

BAB VII

KESIMPULAN DAN SARAN

7.1 Kesimpulan

Setelah dilakukan estimasi dimensi, analisis gempa dan perhitungan elemen struktur pada Gedung Pascasarjana Fakultas Kedokteran Universitas Gadjah Mada Yogyakarta, dapat diambil kesimpulan sebagai berikut:

1. Pelat lantai dan pelat atap dirancang menggunakan pelat dua arah. Pelat lantai dengan tebal 120 mm, menggunakan tulangan tumpua arah x dan y P10-100, tulangan lapangan arah x dan y P10-200 dan tulang susut P8-200. Pelat atap dengan tebal 100 mm, menggunakan tulangan tumpuan dan lapangan arah x dan y P10-200 dan tulangan susut P8-200.
2. Tangga utama dengan tebal pelat 180 mm, tinggi 5,5 meter menggunakan tulangan longitudinal D16-100 dan tulangan susut P10-200
3. Tangga darurat dengan tebal 150 mm, tinggi 4,2 meter menggunakan tulangan tulangan longitudinal D16-150 dan tulangan susut P10-200
4. Balok bordes untuk tangga utama dengan dimensi 350 x 700 mm², menggunakan tulangan tumpuan atas 4 D22 dan bawah 3 D22, lapangan atas 2 D22 dan bawah 3 D22, Tulangan Pinggang 2 D13, sengkang tumpuan P10-150 dan lapangan P10-200

5. Balok bordes untuk tangga darurat dengan dimensi $250 \times 400 \text{ mm}^2$, menggunakan tulangan tumpuan atas dan bawah 2 D16, lapangan atas dan bawah 2 D16, sengkang tumpuan 2P10-75 dan lapangan 2P10-150
6. Balok induk yang didesain Balok B1 dengan dimensi $350 \times 700 \text{ mm}^2$, menggunakan tulangan tumpuan atas 9 D25 dan bawah 6 D25, lapangan atas 3 D25 dan bawah 4 D25, Tulangan pinggang 2 D13, sengkang tumpuan 3P12-100 dan lapangan 2P12-150
7. Balok anak yang didesain Balok B2 dengan dimensi $250 \times 500 \text{ mm}^2$, menggunakan tulangan tumpuan atas 4 D25 dan bawah 2 D25, lapangan atas 2 D25 dan bawah 3 D25, sengkang tumpuan 2P12-100 dan lapangan 2P12-200
8. Kolom yang didesain adalah kolom lantai 2 dengan dimensi $900 \times 900 \text{ mm}^2$, menggunakan tulangan longitudinal 40 D25, sengkang 6 P12-100 sepanjang dan 6 P12-150 di luar l_0

7.2 Saran

Berikut beberapa saran penulis dari hasil penyusunan tugas akhir Perancangan Struktur Atas Gedung Pascasarjana Fakultas Kedokteran Universitas Gadjah Mada Yogyakarta :

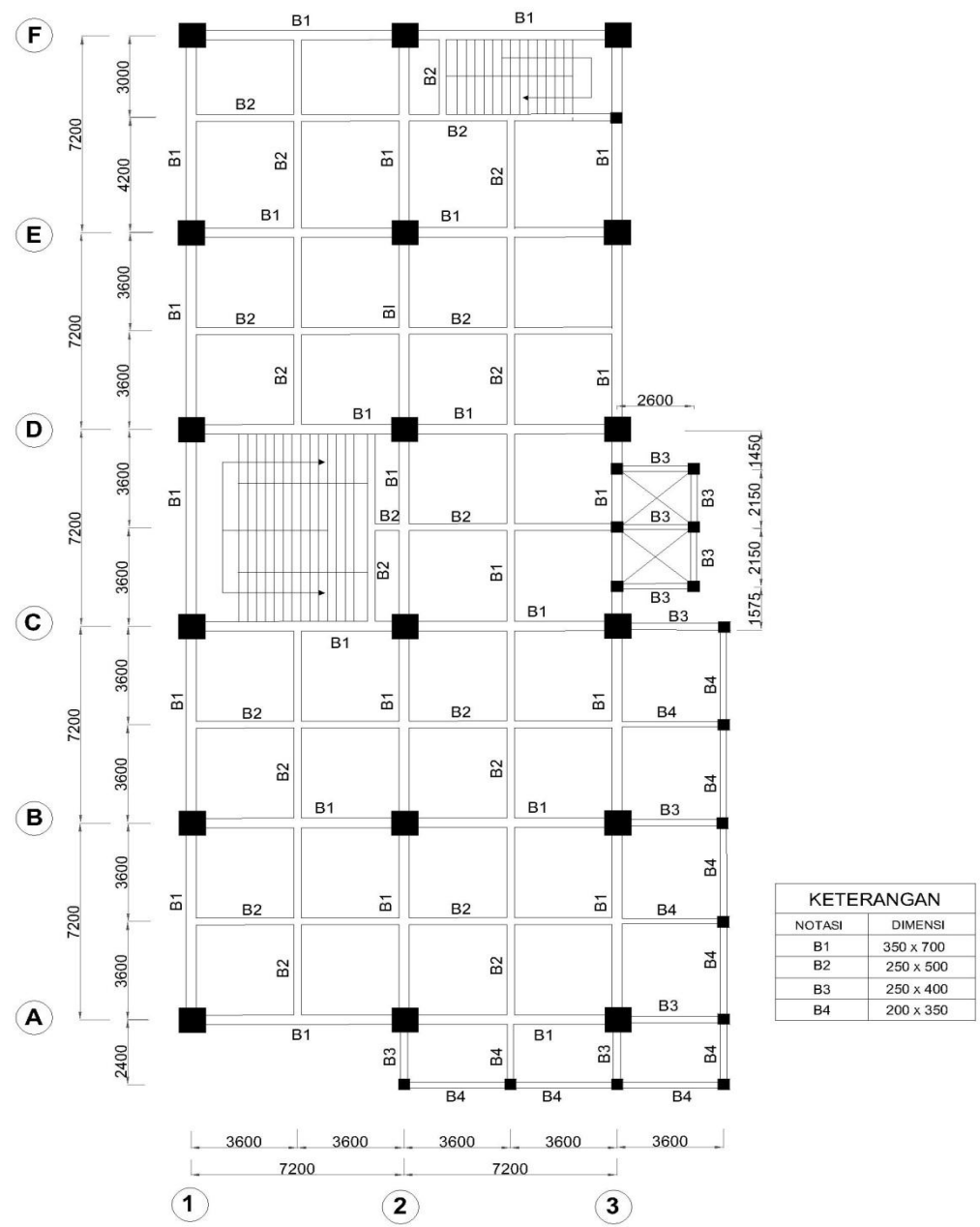
1. Pemahaman tentang denah lokasi bangunan yang akan dirancang sangat penting sebelum memulai pemodelan struktur agar lebih memperkecil resiko kesalahan pada saat pemodelan struktur.
2. Memperluas referensi perancangan dengan banyak membaca buku, jurnal, modul kuliah dan bertanya jika terdapat kesulitan dalam menyelesaikan tugas akhir.
3. Menggunakan program bantu seperti ETABS, dan IKOLAT dalam mengerjakan analisis struktur untuk mempermudah proses perhitungan,
4. Pembuatan target pengerjaan berupa jadwal pengerjaan agar lebih terproses dalam mengerjakan tugas akhir dengan tepat waktu.

DAFTAR PUSTAKA

- Badan Standarisasi Nasional, 2012, *Tata Cara Perencanaan Ketahanan Gempa untuk Bangunan Gedung dan Non Gedung*, SNI 1726-2012, Yayasan LPMB, Bandung.
- Badan Standarisasi Nasional, 2013, *Beban Minimum Untuk Perancangan Bangunan Gedung dan Struktur Lain*, SNI 1727-2013, Yayasan LPMB, Bandung.
- Badan Standarisasi Nasional, 2013, *Persyaratan Beton Struktural untuk Bangunan Gedung*, SNI 2847-2013 Yayasan LPMB, Bandung.
- Desain Spektra Indonesia, diakses 26 Februari 2017
(http://puskim.pu.go.id//Aplikasi/desain_spektra_indonesia_2011/)
- Dipohusodo, I., 1994, *Struktur Beton Bertulang*, Gramedia Pustaka Utama, Jakarta.
- Kusuma, G.H. dan Vis,W.C., 1993, *Dasar-dasar Perencanaan Beton Bertulang*, Erlangga, Jakarta.
- Nawy, E.G.,1990, *Beton Bertulang Suatu Pendekatan Dasar*, Refika Aditama, Bandung.
- Wang,C.K dan Salmon, C.G., 1990, *Desain Beton Bertulang*, Erlangga, Jakarta.
- Wigroho, H.Y., 2008, *Modul Kuliah Praktik Rekayasa*, Universitas Atma Jaya Yogyakarta, Yogyakarta.

