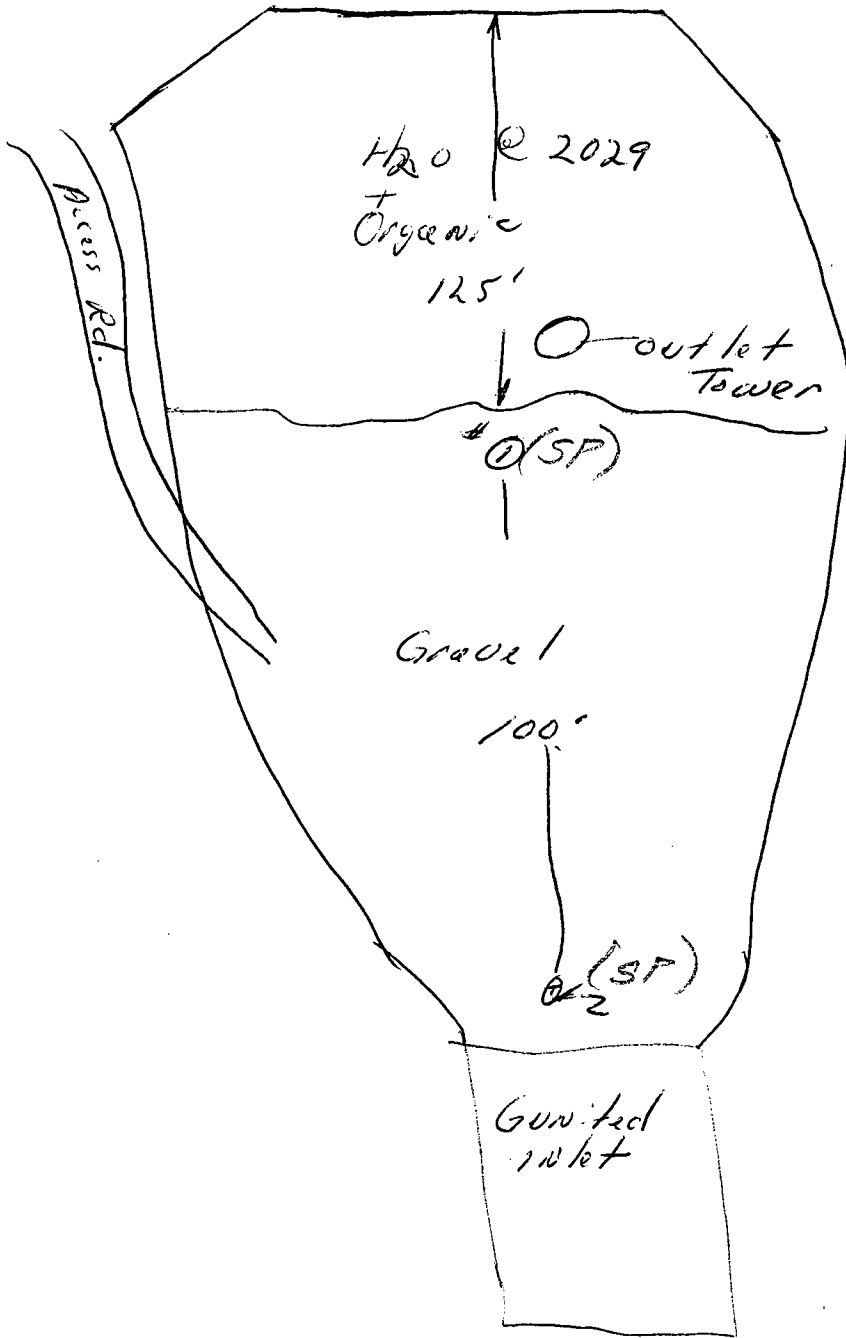


Markridge Ave

(60)



Ward D.B

NB 2/26/69  
JAL

(1)

