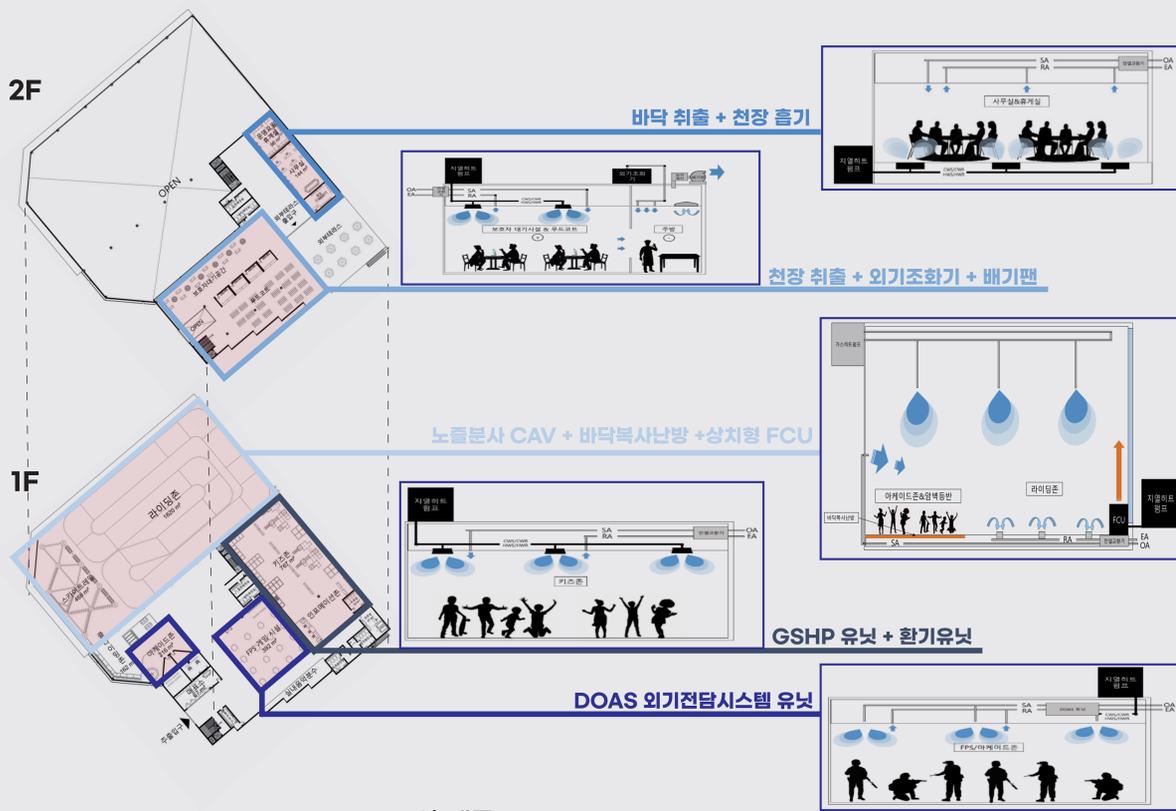
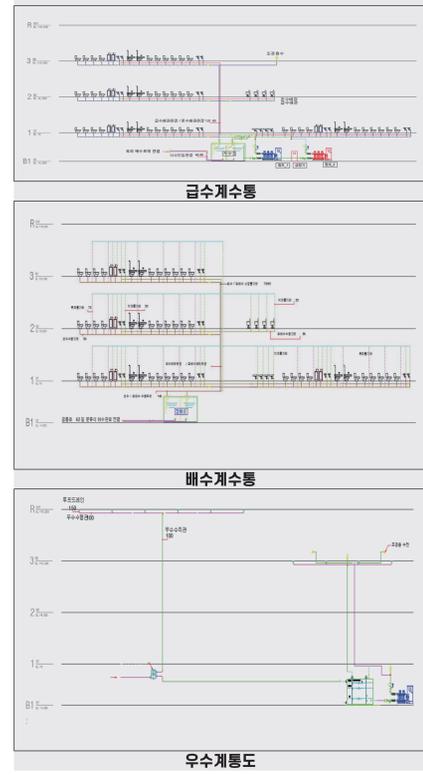


