

가

(SAND DRAIN)

1.

가

가

2.

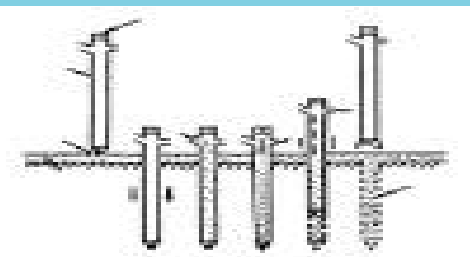
GL-45m ,

50m 가

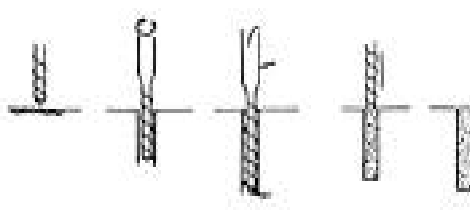
3.

가

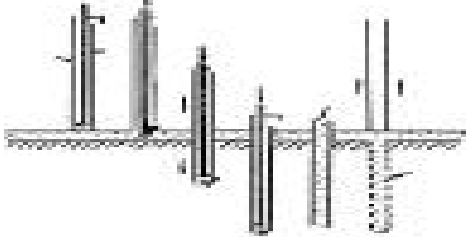
[5.1]



(1)



(2)



(3)

(Sand Compaction Pile)

1.

1950

가,

가 가

가, , 가

2.

(1) (a) 1.0

- : 0.4 ,

: 0.15

(2)

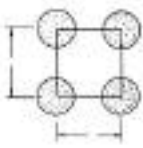
(a)

$A_s :$, $A :$ 1

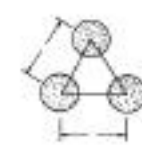
가 , :

- , : $a_s = \frac{A_s}{A} = \frac{A_s}{2} \times \frac{A_s}{1 \times 2}$

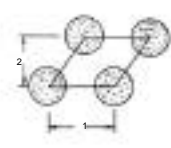
- : $a_s = \frac{A_s}{A} = \frac{2}{\sqrt{3}} \times \frac{A_s}{2}$



(a)



(b)



(c)

(3)

- : 60cm ~ 80cm

(70cm)

- : 100cm ~ 200cm

(160cm 200cm)

- : 80cm ~ 120cm 가

35 ~ 45cm

3.

(1)

[5.4] Sand Compaction Pile

	가	(CP)
		(SSP)
		NTK

(2)

Ø 400 ~ 500 mm

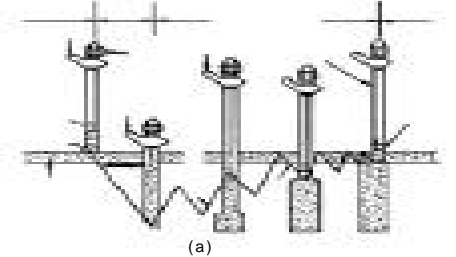
Ø 700 mm

Ø 800 ~ 1200 mm

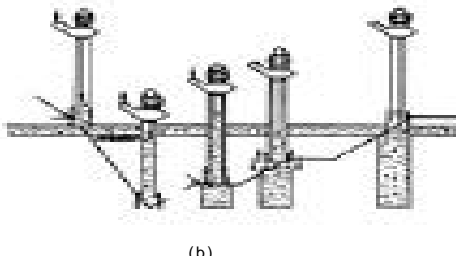
Ø 1000 ~ 2000 mm

1.3 ~ 2.0

[5.2]

