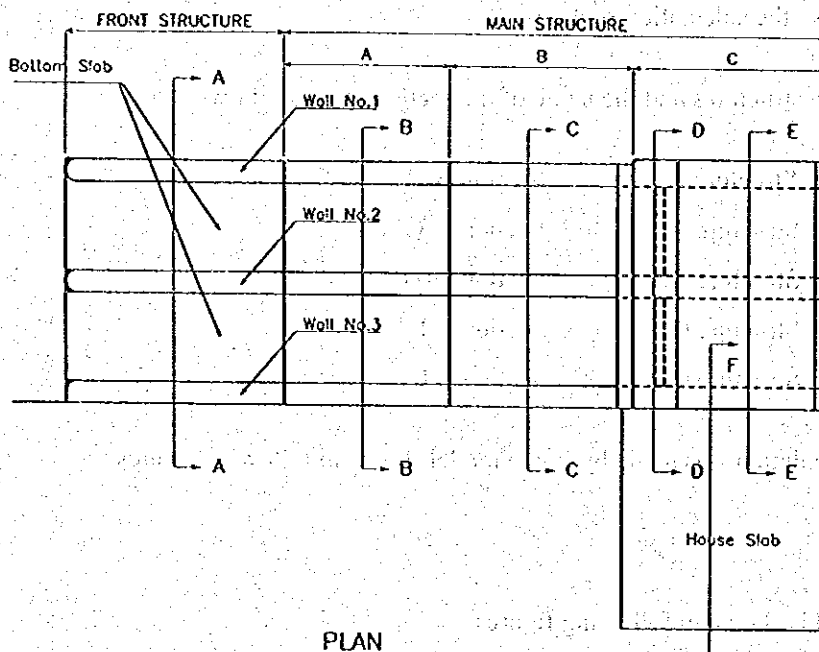


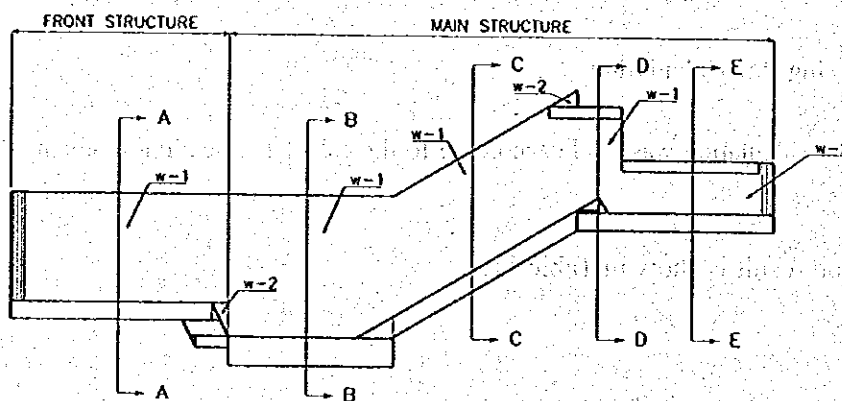
Name of Structure	BARU PUMPING STATION	Category Calculation	Structural Analysis	Page	35/37															
4. Reinforcing Bar Calculation																				
4.1 Moment Calculation of Members																				
4.1.1 Front Structure (Section B-B)																				
(1) Model																				
Fig. (3) shows the calculation sections.																				
Names of the structures and the name of the sections are as follows:																				
<table><tr><td>Front Structure</td><td>-</td><td>Section B-B</td></tr><tr><td>Main Structure A</td><td>-</td><td>Section C-C</td></tr><tr><td>Main Structure B</td><td>-</td><td>Section D-D</td></tr><tr><td>Main Structure C-1</td><td>-</td><td>Section E-E</td></tr><tr><td>Main Structure C-2</td><td>-</td><td>Section F-F</td></tr></table>						Front Structure	-	Section B-B	Main Structure A	-	Section C-C	Main Structure B	-	Section D-D	Main Structure C-1	-	Section E-E	Main Structure C-2	-	Section F-F
Front Structure	-	Section B-B																		
Main Structure A	-	Section C-C																		
Main Structure B	-	Section D-D																		
Main Structure C-1	-	Section E-E																		
Main Structure C-2	-	Section F-F																		
Moment calculation was made by frame model shown in following figures.																				
(2) Load																				
Load applied is shown in following figures.																				
(3) Moment, Shear Stress, Axial Stress																				
Calculation bending moment, shear stress and axial stress are shown in following figures.																				
4.2 Reinforcing Bar Calculation																				
Reinforcing Bar calculation was made according to the calculated bending moment, shear stress and axial force.																				
The calculation result is show in Table 11.																				

Name of Structure	BARU PUMPING STATION	Category Calculation	Structural Analysis	Page	36/37
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Fig. 3 Calculation Section of Moment



PLAN

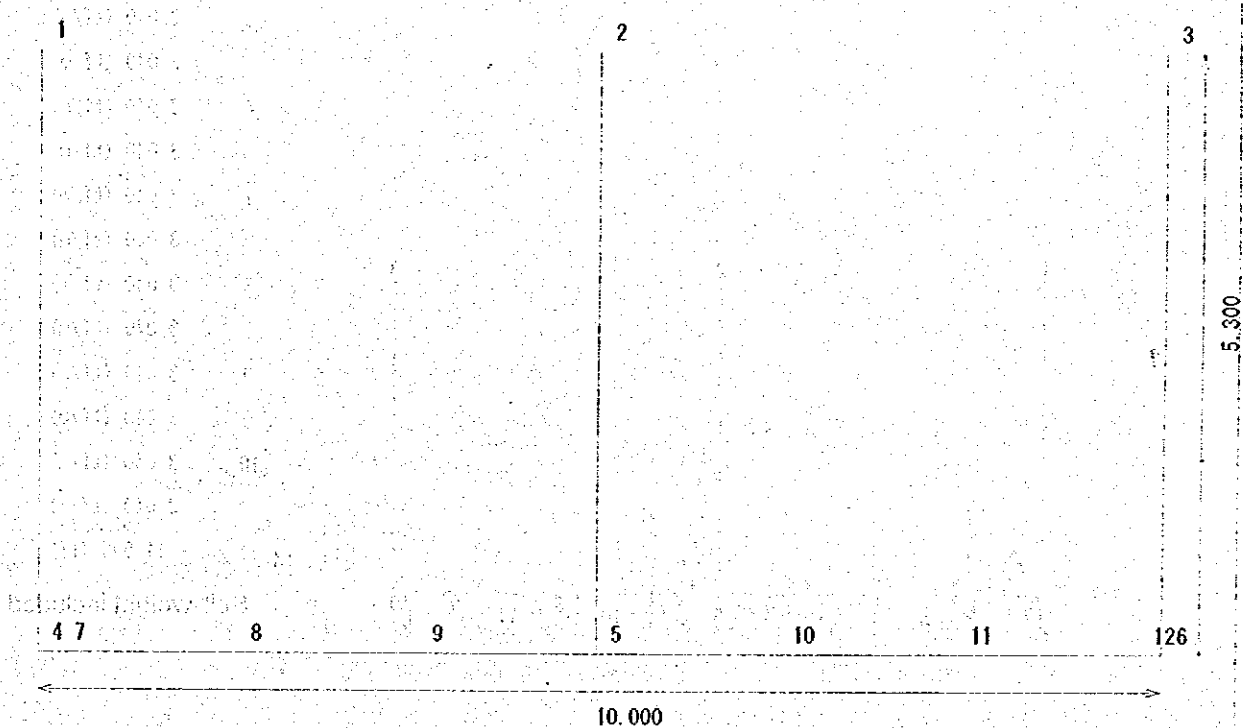


LONGITUDINAL PROFILE

Baru-pumping station (A-A)

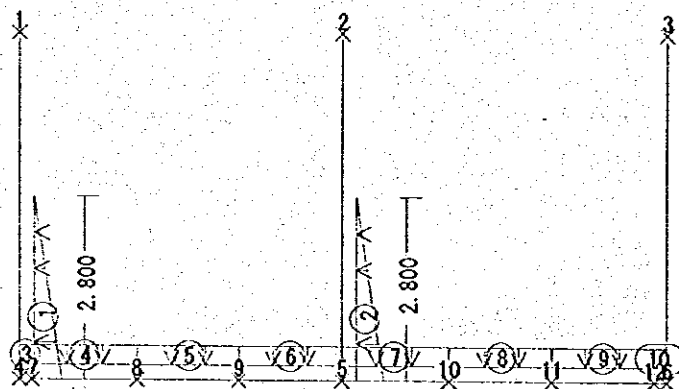
縮尺 1/ 65

骨組図



Baru-pumping station (A-A)

Case 1 : A-A Normal

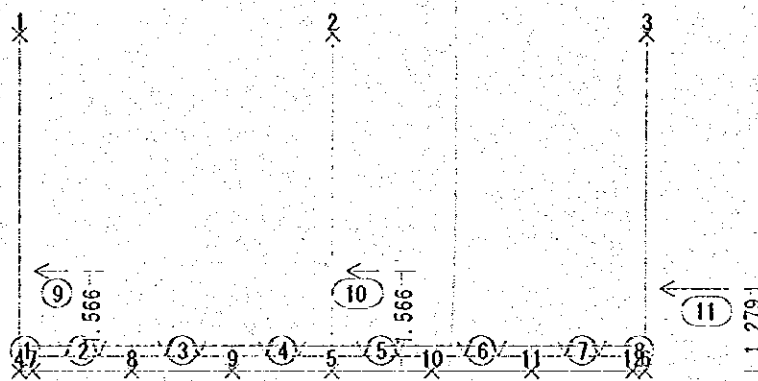


Load	
①	-4.480 (tf/m)
	0.000 (tf/m)
②	-4.480 (tf/m)
	0.000 (tf/m)
③	3.040 (tf/m)
	3.040 (tf/m)
④	3.040 (tf/m)
	3.040 (tf/m)
⑤	3.040 (tf/m)
	3.040 (tf/m)
⑥	3.040 (tf/m)
	3.040 (tf/m)
⑦	3.040 (tf/m)
	3.040 (tf/m)
⑧	3.040 (tf/m)
	3.040 (tf/m)
⑨	3.040 (tf/m)
	3.040 (tf/m)
⑩	3.040 (tf/m)
	3.040 (tf/m)
⑪	-11.995 (tf)

Self-weight included

Baru-pumping station (A-A)

Case 2 : A-A Seismic



Load

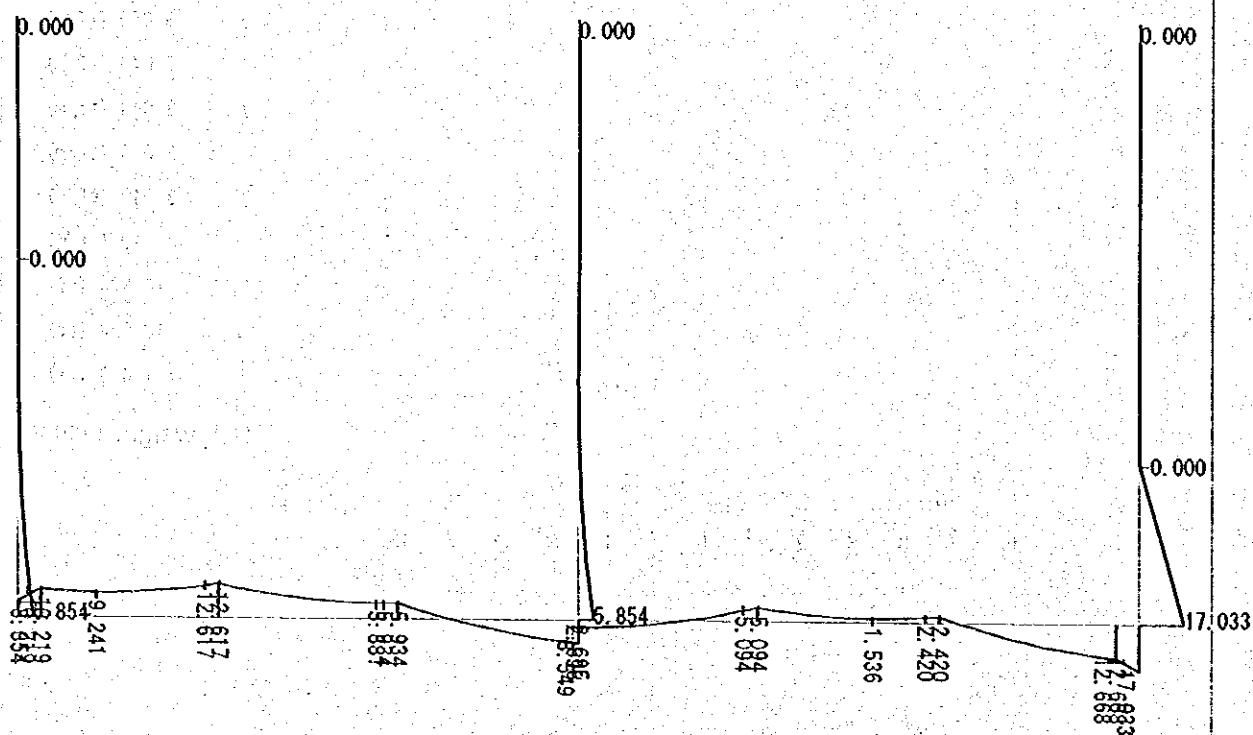
①	3.040 (tf/m)
②	3.040 (tf/m)
③	3.040 (tf/m)
④	3.040 (tf/m)
⑤	3.040 (tf/m)
⑥	3.040 (tf/m)
⑦	3.040 (tf/m)
⑧	3.040 (tf/m)
⑨	-10.924 (tf)
⑩	-10.924 (tf)
⑪	-21.453 (tf)

Self-weight included

Baru-pumping station (A-A)


Case 1: A-A Normal

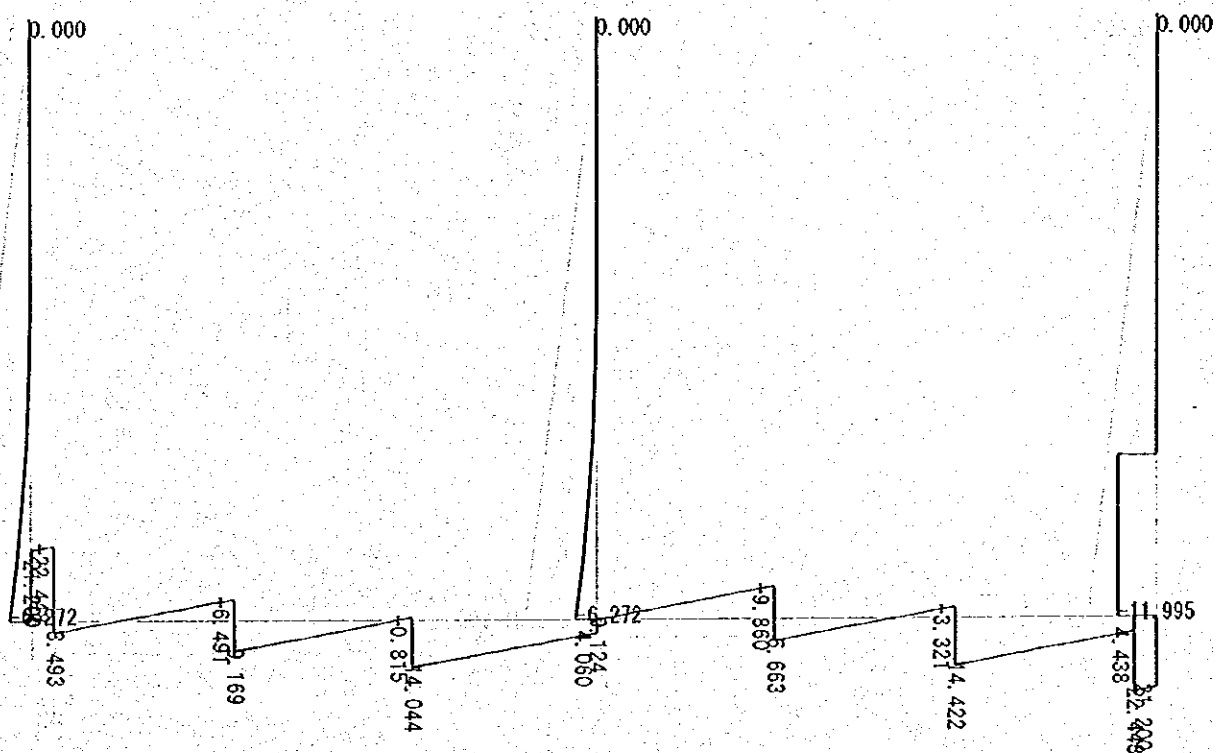
Bending Moment Scale : 27.44tf·m max. : 17.03 tf·m



Baru-pumping station (A-A)

Case 1: A-A Normal

Shear Stress Scale  : 22.45tf max. : -22.45 tf

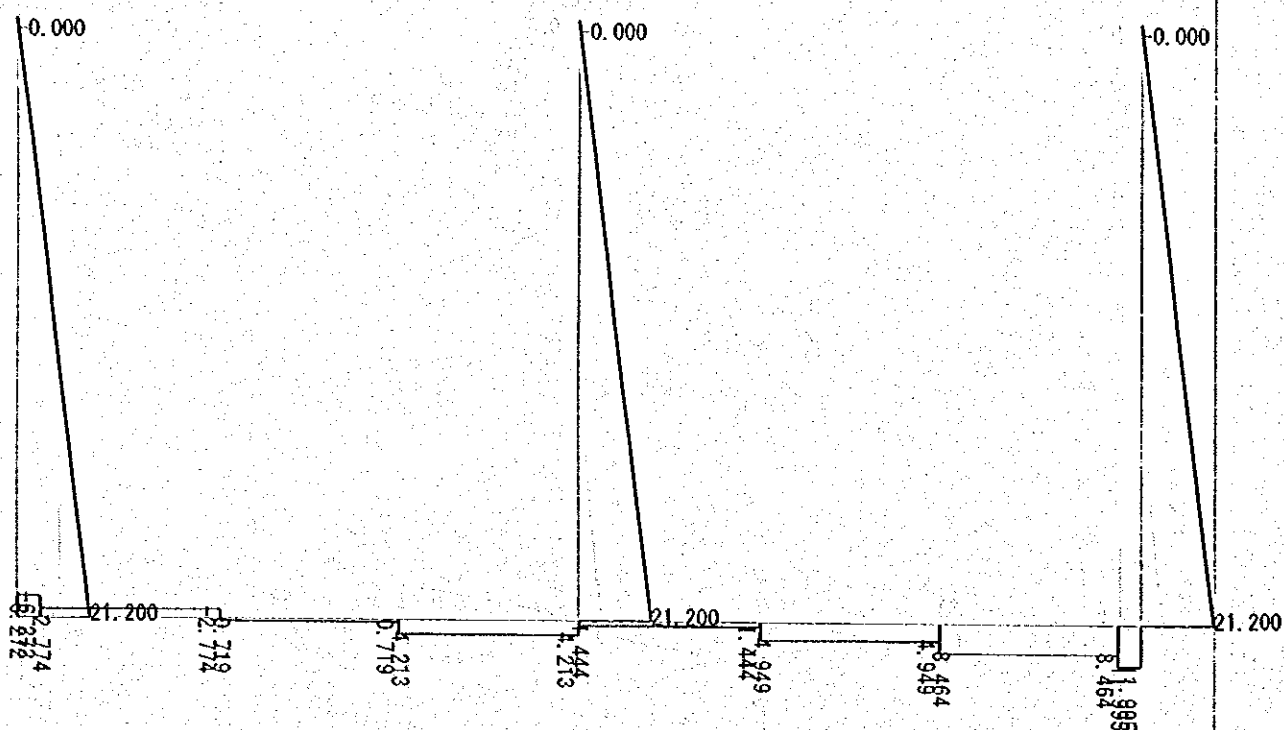


Baru-pumping station (A-A)

