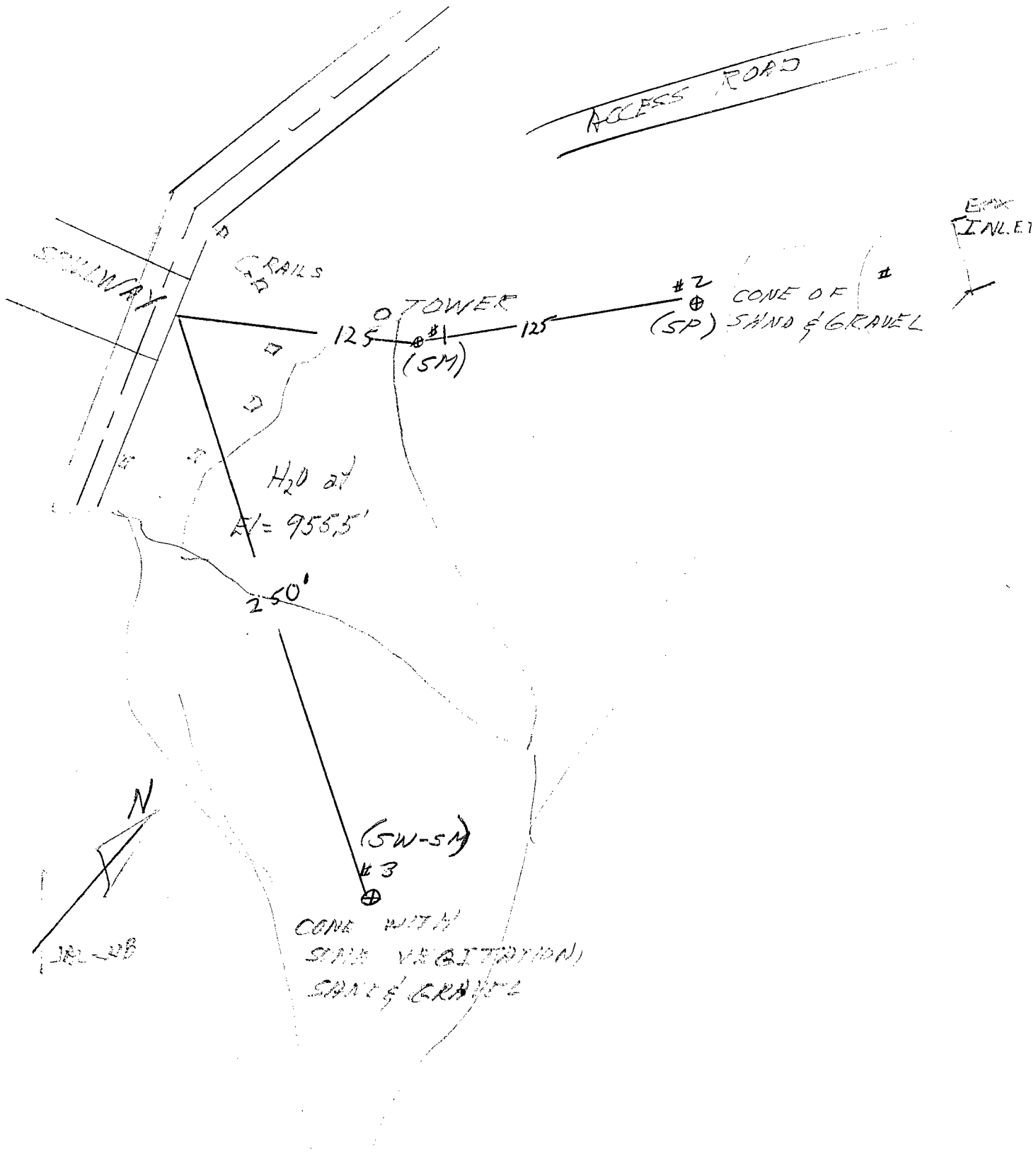


McClure Debris Field



**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division

SM (39)

**SIEVE ANALYSIS WORK SHEET**

LAB SERIAL NO. 22929 Total Weight of Sample 2.23 lbs.  
 Project McCURE DB \_\_\_\_\_ grams.  
 Station \_\_\_\_\_ Moisture Content of Fines \_\_\_\_\_ %.  
 Location \_\_\_\_\_ Date Tested 3/12/69 Plotted By \_\_\_\_\_  
 Boring No. 1 Sample No. \_\_\_\_\_ Remarks IR  
 Sampled By \_\_\_\_\_ Lab Tested By IR 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						
3/8"	9.52	.09		4.8	4.8		
No. 4	4.76	.23	32	12.2	17.0	83.0	
Pan	0	1.91		xxxxx			
Total Fractions		2.23		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.57		83.0			
Total Oven-Dry		1.89		100.00			