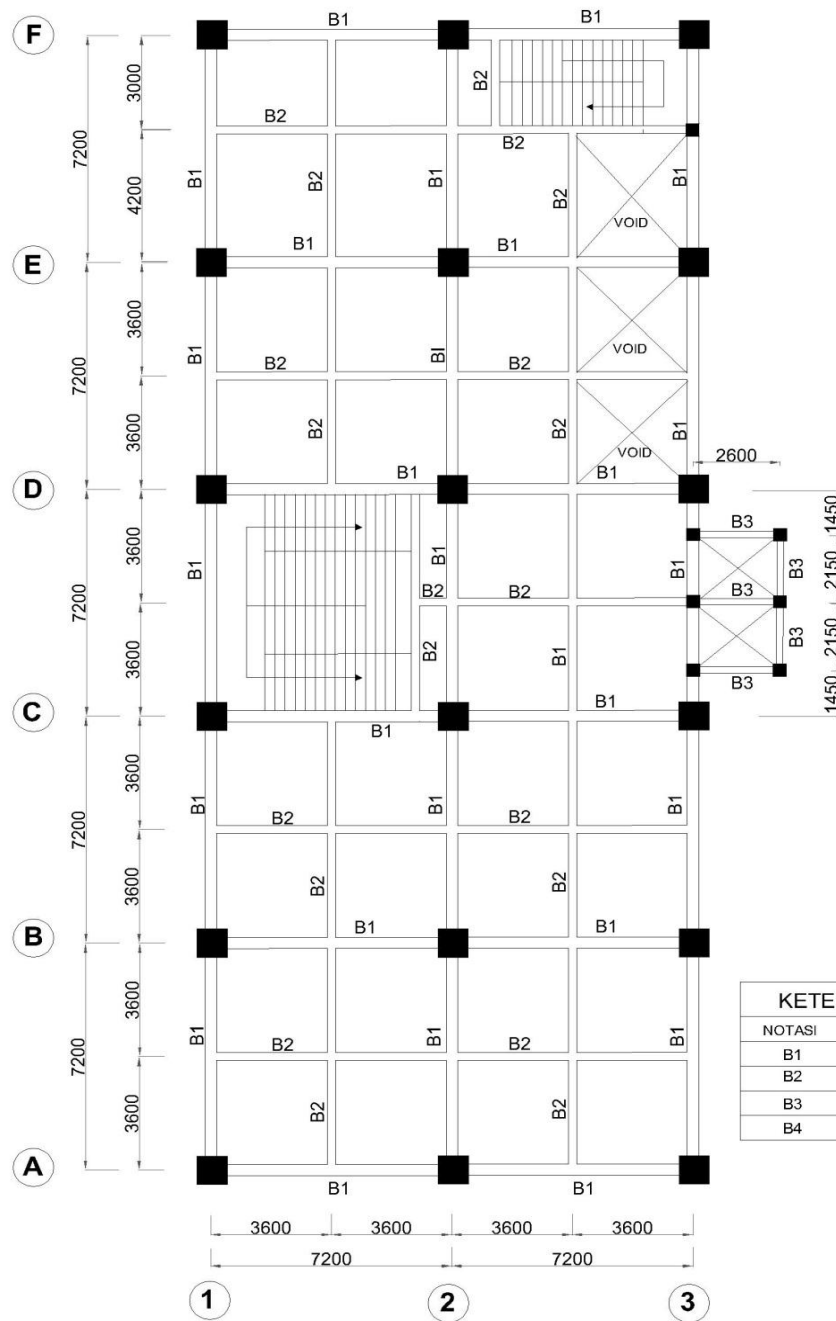


LAMPIRAN



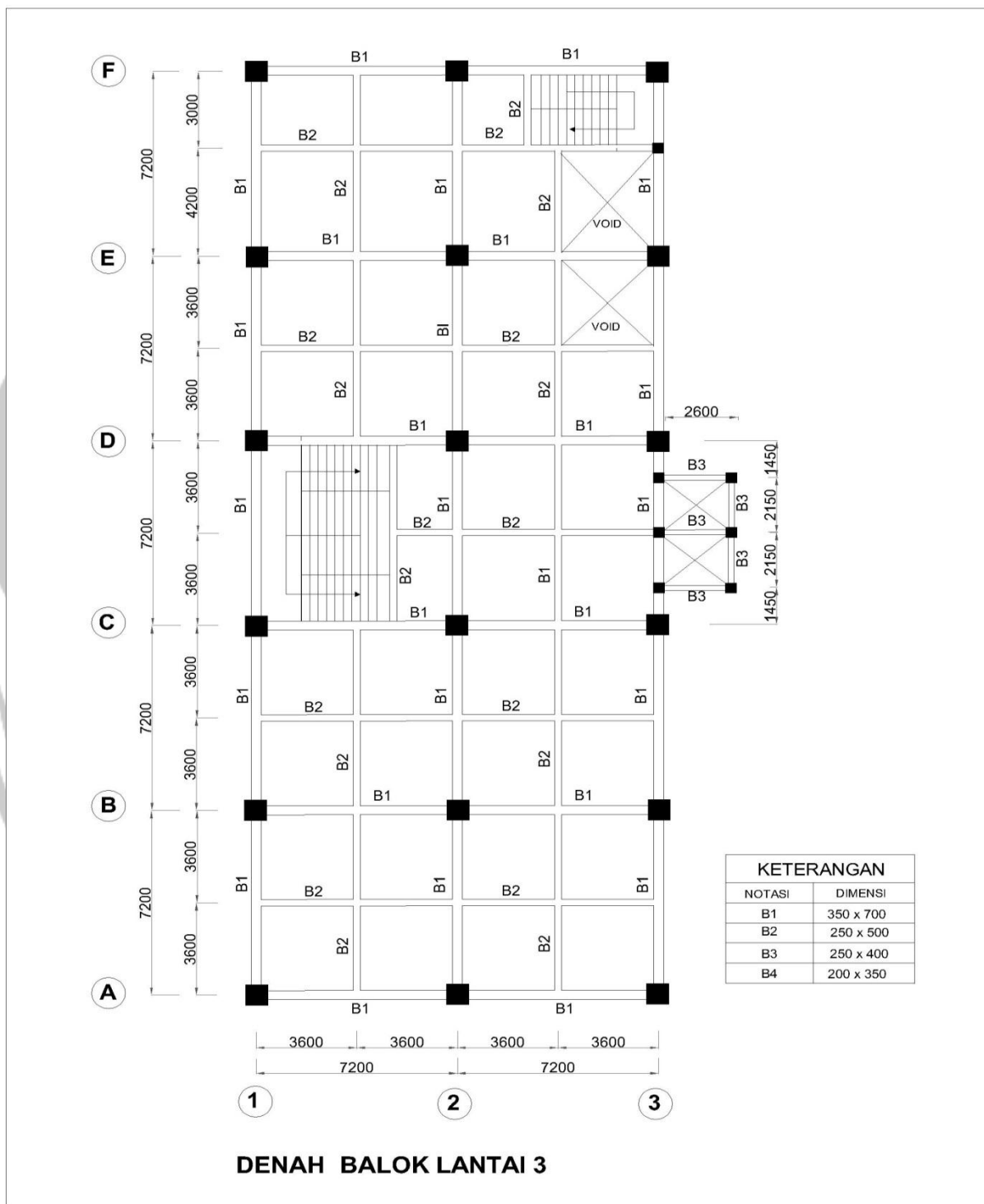
DENAH BALOK LANTAI 1

Lampiran 1 Denah Balok Lantai 1

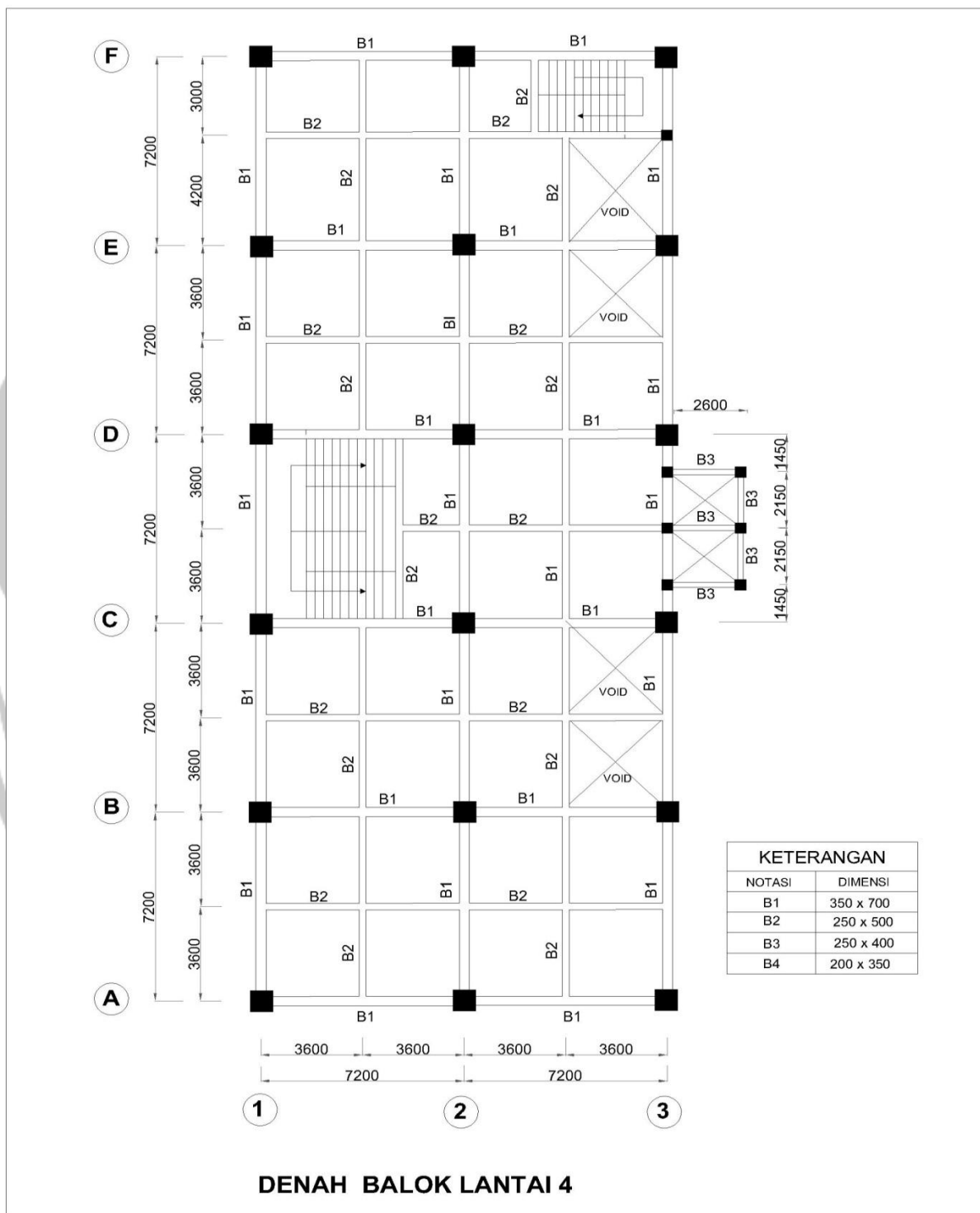


DENAH BALOK LANTAI 2

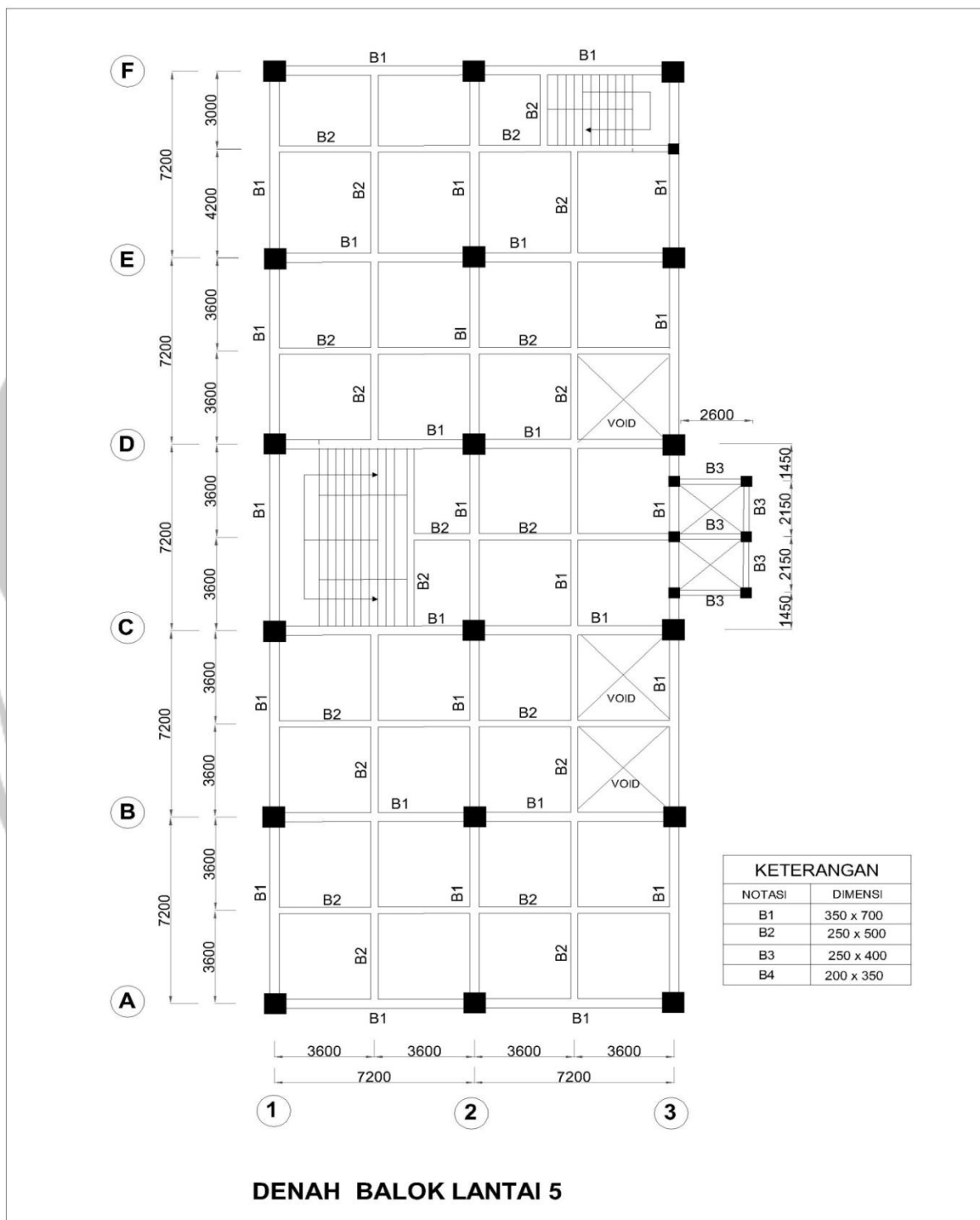
Lampiran 2 Denah Balok Lantai 2



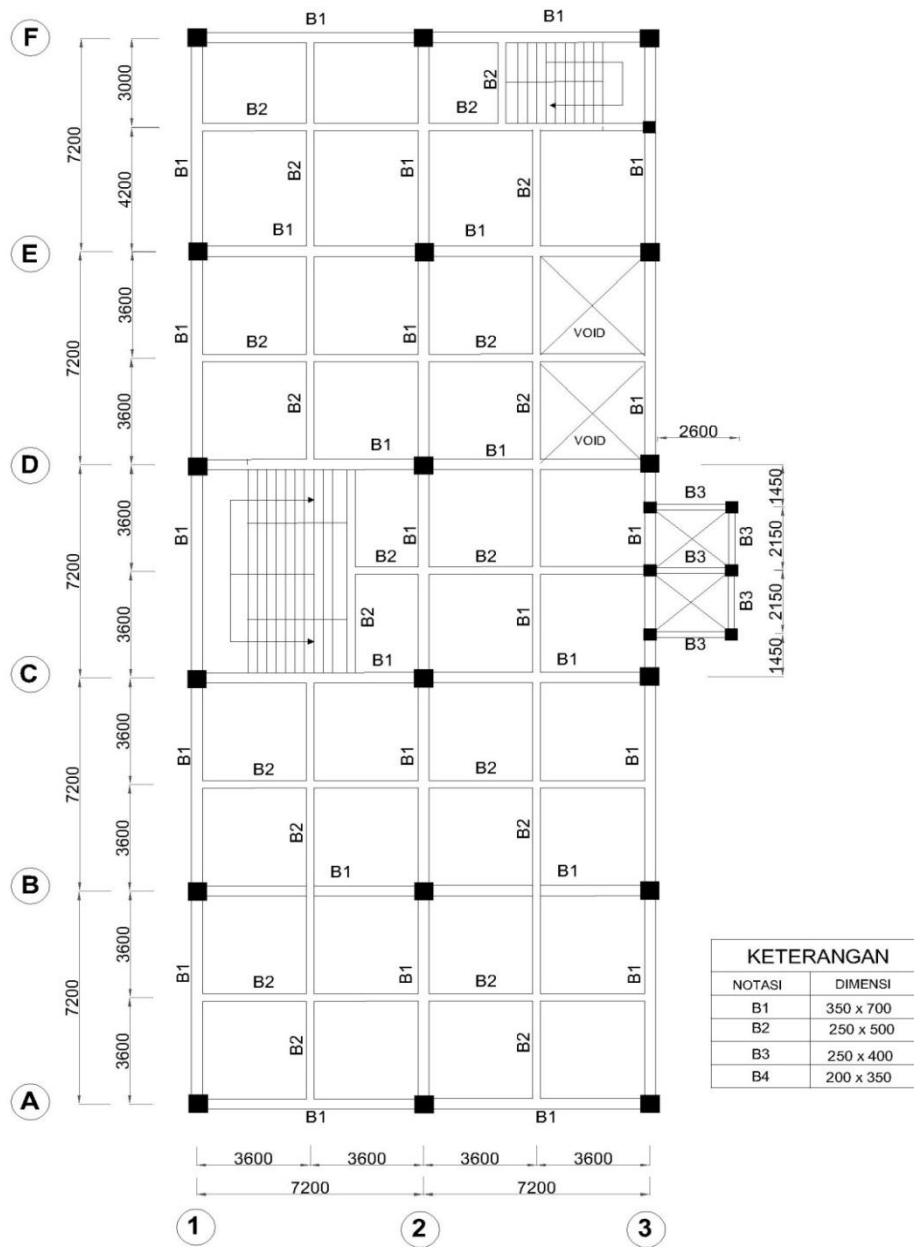
