

GRADES BROWN (MEDIUM DENSE)	
GRADES LOOSE GRADES VERY LOOSE	
GRADES LIGHT GRAY (LOOSE)	

GRADES LIGHT GREENISH GRAY FINE SAND (MEDIUM DENSE)

**GRADES LOOSE** 

0 ш  $\mathbf{m}$ 



**GRADES MEDIUM DENSE** 

**GRADES LOOSE** 

LIGHT GRAY FINE SAND WITH SOME SMALL SHELL FRAGMENTS (LOOSE)

**GRADES MEDIUM DENSE** 

LIGHT GRAY FINE SAND WITH TRACE WHITE SHELL FRAGMENTS (VERY DENSE)

8.2

0.3

0.6

8.0

0.3

1.7

3.6

30

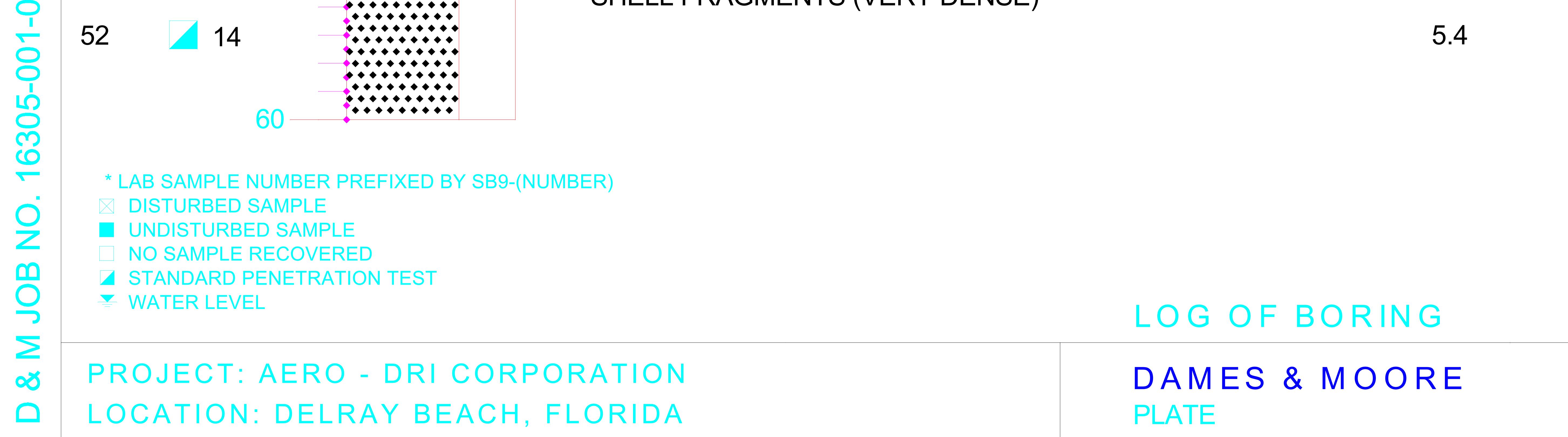
3.4

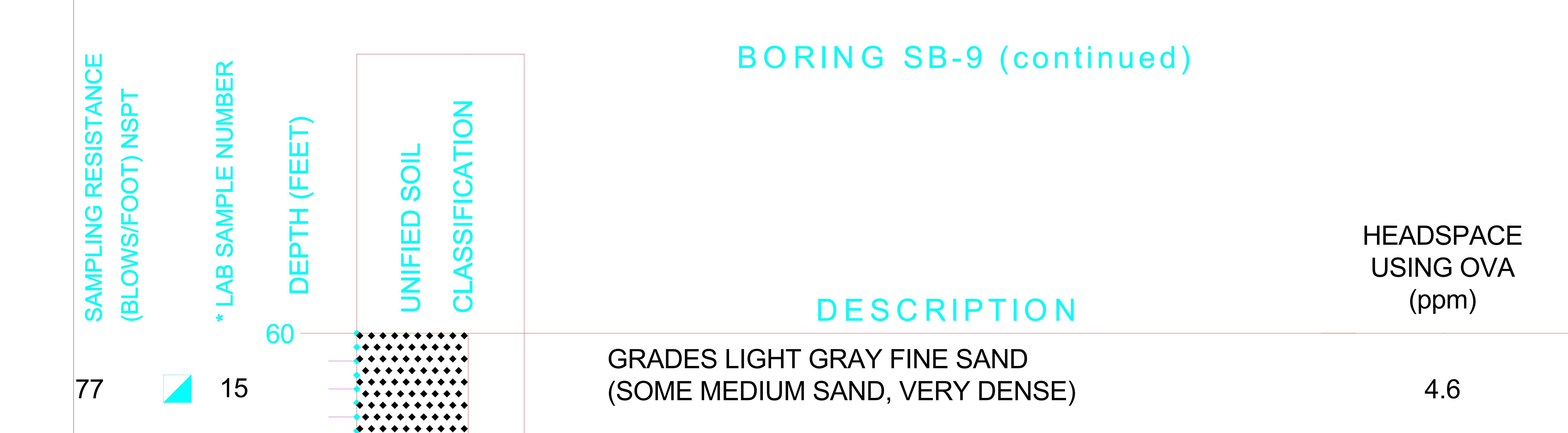
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1.4

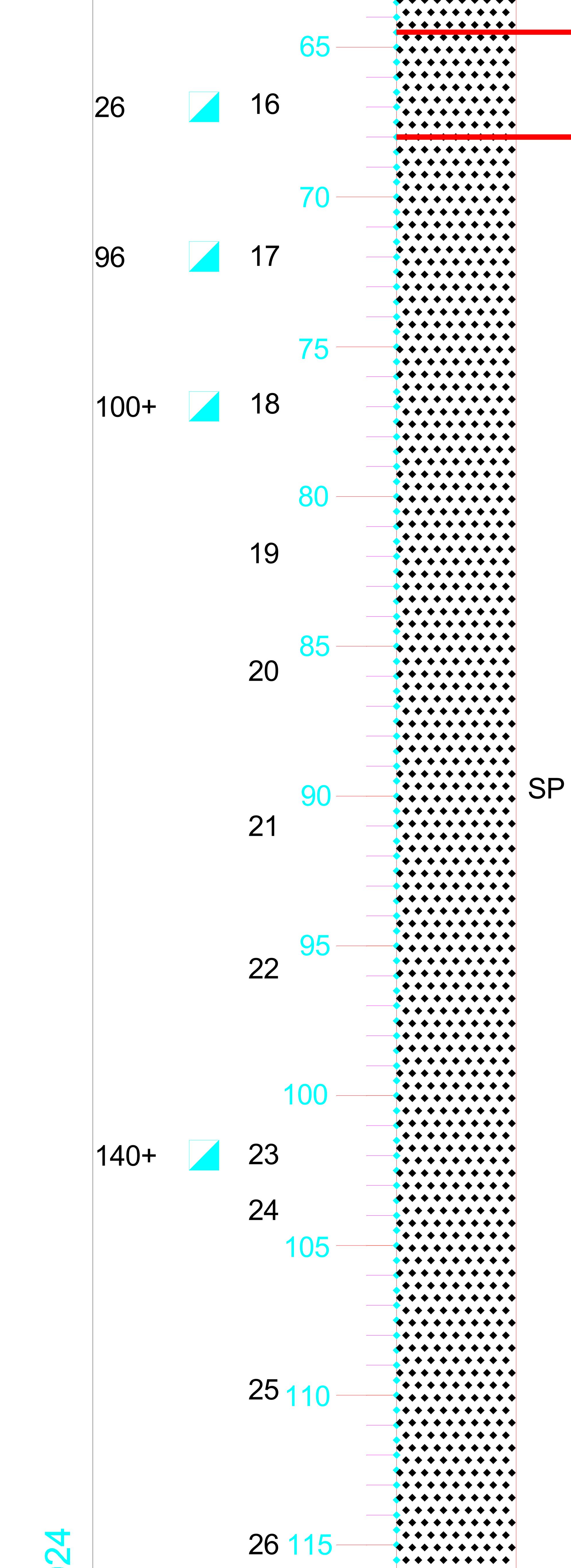
1.4

3.4









NO SAMPLE - SAME

GRADES WELL CEMENTED FINE SAND (VERY DENSE)

