

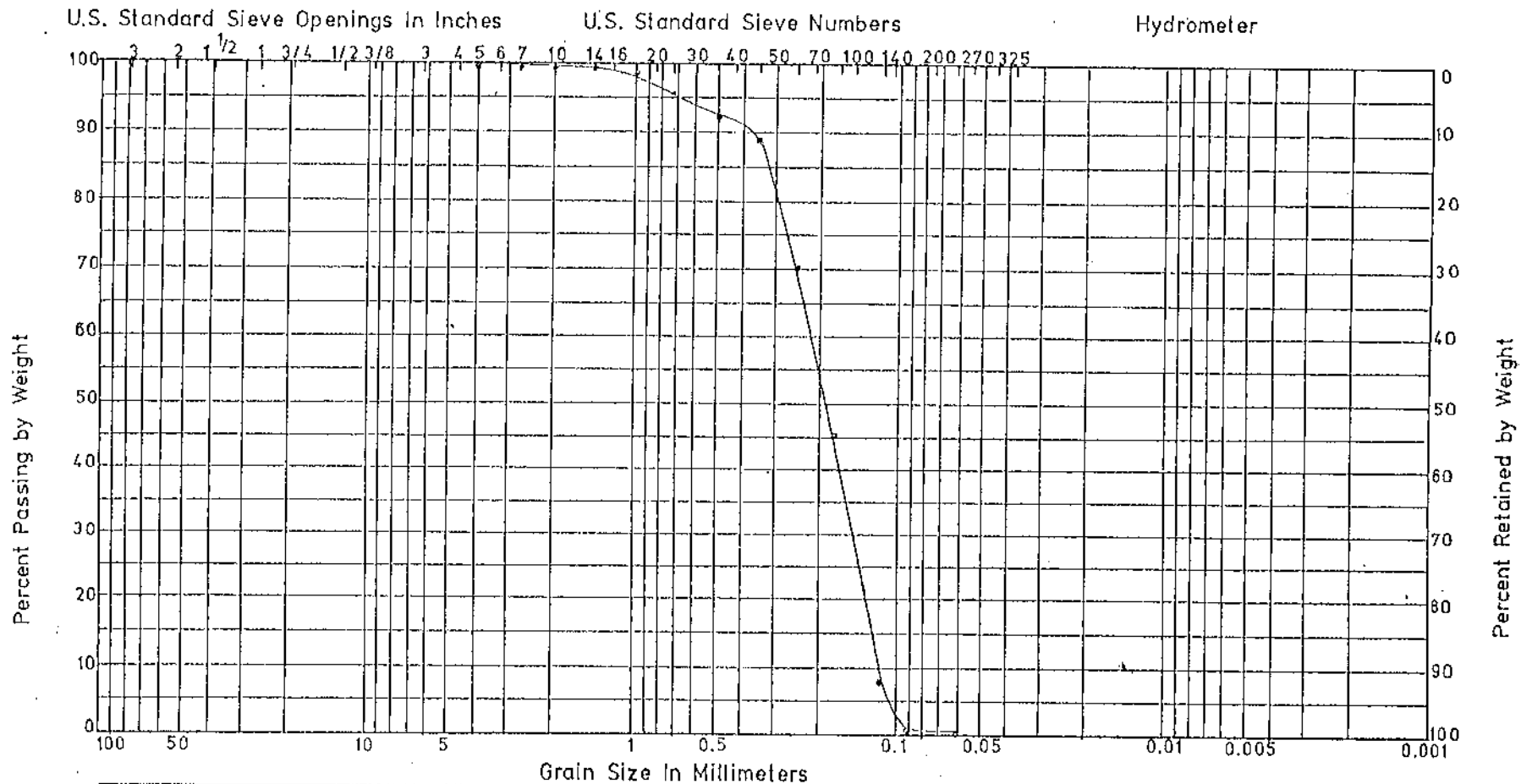
DRILLING LOG		DIVISION: South Atlantic	INSTALLATION: Jacksonville District	SHEET 1 of 1
1. PROJECT DELRAY BEACH SAND SEARCH		10. SIZE AND TYPE OF BIT 3.0"		
2. LOCATION (Coordinates or Station) X= 810970.40 Y=771803.78		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) NGVD		
3. DRILLING AGENCY: EXMAR		12. MANUFACTURER'S DESIGNATION OF DRILL EXMAR		
4. HOLE NO. (As shown on drawing title and file number) DB-87-10		13. TOT NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0.0 undisturbed: 0.0		
5. NAME OF DRILLER M.L. CLARK		14. TOTAL NO. OF CORE BOXES		
6. DIRECTION OF HOLE VERTICAL		15. ELEVATION GROUND WATER		
7. THICKNESS OF BURDEN 0.0 FT		16. DATE HOLE Started Completed 7/17/87 0900		
8. DEPTH DRILLED INTO ROCK 0.0 FT		17. ELEVATION TOP OF HOLE -71.0 ft.		
9. TOTAL DEPTH OF HOLE 20 FT		18. TOTAL CORE RECOVERY FOR BORING 77%		
		19. SIGNATURE OF GEOLOGIST FK, KB		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-71	0					SP
