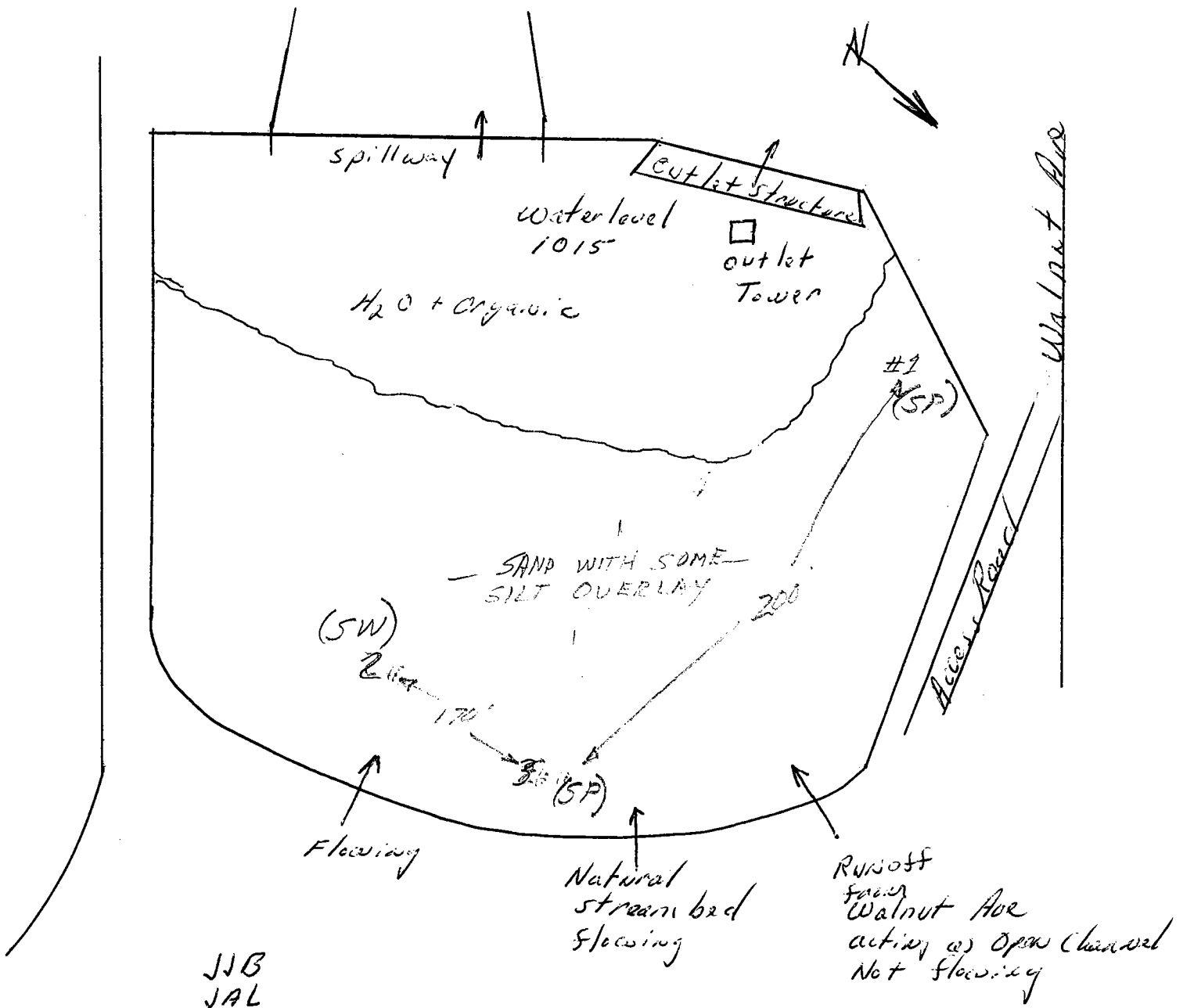


Stough Cyn D.B



JJB
 JAL
 2/26/69

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SP

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22940
Project ST046H
Station _____
Location _____
Boring No. 1 Sample No. _____
Sampled By _____ Lab Tested By NR