<VERY HARD DRILLING - NO SAMPLE ATTEMPTED
DRILLED THROUGH</pre>

GRADES MODERATELY TO WELL CEMENTED SAND AND SHELL (VERY DENSE)

GRADES LIGHT GRAY FINE SAND WITH SOME SHELL FRAGMENTS (VERY DENSE)

GRADES LIGHT OLIVE GREEN FINE SAND (MEDIUM DENSE)

3.3

140

1.5



## DRILLING RESISTANCE DECREASES LIGHT GRAY FINE SAND WEAKLY TO MODERATELY CEMENTED (DENSE)

GRADES LESS SHELLY MATERIAL

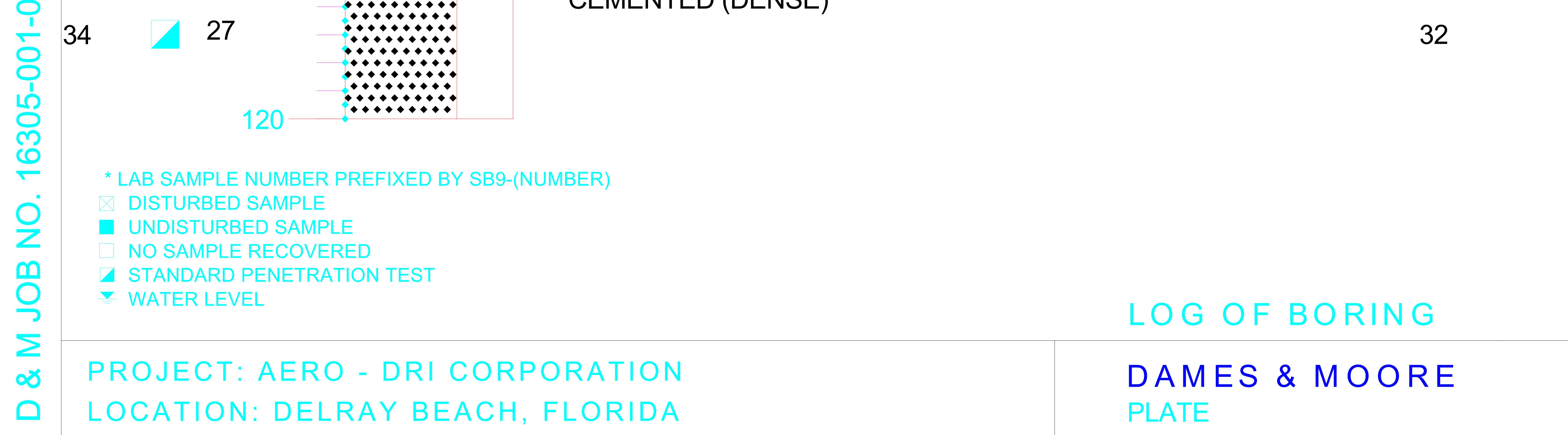
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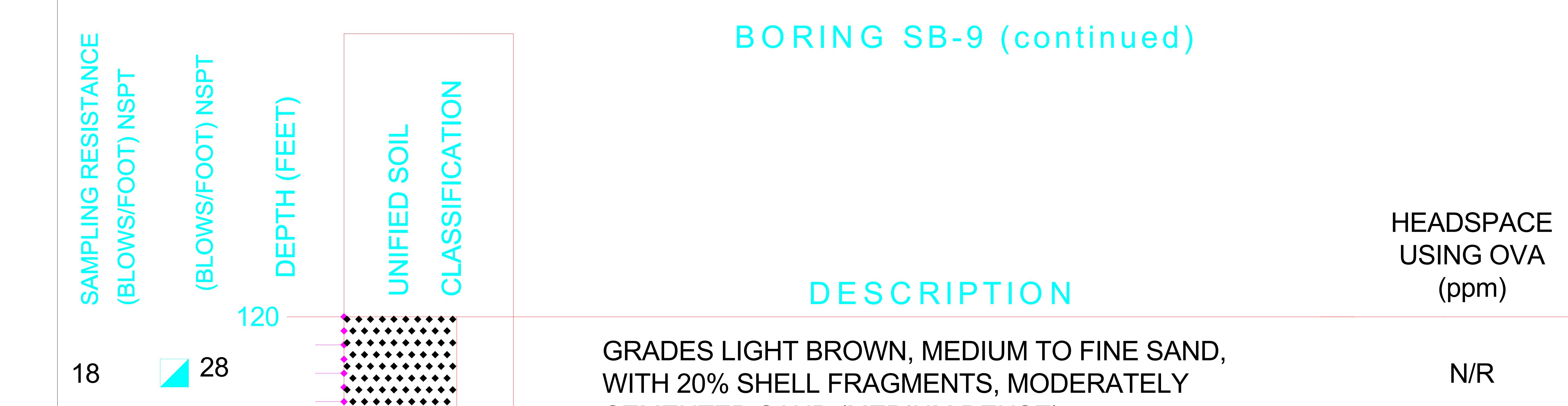
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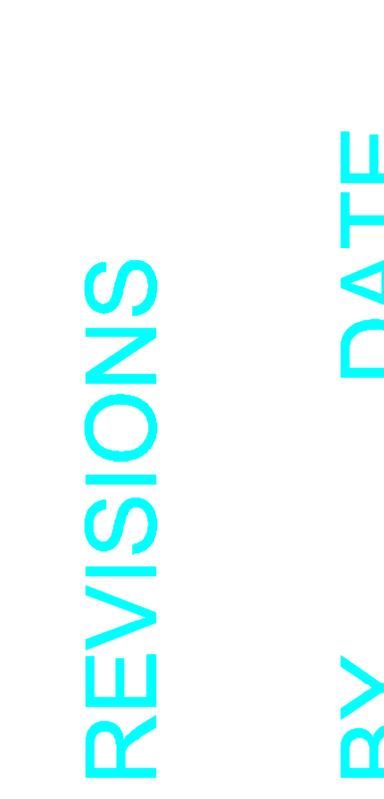
GRADES FINE TO MEDIUM SAND AND SHELL (VERY DENSE)

