

# Technical Report<sup>1</sup>

( )<sup>2</sup>

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가 5

가

가

가 “ ” ?

가

가

1

2.

3.

4.

5.

## 5.1

5.2

### 5.3

6.

5.

## 5.1

## 5.2

3가

[ 5.1], [ 5.2], [ 5.3]

### 5.3

가

13

가

, Water

(S.C.P)

가

(

가

가

(

가

가

+

(	)
(	)

( )

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2

3  
가

\* (SAND DRAIN) 4

1. 5

6  
가

7  
가

2. 8

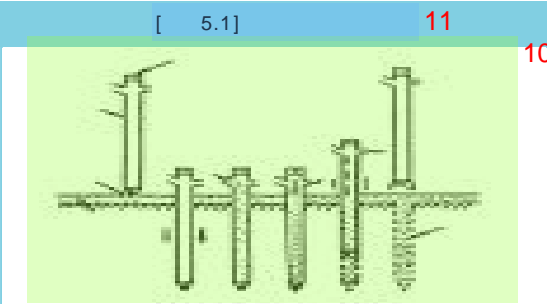
9  
GL-45m  
50m 가

3. 16

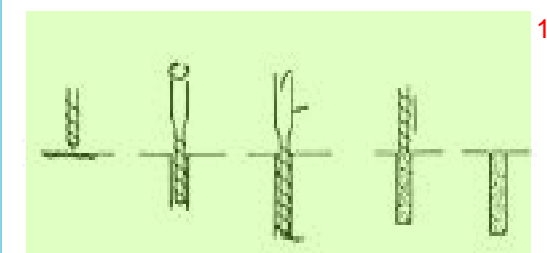
15

19  
가

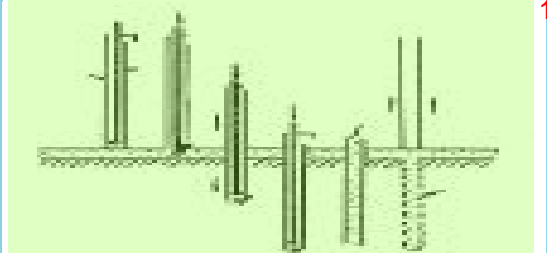
20



(1) 12



(2) 14



(3) 18

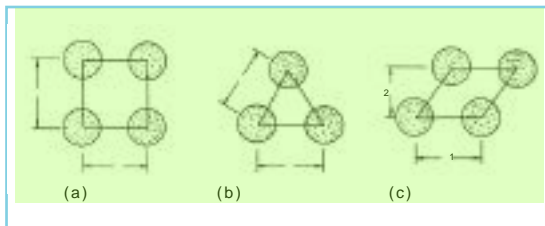
\* (Sand Compaction Pile) 21

1. 1950 22  
가,  
가 가

23  
가, 가

2. 24

(1) (a<sub>s</sub>) 1.0 25  
- : 0.4 ,  
: 0.15  
(2) (a<sub>s</sub>)  
A<sub>s</sub> : , A : 1  
가 , :  
- : a<sub>s</sub> =  $\frac{A_s}{A} = \frac{A_s}{2} \times \frac{A_s}{1 \times 2}$   
- : a<sub>s</sub> =  $\frac{A_s}{A} = \frac{2}{\sqrt{3}} \times \frac{A_s}{2}$



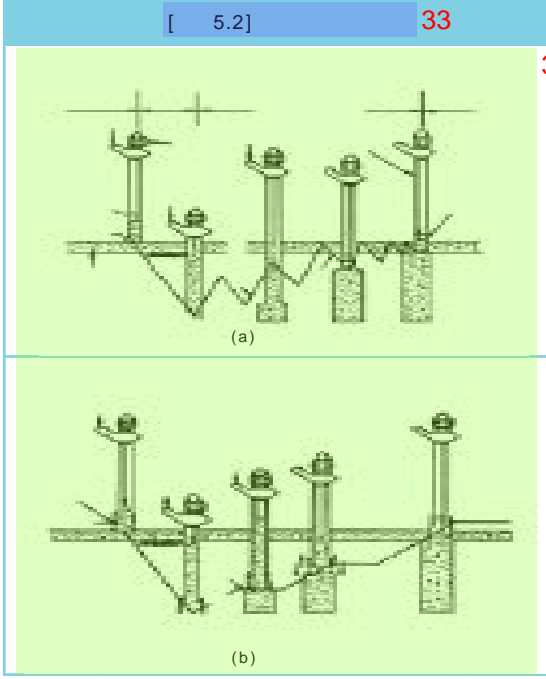
(3) 27  
- : 60cm ~ 80cm  
( 70cm)  
- : 100cm ~ 200cm  
( 160cm 200cm)  
- : 80cm ~ 120cm 가  
35 ~ 45cm

