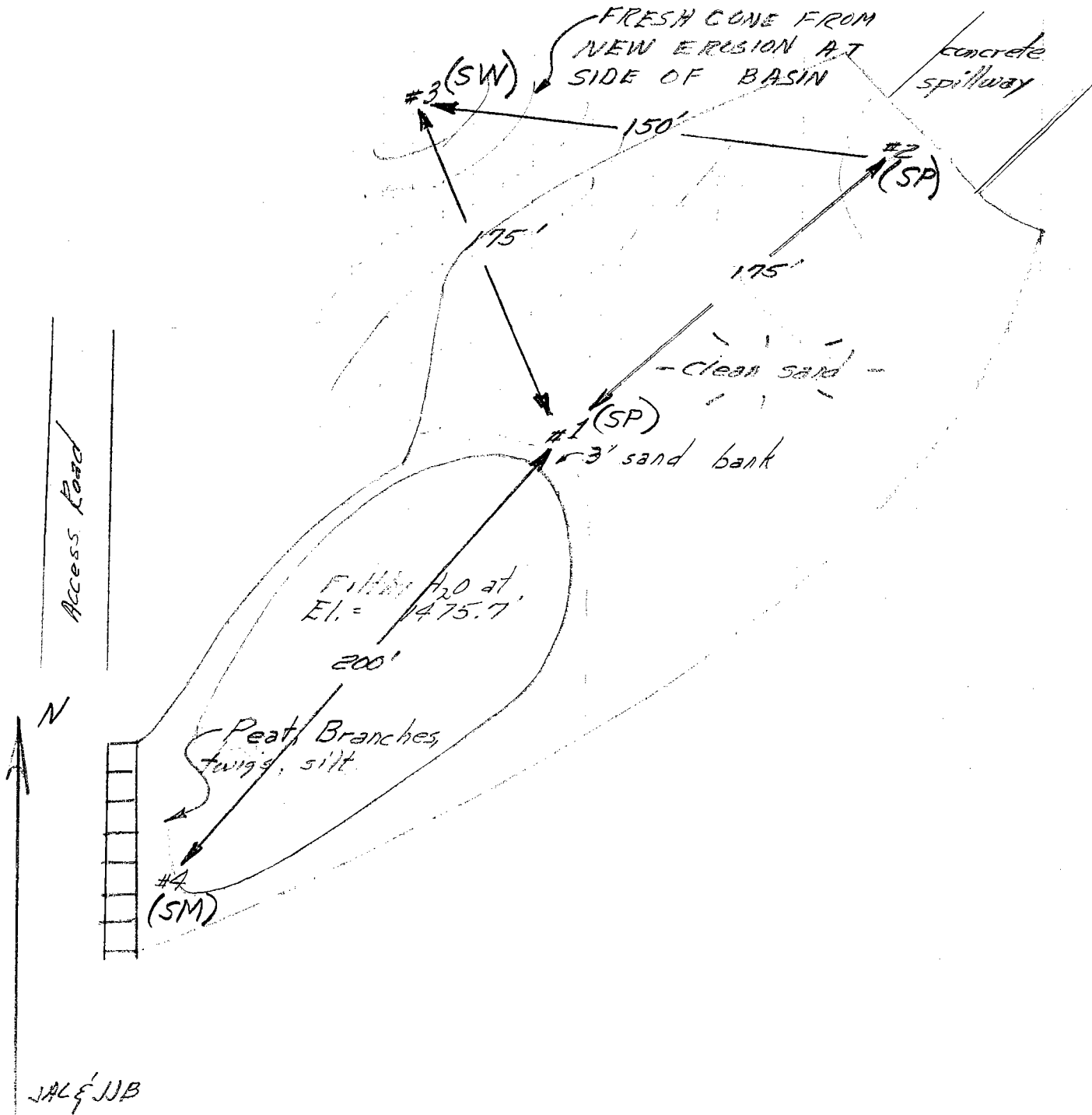


West Ravine Debris Basin

2/25/69
from 2/13/69

(61)



