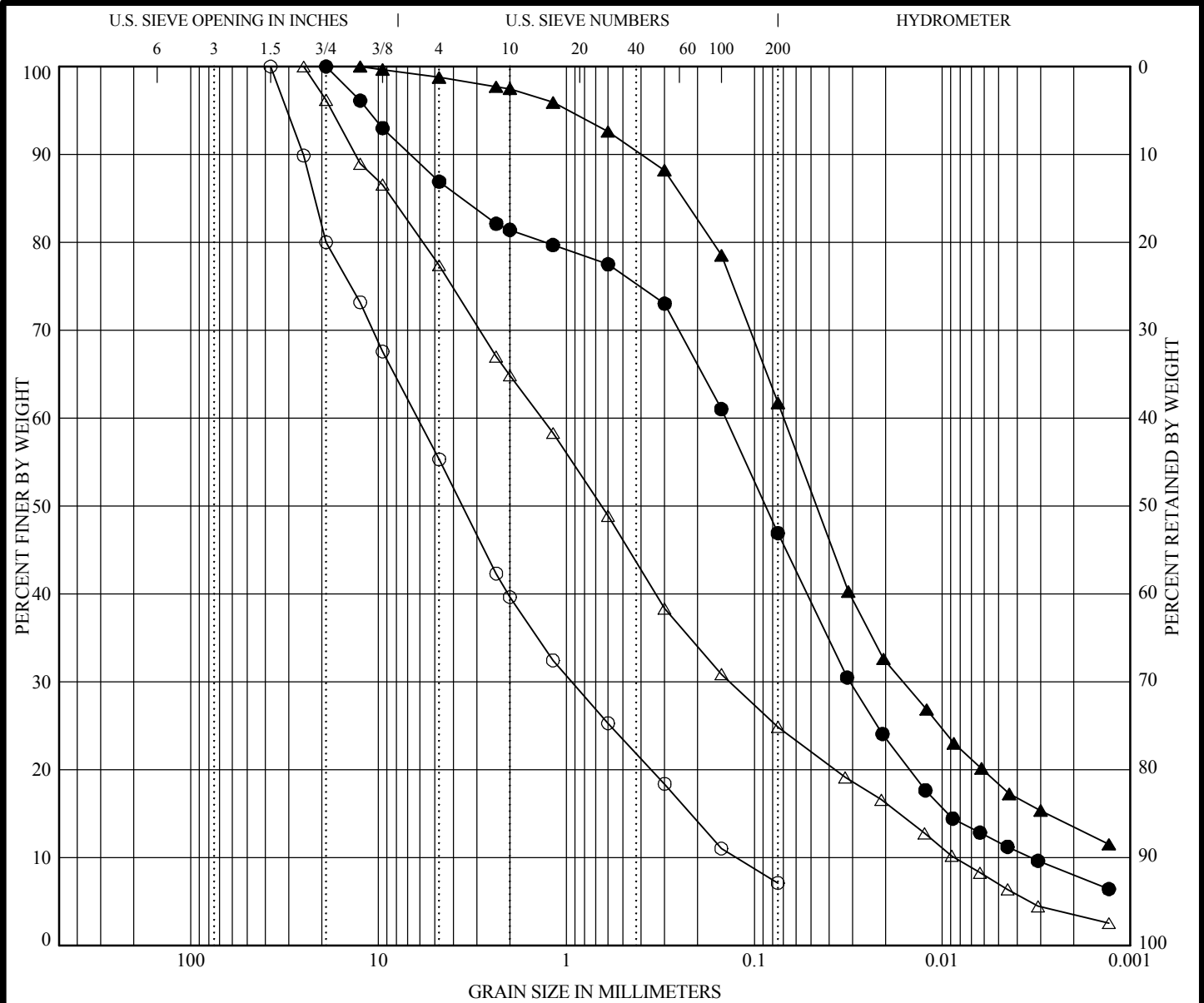


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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-114	17-18	WELL GRADED SAND with SILT and GRAVEL (SW-SM)	--	--	--	1.1	49.5
●	S-114	21-22	SILTY, CLAYEY SAND (SC-SM)	25	18	7	2.0	42.2
△	S-114	34-35	SILTY SAND with GRAVEL (SM)	--	--	--	1.6	157.9
▲	S-114	47-48	SANDY LEAN CLAY (CL)	31	18	13	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-114	17-18	37.50	6.191	0.937	0.125	44.7	48.2	7.1
●	S-114	21-22	19.00	0.143	0.031	0.003	13.1	40.0	46.9
△	S-114	34-35	25.00	1.353	0.136	0.009	22.6	52.5	24.9
▲	S-114	47-48	12.50	0.070	0.016	--	1.2	37.0	61.7

Laboratory Test Method: ASTM D 422

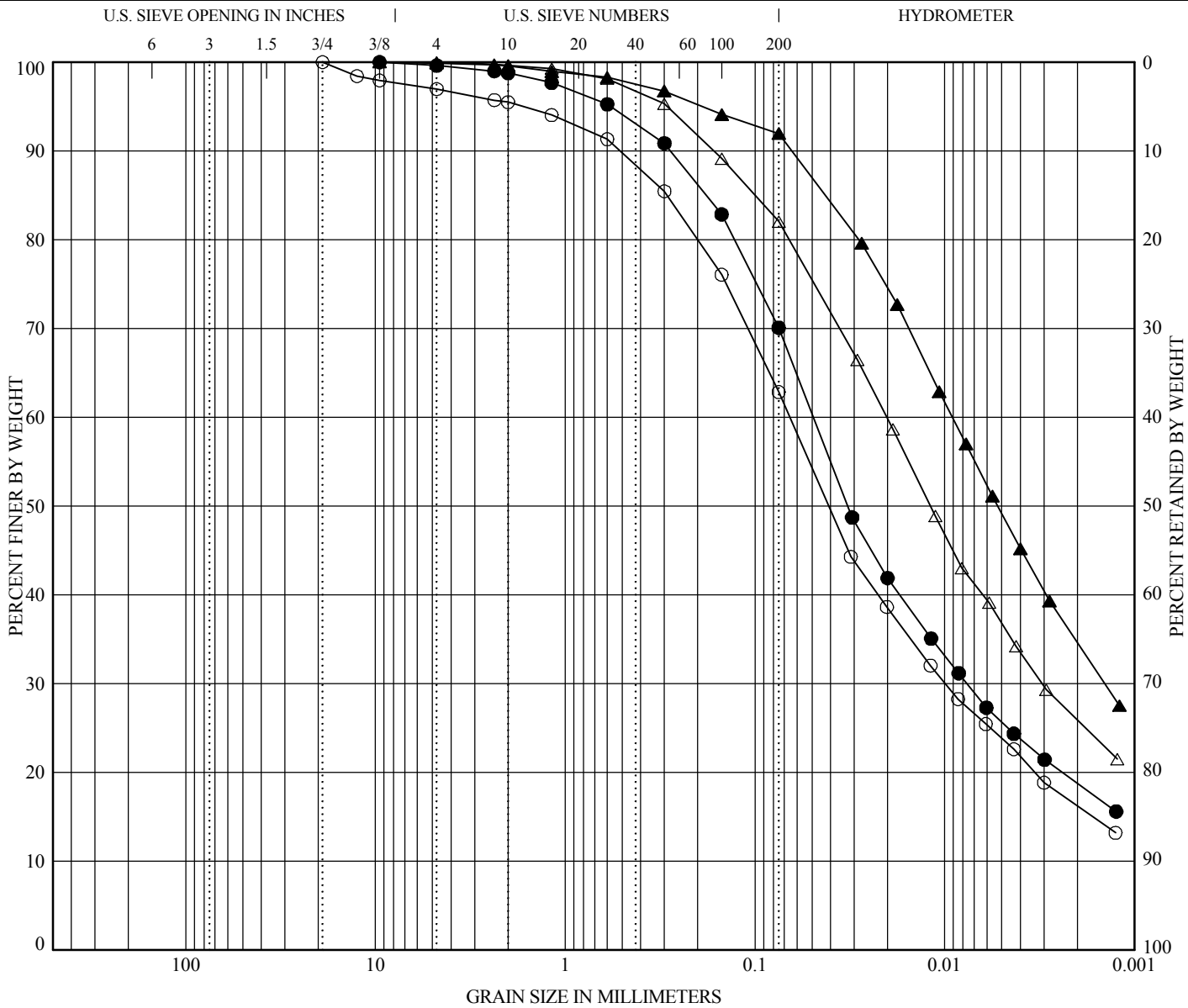
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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 Figure: F-6.214



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-114	59-60	SANDY LEAN CLAY (CL)	33	14	19	--	--
●	S-114	68-69	LEAN CLAY with SAND (CL)	33	16	17	--	--
△	S-114	77-78	LEAN CLAY with SAND (CL)	39	15	24	--	--
▲	S-114	87-88	FAT CLAY (CH)	57	18	39	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-114	59-60	19.00	0.066	0.010	--	3.0	34.1	62.8
●	S-114	68-69	9.50	0.049	0.008	--	0.4	29.5	70.1
△	S-114	77-78	4.75	0.020	0.003	--	0.0	18.0	82.1
▲	S-114	87-88	9.50	0.009	0.001	--	0.1	7.9	92.0

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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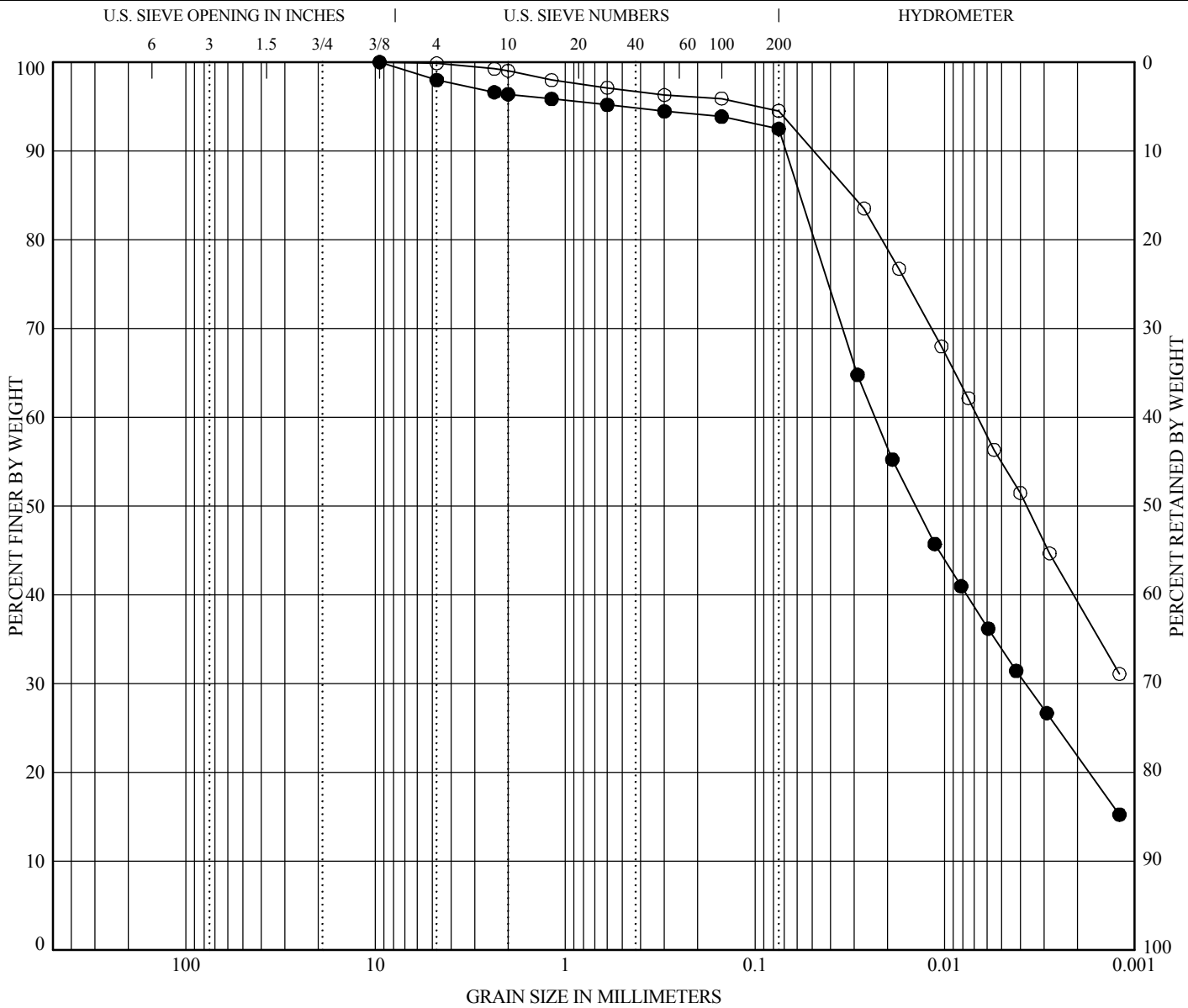
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Figure: F-6.215

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-114	93-94	FAT CLAY (CH)	62	20	42	--	--
●	S-114	105-106	FAT CLAY (CH)	57	17	40	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-114	93-94	9.50	0.007	--	--	0.1	5.4	94.5
●	S-114	105-106	9.50	0.023	0.004	--	2.0	5.5	92.5

Laboratory Test Method: ASTM D 422

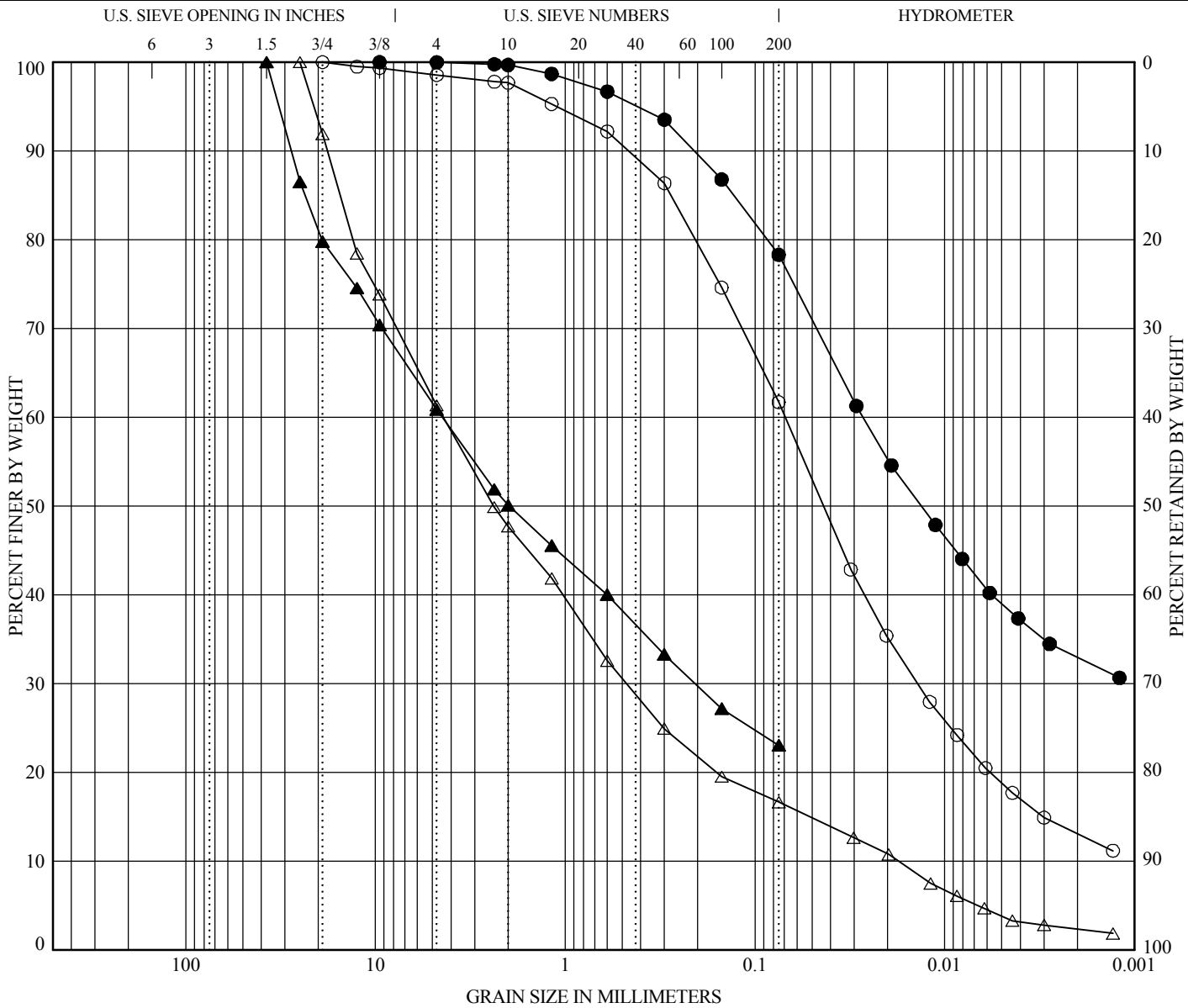
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 Figure: F-6.216



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION			LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-115	16-17	SANDY SILTY CLAY (CL-ML)			22	16	6	--	--
●	S-115	30-31	LEAN CLAY with SAND (CL)			39	13	26	--	--
△	S-115	52-53	SILTY SAND with GRAVEL			--	--	--	2.9	249.6
▲	S-115	57-58	SILTY GRAVEL with SAND			--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-115	16-17	19.00	0.069	0.014	--	1.5	36.9	61.7
●	S-115	30-31	9.50	0.027	--	--	0.0	21.7	78.3
△	S-115	52-53	25.00	4.379	0.475	0.018	38.7	44.7	16.6
▲	S-115	57-58	37.50	4.436	0.207	--	39.1	37.8	23.0