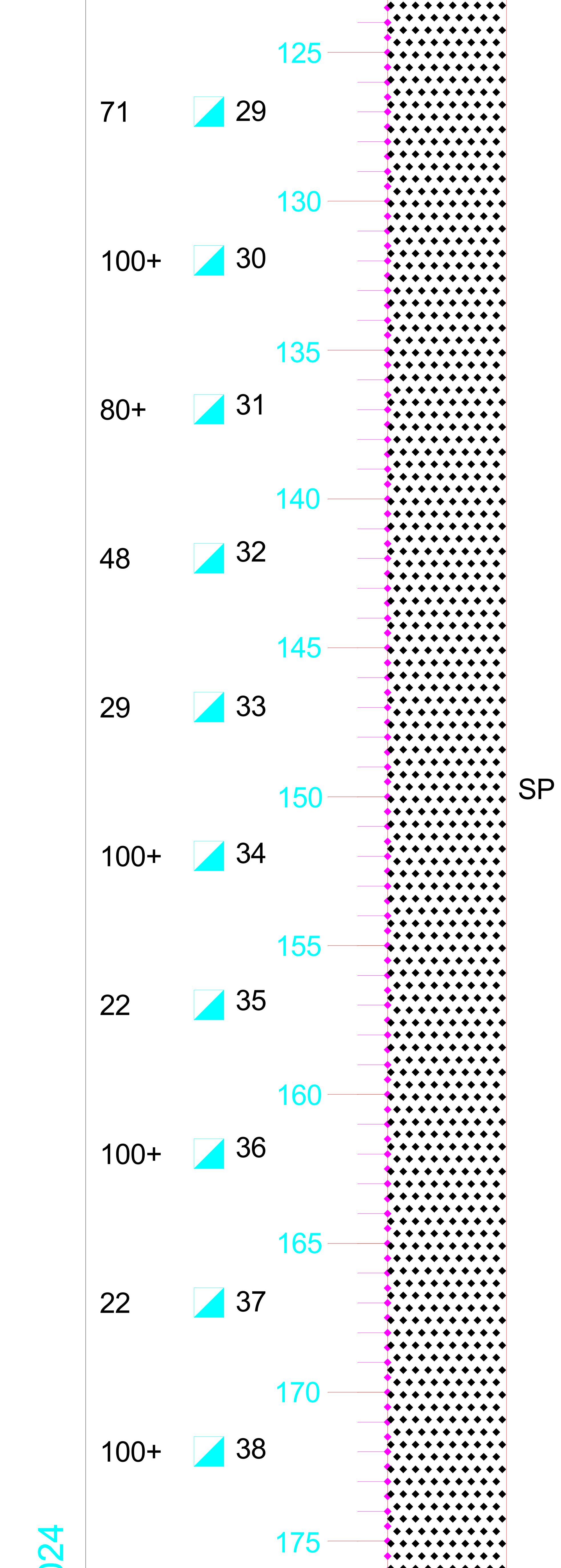
N/R

### DRILLING RESISTANCE DECREASES









CEMENTED SAND (MEDIUM DENSE) LOSS OF CIRCULATION GRADES LIGHT GRAY, MEDIUM SAND WITH SANDSTONE FRAGMENTS < 3/4", WELL CEMENTED (VERY DENSE) NO SAMPLE ATTEMPTED, FORMATION VERY HARD DRILLING

GRADES LIGHT GRAY/GRAY, MEDIUM TO FINE SAND, WITH 5% SHELL FRAGMENTS 45% SANDSTONE FRAGMENTS (MODERATELY CEMENTED) (VERY DENSE)

LIGHT BROWN/GRAY FINE SAND WITH SANDSTONE (SS) FRAGMENTS <3/4" (MEDIUM CEMENTED) (DENSE)

LIGHT GRAY MEDIUM TO FINE SAND SS FRAGMENTS <3/4" (WELL CEMENTED) (MEDIUM DENSE)

10

65

0.1

N/R





NO SAMPLE ATTEMPTED HARD DRILLING (VERY DENSE)

(VERY DENSE)

### GRADES LIGHT BROWN/GRAY FINE SAND WITH SS FRAGMENTS 90% <1" (MEDIUM DENSE)

VERY DENSE NO SAMPLE

LIGHT GRAY MEDIUM TO FINE SAND WITH FRAGMENTS OF SANDSTONE <3/4"

