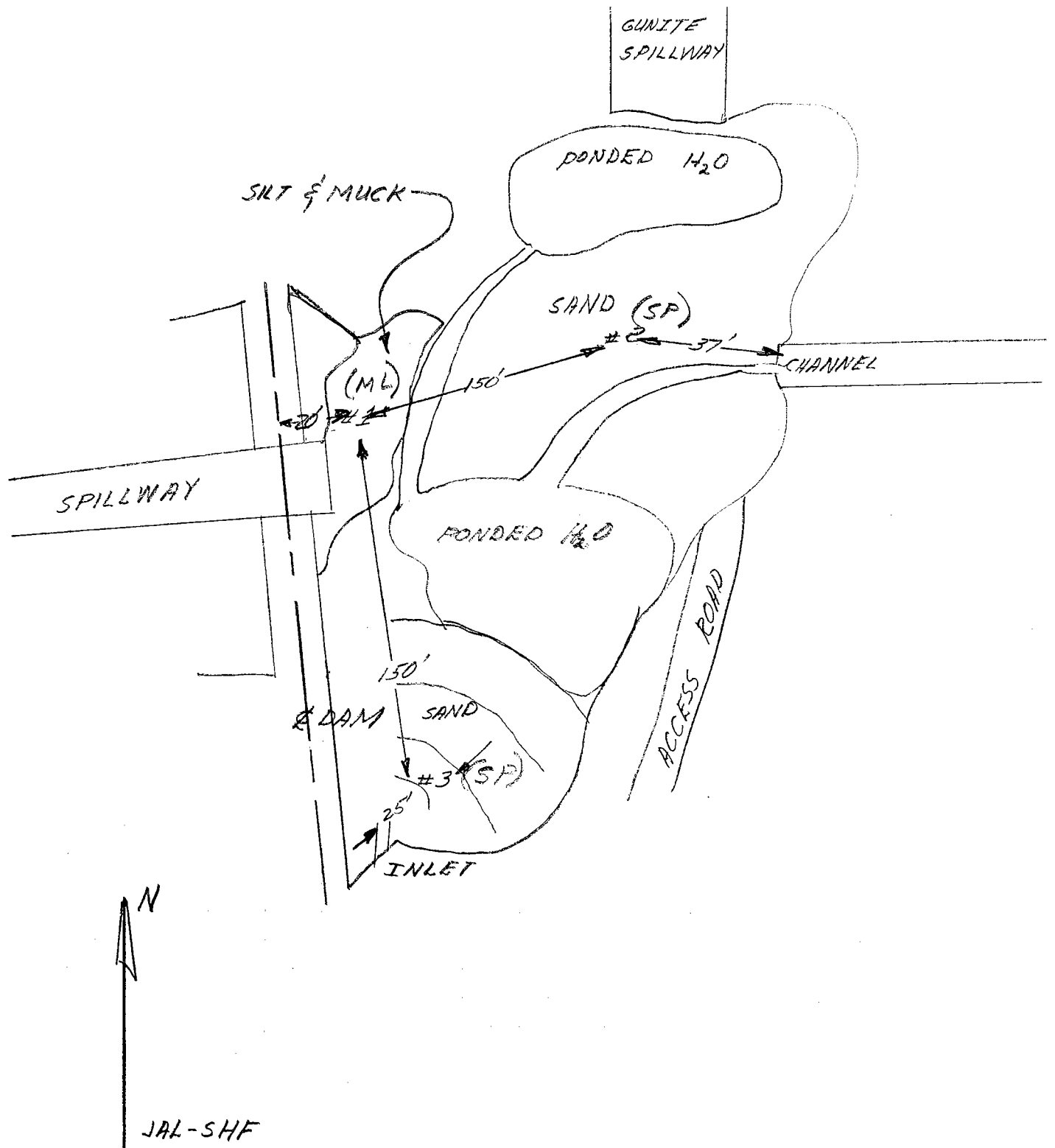


Scholl Debris Basin

2/25/69
From 2/19/69

47



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

ML
(47)

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22889
Project SCHOLL - OB
Station _____
Location _____
Boring No. 1 Sample No. 1
Sampled By _____ Lab Tested By NR