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

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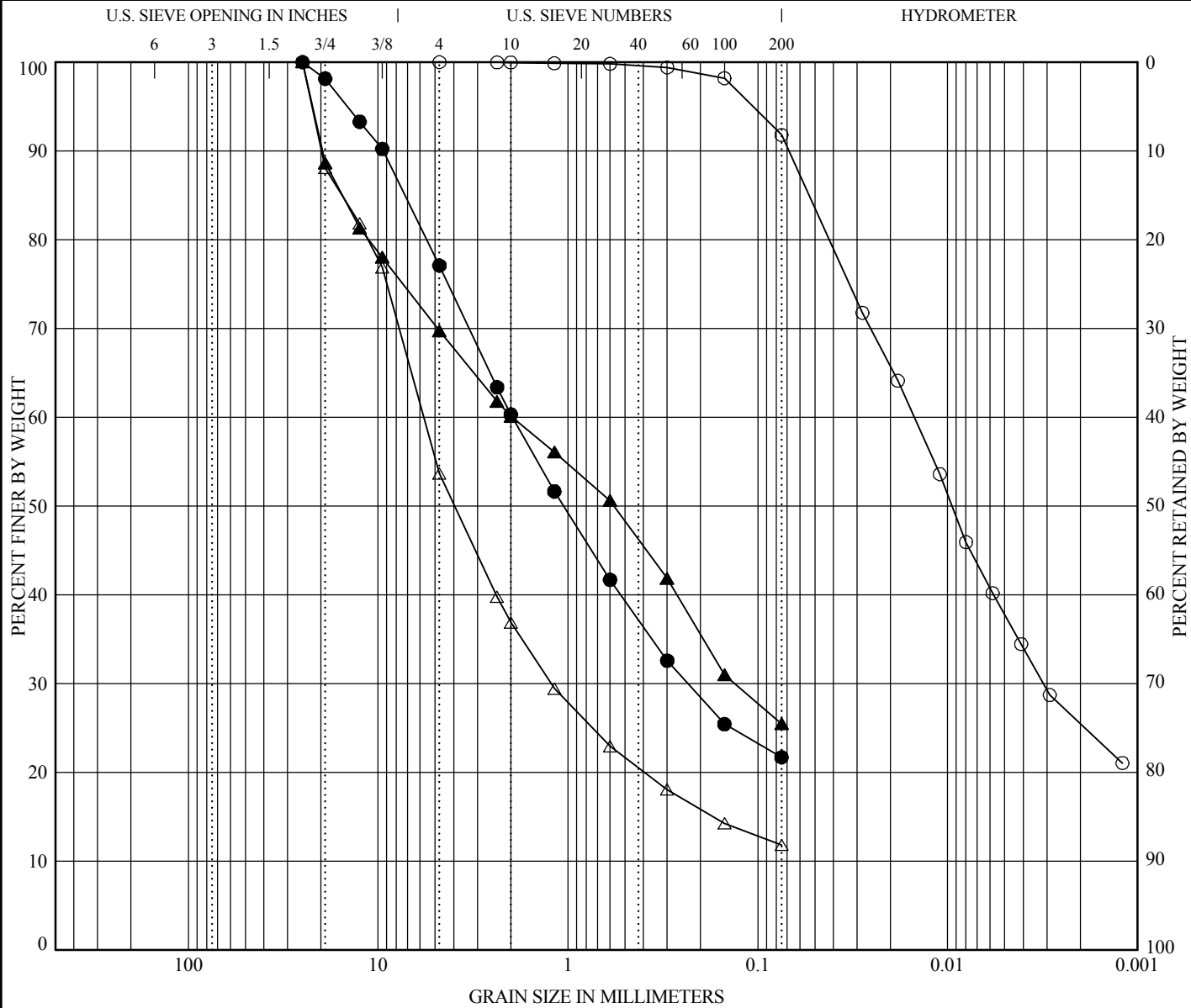
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-115	71-72	LEAN CLAY (CL)	41	17	24	--	--
●	S-115	82-83	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
△	S-115	87-88	POORLY GRADED GRAVEL with SILT and SAND (GP-GM)	--	--	--	5.9	128.3
▲	S-115	106-107	SILTY SAND with GRAVEL (SM)	--	--	--	--	--

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-115	71-72	4.75	0.015	0.003	--	0.0	8.2	91.8
●	S-115	82-83	25.00	1.963	0.234	--	22.9	55.4	21.7
△	S-115	87-88	25.00	5.737	1.229	--	46.3	41.9	11.8
▲	S-115	106-107	25.00	1.974	0.132	--	30.3	44.3	25.5

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

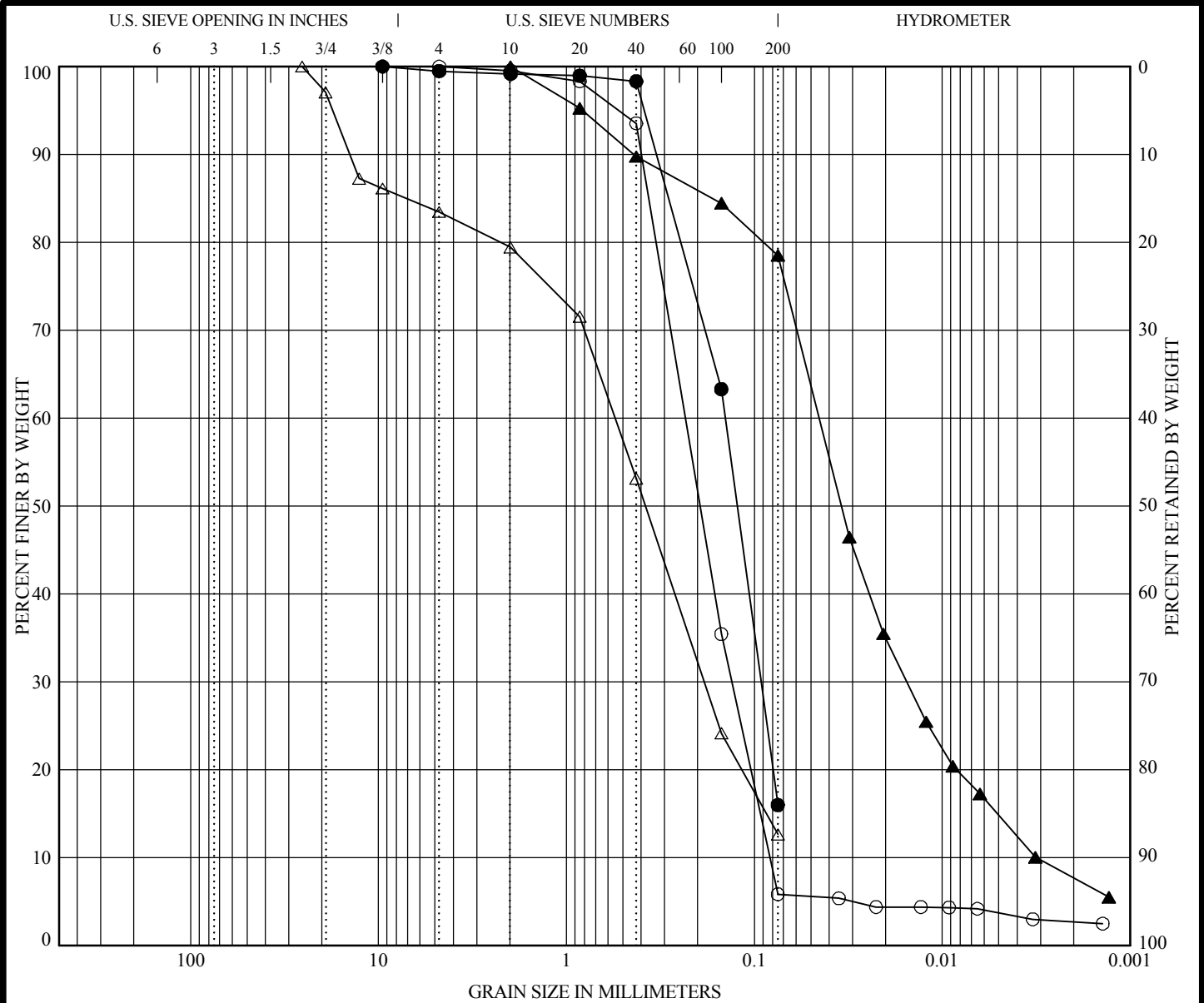
Prepared/Date: YN 7/16/2011
 Checked/Date: LT 7/19/2011

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PARTICLE SIZE DISTRIBUTION
 Project No.: 4953-10-1561
 Figure: F-6.218

MACTEC I.A. GRAIN SIZE S:\70131 GEOTECH\IN\WALIBRARY\MACTEC JUNE2011.GLB
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-116	39-40	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	0.9	2.8
●	S-116	48-49	SILTY SAND (SM)	--	--	--	--	--
△	S-116	57-58	SILTY SAND with GRAVEL (SM)	--	--	--	--	--
▲	S-116	76-77	SILTSTONE	47	38	9	1.7	14.3

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-116	39-40	4.75	0.233	0.132	0.083	0.0	94.2	5.8
●	S-116	48-49	9.52	0.143	0.092	--	0.5	83.5	16.0
△	S-116	57-58	25.40	0.551	0.185	--	16.5	70.8	12.6
▲	S-116	76-77	1.98	0.045	0.015	0.003	0.0	21.5	78.5

Laboratory Test Method: ASTM D 422

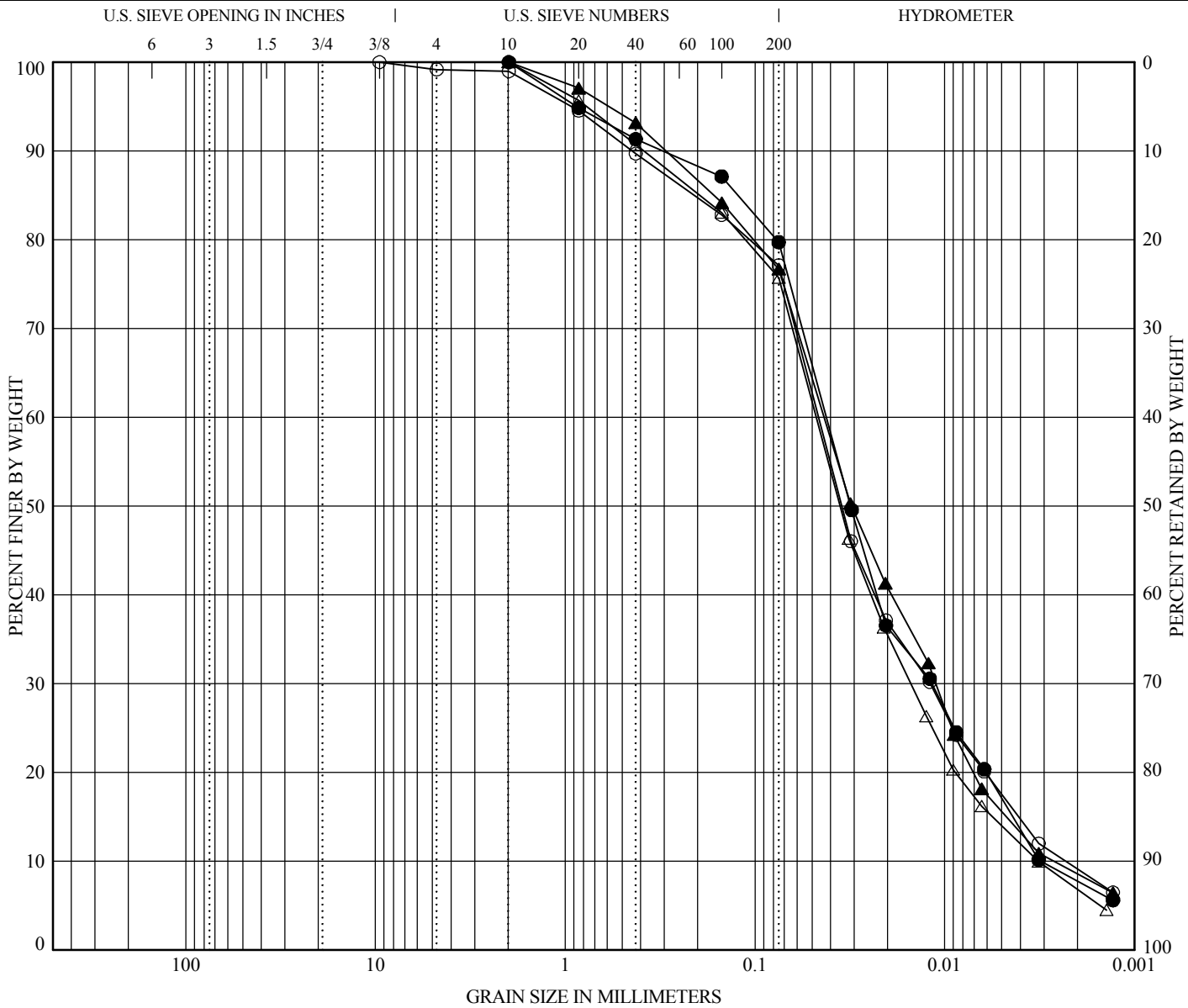
*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: JF 9/1/2011
 Checked/Date: LT 9/29/2011

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PARTICLE SIZE DISTRIBUTION
 Project No.: 4953-10-1561
 Figure: F-6.219



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-116	81-82	SILTSTONE	51	44	7	1.3	20.0
●	S-116	91-92	SILTSTONE	--	--	--	1.0	13.5
△	S-116	101-102	SILTSTONE	47	42	5	1.5	14.8
▲	S-116	106-107	SILTSTONE	--	--	--	1.1	16.2

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-116	81-82	9.52	0.046	0.012	0.002	0.8	22.1	77.1
●	S-116	91-92	1.98	0.042	0.012	0.003	0.0	20.3	79.7
△	S-116	101-102	1.98	0.048	0.015	0.003	0.0	24.3	75.7
▲	S-116	106-107	1.98	0.043	0.011	0.003	0.0	23.3	76.7

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

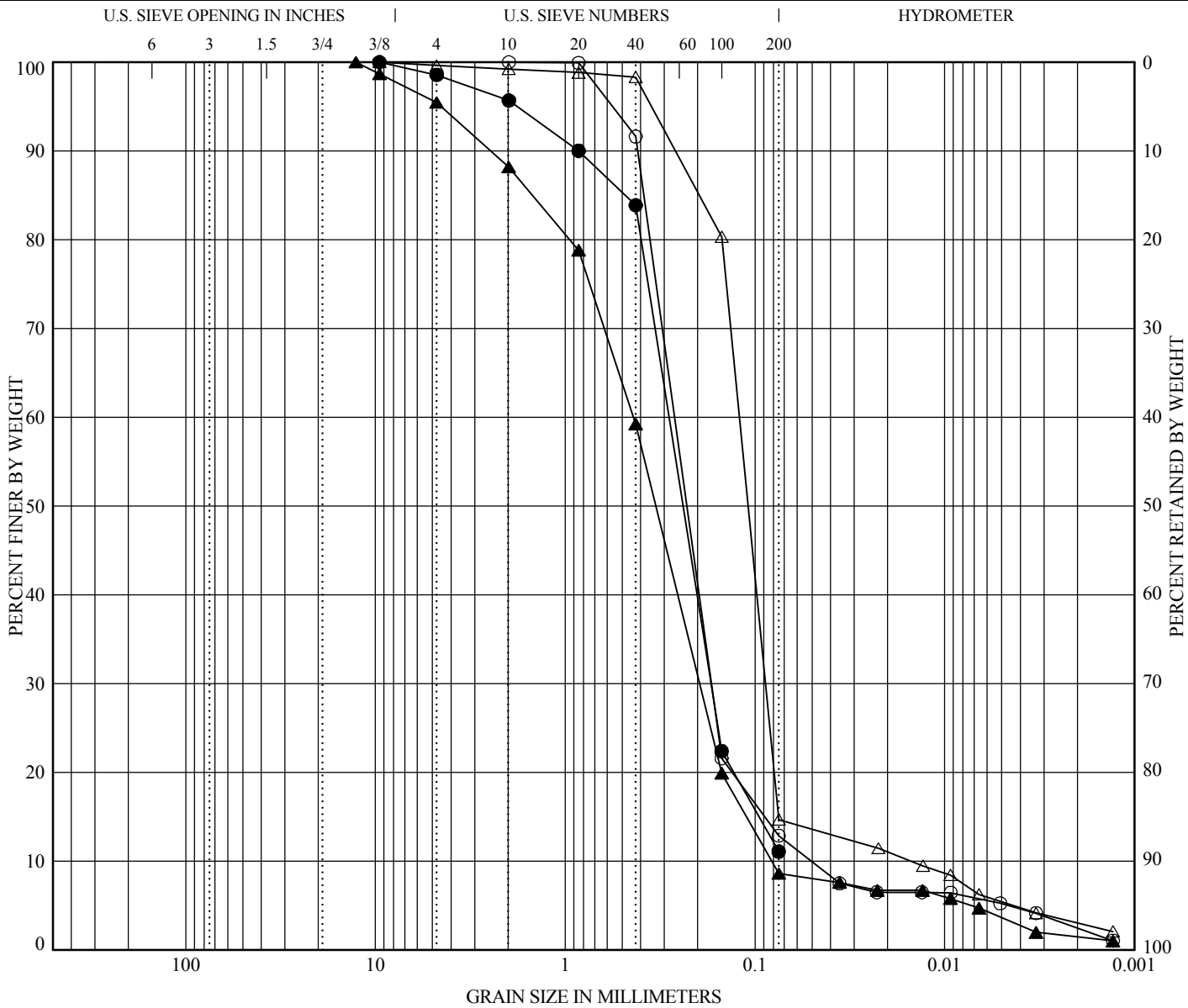
Prepared/Date: JF 9/1/2011
Checked/Date: LT 9/29/2011

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PARTICLE SIZE DISTRIBUTION
Project No.: 4953-10-1561
Figure: F-6.220

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-117	24-25	SILTY SAND (SM)	NP	NP	NP	2.2	5.2
●	S-117	36-37	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.5	4.0
△	S-117	39-40	SILTY SAND (SM)	NP	NP	NP	4.3	8.1
▲	S-117	55-56	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.1	5.3

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-117	24-25	1.98	0.266	0.170	0.051	0.0	87.1	12.9
●	S-117	36-37	9.52	0.284	0.171	--	1.4	87.5	11.1
△	S-117	39-40	9.52	0.121	0.088	0.015	0.4	84.9	14.7
▲	S-117	55-56	12.70	0.437	0.196	0.082	4.5	86.8	8.6

