

BAB VI

KESIMPULAN DAN SARAN

6.1. Kesimpulan

Setelah melakukan analisis dan perancangan pada struktur gedung Graha Indramas Jakarta ini penulis dapat mengambil beberapa kesimpulan sebagai berikut.

1. Dalam perencanaan dimensi balok diperoleh :

a) Balok induk sebesar 700/1000 (mm) untuk bentang 9 m sampai 12 m.

Balok 300/500 (mm) untuk bentang 6 m sampai 8 m.

Untuk tulangan lentur yang terpasang berdiameter 25 mm dengan jumlah tulangan bervariasi, rasio tulangan (ρ) berkisar antara = 0,0035 – 0,02212, sedangkan untuk tulangan geser yang terpasang 2P10 dan 3P10 dengan jarak bervariasi antara 50 mm sampai 250 mm.

2. Dalam perencanaan dimensi kolom diperoleh dimensi 1000/1000 (mm) untuk kolom lantai ground sampai lantai 1, 900/900 (mm) untuk kolom lantai 2 sampai lantai 3, 800/800 (mm) untuk kolom lantai 4 sampai lantai 5, 700/700 (mm) untuk kolom lantai 6 sampai lantai 8, 600/600 (mm) untuk kolom lantai 9 sampai lantai atap. Untuk tulangan kolom yang terpasang diameter 25 mm dengan jumlah tulangan bervariasi. rasio tulangan (ρ) berkisar antara = 0,0100 – 0,0186. sedangkan untuk tulangan geser yang terpasang antara lain 4P10 dengan jarak 50 mm.

3. Pelat lantai memakai sistem pelat dua arah untuk $l_y/l_x \leq 2$ dengan ketebalan pelat lantai 140 mm. Perencanaan penulangan pelat lantai diperoleh tulangan polos diameter 8 mm, jarak antar tulangan bervariasi antara 100 mm sampai 150 mm dengan rasio tulangan (ρ) berkisar antara = 0,00212 – 0,040318.
4. Dalam perencanaan dinding penahan tanah, dimensi yang digunakan untuk lebar dinding penahan tanah adalah 2,5 m dengan ketebalan pelat dasar dinding penahan tanah adalah 0,5 m. Tinggi dinding penahan tanah yang direncanakan adalah 4,5 m. Untuk penulangan dinding digunakan tulangan utama diameter 25 mm dengan jarak 150 mm dan tulangan bagi diameter 12 mm dengan jarak 150 mm. Sedangkan untuk pelat dasar dinding penahan tanah digunakan tulangan utama diameter 16 mm dengan jarak 125 mm dan tulangan bagi diameter 12 mm dengan jarak 250 mm.

6.2. Saran

Sebagai penutup dari penulisan tugas akhir ini penulis hendak menyampaikan sedikit saran yang mungkin dapat bermanfaat bagi penulisan tugas akhir yang serupa.