Moisture Determination of Fines:  
 Cup No. 42  
 Dry Weight 156.1 grams  
 Moisture 21.8 %

WEIGHT, GRAMS 100 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 82.1 grams.  
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 98.9 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	11.7	11.8	28.8		
16	1.19	12.3	12.4	41.3		
30	0.59	6.0	6.1	47.4		
50	.297	5.2	5.3	52.7		
100	.149	12.0	12.1	64.8		
200	.074	14.3	14.5	80.0	20.0	
Pan	0	0.5				
Total Fractions		62.0				
Total Dry Weight After Wet Sieving		182.5	62.3	63.0		
Sieve Loss-Gain		120.2	- .3			

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

Note: Cross out sieve numbers not used.

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division

SP (39)

**SIEVE ANALYSIS WORK SHEET**

LAB SERIAL NO. 22930 Total Weight of Sample 2.38 lbs.  
 Project MCCURE DB \_\_\_\_\_ grams.  
 Station \_\_\_\_\_ Moisture Content of Fines \_\_\_\_\_ %.  
 Location \_\_\_\_\_ Date Tested 3/18 Plotted By \_\_\_\_\_  
 Boring No. 2 Sample No. 1 Remarks AP  
 Sampled By \_\_\_\_\_ Lab Tested By AR 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	<u>22</u>		<u>9.7</u>	<u>9.7</u>		
⅜"	9.52	<u>.31</u>	<u>2.38</u>	<u>13.7</u>	<u>23.4</u>		
No. 4	4.76	<u>29</u>	<u>.82</u>	<u>12.8</u>	<u>36.2</u>	<u>63.8</u>	
Pan	0	<u>1.56</u>		xxxxx			
Total Fractions		<u>2.38</u>		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		<u>1.44</u>		<u>63.8</u>			
Total Oven-Dry		<u>2.26</u>		<u>100.00</u>			

Moisture Determination of Fines:  
 Cup No. 65  
 Dry Weight 166.1 grams  
 Moisture 8.6 %

WEIGHT, GRAMS 100 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 92.2 grams.  
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 144.7 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	<u>16.7</u>	<u>11.5</u>	<u>47.7</u>		
16	1.19	<u>22.9</u>	<u>15.8</u>	<u>63.5</u>		
30	0.59	<u>18.9</u>	<u>13.1</u>	<u>76.6</u>		
50	.297	<u>13.8</u>	<u>9.5</u>	<u>86.1</u>		
100	.149	<u>10.9</u>	<u>7.5</u>	<u>93.6</u>		
200	.074	<u>4.9</u>	<u>3.4</u>	<u>97.1</u>	<u>2.9</u>	
Pan	0	<u>—</u>				
Total Fractions		<u>88.1</u>				
Total Dry Weight After Wet Sieving		<u>208.3</u>	<u>88.1</u>	<u>60.9</u>		
Sieve Loss-Gain		<u>120.2</u>				

Calculated by AR Date 3/18/69  
 Checked by RJT Date 3/20/69

Note: Cross out sieve numbers not used.