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

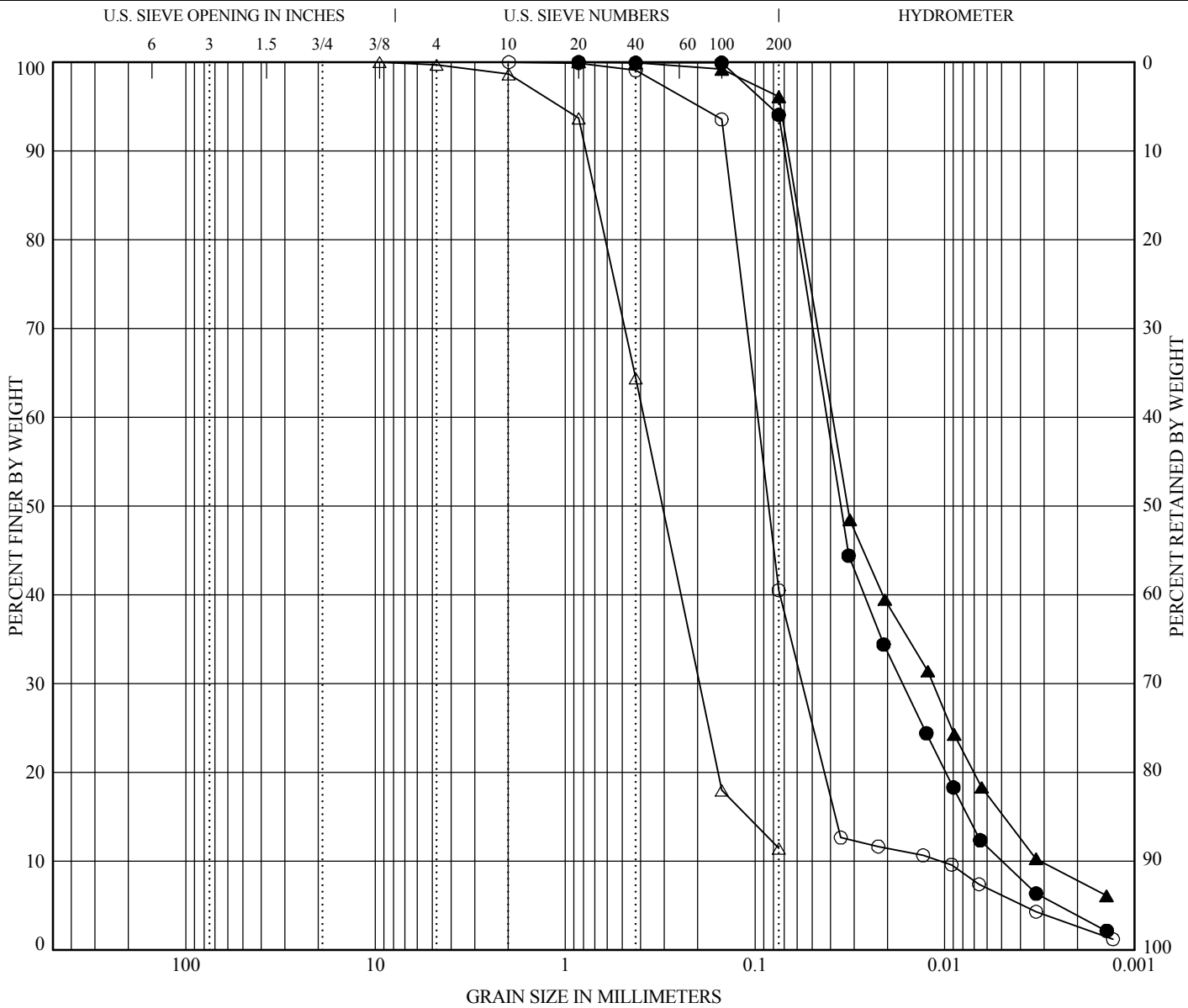
Prepared/Date: WL 9/11/2011
Checked/Date: LT 9/28/2011

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PARTICLE SIZE DISTRIBUTION
Project No.: 4953-10-1561
Figure: F-6.221

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-117	62-63	SILTY SAND (SM)	NP	NP	NP	3.1	9.2
●	S-117	67-68	SILTSTONE	NP	NP	NP	1.3	8.4
△	S-117	91.0	SILTSTONE	--	--	--	1.6	6.0
▲	S-117	92-93	SILTSTONE	NP	NP	NP	1.1	12.5

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-117	62-63	1.98	0.097	0.056	0.010	0.0	59.5	40.5
●	S-117	67-68	0.85	0.042	0.017	0.005	0.0	5.9	94.1
△	S-117	91.0	9.52	0.385	0.196	--	0.3	88.3	11.4
▲	S-117	92-93	0.85	0.039	0.012	0.003	0.0	3.9	96.1

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

Prepared/Date: WL 9/19/2011
Checked/Date: LT 9/28/2011

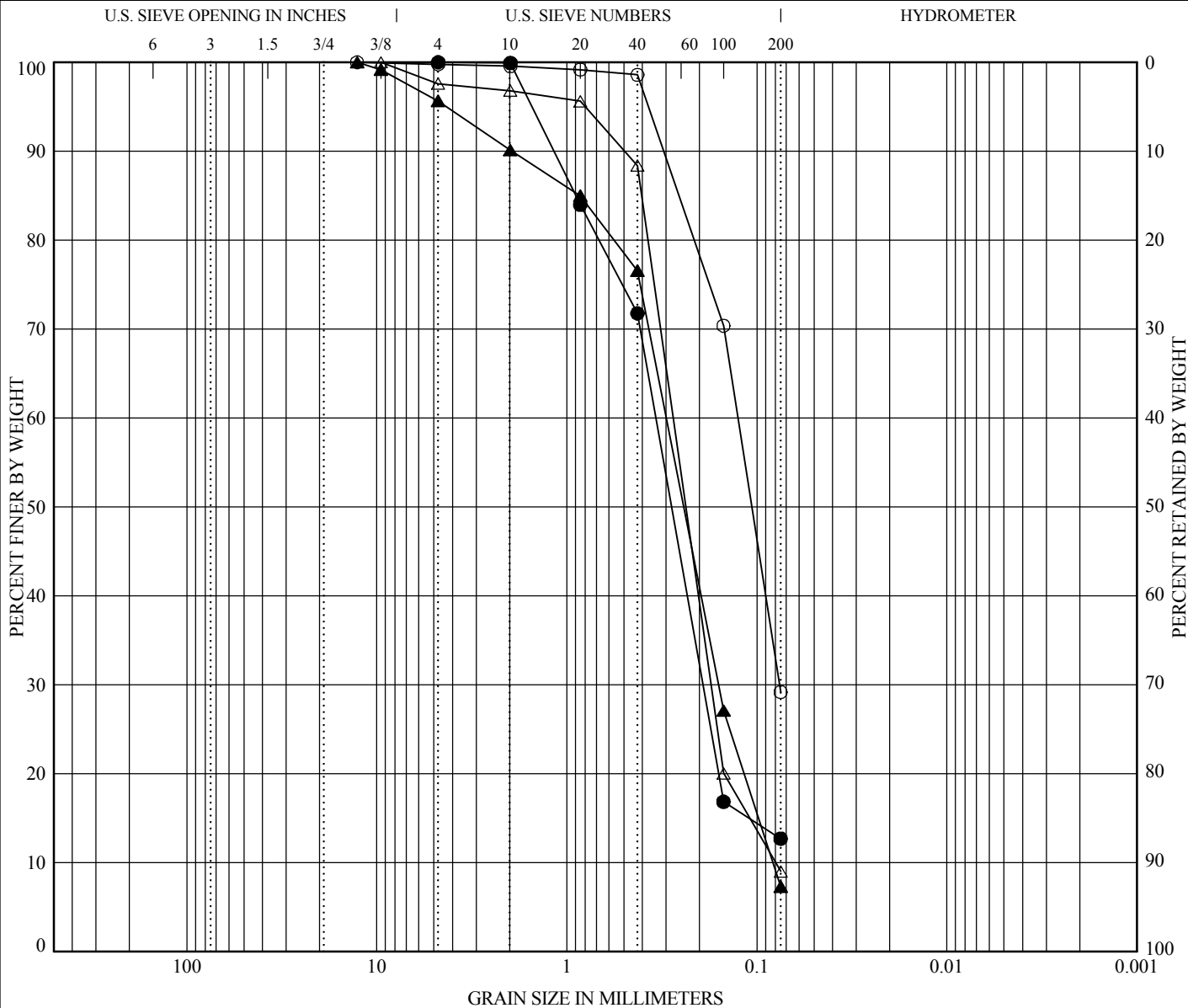
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PARTICLE SIZE DISTRIBUTION
Project No.: 4953-10-1561
Figure: F-6.222

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-118	10-11	SILTY SAND (SM)	--	--	--	--	--
●	S-118	46-47	SILTY SAND (SM)	--	--	--	--	--
△	S-118	60.5	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.4	3.5
▲	S-118	72-73	POORLY GRADED SAND with SILT (SP-SM)	--	--	--	1.0	3.6

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-118	10-11	12.70	0.126	0.076	--	0.2	70.6	29.2
●	S-118	46-47	4.75	0.340	0.193	--	0.0	87.3	12.7
△	S-118	60.5	9.52	0.276	0.175	0.080	2.4	88.6	9.0
▲	S-118	72-73	12.70	0.300	0.159	0.082	4.3	88.4	7.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

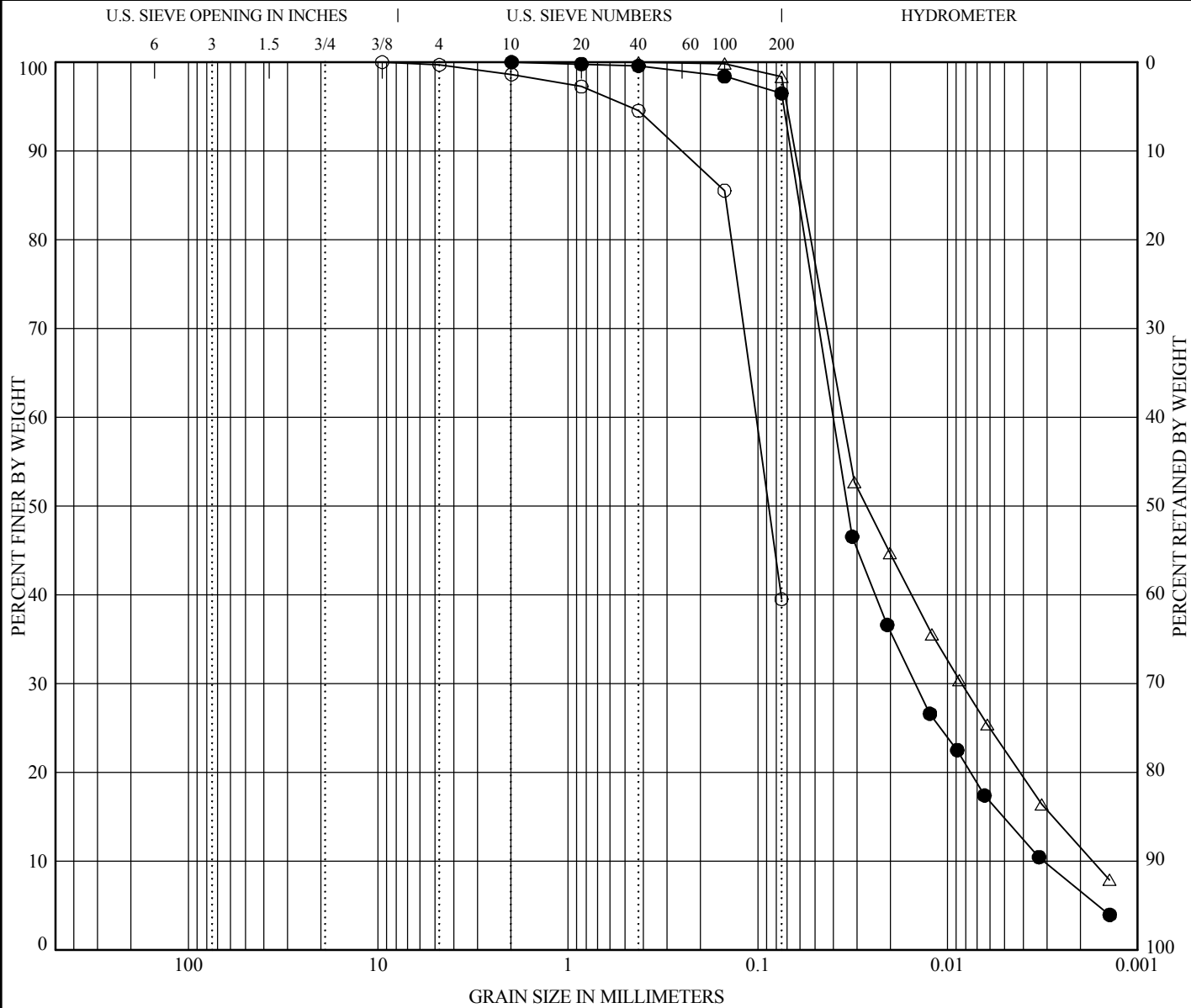
Prepared/Date: WL 9/13/2011
 Checked/Date: LT 9/24/2011

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PARTICLE SIZE DISTRIBUTION
 Project No.: 4953-10-1561
 Figure: F-6.223

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SYMBOL	BORING	DEPTH (ft)	CLASSIFICATION	LL (%)*	PL (%)*	PI (%)*	C _c	C _u
○	S-118	79-80	SILTY SAND (SM)	--	--	--	--	--
●	S-118	84-85	SILTSTONE	NP	NP	NP	1.8	12.9
△	S-118	94-95	SILTSTONE	--	--	--	1.2	20.8

SYMBOL	BORING	DEPTH (ft)	D ₁₀₀ (mm)	D ₆₀ (mm)	D ₃₀ (mm)	D ₁₀ (mm)	% Gravel	% Sand	% Silt or % Clay
○	S-118	79-80	9.52	0.102	--	--	0.3	60.2	39.5
●	S-118	84-85	1.98	0.040	0.015	0.003	0.0	3.5	96.5
△	S-118	94-95	0.43	0.036	0.008	0.002	0.0	1.7	98.3

Laboratory Test Method: ASTM D 422

*As determined by ASTM D 4318; see attached Atterberg Limits Test Results.

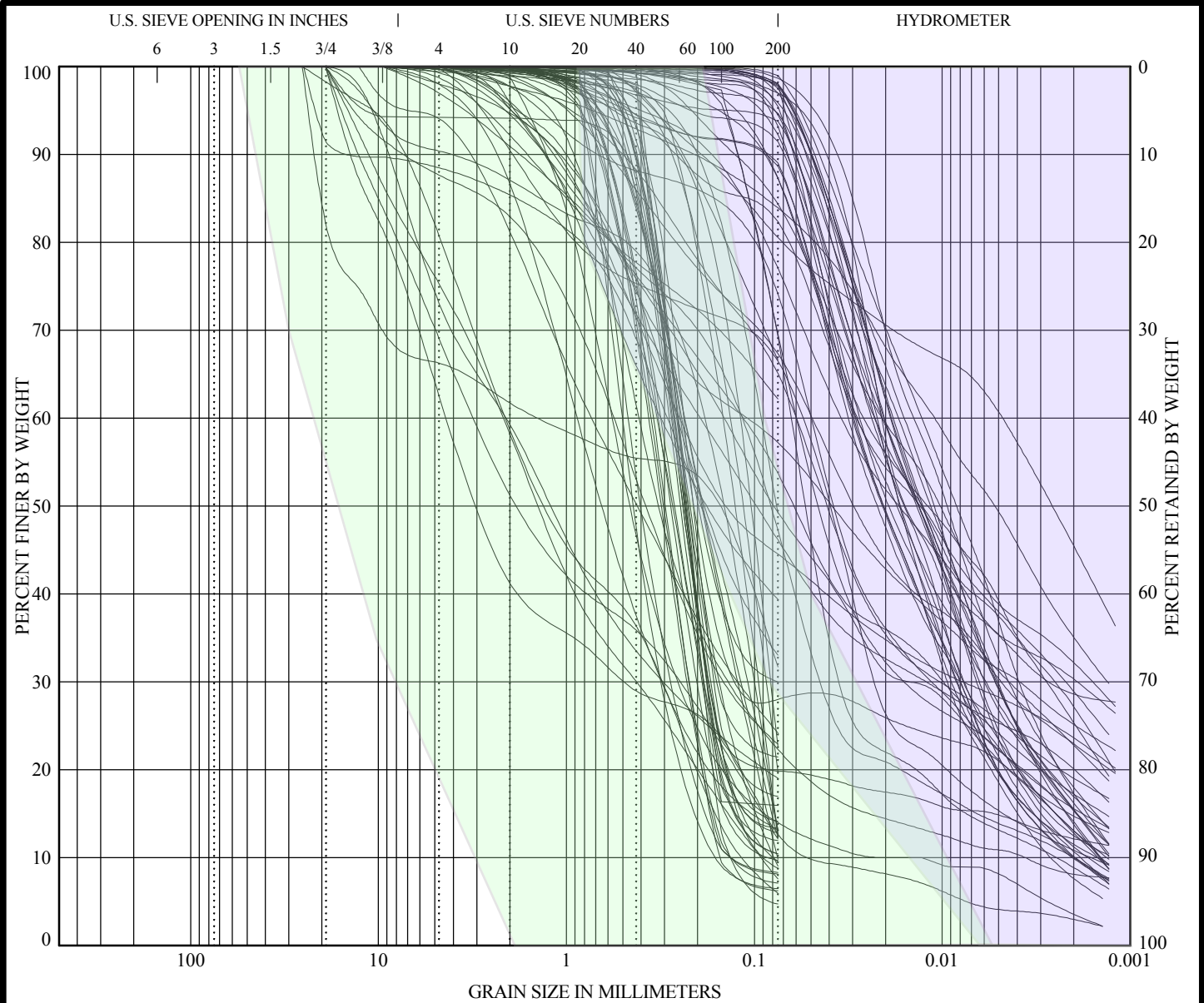
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PARTICLE SIZE DISTRIBUTION
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 Figure: F-6.224