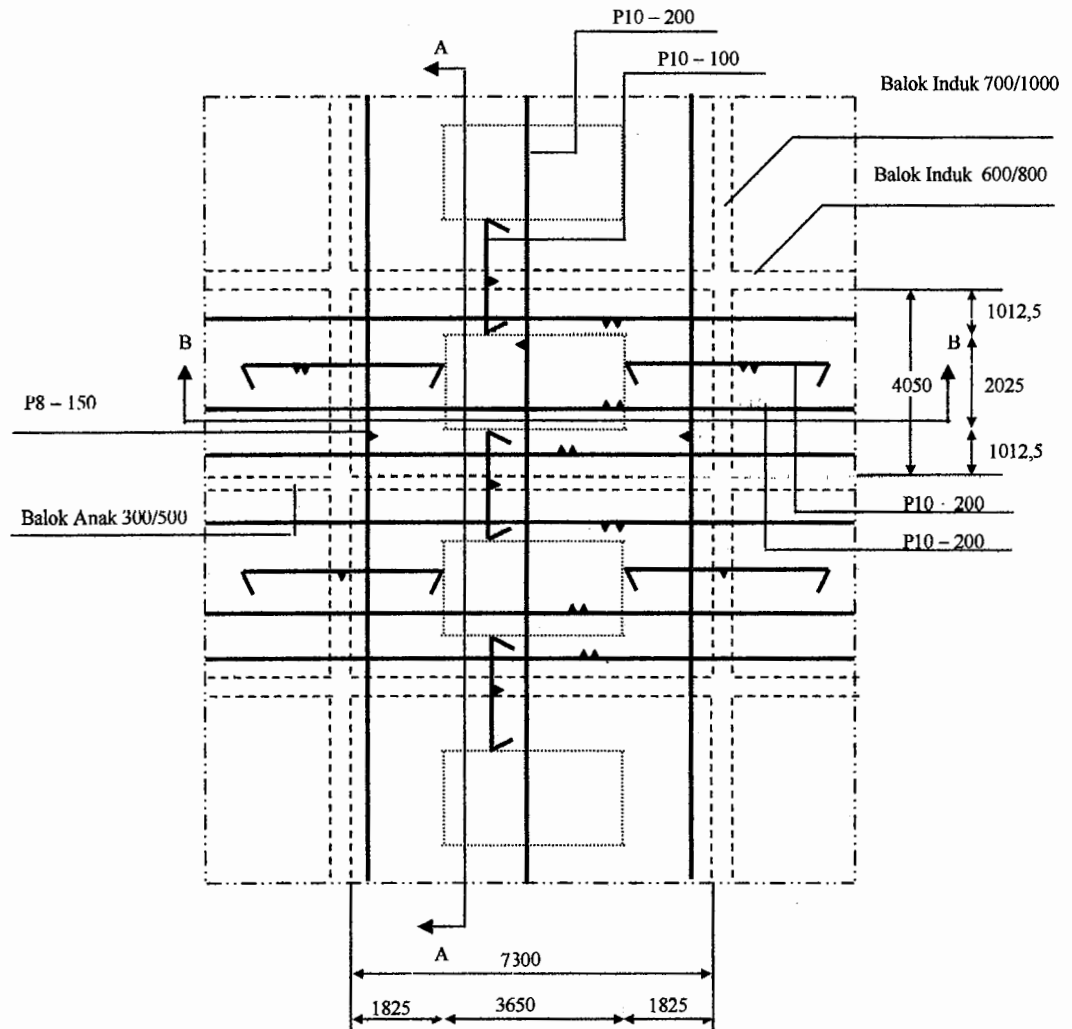
1. Sebelum perencanaan struktur sebaiknya dilakukan pendesainan awal, sehingga tidak terjadi penentuan elemen struktur yang berulang-ulang, dikarenakan dimensi yang digunakan tidak memenuhi kebutuhan struktur, hal ini akan menghabiskan banyak waktu.
2. Dalam merencanakan suatu struktur hendaknya mempertimbangkan keadaan pelaksanaan dilapangan dan kemudahan mencari bahan yang akan digunakan, sehingga pelaksanaan pekerjaan dapat berlangsung baik.

3. Untuk kemudahan dalam analisis struktur terutama dalam pembuatan model struktur gedung dan perhitungan gaya-gaya yang terjadi pada struktur, menurut pengalaman penulis akan lebih mudah memakai bantuan *software* ETABS *non linier*
4. Faktor ketelitian dan pembulatan angka (berkaitan dengan satuan) pada saat memasukan *input* kedalam *software* sangat berpengaruh pada keakuratan proses perancangan struktur selanjutnya.