Lampiran 3 Denah Balok Lantai 3



Lampiran 4 Denah Balok Lantai 4

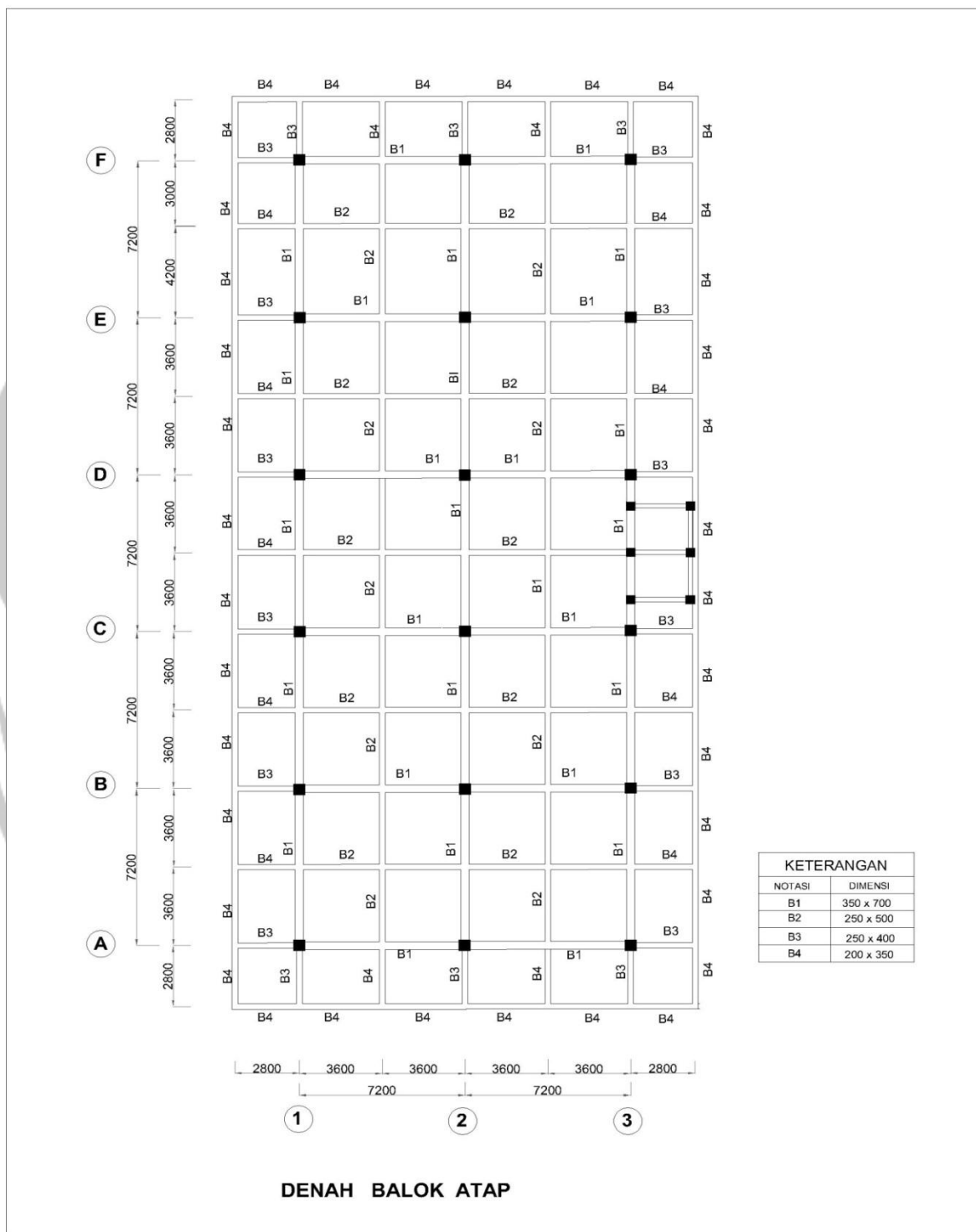


Lampiran 5 Denah Balok Lantai 5

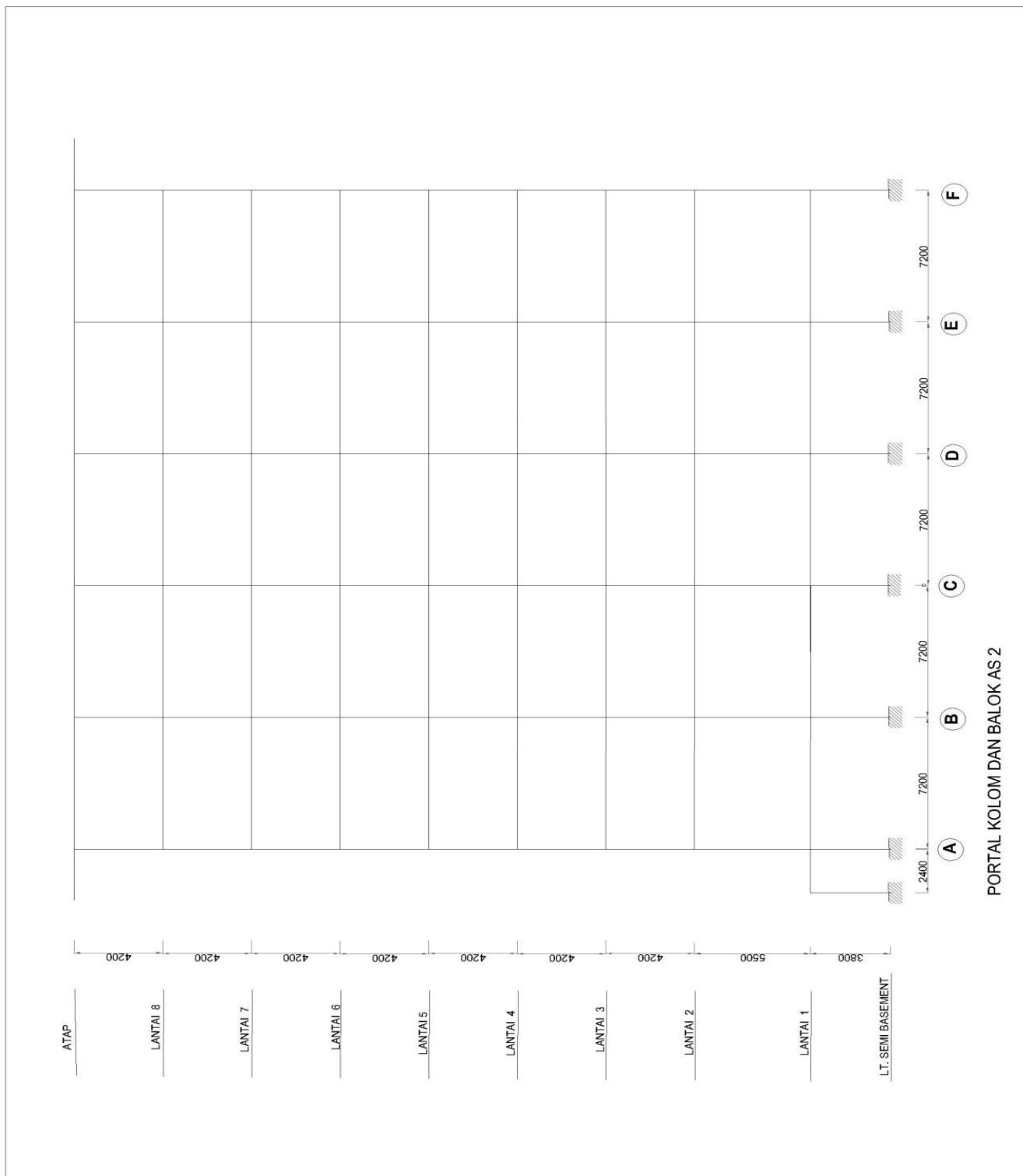


DENAH BALOK LANTAI 6 - 8

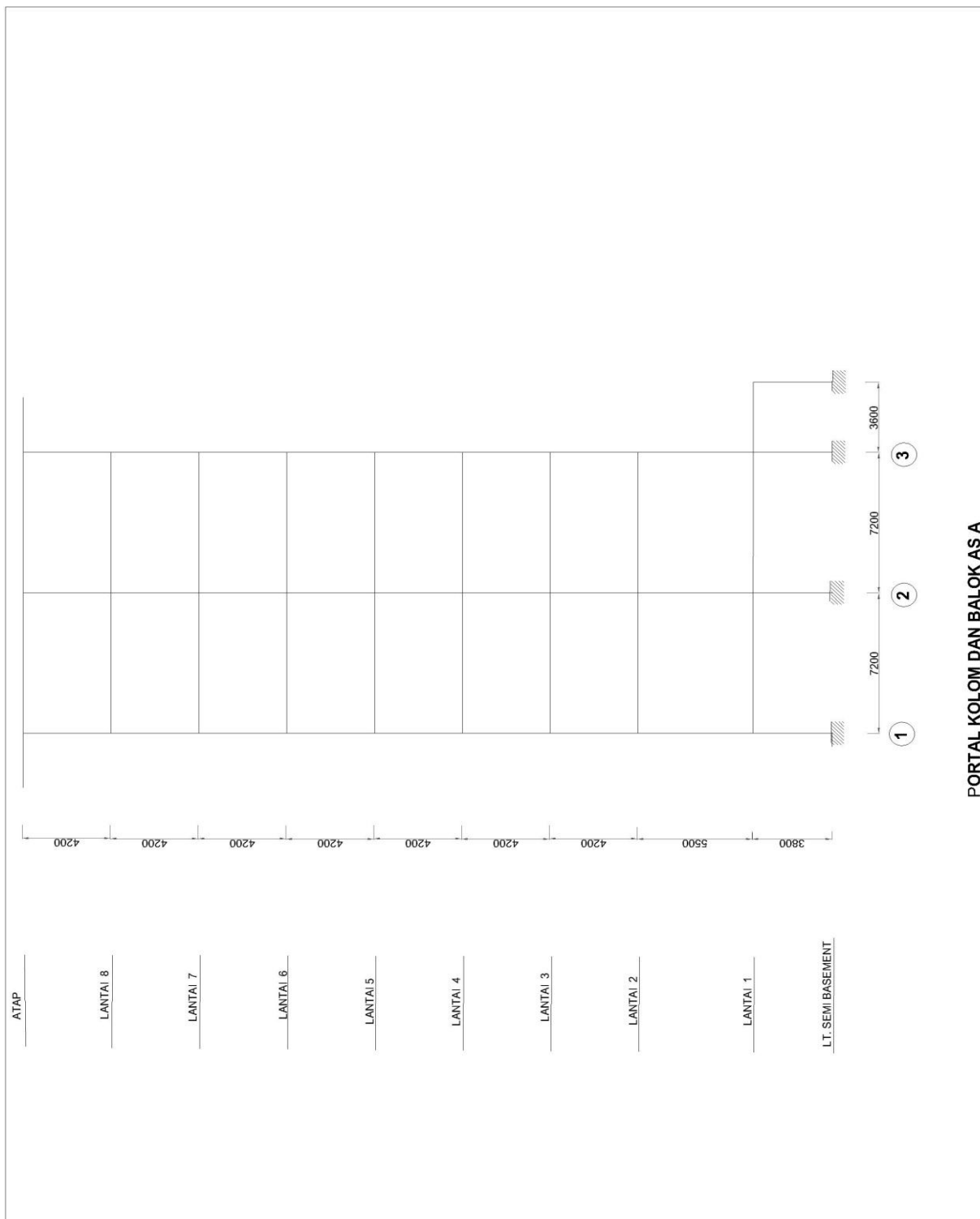
Lampiran 6 Denah Balok Lantai 6 - 8