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SP (61)

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22814 Total Weight of Sample 248 lbs.
 Project WEST RAVINE DB INLET grams.
 REACH Station 175' DS INLET Moisture Content of Fines _____ %
 Location SAMPLE 1 DEPTH 1' Date Tested 2/14/69 Plotted By _____
 Boring No. _____ Sample No. _____ Remarks NEW PLASTER
 Sampled By WJB-JAL Lab Tested By AR-FK 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	0.15		6.2	8.3		
No. 4	4.76	0.85	0.55	14.5	22.8	77.3	
Pan	0	1.93		xxxxx			
Total Fractions		2.48		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.87		77.3			
Total Oven-Dry		2.42		100.00			

Moisture Determination of Fines:
Cup No. 18
Dry Weight 171.0 grams
Moisture 3.1 %

FINES (Minus No. 4)

WEIGHT, GRAMS 300 (CALC.) OVEN-DRY WEIGHT 291.0 grams.
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 376.5 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	63.2	16.8	39.6		
16	1.19	98.1	26.1	65.7		
30	0.59	69.7	18.5	84.2		
50	.297	30.4	8.1	92.3		
100	.149	17.3	4.6	96.9		
200	.074	6.8	1.8	98.6	1.4	
Pan	0	0.3				
Total Fractions		285.8				
Total Dry Weight After Wet Sieving		285.4	75.8			
Sieve Loss-Gain		+ 0.4				

Calculated by AR Date 2/24/69
 Checked by SNF Date 2/27/69

Note: Cross out sieve numbers not used.

200
121.5
285

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

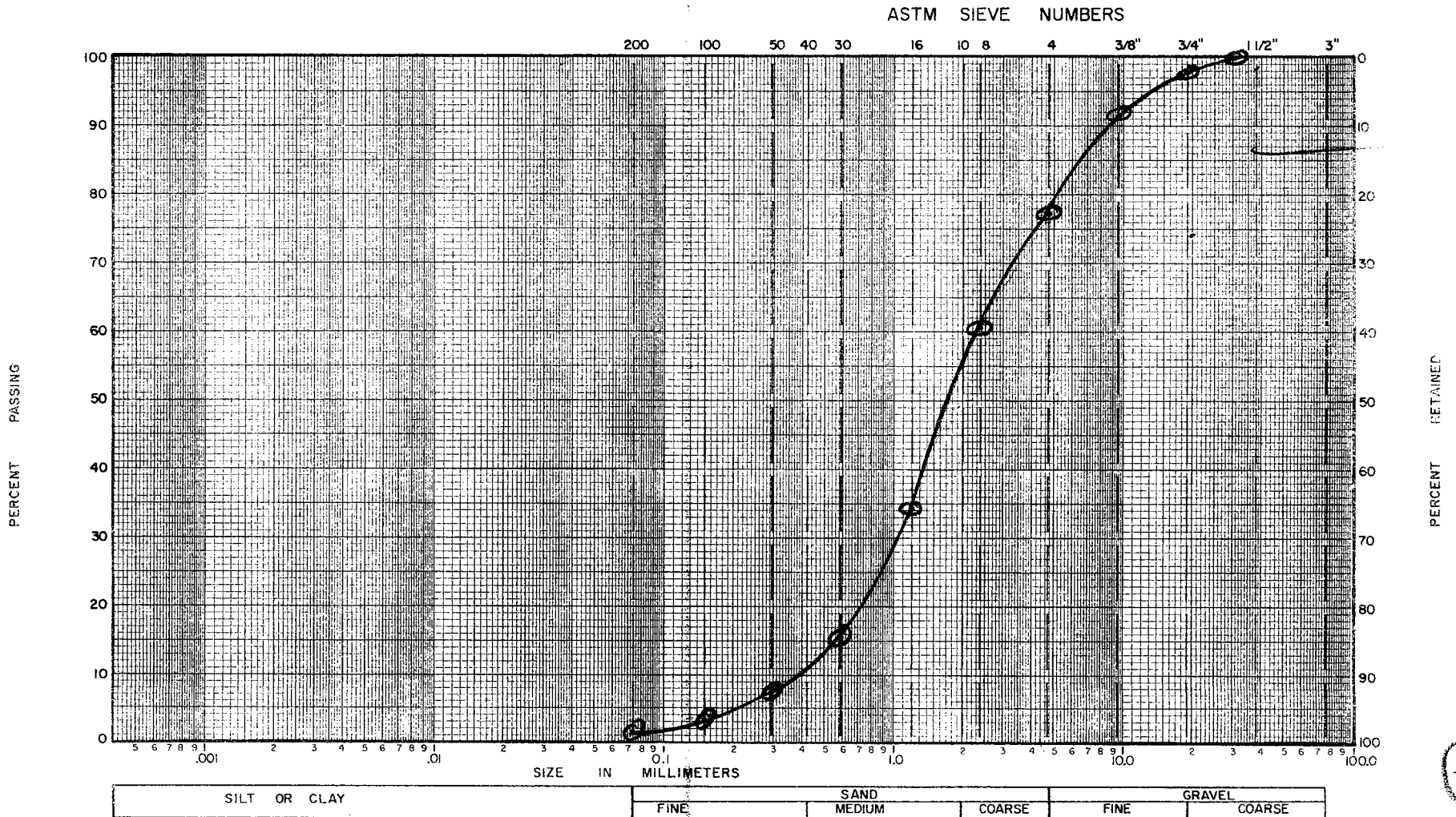
Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22814
 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} 0.40 mm
 D_{30} _____ mm D_{60} 2.3 mm
 $C_u = D_{60} / D_{10}$ _____ PLOTTED BY NR
 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ _____ CHECKED BY RJT
 GROUP SYMBOL _____ DATE 2/27/09
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