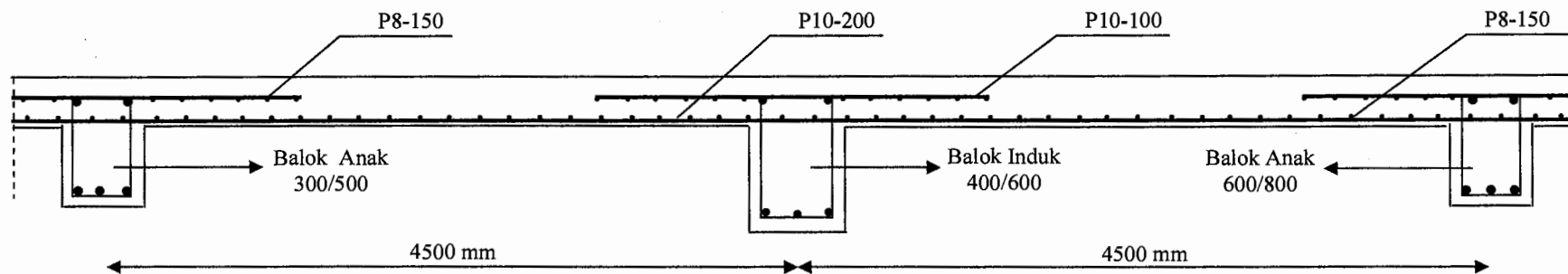
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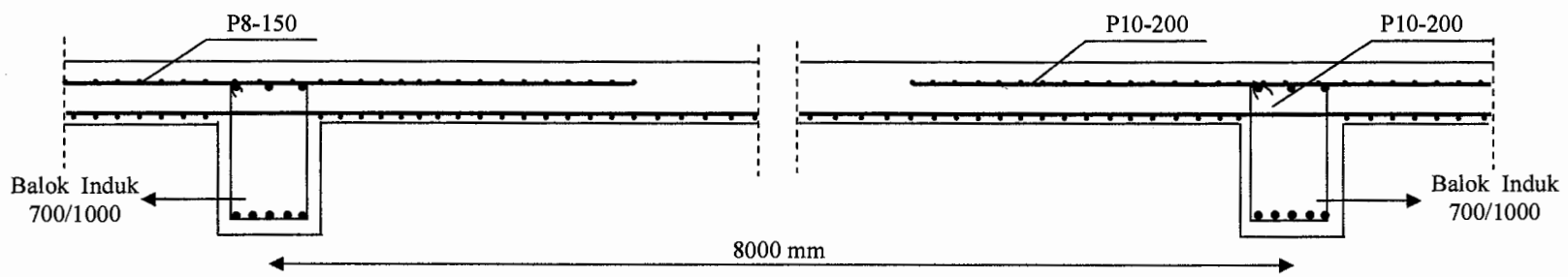
LAMPIRAN