	1					Sample #1, Depth = 1.0' 0.21 mm, 0.60 phi sorting 1.0% silt
	2					
	3		SAND, fine grained, with scattered shell fragments, Gray (SP)		1	
	4					
	5					
-77.2	6		shell layer, (SP) from -77.2' to -77.4'			
	7				1	
-79	8		fine grained, Gray (SP) from -77.4 to -79.0'			Sample #2, Depth = 8.0' 0.87 mm, 0.05 phi sorting 0.20% silt
	9		shell layer, (SP) from -79.0' to -79.2'			
	10				1	
	11		medium grained, with shell and coral fragments (<2"), Gray (SP) from -79.2' to -83.0'			
-83	12					Sample #3, Depth = 12.0' 0.97 mm, 0.85 phi sorting 2.5% silt
	13		fine grained, with shell and coral fragments (<3") trace silt (SP) from -83.0 to -85.5'		3	
-85.3	14					
-86.3	15		SILT / CLAY (SM-SC)		4	Sample #4, Depth= 15.0' 0.14 mm, 1.34 phi sorting 25.0% silt
	16					
	17					
	18		NO RECOVERY			
	19					
-91	20		End of Boring			
	21					
	22		Note: Soils are classified in accordance with the Unified Soils Classification System.			
	23					
	24					