Total Weight of Sample 0.89 lbs.
_____ grams.
Moisture Content of Fines _____ %.
Date Tested 2/20/69 Plotted By _____
Remarks _____
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						
1½"	38.1						
(1")	(25.4)						
¾"	19.1						
⅜"	9.52						✓
No. 4	4.76					—	100.0
Pan	0	0.89		xxxxx			
Total Fractions		0.89		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		0.62	✓	100.0	✓		
Total Oven-Dry		0.62	✓	100.00			

Moisture Determination of Fines:
Cup No. 60
Dry Weight 143.2 grams
Moisture 44.5%

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 69.2 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 69.2 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	—				
16	1.19	—				
30	0.59	—				
50	.297	0.1	0.1	0.1		
100	.149	0.8	1.2	1.3		
200	.074	7.0	10.1	17.5	82.5	
Pan	0	4.2				
Total Fractions		12.1				
Total Dry Weight After Wet Sieving		132.3	12.1	17.5		
Sieve Loss-Gain		120.2				

Calculated by NR Date 3/5/69
Checked by SHF Date 3/12/69

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. 22889
Project _____
Limits _____
Boring _____ Sample _____
Depth _____
Sampled by _____ Date _____
Field Description _____

Initial Weight of Sample Passing
No. 4 Sieve _____ grams
Remarks _____
Set up by NR Date _____
Lab. Tested by NR Date 2/27/69

Moisture Cup No. _____
Dry Weight, grams _____
Moisture Content, % _____
Oven-Dry Weight
Passing No. 4 grams _____
Percent Passing No. 4 _____; No. 10 _____ = P₁₀
Oven-Dry Weight of total
Sample represented,
W = 69.2 grams

Type Calgon
Dispersing Agent Volume, cc 125
Strength, % _____
Correction, gm/l = C_d -7.0
Soil Specific Gravity = G 2.65
S. G. Correction factor = a 1.00
Meniscus correction, gm/l = C_m +1.3
Peroxide Treatment Used (Yes) (No)
HYDROMETER NO. _____ JAR NO. _____

11:31:30 STIR
11:31:30 START
11:32 START

Time	11:31:30 STIR 11:32 start	11:33	11:36	11:48	12:36	3:48	8:32
Temperature, °C		20.0	20.1	20.0	19.6	20.0	20.0
Temp. correc. Factor = C _t		0.0	0.0	0.0	-0.1	0.0	0.0
Elapsed Time, Minutes = T		1	4	16	64	256	1260
Hydrometer Reading, gm/l = R		49.5	30.0	20.5	15.0	12.0	10.0
Effective Depth, cm = L		2.865	3.38	3.61	3.71	3.78	3.83
Total Correction C = C _d + C _m + C _t		-5.7	-5.7	-5.7	-5.8	-5.7	-5.7
Corrected Reading R _c = R + C		43.8	24.3	14.8	9.2	6.3	4.3
K		.01365	→				
Diameter in mm = D		.0391	.0231	.0133	.00633	.00322	.000206
Percent in Suspension = P		63.3	35.2	21.4	13.3	9.1	6.2
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 NR Date 3/5/69
Plotted by _____ Date _____

Checked by RIT
Date 3/12/69

(47)

Los Angeles County Flood Control District
Soils and Materials Engineering Division

LIQUID LIMIT AND PLASTIC LIMIT TESTS

Lab. Serial No. 22889
 Job SCHOLL D.P.
 Boring No. _____
 Sample No. _____
 Sampled By _____ Date _____

Remarks _____
 Lab. Tested By FK Date 2-27-69
 Computed By _____ Date _____
 Plotted By _____ Date _____

LIQUID LIMIT

ONE POINT TABLE

Container No.	26
No. of Blows	
Wet Sample Wt. + Tare	
Dry Sample Wt. + Tare	
Wt. of Water (Diff)	
Tare	57.53
Wt. of Dry Soil	
Moisture Content	
Liquid Limit	
One Point	
Liquid Limit	

