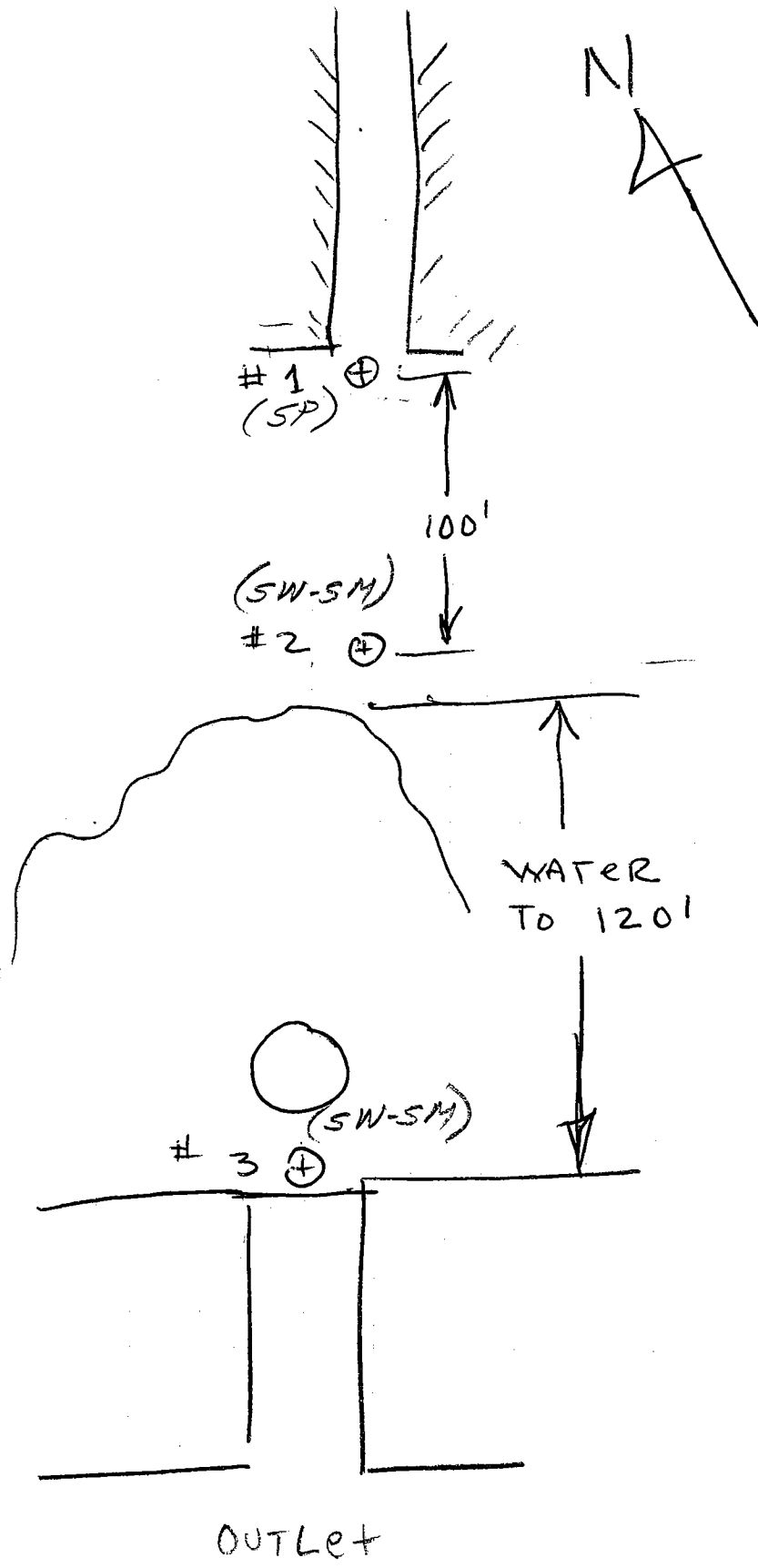


HOOK DEBRIS BASIN
EAST FORK



SP (56)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22872
Project HOOKS DB. (E. FUNK)
Station _____
Location _____
Boring No. _____ Sample No. 1
Sampled By JB Lab Tested By FK-NR

