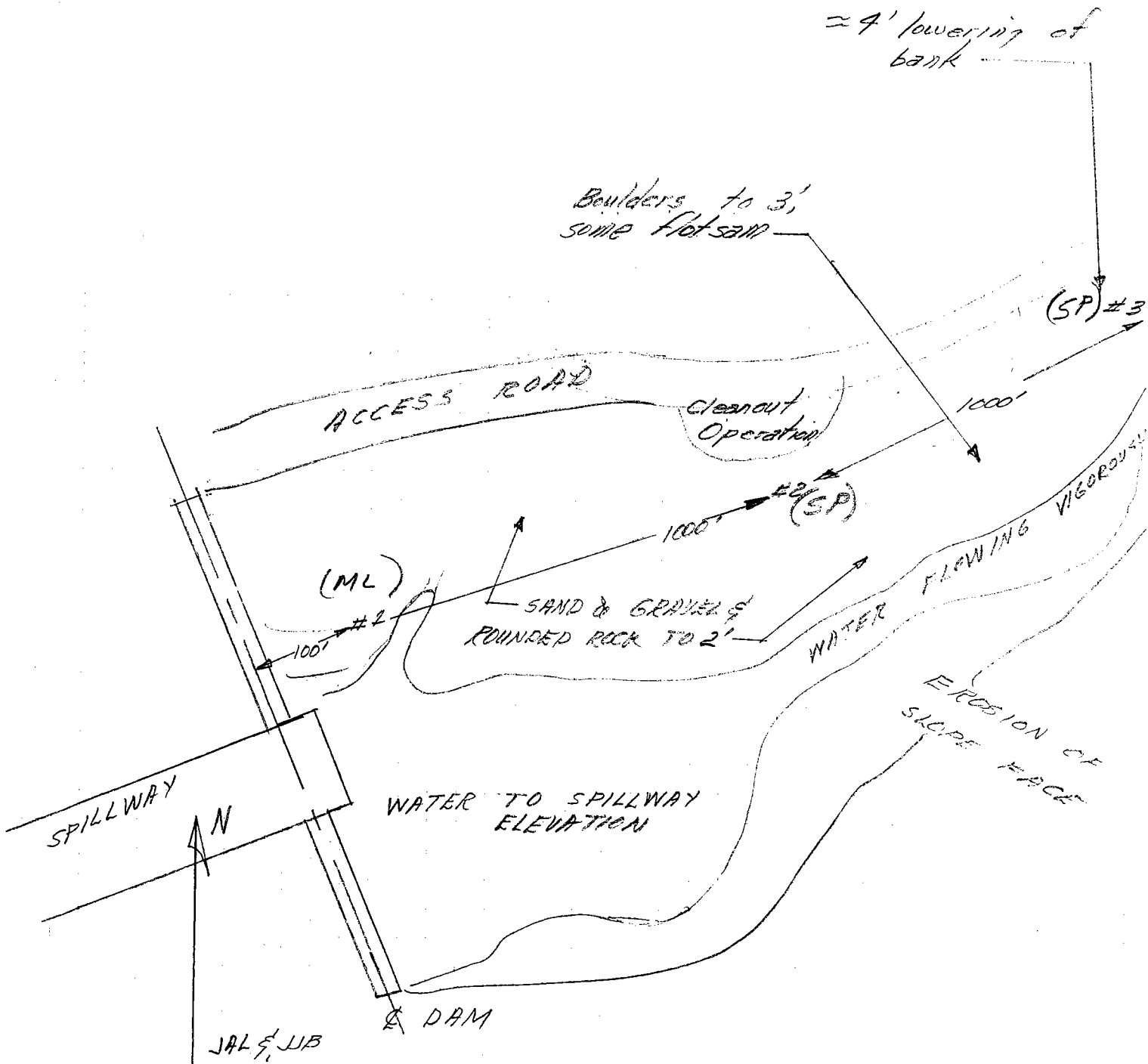


Big Dalton Wash Debris Basin

2/29/69
From 2/21/69 and
2/29/69

(5)