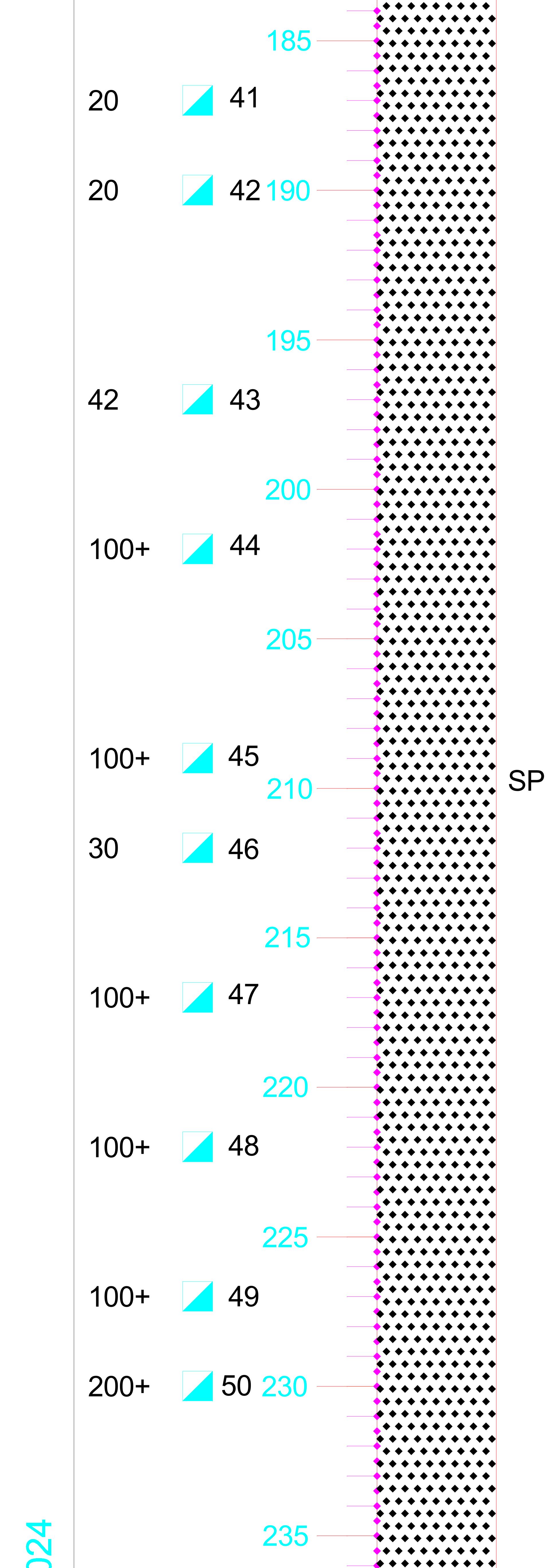
VERY DENSE NO SAMPLE

GRADES LIGHT BROWN SAND (CEMENTED) WITH









(DENSE) LIGHT BROWN VERY FINE SAND FRAGMENTS SANDSTONE <3/4" (MEDIUM DENSE) LIGHT BROWN VERY FINE SAND FRAGMENTED SANDSTONE WITH SOME SILT (90% FRAGMENTS) (MEDIUM DENSE) LIGHT BROWN FINE SAND LARGE FRAGMENTED SANDSTONE (90% FRAGMENTS) <1 1/2" (DENSE)

NO SAMPLE ATTEMPTED BOUNCING 200 FT OF ROD 1 1/2 FT (VERY DENSE) HARDER BOUNCE RODS 1 TO 2 FEET

BOUNCE RODS 1 TO 2 FEET NO SAMPLE ATTEMPTED (VERY DENSE) LIGHT BROWN MEDIUM TO FINE CALCAREOUS SAND WITH SANDSTONE FRAGMENTS (50%) < 1 1/4" (DENSE) 15