GAMBAR PENULANGAN PELAT LANTAI

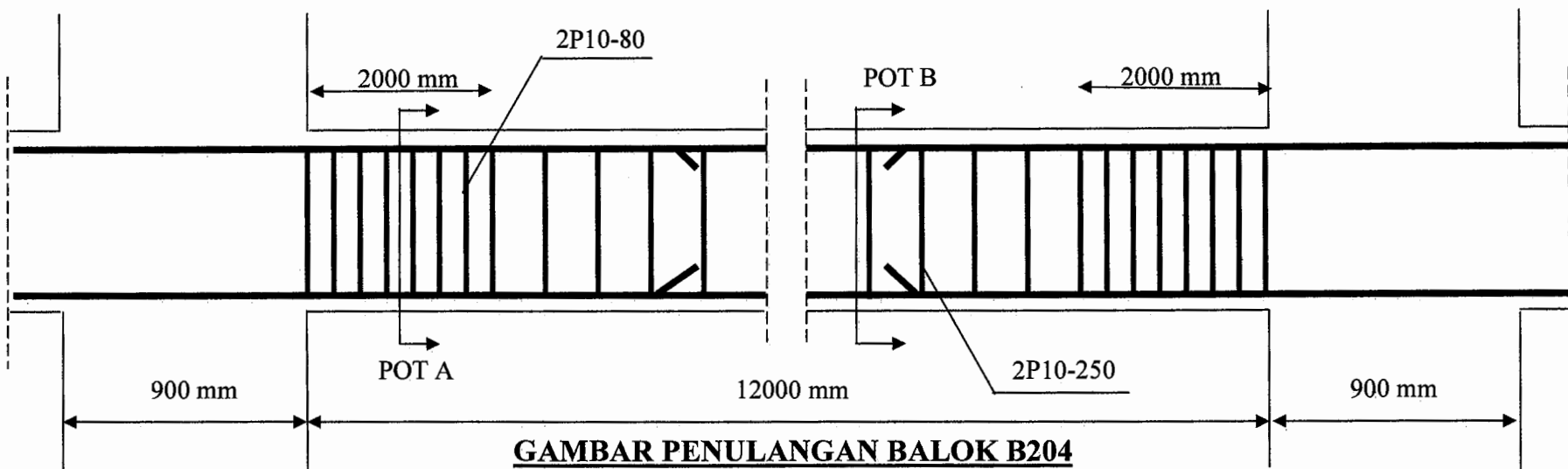


POT A-A

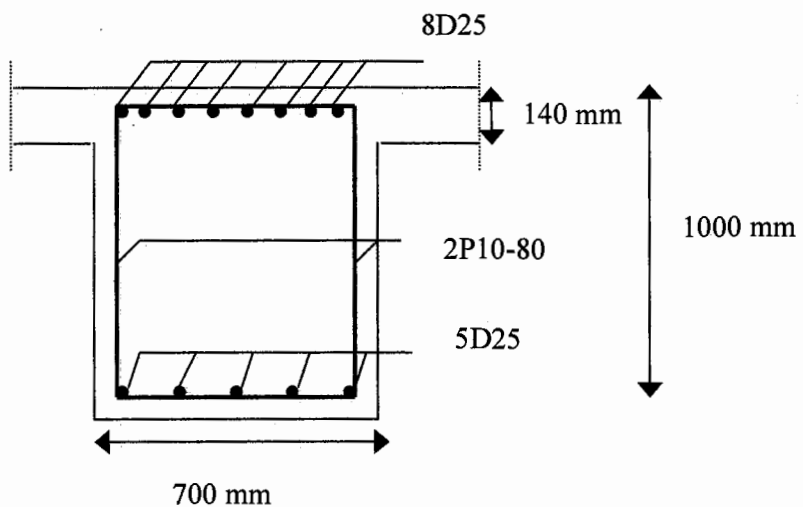


POT B-B

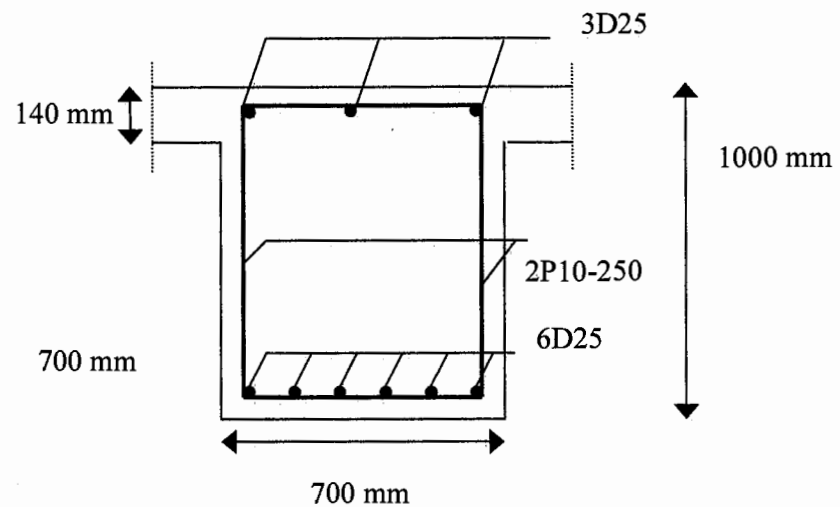
GAMBAR DETAIL PELAT LANTAI



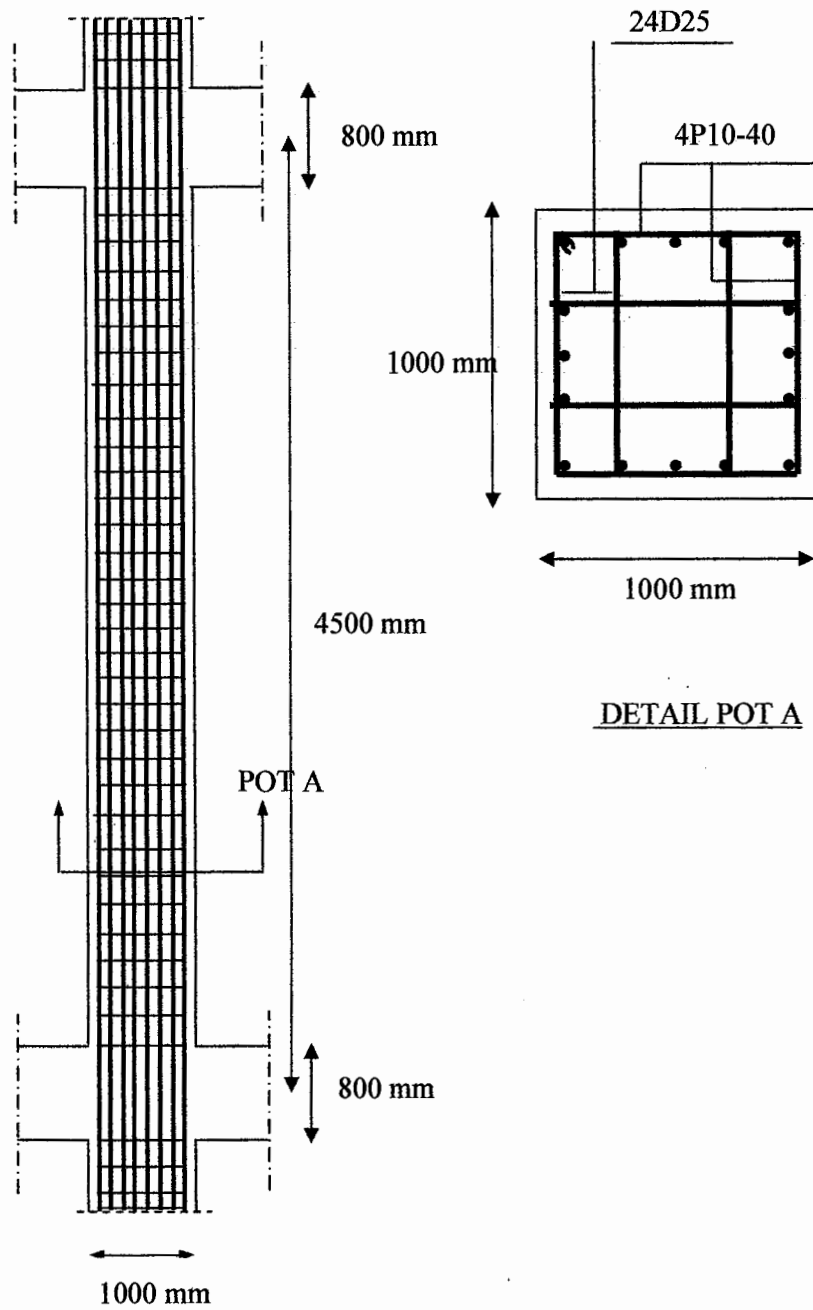
GAMBAR PENULANGAN BALOK B204



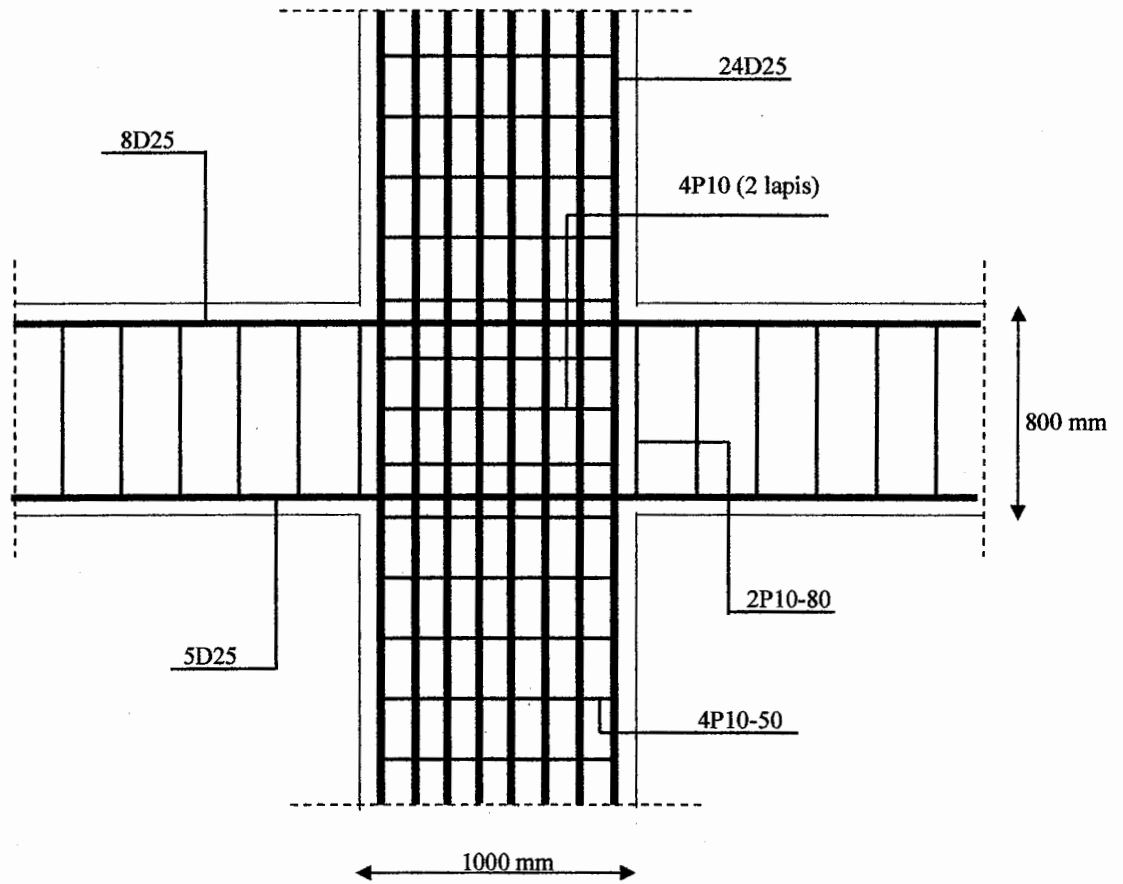
DETAIL POT A



DETAIL POT B



GAMBAR PENULANGAN KOLOM C68 LANTAI 2



GAMBAR PERTEMUAN BALOK DAN KOLOM
C68 LANTAI 1

Tabel 5.2. Momen Rencana Balok Arah X

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	D+1,6ML+0+1ML+1Ex	+1ML-1Ex	+1ML+0,3E	+1ML-0,3E	M+	Mlap	M-	