MACTEC LA GRAIN SIZE 500 CURVES, S:\70131 GEOTECH\INTL\LIBRARY MACTEC JUNE2011 GLB
 T\JIMMY SIEVES N ATTERBERG PLOTS FOR REACHES\4953-10-1561 MTA WESTSIDE SUBWAY EXTENSION.GPJ 10/18/11



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Slurry Shield TBM

Earth Pressure Balance TBM

WESTERN-COCHRAN REACH

Prepared/Date: JF 6/29/2011

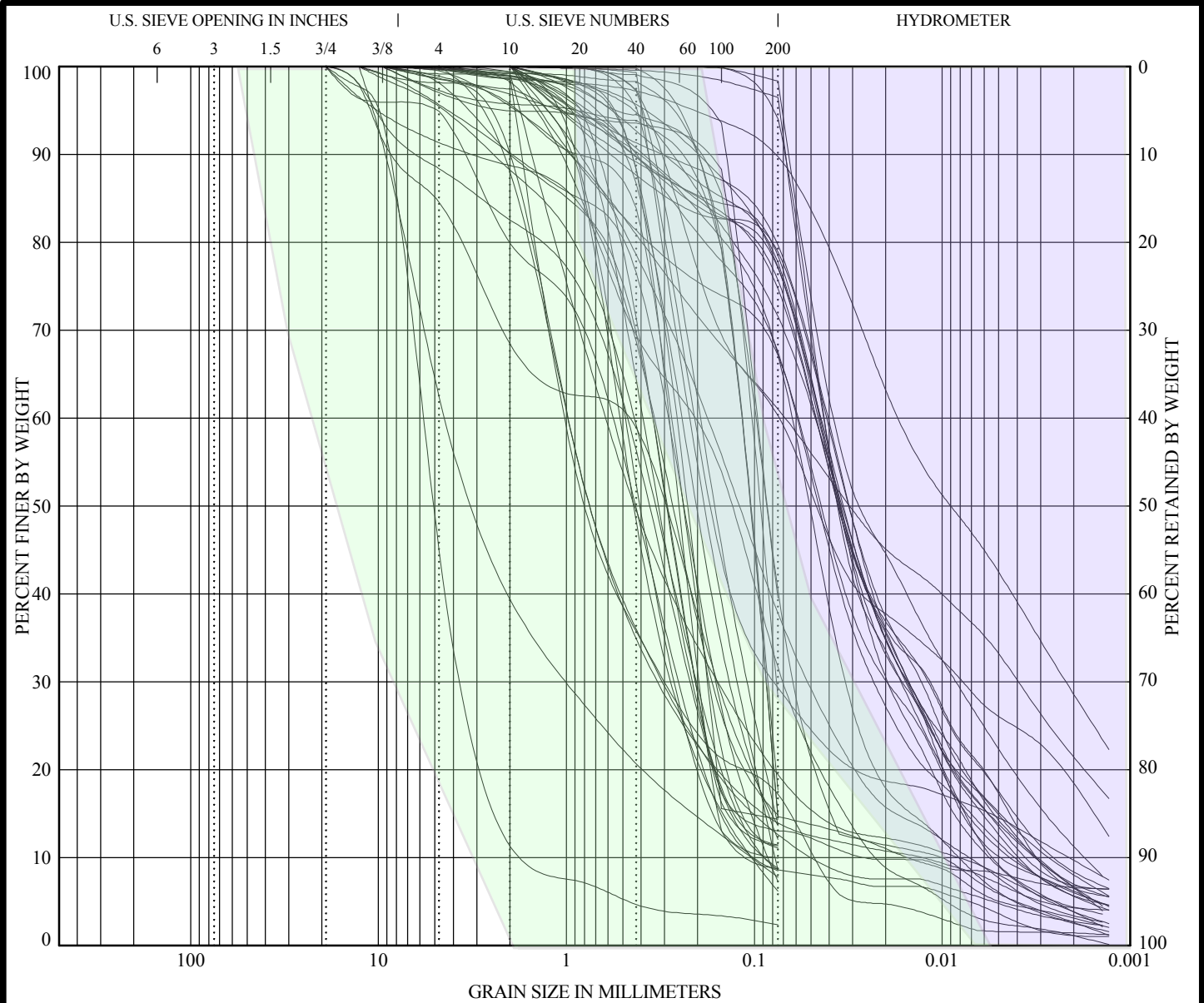
Checked/Date: LT 7/29/2011

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PARTICLE SIZE DISTRIBUTION
Project No.: 4953-10-1561
Figure: F-6.225

MACTEC LA GRAIN SIZE 500 CURVES, S:\70131 GEOTECH\INT\LIBRARY MACTEC JUNE2011 GLB
 T\JIMMY SIEVES N ATTERBERG PLOTS FOR REACHES\4953-10-1561 MTA WESTSIDE SUBWAY EXTENSION.GPJ 10/18/11



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Slurrv Shield TBM

Earth Pressure Balance TBM

COCHRAN-LA JOLLA REACH

Prepared/Date: JF 9/7/2011

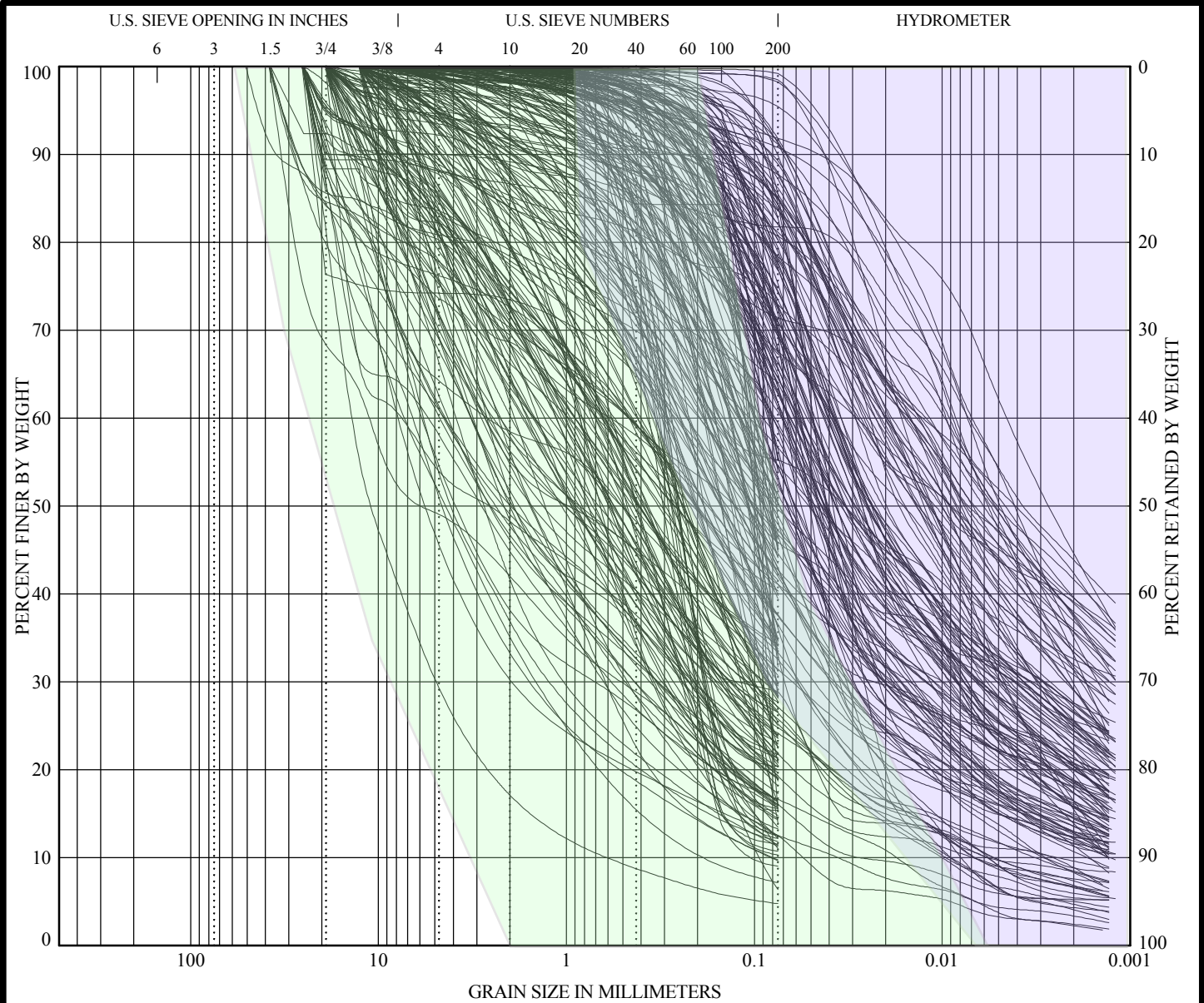
Checked/Date: LT 9/9/2011

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PARTICLE SIZE DISTRIBUTION
Project No.: 4953-10-1561
Figure: F-6.226

MACTEC LA GRAIN SIZE 500 CURVES, S:\70131 GEOTECH\INT\LIBRARY MACTEC JUNE2011 GLB
 TJJIMMY SIEVES N ATTERBERG PLOTS FOR REACHES 4953-10-1561 MTA WESTSIDE SUBWAY EXTENSION.GPJ 10/18/11



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Slurry Shield TBM

Earth Pressure Balance TBM

LA JOLLA-VA REACH

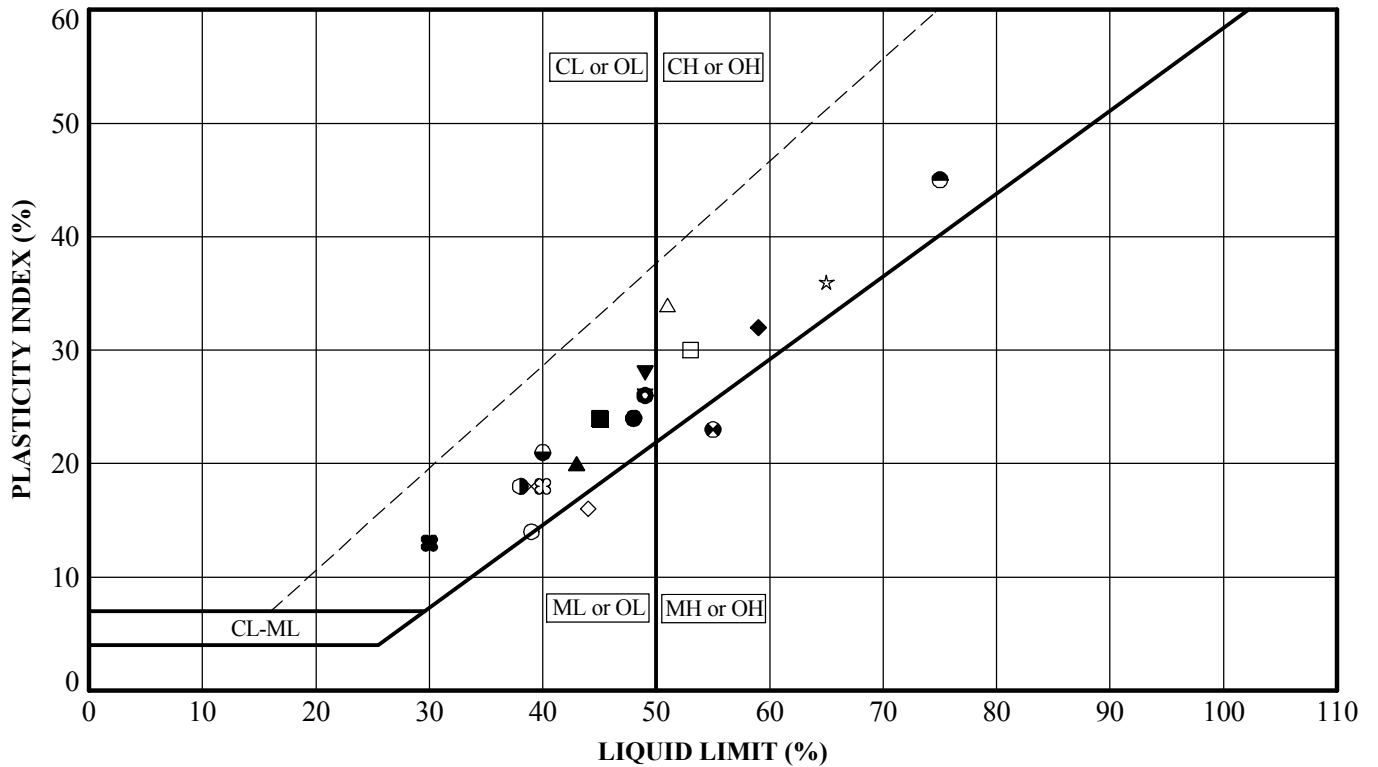
Prepared/Date: JF 6/29/2011 Checked/Date: LT 7/29/2011

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PARTICLE SIZE DISTRIBUTION
 Project No.: 4953-10-1561
 Figure: F-6.227

**FIGURES F-7.1.1 THROUGH F-7.1.2
ATTERBERG LIMITS (ACE PHASE)**



SYMBOL	BORING	DEPTH (ft)	LL (%)	PL (%)	PI (%)	CLASSIFICATION
○	G-1	10.5	39	25	14	LEAN CLAY (CL)
●	G-1	40.5	48	24	24	LEAN CLAY (CL)
△	G-3	5.5	51	17	34	FAT CLAY (CL)
▲	G-3	40.5	43	23	20	SANDY LEAN CLAY (CL)
□	G-3	45.5	53	23	30	FAT CLAY (CH)
■	G-4	10.5	45	21	24	CLAYEY SAND (SC)
▽	G-4	30.5	49	23	26	LEAN CLAY (CL)
▼	G-5	20.5	49	21	28	LEAN CLAY (CL)
⊙	G-5	30.5	49	23	26	SANDY LEAN CLAY (CL)
◇	G-6	70.5	44	28	16	CLAYEY SILT (ML)
◆	G-7	15.5	59	27	32	FAT CLAY (CH)
⊕	G-7	30.5	55	32	23	SANDY ELASTIC SILT (MH)
⊗	G-8	30.5	48	24	24	LEAN CLAY with SAND (CL)
☆	G-8	35.5	65	29	36	FAT CLAY with SAND (CH)
⊘	G-8	50.5	40	22	18	LEAN CLAY (CL)
⊖	G-9	5.5	75	30	45	FAT CLAY (CH)
⊗	G-9	20.5	40	19	21	SANDY LEAN CLAY (CL)
⊙	G-9	30.5	38	20	18	LEAN CLAY (CL)
×	G-9	60.5	39	21	18	LEAN CLAY (CL)
■	G-10	10.5	30	17	13	SANDY LEAN CLAY (CL)

Laboratory Test Method: ASTM D 4318

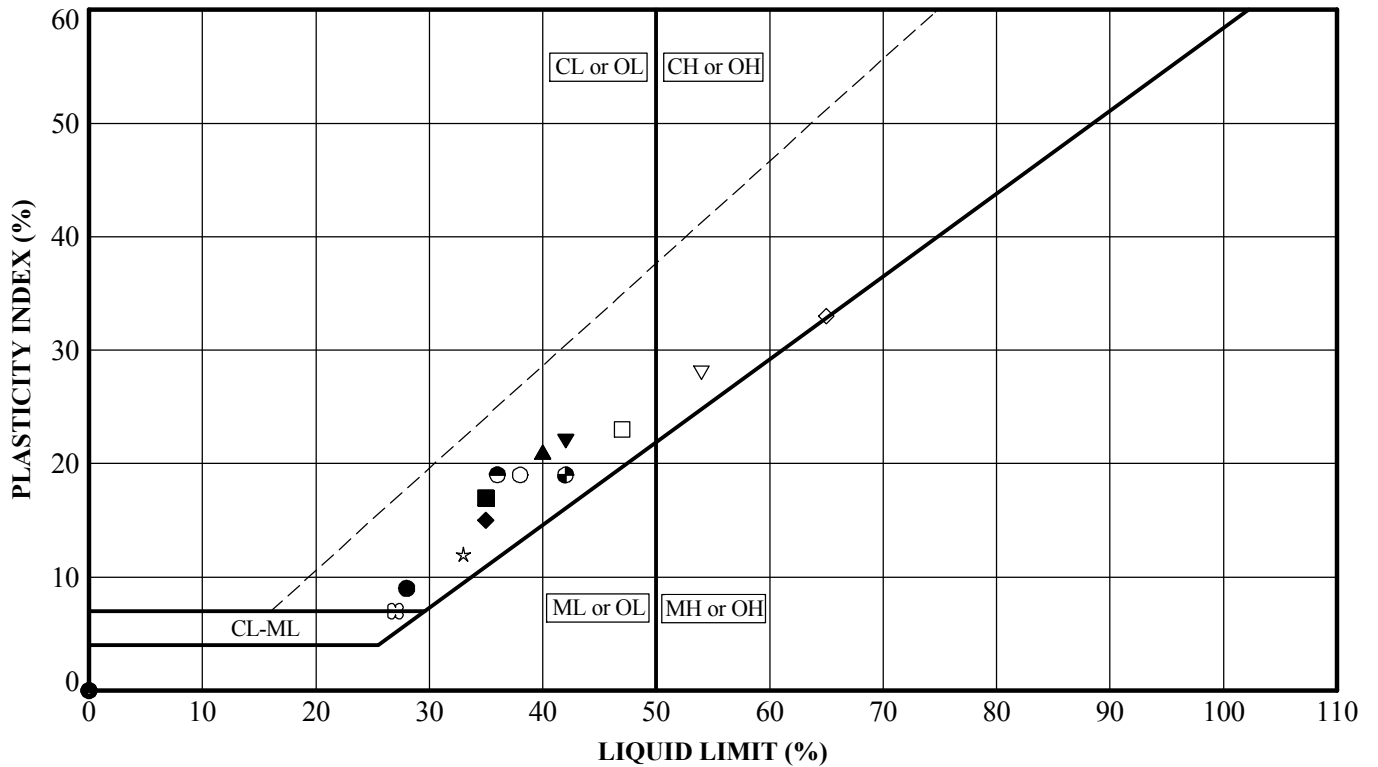
"NP" indicates Non-Plastic

Prepared/Date: JF 6/29/2011
Checked/Date: HP 12/2/2011

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Los Angeles, California



ATTERBERG LIMITS TEST RESULTS
Project No.: 4953-10-1561
Figure: F-7.1.1



SYMBOL	BORING	DEPTH (ft)	LL (%)	PL (%)	PI (%)	CLASSIFICATION
○	G-10	15.5	38	19	19	SANDY LEAN CLAY (CL)
●	G-10	50.5	28	19	9	CLAYEY SAND (SC)
△	G-10	70.5	40	19	21	LEAN CLAY (CL)
▲	G-11	20.5	40	19	21	SANDY LEAN CLAY (CL)
□	G-12	10.5	47	24	23	SANDY LEAN CLAY (CL)
■	G-12	60.5	35	18	17	LEAN CLAY (CL)
▽	G-13	40.5	54	26	28	FAT CLAY (CH)
▼	G-13	50.5	42	20	22	SANDY LEAN CLAY (CL)
⊙	G-13	70.5	NP	NP	NP	SILTY SAND (SM)
◇	G-14	50.5	65	32	33	FAT CLAY (CH)
◆	G-20	7.5	35	20	15	LEAN CLAY with SAND (CL)
⊗	G-20	50.5	NP	NP	NP	SILT (ML)
⊕	G-20	80.5	42	23	19	LEAN CLAY (CL)
☆	G-23	50.5	33	21	12	SANDY LEAN CLAY (CL)
⊗	G-23	70.5	27	20	7	SILTY CLAY (CL-ML)
⊙	G-24	10.5	36	17	19	SANDY LEAN CLAY (CL)