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10

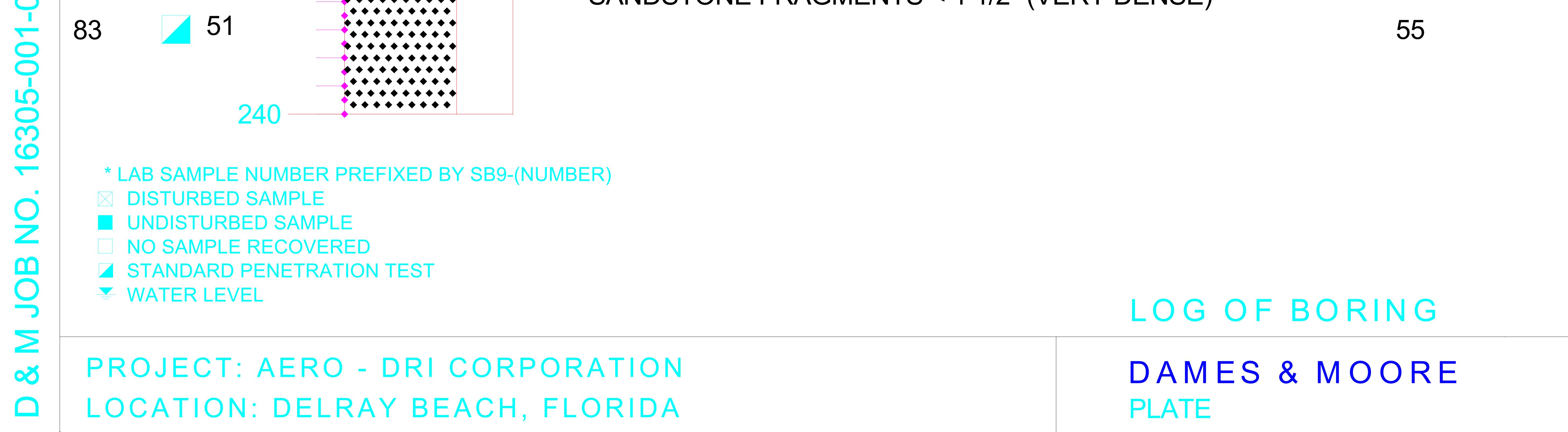
# BY TATA DATE 08/17/88

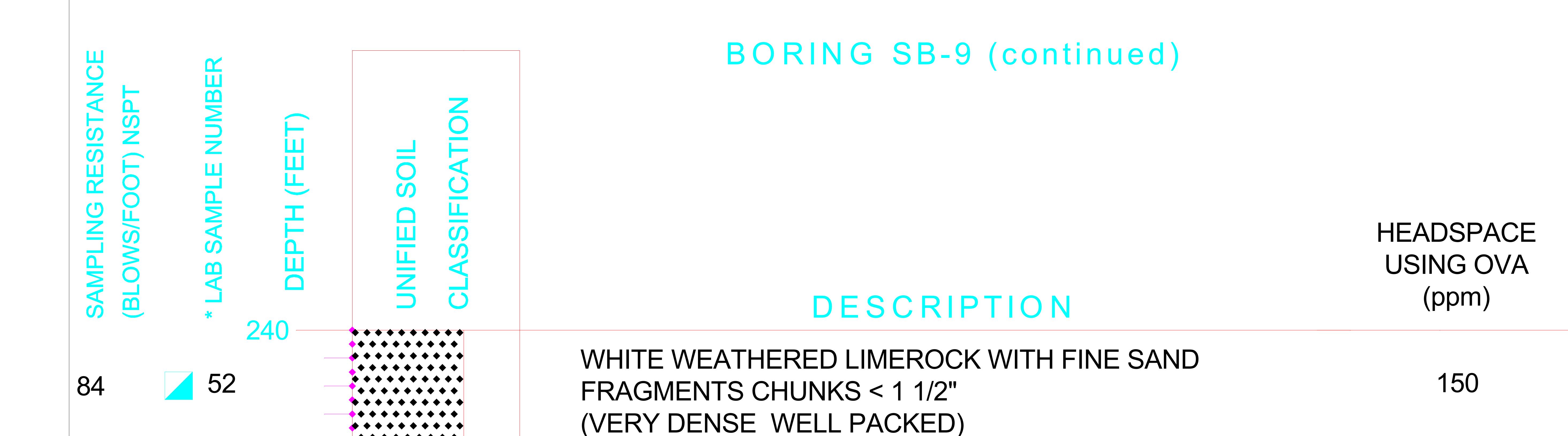
NO SAMPLE RECOVERED ROCK STUCK IN SHOE (VERY DENSE) LIGHT BROWN HARD SANDSTONE <1 1/2" IN DIAMETER

LOSS OF CIRCULATION (COULD NOT REGAIN) NO SAMPLE ATTEMPTED (VERY DENSE) EASIER DRILLING WHITE LIMESTONE, WEATHERED WITH LARGE FRAGMENTS OF CALCAREOUS SAND AND SHELL