Total Weight of Sample 1.87 lbs.
_____ grams.
Moisture Content of Fines _____ %.
Date Tested 3/12 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						
1 1/2"	38.1						
(1")	(25.4)						
3/4"	19.1						
3/8"	9.52	<u>.10</u>		<u>6.1</u>	<u>6.1</u>		
No. 4	4.76	<u>.08</u>	<u>18</u>	<u>4.8</u>	<u>10.9</u>	<u>89.1</u>	
Pan	0	<u>1.69</u>		xxxxx			
Total Fractions		<u>1.87</u>		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		<u>1.97</u> <u>1.46</u>		<u>89.1</u>			
Total Oven-Dry		<u>1.65</u>		100.00			

Moisture Determination of Fines:
Cup No. 49
Dry Weight 160.7 grams
Moisture 15.3 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 86.6 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 97.2 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	<u>8.3</u>	<u>8.5</u>	<u>19.5</u>		
16	1.19	<u>16.0</u>	<u>16.4</u>	<u>35.9</u>		
30	0.59	<u>16.7</u>	<u>17.2</u>	<u>53.1</u>		
50	.297	<u>16.2</u>	<u>16.7</u>	<u>69.8</u>		
100	.149	<u>18.5</u>	<u>19.0</u>	<u>88.8</u>		
200	.074	<u>6.8</u>	<u>7.0</u>	<u>96.6</u>	<u>3.4</u>	
Pan	0	<u>0.5</u>				
Total Fractions		<u>83.0</u>				
Total Dry Weight After Wet Sieving		<u>203.6</u> <u>120.2</u>	<u>83.4</u>	<u>85.7</u>		
Sieve Loss-Gain		<u>-.4</u>				

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

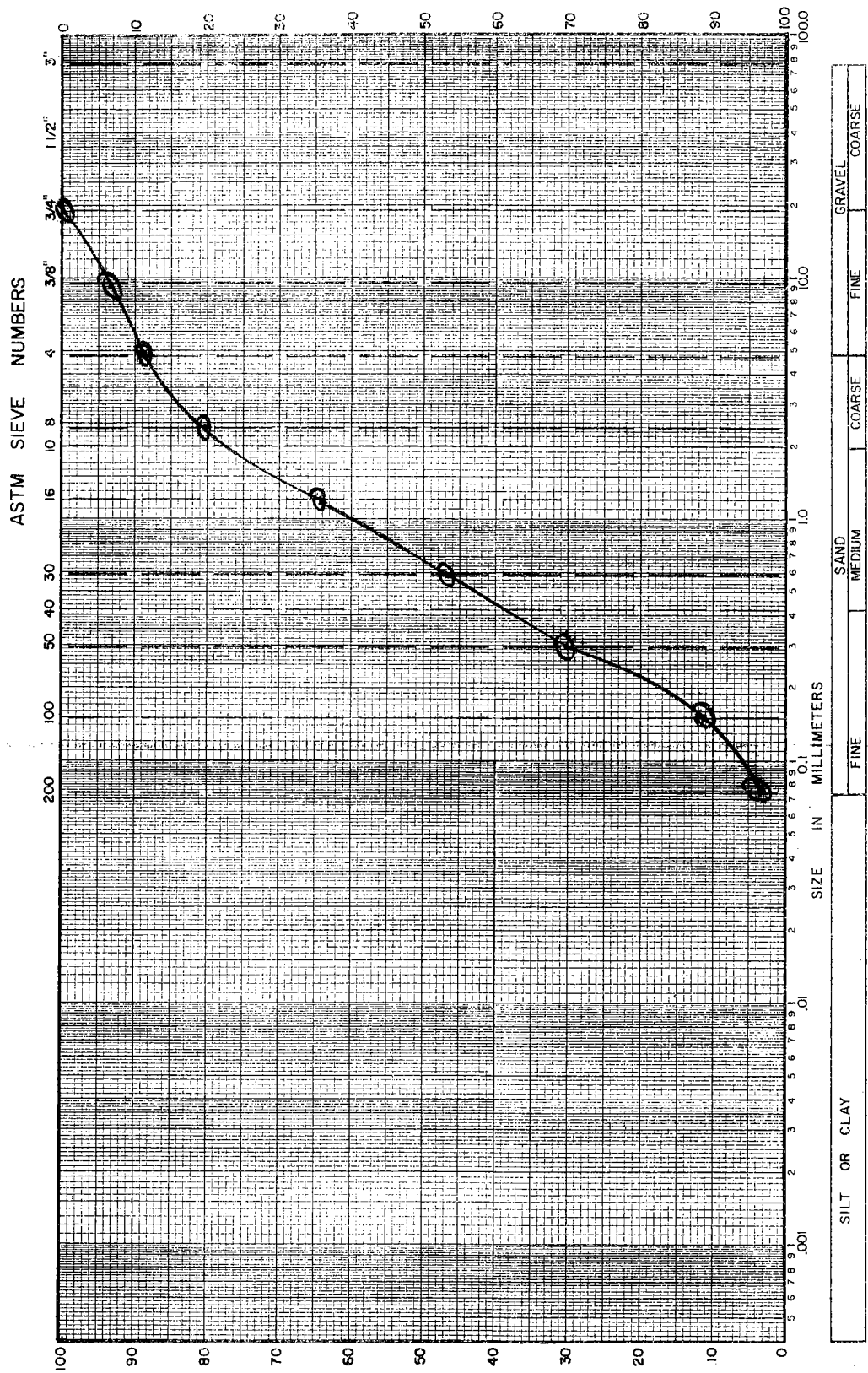
Note: Cross out sieve numbers not used.

