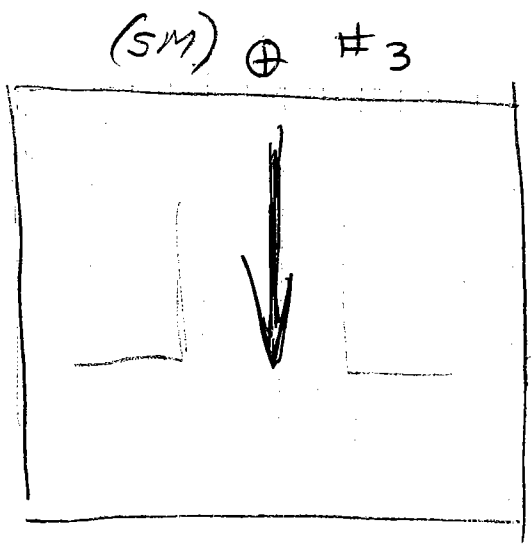


KINNELOA CN
DEBBI'S BASIN

①



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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

SM-SW

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22867

Total Weight of Sample 1.48 lbs.

Project KINNELOA D.B.

grams.

Station

Moisture Content of Fines %.

Location

Date Tested 3-6-69 Plotted By

Boring No. Sample No. 2

Remarks

Sampled By JJB Lab Tested By FK-NR

Intended Use

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED		% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING	
		LBS.	GRAMS			ACTUAL	SPEC. REQ.
3"	76.2						
1 1/2"	38.1						
(1")	(25.4)						
3/4"	19.1	0.04		2.9	2.9		
3/8"	9.52	0.17		12.5	15.4		
No. 4	4.76	0.17	38	12.5	27.9	72.1	
Pan	0	1.10		xxxxx			
Total Fractions		1.48		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		0.98		72.1			
Total Oven-Dry		1.36		100.00			

Moisture Determination of Fines:

Cup No. 60
Dry Weight 162.9 grams
Moisture 12.5 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 88.9 grams.

WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 123.3 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	10.1	8.2	36.1		
16	1.19	19.1	15.5	51.6		
30	0.59	20.2	16.4	68.0		
50	.297	13.1	10.6	78.6		
100	.149	9.8	7.9	86.5		
200	.074	5.0	4.1	90.8	9.2	
Pan	0	0.1				
Total Fractions		77.4				
Total Dry Weight After Wet Sieving		197.7	62.9			
Sieve Loss-Gain		120.2				

Calculated by NR Date 3/14/69
Checked by E.F. Date 3/14/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22867

JOB _____

BORING NO. _____ SAMPLE NO. _____

STATION _____ DEPTH _____ FT.