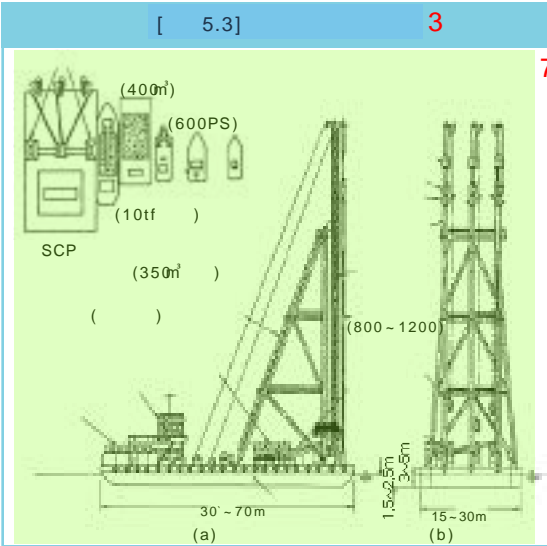
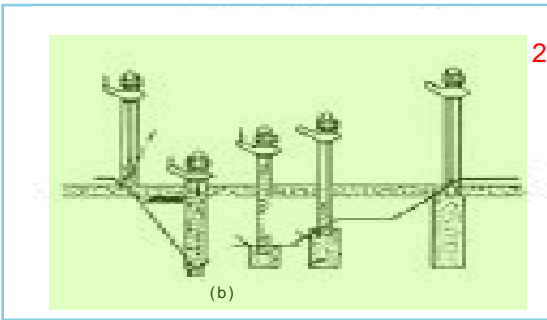
3. 28 29  
(1)

[ 5.4] Sand Compaction Pile 30 31

	가	(CP)
		(SSP)
		NTK

(2) Ø 400 ~ 500 mm 32  
Ø700 mm  
Ø 800 ~ 1200 mm  
Ø1000 ~ 2000 mm  
1.3 ~ 2.0



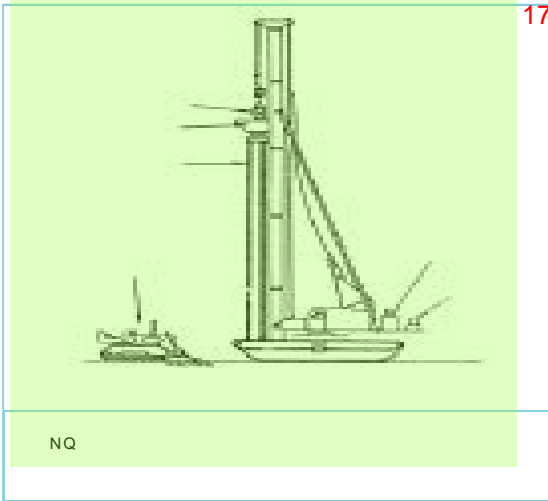
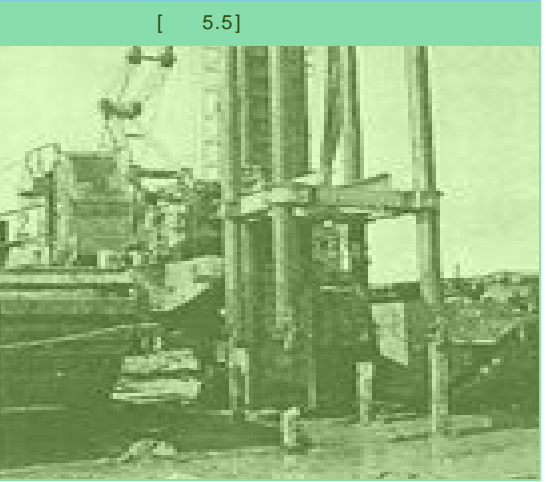
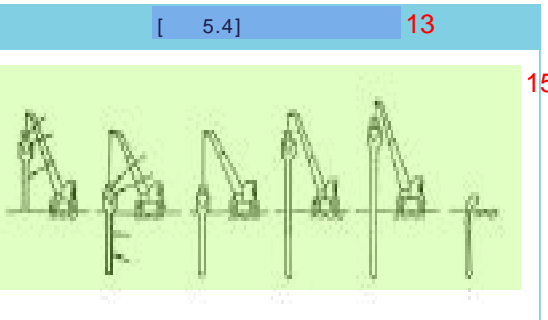


