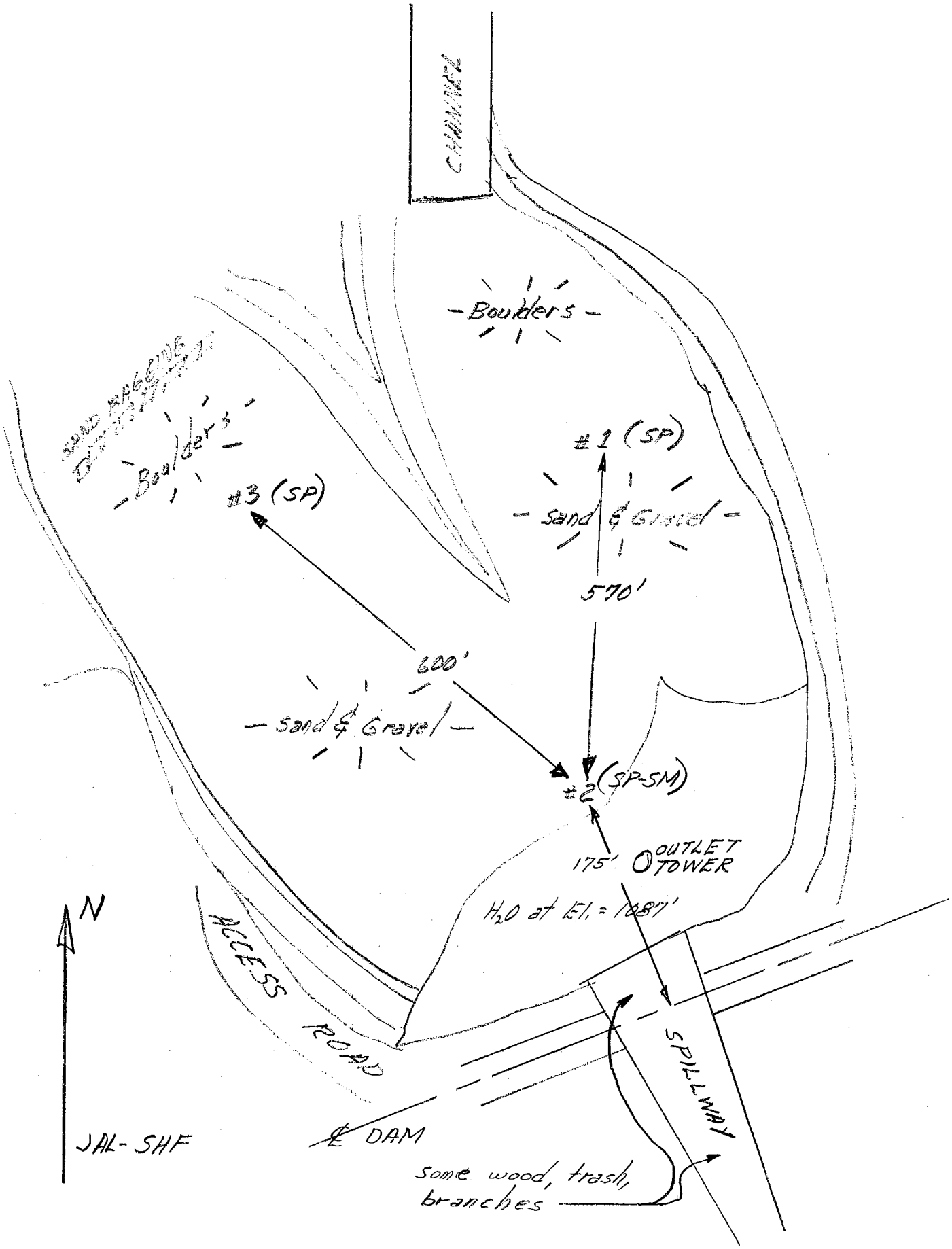
Sierra Madre Villa Debris Basin 2/25/69 From 2/19/69



SP (50)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22880

Total Weight of Sample 1.09 lbs.

Project SIERRA MADRA VILLA DB

grams.

Station

Moisture Content of Fines %.

Location

Date Tested 3/3/69 Plotted By

Boring No. 1 Sample No.