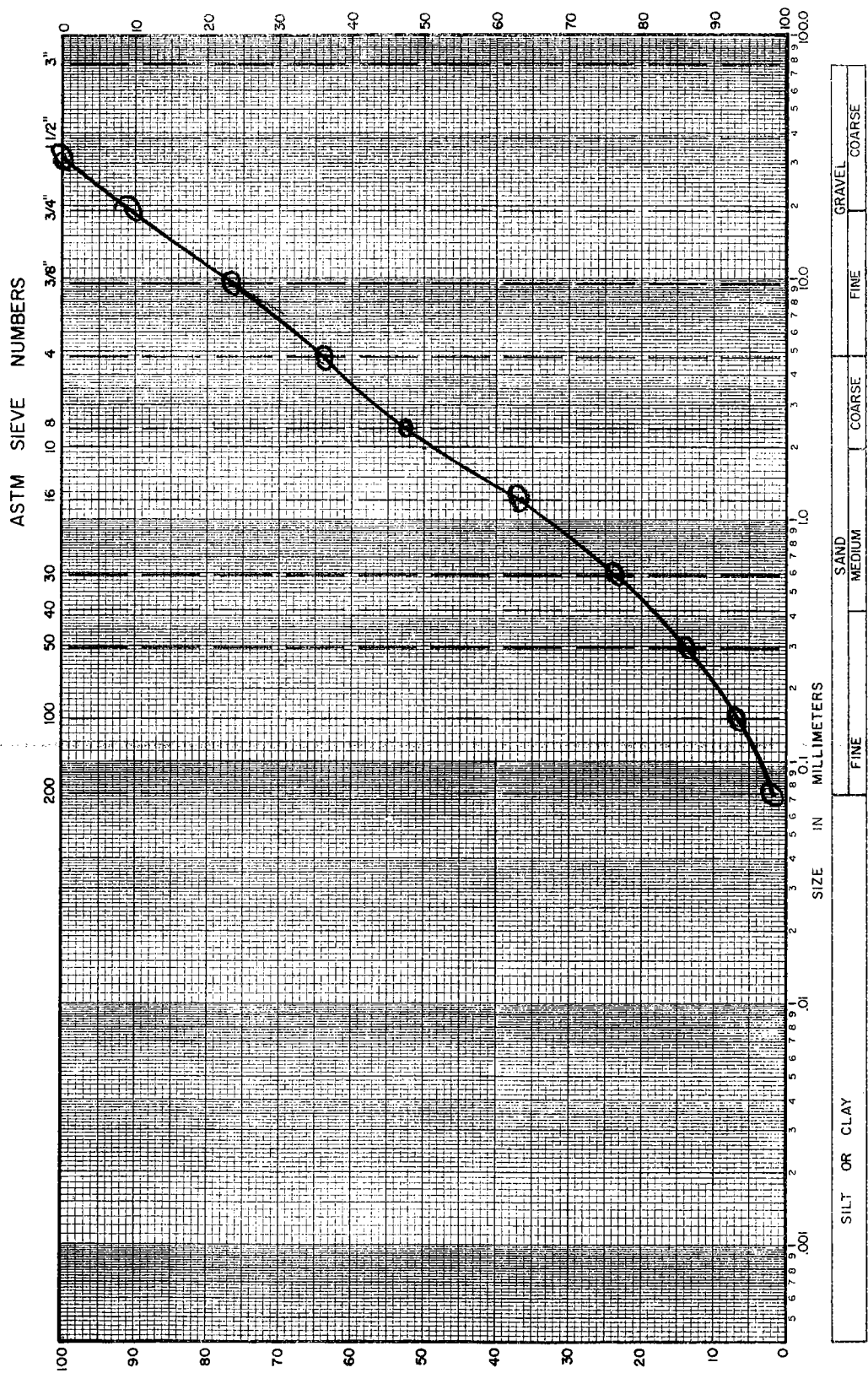
**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division  
**MECHANICAL ANALYSIS**

LAB. SERIAL NO. 22930  
 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 \_\_\_\_\_  $D_{10}$  0.21 mm  
 $D_{30}$  0.85 mm  $D_{60}$  3.5 mm  
 $C_u = D_{60}/D_{10}$  16.7 PLOTTED BY NR  
 $C_c = (D_{30})^2 / (D_{10} \times D_{60})$  \_\_\_\_\_ CHECKED BY RT  
1723 GROUP SYMBOL \_\_\_\_\_ DATE 3/20/69  
1735 \_\_\_\_\_

NOTE:  $D_x$  = PARTICLE DIA. AT X% PASSING



**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division

SM-SW ✓  
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**SIEVE ANALYSIS WORK SHEET**

LAB SERIAL NO. 22931  
Project McClure DB  
Station \_\_\_\_\_  
Location \_\_\_\_\_  
Boring No. 3 Sample No. 1  
Sampled By \_\_\_\_\_ Lab Tested By NR

Total Weight of Sample 2.55 lbs.  
\_\_\_\_\_ grams.  
Moisture Content of Fines \_\_\_\_\_ %.  
Date Tested 3/18/69 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	0.05		2.1	2.1		
⅜"	9.52	0.23		9.7	11.8		
No. 4	4.76	0.24	52	10.1	21.9	78.2	
Pan	0	2.03		xxxxx			
Total Fractions		2.55		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.86		78.2			
Total Oven-Dry		2.38		100.00			

Moisture Determination of Fines:  
Cup No. 23  
Dry Weight 165.7 grams  
Moisture 9.1 %

WEIGHT, GRAMS 100 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 91.8 grams.  
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 117.4 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	75.4	13.1	35.0		
16	1.19	29.8	25.4	60.4		
30	0.59	19.0	16.2	76.6		
50	.297	10.0	8.5	85.1		
100	.149	6.8	5.8	90.9		
200	.074	4.1	3.5	94.6	5.4	
Pan	0	0.0				
Total Fractions		85.1				
Total Dry Weight After Wet Sieving		205.6	72.7			
Sieve Loss-Gain		120.2	-0.3			