\* (PACK DRAIN) 8  
1. 10  
가  
가  
(1)  
(2)  
(3) 12cm  
(4) 가

(5) 가  
(6) 가4  
가

2. 6  
GL-30 m GL-40m  
가

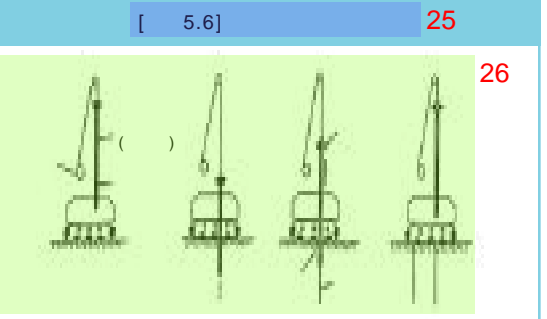
3. 11  
(  
4  
)



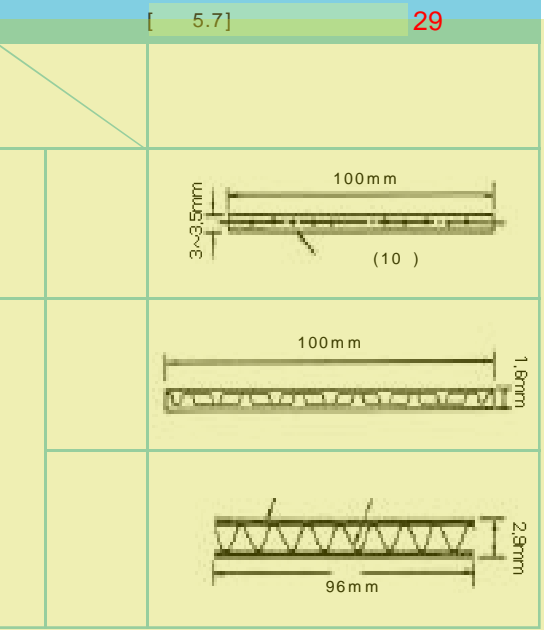
\* (PAPER DRAIN) 18  
1. 19  
가  
(PAPER)

2. 21  
(1) 가  
(2) 가가  
(3) 가  
(4) 가  
(5) Rod  
가 , Clogging  
(6) 가 GL-35.0m

3. 23  
Rod  
(  
)



4. 27  
(10<sup>-1</sup> ~ 10<sup>-2</sup>  
cm/sec),  
< 5.7>< 5.5>



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[ 5.5] 2				
				5
			3 ~ 3.5 mm	
			100 mm	
			10	
		10	30 mm <sup>2</sup>	
( )		15mm	35 kg	
( )		15mm	9 kg	
			75cm 50 kg	