(19)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SP (61)

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22815 Total Weight of Sample 2.41 lbs.
 Project WEST RAVINE DB _____ grams.
 Station BOTTOM ON INLET CK Moisture Content of Fines _____ %.
 Location _____ Date Tested 2/14/69 Plotted By _____
 Boring No. _____ Sample No. 2 Remarks NP
 Sampled By JAL-JUB Lab Tested By MR-FK 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	0.06		2.6	2.6		
⅜"	9.52	0.07		3.0	5.6		
No. 4	4.76	0.15	.28	6.5	12.1	87.9	
Pan	0	2.13		xxxxx			
Total Fractions		2.41		xxxxx			
Sieve Loss-Gain		-					
Calc. Oven-Dry Fines		2.03		87.9			
Total Oven-Dry		2.31		100.00			

Moisture Determination of Fines:
 Cup No. 45
 Dry Weight 169.3 grams
 Moisture 4.9 %

WEIGHT, GRAMS 300 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 286.0 grams.
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 325.4 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	33.8	10.4	22.5		
16	1.19	78.5	24.1	46.6		
30	0.59	103.4	31.8	78.4		
50	.297	48.2	14.8	93.2		
100	.149	15.5	4.8	98.0		
200	.074	4.3	1.3	99.4	0.6	
Pan	0	0.2				
Total Fractions		283.9				
Total Dry Weight After Wet Sieving		284.0	87.3			
Sieve Loss-Gain		-0.1				

Calculated by HP Date 2/24/69
 Checked by GHF Date 2/27/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