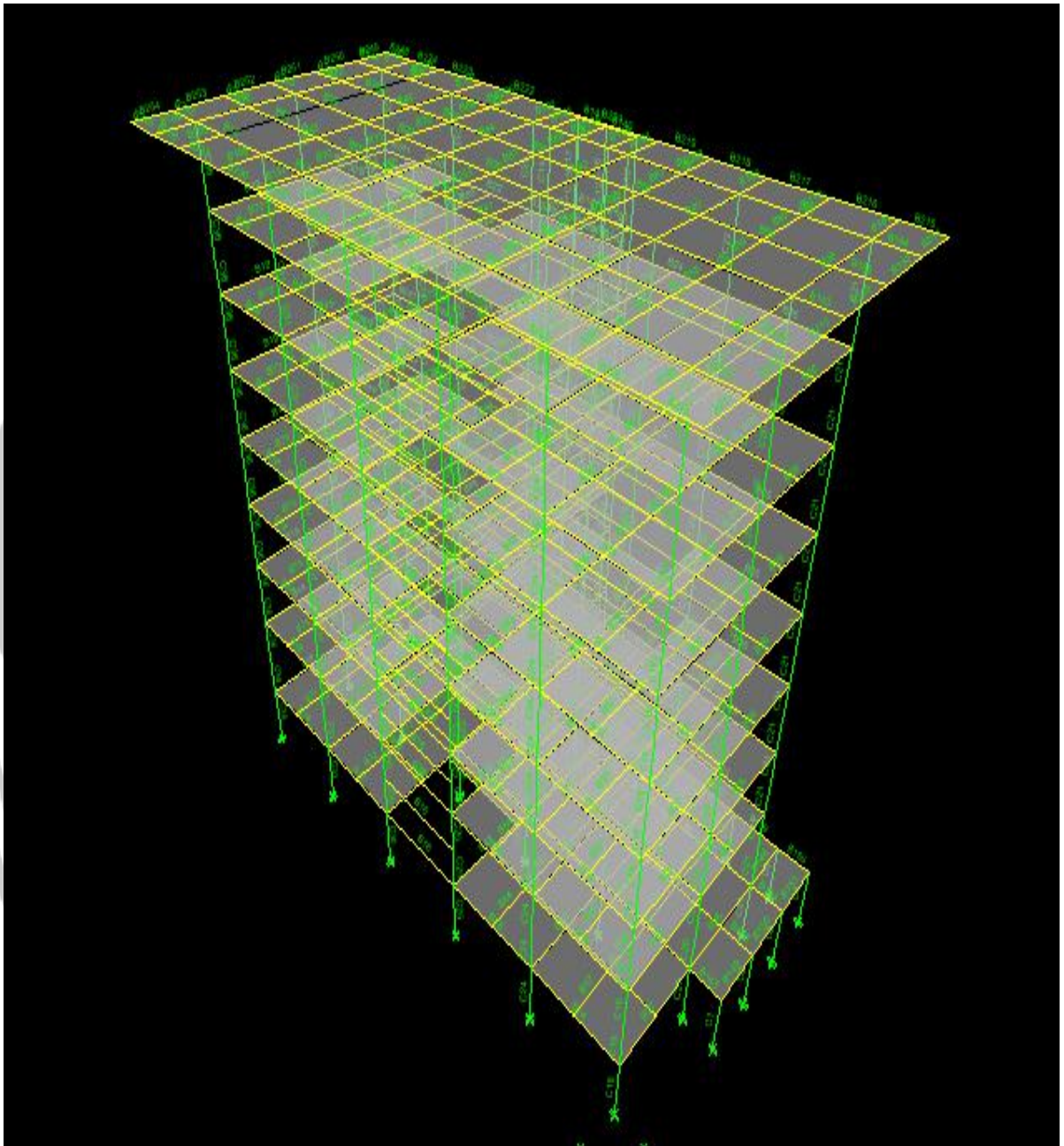
Lampiran 7 Denah Balok Lantai Atap



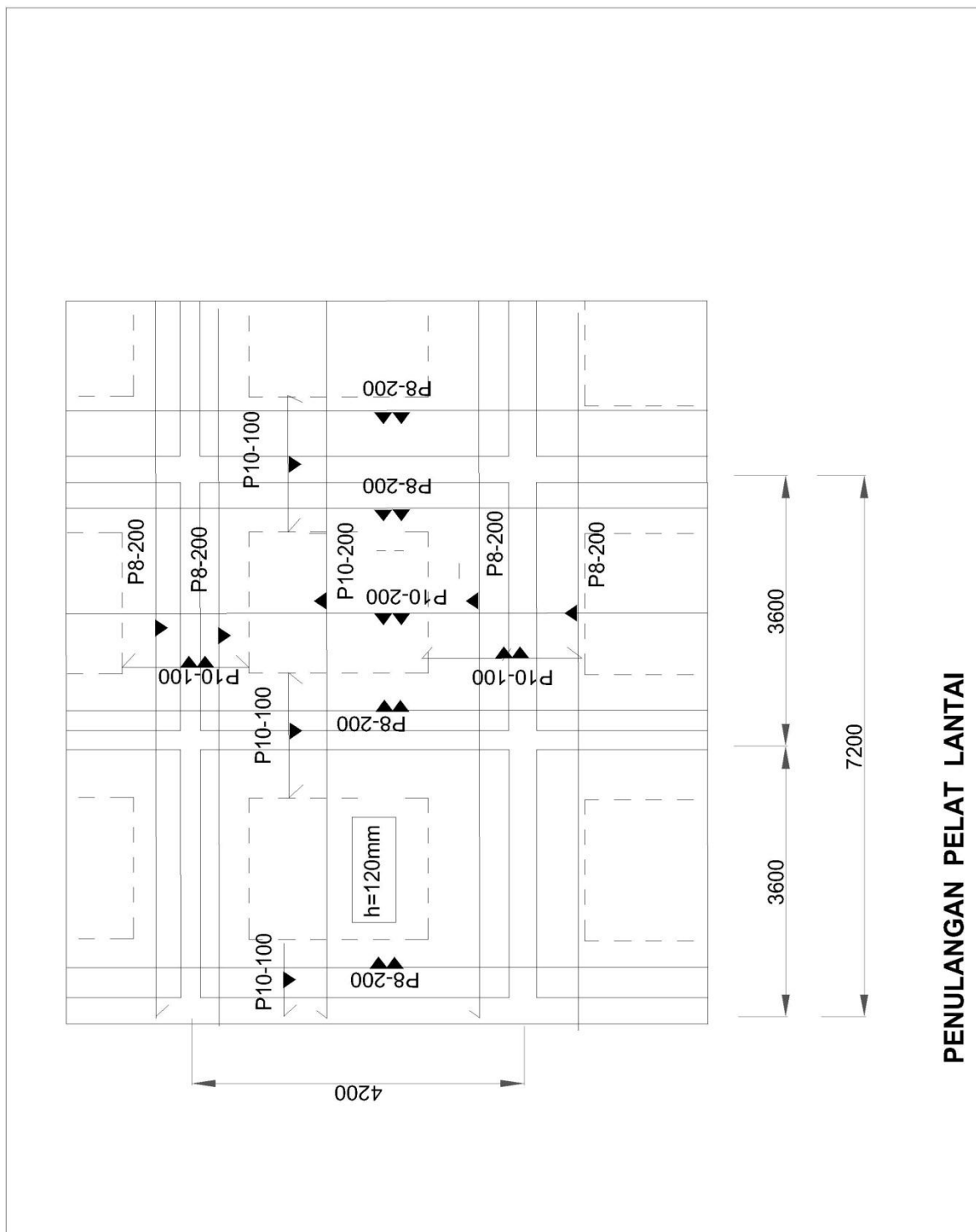
Lampiran 8 Potongan Portal As 2



Lampiran 9 Potongan Portal As A



Lampiran 10 Pemodelan Tiga dimensi

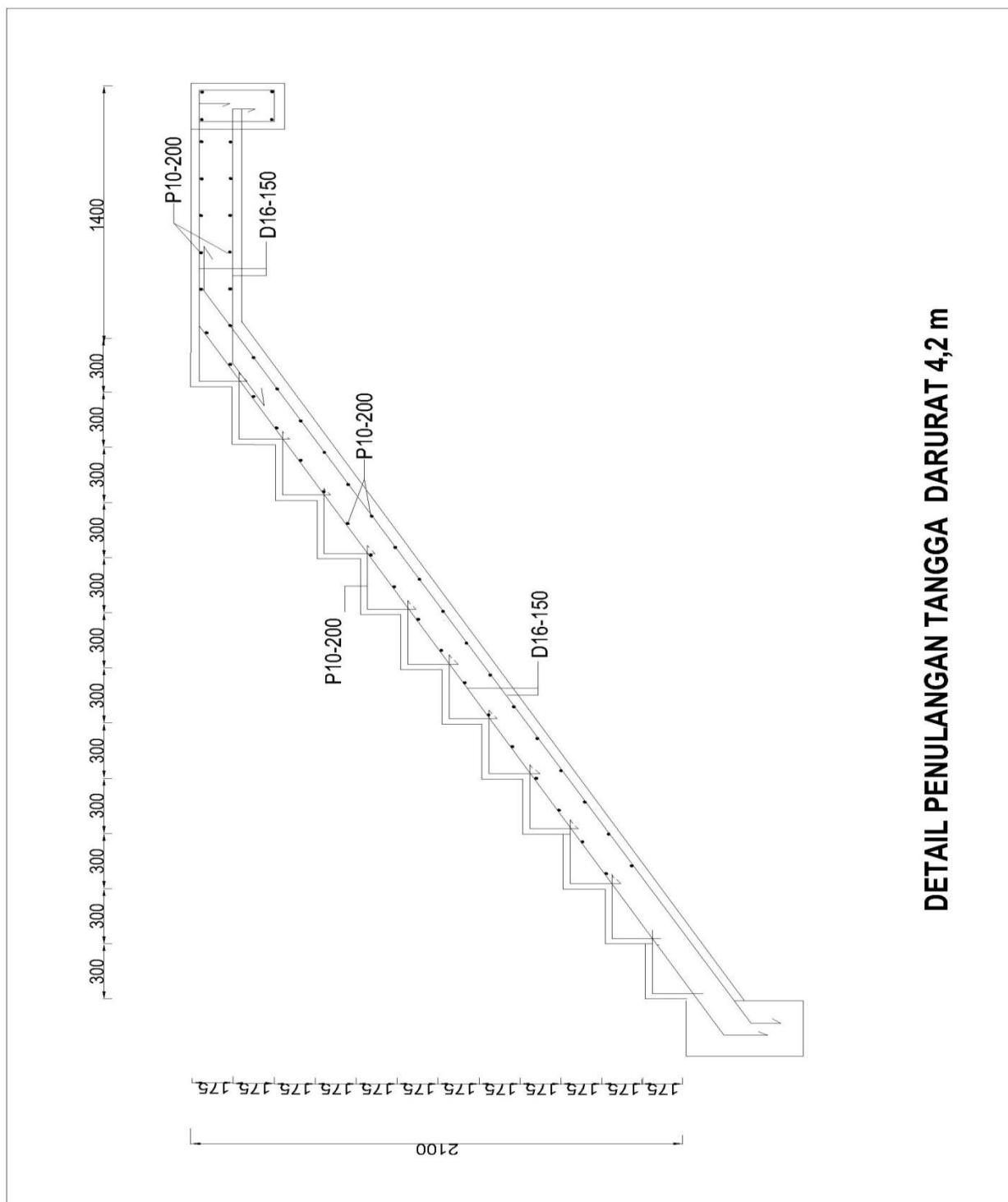


PENULANGAN PELAT LANTAI

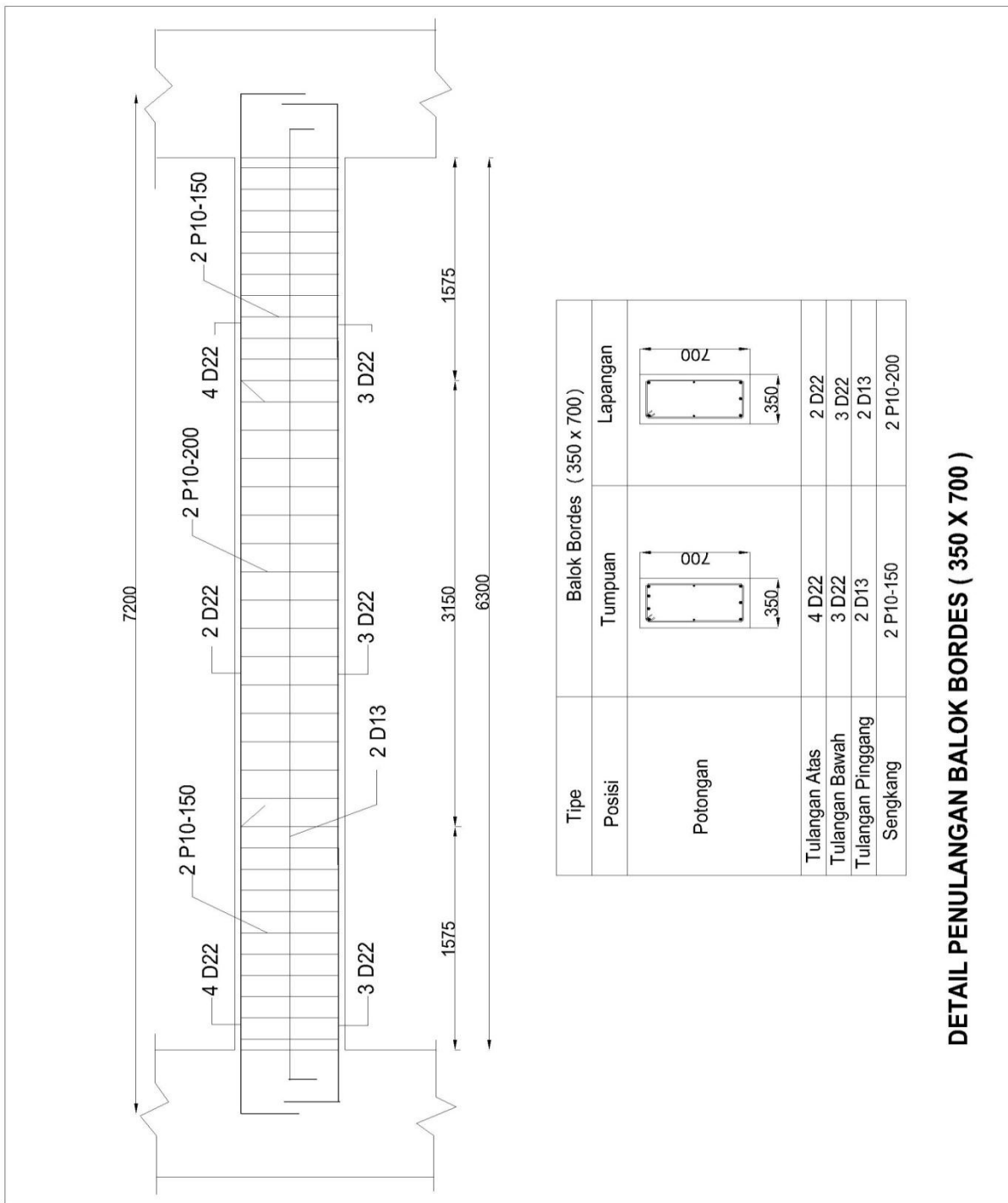