\* ( ) 6

1. 7  
(10~50 ton)  
10m~30m  
가  
. 1960

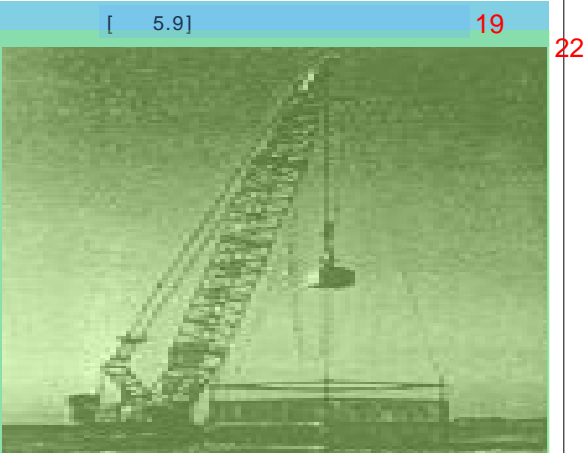
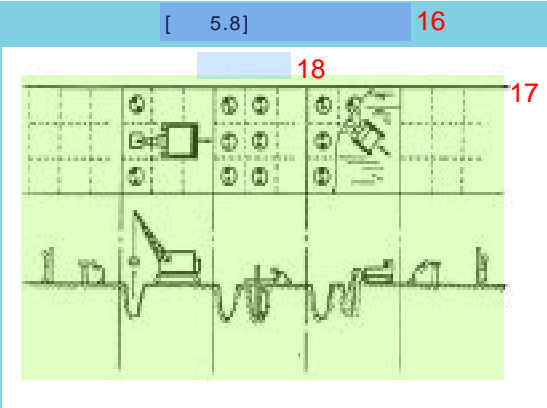
2. 9

(1)  
(1)  
(3)  
가  
(4)

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

3. 13  
( ) 15

10

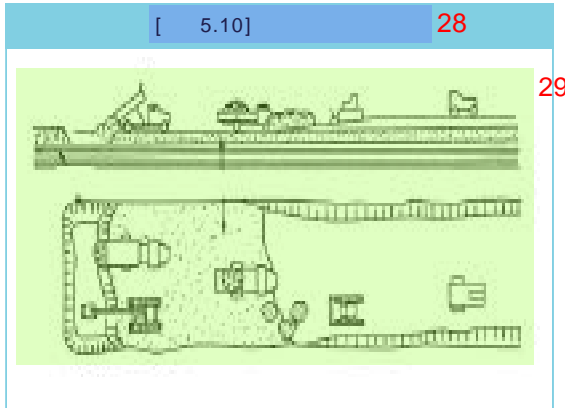


\* 20  
1. 21  
가 ( )  
23

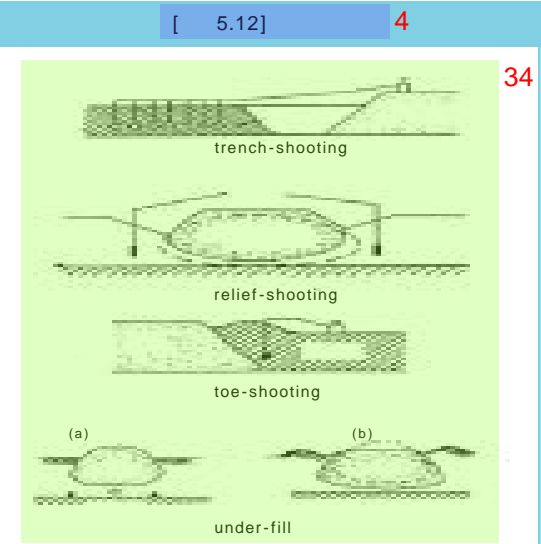
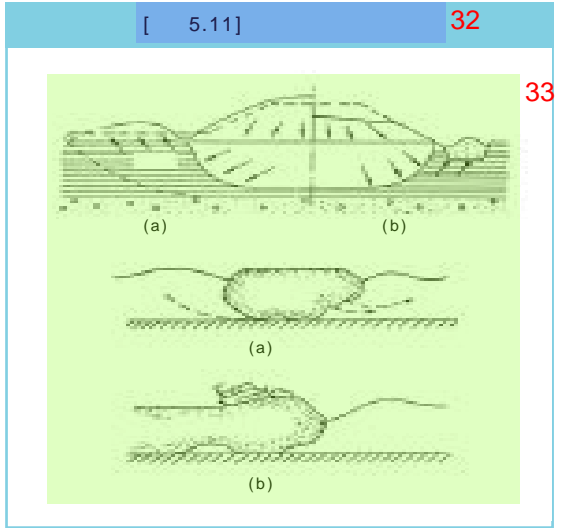
2. 24  
(1) 가

3  
(2) 25

3. 26  
가3m 27



4. 30  
31



6. 35  
2 36

37  
38

“ , 1995

“ , 1995

“ 6 , ”

, 1997

M. J. Tomlinson, “ Foundation Design and Construction ”

, 1995

“ , 1996