2516  
100.2

Calculated by NR Date 3/18/69  
Checked by RJT Date 3/20/69

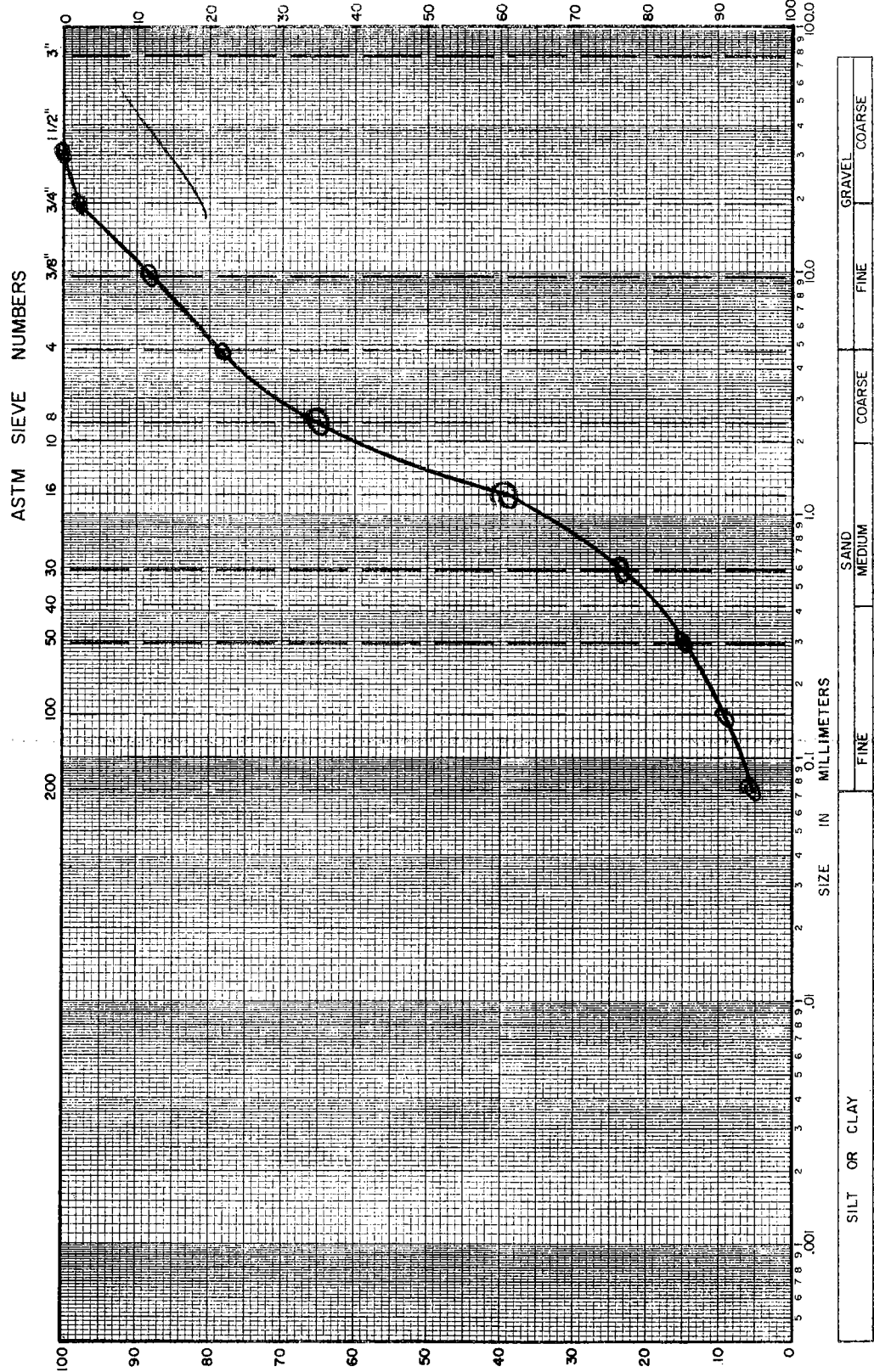
Note: Cross out sieve numbers not used.

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

LAB. SERIAL NO. 22931  
 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 \_\_\_\_\_  $D_{10}$  0.17 mm  
 $D_{30}$  0.83 mm  $D_{60}$  2.0 mm  
 $C_u = D_{60}/D_{10}$  11.8 PLOTTED BY AT  
 $C_c = (D_{30})^2 / (D_{10} \times D_{60})$  2.0 CHECKED BY AT  
 GROUP SYMBOL \_\_\_\_\_ DATE 2/20/69  
 NOTE:  $D_x$  = PARTICLE DIA. AT X% PASSING



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