Lampiran 11 Penulangan Pelat Lantai



Lampiran 12 Penulangan Pelat Ata

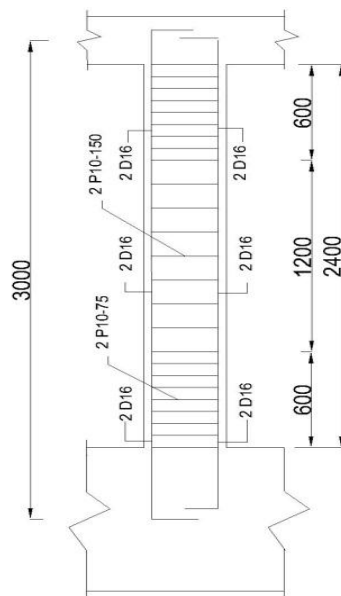




Lampiran 14 Detail Penulangan Tangga Darurat 4,2 m



DETAIL PENULANGAN BALOK BORDES (350 X 700)

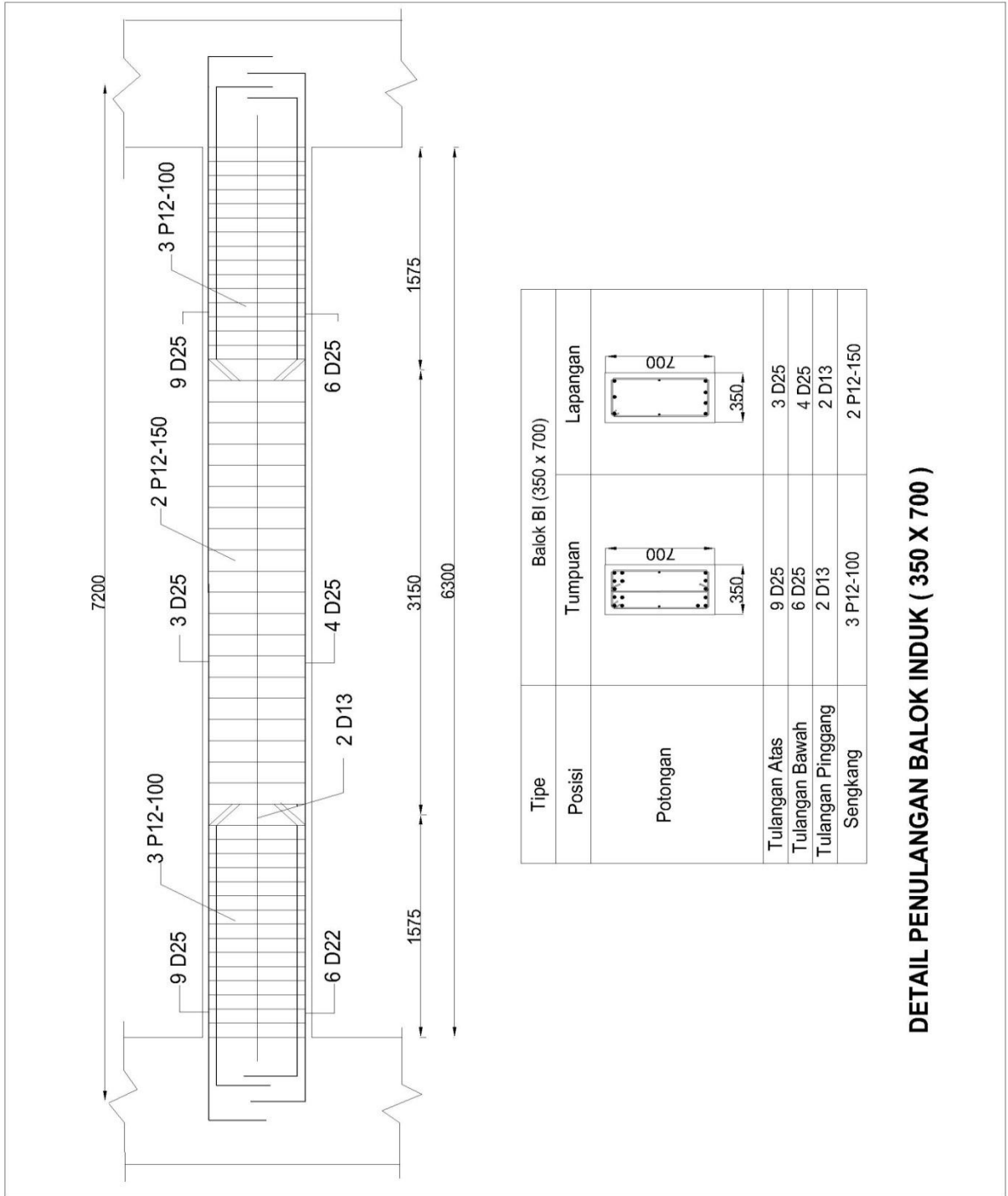
Lampiran 15 Detail Penulangan Balok Bordes (350 x700)