LOCATION _____

SAMPLED BY _____ DATE _____

FIELD CLASSIFICATION _____ BY _____

PLAS. IND. _____ LIQ. LIM. _____

REMARKS _____

CLASSIFICATION DATA

PERCENT (+) NO. 200 _____ PERCENT (+) NO. 4 _____

%(+)NO. 4/+(+)NO. 200 _____ D₁₀ 0.86 mm

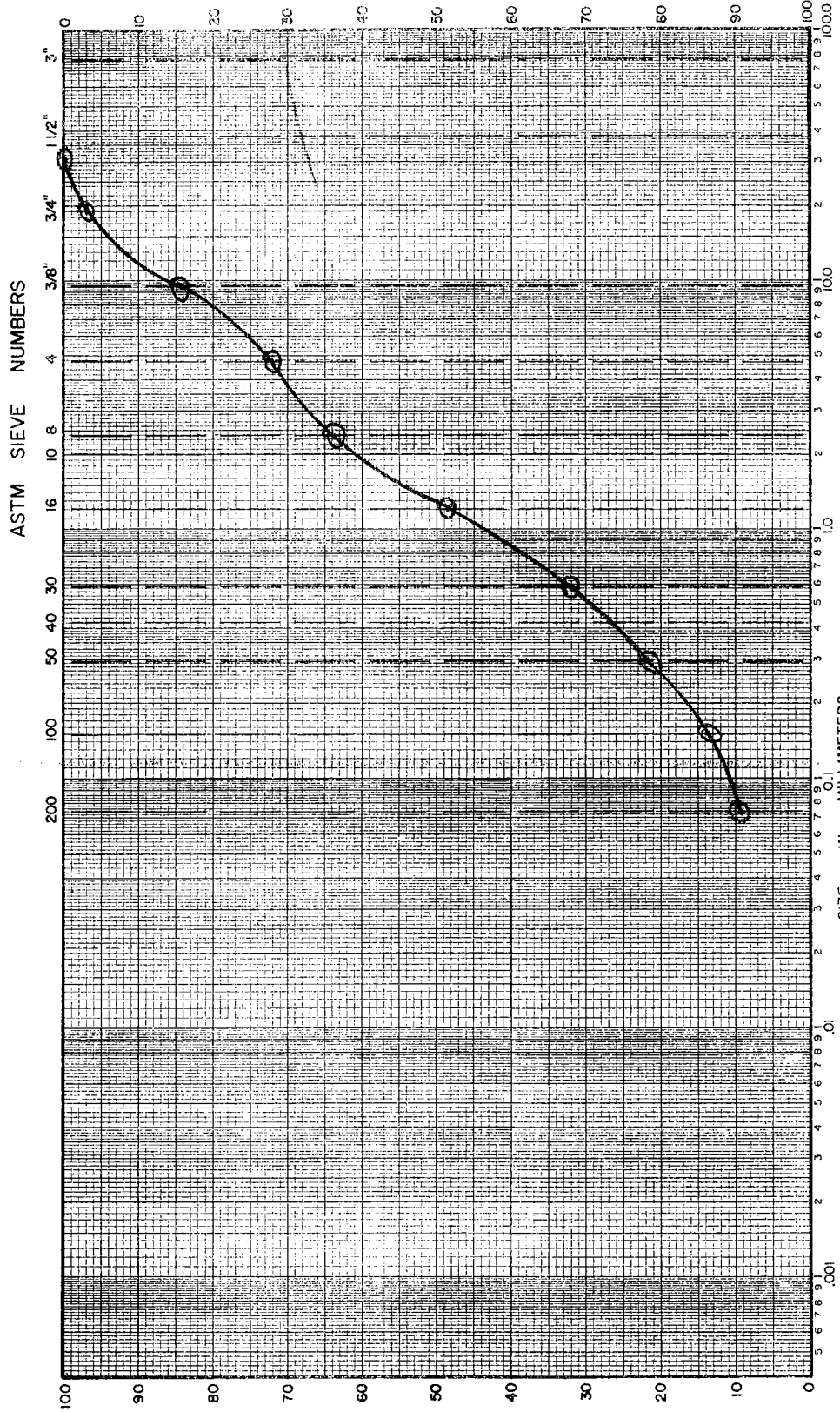
D₃₀ 0.52 mm D₆₀ 1.9 mm

Cu = D₆₀/D₁₀ 2.21 PLOTTED BY AS

Cc = (D₃₀)² / (D₁₀ x D₆₀) 1.7 CHECKED BY RJT

GROUP SYMBOL _____ DATE 2/1/68

NOTE: D_x = PARTICLE DIA. AT X % PASSING



SILT OR CLAY SAND GRAVEL

MEDIUM FINE COARSE COARSE

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

SM-5W

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22870

Total Weight of Sample _____ lbs.

Project KINNELSA D.B.

_____ grams.

Station _____

Moisture Content of Fines _____ %.

Location _____

Date Tested 3-6-69 Plotted By _____

Boring No. _____ Sample No. _____

Remarks NP

Sampled By JJB Lab Tested By FK-NR

Intended Use _____

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED		% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING	
		LBS.	GRAMS			ACTUAL	SPEC. REQ.
3"	76.2						
1 1/2"	38.1						
(1")	(25.4)						
3/4"	19.1						
3/8"	9.52	0.04		2.1	2.1		
No. 4	4.76	0.11	15	5.8	7.9	92.1	
Pan	0	1.98		xxxxx			
Total Fractions		2.13		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.76		92.1			
Total Oven-Dry		1.91		100.00			

Moisture Determination of Fines:

Cup No. 38
Dry Weight 162.9 grams
Moisture 12.5 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 88.9 grams.

WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 96.5 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	4.7	4.9	12.8		
16	1.19	19.2	19.9	32.7		
30	0.59	24.2	25.1	57.8		
50	.297	18.9	19.6	77.4		
100	.149	9.5	29.8	87.2		
200	.074	2.1	2.2	89.7	10.3	
Pan	0	0.4	-			
Total Fractions		79.0				
Total Dry Weight After Wet Sieving		199.1	78.9	81.8		
Sieve Loss-Gain		120.2	+ .1			