Remarks NP

Sampled By Lab Tested By AR-FK

Intended Use

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED LBS.	RETAINED GRAMS	% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
3"	76.2						
1½"	38.1						
(1")	(25.4)						
3/4"	19.1						
3/8"	9.52	.01		1.0	1.0		
No. 4	4.76	.04	05	3.9	4.9	95.1	
Pan	0	1.04		xxxxx			
Total Fractions		1.09		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		.97		95.1			
Total Oven-Dry		1.02		100.00			

Moisture Determination of Fines:

Cup No. 1

Dry Weight 167.4 grams

Moisture 7.1 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 93.4 grams.

WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 98.2 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
8	2.38	17.9	18.2	23.1		
16	1.19	30.2	30.8	53.9		
30	0.59	25.9	26.4	80.3		
50	.297	10.5	10.7	91.0		
100	.149	4.1	4.2	95.2		
200	.074	2.0	2.0	96.9	3.1	
Pan	0	—				
Total Fractions		90.6				
Total Dry Weight After Wet Sieving 210.5		90.3	92.0			
Sieve Loss-Gain 120.2		+.3				

21 5
1292

Calculated by AR Date 3/3/69

Checked by SHF Date 3/5/69

Note: Cross out sieve numbers not used.

76S523—Cdb 10-68

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22880

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 D_{10} .33 mm

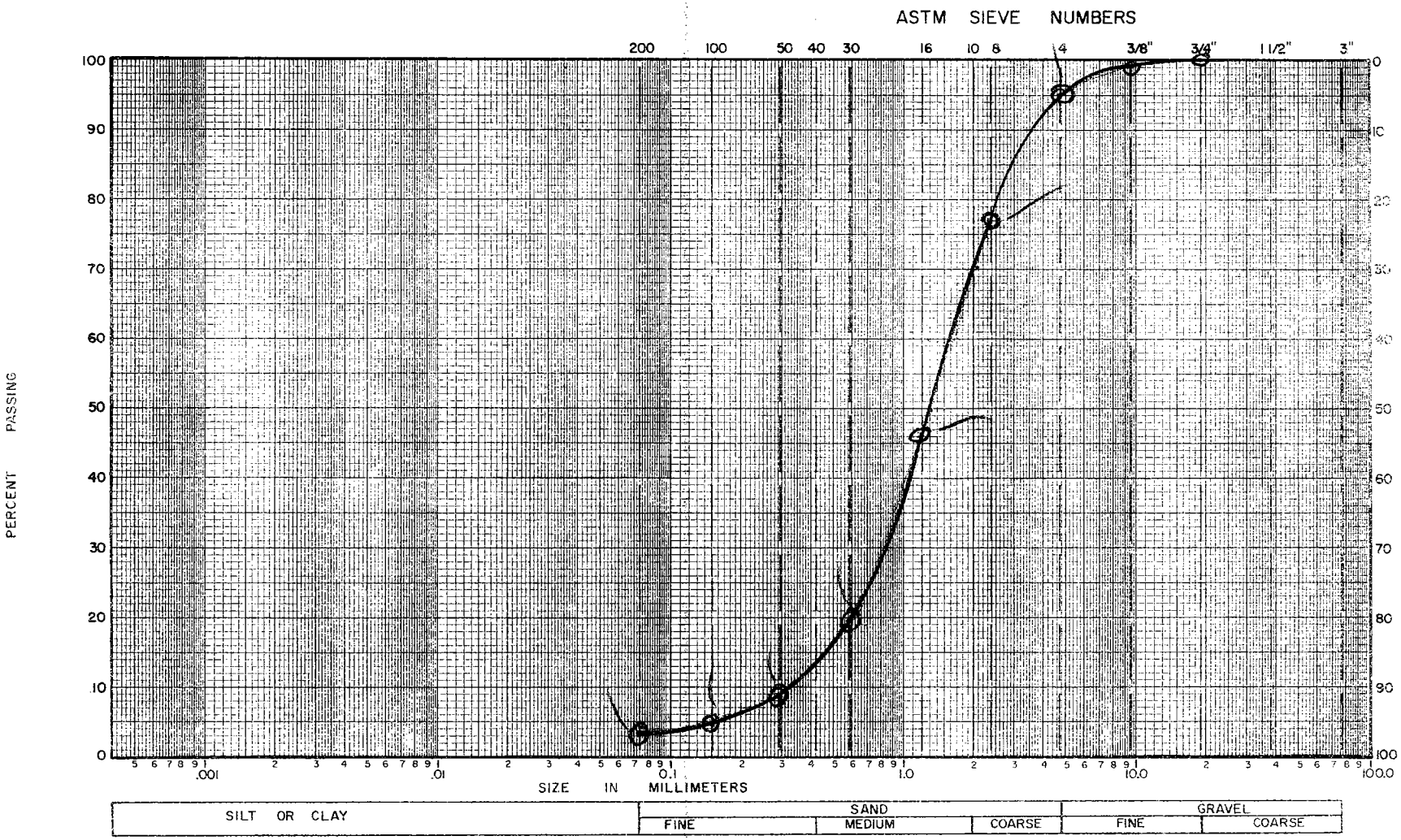
D_{30} mm D_{60} 1.6 mm

$Cu = D_{60}/D_{10}$ PLOTTED BY KB

$Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ CHECKED BY SMP