5. HVAC SYSTEM



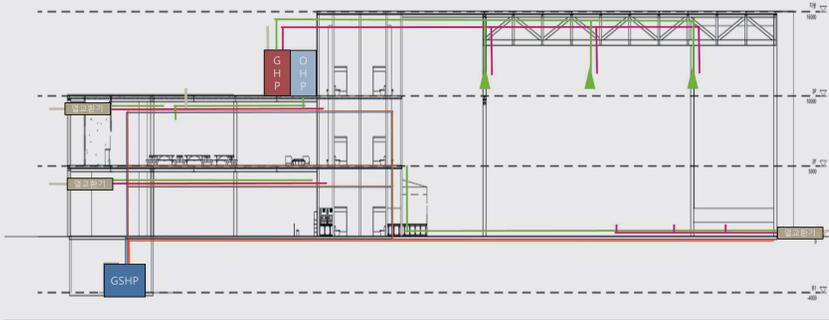
6. SANITARY SYSTEM



1) 조닝

A	아케이드 존 & FPS 존
B	키즈존
C	라이딩 존 & 스카이트레일
D	대기공간 & 푸드코트
E	사무실
O	복도 및 화장실

2) 계통도

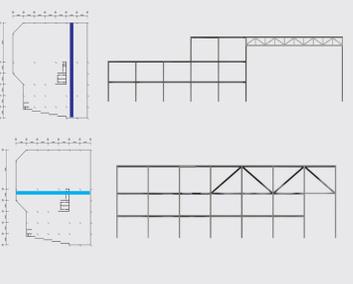


7. FIRE PROTECTION



7. MATRIX STRUCTURAL ANALYSIS

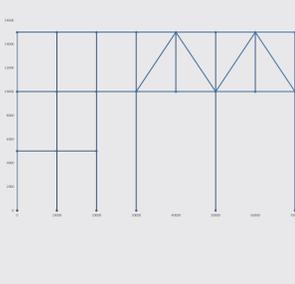
1. 해석 단면 설정



2. 절점 설정

Node No.	X (mm)	Y (mm)	Z (mm)
1	0	0	0
2	0	0	1000
3	0	0	2000
4	0	0	3000
5	0	0	4000
6	0	0	5000
7	0	0	6000
8	0	0	7000
9	0	0	8000
10	0	0	9000
11	0	0	10000
12	0	0	11000
13	0	0	12000
14	0	0	13000
15	0	0	14000
16	0	0	15000
17	0	0	16000
18	0	0	17000
19	0	0	18000
20	0	0	19000
21	0	0	20000
22	0	0	21000
23	0	0	22000
24	0	0	23000
25	0	0	24000
26	0	0	25000
27	0	0	26000
28	0	0	27000
29	0	0	28000
30	0	0	29000
31	0	0	30000
32	0	0	31000
33	0	0	32000
34	0	0	33000
35	0	0	34000

