

Technical Report

[Redacted] [Redacted] [Redacted] ()

[Redacted] | [Redacted] 02-3433-7775 | E-mail : ldd7775@mail.ssyenc.co.kr

[Redacted] 가
[Redacted]
[Redacted]
가 가
가
가 " "
가
가

[Redacted]
가
[Redacted]
[Redacted]
[Redacted]

1. [Redacted]
2. [Redacted]
3. [Redacted]
4. [Redacted]
5. [Redacted]

5.1 [Redacted]
5.2 [Redacted]
5.3 [Redacted]

6. [Redacted]

5. [Redacted]

5.1 [Redacted]
[Redacted]

[Redacted]
[Redacted]
[Redacted]
[Redacted]
가
[Redacted]

5.2 [Redacted]
가
3가
[Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]
[5.1], [5.2], [5.3] [Redacted]
[Redacted]

5.3 [Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]
가
[Redacted]

5.1

			가
	, Water		
		(S.C.P)	

[5.2]

	가		
	()		

[5.3]

		가	
	가 ()	()	
		가	
		가	
+		() ()	

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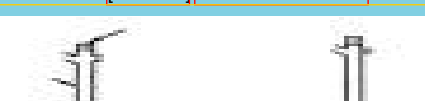
* (SAND DRAIN)

2.


GL-45m

50m 가

5.1

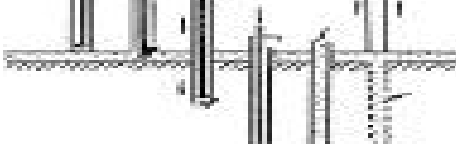


(1)



The diagrams illustrate the progression of a crack in a concrete beam under a load P . The crack starts at the bottom and propagates upwards, eventually reaching the top and continuing through the entire height of the beam.

(2)



(3)

*		(Sand Compaction Pile)
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가, , 가

2.			
(1)	(a _s)	1.0	

					0.4
	0.15				

(2)

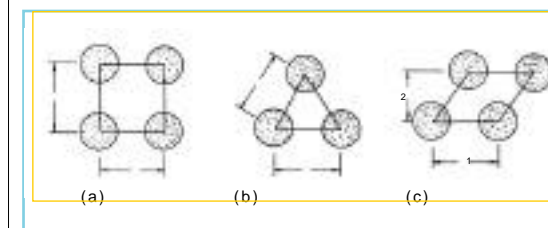
(a_s)

A_s : , A : 1

가 :

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

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



(3)					

- : 60cm ☐ 80cm

(70cm)

- : 100cm ~ 200cm

(160cm 200cm)

- : 80cm ~ 120cm 入

--	--

35 ☐ 45cm

3.

(1)

[5.4] Sand Compection Pile

	,가 ,	(CP
		(SS
		NTK

(2) Ø 400 ~ 500 mm

	Ø700 mm	
--	---------	--

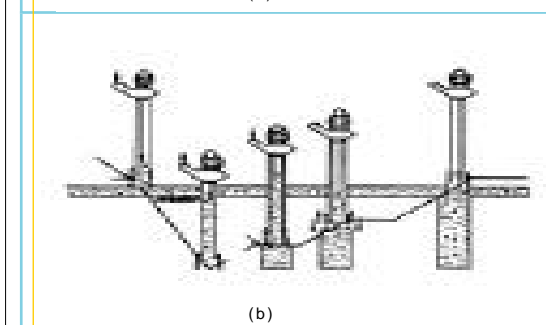
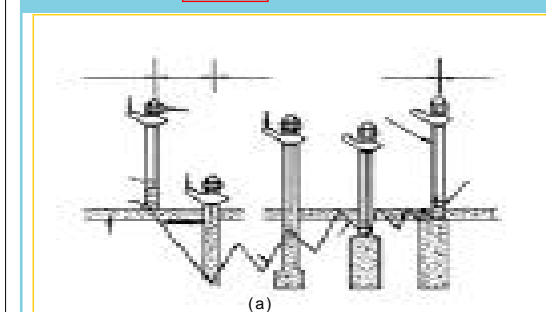
Ø 800~1200 mm

☐ Ø1000 ~ 2000 mm ☐

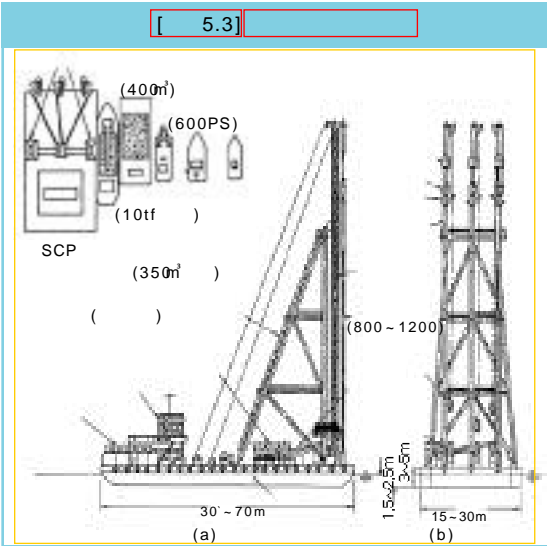
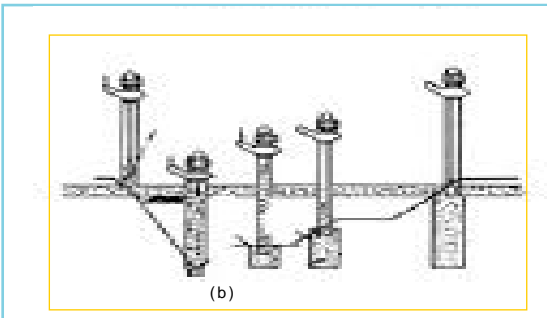
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1.3~2.0