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

*SP* 60

**SIEVE ANALYSIS WORK SHEET**

LAB SERIAL NO. 22934 Total Weight of Sample 168 lbs.  
 Project WARD DB \_\_\_\_\_ grams.  
 Station \_\_\_\_\_ Moisture Content of Fines \_\_\_\_\_ %.  
 Location \_\_\_\_\_ Date Tested 3/18/69 Plotted By \_\_\_\_\_  
 Boring No. 1 Sample No. \_\_\_\_\_ Remarks \_\_\_\_\_  
 Sampled By \_\_\_\_\_ Lab Tested By R 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	.15		9.9	9.9		
3/8"	9.52	.14		9.3	19.2		
No. 4	4.76	.17	46	11.4	30.6	69.5	
Pan	0	1.22		xxxxx			
Total Fractions				xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.05		69.5			
Total Oven-Dry		1.51		100.00			

Moisture Determination of Fines:  
 Cup No. 52  
 Dry Weight 160.0 grams  
 Moisture 16.3 %

WEIGHT, GRAMS 100 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 85.8 grams.  
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 123.5 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	12.5	10.1	40.7		
16	1.19	19.9	16.1	56.8		
30	0.59	21.4	17.3	74.1		
50	.297	16.2	13.1	87.2		
100	.149	10.3	8.3	95.5		
200	.074	3.2	2.6	98.6	1.4	
Pan	0	0.1				
Total Fractions		83.6				
Total Dry Weight After Wet Sieving		204.1	83.9	68.0		
Sieve Loss-Gain		<del>120.2</del> 83.9	-1.3			

Calculated by R Date 3/18/69  
 Checked by RTT Date 3/20/69

Note: Cross out sieve numbers not used.

2 : 1  
120.2  
48.9

# LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

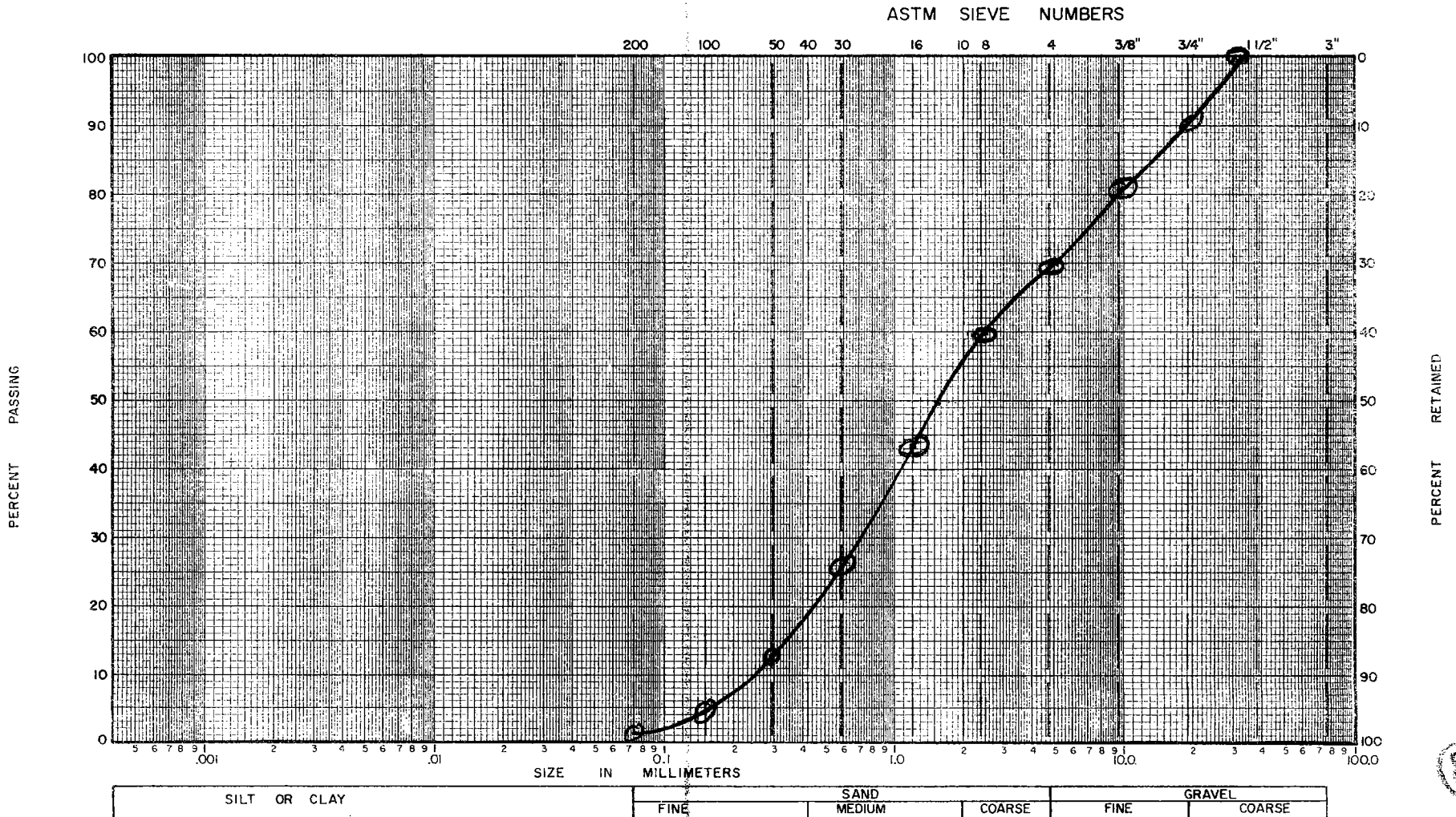
Soils and Materials Engineering Division