BLOWS	FACTOR
16	.947
17	.954
18	.961
19	.967
20	.973
21	.979
22	.985
23	.990
24	.995
25	1.000
26	1.005
27	1.009
28	1.014
29	1.018
30	1.022
31	1.026
32	1.030
33	1.034
34	1.038
35	1.042

PLASTIC LIMIT

Run No.	1	2	3
Container No.	46	15	62
Wet Sample Wt. + Tare			
Dry Sample Wt. + Tare			
Wt. of Water (Diff)			
Tare	50.49	60.53	50.57
Wt. of Dry Soil			
Moisture Content			
Plastic Limit (Average Value)			

Plasticity Index (LL - PL) = PI = _____

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 _____ D₁₀ _____ mm

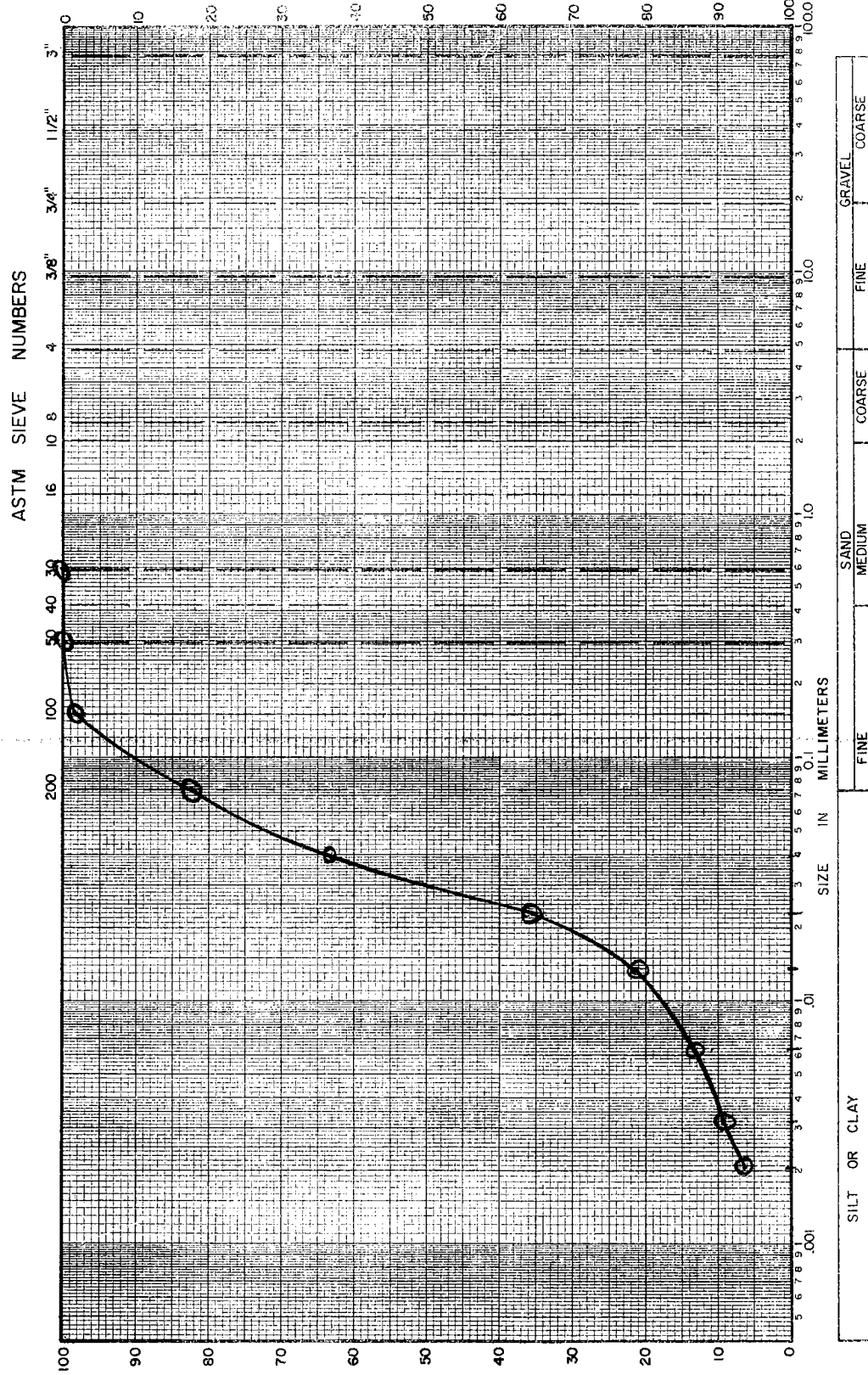
D₃₀ _____ mm D₆₀ _____

Cu = D₆₀/D₁₀ _____ PLOTTED BY RM

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

GROUP SYMBOL _____ DATE _____

NOTE: D_x = PARTICLE DIA. AT X% PASSING



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SP (47)

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22890
Project SCHOLL DB
Station _____
Location _____
Boring No. 2 Sample No. 1
Sampled By _____ Lab Tested By NR

Total Weight of Sample 1.14 lbs.
grams.
