

6.
 >>>>
 R.J.P

10mm
 가

7.
 >>>>

6-1. R.J.P
 R.J.P

Test Pile 18 (5%)

Double Core Barrel

가 가
 20~50 kg/cm²

가
 30 kg/cm²
 20 kg/cm²

R.J.P

6-2.
 R.J.P

4
 35.4 ~ 52.6m²/
 35t²

11mm ~ 22mm

80%

10t²가

1. Braja M.Das, Principle of Foundation Engineering
 2. Burland, Broms1977, M.J, Tomlinson
 3.
 4. Josep. E. Bowles, Foundation analysis and design
 5.
 6. OO
 7. vol.12, EA.8,1994. p65 ~ 73
 8.
 9.

Tower Crane

| 02)3433-7732 | E-mail: leebg@ssyenc.co.kr
 | 02)3433-7393 | E-mail: kyumi@ssyenc.co.kr

1.
 >>>>

Tower Crane
 , T/C , Jib ,
 Tower Crane

Tower Crane
 T/C

2.
 >>>>

3. Tower Crane

>>>>

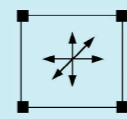
3-1. (Stationary Type)

가 50m

3-2. (Lateral Anchoring Type)

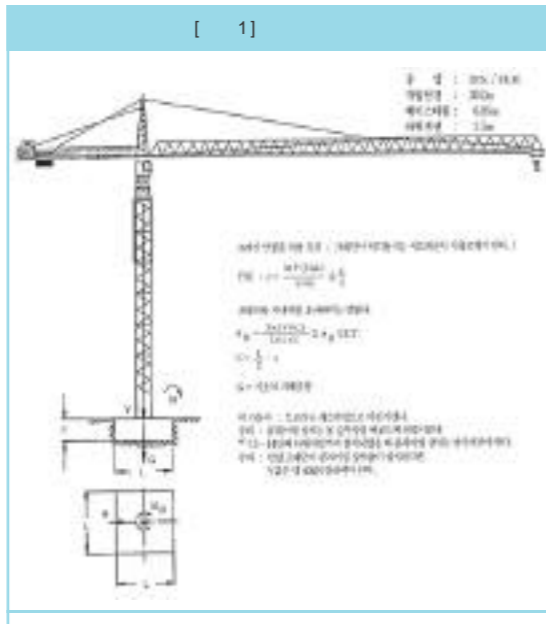
가 50m

가 Tower Crane
 Type T/C
 T/C Mast
 T/C

Tower Crane	Jib	
T/C Hook	T/C	
	(Stationary, anchoring, Climbing Type)-	
Tower Crane	T/C)-	
T/C	(MD, M, H, V),	
		Stationary Type, Lateral Anchoring Type, Climbing Type -가, (,) (Base Plate)
	Jack Support (150) (H-250 ~ 300) ,	2-3

Trouble shooting

3-3. (Climbing Type)
가
T/C
Opening T/C
Opening T/C
Opening (Traveling Type)
가 가
가 Tower Crane
Tower Crane
가