[5.2]



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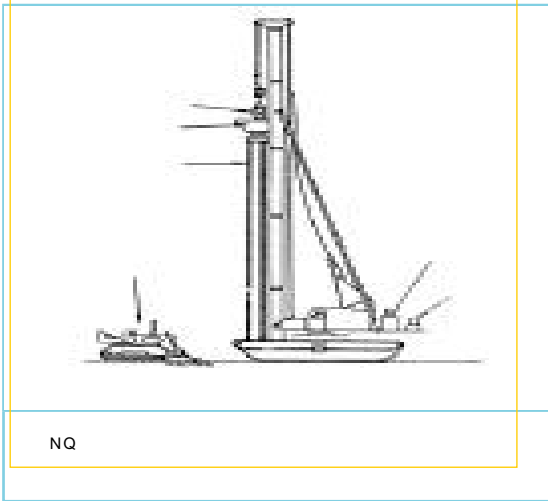
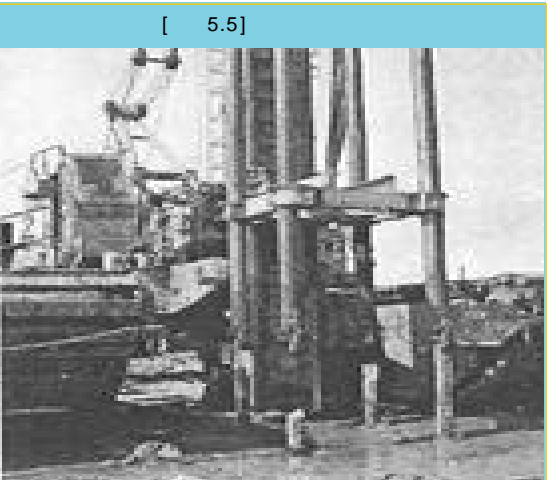
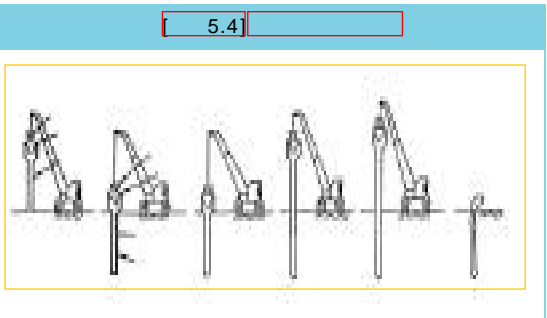
* (PACK DRAIN)

1. 가
- 가
- (1) 12cm 가
- (2) 가
- (3) 가
- (4) 가

- 가
- (5) 가
- (6) 가

2. GL-30 m GL-40m 가

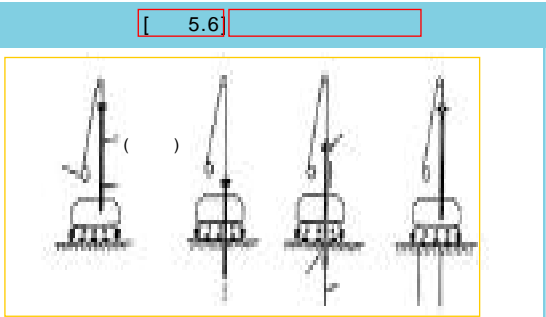
3. 가
- 4



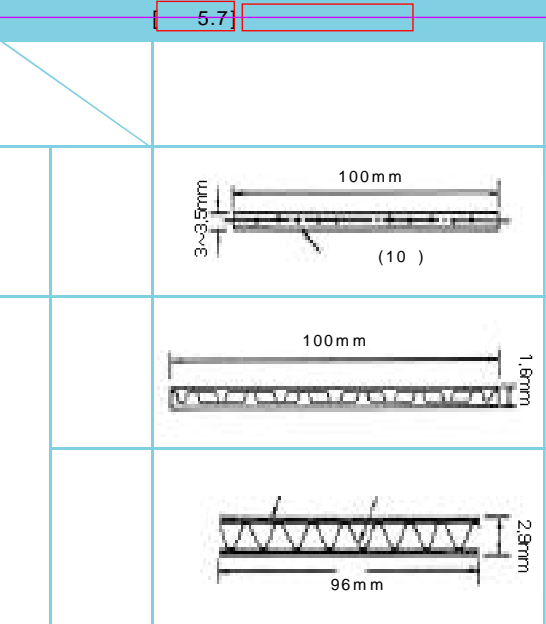
(PAPER DRAIN)