3. 골조 모델 형성



4. 전체 강성행렬

Node No.	X (mm)	Y (mm)	Z (mm)	DOF	Stiffness
1	0	0	0	1	1.0000e+08
1	0	0	0	2	1.0000e+08
1	0	0	0	3	1.0000e+08
2	0	0	1000	1	1.0000e+08
2	0	0	1000	2	1.0000e+08
2	0	0	1000	3	1.0000e+08
3	0	0	2000	1	1.0000e+08
3	0	0	2000	2	1.0000e+08
3	0	0	2000	3	1.0000e+08
4	0	0	3000	1	1.0000e+08
4	0	0	3000	2	1.0000e+08
4	0	0	3000	3	1.0000e+08
5	0	0	4000	1	1.0000e+08
5	0	0	4000	2	1.0000e+08
5	0	0	4000	3	1.0000e+08
6	0	0	5000	1	1.0000e+08
6	0	0	5000	2	1.0000e+08
6	0	0	5000	3	1.0000e+08
7	0	0	6000	1	1.0000e+08
7	0	0	6000	2	1.0000e+08
7	0	0	6000	3	1.0000e+08
8	0	0	7000	1	1.0000e+08
8	0	0	7000	2	1.0000e+08
8	0	0	7000	3	1.0000e+08
9	0	0	8000	1	1.0000e+08
9	0	0	8000	2	1.0000e+08
9	0	0	8000	3	1.0000e+08
10	0	0	9000	1	1.0000e+08
10	0	0	9000	2	1.0000e+08
10	0	0	9000	3	1.0000e+08
11	0	0	10000	1	1.0000e+08
11	0	0	10000	2	1.0000e+08
11	0	0	10000	3	1.0000e+08
12	0	0	11000	1	1.0000e+08
12	0	0	11000	2	1.0000e+08
12	0	0	11000	3	1.0000e+08
13	0	0	12000	1	1.0000e+08
13	0	0	12000	2	1.0000e+08
13	0	0	12000	3	1.0000e+08
14	0	0	13000	1	1.0000e+08
14	0	0	13000	2	1.0000e+08
14	0	0	13000	3	1.0000e+08
15	0	0	14000	1	1.0000e+08
15	0	0	14000	2	1.0000e+08
15	0	0	14000	3	1.0000e+08
16	0	0	15000	1	1.0000e+08
16	0	0	15000	2	1.0000e+08
16	0	0	15000	3	1.0000e+08
17	0	0	16000	1	1.0000e+08
17	0	0	16000	2	1.0000e+08
17	0	0	16000	3	1.0000e+08
18	0	0	17000	1	1.0000e+08
18	0	0	17000	2	1.0000e+08
18	0	0	17000	3	1.0000e+08
19	0	0	18000	1	1.0000e+08
19	0	0	18000	2	1.0000e+08
19	0	0	18000	3	1.0000e+08
20	0	0	19000	1	1.0000e+08
20	0	0	19000	2	1.0000e+08
20	0	0	19000	3	1.0000e+08
21	0	0	20000	1	1.0000e+08
21	0	0	20000	2	1.0000e+08
21	0	0	20000	3	1.0000e+08
22	0	0	21000	1	1.0000e+08
22	0	0	21000	2	1.0000e+08
22	0	0	21000	3	1.0000e+08
23	0	0	22000	1	1.0000e+08
23	0	0	22000	2	1.0000e+08
23	0	0	22000	3	1.0000e+08
24	0	0	23000	1	1.0000e+08
24	0	0	23000	2	1.0000e+08
24	0	0	23000	3	1.0000e+08
25	0	0	24000	1	1.0000e+08
25	0	0	24000	2	1.0000e+08
25	0	0	24000	3	1.0000e+08
26	0	0	25000	1	1.0000e+08
26	0	0	25000	2	1.0000e+08
26	0	0	25000	3	1.0000e+08
27	0	0	26000	1	1.0000e+08
27	0	0	26000	2	1.0000e+08
27	0	0	26000	3	1.0000e+08
28	0	0	27000	1	1.0000e+08
28	0	0	27000	2	1.0000e+08
28	0	0	27000	3	1.0000e+08
29	0	0	28000	1	1.0000e+08
29	0	0	28000	2	1.0000e+08
29	0	0	28000	3	1.0000e+08
30	0	0	29000	1	1.0000e+08
30	0	0	29000	2	1.0000e+08
30	0	0	29000	3	1.0000e+08
31	0	0	30000	1	1.0000e+08
31	0	0	30000	2	1.0000e+08
31	0	0	30000	3	1.0000e+08
32	0	0	31000	1	1.0000e+08
32	0	0	31000	2	1.0000e+08
32	0	0	31000	3	1.0000e+08
33	0	0	32000	1	1.0000e+08
33	0	0	32000	2	1.0000e+08
33	0	0	32000	3	1.0000e+08
34	0	0	33000	1	1.0000e+08
34	0	0	33000	2	1.0000e+08
34	0	0	33000	3	1.0000e+08
35	0	0	34000	1	1.0000e+08
35	0	0	34000	2	1.0000e+08
35	0	0	34000	3	1.0000e+08