GROUP SYMBOL DATE 3/3/69

NOTE: D_X = PARTICLE DIA. AT X% PASSING



52

(50)

SM-SP

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22881

Project SIERRA MADRE VILLA DB

Station

Location

Boring No. 2 Sample No.

Sampled By Lab Tested By AR

Total Weight of Sample 1.37 lbs.

grams.

Moisture Content of Fines %.

Date Tested 2/26 Plotted By

Remarks NP

Intended Use

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED LBS.	RETAINED GRAMS	% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
3"	76.2						
1½"	38.1						
(1")	(25.4)						
3/4"	19.1						
3/8"	9.52	0.17		13.1	13.1		
No. 4	4.76	0.27	44	20.8	33.9	66.2	
Pan	0	0.93		xxxxx			
Total Fractions		1.37		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		.86		66.2			
Total Oven-Dry		1.30		100.00			

Moisture Determination of Fines:

Cup No. 16

Dry Weight 166.1 grams

Moisture 8.6 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 92.1 grams.

WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 139.1 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
8	2.38	24.9	17.9	51.8		
16	1.19	30.9	22.2	74.0		
30	0.59	11.9	8.6	82.6		
50	.297	5.3	3.8	86.4		
100	.149	4.2	3.0	89.4		
200	.074	2.5	1.8	91.0	9.0	
Pan	0	0.1	—			
Total Fractions		79.8				
Total Dry Weight After Wet Sieving	199.6	79.4	57.1			
Sieve Loss-Gain	~~120.2~~ 79.4	+ .4				

Calculated by AR Date 2/28/69

Checked by SHF Date 2/24/69

Note: Cross out sieve numbers not used.