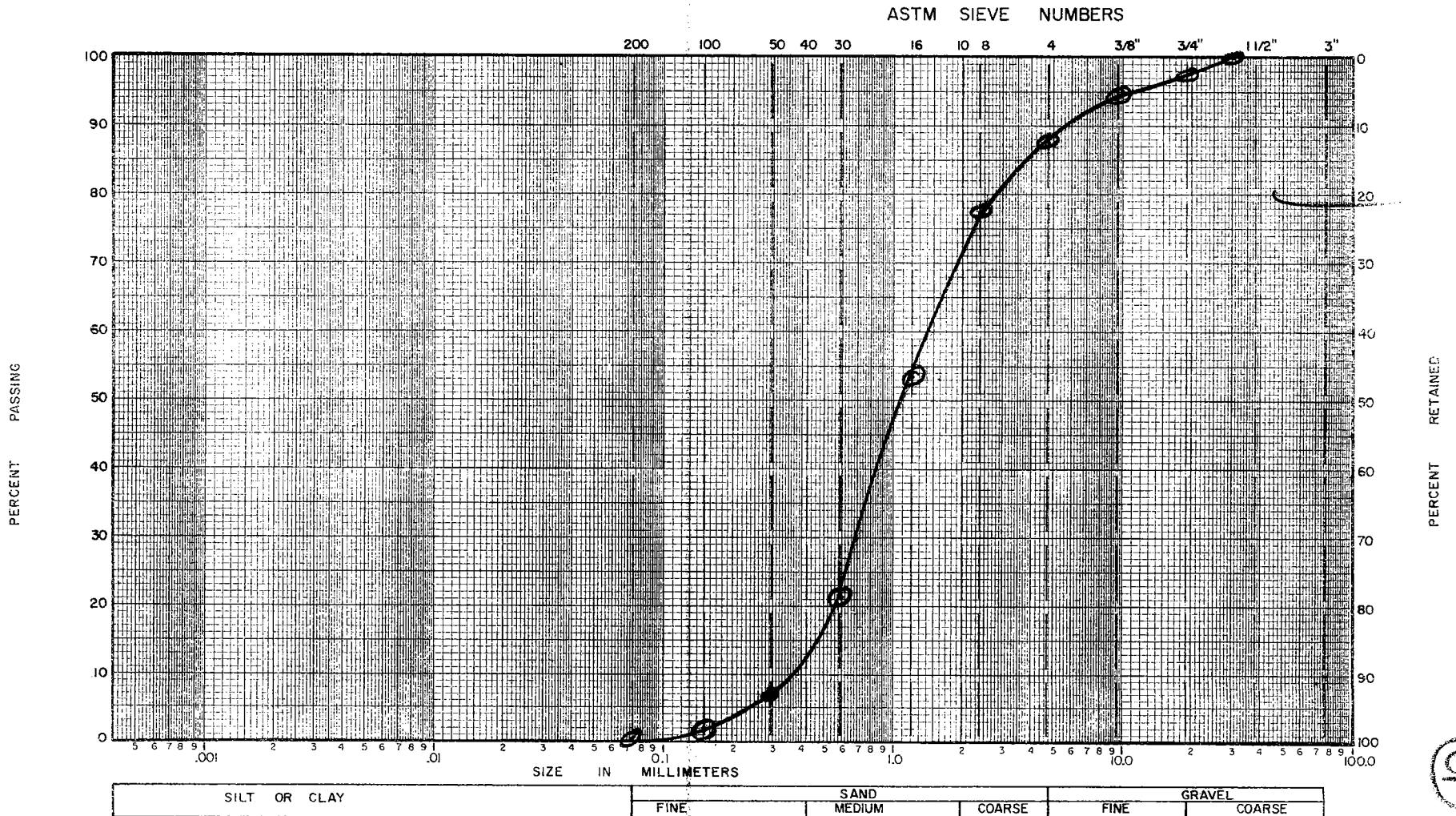
Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22815
 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} 36 mm
 D_{30} _____ mm D_{60} 1.4 mm
 $C_u = D_{60}/D_{10}$ _____ PLOTTED BY NR
 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ _____ CHECKED BY RJT
 GROUP SYMBOL _____ DATE 2/27/69
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