Total Weight of Sample _____ lbs.
_____ grams.
Moisture Content of Fines _____ %.
Date Tested 3-3 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						
1 1/2"	38.1						
(1")	(25.4)						
3/4"	19.1	0.11		7.8	7.8		
3/8"	9.52	0.15		10.6	18.4		
No. 4	4.76	0.22	148	15.6	34.0	66.0	
Pan	0	1.00		xxxxx			
Total Fractions		1.48		xxxxx			
Sieve Loss-Gain		—					
Calc. Oven-Dry Fines		0.93		66.0			
Total Oven-Dry		1.41		100.00			

Moisture Determination of Fines:
Cup No. 50
Dry Weight 167.4 grams
Moisture 7.1 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 93.4 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 141.5 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	16.7	11.8	45.8		
16	1.19	26.2	18.5	64.3		
30	0.59	28.8	20.4	84.7		
50	.297	12.0	8.4	93.2		
100	.149	4.5	3.5	96.7		
200	.074	1.8	1.3	97.9	2.1	
Pan	0	—		98.0	2.0	
Total Fractions		90.4				
Total Dry Weight After Wet Sieving		90.5	63.5			
Sieve Loss-Gain		+ 0.1	64.0			

Calculated by FK Date 3-5-69
Checked by SHF Date 3/6/69

Note: Cross out sieve numbers not used.