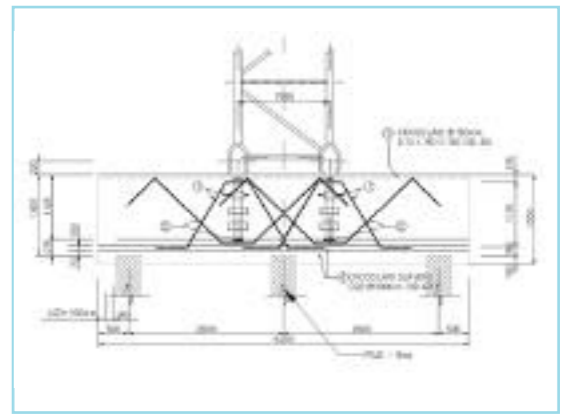
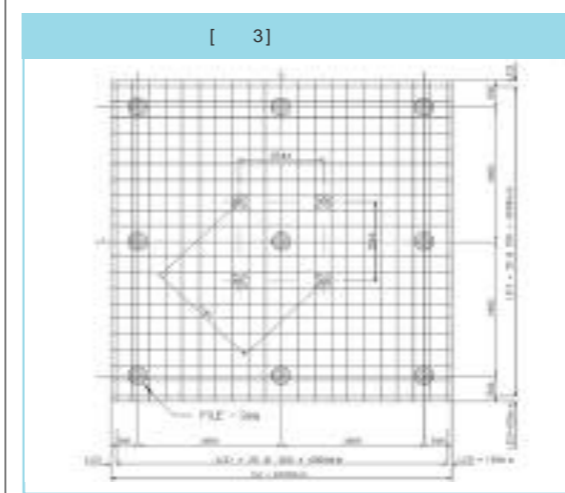
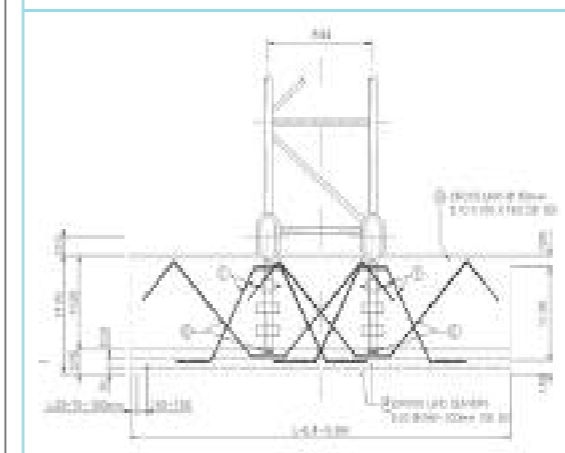
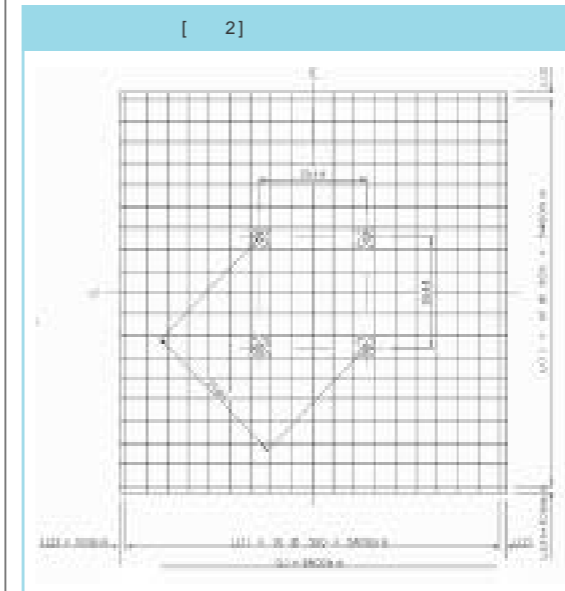
4. >>>>
4-1. 가 Tower Crane
Standard Detail T/C
T/C
T/Ø
Frame
Size B x 5W = 5.5 ~ 7m x 5.5 ~ 7m,
Depth = 1.4m,
20ton/m²
10 ~ 12ton PHC PILE 9ea- 400
8ton PC PILE 9ea- 350 가
T/C 가
, T/C 가