PROJECT: Delray Beach

HOLE NUMBER:

MECHANICAL ANALYSIS CHART

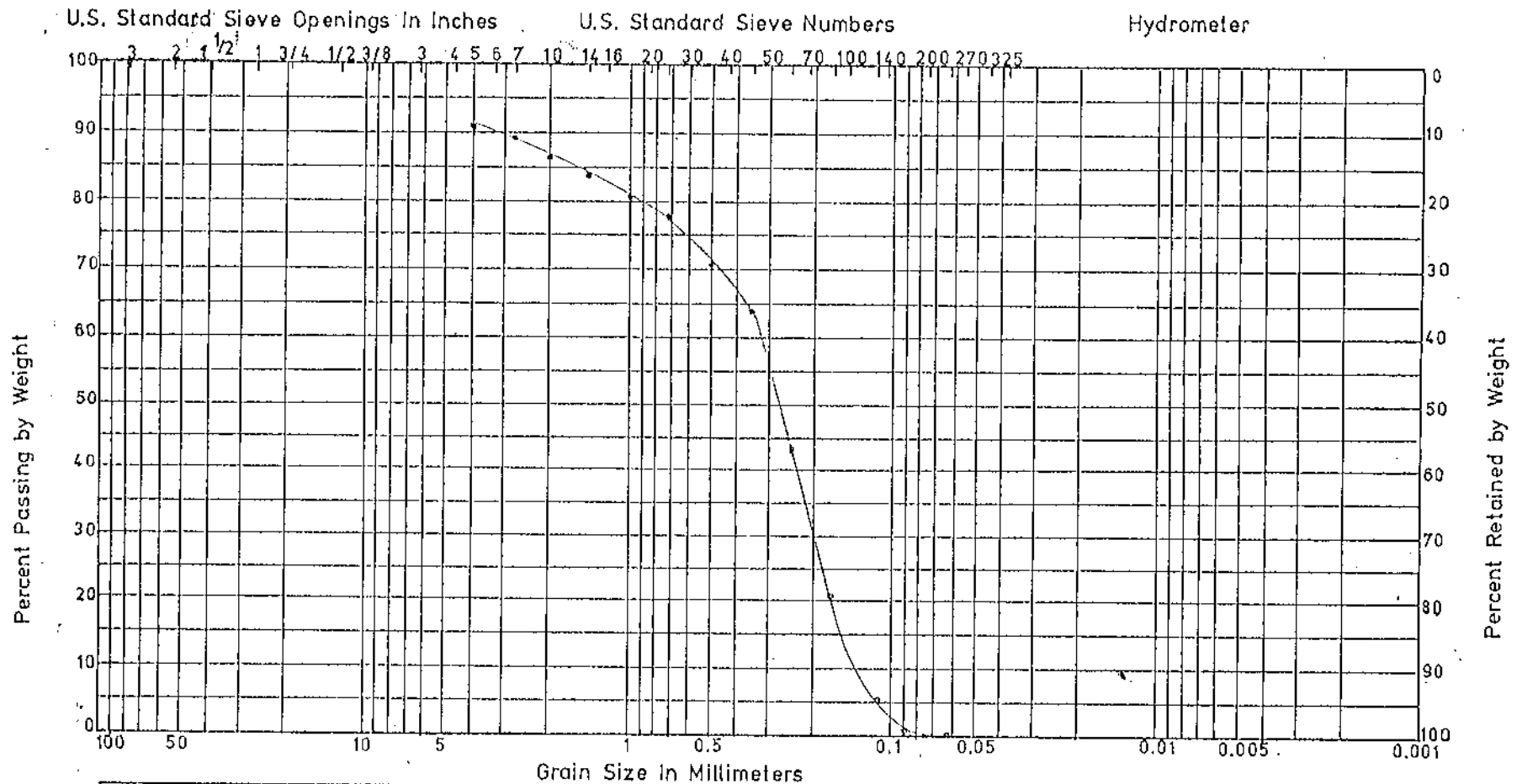


GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

SAMPLE NO.	CLASSIFICATION
10	GREY POORLY GRADED SAND
1'	WITH TRACES OF SHELL
	FRAGMENTS. (SP)
	MEAN: .205MM MEDIAN: .19MM SORTING: .60

PROJECT:
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MECHANICAL ANALYSIS CHART