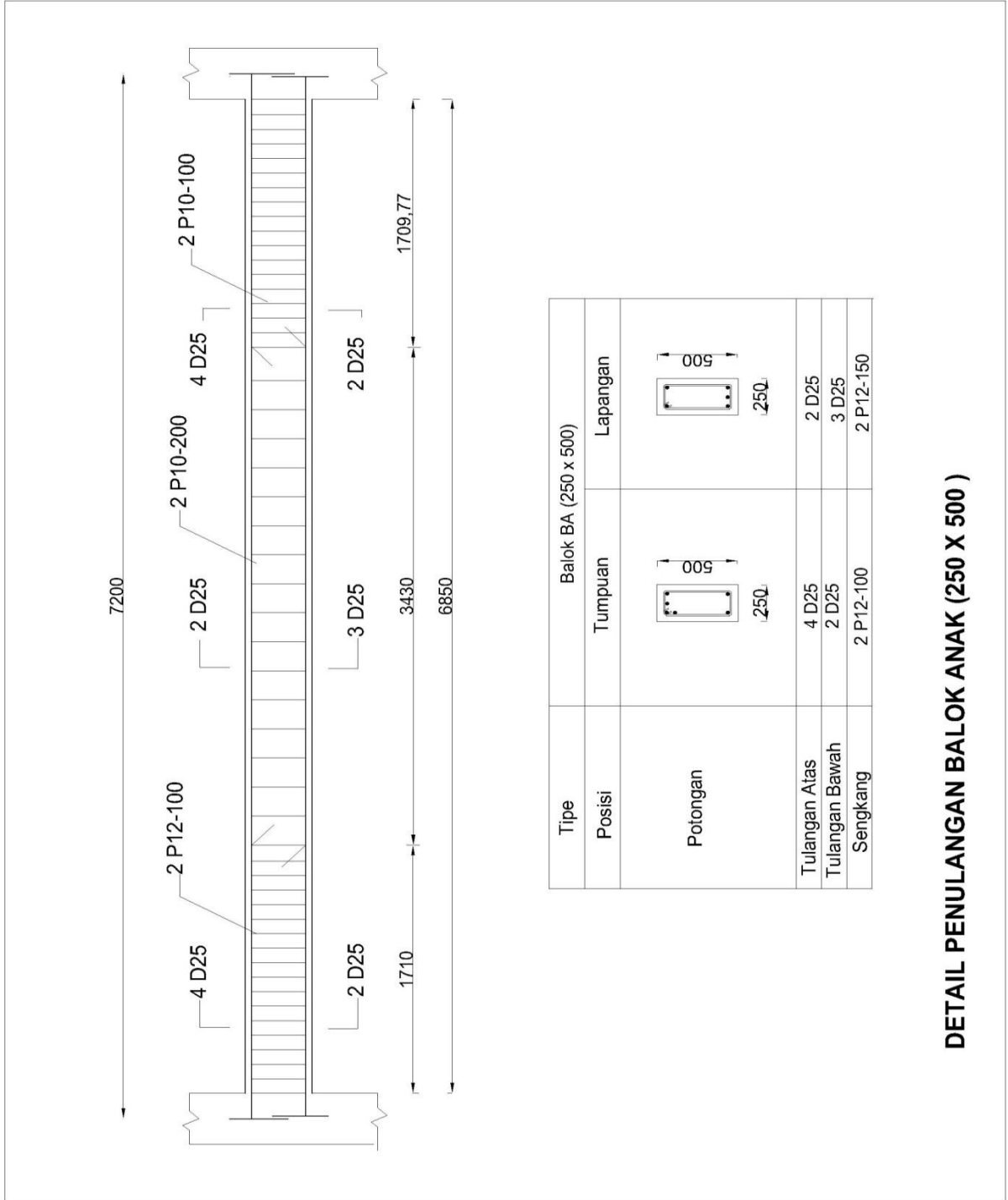
Type	Balok Bordes (250 x 400)	
Posisi	Tumpuan	Lapangan
Potongan		
Tulangan Atas	2 D16	2 D16
Tulangan Bawah	2 D16	2 D16
Sengkang	3 P10-75	3 P10-150

DETAIL PENULANGAN BALOK BORDES (250 X 400)

Lampiran 16 Detail Penulangan Balok Bordes (250 x 400)

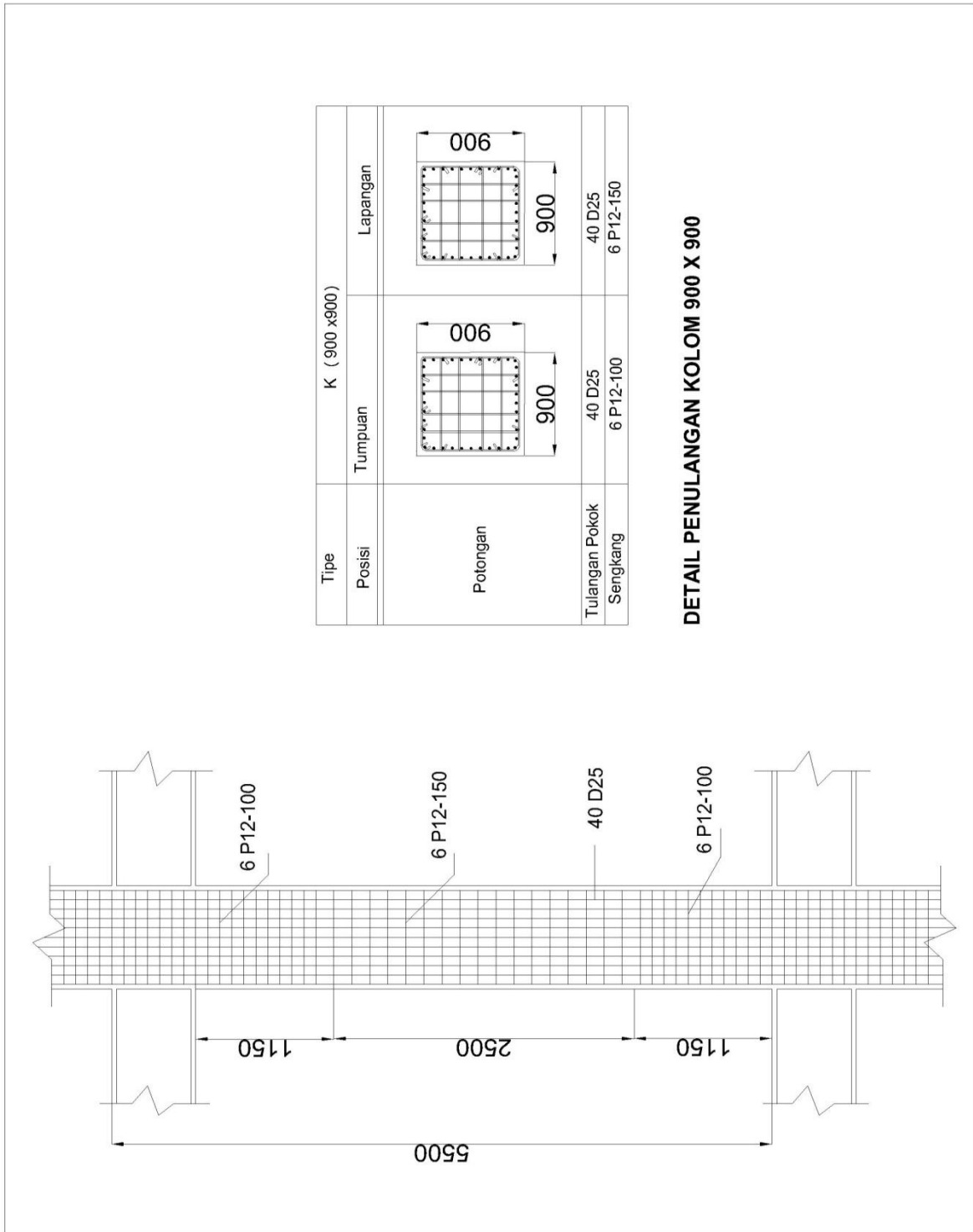


Lampiran 17 Detail Penulangan Balok Induk B1 (350 x 700)

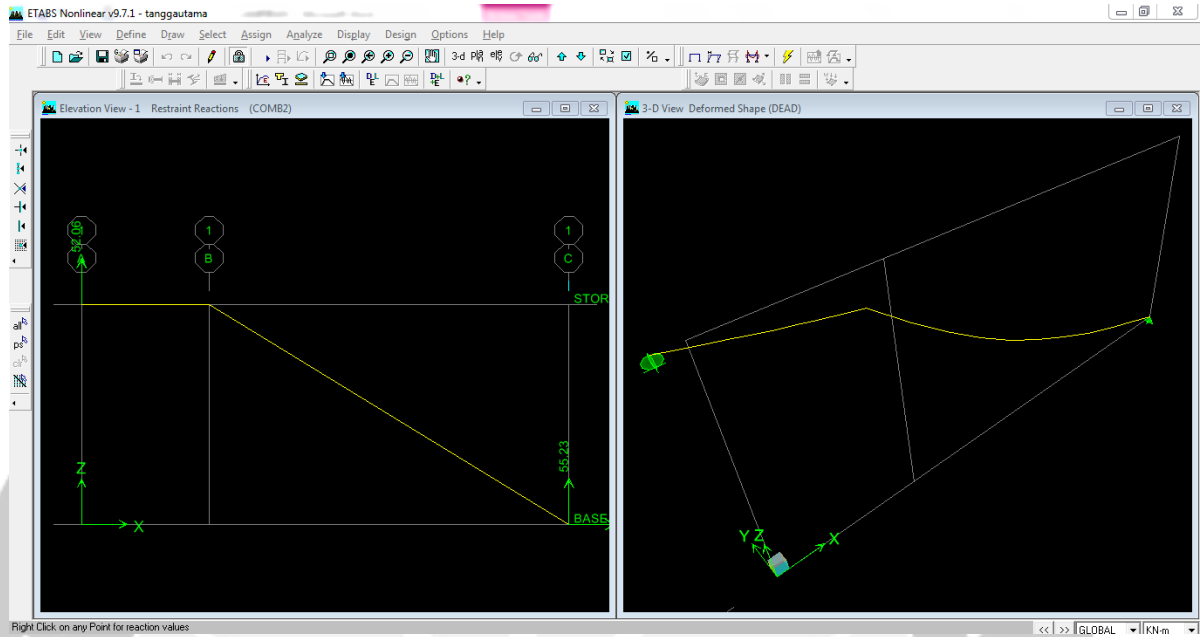


DETAIL PENULANGAN BALOK ANAK (250 X 500)

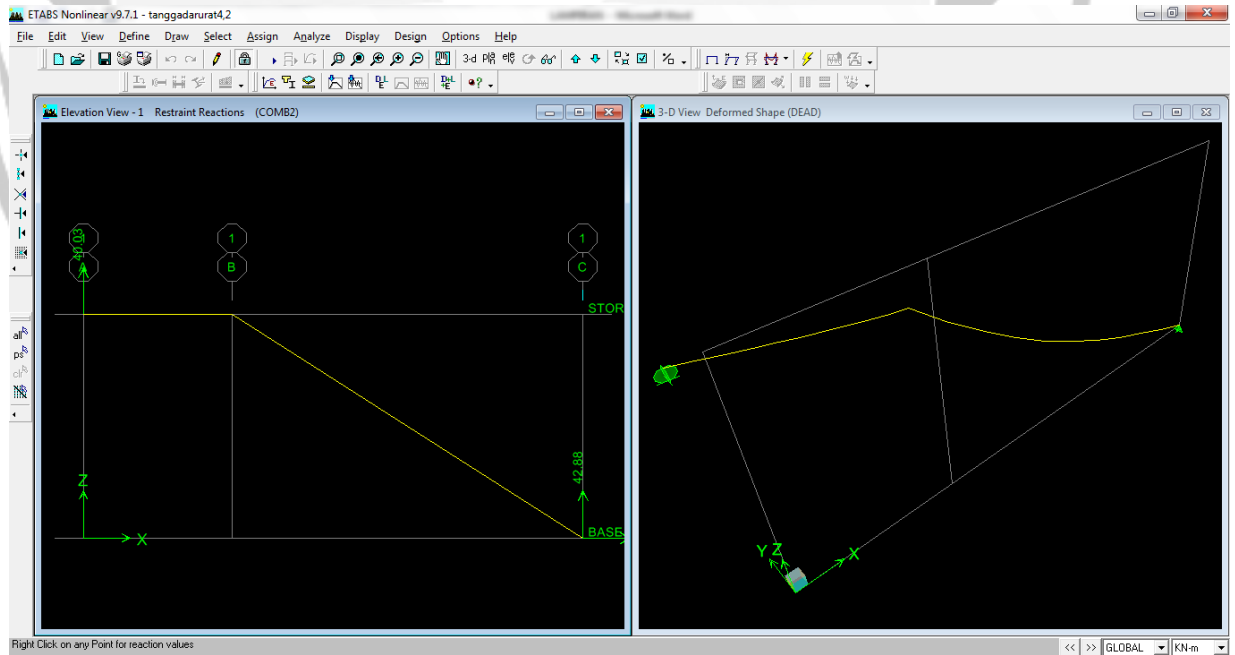
Lampiran 18 Detail Penulangan Balok Anak B2 (250 x 500)



Lampiran 19 Detail Penulangan Kolom (900 x 900)