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SP (5)

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22927 Total Weight of Sample 1.06 lbs.
 Project BIG DALTON _____ grams.
 Station _____ Moisture Content of Fines _____ %.
 Location _____ Date Tested 2/26 Plotted By FK
 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	0.04		3.9	3.9		
⅜"	9.52	0.14		13.7	17.6		
No. 4	4.76	0.18	36	17.6	35.2	64.7	
Pan	0	0.70		xxxxx			
Total Fractions		1.06		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		66		64.7			
Total Oven-Dry		1.02		100.00			

Moisture Determination of Fines:
 Cup No. 60
 Dry Weight 168.3 grams
 Moisture 6.0 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 94.3 grams.
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 145.7 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	18.0	12.4	47.6		
16	1.19	16.6	11.4	59.0		
30	0.59	24.8	17.0	76.0		
50	.297	18.2	12.5	88.5		
100	.149	9.4	6.5	95.0		
200	.074	3.4	2.3	97.8	2.2	
Pan	0	0.8				
Total Fractions		91.2				
Total Dry Weight After Wet Sieving		211.4	63.6			
Sieve Loss-Gain		120.2				

Calculated by NR Date 2/27
 Checked by SHE Date 2/28/69

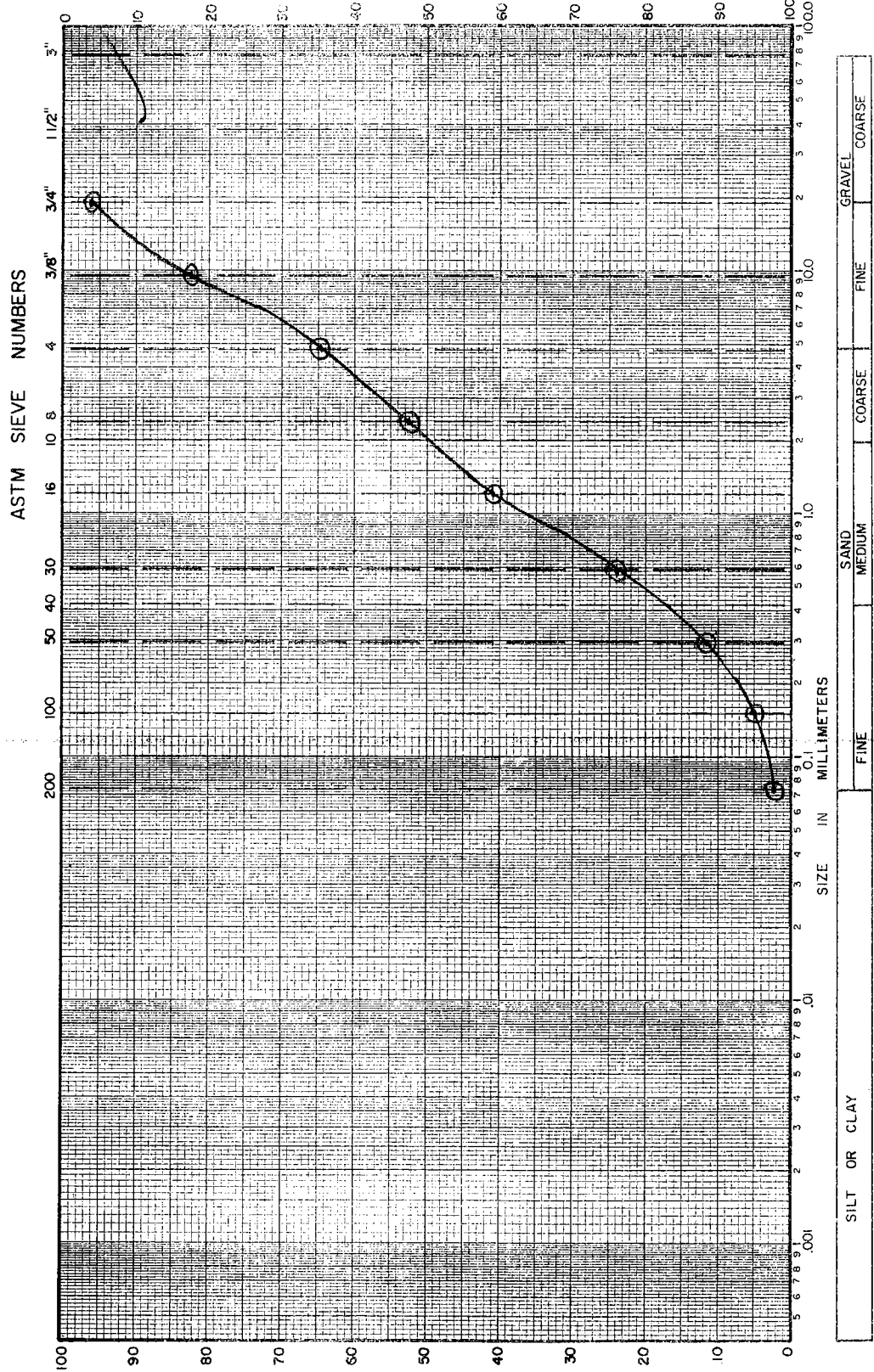
Note: Cross out sieve numbers not used.