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

LAB. SERIAL NO. 22940
 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 84 mm
 % (+) NO. 4 / % (+) NO. 200 _____ D₁₀ _____ mm
 D₃₀ 0.3 mm D₆₀ 1.1 mm
 C_u = D₆₀/D₁₀ _____ PLOTTED BY RJ
 C_c = (D₃₀)² / (D₁₀ x D₆₀) _____ CHECKED BY RJ
1140 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

SW (55)

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22941 Total Weight of Sample 2.15 lbs.
 Project STOUGH DB _____ grams.
 Station _____ Moisture Content of Fines _____ %.
 Location _____ Date Tested 3/11/69 Plotted By _____
 Boring No. 2 Sample No. _____ 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						
⅜"	9.52	0.12	1	6.0	6.0		
No. 4	4.76	0.23	.35	11.5	17.5	82.6	
Pan	0	1.80		xxxxx			
Total Fractions		2.15		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.66		82.6			
Total Oven-Dry		2.01		100.00			

Moisture Determination of Fines:
 Cup No. 3
 Dry Weight 1.662 grams
 Moisture 8.5 %

WEIGHT, GRAMS 1.66 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 92.1 grams.
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 111.4 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	20.8	18.7	36.2		
16	1.19	36.3	32.6	68.8		
30	0.59	16.2	14.5	83.3		
50	.297	6.0	5.4	88.7		
100	.149	7.0	6.3	95.0		
200	.074	2.7	2.4	97.7	23	
Pan	0	0.4				
Total Fractions		89.4				
Total Dry Weight After Wet Sieving		89.4	80.2			
Sieve Loss-Gain						