Case 1: A-A Normal

Axial Stress

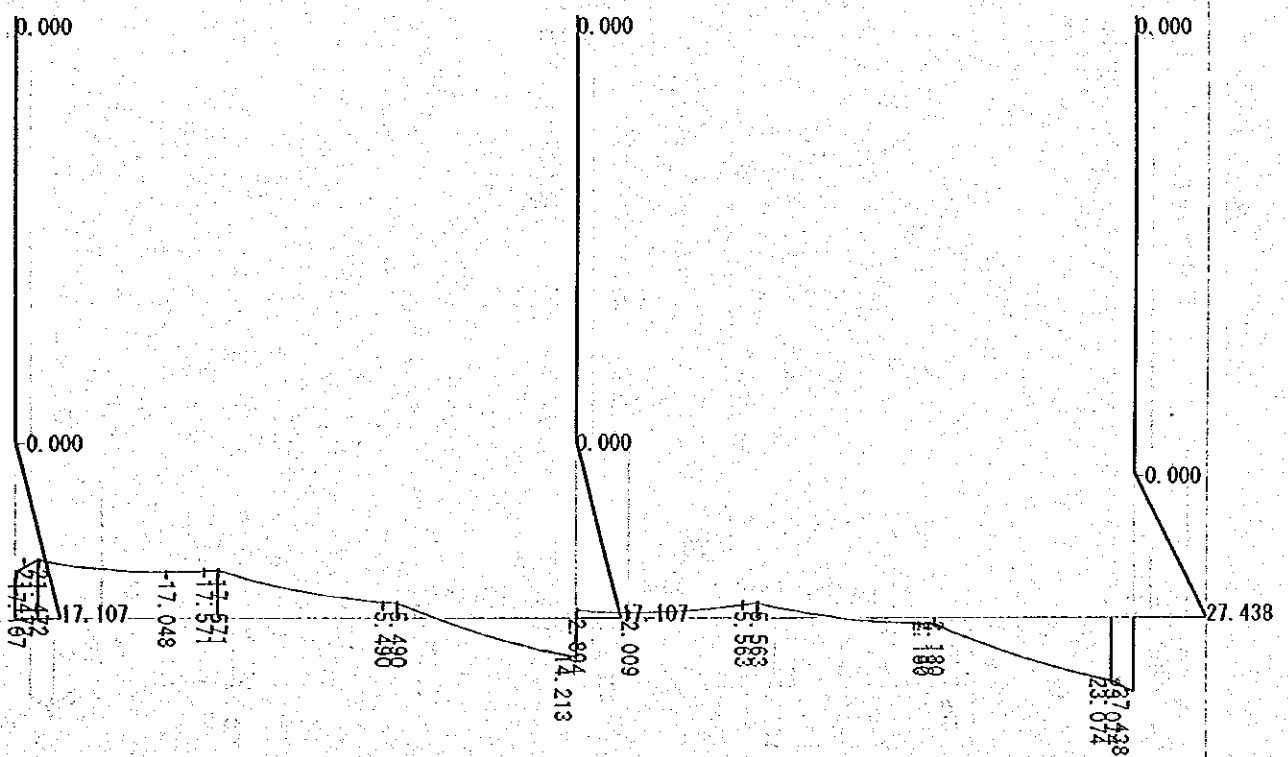
Scale : 21.45tf max. : 21.20 tf



Baru-pumping station (A-A)

Case 2: A-A Seismic

Bending Moment Scale : 27.44tf·m max. : 27.44 tf·m



Baru-pumping station (A-A)

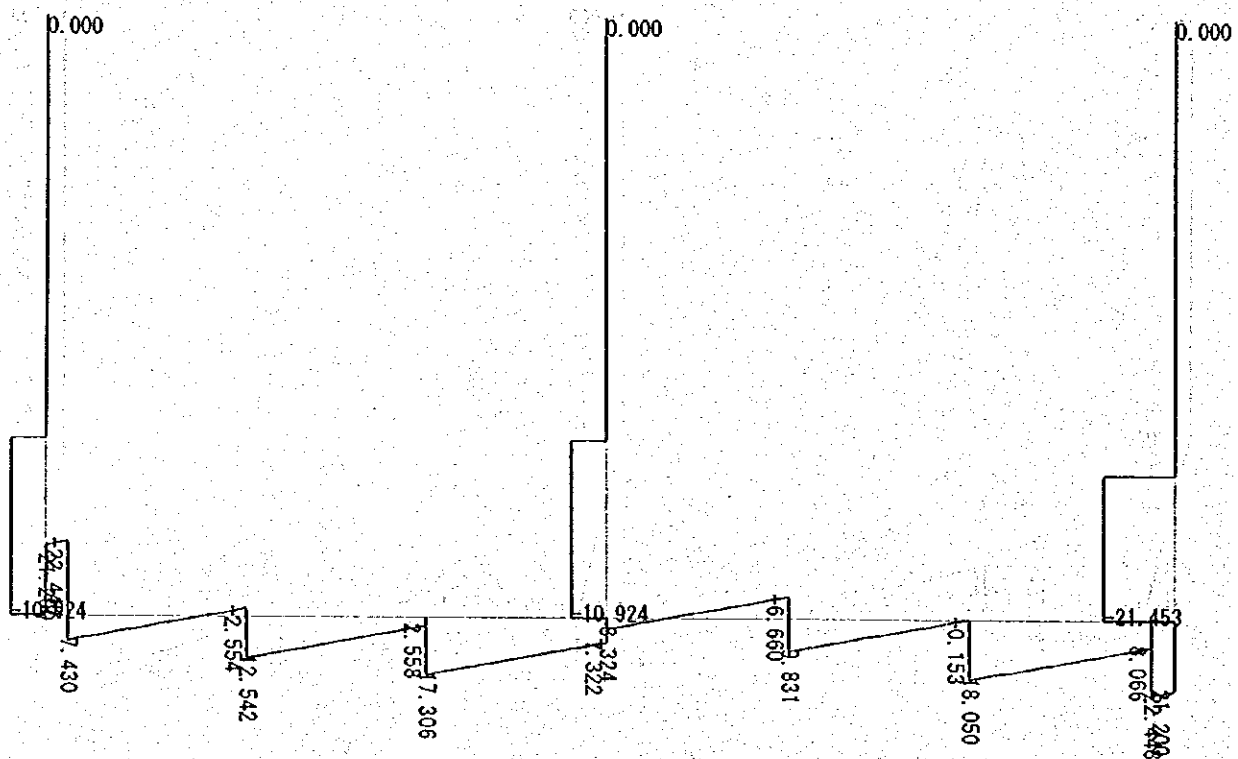
Case 2: A-A Seismic

Shear Stress

Scale

1 : 22.45tf

max. : -22.45 tf

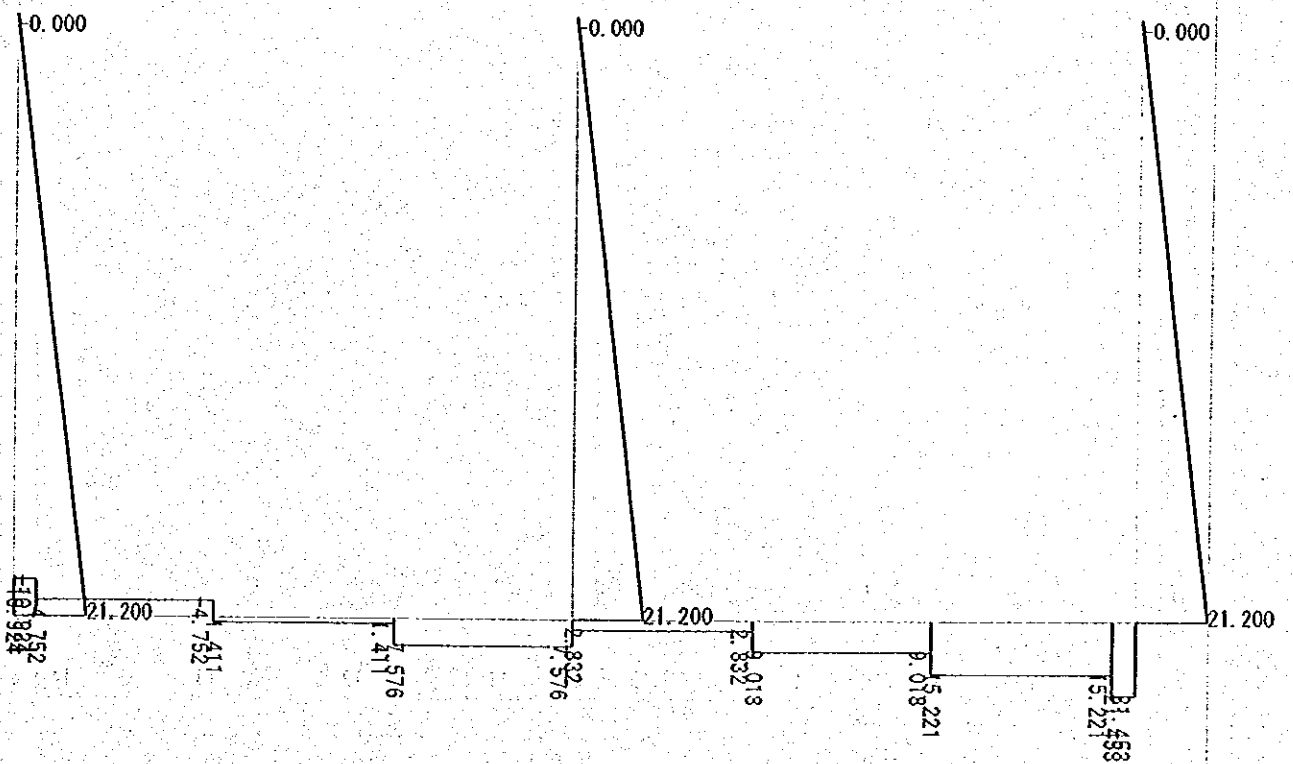


Baru-pumping station (A-A)

Case 2: A-A Seismic

Axial Stress

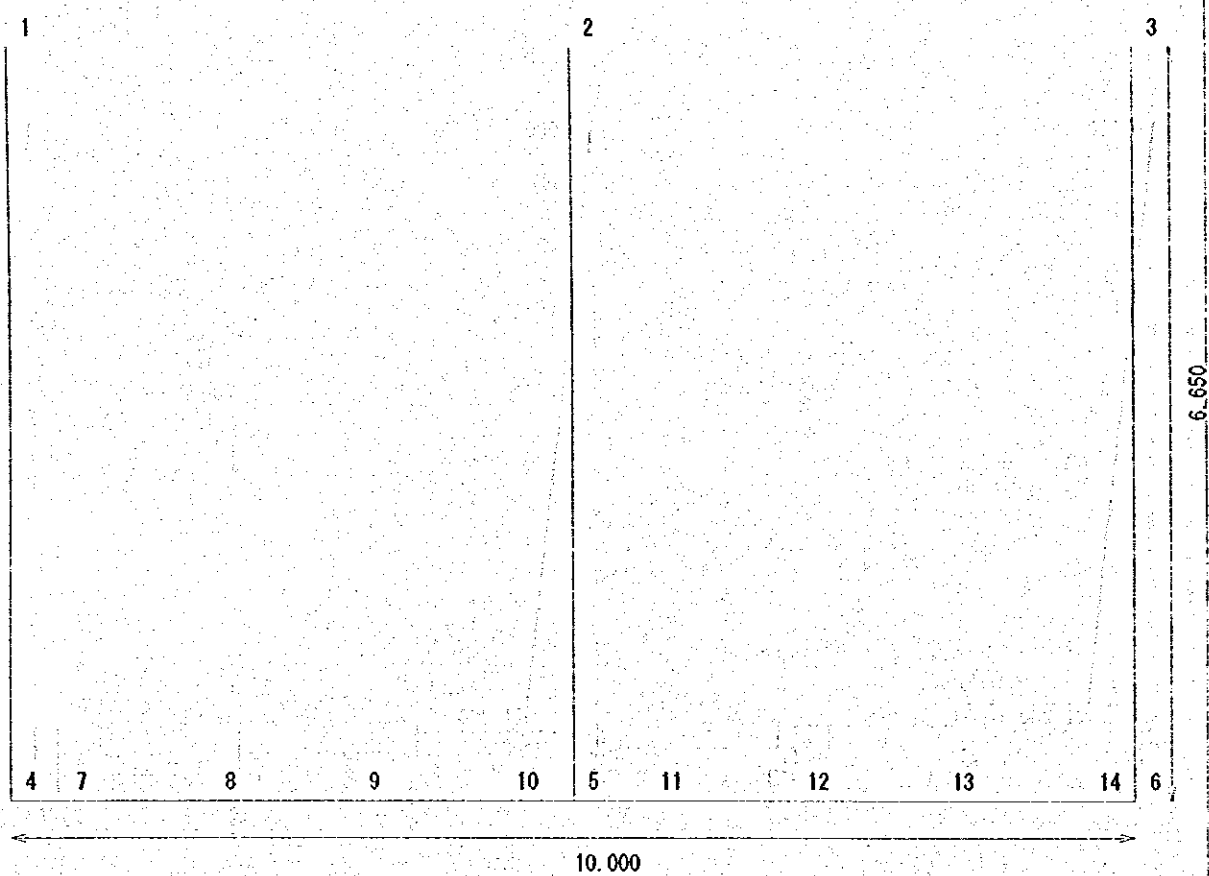
Scale : 21.45tf max. : 21.45 tf



Baru-pumping station (B-B)

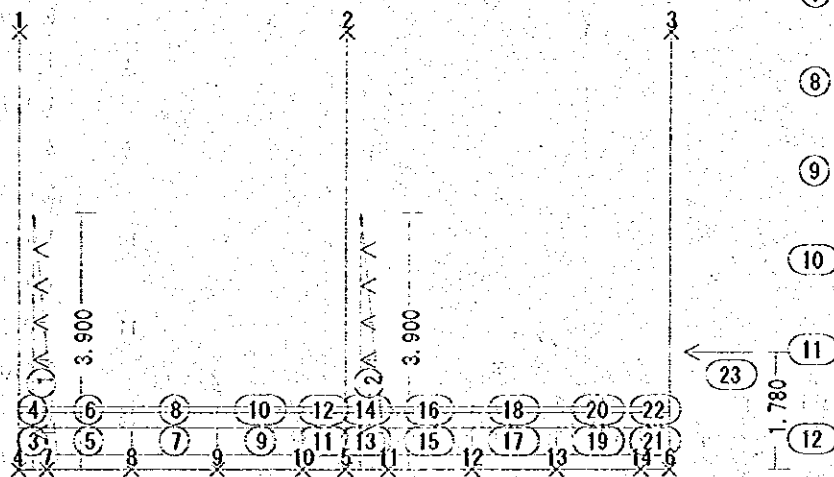
縮尺 1/ 65

骨組図



Baru-pumping station (B-B)

Case 1 : B-B Normal

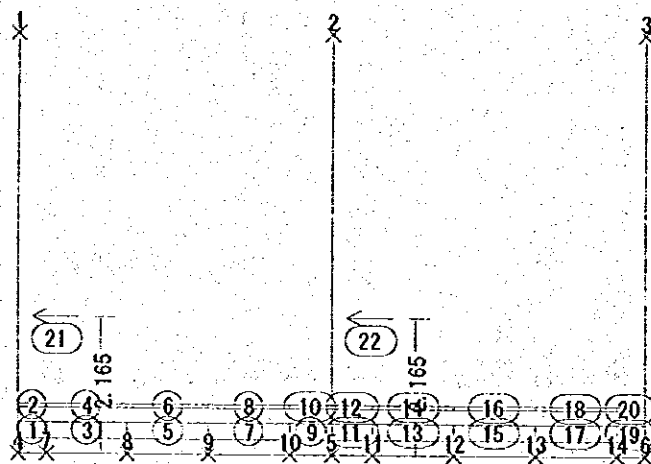


Load

①	-5.070 (tf/m)
	0.000 (tf/m)
②	-5.070 (tf/m)
	0.000 (tf/m)
③	5.070 (tf/m)
	5.070 (tf/m)
④	1.177 (tf/m)
	1.177 (tf/m)
⑤	5.070 (tf/m)
	5.070 (tf/m)
⑥	1.177 (tf/m)
	1.177 (tf/m)
⑦	5.070 (tf/m)
	5.070 (tf/m)
⑧	1.177 (tf/m)
	1.177 (tf/m)
⑨	5.070 (tf/m)
	5.070 (tf/m)
⑩	1.177 (tf/m)
	1.177 (tf/m)
⑪	5.070 (tf/m)
⑫	5.070 (tf/m)
	1.177 (tf/m)
	1.177 (tf/m)
⑬	5.070 (tf/m)
	5.070 (tf/m)
⑭	1.177 (tf/m)
	1.177 (tf/m)
⑮	5.070 (tf/m)
	5.070 (tf/m)
⑯	1.177 (tf/m)
	1.177 (tf/m)
⑰	5.070 (tf/m)
	5.070 (tf/m)
⑱	1.177 (tf/m)
	1.177 (tf/m)
⑲	5.070 (tf/m)
	5.070 (tf/m)

Baru-pumping station (B-B)