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} 0.75 mm
 D_{30} 0.8 mm D_{60} 1.38 mm
 $C_u = D_{60}/D_{10}$ _____ PLOTTED BY EK
 $C_c = (D_{30})^2 / (D_{10} \times D_{60})$ _____ CHECKED BY RI
 GROUP SYMBOL _____ DATE 2/29/61
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



SILT OR CLAY		SAND		GRAVEL	
FINE	MEDIUM	FINE	COARSE	FINE	COARSE

5

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SP 5

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22926
Project BIG DALTON D.B.
Station _____
Location _____
Boring No. _____ Sample No. 2
Sampled By JB Lab Tested By FKR

Total Weight of Sample 123 lbs.
_____ grams.
Moisture Content of Fines _____ %.
Date Tested 3-4-69 Plotted By _____
Remarks N
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	0.22		18.6	18.6		
(1")	(25.4)	—		—	18.6		
3/4"	19.1	—		—	18.6		
3/8"	9.52	0.21		17.8	36.4		
No. 4	4.76	0.15	58	12.7	49.1	50.8	
Pan	0	0.65		xxxxx			
Total Fractions		1.23		xxxxx			
Sieve Loss-Gain		—					
Calc. Oven-Dry Fines		.60		50.8			
Total Oven-Dry		1.18		100.00			

Moisture Determination of Fines:
Cup No. 60
Dry Weight 165.7 grams
Moisture 9.1 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 91.7 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 180.5 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	14.0	7.8	56.9		
16	1.19	20.2	11.2	68.1		
30	0.59	22.5	12.5	80.6		
50	.297	19.3	10.7	91.3		
100	.149	10.0	5.5	96.8		
200	.074	2.4	1.3	98.6	1.4	
Pan	0	0.3				
Total Fractions		88.7				
Total Dry Weight After Wet Sieving		89.3	49.5			
Sieve Loss-Gain		-.6				