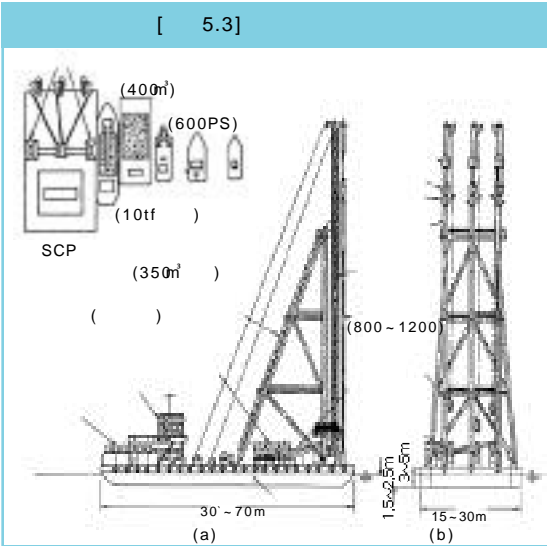
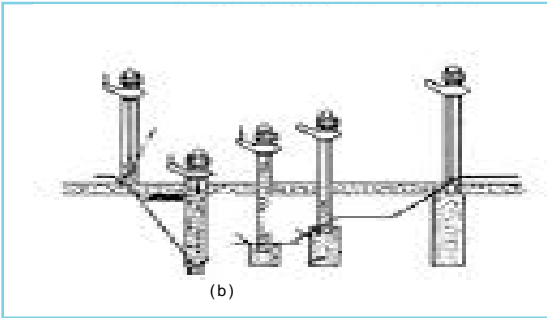


(a)



(b)

Technical Report



* (PACK DRAIN)

1. 가

가

(1)

(2)

(3) 12cm 가

(4) 가

가

(5)

(6) 가4

가

2.

GL-30 m GL-40m

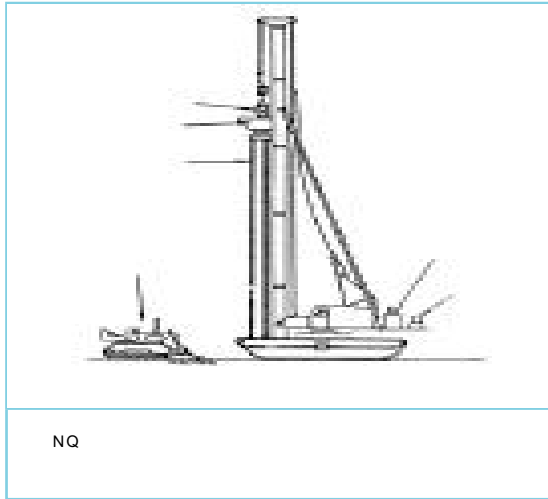
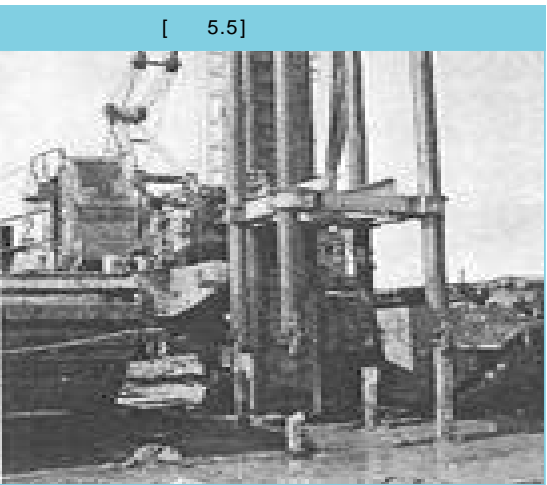
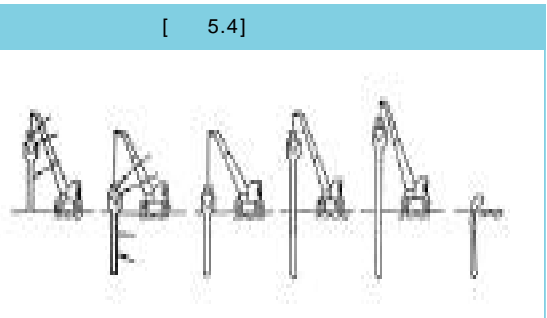
가

3.

(

4

)



NQ

(PAPER DRAIN)

1.

가

(PAPER)

2.

(1)

가

(2)

가

(3) 가

(4) 가

(5) Rod 가 , Clogging

(6) GL-35.0m

가

3.