Calculated by AR Date 3/17/69
 Checked by SAF Date 3/18/69

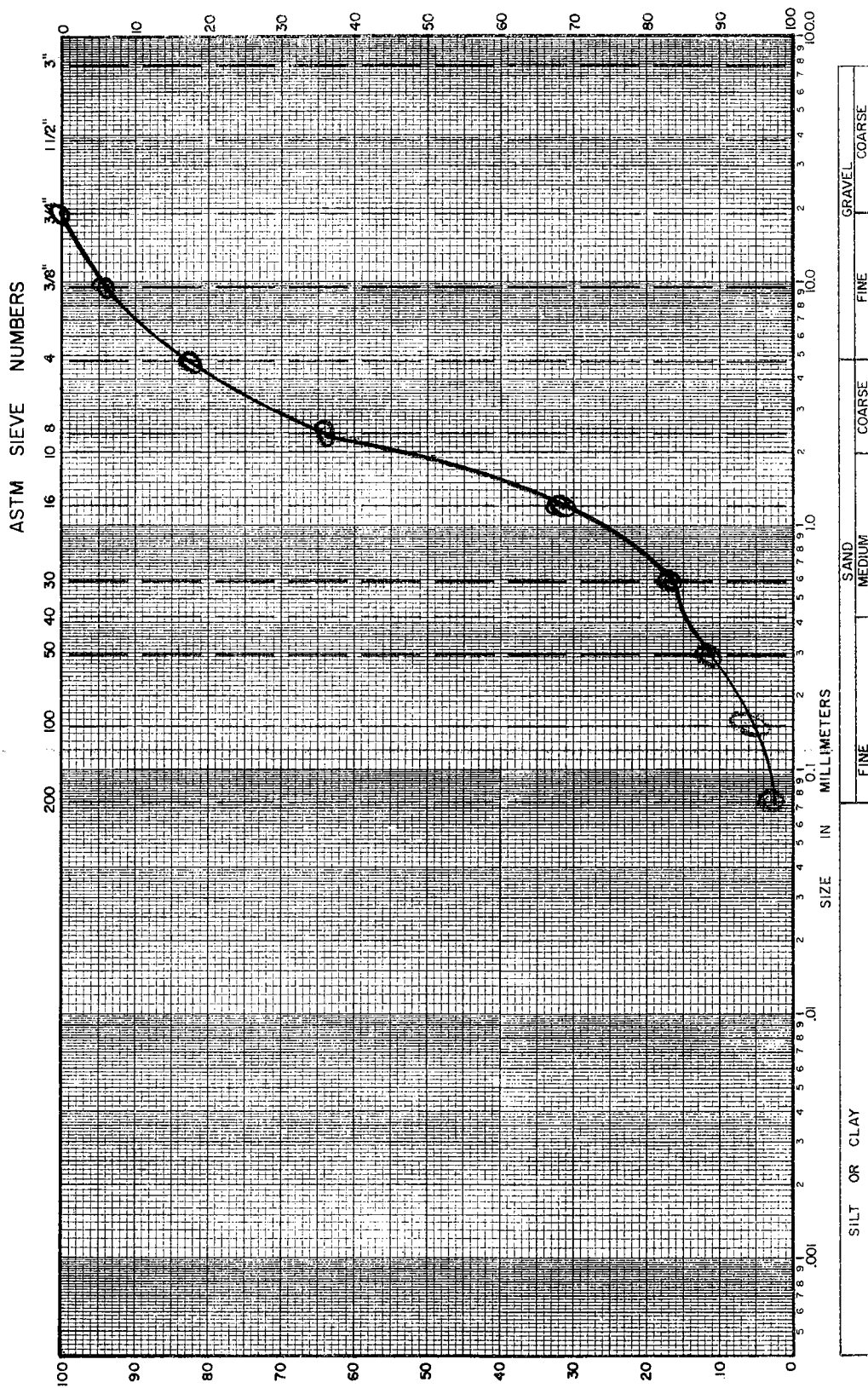
Note: Cross out sieve numbers not used.

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

LAB. SERIAL NO. 22941
 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} 0.26 mm
 D_{30} 1.2 mm D_{60} 2.2 mm
 $C_u = D_{60}/D_{10}$ 8.5 PLOTTED BY NR
 $C_c = (D_{30})^2$ 2.5 CHECKED BY SHF
 $D_{10} \times D_{60}$ _____ DATE 3/18/69
 GROUP SYMBOL SK1
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



5

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SP (55)

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22942 Total Weight of Sample 2.01 lbs.
 Project STOUGH DB _____ grams.
 Station _____ Moisture Content of Fines _____ %.
 Location _____ Date Tested 3/11/69 Plotted By _____
 Boring No. 3 Sample No. _____ Remarks NP
 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	1.07		3.8	3.8		
⅜"	9.52	1.20		10.8	14.6		
No. 4	4.76	1.24	51	13.0	27.6	72.4	
Pan	0	1.50		xxxxx			
Total Fractions		2.01		xxxxx			
Sieve Loss-Gain			51				
Calc. Oven-Dry Fines		1.34		72.4			
Total Oven-Dry		1.85		100.00			

Moisture Determination of Fines:
 Cup No. 28
 Dry Weight 163.5 grams
 Moisture 11.7 %

FINES (Minus No. 4)

WEIGHT, GRAMS 1.00 (CALC.) OVEN-DRY WEIGHT 89.5 grams.
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 123.8 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	13.0	10.5	38.1		
16	1.19	20.4	16.5	54.6		
30	0.59	24.4	19.7	74.3		
50	.297	16.9	13.7	88.0		
100	.149	10.0	8.1	96.1		
200	.074	2.2	1.8	97.6	2.4	
Pan	0	1.2				
Total Fractions		87.1				
Total Dry Weight After Wet Sieving		86.7	70.0			
Sieve Loss-Gain		+1.4				