Laboratory Test Method: ASTM D 4318

"NP" indicates Non-Plastic

Prepared/Date: JF 6/29/2011
Checked/Date: HP 12/2/2011

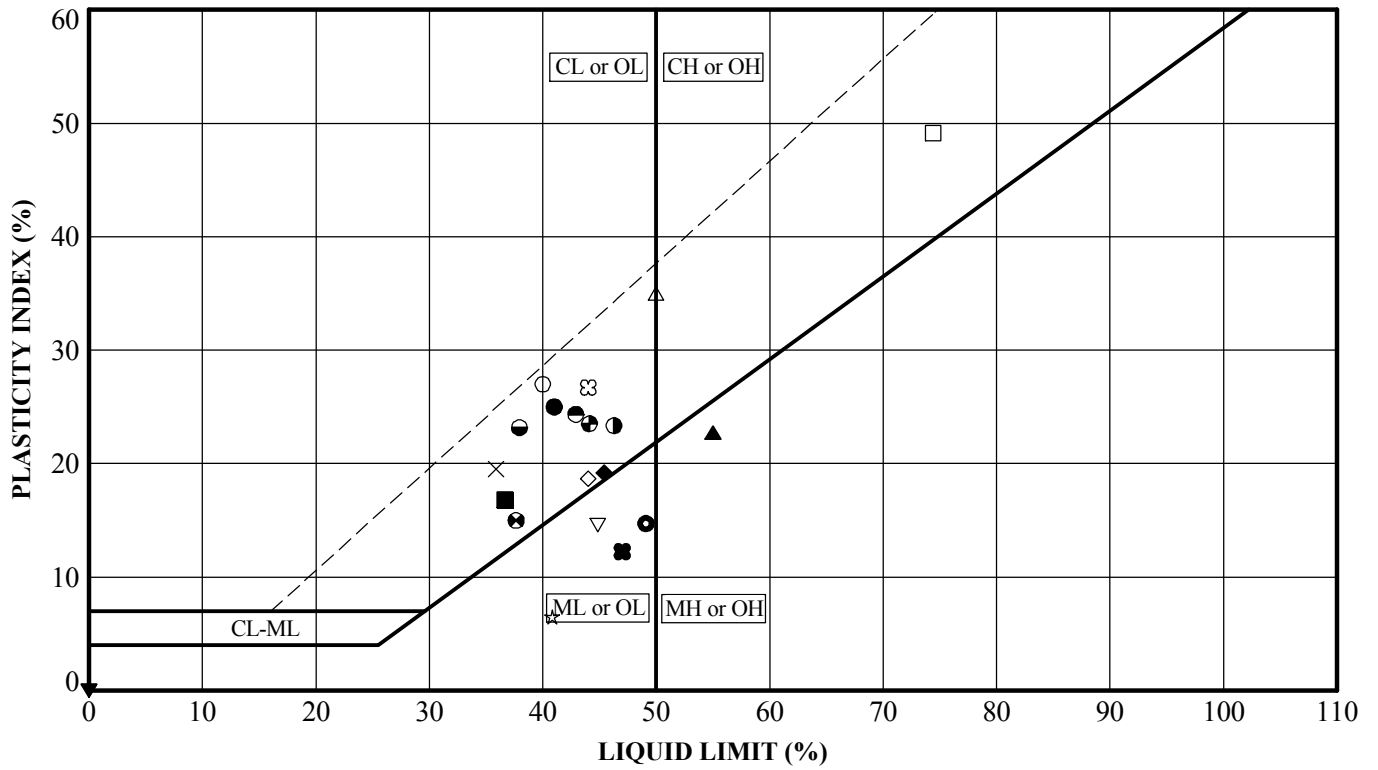
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ATTERBERG LIMITS TEST RESULTS
Project No.: 4953-10-1561
Figure: F-7.1.2

**FIGURES F-7.2.1 THROUGH F-7.2.29
ATTERBERG LIMITS (PE PHASE)**

MACTEC I.A. ATTERBERG LIMITS S:\70131 GEOTECH\GINT\W\LIBRARY_MACTEC\JUNE2011.GLB
 G:\PROJECT_DIRECTORIES\4953\2010\101561 METRO WESTSIDE EXTENSION\6.2.3.1 GEOTECHNICAL DESIGN\3.2 ALL FIELD NOTES\GINT LOG\4953-10-1561 MTA WESTSIDE SUBWAY EXTENSION.GPJ 12/4/11



SYMBOL	BORING	DEPTH (ft)	LL (%)	PL (%)	PI (%)	CLASSIFICATION
○	G-101	29.5	40	13	27	LEAN CLAY (CL)
●	G-101	39.5	41	16	25	LEAN CLAY (CL)
△	G-101	44.0	50	15	35	FAT CLAY (CH)
▲	G-102	20.5	55	32	23	ELASTIC SILT with SAND (MH)
□	G-102	30.5	74	25	49	FAT CLAY with SAND (CH)
■	G-102	35.5	37	20	17	SANDY LEAN CLAY (CL)
▽	G-102	50.5	45	30	15	SILTY SAND (SM)
▼	G-102	60.5	NP	NP	NP	SILTY SAND (SM)
⊙	G-102	75.5	49	34	15	SILTSTONE
◇	G-103	25.5	44	25	19	LEAN CLAY (CL)
◆	G-103	37.5	45	26	19	LEAN CLAY (CL)
⊕	G-103	40.5	38	23	15	SANDY LEAN CLAY (CL)
⊗	G-103	49.5	44	21	23	CLAYEY SAND (SC)
☆	G-103	67.5	41	34	7	SILTSTONE
⊗	G-104	15.5	44	17	27	LEAN CLAY with SAND (CL)
⊙	G-104	35.5	43	19	24	LEAN CLAY (CL)
⊕	G-104	40.5	38	15	23	SANDY LEAN CLAY (CL)
⊙	G-104	45.5	46	23	23	LEAN CLAY with SAND (CL)
×	G-104	56.5	36	16	20	SANDY LEAN CLAY (CL)
■	G-104	90.5	47	35	12	SILTSTONE

Laboratory Test Method: ASTM D 4318

"NP" indicates Non-Plastic

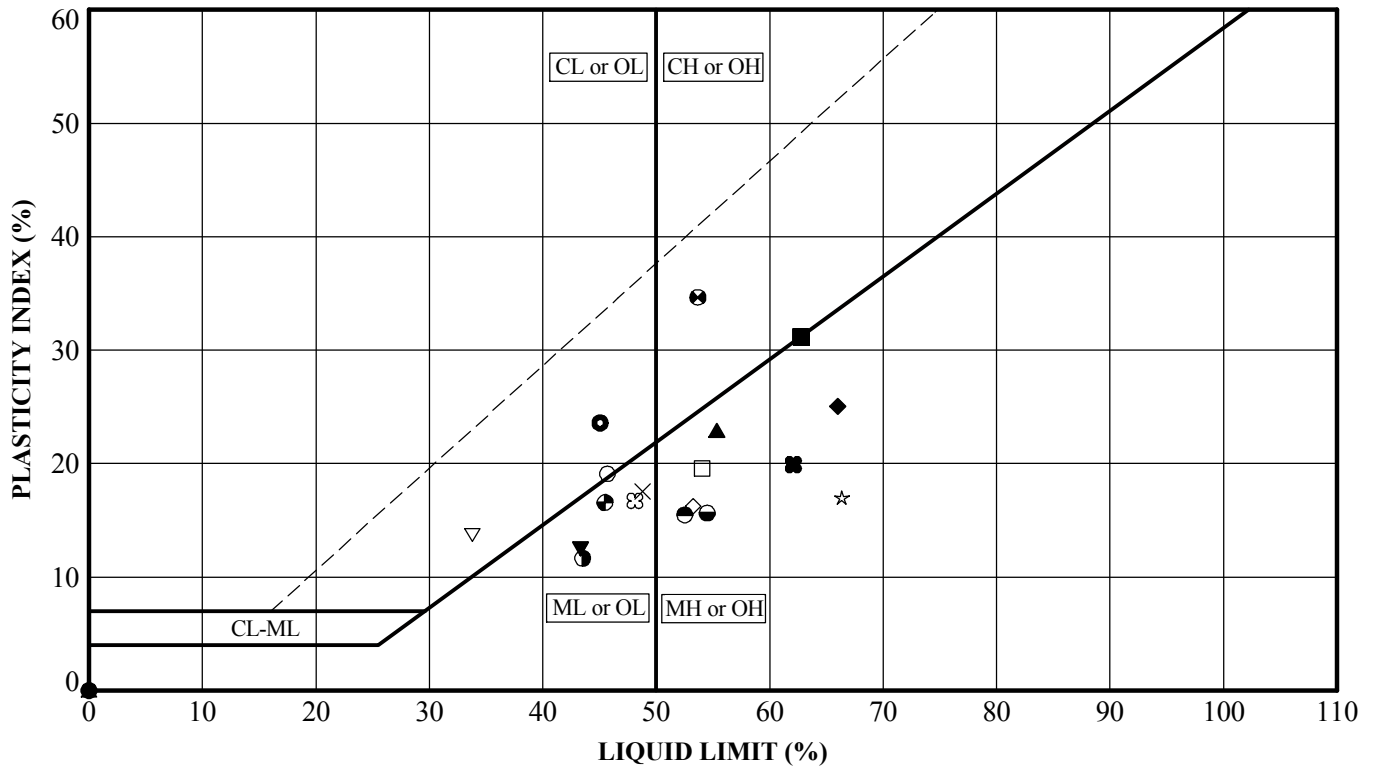
Prepared/Date: JF 7/28/2011
Checked/Date: LT 7/28/2011

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ATTERBERG LIMITS TEST RESULTS
Project No.: 4953-10-1561
Figure: F-7.2.1

MACTEC LA - ATTERBERG LIMITS S:\70131 GEOTECH\GINT\WLIBRARY_MACTEC\JUNE2011.GLB
 G:\PROJECT_DIRECTORIES\4953\2010\101561 METRO WESTSIDE EXTENSION\6.2.3.1 GEOTECHNICAL DESIGN\3.2 ALL FIELD NOTES\GINT\LOG\4953-10-1561 MTA WESTSIDE SUBWAY EXTENSION.GPJ 12/4/11



SYMBOL	BORING	DEPTH (ft)	LL (%)	PL (%)	PI (%)	CLASSIFICATION
○	G-104	100.5	46	27	19	SILTSTONE
●	G-105	20.5	NP	NP	NP	SANDY SILT (ML)
△	G-105	55.5	NP	NP	NP	SILTY SAND (SM)
▲	G-105	80.5	55	32	23	SILTSTONE
□	G-105	95.5	54	34	20	SILTSTONE
■	G-106	31.5	63	32	31	FAT CLAY (CH)
▽	G-106	37.5	34	20	14	CLAYEY SAND (SC)
▼	G-106	43.5	43	31	12	SILT with SAND (ML)
⊙	G-106	55.5	45	21	24	CLAYEY SAND (SC)
◇	G-106	81.5	53	37	16	SILTSTONE
◆	G-107	30.5	66	41	25	ELASTIC SILT (MH)
⊗	G-107	50.5	54	19	35	FAT CLAY (CH)
⊕	G-107	75.5	45	29	16	SILT (ML)
☆	G-107	85.0	66	49	17	SILTSTONE
⊗	G-107	100.5	48	31	17	SILTSTONE
⊕	G-108	70.5	53	37	16	ELASTIC SILT (MH)
⊕	G-108	90.5	54	39	15	ELASTIC SILT (MH)
⊕	G-108	105.5	44	32	12	SILTSTONE
×	G-109	35.5	49	31	18	SILT (ML)
■	G-109	75.5	62	42	20	SILTSTONE

Laboratory Test Method: ASTM D 4318

"NP" indicates Non-Plastic

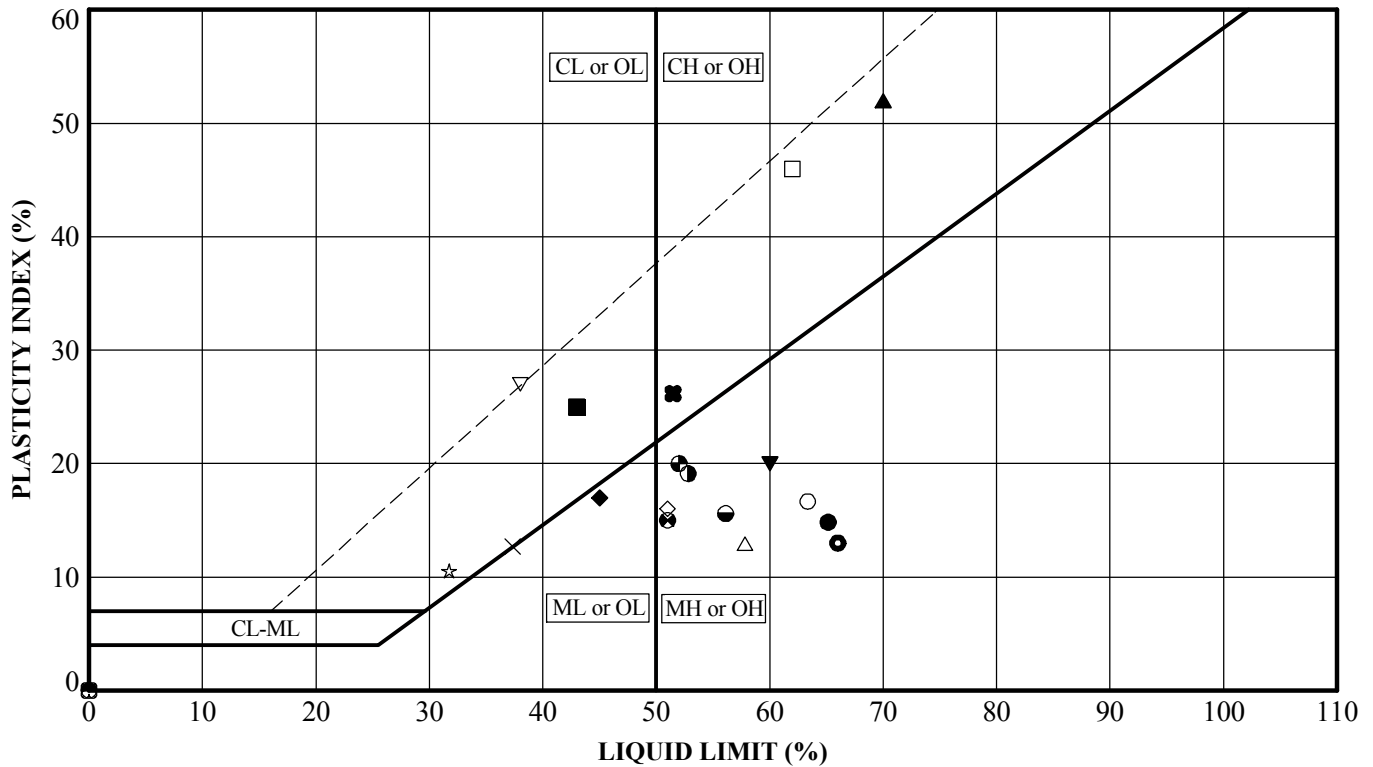
Prepared/Date: JF 8/31/2011

Checked/Date: LT 9/6/2011

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ATTERBERG LIMITS TEST RESULTS
Project No.: 4953-10-1561
Figure: F-7.2.2



SYMBOL	BORING	DEPTH (ft)	LL (%)	PL (%)	PI (%)	CLASSIFICATION
○	G-109	90.5	63	47	16	SILTSTONE
●	G-109	110.5	65	50	15	SILTSTONE
△	G-109	130.5	58	45	13	SILTSTONE
▲	G-110	15.5	70	18	52	FAT CLAY with SAND (CH)
□	G-110	35.5	62	16	46	FAT CLAY with SAND (CH)
■	G-110	45.5	43	18	25	SANDY LEAN CLAY (CL)
▽	G-110	50.5	38	11	27	SANDY LEAN CLAY (CL)
▼	G-110	75.5	60	40	20	SILTSTONE
⊙	G-110	85.5	66	53	13	SILTSTONE
◇	G-110	95.5	51	35	16	SILTSTONE
◆	G-110	105.5	45	28	17	SILTSTONE
⊕	G-110	115.5	51	36	15	SILTSTONE
⊗	G-110	122.0	52	32	20	SILTSTONE
☆	G-111	50.5	32	21	11	SANDY LEAN CLAY (CL)
⊗	G-111	65.5	NP	NP	NP	POORLY GRADED SAND with SILT (SP-SM)
⊙	G-111	80.5	NP	NP	NP	SILT (ML)
⊕	G-111	85.5	56	41	15	SILTSTONE
⊗	G-111	105.5	53	34	19	SILTSTONE
×	G-112	40.5	37	25	12	SILTY SAND (SM)
■	G-112	45.5	51	25	26	FAT CLAY (CH)