(6)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SW (61)

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22816
Project WEST RAINE DB
Station LOOKING D.S. RT LONE
Location _____
Boring No. _____ Sample No. 3
Sampled By JUB-JAL Lab Tested By NR-FK

Total Weight of Sample 1.69 lbs.
_____ grams.
Moisture Content of Fines _____ %.
Date Tested 2/14/69 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	—					
1½"	38.1	—					
(1")	(25.4)	—					
¾"	19.1	—					
⅜"	9.52	0.04		2.5	2.5		
No. 4	4.76	0.13	0.17	8.2	10.7	89.3	
Pan	0	1.52		xxxxx			
Total Fractions		1.69		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.42		89.3			
Total Oven-Dry		1.59		100.00			

Moisture Determination of Fines:

Cup No. 26
Dry Weight 167.4 grams
Moisture 7.1 %

FINES (Minus No. 4)

WEIGHT, GRAMS 300 (CALC.) OVEN-DRY WEIGHT 280.1 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 313.7 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	33.45	10.7	21.4		
16	1.19	63.10	20.1	41.5		
30	0.59	63.25	20.2	61.7		
50	.297	51.85	16.5	78.2		
100	.149	36.20	11.5	89.7		
200	.074	16.00	5.1	95.1	4.9	
Pan	0	1.00	0.3			
Total Fractions		264.85				
Total Dry Weight After Wet Sieving		386.30	264.90	84.4		
Sieve Loss-Gain		121.40	-.05			

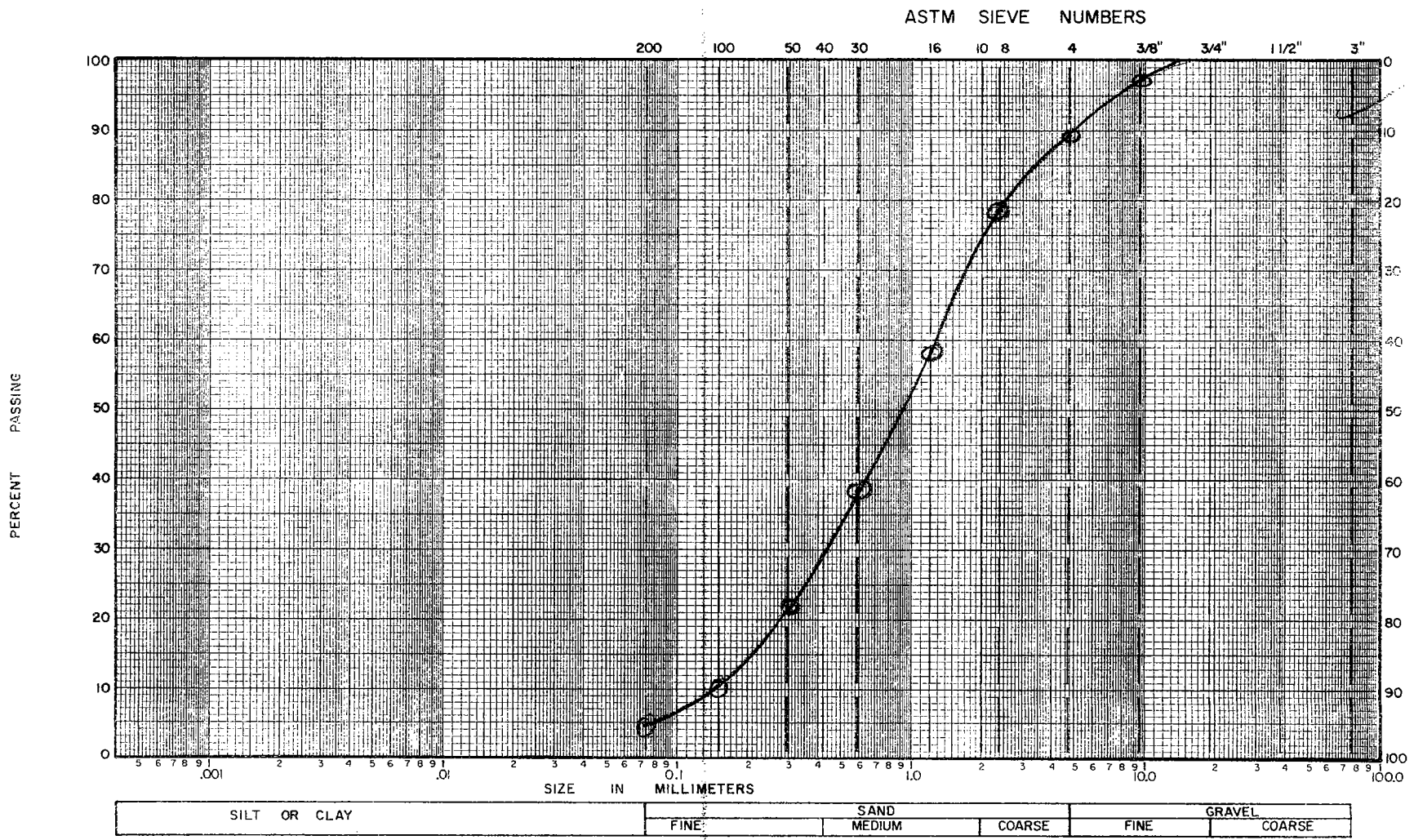
Calculated by NR Date 2/20/69
Checked by SHE Date 2/2/69