Moisture Content of Fines _____ %
Date Tested 2/20 Plotted By _____
Remarks NP
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						
1½"	38.1						
(1")	(25.4)						
¾"	19.1						
⅜"	9.52						
No. 4	4.76	0.02		1.9	1.9	98.1	
Pan	0	1.12		xxxxx			
Total Fractions		1.14		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.03		98.1			
Total Oven-Dry		1.05		100.00			

Moisture Determination of Fines:
Cup No. 71
Dry Weight 165.9 grams
Moisture 8.8 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 91.9 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 93.7 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	5.7	6.1	8.0		
16	1.19	21.9	23.4	31.4		
30	0.59	36.7	39.2	70.6		
50	.297	16.5	17.6	88.2		
100	.149	5.2	5.5	93.7		
200	.074	1.8	1.9	95.3	4.7	
Pan	0	0.0	—			
Total Fractions		87.8				
Total Dry Weight After Wet Sieving		207.7	87.5	93.4		
Sieve Loss-Gain		120.2	+0.3			

Calculated by NR Date 2/21/69
Checked by OHF Date 2/27/69

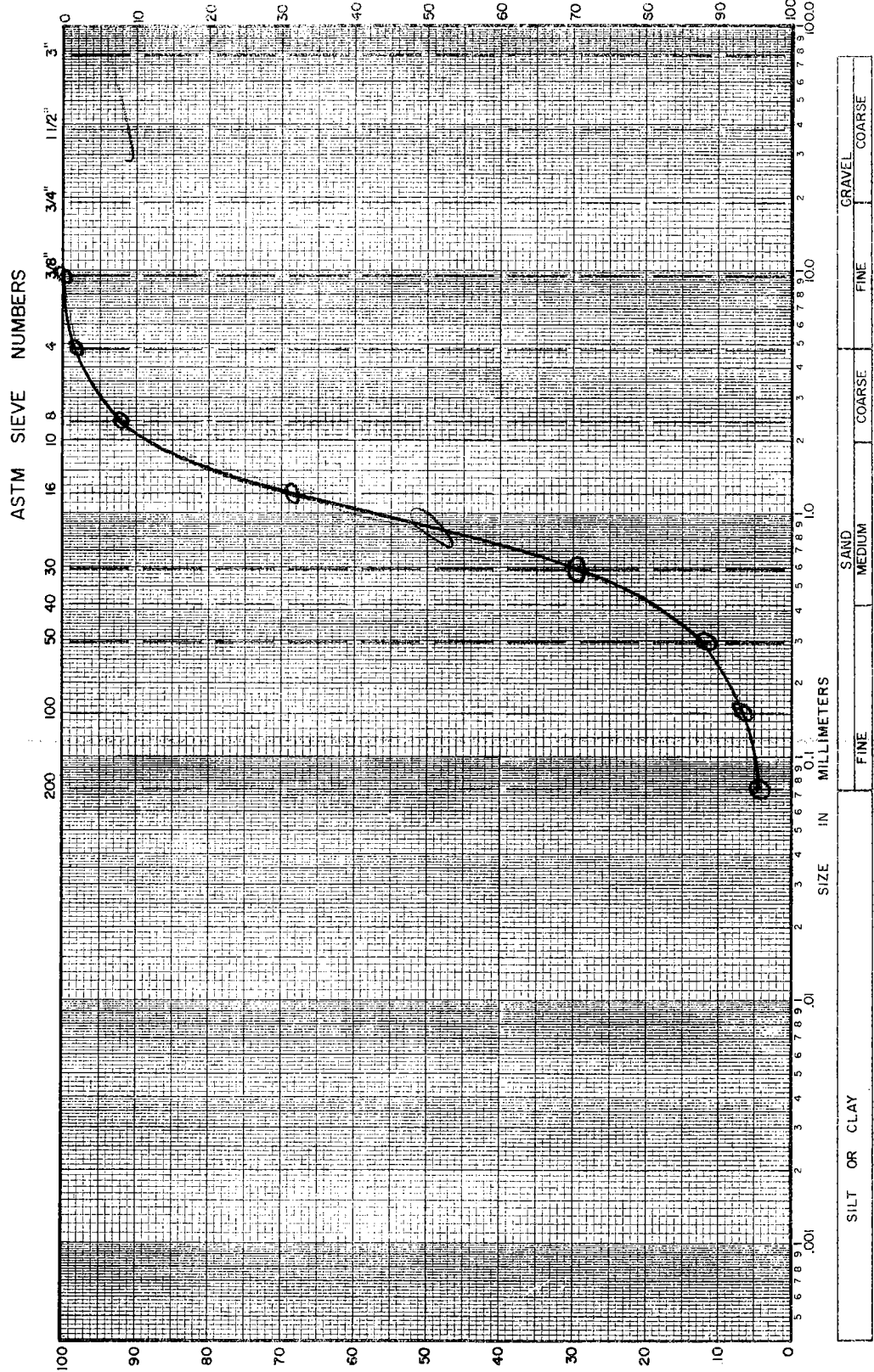
Note: Cross out sieve numbers not used.