Rod (

)

[5.6]

[5.7]

		100mm 3~3.5mm (10)
		100mm 1.8mm
		96mm 2.9mm

[5.5]				
			3 ~ 3.5 mm	
			100 mm	
			10	
		10	30 mm ²	
()		15mm	35 kg	
()		15mm	9 kg	
			75cm 50 kg	

* ()

1. (10~50 ton)
10m~30m
가

1960

2. (1)

(1)

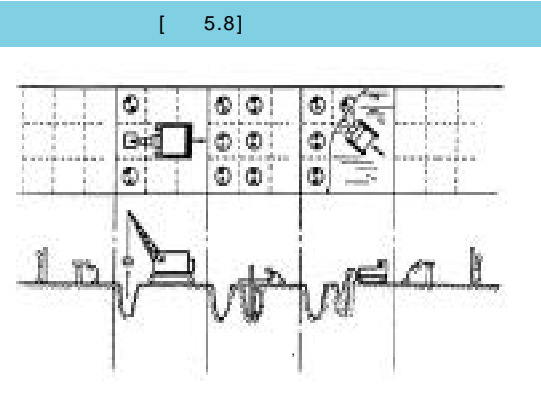
(3)

가

(4)

[5.6]				
(ton)	(m)	(t)	(m)	
5 ~ 12	2 ~ 25	100 ~ 150	8m	1
20 ~ 25	20 ~ 30	150 ~ 250	8 ~ 15	2

3. ()



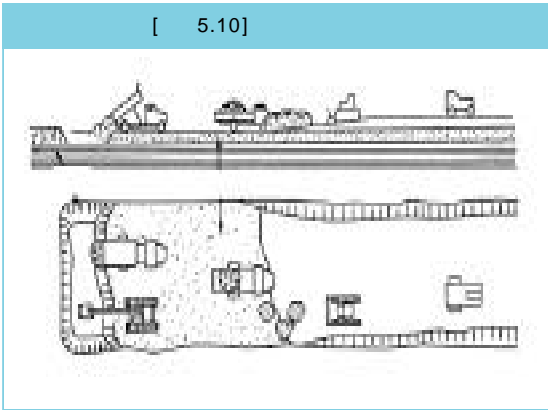
* 가 ()

1. 가

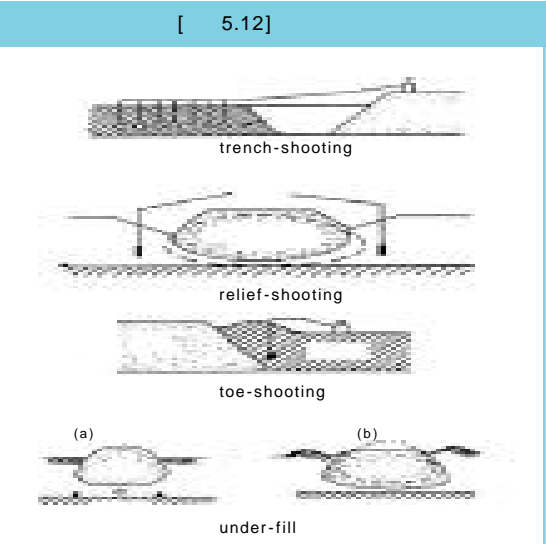
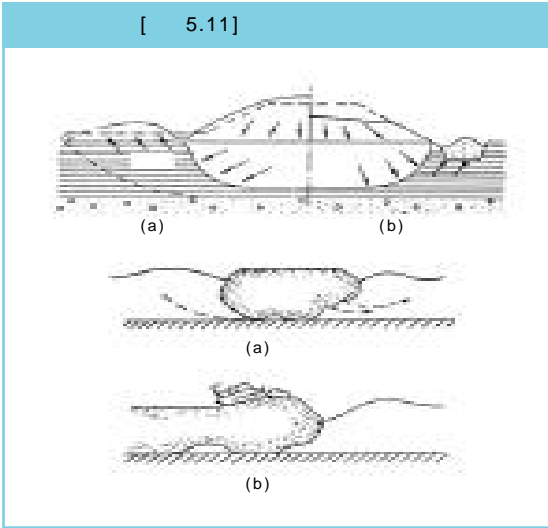
2. 가

(2)

가3m



4.



6. 2

S

1995

1995

6

1997

M. J. Tomlinson, " Foundation Design and Construction "

1995

1996