## MECHANICAL ANALYSIS

LAB. SERIAL NO. 22934  
 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  
 $D_{30}$  17 mm  $D_{60}$  25 mm  
 $C_u = D_{60}/D_{10}$  10 PLOTTED BY AR  
 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$  \_\_\_\_\_ CHECKED BY RJT  
 GROUP SYMBOL \_\_\_\_\_ DATE 3/20/69  
 NOTE:  $D_x$  = PARTICLE DIA. AT X% PASSING



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

SP ✓ (60)

**SIEVE ANALYSIS WORK SHEET**

LAB SERIAL NO. 22935 Total Weight of Sample 2.02 lbs.  
 Project WARD 80 \_\_\_\_\_ grams.  
 Station \_\_\_\_\_ Moisture Content of Fines \_\_\_\_\_ %.  
 Location \_\_\_\_\_ Date Tested 3/12 Plotted By \_\_\_\_\_  
 Boring No. 2 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						
1½"	38.1						
(1")	(25.4)						
¾"	19.1						
⅜"	9.52	.05		2.8	2.8		
No. 4	4.76	.05	110	2.8	5.6	94.3	
Pan	0	1.92		xxxxx			
Total Fractions		2.02		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.62		94.3			
Total Oven-Dry		1.72		100.00			

Moisture Determination of Fines:  
Cup No. 47  
Dry Weight 1583 grams  
Moisture 18.6 %

WEIGHT, GRAMS 100 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 84.3 grams.  
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 89.4 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	5.5	6.2	11.8		
16	1.19	13.6	15.2	27.0		
30	0.59	22.0	24.6	51.6		
50	.297	19.8	22.2	73.8		
100	.149	14.4	16.1	89.9		
200	.074	5.2	5.8	95.9	4.1	
Pan	0	0.1				
Total Fractions		80.6				
Total Dry Weight After Wet Sieving		200.8	80.6	90.3		
Sieve Loss-Gain		120.7				