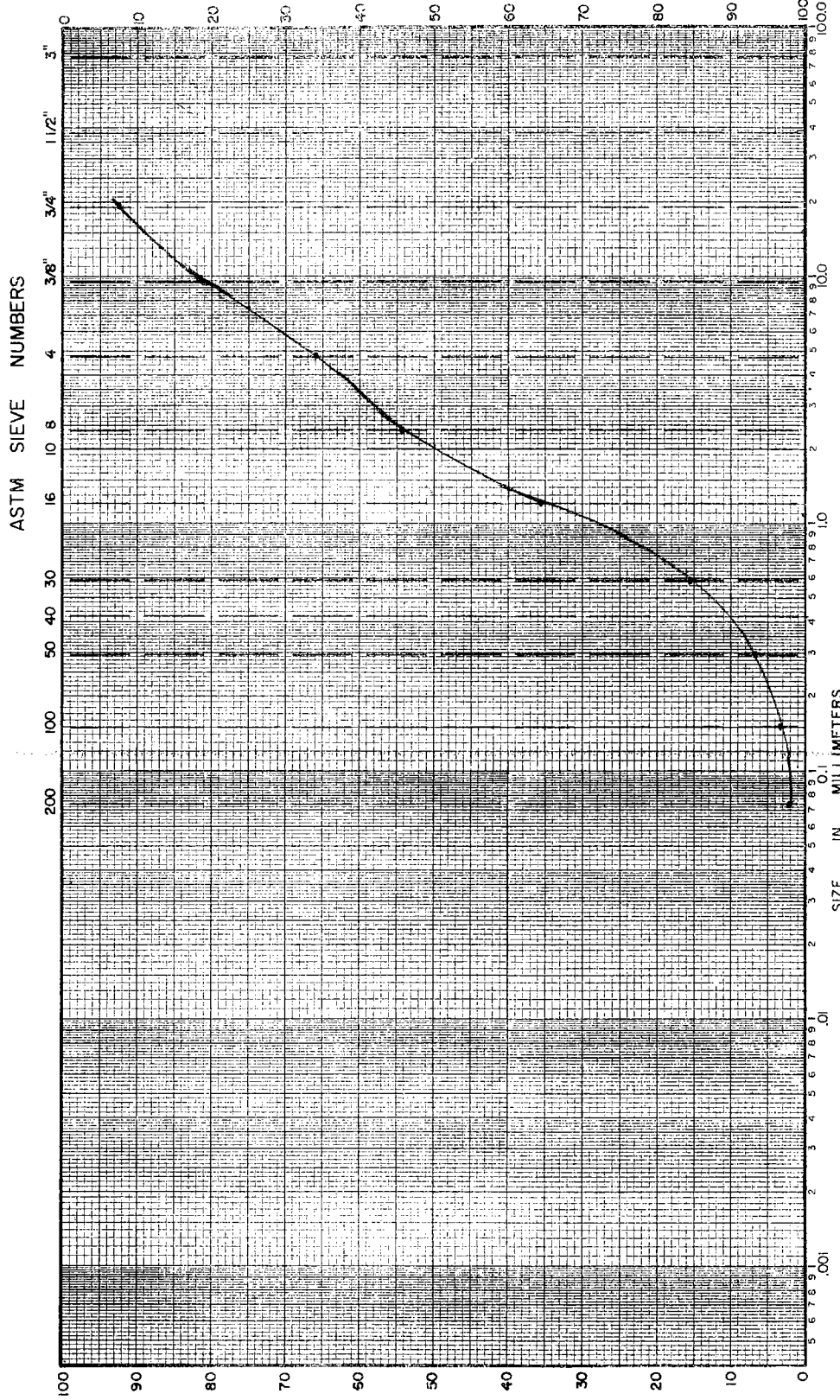
210.7
120.2

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

LAB. SERIAL NO. 22872
 JOB Hooks D.B. (E. Fork)
 BORING NO. _____ SAMPLE NO. 1
 STATION _____ DEPTH _____ FT.
 LOCATION _____
 SAMPLED BY JJB DATE _____
 FIELD CLASSIFICATION _____ BY _____
 PLAS. IND. _____ LIQ. LIM. _____
 REMARKS NON-PLASTIC

CLASSIFICATION DATA

PERCENT (+) NO. 200 _____ PERCENT (+) NO. 4 _____
 % (+) NO. 4 / % (+) NO. 200 _____ D_{10} 0.4 mm
 D_{30} _____ mm D_{60} _____ mm
 $Cu = D_{60}/D_{10}$ 8.8 PLOTTED BY MTV
 $Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ 0.91 CHECKED BY HF
 GROUP SYMBOL SP DATE 3-5-69
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



SILT OR CLAY FINE SAND COARSE FINE GRAVEL COARSE

26

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

76 SW
SM-SP

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22873
Project HOOKS D.B. (E. Fork)
Station _____
Location _____
Boring No. _____ Sample No. 2
Sampled By JJB Lab Tested By FK-NR

Total Weight of Sample 1.41 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						
1½"	38.1						
(1")	(25.4)						
¾"	19.1	0.08		6.2	6.2		
⅜"	9.52	0.11		8.5	14.7		
No. 4	4.76	0.26	.45	20.0	34.7	65.4	
Pan	0	0.96		xxxxx			
Total Fractions		1.41		xxxxx	Moisture Determination of Fines:		
Sieve Loss-Gain					Cup No. <u>15</u>		
Calc. Oven-Dry Fines		.85		65.4	Dry Weight <u>162.1</u> grams		
Total Oven-Dry		1.30		100.00	Moisture <u>13.5</u> %		

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 88.1 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 134.7 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	24.6	18.3	53.0		
16	1.19	27.0	20.0	73.0		
30	0.59	13.8	10.2	83.2		
50	.297	7.3	5.4	88.6		
100	.149	4.7	3.5	92.1		
200	.074	2.2	1.6	94.2	5.8	
Pan	0	0.5				
Total Fractions		80.1				
Total Dry Weight After Wet Sieving		80.1	59.5			
Sieve Loss-Gain		-				