76S523—Cdb 10-68

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. _____

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 _____ D_{10} 0.11 mm

D_{30} 1.5 mm D_{60} 3.5 mm

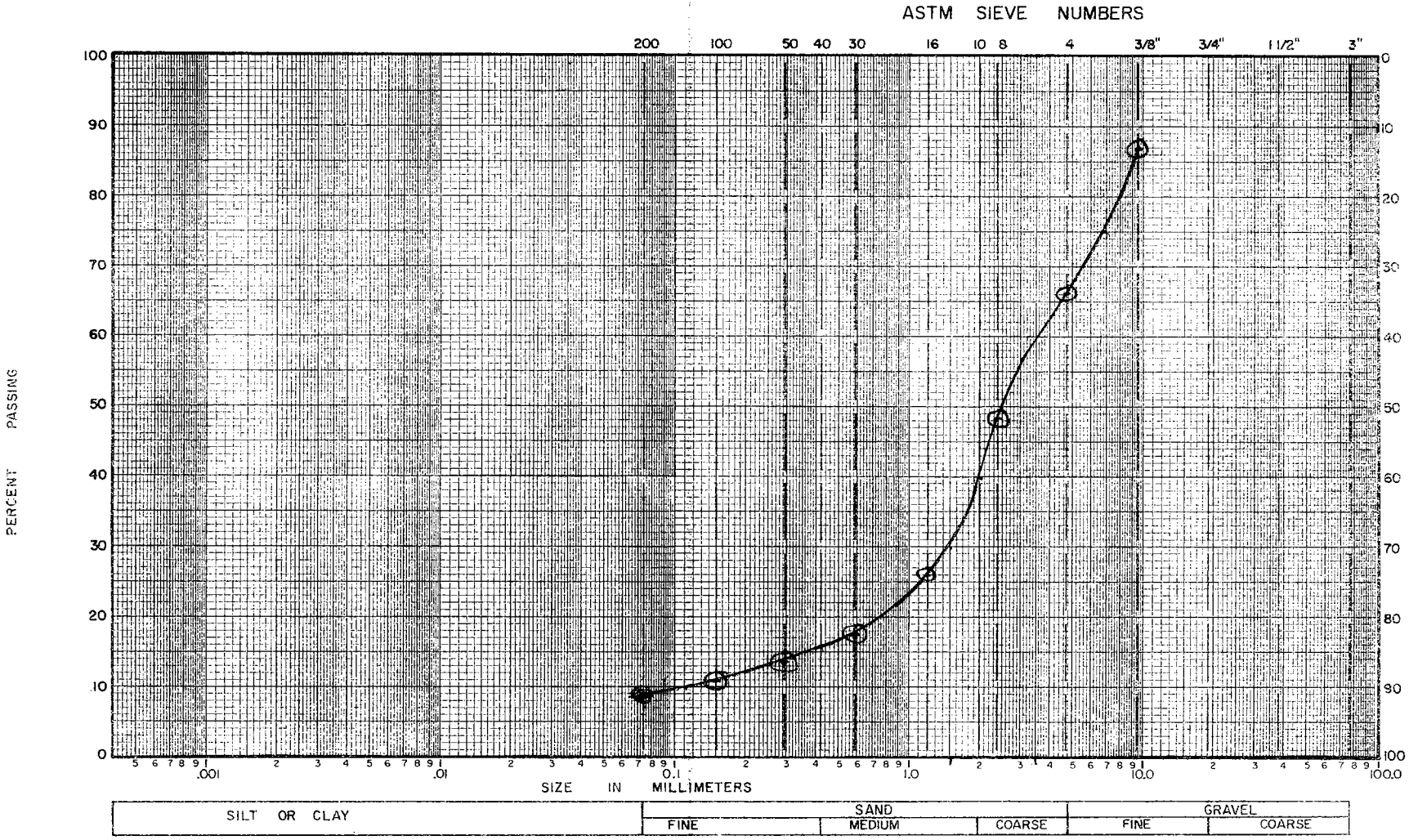
$Cu = D_{60}/D_{10}$ 30.1 PLOTTED BY EK

$Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ 5.8 CHECKED BY RII

325 / .385

GROUP SYMBOL _____ DATE 2/28/69

NOTE: D_X = PARTICLE DIA. AT X % PASSING



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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22852

Project SIERRA MADRE VILLA DB

Station

Location

Boring No. 3 Sample No.

Sampled By Lab Tested By

Total Weight of Sample lbs.

grams.

Moisture Content of Fines %.

Date Tested Plotted By

Remarks NP

Intended Use

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED LBS.	RETAINED GRAMS	% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
3"	76.2						
1½"	38.1						
(1")	(25.4)						
3/4"	19.1						
3/8"	9.52						
No. 4	4.76	0.02		1.0	1.0	~~55.0~~	98.6
Pan	0	1.52		xxxxx			
Total Fractions		1.54		xxxxx			
Sieve Loss-Gain		—		98.6			
Calc. Oven-Dry Fines		1.45		~~99.0~~			
Total Oven-Dry		1.47		100.00			

Moisture Determination of Fines:

Cup No. 32

Dry Weight 169.7 grams

Moisture 4.5 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100

(CALC.) OVEN-DRY WEIGHT 95.7 grams.

WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY ~~96.6~~ 97.1 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
8	2.38	5.9	6.1	6.2		
16	1.19	19.6	~~20.3~~ 20.2	~~26.5~~ 26.4		
30	0.59	27.2	~~28.2~~ 28.0	~~54.7~~ 54.4		
50	.297	26.8	~~27.7~~ 27.6	~~82.4~~ 82.0		
100	.149	13.8	~~14.3~~ 14.2	~~96.7~~ 96.2		
200	.074	2.2	2.3	~~99.0~~	~~1.0~~	
Pan	0	—	—	98.4	1.6	
Total Fractions		95.5	98.4			
Total Dry Weight After Wet Sieving 215.7		95.5	~~98.3~~			
Sieve Loss-Gain 120.2		0				

Calculated by Date

Checked by SHF Date 3/3/69

Note: Cross out sieve numbers not used.

76S523—Cdb 10-68

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22852

JOB

BORING NO. SAMPLE NO.

STATION DEPTH FT.

LOCATION

SAMPLED BY DATE

FIELD CLASSIFICATION BY

PLAS. IND. LIQ. LIM.