Case 2 : B-B Seismic



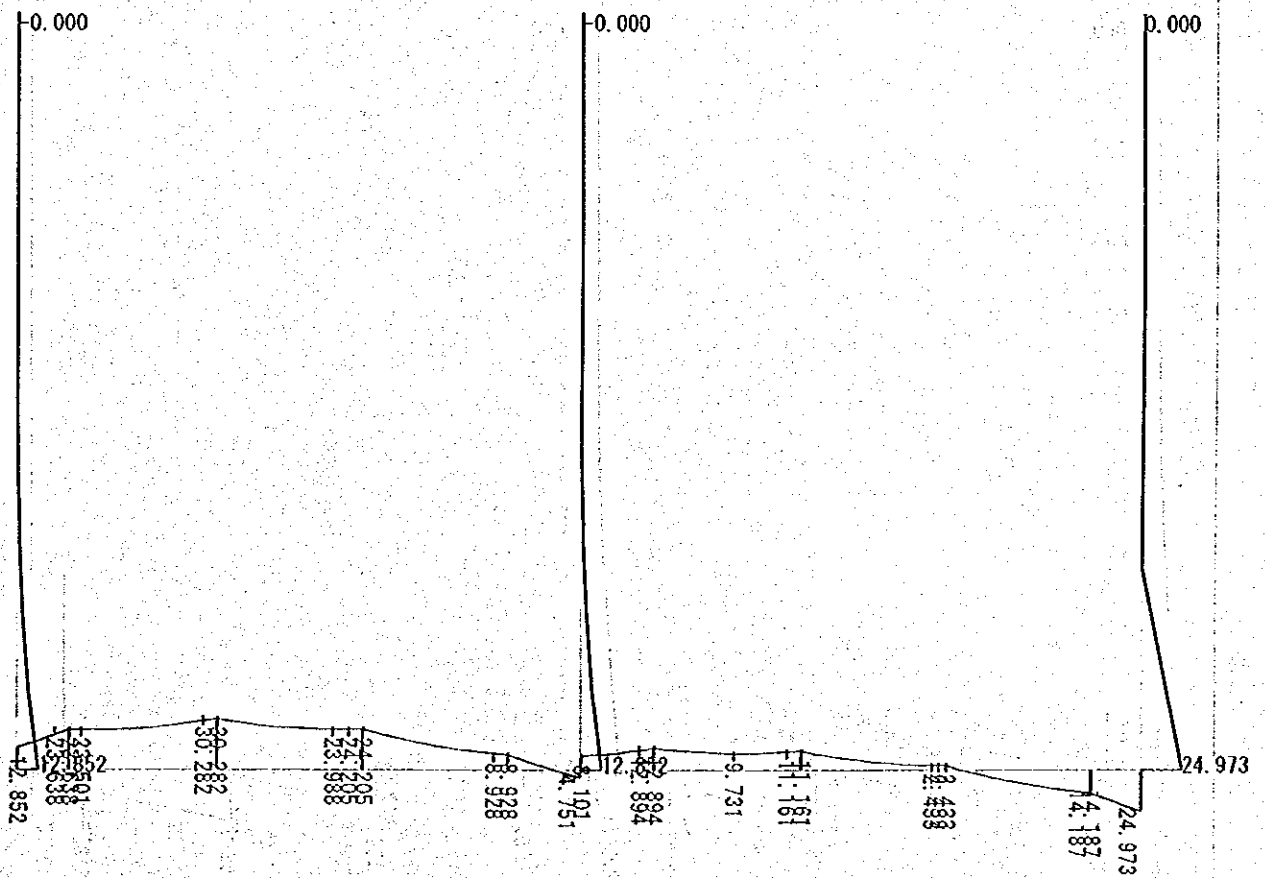
Load

①	5.070 (tf/m)
	5.070 (tf/m)
②	1.177 (tf/m)
	1.177 (tf/m)
③	5.070 (tf/m)
	5.070 (tf/m)
④	1.177 (tf/m)
	1.177 (tf/m)
⑤	5.070 (tf/m)
	5.070 (tf/m)
⑥	1.177 (tf/m)
	1.177 (tf/m)
⑦	5.070 (tf/m)
	5.070 (tf/m)
⑧	1.177 (tf/m)
	1.177 (tf/m)
⑨	5.070 (tf/m)
	5.070 (tf/m)
⑩	1.177 (tf/m)
	1.177 (tf/m)
⑪	5.070 (tf/m)
	5.070 (tf/m)
⑫	1.177 (tf/m)
	1.177 (tf/m)
⑬	5.070 (tf/m)
	5.070 (tf/m)
⑭	1.177 (tf/m)
	1.177 (tf/m)
⑮	5.070 (tf/m)
	5.070 (tf/m)
⑯	1.177 (tf/m)
	1.177 (tf/m)
⑰	5.070 (tf/m)
	5.070 (tf/m)
⑱	1.177 (tf/m)
	1.177 (tf/m)
⑲	5.070 (tf/m)
	5.070 (tf/m)
	1.177 (tf/m)

Baru-pumping station (B-B)

Case 1: B-B Normal

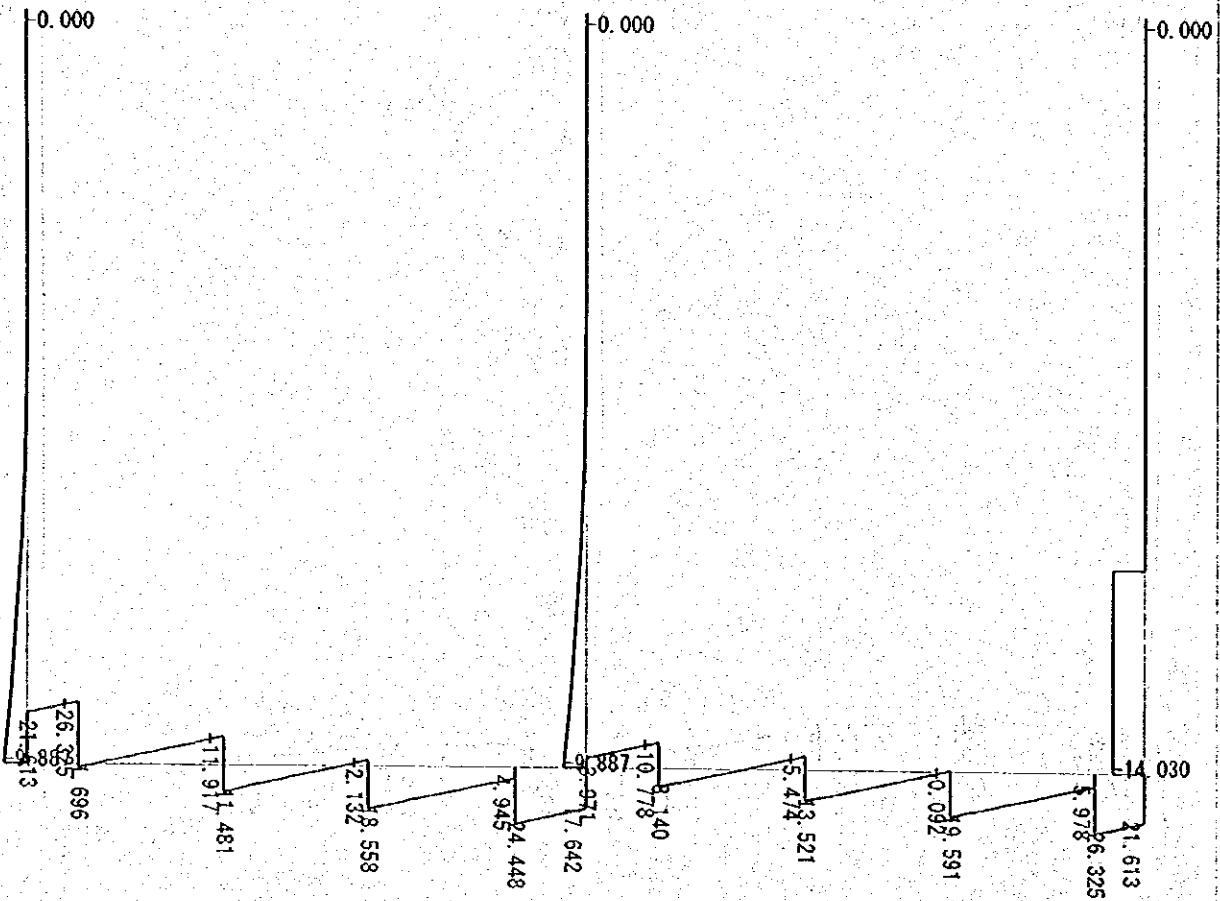
Bending Moment Scale : 44.97tf·m max. : -30.28 tf·m



Baru-pumping station (B-B)

Case 1: B-B Normal

Shear Stress Scale : 31.69tf max. : -26.33 tf

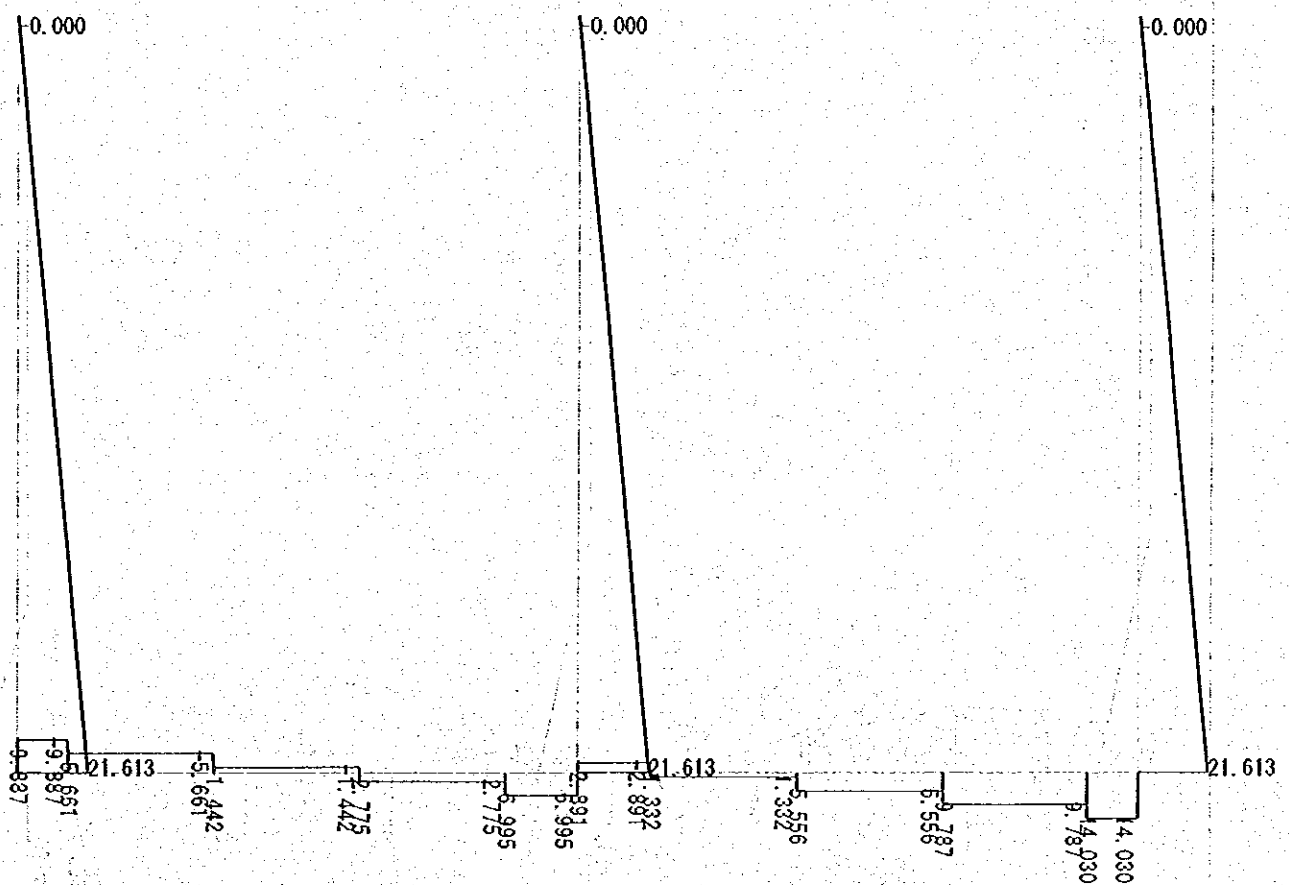


Baru-pumping station (B-B)

Case 1: B-B Normal

Axial Stress

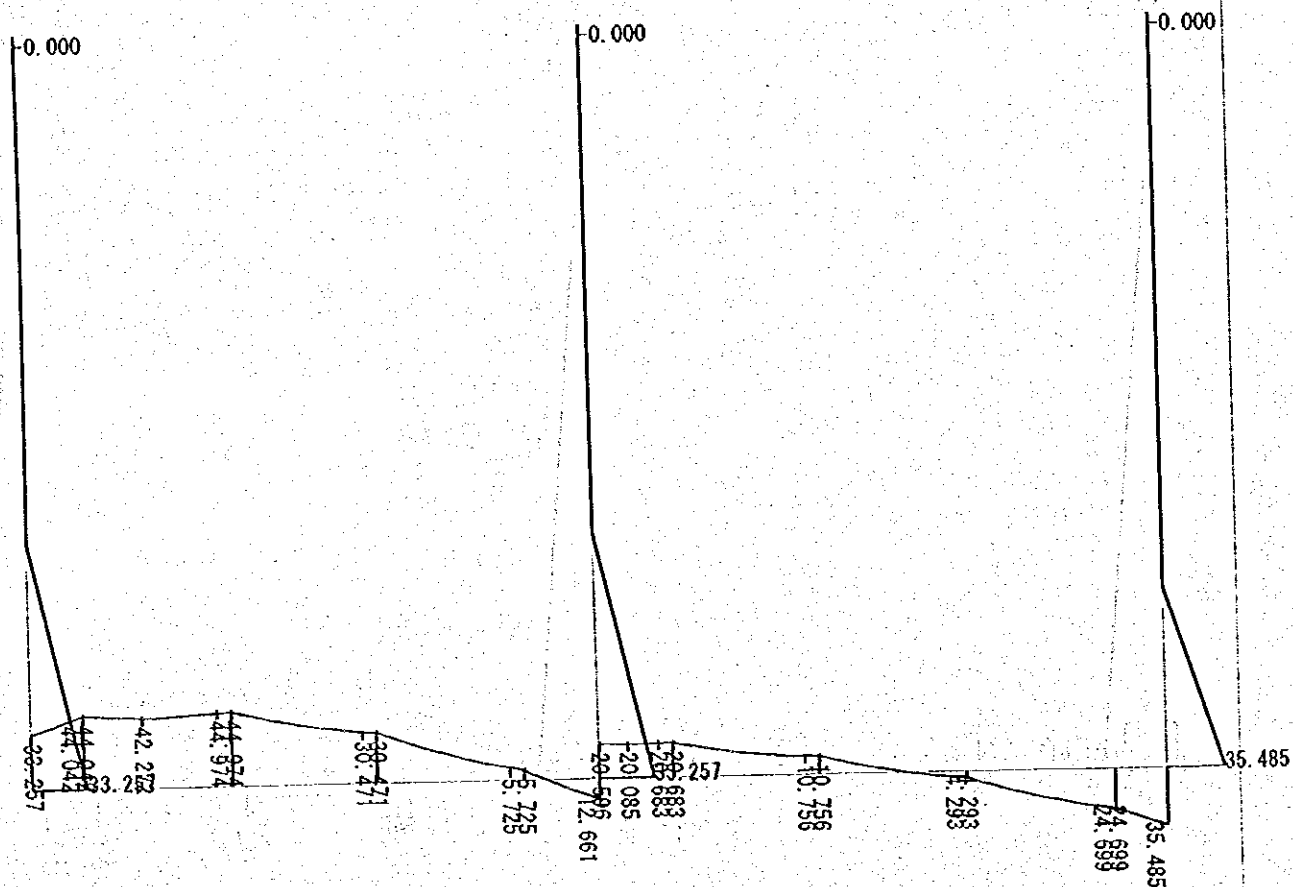
Scale : 22.39tf max. : 21.61 tf



Baru-pumping station (B-B)

Case 2: B-B Seismic

Bending Moment Scale : 44.97tf·m max. : -44.97 tf·m



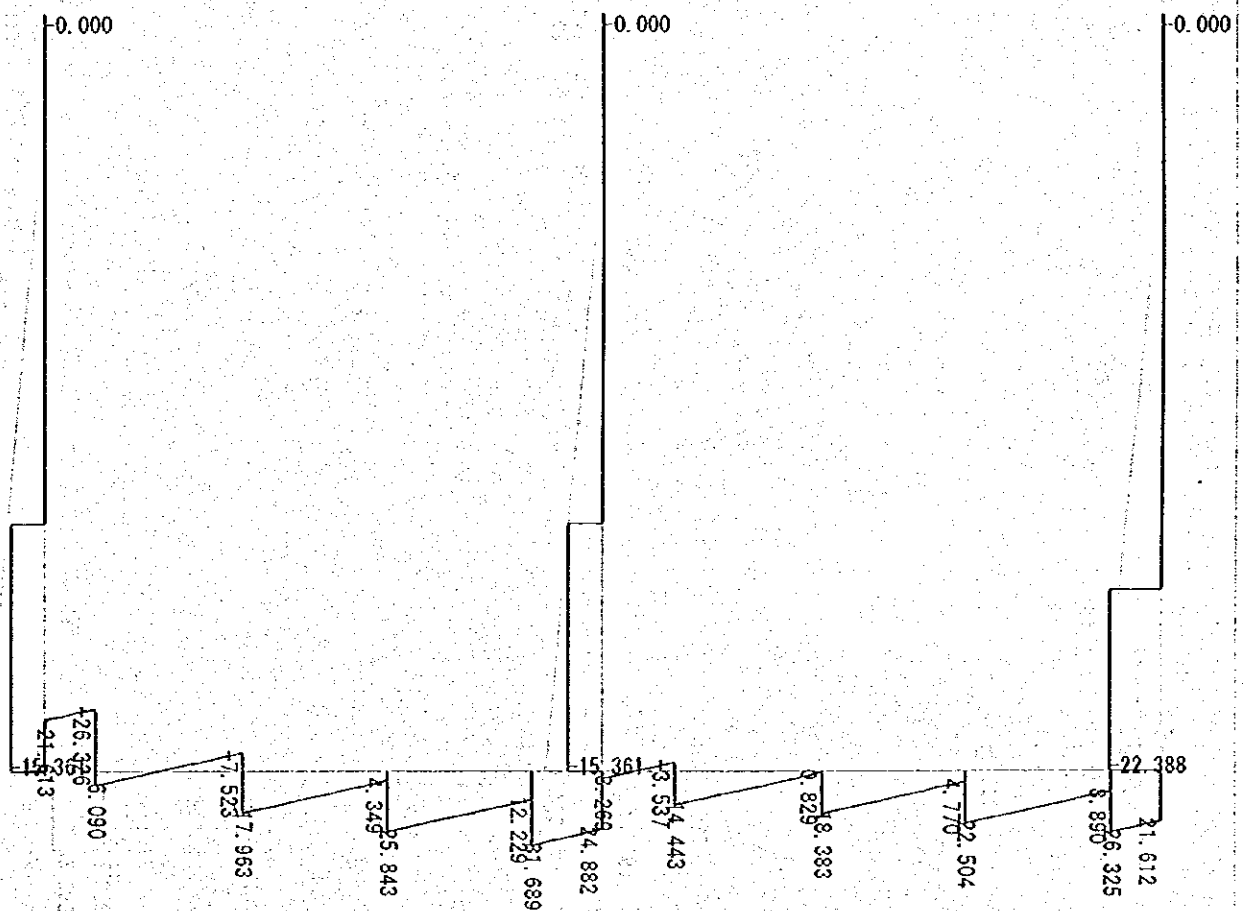
Baru-pumping station (B-B)