5. 등가절점하중 입력

Node No.	X (mm)	Y (mm)	Z (mm)	DOF	Load
1	0	0	0	1	0.0000e+00
1	0	0	0	2	0.0000e+00
1	0	0	0	3	0.0000e+00
2	0	0	1000	1	0.0000e+00
2	0	0	1000	2	0.0000e+00
2	0	0	1000	3	0.0000e+00
3	0	0	2000	1	0.0000e+00
3	0	0	2000	2	0.0000e+00
3	0	0	2000	3	0.0000e+00
4	0	0	3000	1	0.0000e+00
4	0	0	3000	2	0.0000e+00
4	0	0	3000	3	0.0000e+00
5	0	0	4000	1	0.0000e+00
5	0	0	4000	2	0.0000e+00
5	0	0	4000	3	0.0000e+00
6	0	0	5000	1	0.0000e+00
6	0	0	5000	2	0.0000e+00
6	0	0	5000	3	0.0000e+00
7	0	0	6000	1	0.0000e+00
7	0	0	6000	2	0.0000e+00
7	0	0	6000	3	0.0000e+00
8	0	0	7000	1	0.0000e+00
8	0	0	7000	2	0.0000e+00
8	0	0	7000	3	0.0000e+00
9	0	0	8000	1	0.0000e+00
9	0	0	8000	2	0.0000e+00
9	0	0	8000	3	0.0000e+00
10	0	0	9000	1	0.0000e+00
10	0	0	9000	2	0.0000e+00
10	0	0	9000	3	0.0000e+00
11	0	0	10000	1	0.0000e+00
11	0	0	10000	2	0.0000e+00
11	0	0	10000	3	0.0000e+00
12	0	0	11000	1	0.0000e+00
12	0	0	11000	2	0.0000e+00
12	0	0	11000	3	0.0000e+00
13	0	0	12000	1	0.0000e+00
13	0	0	12000	2	0.0000e+00
13	0	0	12000	3	0.0000e+00
14	0	0	13000	1	0.0000e+00
14	0	0	13000	2	0.0000e+00
14	0	0	13000	3	0.0000e+00
15	0	0	14000	1	0.0000e+00
15	0	0	14000	2	0.0000e+00
15	0	0	14000	3	0.0000e+00
16	0	0	15000	1	0.0000e+00
16	0	0	15000	2	0.0000e+00
16	0	0	15000	3	0.0000e+00
17	0	0	16000	1	0.0000e+00
17	0	0	16000	2	0.0000e+00
17	0	0	16000	3	0.0000e+00
18	0	0	17000	1	0.0000e+00
18	0	0	17000	2	0.0000e+00
18	0	0	17000	3	0.0000e+00
19	0	0	18000	1	0.0000e+00
19	0	0	18000	2	0.0000e+00
19	0	0	18000	3	0.0000e+00
20	0	0	19000	1	0.0000e+00
20	0	0	19000	2	0.0000e+00
20	0	0	19000	3	0.0000e+00
21	0	0	20000	1	0.0000e+00
21	0	0	20000	2	0.0000e+00
21	0	0	20000	3	0.0000e+00
22	0	0	21000	1	0.0000e+00
22	0	0	21000	2	0.0000e+00
22	0	0	21000	3	0.0000e+00
23	0	0	22000	1	0.0000e+00
23	0	0	22000	2	0.0000e+00
23	0	0	22000	3	0.0000e+00
24	0	0	23000	1	0.0000e+00
24	0				