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

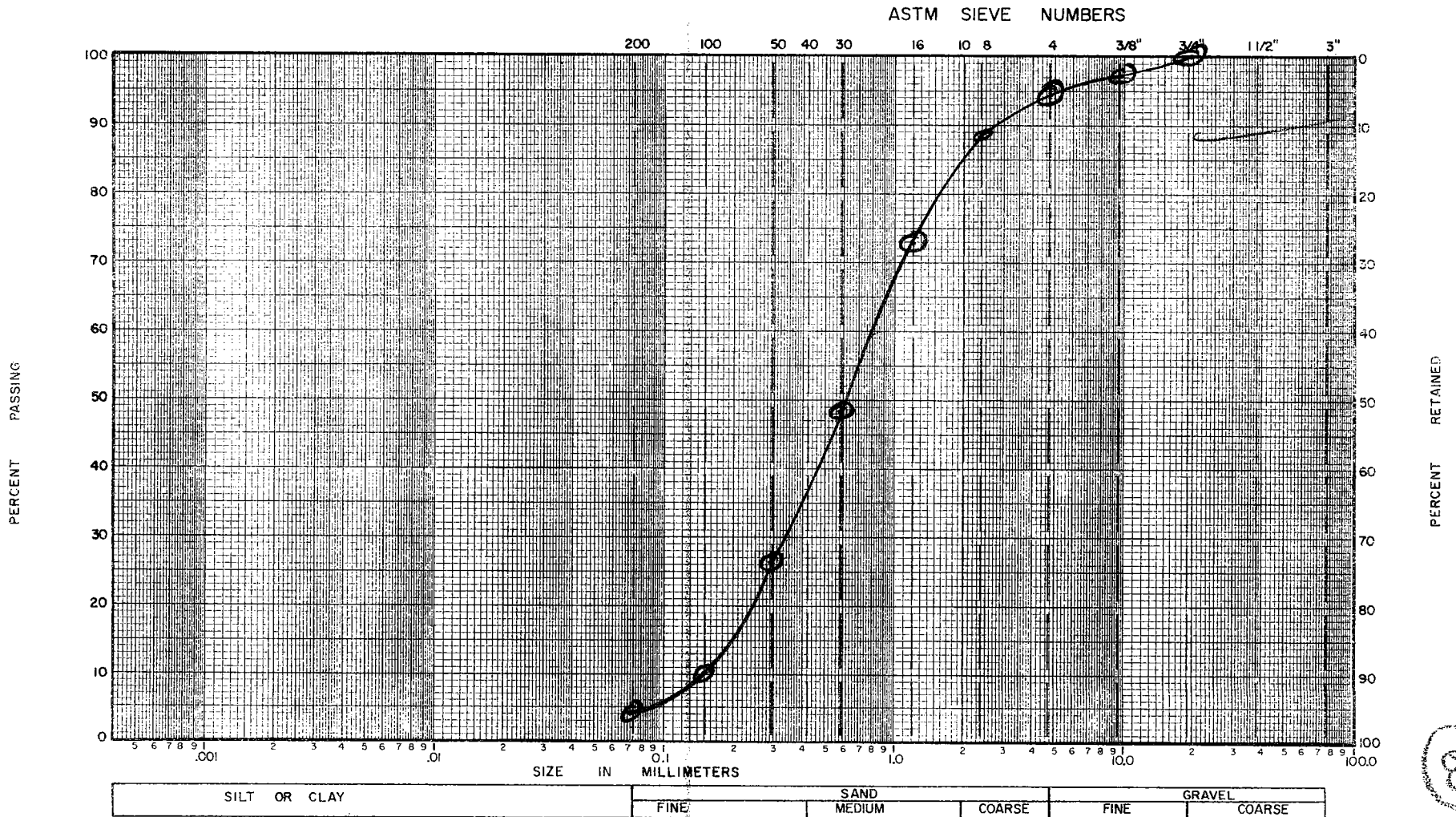
Soils and Materials Engineering Division

## MECHANICAL ANALYSIS

LAB. SERIAL NO. 22935  
 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 \_\_\_\_\_  $D_{10}$  0.15 mm  
 $D_{30}$  \_\_\_\_\_ mm  $D_{60}$  0.79 mm  
 $C_u = D_{60}/D_{10}$  \_\_\_\_\_ PLOTTED BY RT  
 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$  \_\_\_\_\_ CHECKED BY RT  
 GROUP SYMBOL \_\_\_\_\_ DATE 3/20/69  
 NOTE:  $D_x$  = PARTICLE DIA. AT X% PASSING



(8)