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

LAB. SERIAL NO. 22890
 JOB SCHOLL DB
 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 0.24 mm
 D₃₀ 0.60 mm D₆₀ 1.05 mm
 C_u = D₆₀/D₁₀ 4.4 PLOTTED BY R
 C_c = (D₃₀)² / (D₁₀ x D₆₀) _____ CHECKED BY RJI
 GROUP SYMBOL _____ DATE 2/27/69
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SP ✓
(47)

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22891
Project SCHOLL DB
Station _____
Location _____
Boring No. 3 Sample No. 1
Sampled By _____ Lab Tested By AR

Total Weight of Sample 119 lbs.
grams.
Moisture Content of Fines _____ %
Date Tested 2/26 Plotted By FR
Remarks NP
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						
1½"	38.1						
(1")	(25.4)						
¾"	19.1						
⅜"	9.52	0.03		2.7	2.7		
No. 4	4.76	0.10	1.3	8.9	11.6	88.4	
Pan	0	1.06		xxxxx			
Total Fractions		1.19		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		.99		88.4			
Total Oven-Dry		1.12		100.00			

Moisture Determination of Fines:
Cup No. 12
Dry Weight 166.9 grams
Moisture 7.6 %

WEIGHT, GRAMS 100 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 92.9 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 105.1 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	12.6	12.0	23.6		
16	1.19	24.5	23.3	46.9		
30	0.59	22.1	21.0	67.9		
50	.297	16.8	16.0	83.9		
100	.149	12.1	11.5	95.4		
200	.074	3.7	3.5	98.7	1.3	
Pan	0					
Total Fractions		91.8	90.8			
Total Dry Weight After Wet Sieving		211.7	91.5	87.1		
Sieve Loss-Gain		120.2	-0.7			