Lampiran 20 Reaksi Tumpuan Tangga Utama Tinggi 5,5 m



Lampiran 21 Reaksi Tumpuan Tangga Darurat Tinggi 4,2 m

Story	Brace	Load	Loc	P	V2	V3	T	M2	M3
STORY1	D1	COMB1	0	-17.1	-27.99	0	0	0	0
STORY1	D1	COMB1	2.637	-4.36	-7.13	0	0	0	46.299
STORY1	D1	COMB1	5.274	8.39	13.73	0	0	0	37.603
STORY1	D1	COMB2	0	-28.8	-47.13	0	0	0	0
STORY1	D1	COMB2	2.637	-7.34	-12.01	0	0	0	77.966
STORY1	D1	COMB2	5.274	14.13	23.11	0	0	0	63.321

Lampiran 22 *Output* ETABS Tangga Utama Tinggi 5,5 m

Story	Brace	Load	Loc	P	V2	V3	T	M2	M3
STORY1	D1	COMB1	0	-13.67	-21.48	0	0	0	0
STORY1	D1	COMB1	1.956	-3.94	-6.19	0	0	0	27.056
STORY1	D1	COMB1	3.912	5.8	9.11	0	0	0	24.199
STORY1	D1	COMB2	0	-23.02	-36.17	0	0	0	0
STORY1	D1	COMB2	1.956	-6.63	-10.42	0	0	0	45.56
STORY1	D1	COMB2	3.912	9.76	15.34	0	0	0	40.749

Lampiran 23 *Output* ETABS Tangga Darurat Tinggi 4,2 m

Story	Beam	Load	Loc	P	V2	V3	T	M2	M3
LT1	B32	COMB19 MAX	0.45	0	125.88	0	47.879	0	513.842
LT1	B32	COMB19 MAX	0.9	0	129.8	0	47.879	0	456.368
LT1	B32	COMB19 MAX	1.35	0	135.02	0	47.879	0	396.839
LT1	B32	COMB19 MAX	1.8	0	141.56	0	47.879	0	338.72
LT1	B32	COMB19 MAX	2.25	0	148.1	0	47.879	0	312.253
LT1	B32	COMB19 MAX	2.7	0	153.32	0	47.879	0	278.293
LT1	B32	COMB19 MAX	3.15	0	157.24	0	47.879	0	238.913
LT1	B32	COMB19 MAX	3.6	0	159.84	0	47.879	0	235.772
LT1	B32	COMB19 MAX	3.6	0	281.89	0	48.201	0	237.487
LT1	B32	COMB19 MAX	4.05	0	287.68	0	48.201	0	253.89
LT1	B32	COMB19 MAX	4.5	0	297.85	0	48.201	0	291.626
LT1	B32	COMB19 MAX	4.95	0	312.38	0	48.201	0	323.839
LT1	B32	COMB19 MAX	5.4	0	331.29	0	48.201	0	348.544
LT1	B32	COMB19 MAX	5.85	0	350.2	0	48.201	0	404.053
LT1	B32	COMB19 MAX	6.3	0	364.73	0	48.201	0	461.847
LT1	B32	COMB19 MAX	6.75	0	374.9	0	48.201	0	517.588
LT1	B32	COMB19 MIN	0.45	0	-377.76	0	-47.902	0	-810.294
LT1	B32	COMB19 MIN	0.9	0	-367.59	0	-47.902	0	-642.429
LT1	B32	COMB19 MIN	1.35	0	-353.06	0	-47.902	0	-480.124
LT1	B32	COMB19 MIN	1.8	0	-334.15	0	-47.902	0	-329.4
LT1	B32	COMB19 MIN	2.25	0	-315.25	0	-47.902	0	-222.204
LT1	B32	COMB19 MIN	2.7	0	-300.71	0	-47.902	0	-117.686
LT1	B32	COMB19 MIN	3.15	0	-290.55	0	-47.902	0	-15.363
LT1	B32	COMB19 MIN	3.6	0	-284.75	0	-47.902	0	60.126
LT1	B32	COMB19 MIN	3.6	0	-156	0	-48.806	0	70.94
LT1	B32	COMB19 MIN	4.05	0	-153.4	0	-48.806	0	-28.643
LT1	B32	COMB19 MIN	4.5	0	-149.48	0	-48.806	0	-129.762
LT1	B32	COMB19 MIN	4.95	0	-144.26	0	-48.806	0	-232.972
LT1	B32	COMB19 MIN	5.4	0	-137.72	0	-48.806	0	-338.846
LT1	B32	COMB19 MIN	5.85	0	-131.18	0	-48.806	0	-487.399
LT1	B32	COMB19 MIN	6.3	0	-125.96	0	-48.806	0	-648.409
LT1	B32	COMB19 MIN	6.75	0	-122.04	0	-48.806	0	-814.979

Lampiran 24 Output ETABS Balok Induk B1 (350 x 700)

Story	Beam	Load	Loc	P	V2	V3	T	M2	M3
LT2	B54	COMB19 MAX	0	0	-28.63	0	0.836	0	-4.077
LT2	B54	COMB19 MAX	0.45	0	-26.99	0	0.836	0	8.488
LT2	B54	COMB19 MAX	0.9	0	-24.02	0	0.836	0	20.016
LT2	B54	COMB19 MAX	1.35	0	-19.75	0	0.836	0	29.917
LT2	B54	COMB19 MAX	1.8	0	-14.17	0	0.836	0	61.191
LT2	B54	COMB19 MAX	2.25	0	-8.58	0	0.836	0	85.277
LT2	B54	COMB19 MAX	2.7	0	-4.31	0	0.836	0	103.159
LT2	B54	COMB19 MAX	3.15	0	-1.35	0	0.836	0	122.517
LT2	B54	COMB19 MAX	3.6	0	0.3	0	0.836	0	141.243
LT2	B54	COMB19 MAX	3.6	0	53.64	0	0.836	0	141.243
LT2	B54	COMB19 MAX	4.05	0	57.48	0	0.836	0	120.585
LT2	B54	COMB19 MAX	4.5	0	65.29	0	0.836	0	99.63
LT2	B54	COMB19 MAX	4.95	0	77.09	0	0.836	0	79.941
LT2	B54	COMB19 MAX	5.4	0	92.86	0	0.836	0	54.048
LT2	B54	COMB19 MAX	5.85	0	108.64	0	0.836	0	26.431
LT2	B54	COMB19 MAX	6.3	0	120.44	0	0.836	0	15.817
LT2	B54	COMB19 MAX	6.75	0	128.25	0	0.836	0	3.576
LT2	B54	COMB19 MAX	7.2	0	132.08	0	0.836	0	-9.702
LT2	B54	COMB19 MIN	0	0	-128.12	0	-0.983	0	-193.01
LT2	B54	COMB19 MIN	0.45	0	-124.29	0	-0.983	0	-136.071
LT2	B54	COMB19 MIN	0.9	0	-116.47	0	-0.983	0	-81.752
LT2	B54	COMB19 MIN	1.35	0	-104.68	0	-0.983	0	-31.846
LT2	B54	COMB19 MIN	1.8	0	-88.9	0	-0.983	0	-11.735
LT2	B54	COMB19 MIN	2.25	0	-73.12	0	-0.983	0	5.554
LT2	B54	COMB19 MIN	2.7	0	-61.33	0	-0.983	0	20.625
LT2	B54	COMB19 MIN	3.15	0	-53.51	0	-0.983	0	34.069
LT2	B54	COMB19 MIN	3.6	0	-49.68	0	-0.983	0	45.768
LT2	B54	COMB19 MIN	3.6	0	1.24	0	-0.983	0	45.768
LT2	B54	COMB19 MIN	4.05	0	2.89	0	-0.983	0	33.313
LT2	B54	COMB19 MIN	4.5	0	5.85	0	-0.983	0	19.201
LT2	B54	COMB19 MIN	4.95	0	10.12	0	-0.983	0	3.461
LT2	B54	COMB19 MIN	5.4	0	15.7	0	-0.983	0	-14.498
LT2	B54	COMB19 MIN	5.85	0	21.29	0	-0.983	0	-40.743
LT2	B54	COMB19 MIN	6.3	0	25.56	0	-0.983	0	-92.412
LT2	B54	COMB19 MIN	6.75	0	28.52	0	-0.983	0	-148.493
LT2	B54	COMB19 MIN	7.2	0	30.17	0	-0.983	0	-207.196

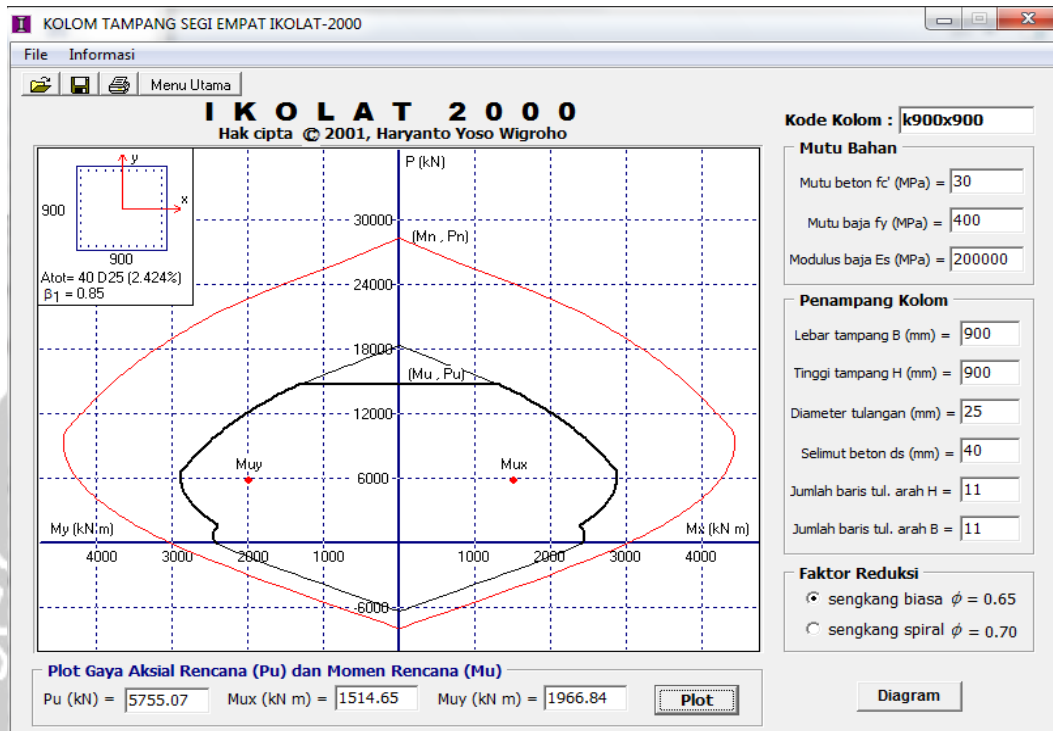
Lampiran 25 Output ETABS Balok Anak B2 (250 x 500)