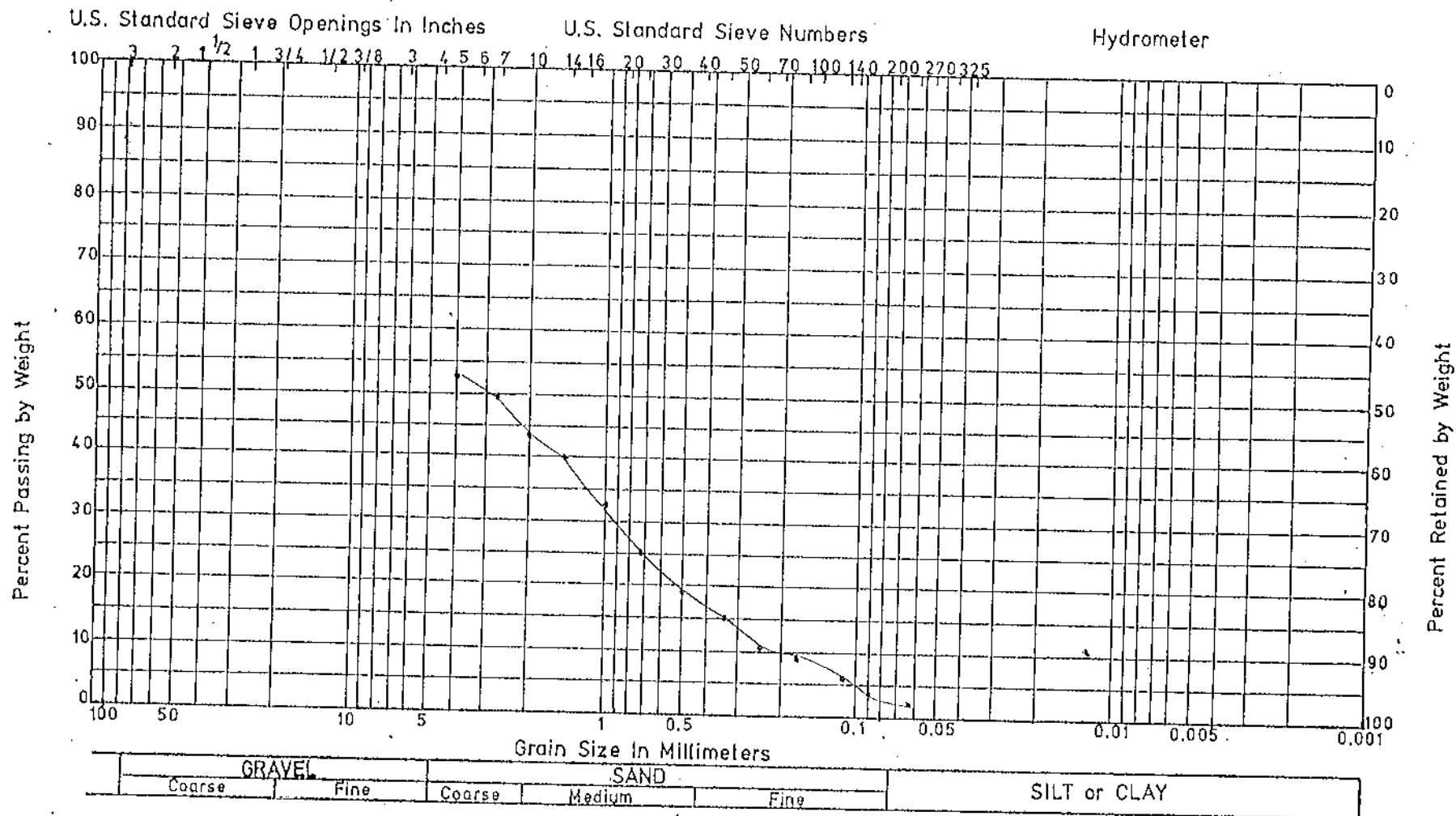


GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

SAMPLE NO.	CLASSIFICATION
10	POORLY GRADED MIXTURE OF CORAL
8'	GRAVEL, SHELL FRAGMENTS, AND
	GREY SAND. (GP)
	MEAN: .865MM MEDIAN: .27MM SORTING: .05

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MECHANICAL ANALYSIS CHART



SAMPLE NO.	CLASSIFICATION
10	POORLY GRADED MIXTURE OF CORAL
12'	GRAVEL, SHELL FRAGMENTS, AND
	GREY SAND. (G.P)
	MEAN: .972MM MEDIAN: 2.0MM SORTING: .85