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

3. Rod ()



4. 가
- (10⁻¹ ~ 10⁻² cm/sec)
- < 5.7 > 5.5 >



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[5.5]				
		3 ~ 3.5 mm		
		100 mm		
		10		
	10	30 mm²		
()	15mm	35 kg		
()	15mm	9 kg		
		75cm 50 kg		

()

1. (10 ~ 50 ton)

10m ~ 30m

가

1960

2. (1)

(1)

(3)

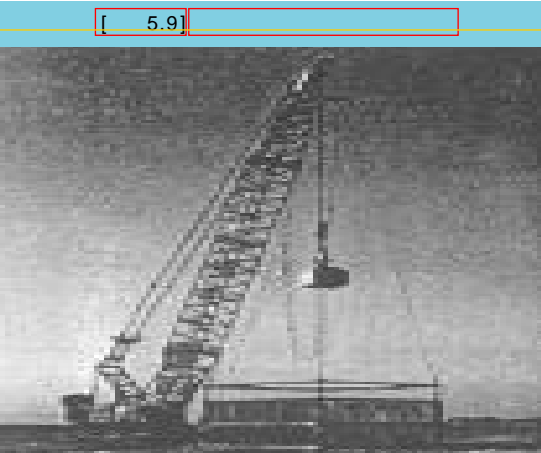
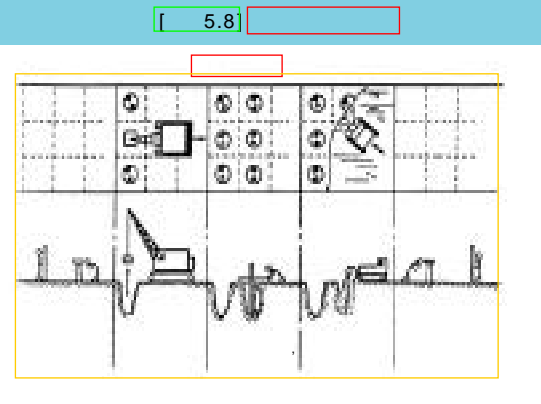
가

(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. ()

()

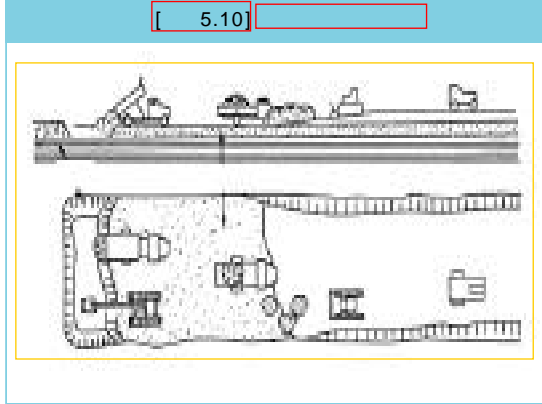


* (1)

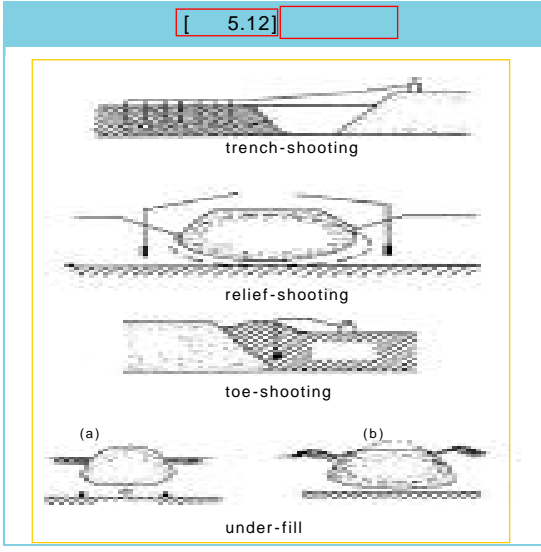
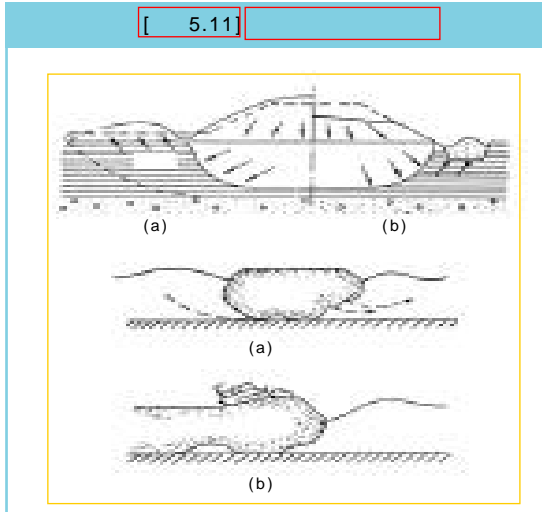
가 ()

2. (1) 가

(2) 가 3m



4. ()



6. 2

1995

1995

6

1997

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

1995

1996