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

Note: Cross out sieve numbers not used.
200.3
120.2

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 _____ mm

Cu = D₆₀/D₁₀ _____ PLOTTED BY _____

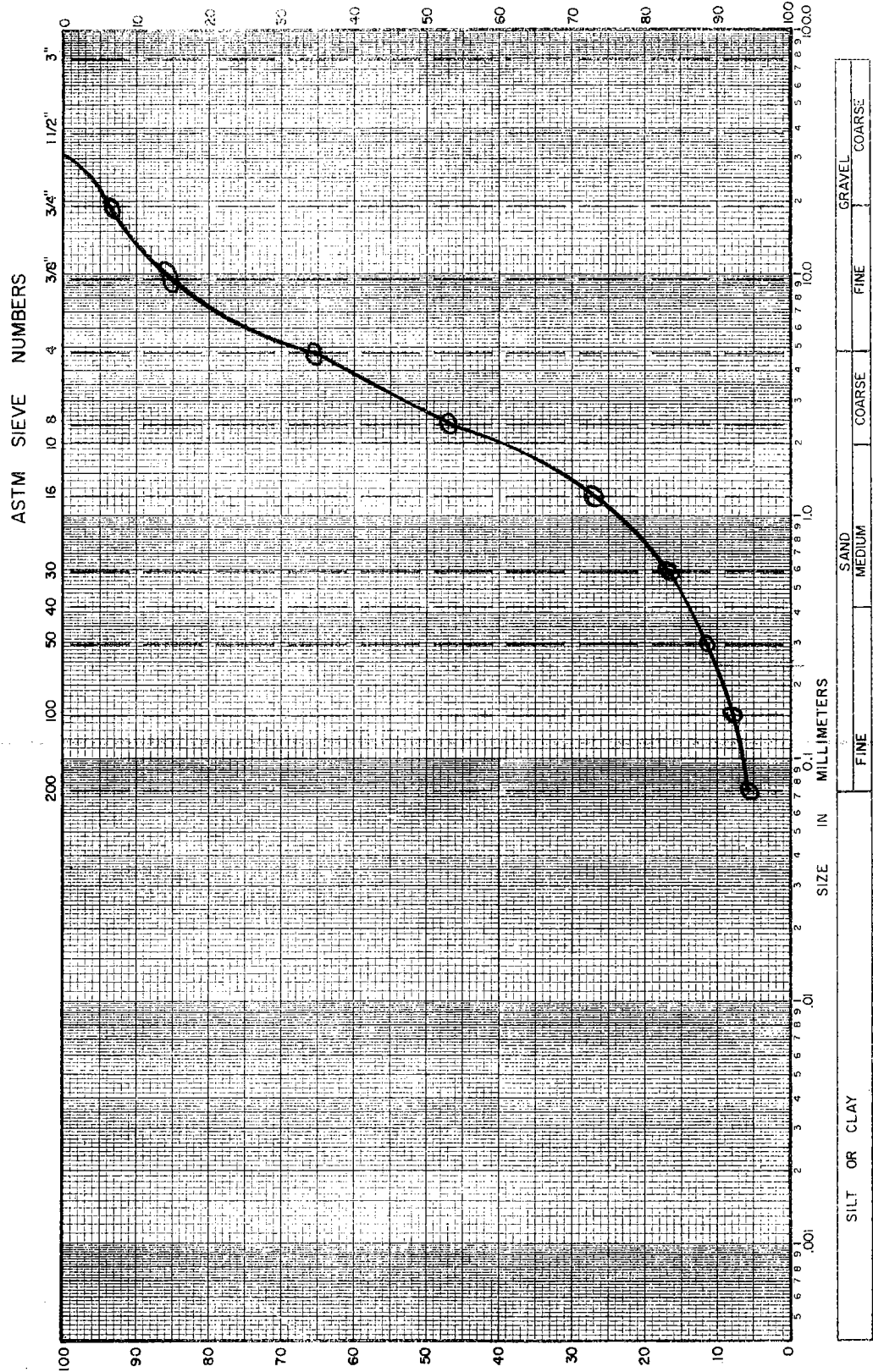
Cc = (D₃₀)² / (D₁₀ x D₆₀) _____ CHECKED BY _____

1.96 _____ DATE 3/6/60

1.972 _____

GROUP SYMBOL _____

NOTE: D_x = PARTICLE DIA. AT X% PASSING



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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SM-SW