Note: Cross out sieve numbers not used.

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

LAB. SERIAL NO. 22816
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} .14 mm
 D_{30} 0.44 mm D_{60} 1.3 mm
 $C_u = D_{60}/D_{10}$ 9.3 PLOTTED BY _____
.193 $C_c = (D_{30})^2 / (D_{10} \times D_{60})$ 1.06 CHECKED BY RJT
.182
GROUP SYMBOL _____ DATE 2/21/09
NOTE: D_x = PARTICLE DIA. AT X% PASSING



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SM (61)

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22817
Project WEST RAVINE D.B.
Station AT TRASH RACH
Location _____
Boring No. _____ Sample No. 4
Sampled By NB-JAL Lab Tested By AR-TR

Total Weight of Sample 1.57 lbs.
_____ grams.
Moisture Content of Fines _____ %.
Date Tested 2/14/69 Plotted By _____
Remarks NON PLASTIC
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	.03		2.2	2.2		
No. 4	4.76	.07	10	5.3	7.5	92.5	35.2
Pan	0	1.47		xxxxx			
Total Fractions		1.57		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.23		92.5			
Total Oven-Dry		1.33		100.00			

Moisture Determination of Fines:
Cup No. 16
Dry Weight 157.9 grams
Moisture 19.2 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 83.9 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 90.7 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	3.9	4.3	11.8		
16	1.19	6.0	6.6	18.4		
30	0.59	9.0	9.9	28.3		
50	.297	11.6	12.8	41.1		
100	.149	10.0	11.0	52.1		
200	.074	10.6	11.7	64.8	35.2	
Pan	0	4.0	4.4			
Total Fractions		55.1				
Total Dry Weight After Wet Sieving		173.4	52.0	57.3		
Sieve Loss-Gain		121.4	- 3.1			

Calculated by NR Date 2/17/69
Checked by RTT Date 2/21/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