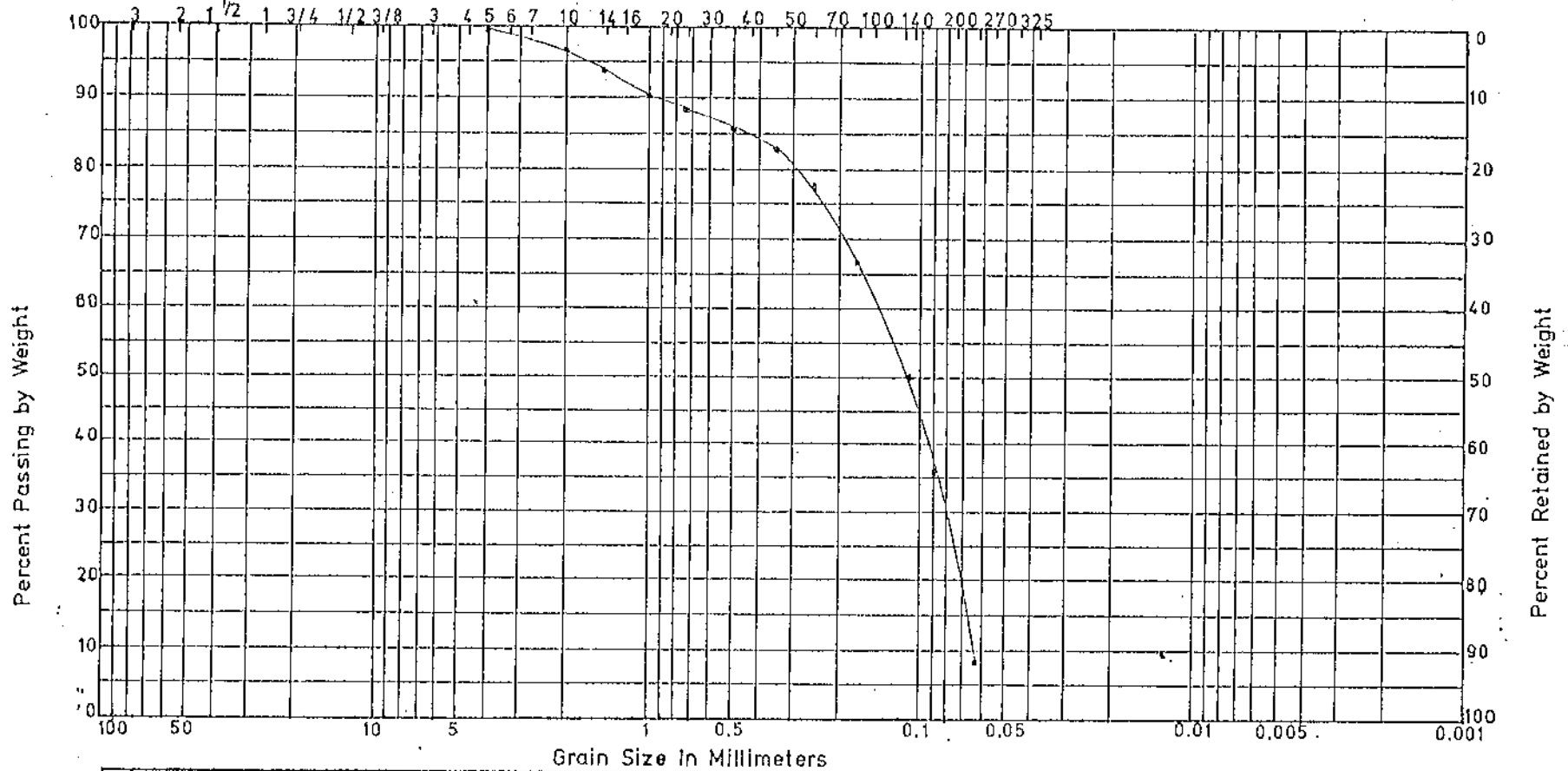
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MECHANICAL ANALYSIS CHART

U.S. Standard Sieve Openings in Inches

U.S. Standard Sieve Numbers

Hydrometer



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

SAMPLE NO.	CLASSIFICATION
10	LIGHT BROWN POORLY GRADED
15'	MIXTURE OF SAND, SILT, AND CLAY. (SM-SC)
	MEAN: 145 MM MEDIAN: 12MM SORTING: 1.34

PROJECT:

DELRAY BEACH SAND SEARCH

DATE: JULY 1987

COASTAL PLANNING & ENGINEERING, INC. 3200 N. FED. HWY., SUITE 123, BOCA RATON, FL 33431