가

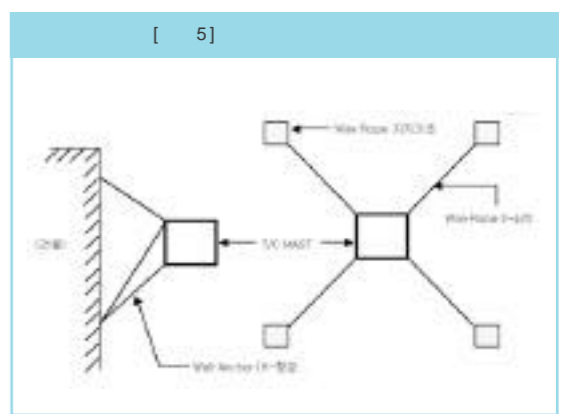
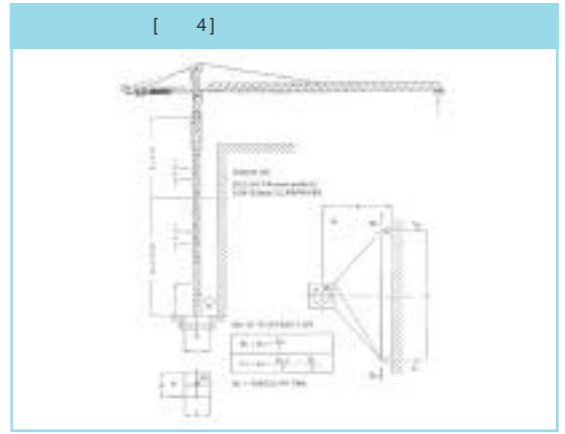
	가			가			
	M [kNm]	H [kN]	V [kN]	M [kNm]	H [kN]	V [kN]	
0	10.1	1136	17	403	882	25	321
1	12.6	1181	18	413	963	28	331
2	15.1	1227	18	424	1088	33	342
3	17.6	1275	19	434	1185	35	352
4	20.1	1325	20	445	1333	40	362
5	22.6	1377	21	455	1491	44	373
6	25.1	1431	21	465	1647	47	383
7	27.6	1486	22	476	1835	52	393
8	30.1	1543	23	486	1987	55	404
9	32.6	1602	23	496	2145	57	414
10	35.1	1663	24	507	2310	60	425
11	37.6	1725	25	517	2481	62	435
12	40.1	1790	26	528	2659	65	446
*)13	42.6	1778	26	538	2557	62	456
*)14	45.1	1840	27	549	2727	65	467

가
MD = 155kNm

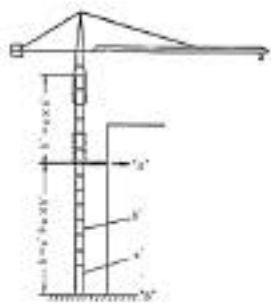
Sample [2, 3] [2, 3] .
4-2. (1) T/C MAST (10m)
T/C Anchor Bolt 가
가 가



(2) Wire Rope T/C
, T/C 1 2 가
. Wire Rope 2-ø25 4
[4, 5, 6] .



[6]



정면에 대하여 평면이 세워져 있는 다음해설의 수량 :
 max. a=12
 max. b=12
 max. c=12
 max. d=12
 max. e=12
 max. f=12
 max. g=12
 max. h=12
 max. i=12
 max. j=12
 max. k=12
 max. l=12
 max. m=12
 max. n=12
 max. o=12
 max. p=12
 max. q=12
 max. r=12
 max. s=12
 max. t=12
 max. u=12
 max. v=12
 max. w=12
 max. x=12
 max. y=12
 max. z=12

A

M_D	$H_A = H + \frac{3 \times q \times h}{8} + \frac{3 \times M}{2 \times h}$
-------	---

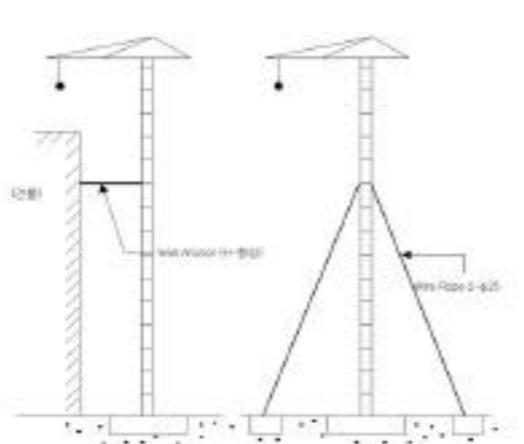
B

$H_B = \frac{3 \times M}{2 \times h} - \frac{5 \times q \times h}{8}$
$M_B = 0.5 \times M + \frac{q \times h^2}{8}$
$V_{total} = V + \alpha \times G \times G'$

MD = (KNm)
 V = (KN)
 G = 1 b' = 2.5m G = 980kg
 G' = a' = 6.85m G' = 2760kg
 H = (KN)
 q = (KN/m)
 0.29KN/m'
 1.26KN/m'
 (, 100m)
 1.49 KN/m'
 (, 100m)
 h = (m)
 M = (Overturning moment, KN/m)

M, H, V M_D " " .
 " "
 . (= 2x)

[7]



4-3.