Case 2: B-B Seismic

Shear Stress

Scale 1 : 31.69tf

max. : 31.69 tf



Baru-pumping station (B-B)

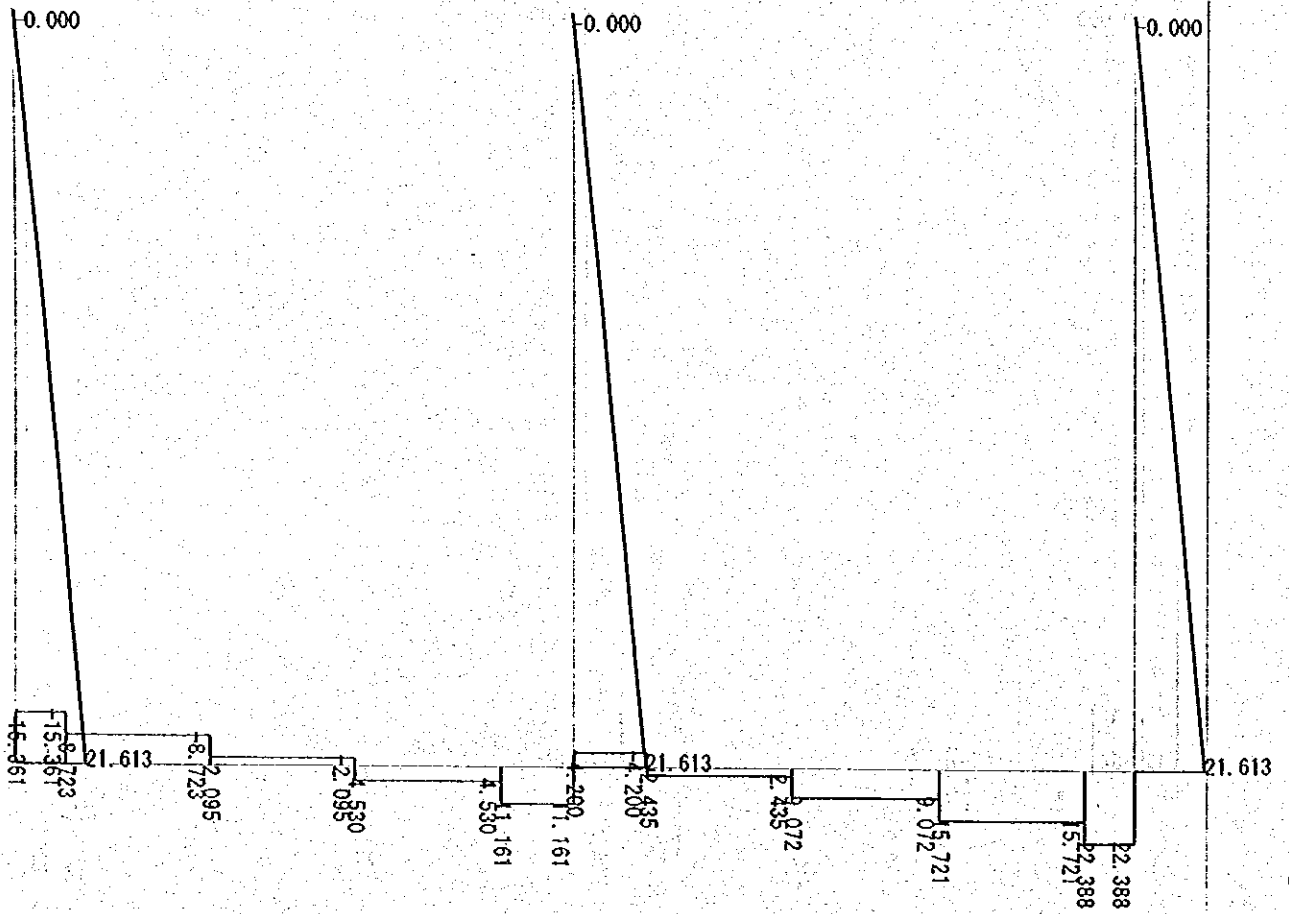
Case 2: B-B Seismic

Axial Stress

Scale

: 22.39tf

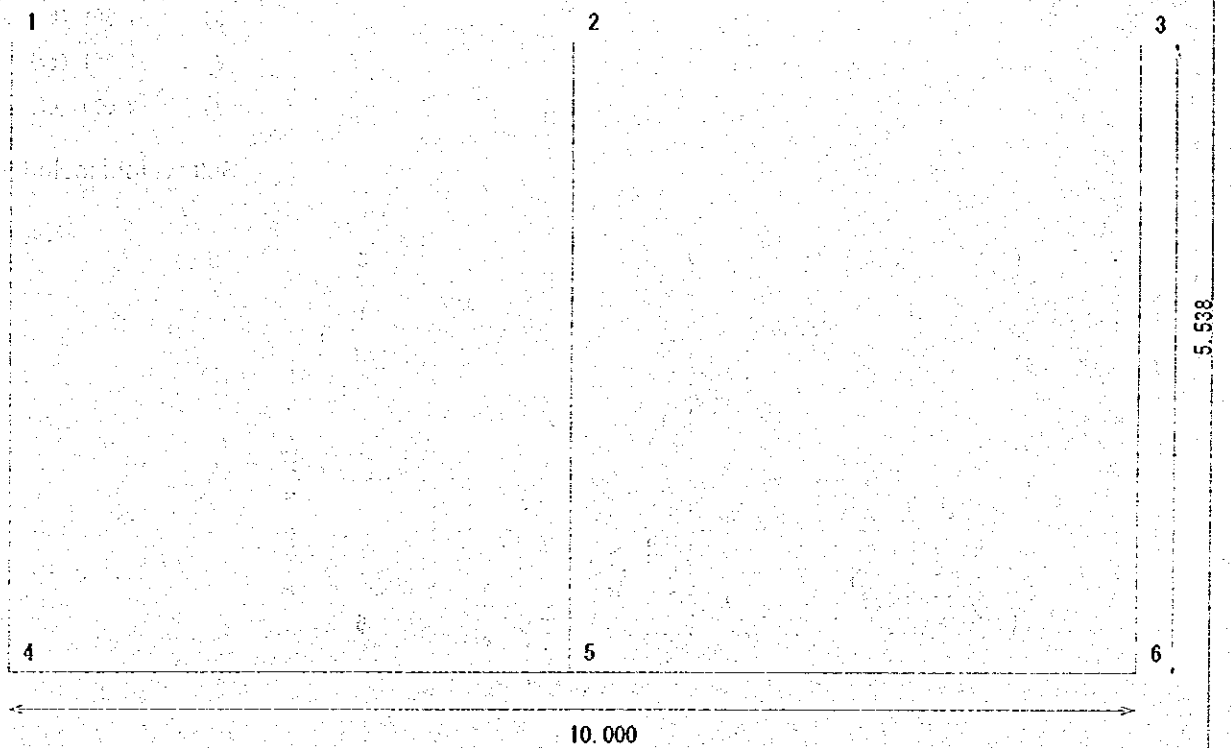
max. : 22.39 tf



Baru-pumping station (C-C)

縮尺 1/ 65

骨組図



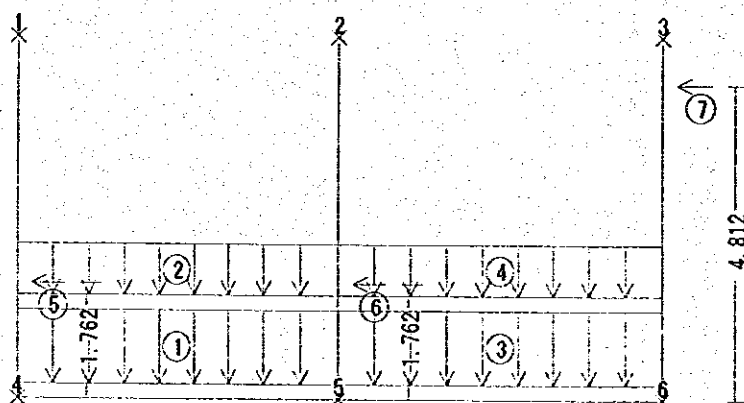
Baru-pumping station (C-C)

Case 1 : C-C Normal

Load

①	3.900 (tf/m)
	3.900 (tf/m)
②	2.695 (tf/m)
	2.695 (tf/m)
③	3.900 (tf/m)
	3.900 (tf/m)
④	2.695 (tf/m)
	2.695 (tf/m)
⑤	-1.361 (tf)
⑥	-1.361 (tf)
⑦	-2.009 (tf)

Self-weight included



Case 1: C-C Normal

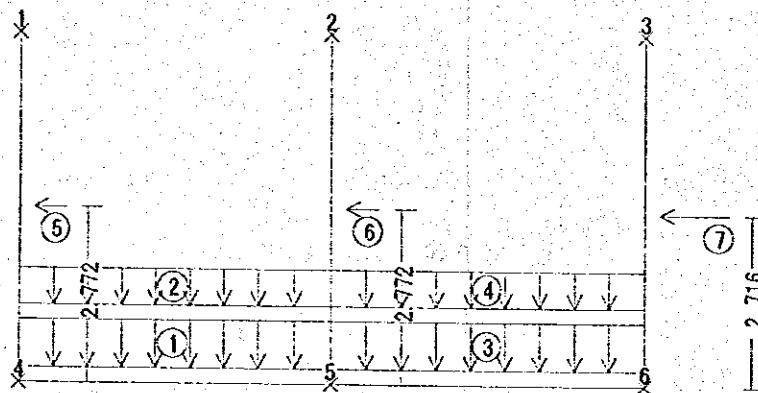
Baru-pumping station (C-C)

Case 2 : C-C Seismic

Load

①	3.900 (tf/m)
	3.900 (tf/m)
②	2.917 (tf/m)
	2.917 (tf/m)
③	3.900 (tf/m)
	3.900 (tf/m)
④	2.917 (tf/m)
	2.917 (tf/m)
⑤	-1.659 (tf)
⑥	-1.659 (tf)
⑦	-5.961 (tf)

Self-weight included

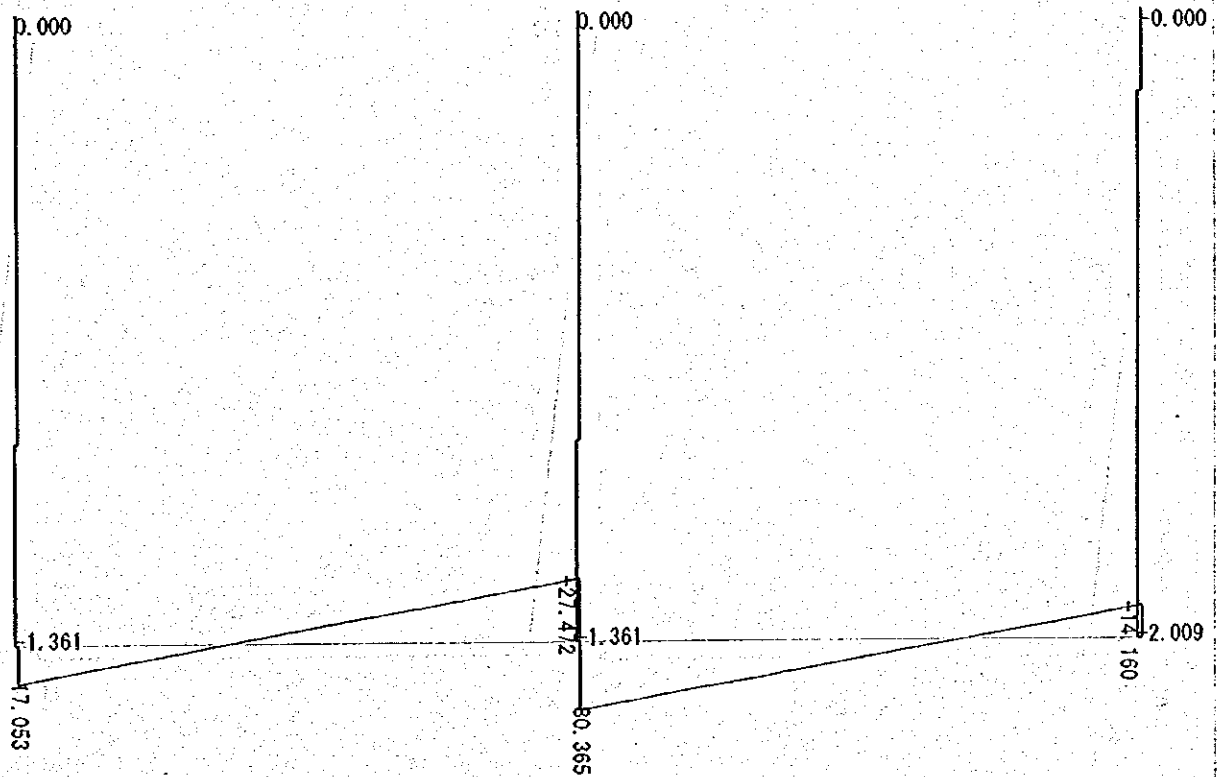


Baru-pumping station (C-C)

Case 1: C-C Normal

Shear Stress

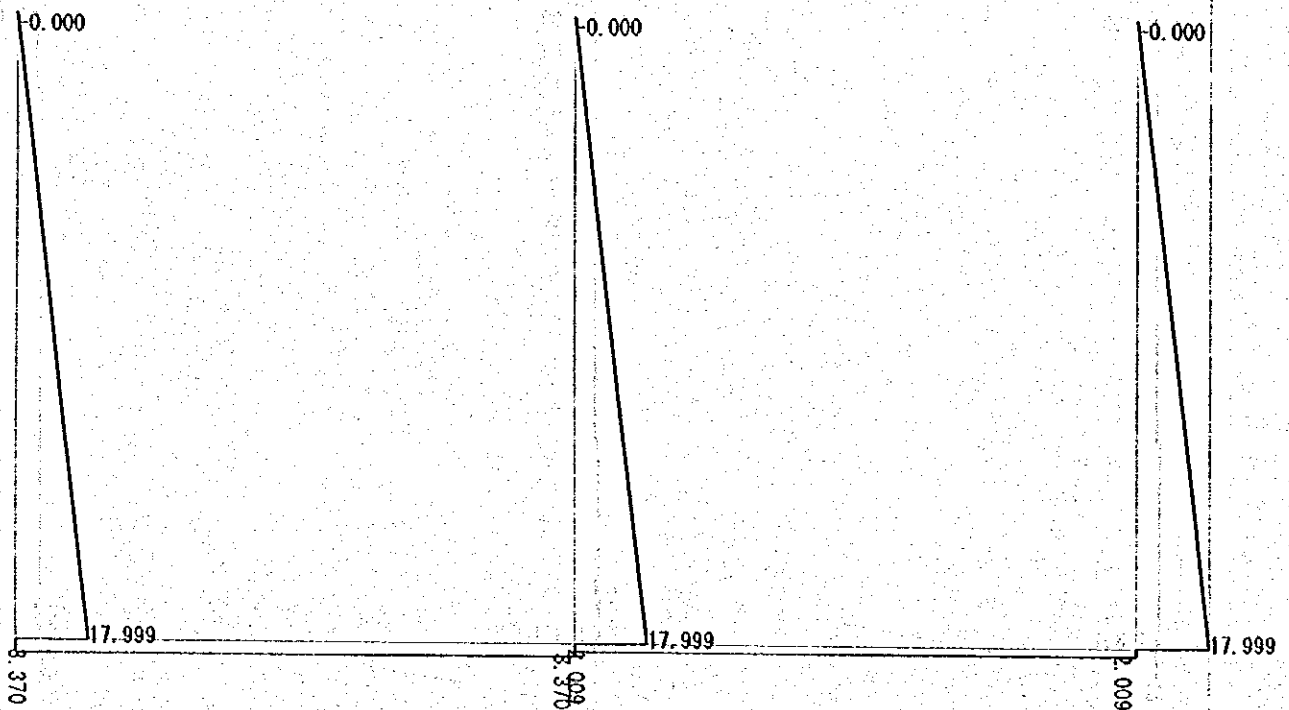
Scale : 32.80tf max. : 30.36 tf



Baru-pumping station (C-C)