Laboratory Test Method: ASTM D 4318

"NP" indicates Non-Plastic

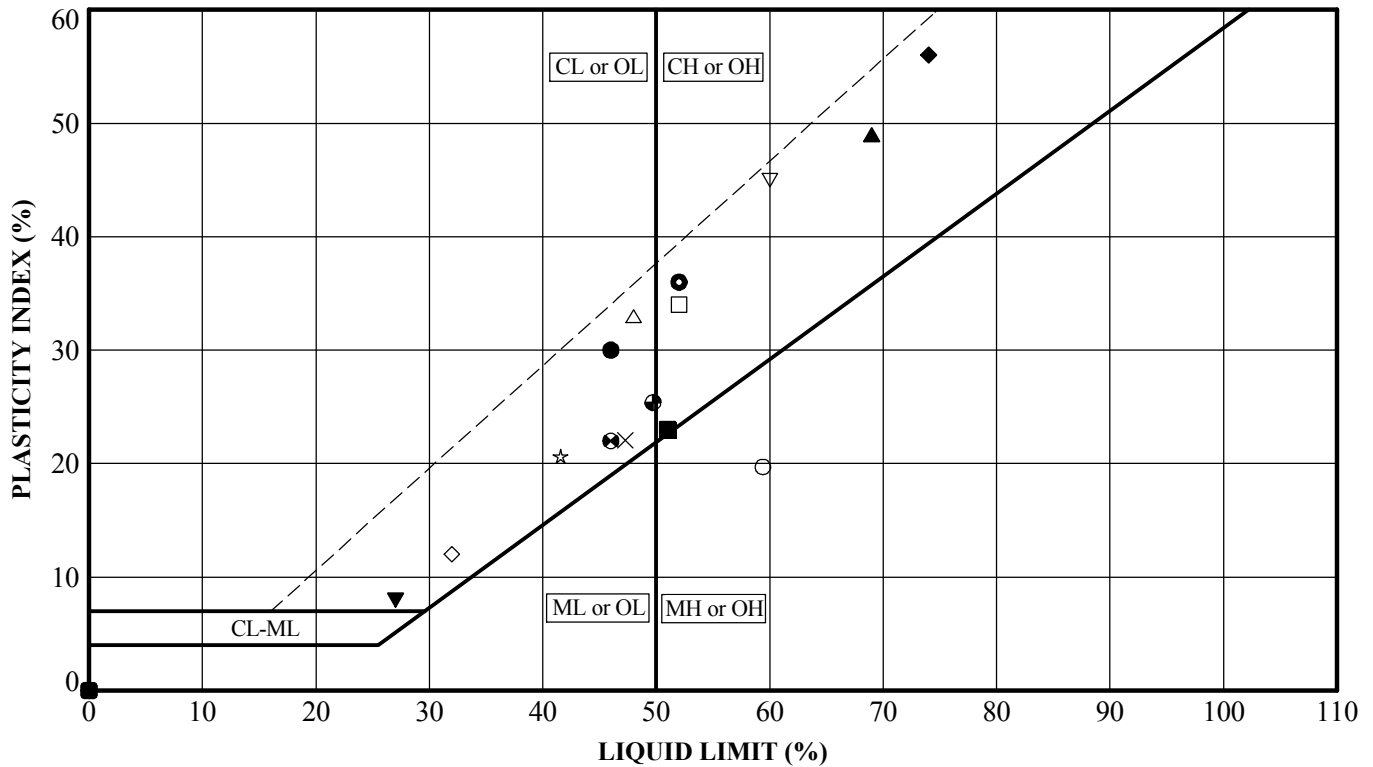
Prepared/Date: JF 9/2/2011
 Checked/Date: LT 9/7/2011

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ATTERBERG LIMITS TEST RESULTS
 Project No.: 4953-10-1561
 Figure: F-7.2.3

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SYMBOL	BORING	DEPTH (ft)	LL (%)	PL (%)	PI (%)	CLASSIFICATION
○	G-112	110.5	59	40	19	SILTSTONE
●	G-113	6.5	46	16	30	SANDY LEAN CLAY (CL)
△	G-113	30.5	48	15	33	LEAN CLAY with SAND (CL)
▲	G-113	40.5	69	20	49	FAT CLAY (CH)
□	G-113	50.5	52	18	34	FAT CLAY with SAND (CH)
■	G-113	90.5	51	28	23	CLAYEY SILTSTONE
▽	G-114	19.5	60	15	45	FAT CLAY with SAND (CH)
▼	G-114	39.5	27	19	8	CLAYEY SAND (SC)
⊙	G-114	48.0	52	16	36	SANDY FAT CLAY (CH)
◇	G-114	51.5	32	20	12	SANDY LEAN CLAY (CL)
◆	G-114	57.5	74	18	56	FAT CLAY with SAND (CH)
⊗	G-114	92.5	46	24	22	CLAYEY SILTSTONE
⊕	G-116	40.5	50	24	26	CLAYEY GRAVEL with SAND (GC)
☆	G-116	45.5	42	21	21	CLAYEY SAND with GRAVEL (SC)
⊗	G-116	50.5	NP	NP	NP	SANDY SILT (ML)
⊕	G-118	37.5	NP	NP	NP	SANDY SILT (ML)
⊕	G-118	40.5	NP	NP	NP	SANDY SILT (ML)
⊕	G-118	52.5	NP	NP	NP	POORLY GRADED SAND with SILT (SP-SM)
×	G-119	10.5	47	25	22	LEAN CLAY (CL)
■	G-119	35.5	NP	NP	NP	SILTY SAND (SM)

Laboratory Test Method: ASTM D 4318

"NP" indicates Non-Plastic

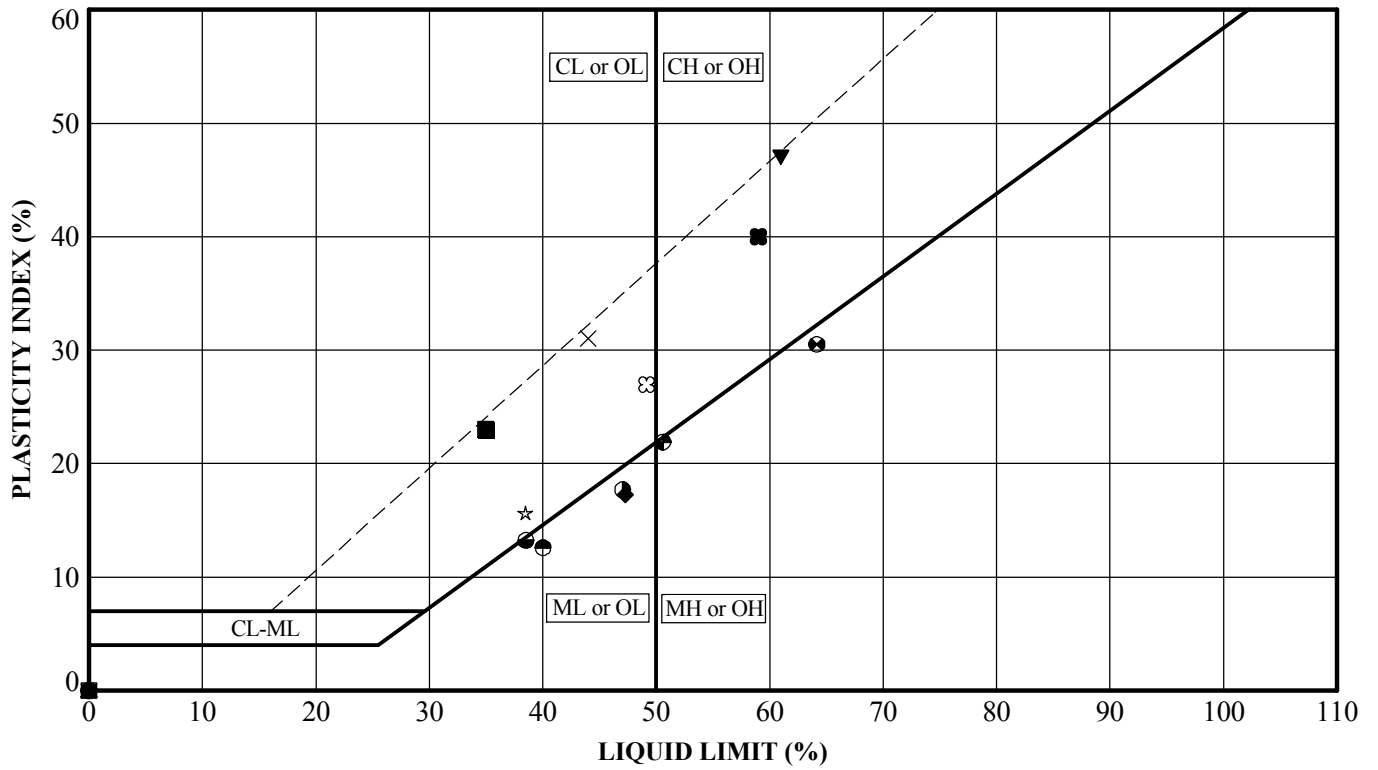
Prepared/Date: JF 9/6/2011
Checked/Date: LT 9/9/2011

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ATTERBERG LIMITS TEST RESULTS
Project No.: 4953-10-1561
Figure: F-7.2.4

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SYMBOL	BORING	DEPTH (ft)	LL (%)	PL (%)	PI (%)	CLASSIFICATION
○	G-119	75.5	NP	NP	NP	SILTSTONE
●	G-119	95.5	NP	NP	NP	SILTSTONE
△	G-119	105.5	NP	NP	NP	SANDY SILTSTONE
▲	G-121	20.5	NP	NP	NP	SANDY SILT (ML)
□	G-121	80.5	NP	NP	NP	SILT with SAND (ML)
■	G-123	20.5	35	12	23	CLAYEY SAND (SC)
▽	G-123	94.5	NP	NP	NP	SILTSTONE
▼	G-124	20.5	61	14	47	FAT CLAY (CH)
⊙	G-124	50.5	NP	NP	NP	SILTY SAND (SM)
◇	G-124	85.5	NP	NP	NP	WELL GRADED SAND with SILT (SW-SM)
◆	G-125	47.5	47	30	17	SANDY SILT (ML)
⊕	G-125	65.5	64	34	30	ELASTIC SILT (MH)
⊖	G-126	35.5	51	29	22	ELASTIC SILT (MH)
☆	G-126	45.5	38	23	15	CLAYEY SAND (SC)
⊗	G-126	80.5	49	22	27	CLAYEY SAND (SC)
⊙	G-127	40.5	40	27	13	SANDY SILT (ML)
⊖	G-127	55.5	39	25	14	SANDY LEAN CLAY (CL)
⊙	G-127	90.5	47	29	18	SILTY SAND (SM)
×	G-128	5.5	44	13	31	SANDY LEAN CLAY (CL)
■	G-128	15.5	59	19	40	FAT CLAY (CH)

Laboratory Test Method: ASTM D 4318

"NP" indicates Non-Plastic

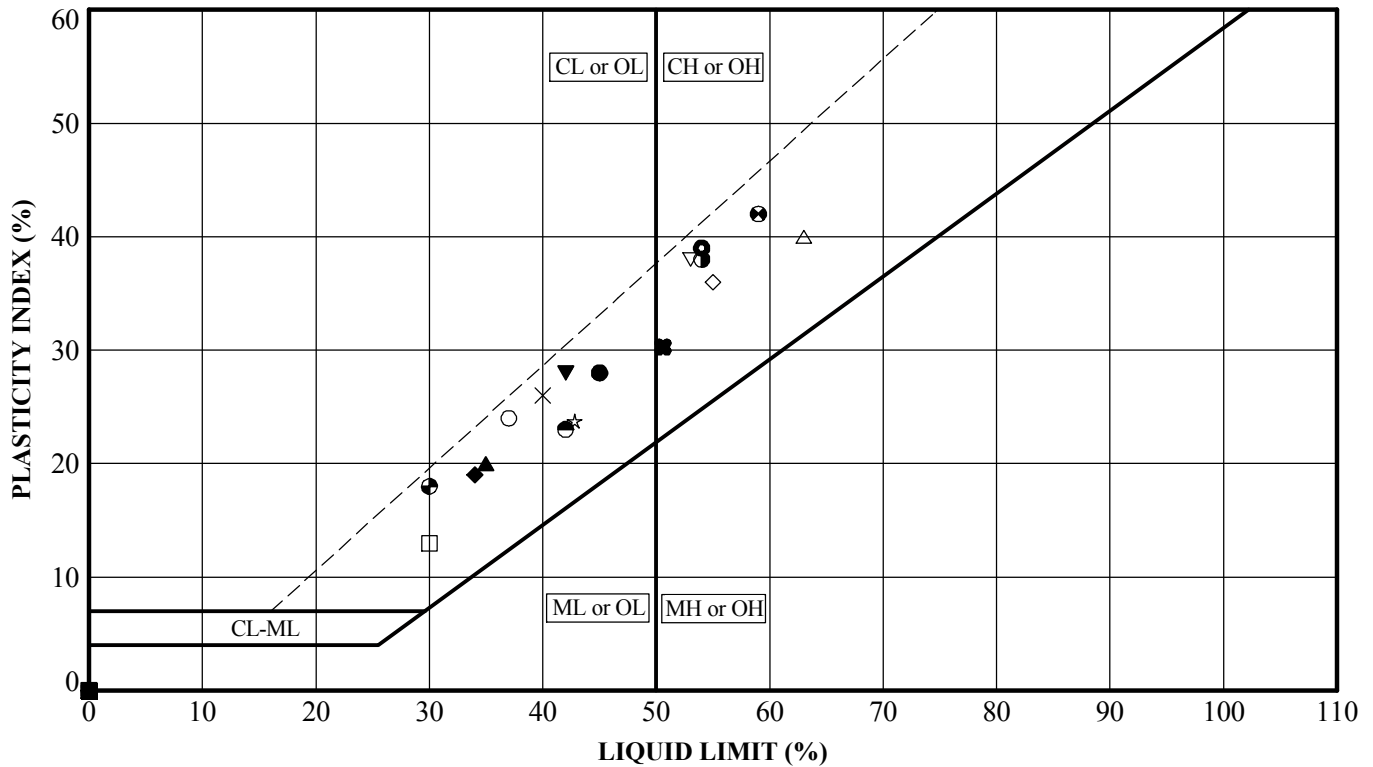
Prepared/Date: JF 9/9/2011
Checked/Date: LT 9/13/2011

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ATTERBERG LIMITS TEST RESULTS
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Figure: F-7.2.5

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SYMBOL	BORING	DEPTH (ft)	LL (%)	PL (%)	PI (%)	CLASSIFICATION
○	G-128	25.5	37	13	24	LEAN CLAY with SAND (CL)
●	G-128	30.5	45	17	28	LEAN CLAY with SAND (CL)
△	G-128	35.5	63	23	40	FAT CLAY (CH)
▲	G-128	45.5	35	15	20	CLAYEY SAND with GRAVEL (SC)
□	G-128	55.5	30	17	13	SANDY LEAN CLAY (CL)
■	G-128	70.5	NP	NP	NP	SANDY SILT (ML)
▽	G-128	80.5	53	15	38	FAT CLAY with SAND (CH)
▼	G-128	85.0	42	14	28	CLAYEY SAND (SC)
⊙	G-128	95.5	54	15	39	FAT CLAY with SAND (CH)
◇	G-128	100.5	55	19	36	FAT CLAY with SAND (CH)
◆	G-129	14.0	34	15	19	LEAN CLAY with SAND (CL)
⊗	G-129	24.0	59	17	42	FAT CLAY (CH)
⊕	G-129	34.0	30	12	18	CLAYEY SAND (SC)
☆	G-129	39.5	43	19	24	SANDY LEAN CLAY (CL)
⊗	G-129	44.0	NP	NP	NP	SILTY SAND with GRAVEL (SM)
⊕	G-129	54.0	42	19	23	SANDY LEAN CLAY (CL)
⊗	G-129	59.5	NP	NP	NP	SILTY SAND (SM)
⊕	G-129	89.5	54	16	38	FAT CLAY with SAND (CH)
×	G-129	104.0	40	14	26	CLAYEY SAND (SC)
■	G-130B	5.5	51	20	31	FAT CLAY with SAND (CH)