26

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. HOOD 22874 Total Weight of Sample _____ lbs.
 Project HOOK DEBRIS E Fall _____ grams.
 Station _____ Moisture Content of Fines _____ %.
 Location _____ Date Tested 3/12 Plotted By _____
 Boring No. _____ Sample No. _____ Remarks _____
 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						
1 1/2"	38.1						
(1")	(25.4)						
3/4"	19.1	31		21.7	21.7		
3/8"	9.52	09		6.3	28.0		
No. 4	4.76	10	50	7.0	35.0	65.0	
Pan	0	1.22		xxxxx			
Total Fractions		1.72		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.93		65.0			
Total Oven-Dry		1.43		100.00			

Moisture Determination of Fines: wet wt = 164.3
 -74.0
 90.3
 Cup No. 3
 Dry Weight 152.6 grams
 174.0 - 21.4
 152.6 - 68.9
 21.4
 Moisture 31.1 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 76.3 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	7.6	6.5	41.5		
16	1.19	14.0	11.9	52.4		
30	0.59	14.6	12.4	64.8		
50	.297	9.9	8.4	73.2		
100	.149	9.4	8.0	81.2		
200	.074	7.2	6.1	88.6	11.4	
Pan	0	0.3				
Total Fractions		63.0				
Total Dry Weight After Wet Sieving		183.1 120.2	62.9	53.6		
Sieve Loss-Gain		+1				

Calculated by AR Date 3/24/69
 Checked by JJB Date 3/25/69

Note: Cross out sieve numbers not used.

* DURING WET SIEVING #200 SCREEN CAME APART AT THE SEAMS.
 APPROX 1.5% OF THE +200 WAS LOST

96

3

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Foundation and Testing Division

HYDROMETER ANALYSIS WORK SHEET

ASTM Method D422-54T
(Modified)

LAB. SERIAL NO. 22874
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 3/12/69
Lab. Tested by NR Date 3/20/69

Moisture Cup No. 3
Dry Weight, grams 152.6
Moisture Content, % _____
Oven-Dry Weight
Passing No. 4 grams _____
Percent Passing No. 4 _____; No. 10 _____ = P₁₀
Oven-Dry Weight of total
Sample represented,
W = 117.4 grams

Type Calgon
Dispersing Volume, cc 125
Agent Strength, % _____
Correction, gm/l = C_d -8.0
Soil Specific Gravity = G 2.65
S. G. Correction factor = a 1.0 -6.7
Meniscus correction, gm/l = C_m +1.3
Peroxide Treatment Used (Yes) (No)
HYDROMETER NO. _____ JAR NO. _____

11:37:30 STR
11:38 START

Time	11:39	11:42	11:54	12:42	3:54	8:38	
Temperature, °C	20.0	20.0	19.6	20.6	20.6	20.0	
Temp. correc. Factor = C _t	0	0	-1	+1	+1	0	
Elapsed Time, Minutes = T	1	4	16	64	256	1260	
Hydrometer Reading, gm/l = R	25.5	21.0	18.0	15.0	13.0	11.0	
Effective Depth, cm = L	3.475	3.59	3.65	3.71	3.77	3.81	
Total Correction C = C _d + C _m + C _t	-6.7	-6.7	-6.8	-6.6	-6.6	-6.7	
Corrected Reading R _c = R + C	18.8	14.3	11.2	8.4	6.4	4.3	
K	.01365	.01365	.01365	.01348	.01348	.01365	
Diameter in mm = D	.0475	.0243	.0125	.00626	.00317	.00146	
Percent in Suspension = P	16.0	12.2	9.5	7.2	5.5	3.7	
Percent of (-10) = P'							