Calculated by NR Date 3/20/69
 Checked by RST Date 3/20/69

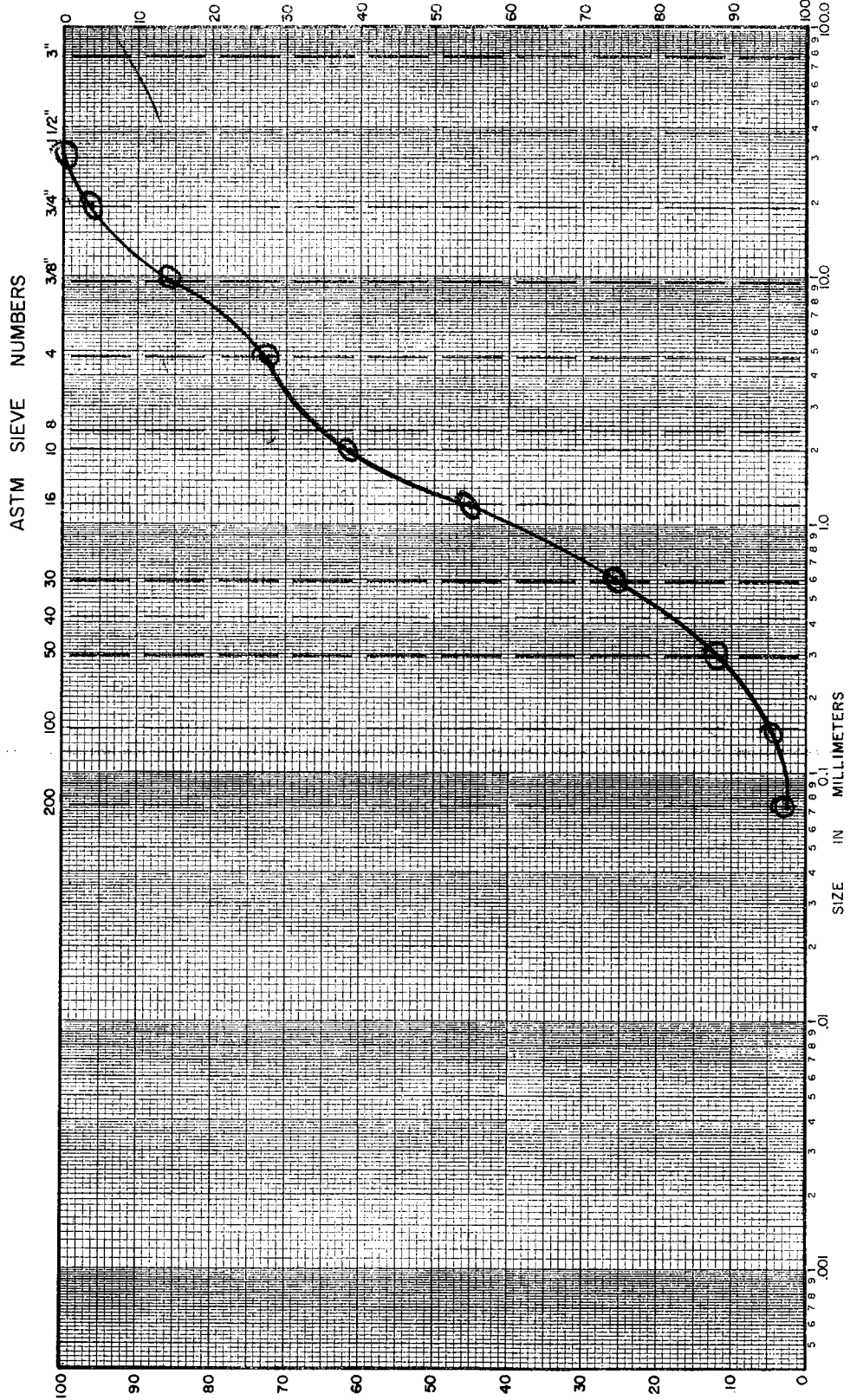
Note: Cross out sieve numbers not used.

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

LAB. SERIAL NO. 22942
 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. 40 _____
 % (+) NO. 4 / % (+) NO. 200 _____ D₉₀ 1.25 mm
 D₃₀ _____ mm D₆₀ 1.18 mm
 C_u = D₆₀ / D₁₀ _____ PLOTTED BY BJI
 C_c = (D₃₀)² / (D₁₀ x D₆₀) _____ CHECKED BY BJI
 GROUP SYMBOL _____ DATE 3/20/69
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



SILT OR CLAY	FINES	SAND	GRAVEL
	FINE	MEDIUM	COARSE
		COARSE	FINE
			COARSE

59