Laboratory Test Method: ASTM D 4318

"NP" indicates Non-Plastic

Prepared/Date: YN 7/28/2011

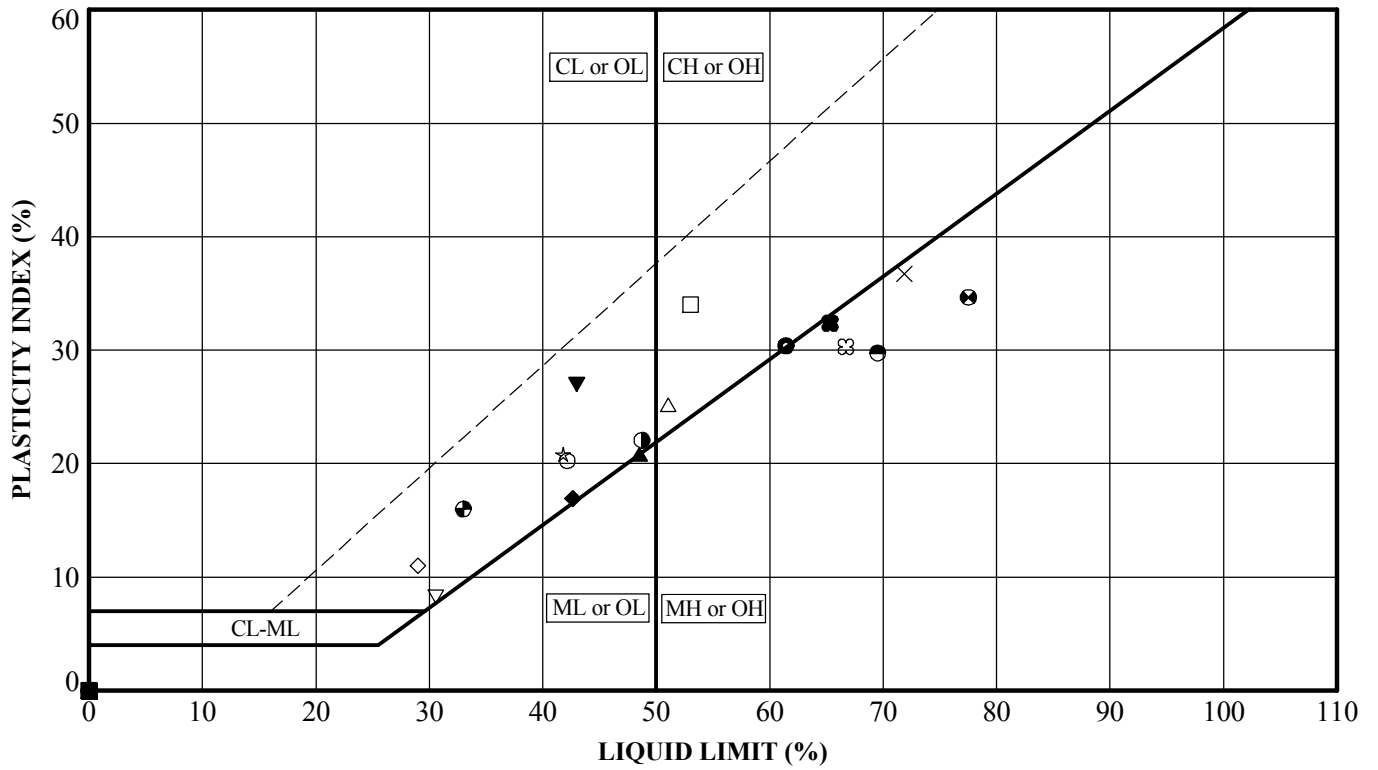
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ATTERBERG LIMITS TEST RESULTS
Project No.: 4953-10-1561
Figure: F-7.2.6

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SYMBOL	BORING	DEPTH (ft)	LL (%)	PL (%)	PI (%)	CLASSIFICATION
○	G-130B	15.5	42	22	20	LEAN CLAY (CL)
●	G-130B	25.5	NP	NP	NP	SILTY SAND (SM)
△	G-130B	50.5	51	26	25	FAT CLAY (CH)
▲	G-130B	60.5	48	28	20	SANDY SILT (ML)
□	G-130B	70.5	53	19	34	FAT CLAY with SAND (CH)
■	G-130B	75.5	NP	NP	NP	SILT (ML)
▽	G-131	10.5	31	22	9	CLAYEY SAND (SC)
▼	G-131	25.5	43	16	27	LEAN CLAY (CL)
⊙	G-131	35.5	61	31	30	FAT CLAY (CH)
◇	G-131	45.5	29	18	11	SANDY LEAN CLAY (CL)
◆	G-131	65.5	43	26	17	CLAYEY SAND with GRAVEL (SC)
⊗	G-131	105.5	78	43	35	ELASTIC SILT (MH)
⊕	G-132	15.5	33	17	16	LEAN CLAY (CL)
☆	G-132	25.5	42	21	21	LEAN CLAY with SAND (CL)
⊗	G-132	35.5	67	36	31	ELASTIC SILT (MH)
⊕	G-132	45.5	70	40	30	ELASTIC SILT (MH)
⊖	G-132	60.5	NP	NP	NP	SILTY SAND (SM)
⊙	G-132	70.5	49	27	22	LEAN CLAY (CL)
×	G-133	47.5	72	35	37	ELASTIC SILT (MH)
■	G-133	50.5	65	33	32	ELASTIC SILT (MH)

Laboratory Test Method: ASTM D 4318

"NP" indicates Non-Plastic

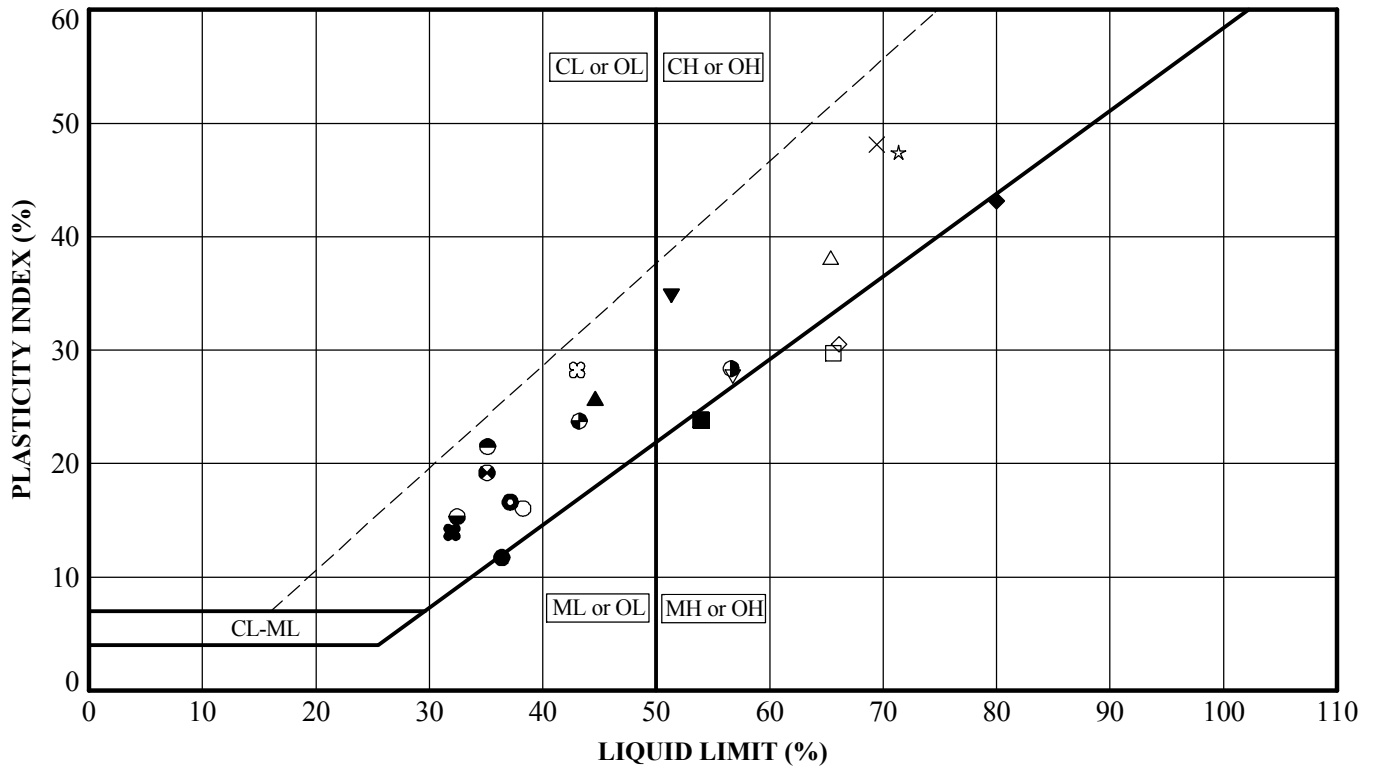
Prepared/Date: JF 6/27/2011
Checked/Date: LT 9/14/2011

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ATTERBERG LIMITS TEST RESULTS
Project No.: 4953-10-1561
Figure: F-7.2.7

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SYMBOL	BORING	DEPTH (ft)	LL (%)	PL (%)	PI (%)	CLASSIFICATION
○	G-133	65.5	38	22	16	SANDY LEAN CLAY (CL)
●	G-133	77.5	36	25	11	SANDY SILT (ML)
△	G-135	9.5	65	27	38	SANDY FAT CLAY (CH)
▲	G-135	39.5	45	19	26	LEAN CLAY with SAND (CL)
□	G-135	50.0	66	36	30	ELASTIC SILT (MH)
■	G-135	56.0	54	30	24	ELASTIC SILT (MH)
▽	G-135	65.5	57	29	28	FAT CLAY with SAND (CH)
▼	G-135	74.0	51	17	34	FAT CLAY with SAND (CH)
⊙	G-135	83.5	37	21	16	SANDY LEAN CLAY (CL)
◇	G-135	110.0	66	36	30	ELASTIC SILT (MH)
◆	G-135	119.0	80	37	43	ELASTIC SILT (MH)
⊗	G-136	25.5	35	16	19	LEAN CLAY (CL)
⊕	G-136	55.5	43	19	24	LEAN CLAY (CL)
☆	G-136	65.5	71	24	47	FAT CLAY (CH)
⊗	G-136	75.5	43	15	28	LEAN CLAY with SAND (CL)
⊖	G-136	85.5	35	14	21	LEAN CLAY (CL)
⊗	G-137	49.0	32	17	15	CLAYEY SAND (SC)
⊕	G-137	64.5	57	28	29	SANDY FAT CLAY (CH)
×	G-137	70.5	69	21	48	FAT CLAY (CH)
■	G-137	76.5	32	18	14	SANDY LEAN CLAY (CL)

Laboratory Test Method: ASTM D 4318

"NP" indicates Non-Plastic

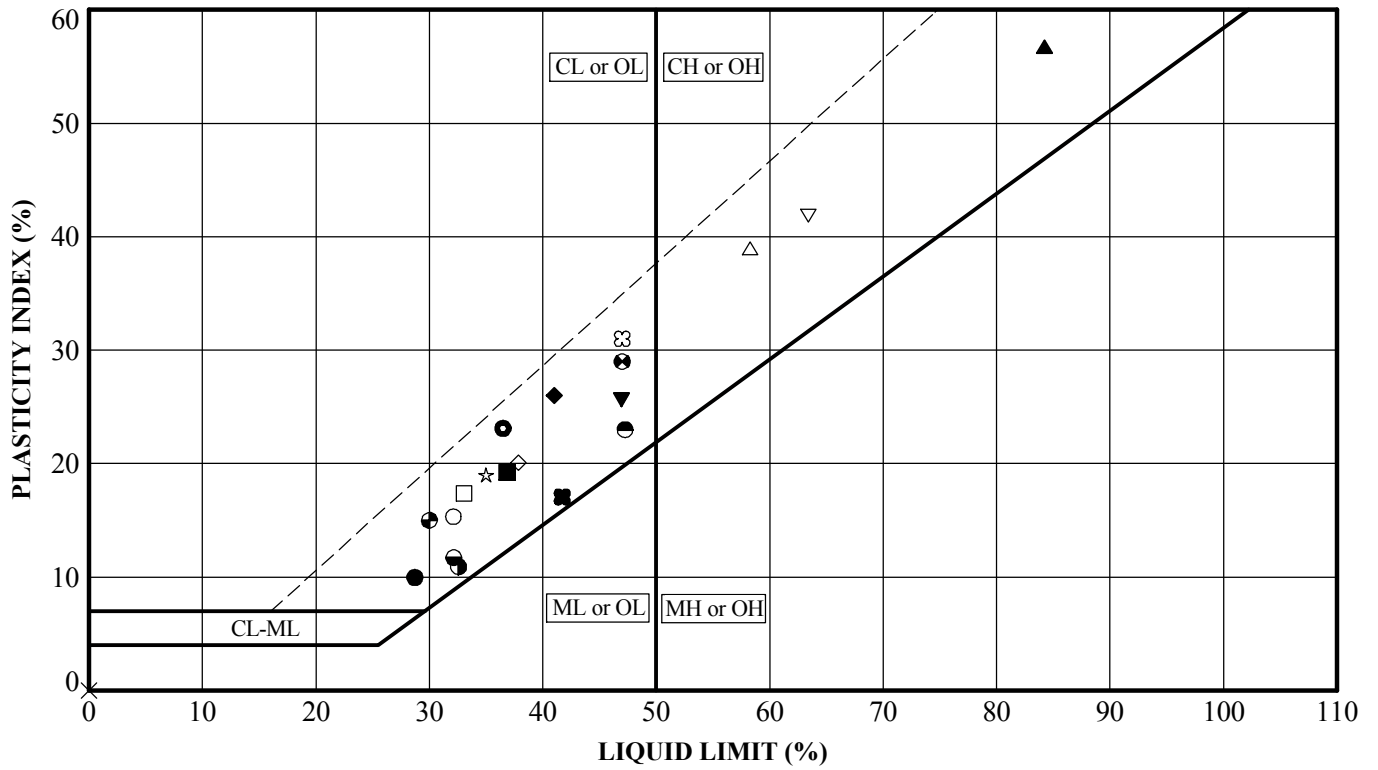
Prepared/Date: JF 6/28/2011
 Checked/Date: LT 8/15/2011

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ATTERBERG LIMITS TEST RESULTS
 Project No.: 4953-10-1561
 Figure: F-7.2.8

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SYMBOL	BORING	DEPTH (ft)	LL (%)	PL (%)	PI (%)	CLASSIFICATION
○	G-137	82.5	32	17	15	SANDY LEAN CLAY (CL)
●	G-137	91.0	29	19	10	CLAYEY SAND with GRAVEL (SC)
△	G-137	100.5	58	19	39	FAT CLAY (CH)
▲	G-137	109.0	84	27	57	FAT CLAY (CH)
□	G-138	30.5	33	16	17	CLAYEY SAND (SC)
■	G-138	55.5	37	18	19	SANDY LEAN CLAY (CL)
▽	G-138	65.5	63	22	41	FAT CLAY with SAND (CH)
▼	G-138	75.5	47	21	26	SANDY LEAN CLAY (CL)
⊙	G-138	85.5	36	13	23	SANDY LEAN CLAY (CL)
◇	G-138	100.5	38	18	20	LEAN CLAY with SAND (CL)
◆	G-139	55.5	41	15	26	LEAN CLAY (CL)
⊗	G-139	65.5	47	18	29	LEAN CLAY (CL)
⊕	G-139	75.5	30	15	15	CLAYEY SAND (SC)
☆	G-139	85.5	35	16	19	CLAYEY SAND (SC)
⊘	G-139	100.5	47	16	31	LEAN CLAY (CL)
⊖	G-140	62.5	47	24	23	LEAN CLAY with SAND (CL)
⊗	G-140	68.5	32	20	12	LEAN CLAY with SAND (CL)
⊙	G-140	74.5	33	22	11	CLAYEY SAND (SC)
×	G-140	80.5	NP	NP	NP	SILTY SAND (SM)
■	G-140	89.5	42	25	17	LEAN CLAY with SAND (CL)

Laboratory Test Method: ASTM D 4318

"NP" indicates Non-Plastic

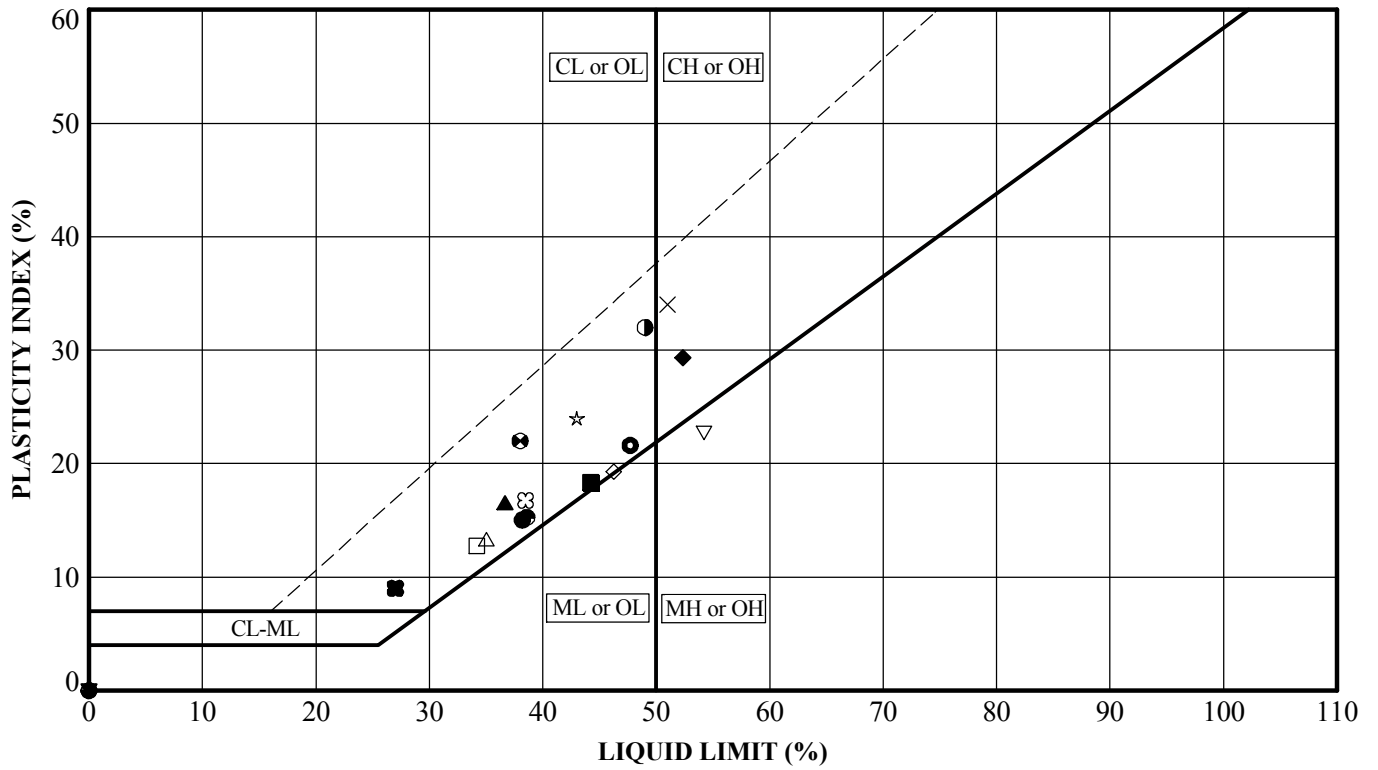
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ATTERBERG LIMITS TEST RESULTS
 Project No.: 4953-10-1561
 Figure: F-7.2.9