REMARKS

CLASSIFICATION DATA

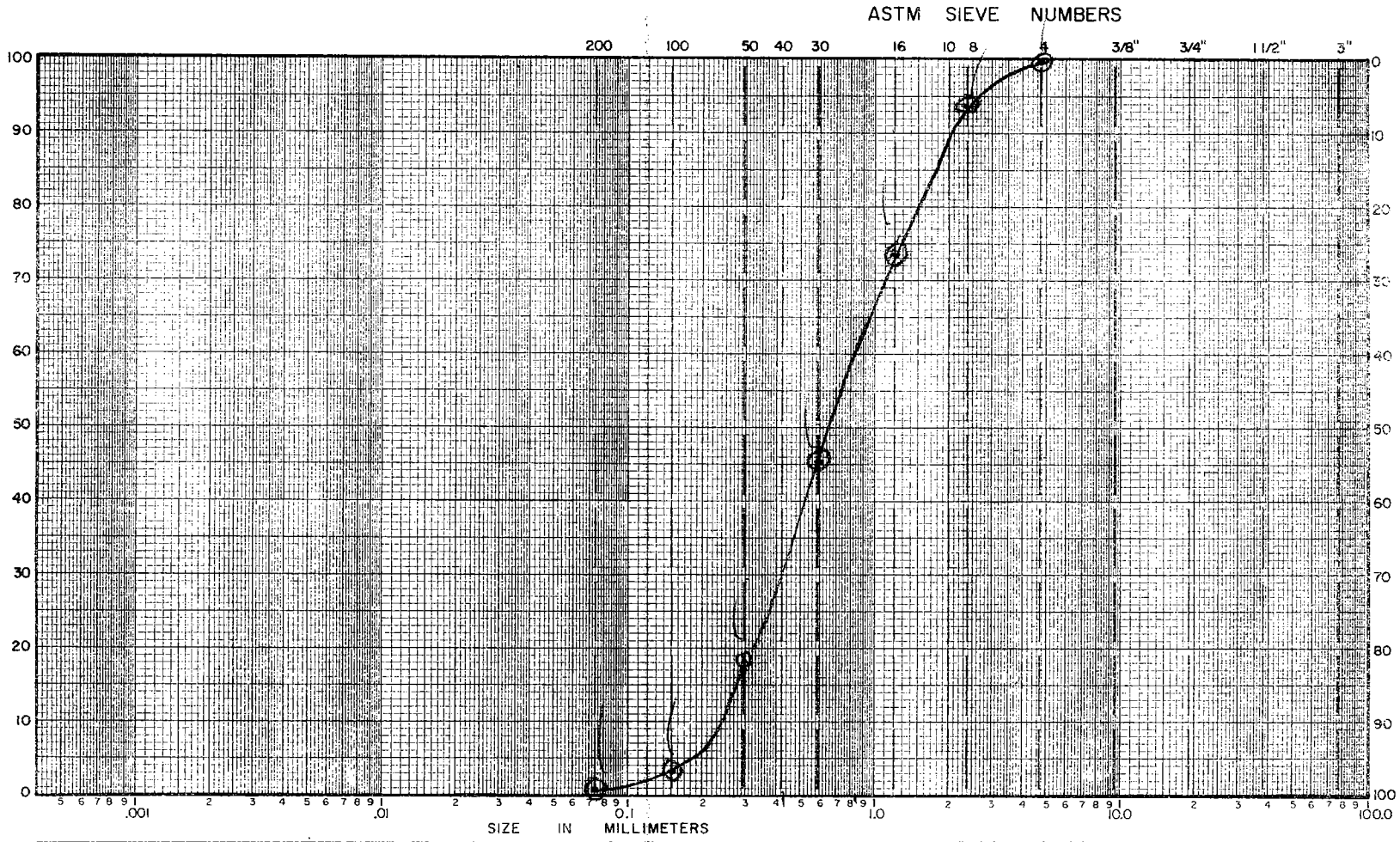
PERCENT (+) NO. 200 PERCENT (+) NO. 4 /

%(+)NO.4/%(+)NO. 200 D_{10} 0.25 mm

D_{30} 0.42 mm D_{60} 0.94 mm

$Cu = D_{60}/D_{10}$ PLOTTED BY

$Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ CHECKED BY 2HF

GROUP SYMBOL DATE 3/3/69

NOTE: D_X = PARTICLE DIA. AT X% PASSING