Calculated by NR Date 3/5/69
Checked by SHF Date 3/6/69

Note: Cross out sieve numbers not used.
209.5
120.2

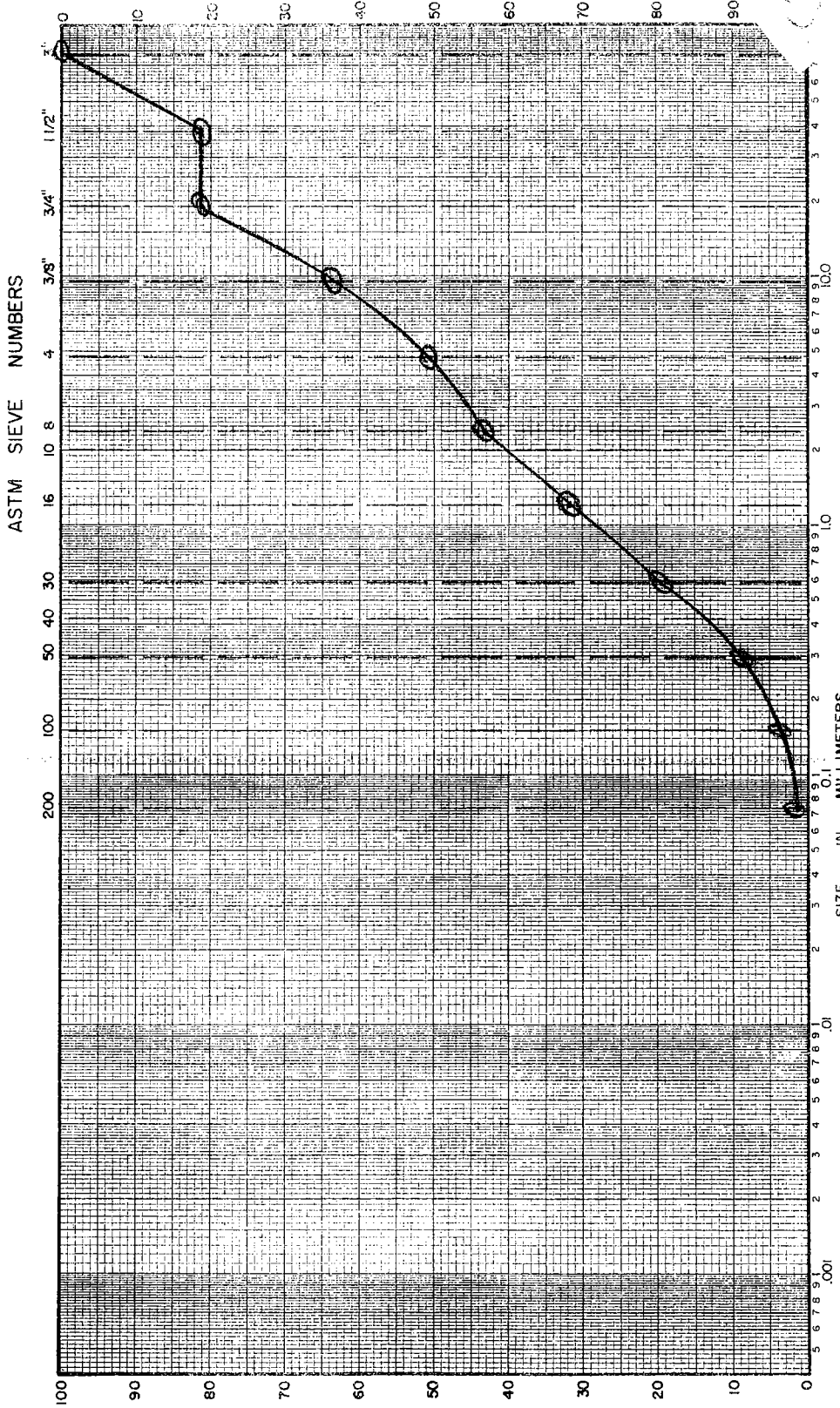
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division
MECHANICAL ANALYSIS

LAB. SERIAL NO. 22226
 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 _____ mm _____
 Cu = D₆₀/D₁₀ _____ PLOTTED BY NR
 Cc = (D₃₀)² / (D₁₀ x D₆₀) _____ CHECKED BY SHF
264 _____ DATE 3/6/69
 GROUP SYMBOL _____