Calculated by NR Date 3/7/69
Checked by SHF Date 3/10/69

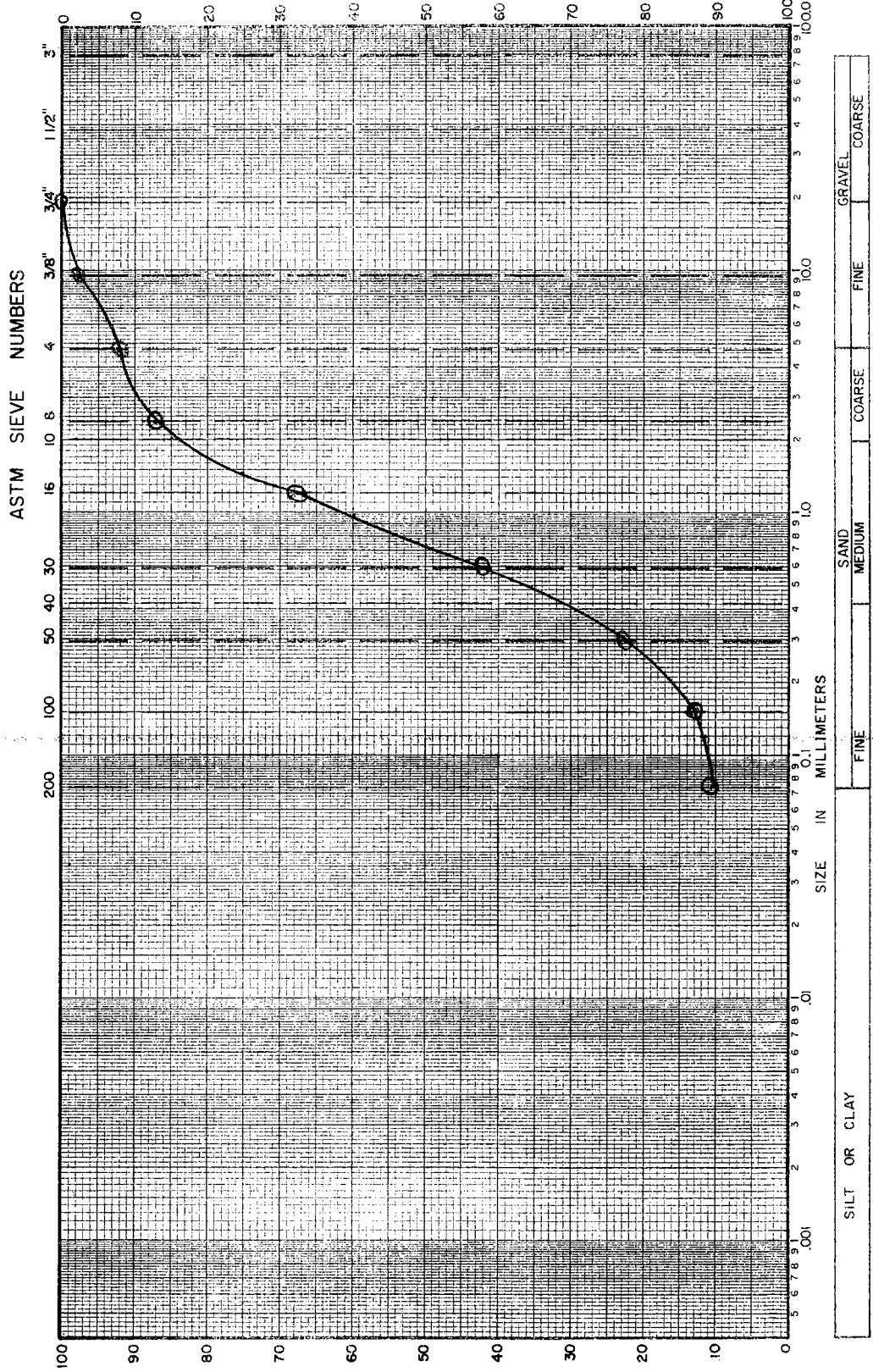
Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division
MECHANICAL ANALYSIS

LAB. SERIAL NO. 22870
 JOB _____
 BORING NO. _____ SAMPLE NO. _____
 STATION _____ DEPTH _____ FT.
 LOCATION _____
 SAMPLED BY _____ DATE _____
 FIELD CLASSIFICATION _____ BY _____
 PLAS. IND. _____ LIQ. LIM. _____
 REMARKS _____

CLASSIFICATION DATA

PERCENT (+) NO. 200 _____ PERCENT (+) NO. 4 _____
 % (+) NO. 4 / % (+) NO. 200 _____ D₁₀ 2.07 mm
 D₃₀ 0.40 mm D₆₀ 0.95 mm
 Cu = D₆₀/D₁₀ _____ PLOTTED BY NR
 Cc = (D₃₀)² / (D₁₀ x D₆₀) _____ CHECKED BY SHF
1.60
1.067
 GROUP SYMBOL _____ DATE 3/10/62
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