Story	Column	Load	Loc	P	V2	V3	T	M2	M3
ATAP	C23	COMB19 MAX	0	-201.75	108.03	84.06	3.302	159.525	200.34
ATAP	C23	COMB19 MAX	1.75	-194.02	108.03	84.06	3.302	14.324	12.275
ATAP	C23	COMB19 MAX	3.5	-186.29	108.03	84.06	3.302	159.49	192.26
ATAP	C23	COMB19 MIN	0	-417.31	-117.18	-96.46	-3.371	-178.191	-218.01
ATAP	C23	COMB19 MIN	1.75	-402.99	-117.18	-96.46	-3.371	-11.296	-13.923
ATAP	C23	COMB19 MIN	3.5	-388.67	-117.18	-96.46	-3.371	-134.767	-177.887
LT8	C23	COMB19 MAX	0	-477.27	235.07	157.84	8.083	39.163	57.552
LT8	C23	COMB19 MAX	0.7	-472.82	235.07	157.84	8.083	157.458	227.233
LT8	C23	COMB19 MAX	1.4	-468.37	235.07	157.84	8.083	277.437	398.58
LT8	C23	COMB19 MIN	0	-1261.51	-245.08	-171.59	-8.31	-40.692	-57.904
LT8	C23	COMB19 MIN	0.7	-1254.25	-245.08	-171.59	-8.31	-149.356	-220.577
LT8	C23	COMB19 MIN	1.4	-1246.99	-245.08	-171.59	-8.31	-259.704	-384.915
B7	C23	COMB19 MAX	0	-490.63	239.36	162.09	8.083	301.912	447.262
B7	C23	COMB19 MAX	1.05	-483.95	239.36	162.09	8.083	131.911	196.226
B7	C23	COMB19 MAX	2.1	-477.27	239.36	162.09	8.083	39.163	57.552
B7	C23	COMB19 MIN	0	-1283.28	-249.37	-175.84	-8.31	-332.333	-468.639
B7	C23	COMB19 MIN	1.05	-1272.39	-249.37	-175.84	-8.31	-147.886	-207.09
B7	C23	COMB19 MIN	2.1	-1261.51	-249.37	-175.84	-8.31	-40.692	-57.904
LT7	C23	COMB19 MAX	0	-760.18	333.02	226.62	10.806	35.312	42.353
LT7	C23	COMB19 MAX	0.7	-755.73	333.02	226.62	10.806	202.422	279.455
LT7	C23	COMB19 MAX	1.4	-751.28	333.02	226.62	10.806	371.1	519.551
LT7	C23	COMB19 MIN	0	-1991.15	-343.37	-241.2	-11.084	-33.382	-43.148
LT7	C23	COMB19 MIN	0.7	-1983.89	-343.37	-241.2	-11.084	-190.287	-273.005
LT7	C23	COMB19 MIN	1.4	-1976.64	-343.37	-241.2	-11.084	-348.761	-505.859
B6	C23	COMB19 MAX	0	-773.54	336.74	230.35	10.806	452.506	667.976
B6	C23	COMB19 MAX	1.05	-766.86	336.74	230.35	10.806	210.809	314.647
B6	C23	COMB19 MAX	2.1	-760.18	336.74	230.35	10.806	35.312	42.353
B6	C23	COMB19 MIN	0	-2012.92	-347.09	-244.92	-11.084	-481.188	-690.5
B6	C23	COMB19 MIN	1.05	-2002.04	-347.09	-244.92	-11.084	-224.184	-326.306
B6	C23	COMB19 MIN	2.1	-1991.15	-347.09	-244.92	-11.084	-33.382	-43.148
LT6	C23	COMB19 MAX	0	-1054.55	389.58	274.14	13.116	46.377	64.967
LT6	C23	COMB19 MAX	0.7	-1050.1	389.58	274.14	13.116	241.321	335.809
LT6	C23	COMB19 MAX	1.4	-1045.64	389.58	274.14	13.116	438.945	610.785
LT6	C23	COMB19 MIN	0	-2650.84	-393.48	-282.74	-13.374	-43.516	-62.121
LT6	C23	COMB19 MIN	0.7	-2643.58	-393.48	-282.74	-13.374	-232.434	-330.234
LT6	C23	COMB19 MIN	1.4	-2636.32	-393.48	-282.74	-13.374	-424.032	-602.48
B5	C23	COMB19 MAX	0	-1067.9	392.7	277.28	13.116	542.587	768.465
B5	C23	COMB19 MAX	1.05	-1061.22	392.7	277.28	13.116	251.762	356.627

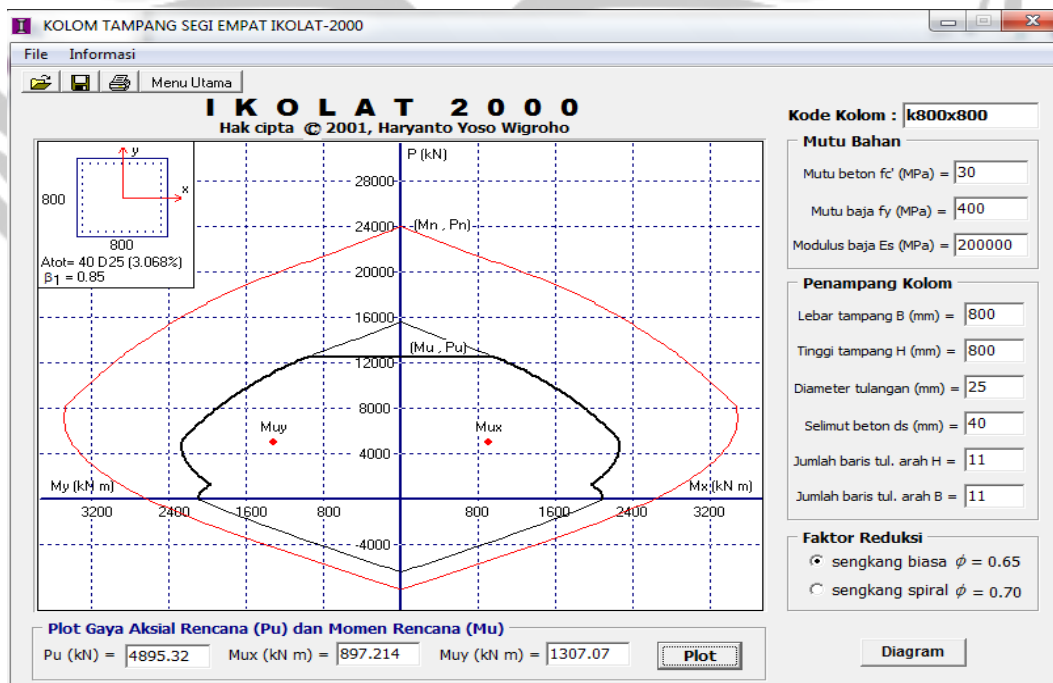
B5	C23	COMB19 MAX	2.1	-1054.55	392.7	277.28	13.116	46.377	64.967
B5	C23	COMB19 MIN	0	-2672.61	-396.6	-285.89	-13.374	-557.802	-773.808
B5	C23	COMB19 MIN	1.05	-2661.72	-396.6	-285.89	-13.374	-257.939	-357.875
B5	C23	COMB19 MIN	2.1	-2650.84	-396.6	-285.89	-13.374	-43.516	-62.121
LT5	C23	COMB19 MAX	0	-1339.02	549.04	375	37.035	95.777	124.144
LT5	C23	COMB19 MAX	0.7	-1331.11	549.04	375	37.035	357.185	492.29
LT5	C23	COMB19 MAX	1.4	-1323.2	549.04	375	37.035	624.698	870.331
LT5	C23	COMB19 MIN	0	-3371.37	-542.29	-383.68	-37.884	-93.98	-130.291
LT5	C23	COMB19 MIN	0.7	-3358.47	-542.29	-383.68	-37.884	-349.315	-503.162
LT5	C23	COMB19 MIN	1.4	-3345.57	-542.29	-383.68	-37.884	-610.757	-885.928
B4	C23	COMB19 MAX	0	-1362.76	553.64	379.66	37.035	713.804	1049.261
B4	C23	COMB19 MAX	1.05	-1350.89	553.64	379.66	37.035	316.629	471.65
B4	C23	COMB19 MAX	2.1	-1339.02	553.64	379.66	37.035	95.777	124.144
B4	C23	COMB19 MIN	0	-3410.08	-546.89	-388.34	-37.884	-730.224	-1041.232
B4	C23	COMB19 MIN	1.05	-3390.73	-546.89	-388.34	-37.884	-323.94	-470.709
B4	C23	COMB19 MIN	2.1	-3371.37	-546.89	-388.34	-37.884	-93.98	-130.291
LT4	C23	COMB19 MAX	0	-1633.86	563.09	402.89	40.303	72.56	80.041
LT4	C23	COMB19 MAX	0.7	-1625.94	563.09	402.89	40.303	345.85	449.108
LT4	C23	COMB19 MAX	1.4	-1618.03	563.09	402.89	40.303	633.292	846.144
LT4	C23	COMB19 MIN	0	-4068.89	-570.38	-412.6	-41.35	-76.371	-88.851
LT4	C23	COMB19 MIN	0.7	-4055.99	-570.38	-412.6	-41.35	-342.865	-452.818
LT4	C23	COMB19 MIN	1.4	-4043.08	-570.38	-412.6	-41.35	-623.512	-844.753
B3	C23	COMB19 MAX	0	-1657.6	566.75	406.65	40.303	797.147	1137.787
B3	C23	COMB19 MAX	1.05	-1645.73	566.75	406.65	40.303	371.635	544.727
B3	C23	COMB19 MAX	2.1	-1633.86	566.75	406.65	40.303	72.56	80.041
B3	C23	COMB19 MIN	0	-4107.6	-574.03	-416.36	-41.35	-821.345	-1161.9
B3	C23	COMB19 MIN	1.05	-4088.24	-574.03	-416.36	-41.35	-385.639	-561.189
B3	C23	COMB19 MIN	2.1	-4068.89	-574.03	-416.36	-41.35	-76.371	-88.851
LT3	C23	COMB19 MAX	0	-1940.83	613.31	441.01	42.58	67.054	58.415
LT3	C23	COMB19 MAX	0.7	-1932.92	613.31	441.01	42.58	366.074	446.853
LT3	C23	COMB19 MAX	1.4	-1925	613.31	441.01	42.58	677.49	880.887
LT3	C23	COMB19 MIN	0	-4856.61	-622.72	-446.45	-43.684	-60.727	-58.826
LT3	C23	COMB19 MIN	0.7	-4843.71	-622.72	-446.45	-43.684	-355.935	-440.677
LT3	C23	COMB19 MIN	1.4	-4830.81	-622.72	-446.45	-43.684	-663.538	-868.124
B2	C23	COMB19 MAX	0	-1964.57	615.93	443.74	42.58	892.104	1286.895
B2	C23	COMB19 MAX	1.05	-1952.7	615.93	443.74	42.58	427.8	641.467
B2	C23	COMB19 MAX	2.1	-1940.83	615.93	443.74	42.58	67.054	58.415
B2	C23	COMB19 MIN	0	-4895.32	-625.34	-449.18	-43.684	-897.214	-1307.067
B2	C23	COMB19 MIN	1.05	-4875.97	-625.34	-449.18	-43.684	-427.191	-651.759

B2	C23	COMB19 MIN	2.1	-4856.61	-625.34	-449.18	-43.684	-60.727	-58.826
LT2	C23	COMB19 MAX	0	-2259.97	580.09	466.25	61.648	232.142	357.812
LT2	C23	COMB19 MAX	1.025	-2245.31	580.09	466.25	61.648	248.352	239.641
LT2	C23	COMB19 MAX	2.05	-2230.64	580.09	466.25	61.648	723.469	832.683
LT2	C23	COMB19 MIN	0	-5690.92	-581.18	-464.6	-62.746	-235.872	-366.949
LT2	C23	COMB19 MIN	1.025	-5667.01	-581.18	-464.6	-62.746	-253.775	-247.655
LT2	C23	COMB19 MIN	2.05	-5643.09	-581.18	-464.6	-62.746	-730.584	-839.575
B1	C23	COMB19 MAX	0	-2299.32	582.16	468.44	61.648	1514.165	1954.689
B1	C23	COMB19 MAX	1.375	-2279.64	582.16	468.44	61.648	870.663	1155.488
B1	C23	COMB19 MAX	2.75	-2259.97	582.16	468.44	61.648	232.142	357.812
B1	C23	COMB19 MIN	0	-5755.07	-583.25	-466.79	-62.746	-1513.354	-1966.837
B1	C23	COMB19 MIN	1.375	-5722.99	-583.25	-466.79	-62.746	-872.123	-1166.13
B1	C23	COMB19 MIN	2.75	-5690.92	-583.25	-466.79	-62.746	-235.872	-366.949
LT1	C23	COMB19 MAX	0	-2622.56	508.23	473.06	27.552	1876.433	2145.686
LT1	C23	COMB19 MAX	1.55	-2600.38	508.23	473.06	27.552	1143.624	1358.254
LT1	C23	COMB19 MAX	3.1	-2578.2	508.23	473.06	27.552	411.255	571.745
LT1	C23	COMB19 MIN	0	-6695.64	-511.1	-471.01	-27.83	-1877.013	-2166.558
LT1	C23	COMB19 MIN	1.55	-6659.48	-511.1	-471.01	-27.83	-1147.385	-1374.668
LT1	C23	COMB19 MIN	3.1	-6623.32	-511.1	-471.01	-27.83	-418.196	-583.701

Lampiran 26 Output ETABS Kolom (900 x 900)



Lampiran 27 Diagram Interaksi Kolom Lantai 2 C23 (900 x 900)



Lampiran 28 Diagram Interaksi Kolom Lantai 3 C23 (800 x 800)

fc30fy400u07