NOTE: D_x = PARTICLE DIA. AT X% PASSING



SILT OR CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	GRAVEL
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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

ML ✓ (5)

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22896
Project BIG DALTON
Station _____
Location _____
Boring No. 1 Sample No. _____
Sampled By _____ Lab Tested By AR

Total Weight of Sample _____ lbs.
_____ grams.
Moisture Content of Fines _____ %.
Date Tested 3/12 Plotted By _____
Remarks AP
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			—	—	1000	
Pan	0	1.04		xxxxx			
Total Fractions		1.04		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		0.73		100.0			
Total Oven-Dry		0.73		100.00			

Moisture Determination of Fines:
Cup No. 65
Dry Weight 143.9 grams
Moisture 43.1 %

WEIGHT, GRAMS 100 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 69.9 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 69.9 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38					
16	1.19					
30	0.59					
50	.297					
100	.149	0.1	0.1	0.1		
200	.074	0.1	0.1	0.3	99.7	
Pan	0	—				
Total Fractions		0.2				
Total Dry Weight After Wet Sieving <u>120.4</u>		0.2	0.3			
Sieve Loss-Gain						

Calculated by AR Date 3/18/09
Checked by RJT Date 3/20/09

Note: Cross out sieve numbers not used.

#2 (5)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Foundation and Testing Division

HYDROMETER ANALYSIS WORK SHEET
ASTM Method D422-54T
(Modified)

LAB. SERIAL NO. 22896
Project _____
Limits _____
Boring _____ Sample _____
Depth _____
Sampled by _____ Date _____
Field Description _____

Initial Weight of Sample Passing
No. 4 Sieve _____ grams

Remarks _____

Set up by RA Date 3/12/69
Lab. Tested by RA Date 3/13/69

Moisture Cup No. 65
Dry Weight, grams 1439
Moisture Content, % _____
Oven-Dry Weight
Passing No. 4 grams _____
Percent Passing No. 4 _____; No. 10 _____ = P10
Oven-Dry Weight of total
Sample represented 69.9 grams
W = _____ grams

Type Calgon
Dispersing Volume, cc 125
Agent Strength, % 7.0
Correction, gm/l = C_d _____
Soil Specific Gravity = G 2.65
S. G. Correction factor = a 1
Meniscus correction, gm/l = C_m +1.3 (-5.7)
Peroxide Treatment Used (Yes) (No) _____
HYDROMETER NO. _____ JAR NO. _____

11:31:30 STR
11:32:50 STR

Time	11:31:30 STR 11:32:50 STR	11:33	11:36	11:48	12:36	3:48	8:32	
Temperature, °C		20.0	20.0	20.0	20.0	19.9	20.1	
Temp. correc. Factor = C _t		0	0	0	0	0	0	
Elapsed Time, Minutes = T		1	4	16	64	256	1260	
Hydrometer Reading, gm/l = R		52.0	31.5	18.0	13.0	11.5	10.0	
Effective Depth, cm = L		2.79	3.34	3.65	3.77	3.795	3.83	
Total Correction C = C _d + C _m + C _t		-5.7						
Corrected Reading R _c = R + C		46.3	25.8	12.3	7.3	5.8	4.3	
K		101365						
Diameter in mm = D		.0391	.0228	.0124	.00613	.00324	.00153	.00147
Percent in Suspension = P		66.3	36.9	17.6	10.4	8.3	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 RA Date 3/18/69
Plotted by _____ Date _____