SM 28

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22871 Total Weight of Sample 1.51 lbs.
 Project KINNELOA DB _____ grams.
 Station _____ Moisture Content of Fines _____ %.
 Location _____ Date Tested 3/17/69 Plotted By _____
 Boring No. 3 Sample No. _____ Remarks NR
 Sampled By _____ Lab Tested By NR Intended Use _____

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED		% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING	
		LBS.	GRAMS			ACTUAL	SPEC. REQ.
3"	76.2						
1 1/2"	38.1						
(1")	(25.4)						
3/4"	19.1						
3/8"	9.52	.07		5.5	5.5		
No. 4	4.76	.10	17	7.9	13.4	86.6	
Pan	0	1.34		xxxxx			
Total Fractions		1.51		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.10		86.6			
Total Oven-Dry		1.27		100.00			

Moisture Determination of Fines:
 Cup No. 50
 Dry Weight 156.3 grams
 Moisture 21.5 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 82.3 grams.
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 95.1 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	5.0	5.3	18.7		
16	1.19	12.8	13.5	32.2		
30	0.59	11.9	12.5	44.7		
50	.297	9.3	9.8	54.5		
100	.149	8.8	9.2	63.7		
200	.074	7.8	8.2	72.2	27.8	
Pan	0	0.6				
Total Fractions		56.2				
Total Dry Weight After Wet Sieving		176.2	56.0	58.8		
Sieve Loss-Gain		120.2	4.2			

Calculated by NR Date 3/19/69
 Checked by RJT Date 3/20/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Foundation and Testing Division

HYDROMETER ANALYSIS WORK SHEET
ASTM Method D422-54T
(Modified)

LAB. SERIAL NO. 22871
Project _____
Limits _____
Boring _____ Sample _____
Depth _____
Sampled by _____ Date _____
Field Description _____

Initial Weight of Sample Passing
No. 4 Sieve _____ grams
Remarks _____
Set up by AD Date 3/7/69
Lab. Tested by AD Date 3/11/69

Moisture Cup No. _____
Dry Weight, grams _____
Moisture Content, % _____
Oven-Dry Weight
Passing No. 4 grams _____

Type Calgen
Dispersing Volume, cc 125
Agent Strength, % _____
Correction, gm/l = C_d -7.0
Soil Specific Gravity = G 2.65

Percent Passing No. 4 _____; No. 10 _____ = P₁₀
Oven-Dry Weight of total
Sample represented, 951 grams
W = _____ grams

S. G. Correction factor = a _____
Meniscus correction, gm/l = C_m +1.3
Peroxide Treatment Used (Yes) (No) (-5.7)
HYDROMETER NO. _____ JAR NO. _____

113713057C
1138 START

Time	11:39	11:42	11:54	12:42	3:54	8:38	
Temperature, °C	19.9	19.9	19.9	20.1	20.0	19.8	
Temp. correc. Factor = C _t	0	0	0	0	0	0	
Elapsed Time, Minutes = T	1	4	16	64	256	1260	
Hydrometer Reading, gm/l = R	29.5	21.5	17.0	13.5	11.0	9.5	
Effective Depth, cm = L	3.385	3.575	3.67	3.755	3.81	3.84	
Total Correction C = C _d + C _m + C _t	-5.7	-5.7	-5.7	-5.7	-5.7	-5.7	
Corrected Reading R _c = R + C	23.8	15.8	11.3	7.8	5.3	3.8	
K	101365						
Diameter in mm = D	1.0463	1.0244	1.0125	1.00641	1.00325	1.00448	
Percent in Suspension = P	25.0	16.6	11.9	8.2	5.1	4.0	
Percent of (-10) = P'							