Case 1: C-C Normal

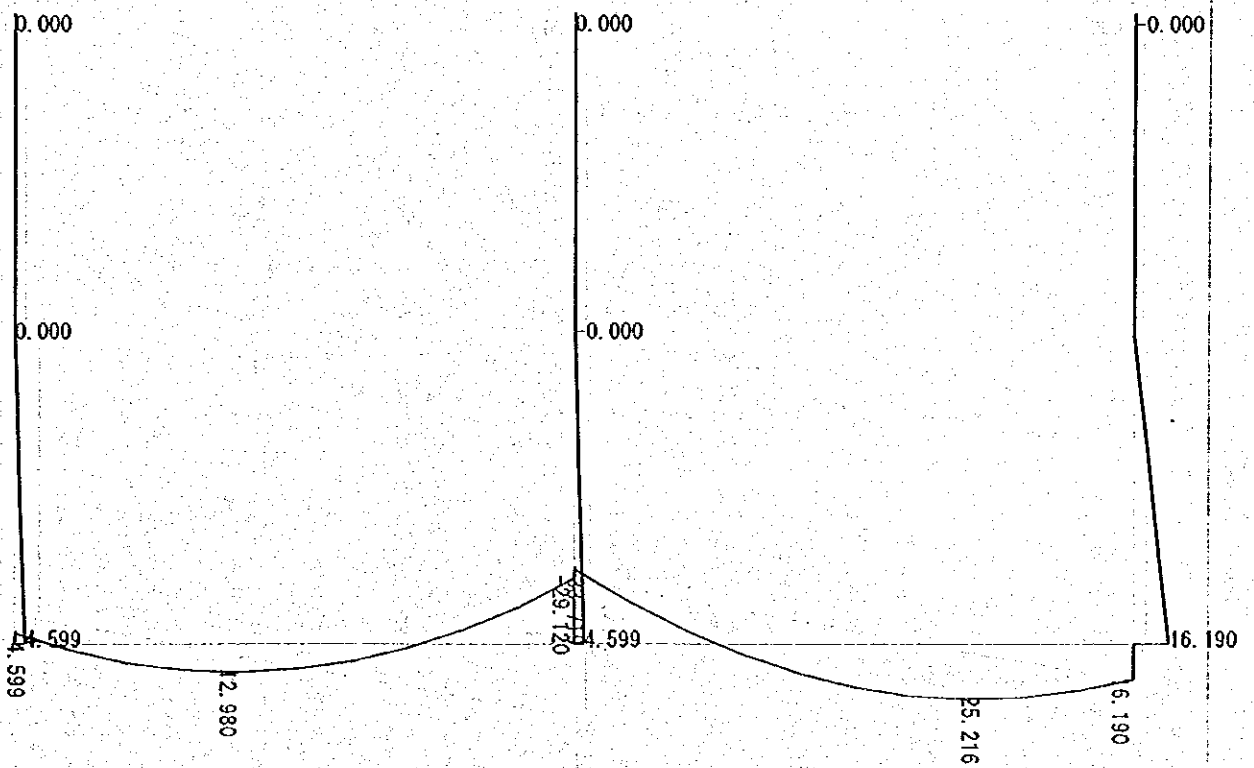
Axial Stress Scale |——| : 18.00tf max. : 18.00 tf



Baru-pumping station (C-C)

Case 2: C-C Seismic

Bending Moment Scale  : 33.72tf·m max. : -33.72 tf·m

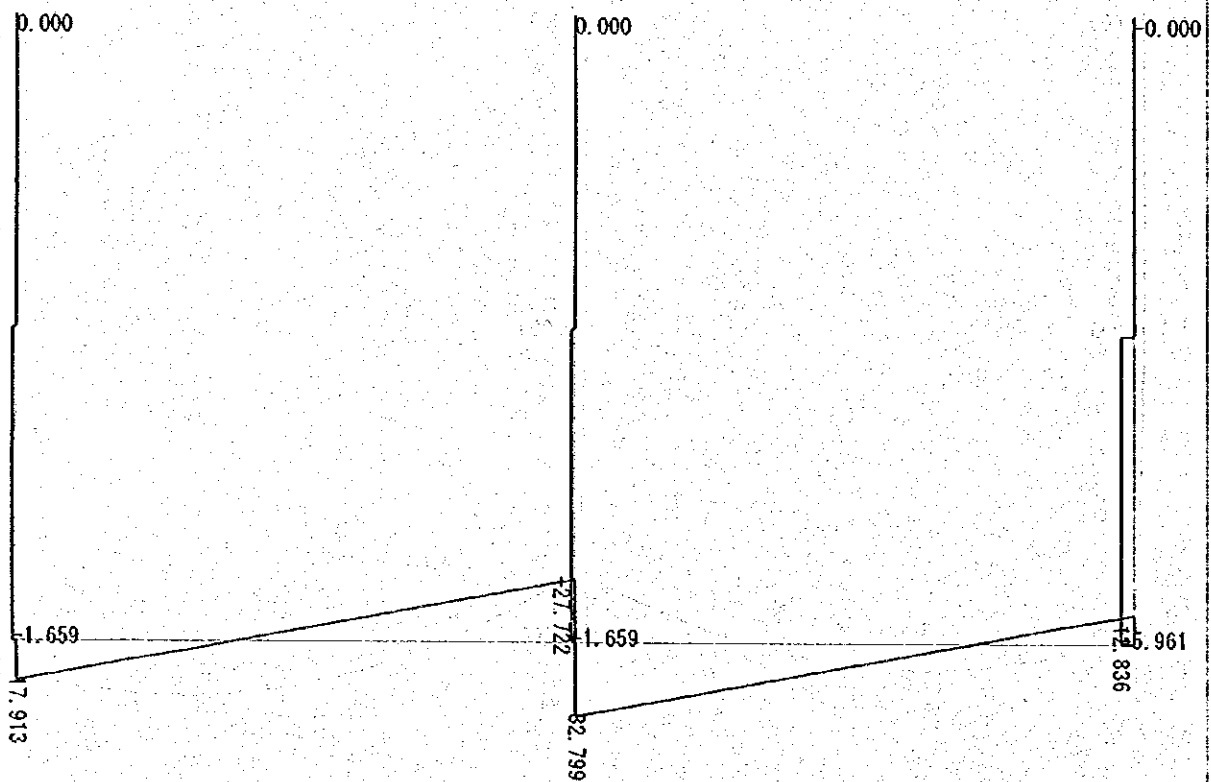


Baru-pumping station (C-C)

Case 2: C-C Seismic

Shear Stress

Scale $\frac{1}{4}$: 32.80tf max. : 32.80 tf



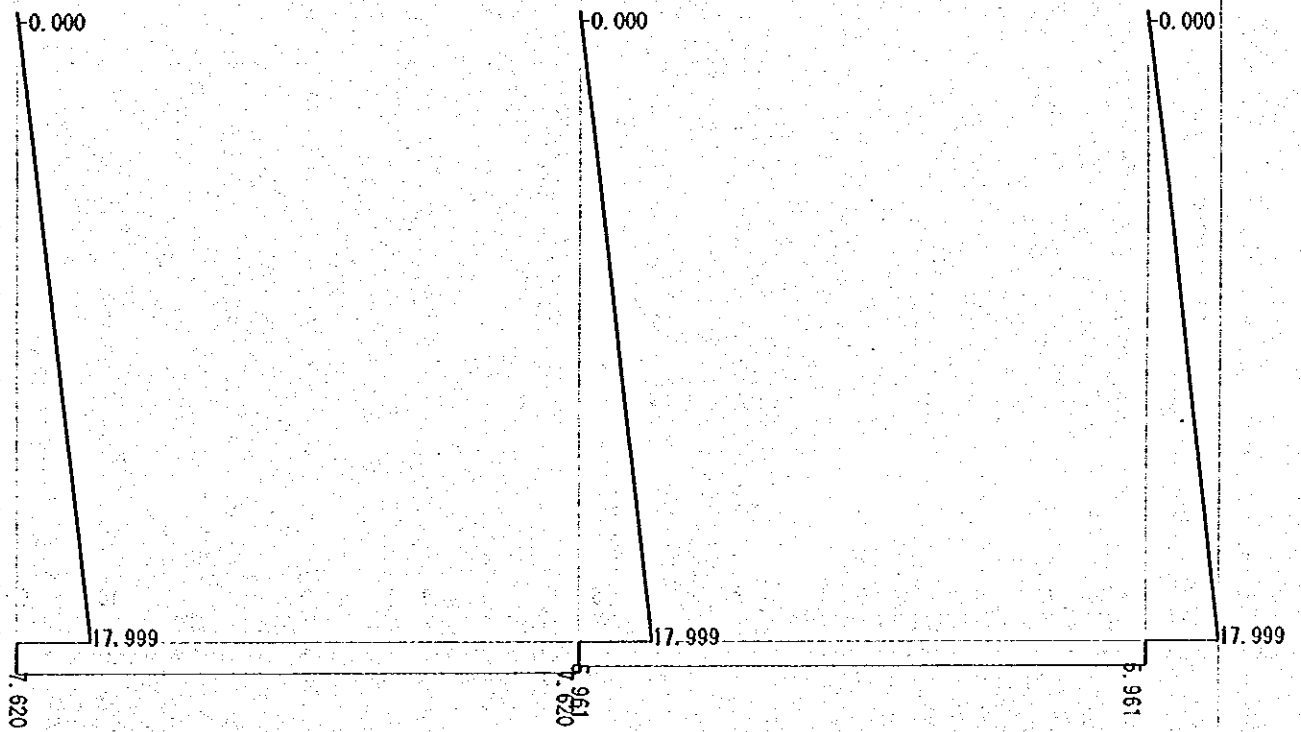
Baru-pumping station (C-C)

Case 2: C-C Seismic

Axial Stress

Scale | | : 18.00tf

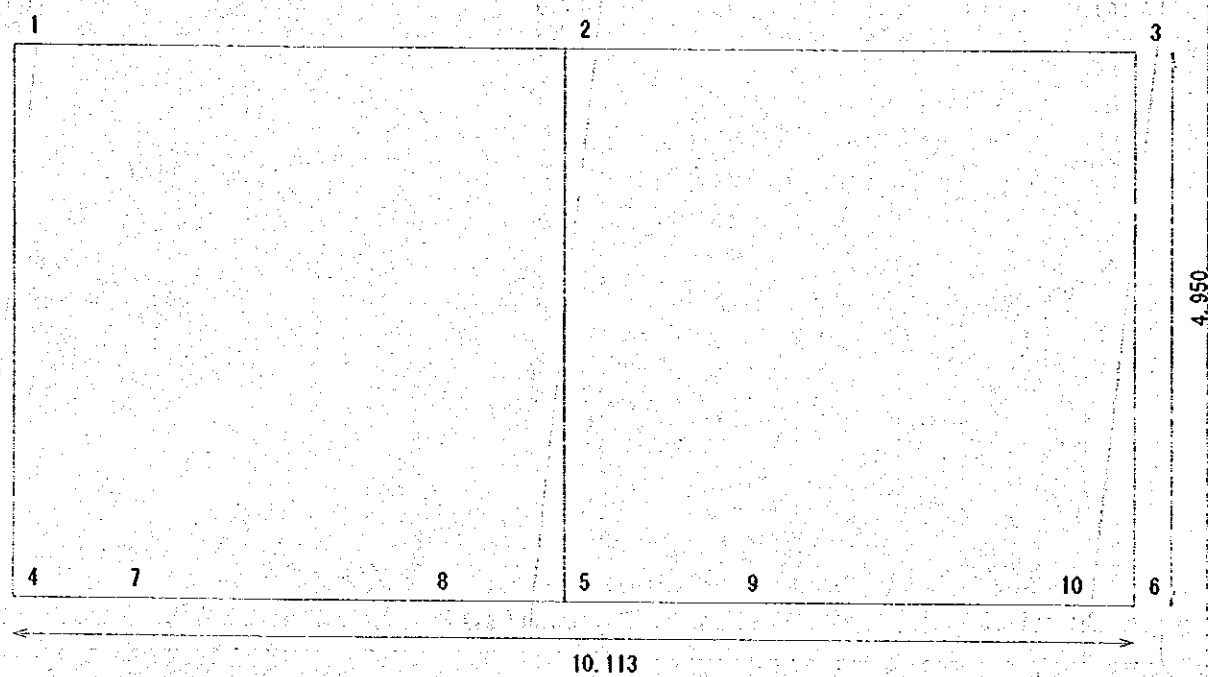
max. : 18.00 tf



Baru-pumping station (D-D)

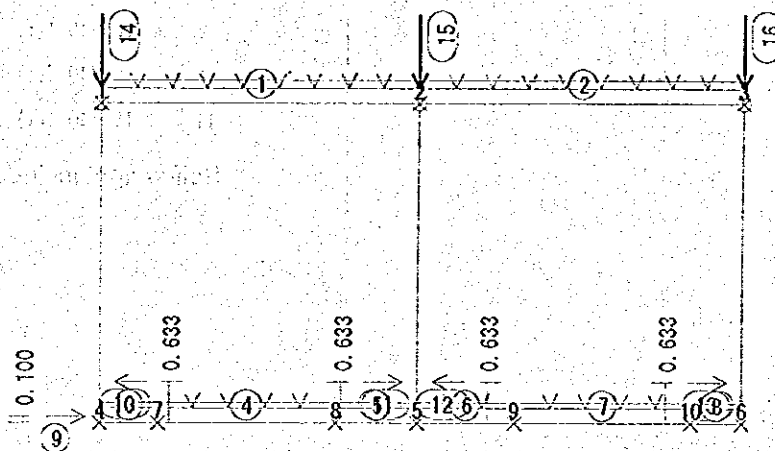
縮尺 1/ 66

骨組図



Baru-pumping station (D-D)

Case 1 : D-D Normal w

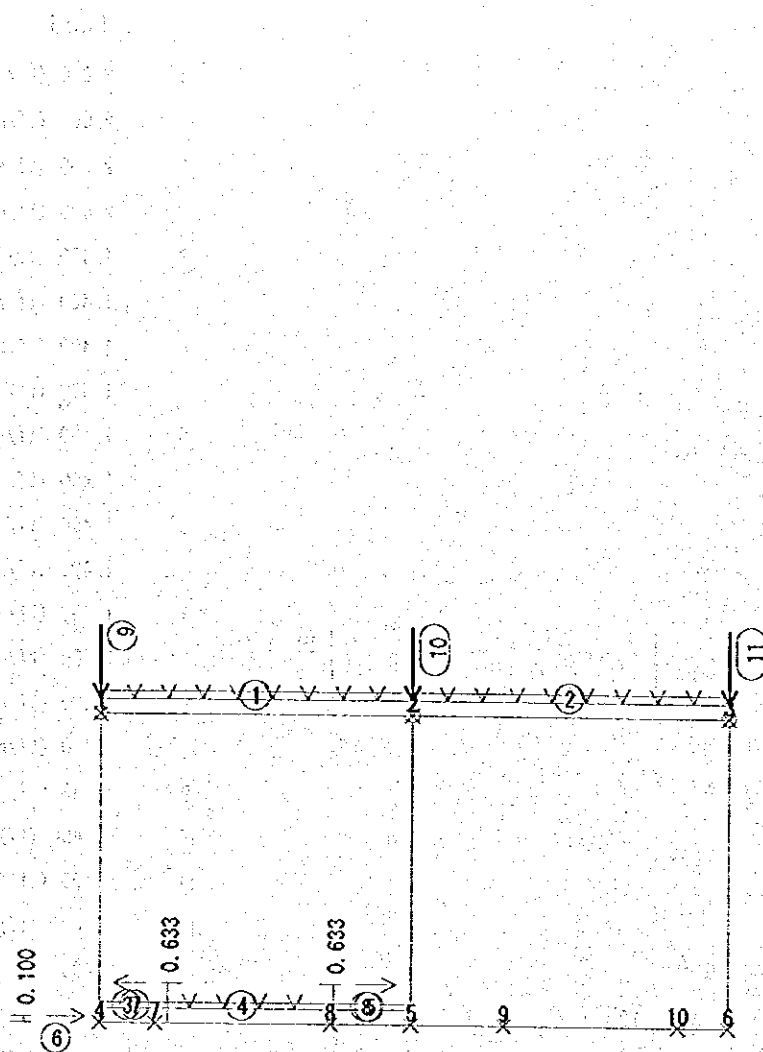


Load

①	2.000 (tf/m)
②	2.000 (tf/m)
③	2.000 (tf/m)
④	1.400 (tf/m)
⑤	1.400 (tf/m)
⑥	1.400 (tf/m)
⑦	1.400 (tf/m)
⑧	1.400 (tf/m)
⑨	1.400 (tf/m)
⑩	1.400 (tf/m)
⑪	1.400 (tf/m)
⑫	1.400 (tf/m)
⑬	1.400 (tf/m)
⑭	1.400 (tf/m)
⑮	1.400 (tf/m)
⑯	1.400 (tf/m)
⑰	1.400 (tf/m)
⑱	1.400 (tf/m)
⑲	1.400 (tf/m)
⑳	1.400 (tf/m)
㉑	1.400 (tf/m)
㉒	1.400 (tf/m)
㉓	1.400 (tf/m)
㉔	1.400 (tf/m)
㉕	1.400 (tf/m)
㉖	1.400 (tf/m)
㉗	1.400 (tf/m)
㉘	1.400 (tf/m)
㉙	1.400 (tf/m)
㉚	1.400 (tf/m)
㉛	1.400 (tf/m)
㉜	1.400 (tf/m)
㉝	1.400 (tf/m)
㉞	1.400 (tf/m)
㉟	1.400 (tf/m)
㊱	1.400 (tf/m)
㊲	1.400 (tf/m)
㊳	1.400 (tf/m)
㊴	1.400 (tf/m)
㊵	1.400 (tf/m)
㊶	1.400 (tf/m)
㊷	1.400 (tf/m)
㊸	1.400 (tf/m)
㊹	1.400 (tf/m)
㊺	1.400 (tf/m)
㊻	1.400 (tf/m)
㊼	1.400 (tf/m)
㊽	1.400 (tf/m)
㊾	1.400 (tf/m)
㊿	1.400 (tf/m)
1	1.540 (tf)
2	-0.490 (tf)
3	0.490 (tf)
4	-0.490 (tf)
5	0.490 (tf)
6	-0.490 (tf)
7	0.490 (tf)
8	-0.490 (tf)
9	0.490 (tf)
10	-0.490 (tf)
11	0.490 (tf)
12	-0.490 (tf)
13	0.490 (tf)
14	-0.490 (tf)
15	0.490 (tf)
16	-0.490 (tf)
17	0.490 (tf)
18	-0.490 (tf)
19	0.490 (tf)
20	-0.490 (tf)
21	0.490 (tf)
22	-0.490 (tf)
23	0.490 (tf)
24	-0.490 (tf)
25	0.490 (tf)
26	-0.490 (tf)
27	0.490 (tf)
28	-0.490 (tf)
29	0.490 (tf)
30	-0.490 (tf)
31	0.490 (tf)
32	-0.490 (tf)
33	0.490 (tf)
34	-0.490 (tf)
35	0.490 (tf)
36	-0.490 (tf)
37	0.490 (tf)
38	-0.490 (tf)
39	0.490 (tf)
40	-0.490 (tf)
41	0.490 (tf)
42	-0.490 (tf)
43	0.490 (tf)
44	-0.490 (tf)
45	0.490 (tf)
46	-0.490 (tf)
47	0.490 (tf)
48	-0.490 (tf)
49	0.490 (tf)
50	-0.490 (tf)
51	0.490 (tf)
52	-0.490 (tf)
53	0.490 (tf)
54	-0.490 (tf)
55	0.490 (tf)
56	-0.490 (tf)
57	0.490 (tf)
58	-0.490 (tf)
59	0.490 (tf)
60	-0.490 (tf)
61	0.490 (tf)
62	-0.490 (tf)
63	0.490 (tf)
64	-0.490 (tf)
65	0.490 (tf)
66	-0.490 (tf)
67	0.490 (tf)
68	-0.490 (tf)
69	0.490 (tf)
70	-0.490 (tf)
71	0.490 (tf)
72	-0.490 (tf)
73	0.490 (tf)
74	-0.490 (tf)
75	0.490 (tf)
76	-0.490 (tf)
77	0.490 (tf)
78	-0.490 (tf)
79	0.490 (tf)
80	-0.490 (tf)
81	0.490 (tf)
82	-0.490 (tf)
83	0.490 (tf)
84	-0.490 (tf)
85	0.490 (tf)
86	-0.490 (tf)
87	0.490 (tf)
88	-0.490 (tf)
89	0.490 (tf)
90	-0.490 (tf)
91	0.490 (tf)
92	-0.490 (tf)
93	0.490 (tf)
94	-0.490 (tf)
95	0.490 (tf)
96	-0.490 (tf)
97	0.490 (tf)
98	-0.490 (tf)
99	0.490 (tf)
100	-0.490 (tf)
101	0.490 (tf)
102	-0.490 (tf)
103	0.490 (tf)
104	-0.490 (tf)
105	0.490 (tf)
106	-0.490 (tf)
107	0.490 (tf)
108	-0.490 (tf)
109	0.490 (tf)
110	-0.490 (tf)
111	0.490 (tf)
112	-0.490 (tf)
113	0.490 (tf)
114	-0.490 (tf)
115	0.490 (tf)
116	-0.490 (tf)
117	0.490 (tf)
118	-0.490 (tf)
119	0.490 (tf)
120	-0.490 (tf)
121	0.490 (tf)
122	-0.490 (tf)
123	0.490 (tf)
124	-0.490 (tf)
125	0.490 (tf)
126	-0.490 (tf)
127	0.490 (tf)
128	-0.490 (tf)
129	0.490 (tf)
130	-0.490 (tf)
131	0.490 (tf)
132	-0.490 (tf)
133	0.490 (tf)
134	-0.490 (tf)
135	0.490 (tf)
136	-0.490 (tf)
137	0.490 (tf)
138	-0.490 (tf)
139	0.490 (tf)
140	-0.490 (tf)
141	0.490 (tf)
142	-0.490 (tf)
143	0.490 (tf)
144	-0.490 (tf)
145	0.490 (tf)
146	-0.490 (tf)
147	0.490 (tf)
148	-0.490 (tf)
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409	0.490 (tf)
410	-