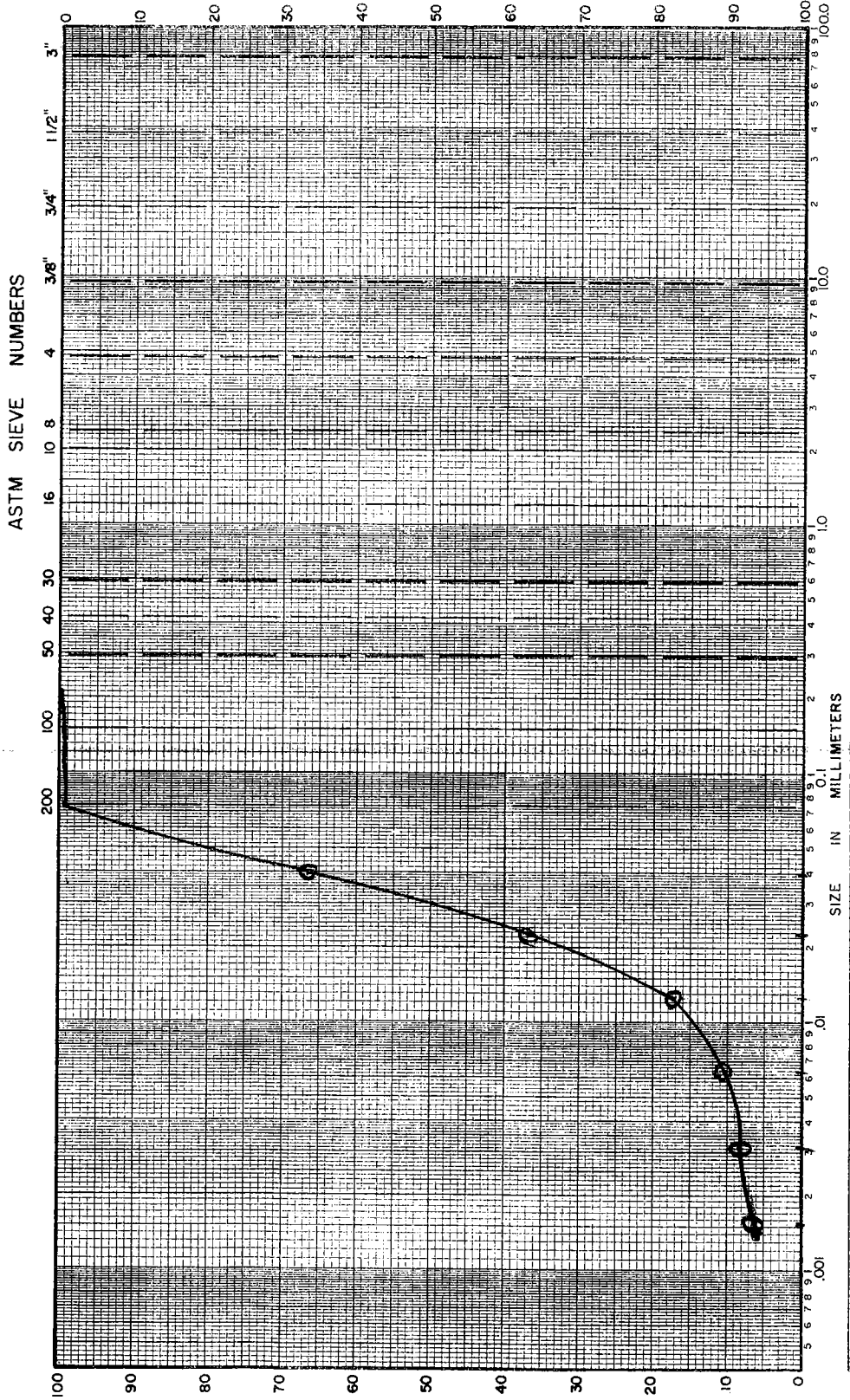
Checked by RA
Date 3/18

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

LAB. SERIAL NO. 22896
 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 _____ mm
 C_u = D₆₀ / D₁₀ _____ PLOTTED BY AR
 C_c = (D₃₀)² / (D₁₀ x D₆₀) _____ CHECKED BY RT
 GROUP SYMBOL _____ DATE 3/2/63
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



SILT OR CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	GRAVEL
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