Calculated by AR Date 2/27/09
Checked by SHF Date 2/28/09

Note: Cross out sieve numbers not used. +.3

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

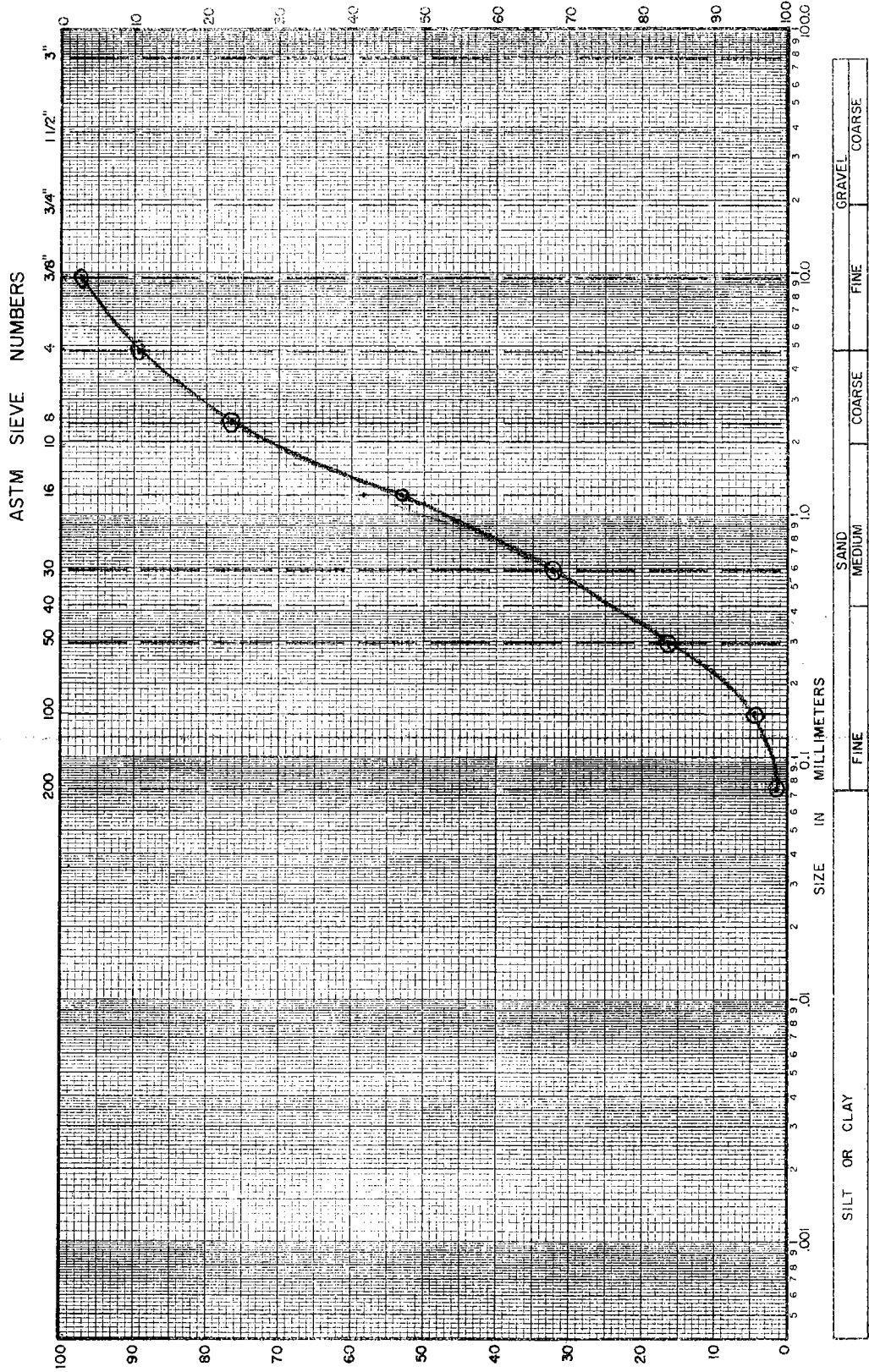
Soils and Materials Engineering Division

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} 0.22 mm
 D_{30} 0.52 mm D_{60} 1.4 mm
 $C_u = D_{60}/D_{10}$ _____ PLOTTED BY RF
 $C_c = (D_{30})^2 / (D_{10} \times D_{60})$ _____ CHECKED BY RF
 GROUP SYMBOL _____ DATE 2/28/69
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



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