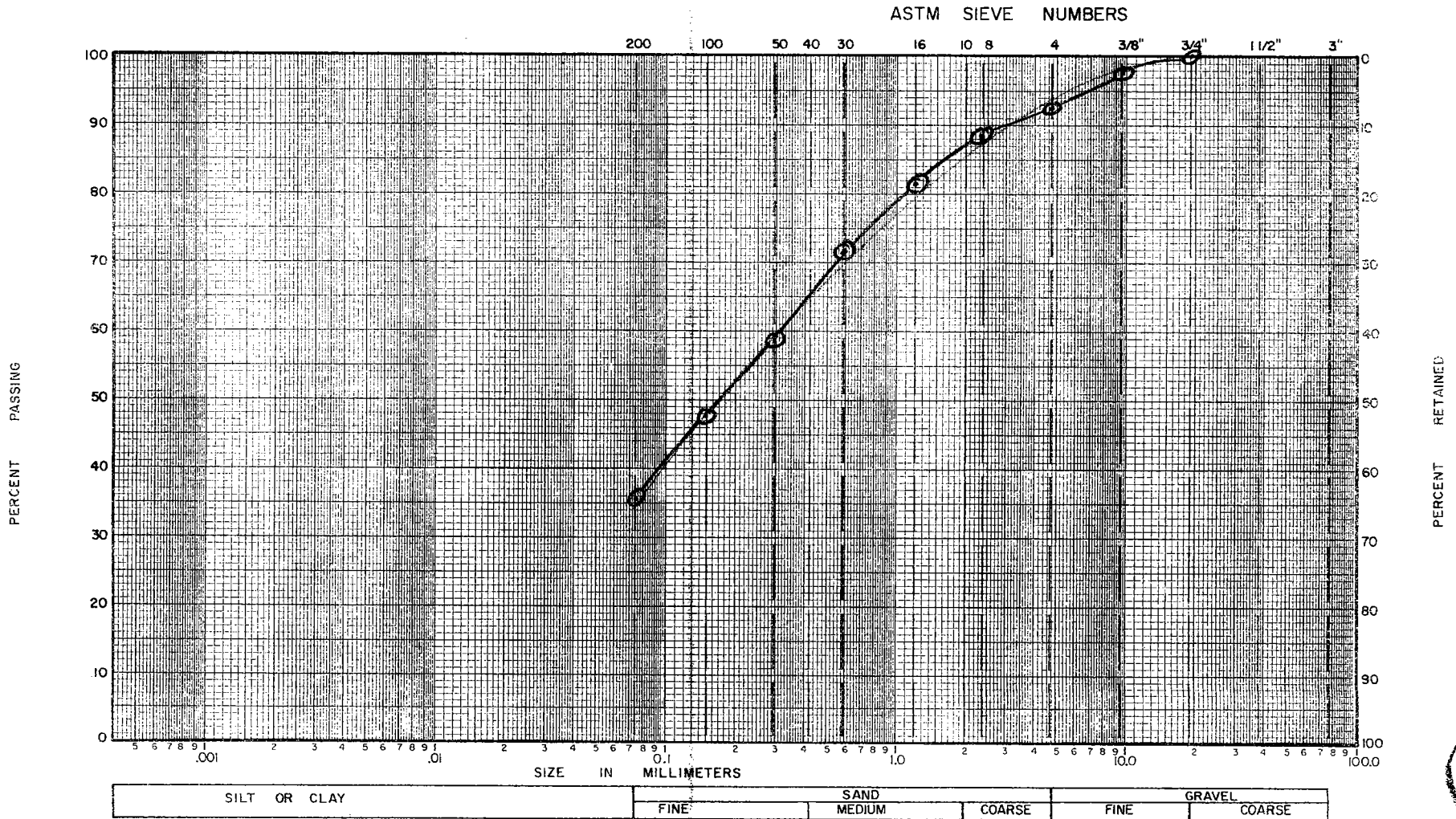
Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22817
 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} _____ mm
 D_{30} _____ mm D_{60} _____ mm
 $C_u = D_{60} / D_{10}$ _____ PLOTTED BY RS
 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ _____ CHECKED BY RS
 GROUP SYMBOL _____ DATE 2/25/69
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



(10)