$P = \frac{(R_c)(a)(100)}{(W)}$

$P' = \frac{(P)(100)}{(P_{10})}$

$D = K \sqrt{\frac{L}{T}}$

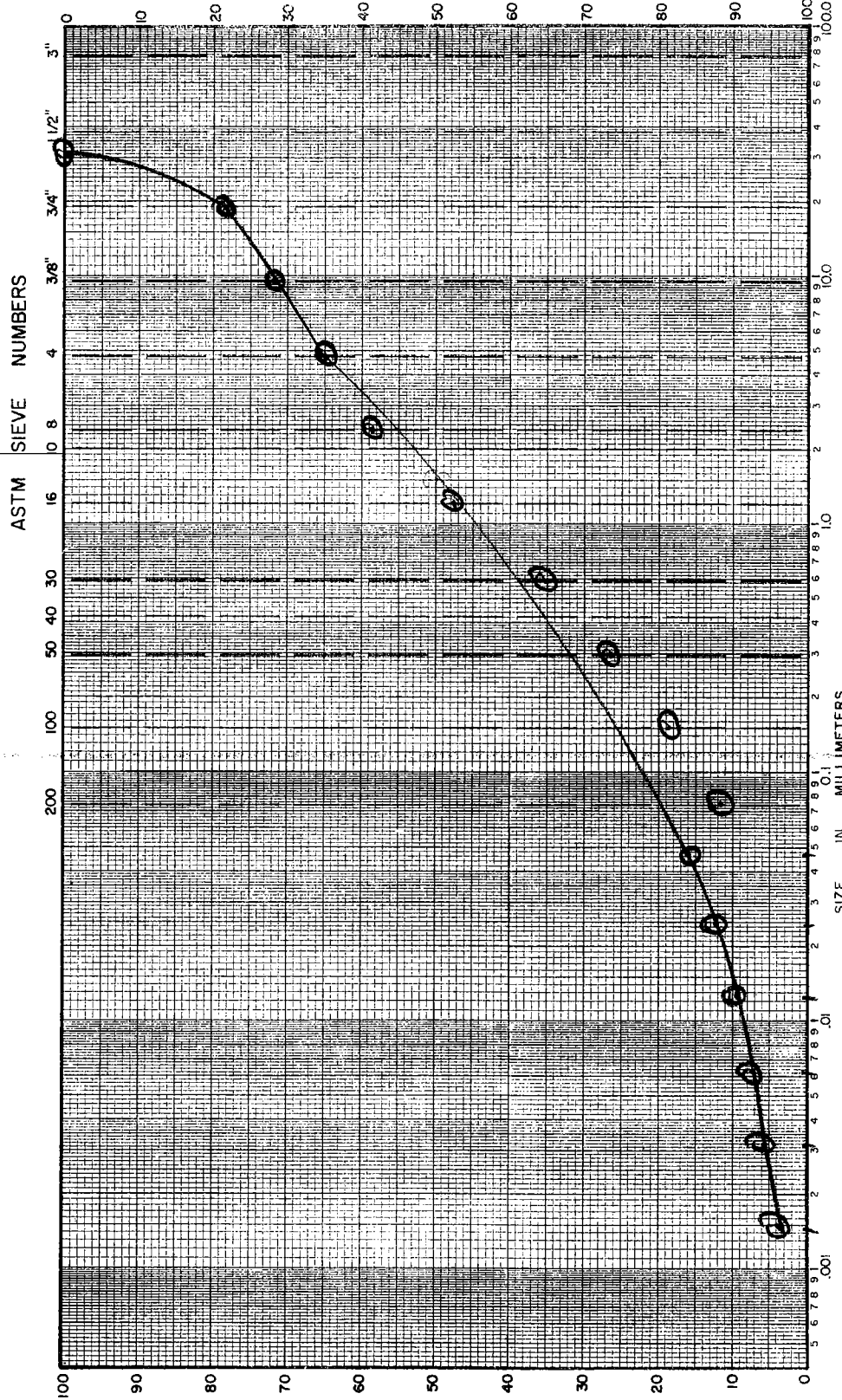
Computed by NR Date 3/24/69
Plotted by _____ Date _____

Checked by JB
Date 3/25/69

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

LAB. SERIAL NO. 22874
 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 0.15 mm
 D₃₀ 0.25 mm D₆₀ 0.4 mm
 C_u = D₆₀/D₁₀ 2.7 PLOTTED BY LR
 C_c = (D₃₀)² / (D₁₀ x D₆₀) 1.2 CHECKED BY _____
 GROUP SYMBOL _____ DATE _____
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



SILT OR CLAY	FINE	SAND MEDIUM	COARSE	FINE	GRAVEL COARSE
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