Baru-pumping station (D-D)

Case 2 : D-D Normal lw

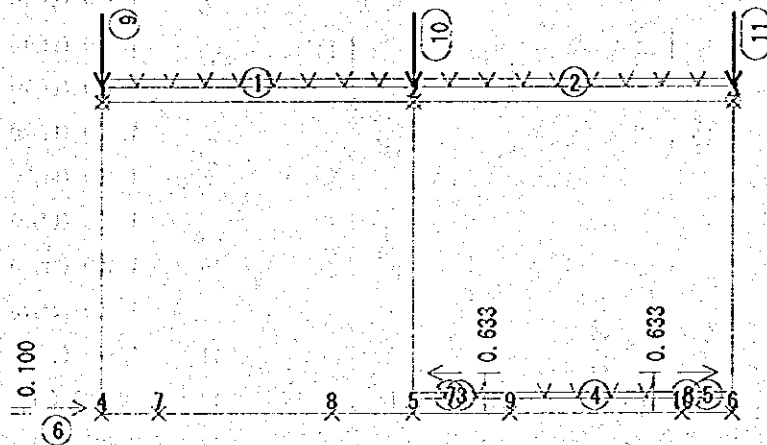


	Load
①	2.000 (tf/m)
	2.000 (tf/m)
②	2.000 (tf/m)
	2.000 (tf/m)
③	1.400 (tf/m)
	1.400 (tf/m)
④	1.400 (tf/m)
	1.400 (tf/m)
⑤	1.400 (tf/m)
	1.400 (tf/m)
⑥	1.540 (tf)
⑦	-0.490 (tf)
⑧	0.490 (tf)
⑨	18.340 (tf)
⑩	18.340 (tf)
⑪	18.340 (tf)

Self-weight included

Baru-pumping station (D-D)

Case 3 : 0-0 Normal rw

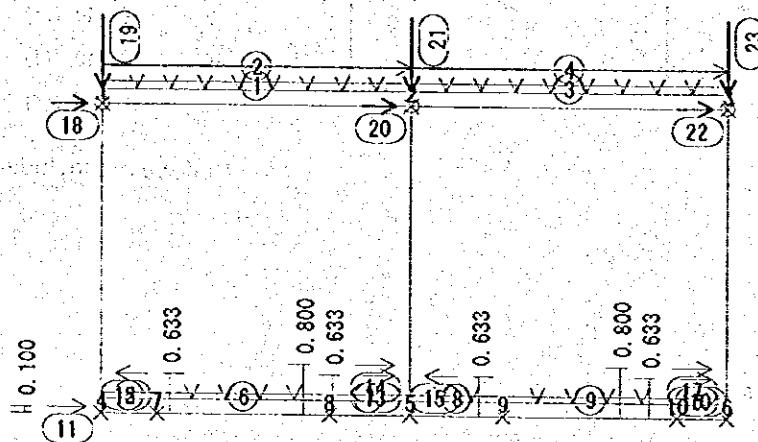


	Load
①	2.000 (tf/m) 2.000 (tf/m)
②	2.000 (tf/m) 2.000 (tf/m)
③	1.400 (tf/m) 1.400 (tf/m)
④	1.400 (tf/m) 1.400 (tf/m)
⑤	1.400 (tf/m) 1.400 (tf/m)
⑥	1.540 (tf)
⑦	-0.490 (tf)
⑧	0.490 (tf)
⑨	18.340 (tf)
⑩	18.340 (tf)
⑪	18.340 (tf)

Self-weight included

Baru-pumping station (D-D)

Case 4 : D-D seismic w



Load	
①	2.000 (tf/m)
	2.000 (tf/m)
②	0.220 (tf/m)
	0.220 (tf/m)
③	2.000 (tf/m)
	2.000 (tf/m)
④	0.220 (tf/m)
	0.220 (tf/m)
⑤	1.400 (tf/m)
	1.400 (tf/m)
⑥	1.400 (tf/m)
	1.400 (tf/m)
⑦	1.400 (tf/m)
	1.400 (tf/m)
⑧	1.400 (tf/m)
	1.400 (tf/m)
⑨	1.400 (tf/m)
	1.400 (tf/m)
⑩	1.400 (tf/m)
	1.400 (tf/m)
⑪	1.820 (tf)
⑫	-0.490 (tf)
⑬	0.490 (tf)
⑭	0.060 (tf)
⑮	-0.490 (tf)
⑯	0.490 (tf)
⑰	0.060 (tf)
⑱	2.017 (tf)
⑲	18.340 (tf)
⑳	2.017 (tf)
㉑	18.340 (tf)
㉒	2.017 (tf)
㉓	18.340 (tf)

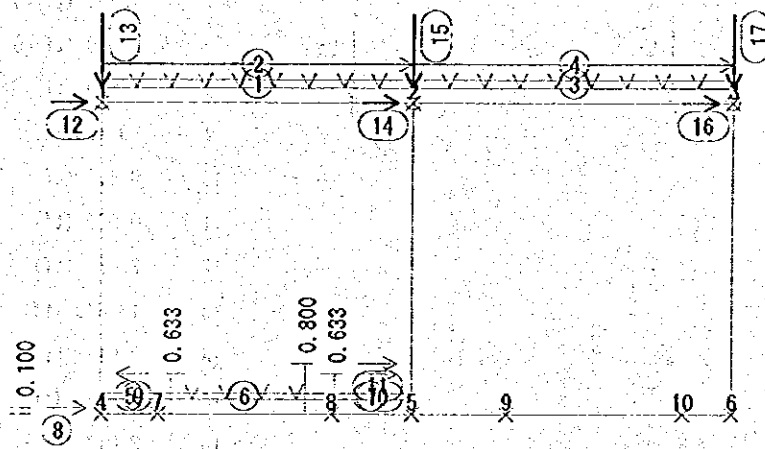
Self-weight included

Seismic Force

KH = 0.11

Baru-pumping station (D-D)

Case 5 : D-D seismic Iw



Load

①	2.000 (tf/m)
②	2.000 (tf/m)
③	0.220 (tf/m)
④	0.220 (tf/m)
⑤	2.000 (tf/m)
⑥	2.000 (tf/m)
⑦	0.220 (tf/m)
⑧	0.220 (tf/m)
⑨	1.400 (tf/m)
⑩	1.400 (tf/m)
⑪	1.400 (tf/m)
⑫	1.400 (tf/m)
⑬	1.400 (tf/m)
⑭	1.400 (tf/m)
⑮	1.820 (tf)
⑯	-0.490 (tf)
⑰	0.490 (tf)
⑱	0.060 (tf)
⑲	2.017 (tf)
⑳	18.340 (tf)
㉑	2.017 (tf)
㉒	18.340 (tf)
㉓	2.017 (tf)
㉔	18.340 (tf)

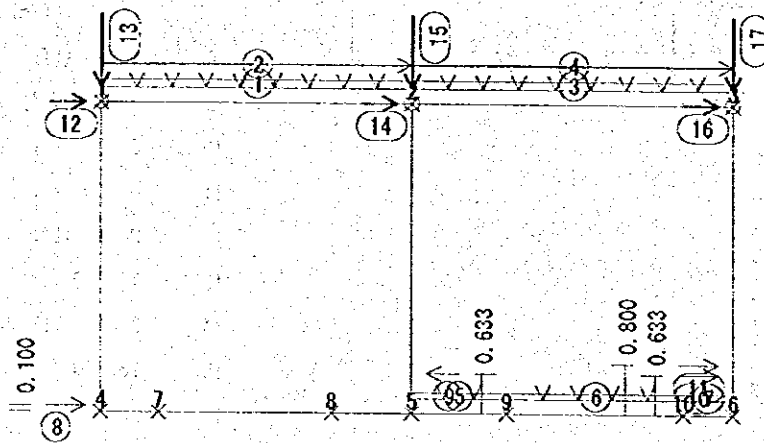
Self-weight included

Seismic Force

KH = 0.11

Baru-pumping station (D-D)

Case 6 : D-D seismic rw



Load	
①	2.000 (tf/m)
	2.000 (tf/m)
②	0.220 (tf/m)
	0.220 (tf/m)
③	2.000 (tf/m)
	2.000 (tf/m)
④	0.220 (tf/m)
	0.220 (tf/m)
⑤	1.400 (tf/m)
	1.400 (tf/m)
⑥	1.400 (tf/m)
	1.400 (tf/m)
⑦	1.400 (tf/m)
	1.400 (tf/m)
⑧	1.820 (tf)
⑨	-0.490 (tf)
⑩	0.490 (tf)
⑪	0.060 (tf)
⑫	2.017 (tf)
⑬	18.340 (tf)
⑭	2.017 (tf)
⑮	18.340 (tf)
⑯	2.017 (tf)
⑰	18.340 (tf)

Self-weight included

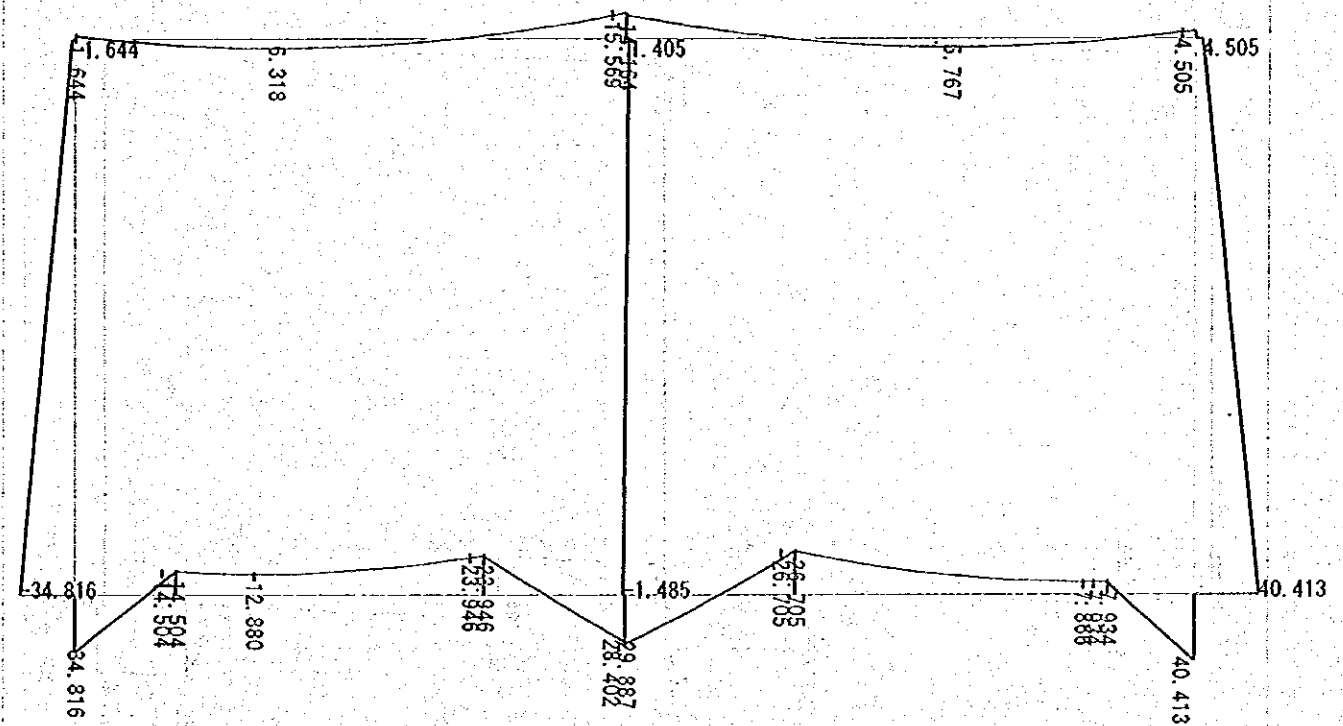
Seismic Force

KH = 0.11

Baru-pumping station (D-D)

Case 1: D-D Normal w

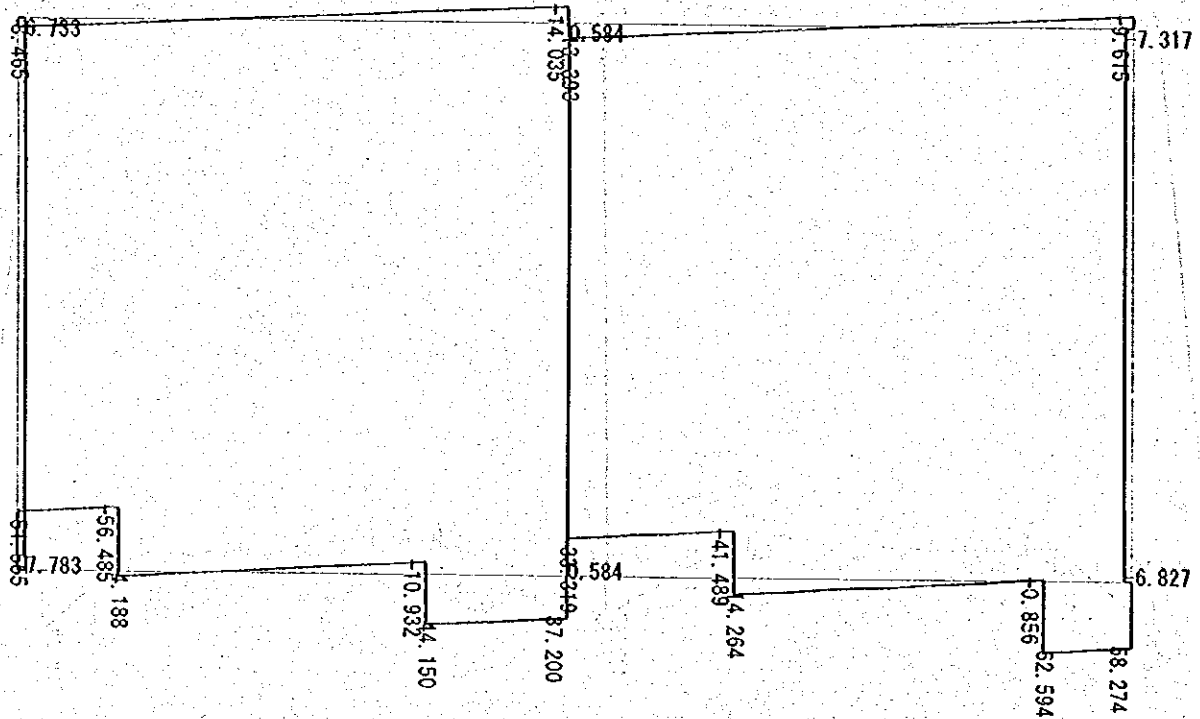
Bending Moment Scale : 45.76tf·m max. : 40.41 tf·m



Baru-pumping station (D-D)

Case 1: D-D Normal w

Shear Stress Scale : 65.09tf max. : 62.59 tf

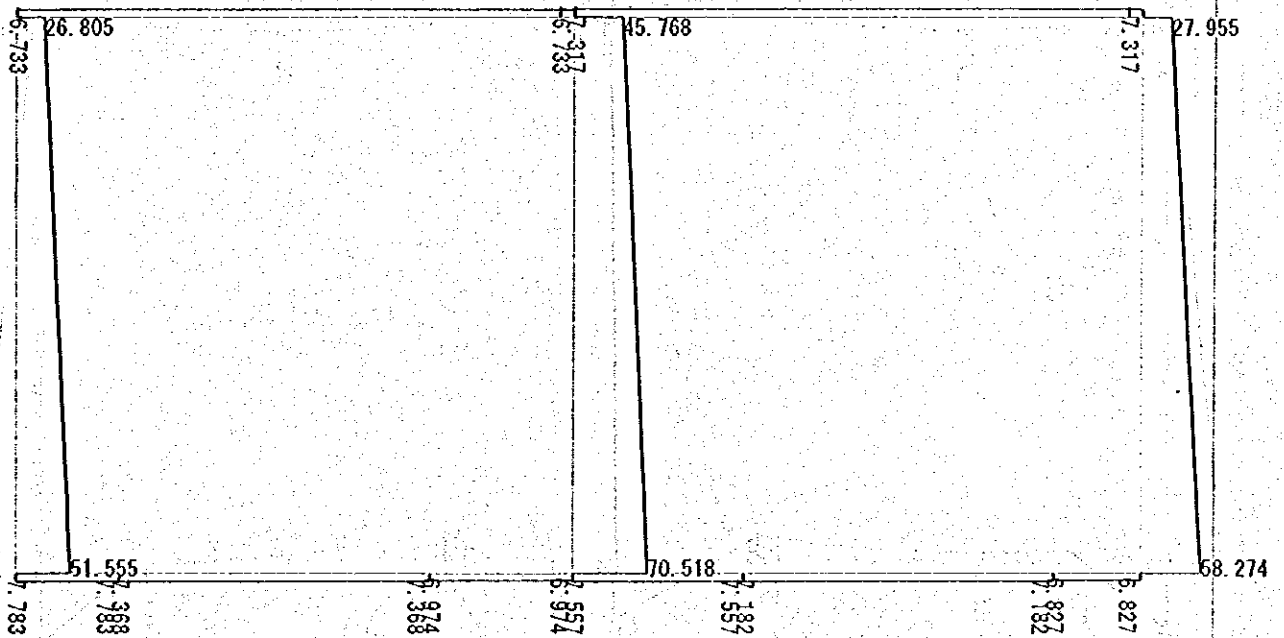


Baru-pumping station (D-D)