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SYMBOL	BORING	DEPTH (ft)	LL (%)	PL (%)	PI (%)	CLASSIFICATION
○	G-140	95.5	NP	NP	NP	SANDY SILT (ML)
●	G-141	60.5	38	23	15	LEAN CLAY with SAND (CL)
△	G-141	70.5	35	22	13	SANDY LEAN CLAY (CL)
▲	G-141	80.5	37	20	17	LEAN CLAY with SAND (CL)
□	G-141	85.5	34	21	13	LEAN CLAY with SAND (CL)
■	G-142	40.5	44	26	18	LEAN CLAY (CL)
▽	G-142	45.5	54	31	23	ELASTIC SILT (MH)
▼	G-142	55.5	NP	NP	NP	SILTY SAND with GRAVEL (SM)
⊙	G-142	65.5	48	26	22	LEAN CLAY with SAND (CL)
◇	G-142	95.5	46	27	19	SANDY CLAY (CL)
◆	G-143	5.5	52	23	29	FAT CLAY (CH)
⊗	G-143	15.5	38	16	22	CLAYEY SAND (SC)
⊕	G-143	25.5	NP	NP	NP	SILTY SAND (SM)
☆	G-143	45.5	43	19	24	LEAN CLAY (CL)
⊘	G-143	55.5	38	22	16	LEAN CLAY with SAND (CL)
⊖	G-143	65.5	39	23	16	CLAYEY SAND with GRAVEL (SC)
⊗	G-143	85.5	NP	NP	NP	SILTY SAND (SM)
⊙	G-144	10.5	49	17	32	LEAN CLAY with SAND (CL)
×	G-144	15.5	51	17	34	FAT CLAY with SAND (CH)
■	G-144	25.5	27	18	9	CLAYEY GRAVEL with SAND (GC)

Laboratory Test Method: ASTM D 4318

"NP" indicates Non-Plastic

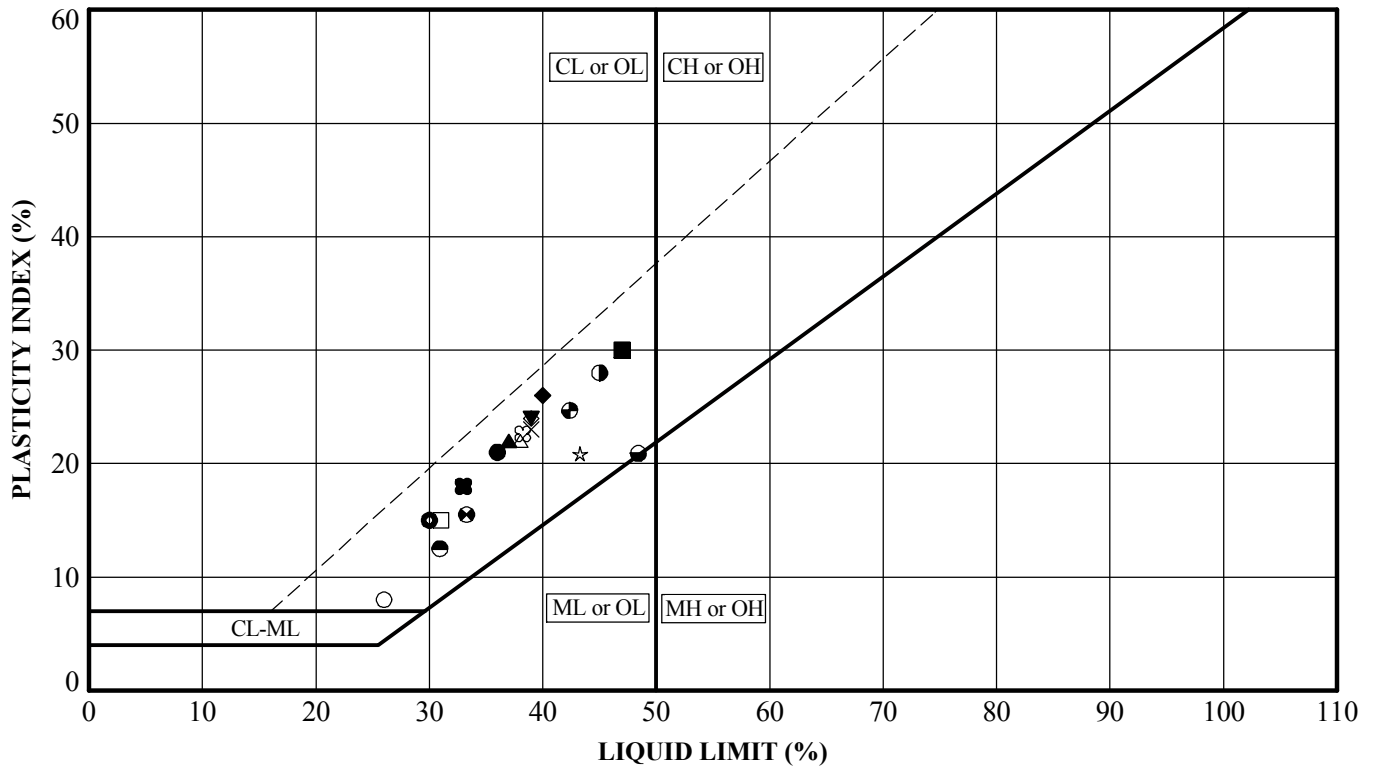
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ATTERBERG LIMITS TEST RESULTS
 Project No.: 4953-10-1561
 Figure: F-7.2.10

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SYMBOL	BORING	DEPTH (ft)	LL (%)	PL (%)	PI (%)	CLASSIFICATION
○	G-144	35.5	26	18	8	LEAN CLAY with SAND (CL)
●	G-144	55.5	36	15	21	LEAN CLAY with SAND (CL)
△	G-144	65.5	38	16	22	LEAN CLAY with SAND (CL)
▲	G-144	75.5	37	15	22	LEAN CLAY with SAND (CL)
□	G-144	95.5	31	16	15	LEAN CLAY with SAND (CL)
■	G-145	10.5	47	17	30	LEAN CLAY with SAND (CL)
▽	G-145	25.5	33	15	18	SANDY LEAN CLAY (CL)
▼	G-145	51.5	39	15	24	LEAN CLAY with SAND (CL)
⊙	G-145	65.5	30	15	15	SANDY LEAN CLAY (CL)
◇	G-145	71.5	39	15	24	SANDY LEAN CLAY (CL)
◆	G-145	110.5	40	14	26	LEAN CLAY with SAND (CL)
⊕	G-146	57.5	33	18	15	SANDY LEAN CLAY (CL)
⊗	G-146	69.5	42	18	24	LEAN CLAY (CL)
☆	G-146	81.5	43	22	21	LEAN CLAY with SAND (CL)
⊗	G-147	75.5	38	16	22	SANDY LEAN CLAY (CL)
⊙	G-147	80.5	31	18	13	SANDY LEAN CLAY (CL)
⊕	G-147	115.5	48	28	20	SILT with SAND (ML)
⊙	G-148	10.5	45	17	28	LEAN CLAY (CL)
×	G-148	20.5	39	16	23	LEAN CLAY with SAND (CL)
■	G-148	40.5	33	15	18	LEAN CLAY (CL)

Laboratory Test Method: ASTM D 4318

"NP" indicates Non-Plastic

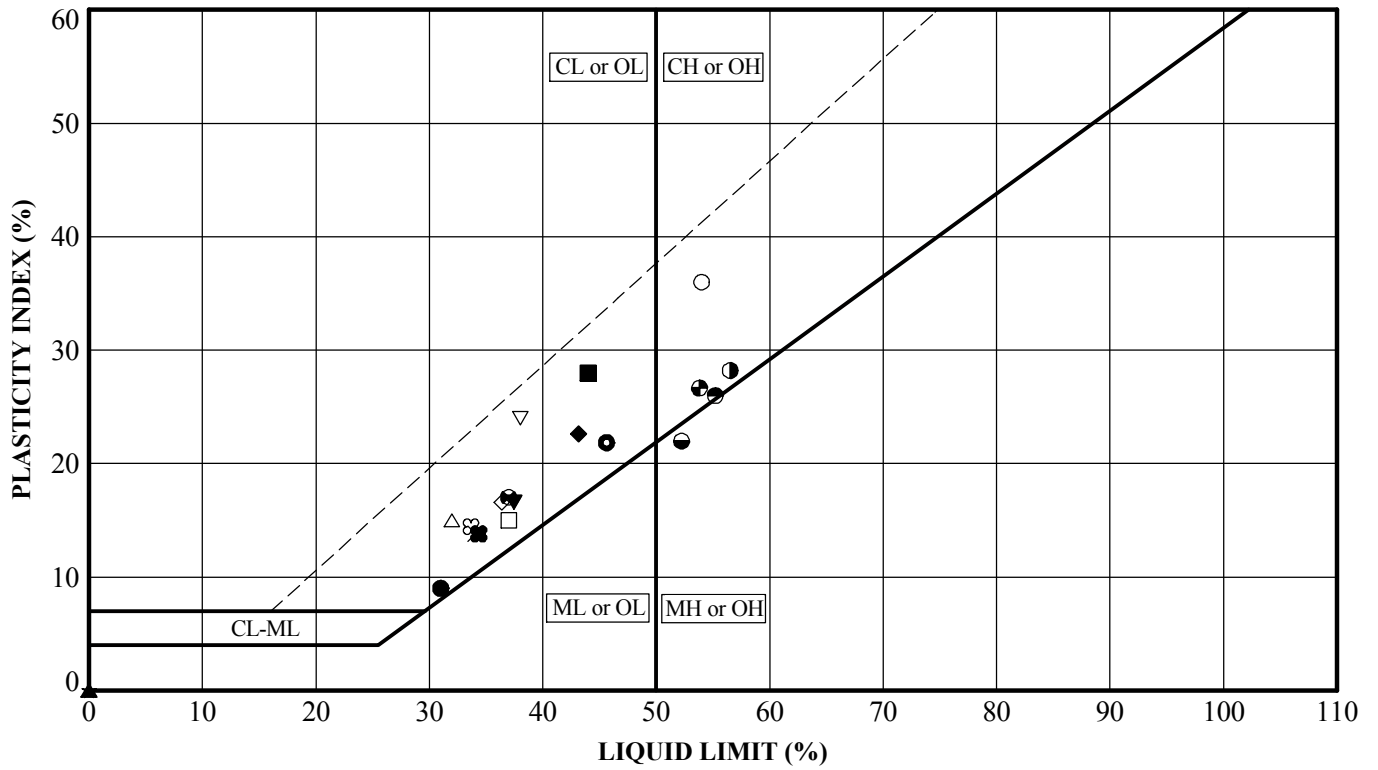
Prepared/Date: YN 8/8/2011
Checked/Date: LT 8/8/2011

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ATTERBERG LIMITS TEST RESULTS
Project No.: 4953-10-1561
Figure: F-7.2.11

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SYMBOL	BORING	DEPTH (ft)	LL (%)	PL (%)	PI (%)	CLASSIFICATION
○	G-148	60.5	54	18	36	FAT CLAY (CH)
●	G-148	70.5	31	22	9	CLAYEY SAND (SC)
△	G-148	75.5	32	17	15	SANDY LEAN CLAY (CL)
▲	G-148	95.5	NP	NP	NP	SILTY SAND (SM)
□	G-148	100.5	37	22	15	SANDY LEAN CLAY (CL)
■	G-148	115.5	44	16	28	SANDY LEAN CLAY (CL)
▽	G-148	140.5	38	14	24	SANDY LEAN CLAY (CL)
▼	G-149	55.5	37	21	16	LEAN CLAY (CL)
⊙	G-149	65.5	46	24	22	LEAN CLAY (CL)
◇	G-149	75.5	36	20	16	LEAN CLAY (CL)
◆	G-150	50.5	43	21	22	LEAN CLAY with SAND (CL)
⊕	G-150	60.5	37	20	17	CLAYEY SAND (SC)
⊗	G-150	75.5	54	27	27	FAT CLAY with SAND (CH)
☆	G-152	53.5	NP	NP	NP	SILT (ML)
⊗	G-152	63.0	34	19	15	SANDY LEAN CLAY (CL)
⊙	G-152	73.5	55	29	26	FAT CLAY (CH)
⊕	G-152	88.5	52	30	22	ELASTIC SILT (MH)
⊙	G-154	38.5	56	28	28	FAT CLAY (CH)
×	G-154	45.5	34	20	14	LEAN CLAY with GRAVEL (CL)
■	G-154	63.5	34	21	13	LEAN CLAY with SAND (CL)

Laboratory Test Method: ASTM D 4318

"NP" indicates Non-Plastic

Prepared/Date: YN 8/10/2011

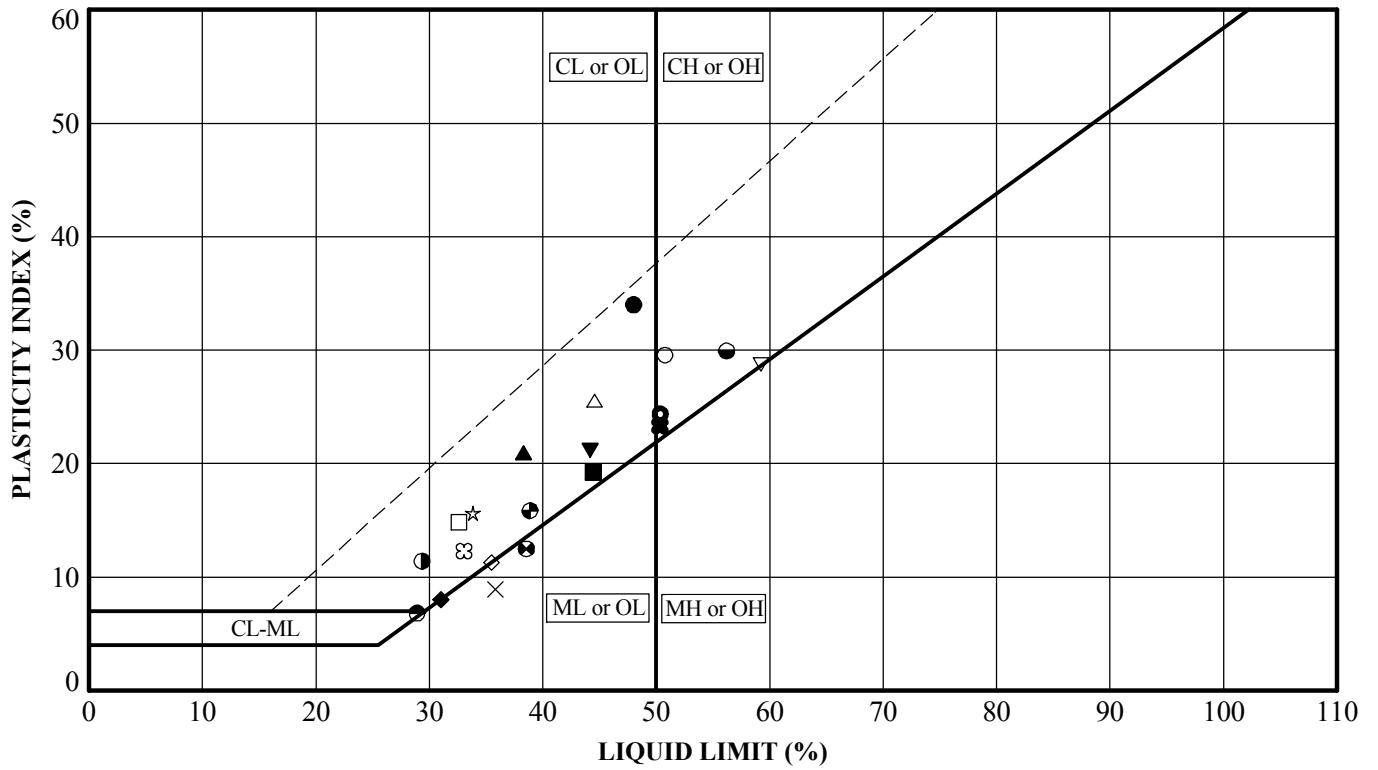
Checked/Date: LT 9/26/2011

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ATTERBERG LIMITS TEST RESULTS
Project No.: 4953-10-1561
Figure: F-7.2.12

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SYMBOL	BORING	DEPTH (ft)	LL (%)	PL (%)	PI (%)	CLASSIFICATION
○	G-156	35.5	51	21	30	FAT CLAY (CH)
●	G-156	38.0	48	14	34	LEAN CLAY with SAND (CL)
△	G-156	40.5	45	19	26	LEAN CLAY with SAND (CL)
▲	G-156	48.0	38	17	21	SANDY LEAN CLAY (CL)
□	G-156	50.5	33	18	15	SANDY LEAN CLAY (CL)
■	G-159	45.5	44	25	19	LEAN CLAY (CL)
▽	G-159	55.5	59	31	28	ELASTIC SILT with SAND (MH)
▼	G-159	70.5	44	23	21	CLAYEY SAND (SC)
⊙	G-159	85.5	50	26	24	SANDY FAT CLAY (CH)
◇	G-161	25.5	35	24	11	LEAN CLAY with SAND (CL)
◆	G-161	50.5	31	23	8	SILTY SAND with GRAVEL (SM)
⊕	G-161	60.5	39	26	13	SILT (ML)
⊖	G-161	75.5	39	23	16	LEAN CLAY with SAND (CL)
☆	G-161	85.5	34	18	16	SANDY LEAN CLAY (CL)
⊗	G-162	20.5	33	21	12	SANDY LEAN CLAY (CL)
⊘	G-162	87.5	29	22	7	SILTY, CLAYEY SAND with GRAVEL (SC-SM)
⊙	G-162	93.5	56	26	30	FAT CLAY with SAND (CH)
⊚	G-164	15.5	29	18	11	SANDY LEAN CLAY (CL)
×	G-164	33.5	36	27	9	SILT (ML)
■	G-164	51.5	50	27	23	FAT CLAY (CH)

Laboratory Test Method: ASTM D 4318

"NP" indicates Non-Plastic

Prepared/Date: JF 7/17/2011
 Checked/Date: LT 7/27/2011

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ATTERBERG LIMITS TEST RESULTS
 Project No.: 4953-10-1561
 Figure: F-7.2.13