$$P = \frac{(R_c) (a) (100)}{(W)}$$

$$P' = \frac{(P) (100)}{(P_{10})}$$

$$D = K \sqrt{\frac{L}{T}}$$

Computed by AD Date 3/19/69
Plotted by _____ Date _____

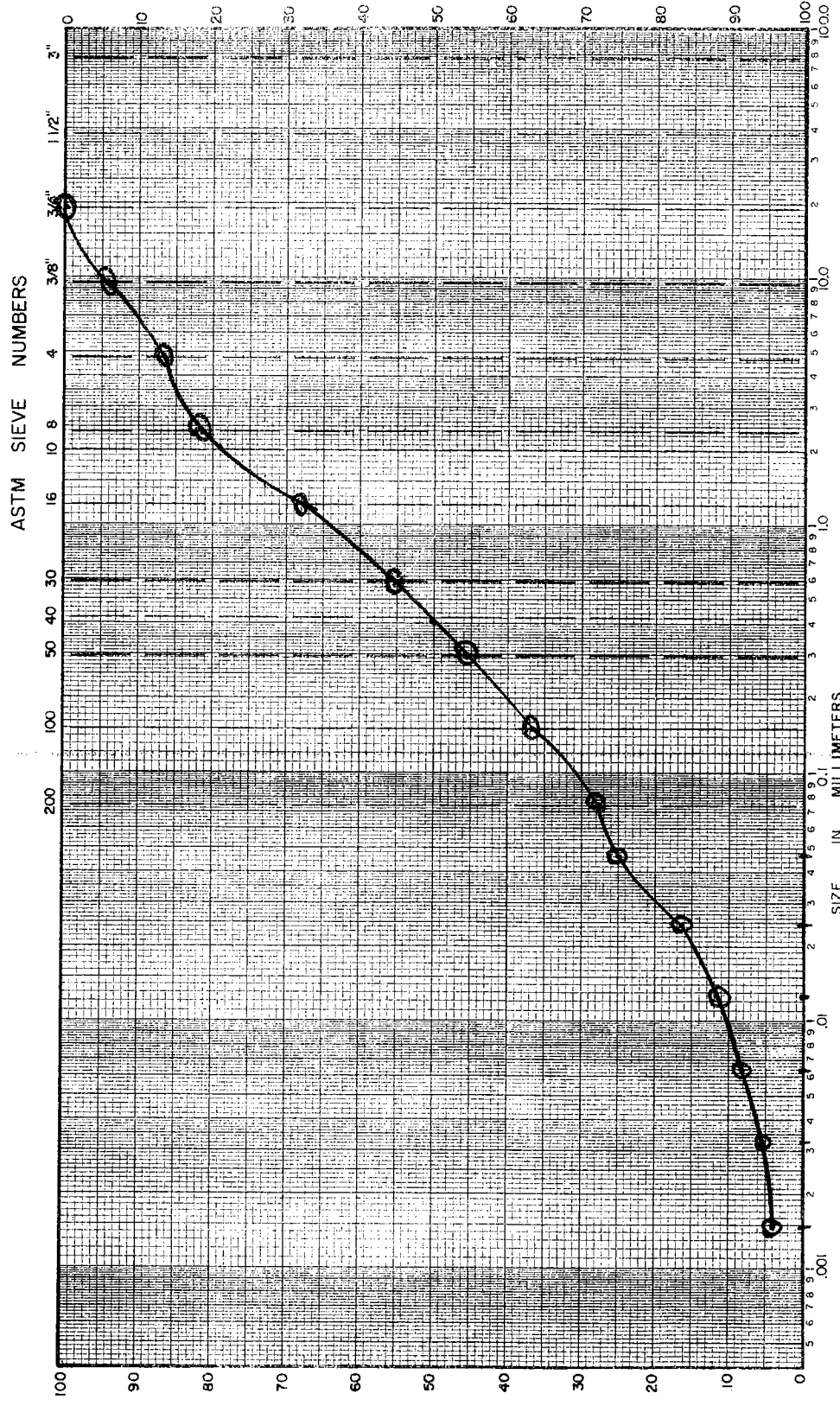
Checked by AD
Date 3/18

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division
MECHANICAL ANALYSIS

LAB. SERIAL NO. 22871
 JOB _____
 BORING NO. _____ SAMPLE NO. _____
 STATION _____ DEPTH _____ FT.
 LOCATION _____
 SAMPLED BY _____ DATE _____
 FIELD CLASSIFICATION _____ BY _____
 PLAS. IND. _____ LIQ. LIM. _____
 REMARKS _____

CLASSIFICATION DATA

PERCENT (+) NO. 200 _____ PERCENT (+) NO. 4 _____
 % (+) NO. 4 / % (+) NO. 200 _____ D₁₀ _____ mm
 D₃₀ _____ mm D₆₀ _____ mm
 C_u = D₆₀/D₁₀ _____ PLOTTED BY IR
 C_c = (D₃₀)² / (D₁₀ x D₆₀) _____ CHECKED BY RII
 GROUP SYMBOL _____ DATE 3/29/62
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



SILT OR CLAY	FINE	SAND MEDIUM	COARSE	FINE	GRAVEL COARSE
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