Case 1: D-D Normal w

Axial Stress

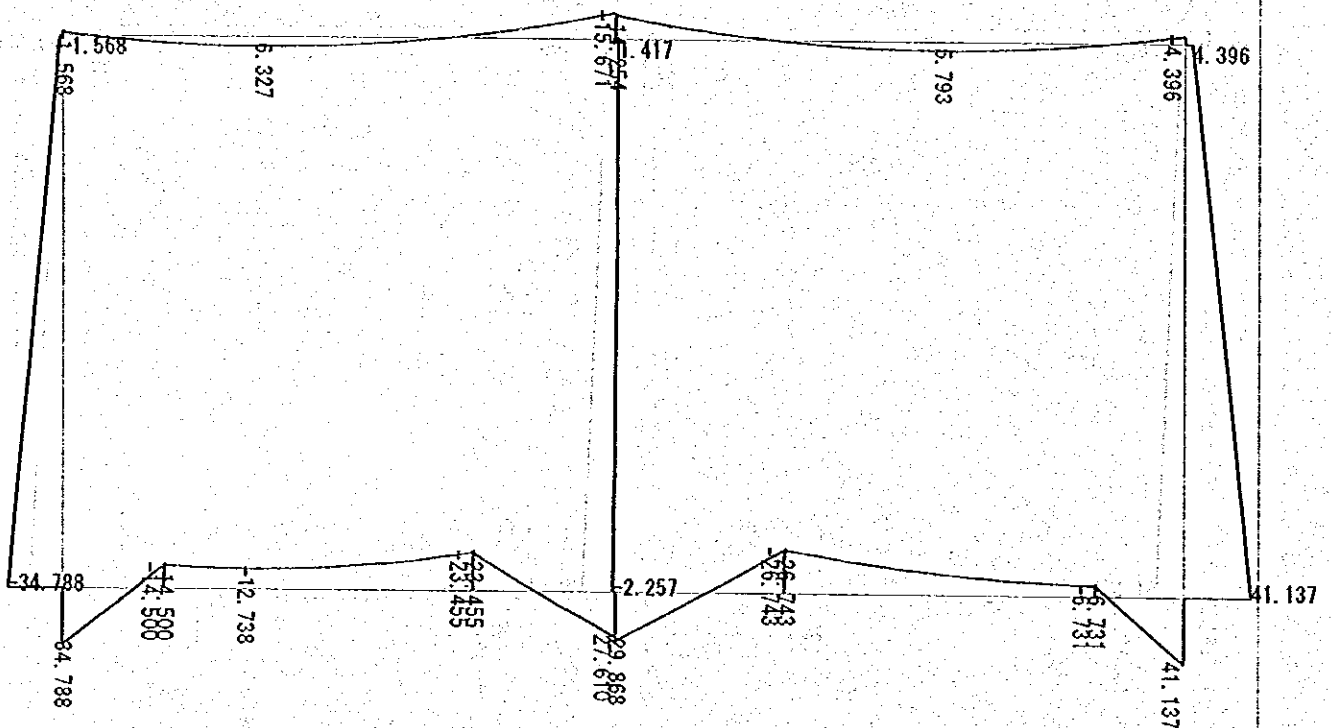
Scale : 70.59tf max. : 70.52 tf



Baru-pumping station (D-D)

Case 2: D-D Normal 1w

Bending Moment Scale : 45.76tf·m max. : 41.14 tf·m



Baru-pumping station (D-D)

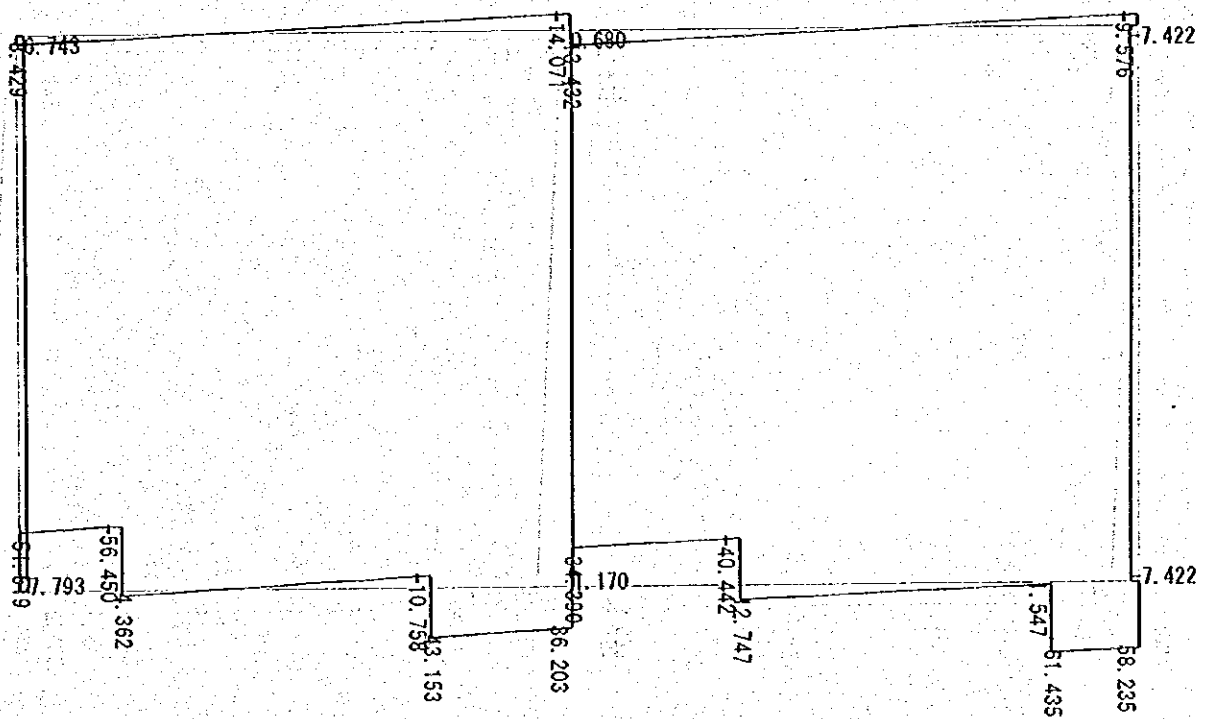
Case 2: D-D Normal lw

Shear Stress

Scale

: 65.09tf

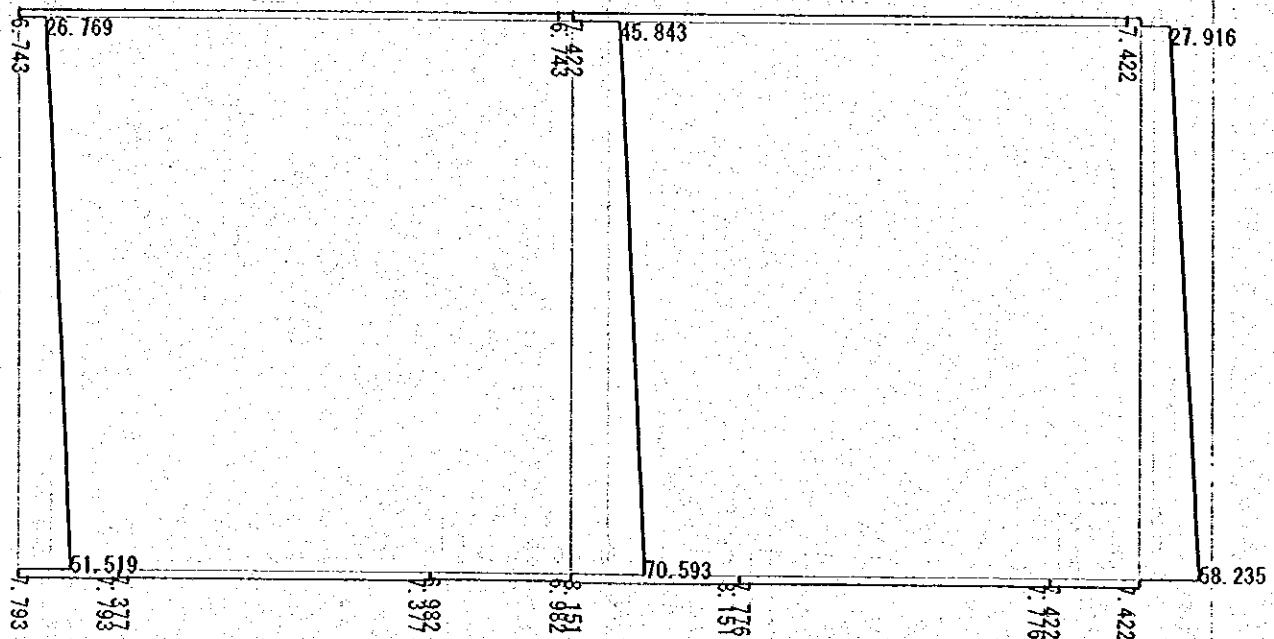
max. : 61.43 tf



Baru-pumping station (D-D)

Case 2: D-D Normal Iw

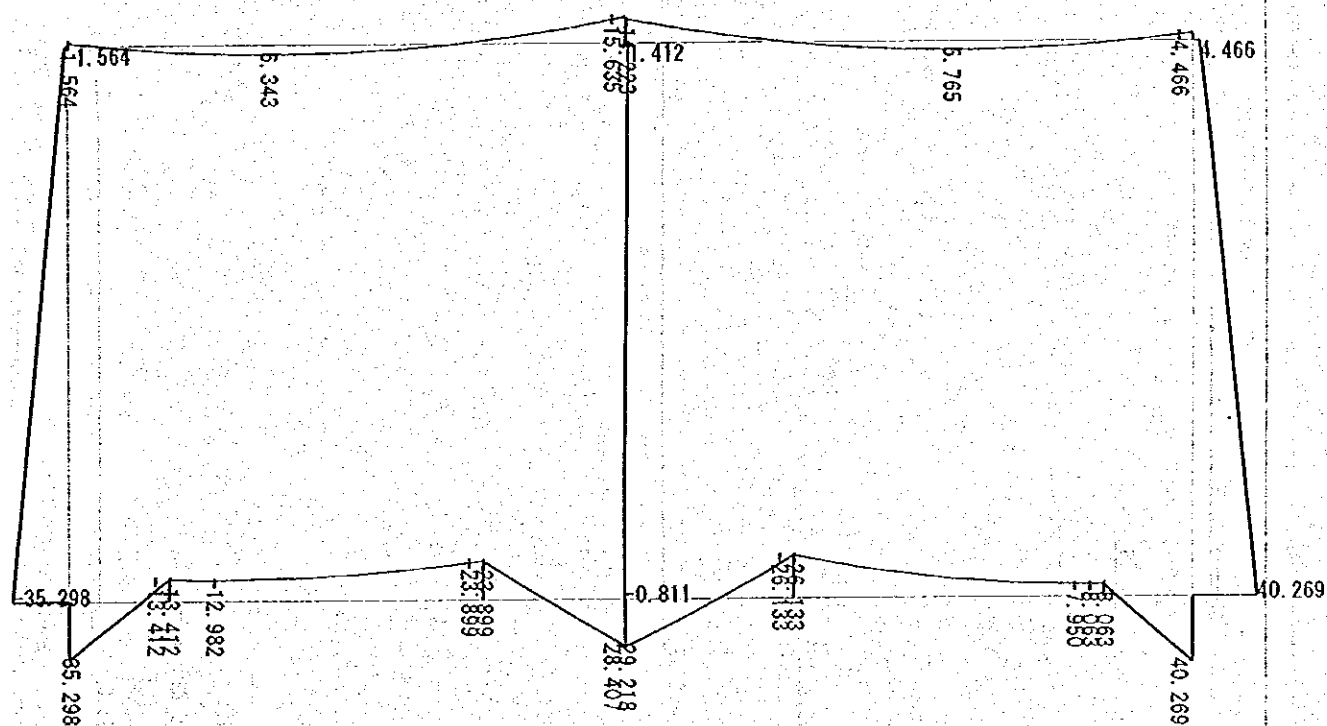
Axial Stress Scale : 70.59tf max. : 70.59 tf



Baru-pumping station (D-D)

Case 3: D-D Normal rw

Bending Moment Scale : 45.76tf·m max. : 40.27 tf·m



Baru-pumping station (D-D)

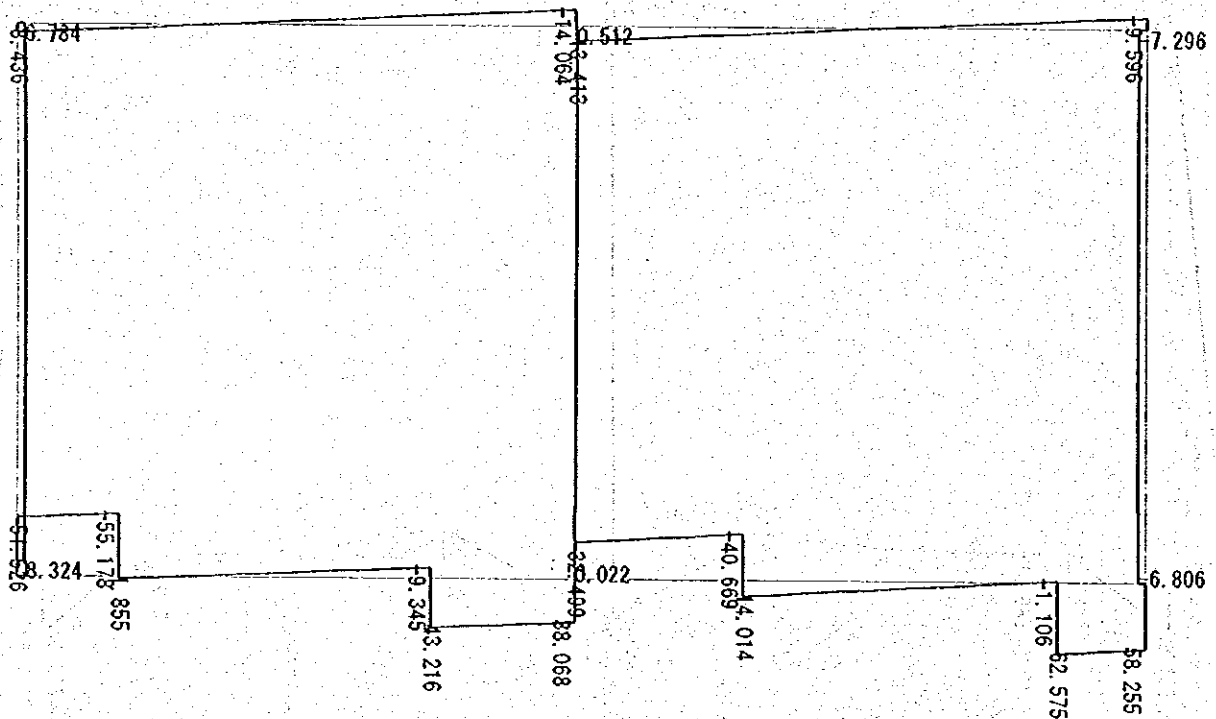
Case 3: D-D Normal rw

Shear Stress

Scale

: 65.09tf

max. : 62.57 tf



Baru-pumping station (D-D)