T/C

가

3 1Set

(1)

Temporary Steel Beam(H-300x300
 x10x15) , T/C MAST 3

(4) Jack Support ,

가 가 .

(2)

T/C

가

Slab

L-

Bracing . ,

T/C

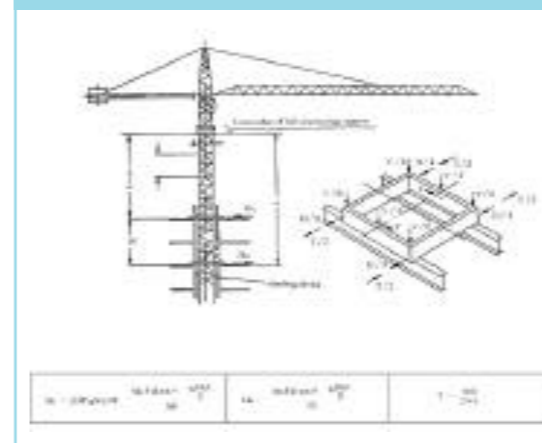
가

Jack

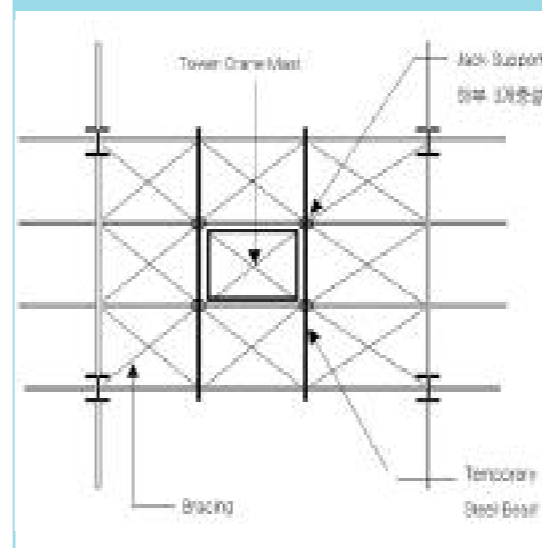
Support

가

[8]



[9]



(3) Tower Crane Climbing

Tower Crane Climbing ,

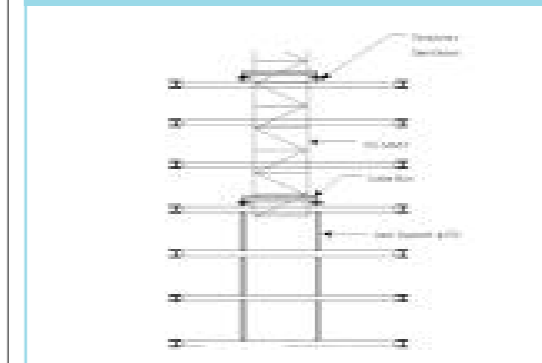
T/C

T/C

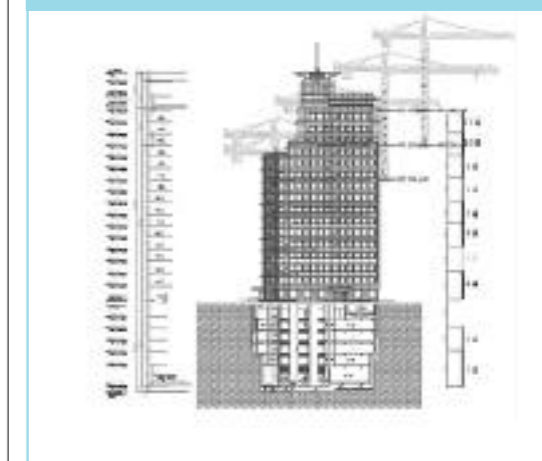
Climbing 가 ,

Climbing

[10]



[11]



5.

>>>>

가

가

가

Tower Crane

T/C