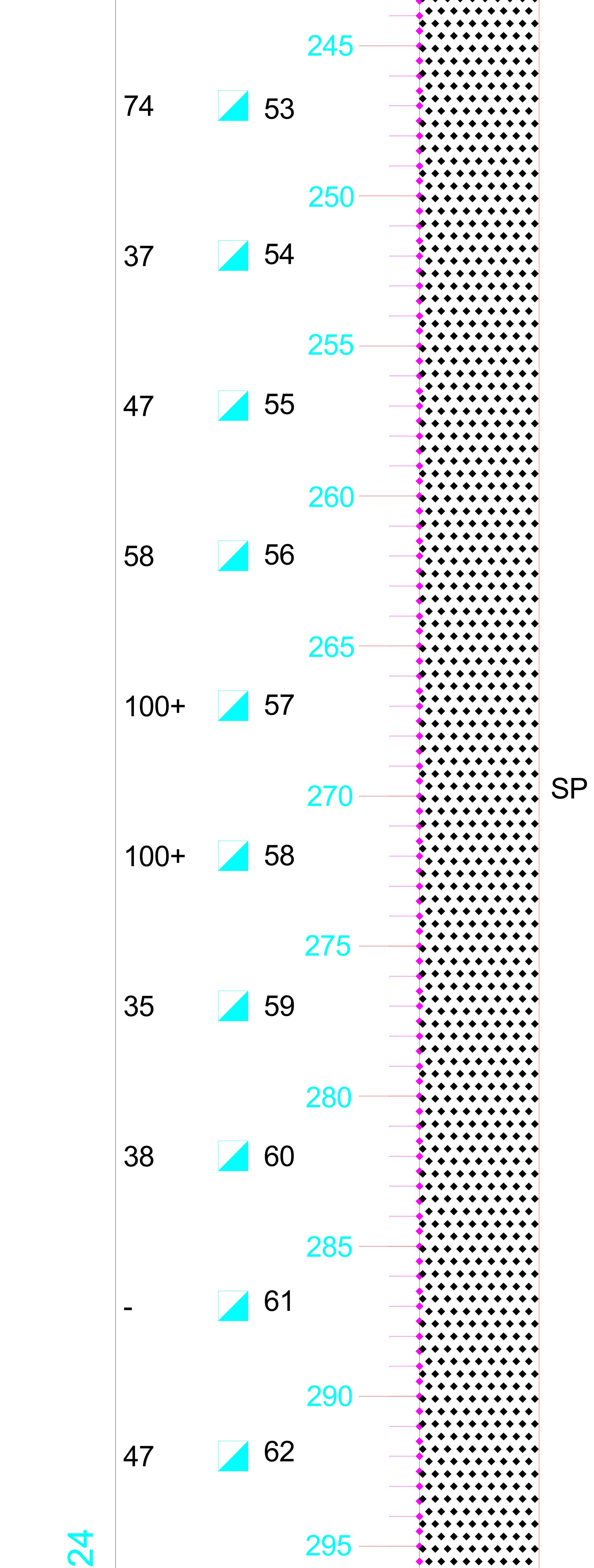
< 1 1/2" (VERY DENSE)

WHITE COARSE TO FINE CALCAREOUS SAND WITH 70% SHELL FRAGMENTS (VERY DENSE)

WHITE MEDIUM TO FINE CALCAREOUS SAND WITH SANDSTONE FRAGMENTS < 1 1/2" (VERY DENSE) 







### **GRADES VERY DENSE**

LIGHT GRAY FINE CALCAREOUS SAND WITH SANDSTONE FRAGMENTS WITH CHUNKS < 1 1/4" (VERY DENSE)

### LIGHT WHITE/GRAY FINE SAND WITH FRAGMENTED CHUNKS OF SANDSTONE <1" (DENSE)

WHITE WEATHERED SAND/LIMEROCK WITH CHUNKS OF CEMENTED SAND/SHELL <1" (DENSE)

WHITE WEATHERED LIMEROCK WITH FINE SAND CHUNKS < 1 1/4" WITH CRUSHED SHELL FRAGMENTS (VERY DENSE)

110

450

100

120

# $\mathbf{m}$

### LIGHT GRAY FINE CALCAREOUS SAND WITH SANDSTONE SHELL FRAGMENTS < 3/4" (DENSE)

### **GRADES VERY DENSE**

# LIGHT GREEN FINE CALCAREOUS SAND/SILT WITH SMALL FRAGMENTS OF SANDSTONE/SILTSTONE (DENSE)

(15%) < 1/4" SANDSTONE FRAGMENTS (DENSE)

GRAY FINE CALCAREOUS SAND WITH SHELL FRAGMENTS

75

100

600