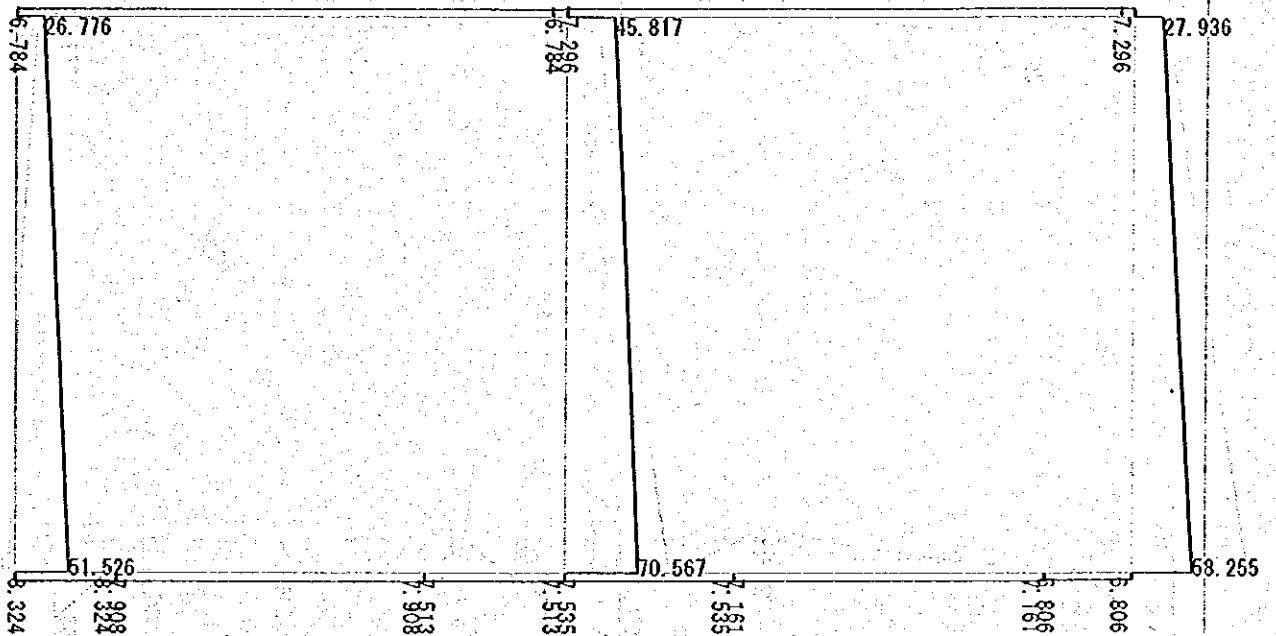
Case 3: D-D Normal rw

Axial Stress

Scale

— : 70.59tf

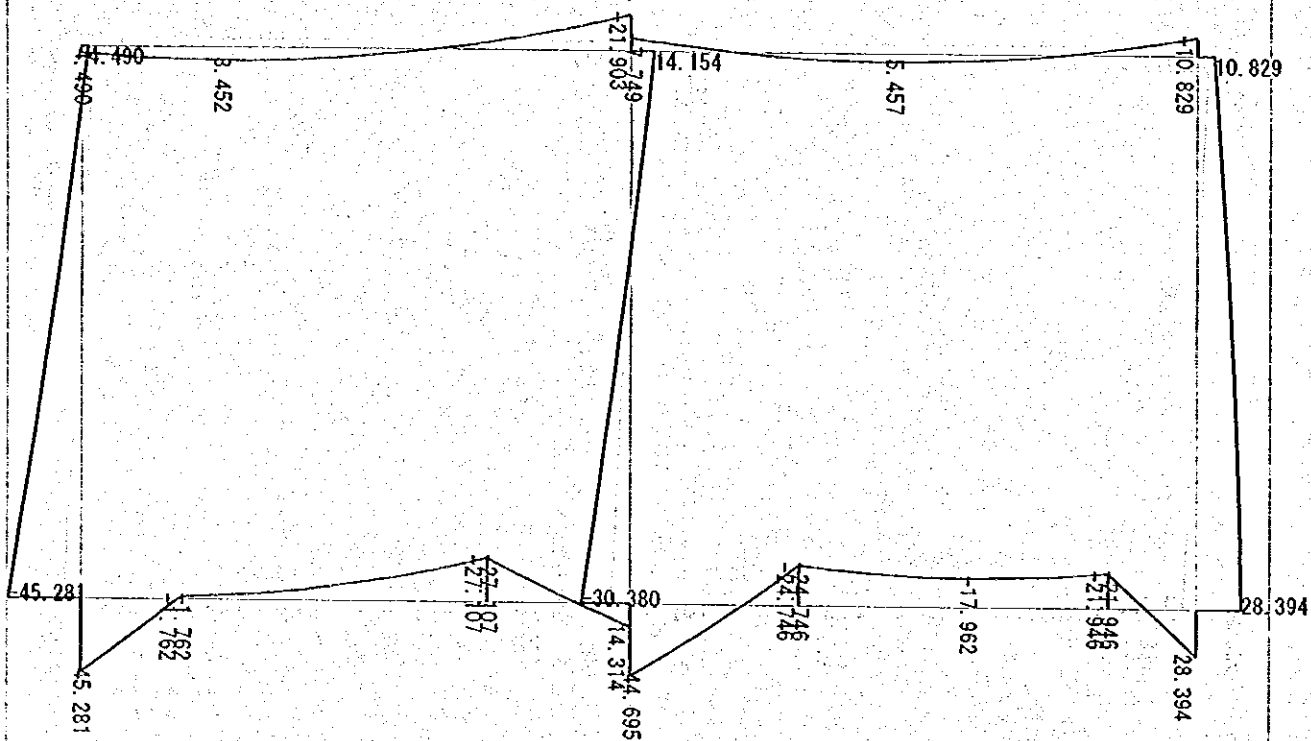
max. : 70.57 tf



Baru-pumping station (D-D)

Case 4: D-D seismic w

Bending Moment Scale : 45.76tf·m max. : -45.28 tf·m

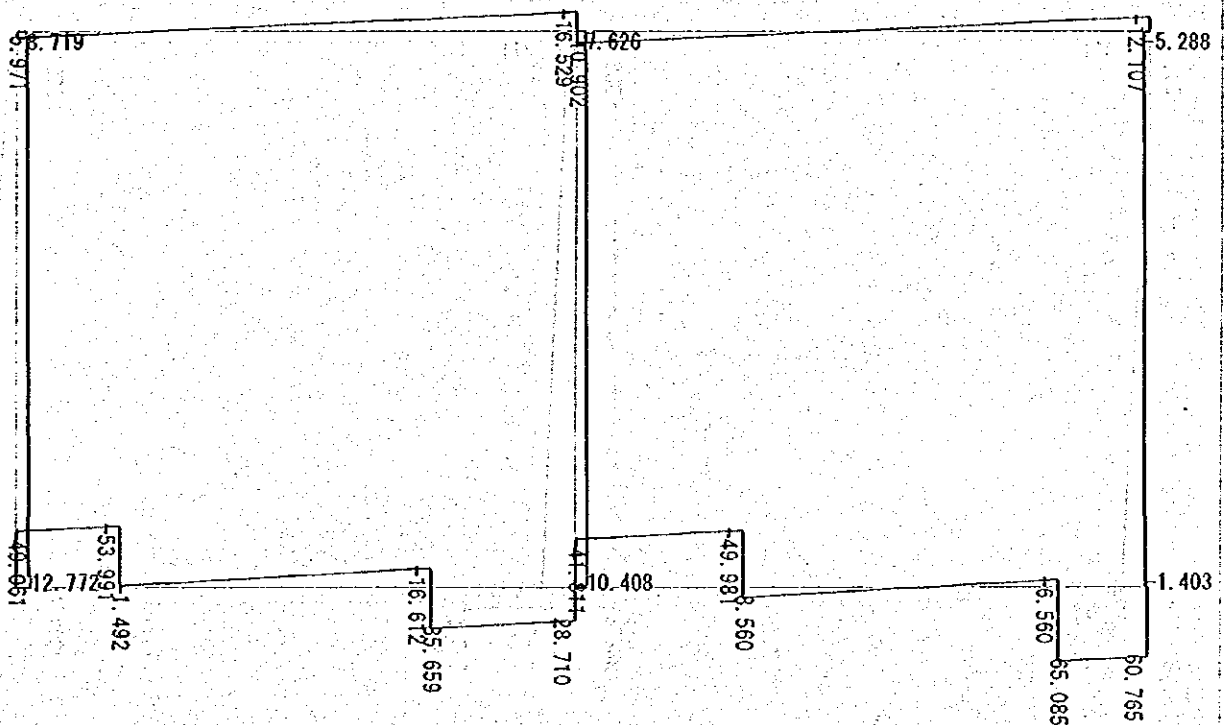


Baru-pumping station (D-D)

Case 4: D-D seismic w

Shear Stress

Scale : 65.09tf max. : 65.09 tf



Baru-pumping station (D-D)

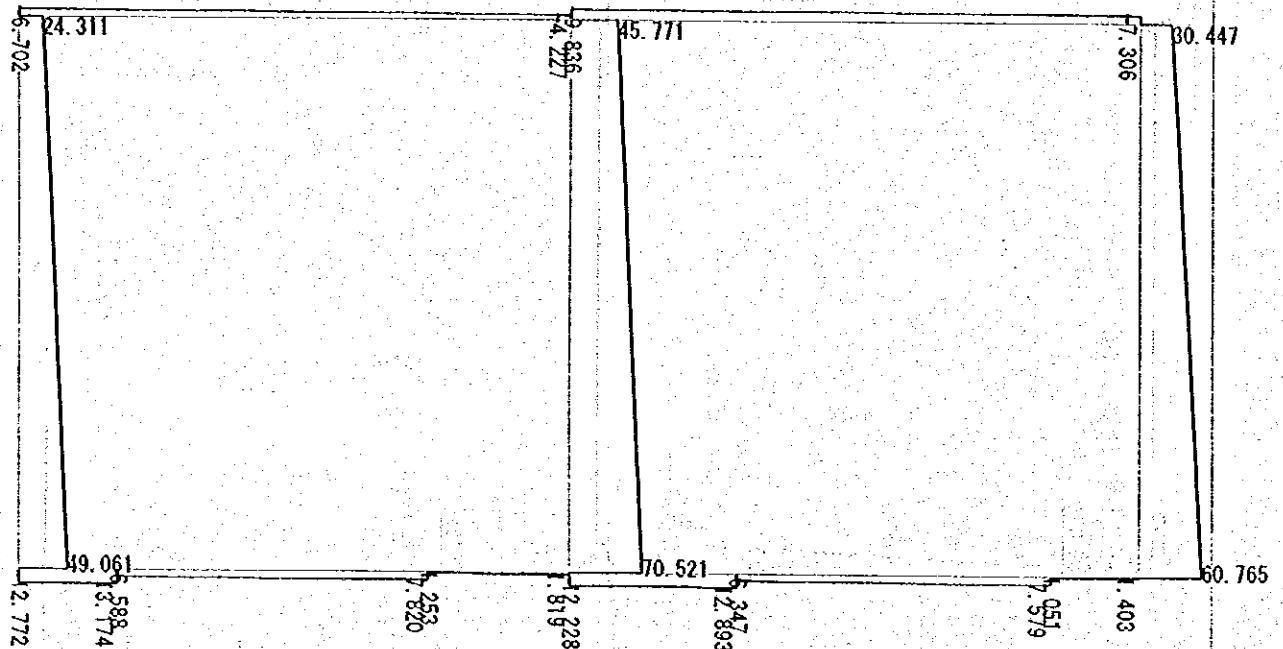
Case 4: D-D seismic w

Axial Stress

Scale

: 70.59tf

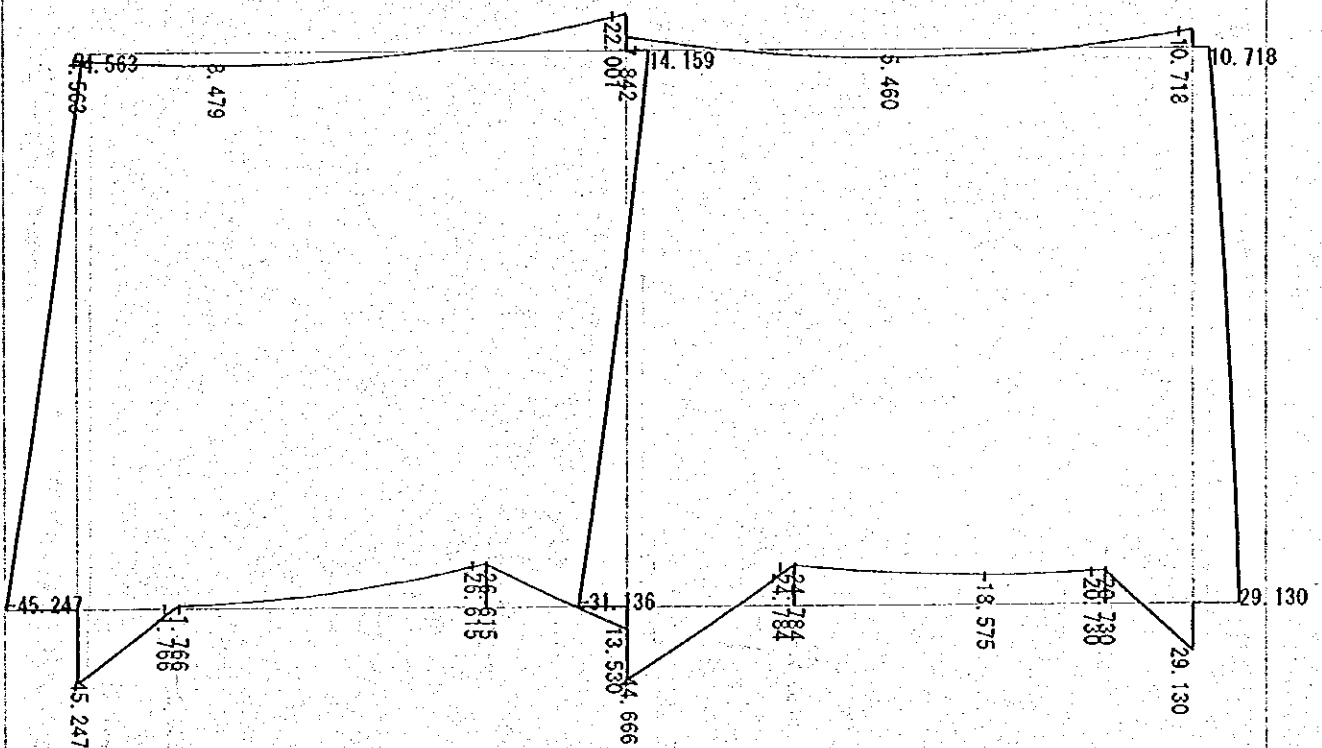
max. : 70.52 tf



Baru-pumping station (D-D)

Case 5: D-D seismic Iw

Bending Moment Scale $\text{---|} : 45.76 \text{ tf}\cdot\text{m}$ max. : $-45.25 \text{ tf}\cdot\text{m}$



Baru-pumping station (D-D)

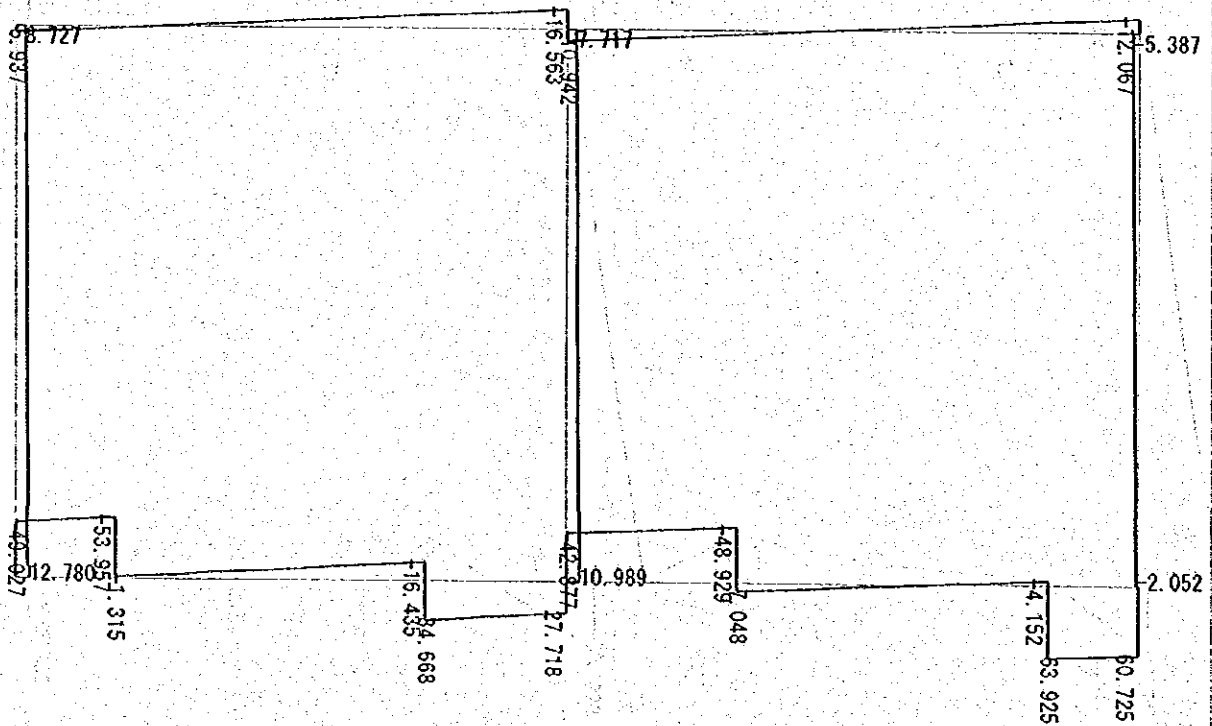
Case 5: D-D seismic Iw

Shear Stress

Scale

: 65.09tf

max. : 63.93 tf



Baru-pumping station (D-D)

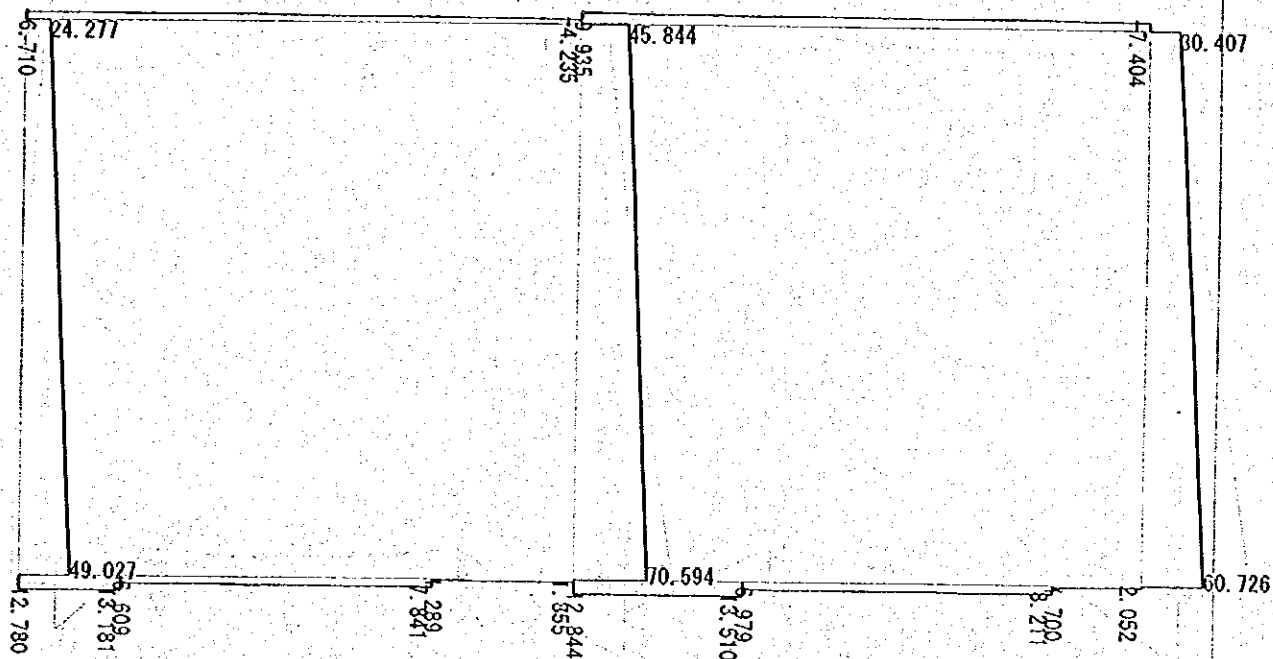
Case 5: D-D seismic lw

Axial Stress

Scale

: 70.59tf

max. : 70.59 tf



Baru-pumping station (D-D)

Case 6: D-D seismic rw

Bending Moment Scale : 45.76tf·m max. : -45.76 tf·m