ROOF	B32	Tu,ki	-73.256	-36.94	0.051	25.358	0.03	-146.981	-99.4772	-150.211	-117.207	-132.482	75.106		
		Lap	50.371	7.541	2.252	8.714	0.005	73.6368	76.7017	59.2707	70.6054	65.367		76.70	
		Tu,ka	-23.469	24.156	-3.905	19.382	0.026	8.5343	15.383	-23.3966	1.8338	-9.8474			-150.21
STORY10	B32	Tu,ki	-141.16	-60.04	-1.778	62.182	0.304	-266.343	-167.158	-291.705	-210.473	-248.39	145.85		
		Lap	50.573	9.717	-0.095	10.359	0.591	76.1873	80.9409	59.8683	74.1033	66.7059		80.94	
		Tu,ka	8.946	23.83	1.682	47.083	0.373	49.7042	81.7601	-12.6297	49.0631	20.0673			-291.7
STORY9	B32	Tu,ki	-124.54	-55.2	-1.051	100.302	0.454	-238.298	-104.213	-305.089	-174.107	-235.196	152.54		
		Lap	53.066	10.636	0.004	15.31	0.864	80.6988	89.8844	58.746	79.7722	68.8582		89.88	
		Tu,ka	-3.619	20.556	1.109	76.158	0.554	29.1013	92.5374	-60.111	39.6146	-7.1882			-305.09
ROOF	B33	Tu,ki	-98.609	-14.34	-3.674	40.942	0.036	-143.117	-91.721	-173.627	-120.355	-144.992	86.813		
		Lap	103.13	21.115	4.089	5.365	0.002	159.5833	150.2354	139.5042	146.4813	143.2583		159.6	
		Tu,ka	-83.873	-0.089	-5.146	31.701	0.034	-103.363	-69.0254	-132.448	-91.1923	-110.281			-173.63
STORY10	B33	Tu,ki	-134.35	-41.29	-0.022	73.572	0.035	-227.284	-128.919	-276.084	-180.394	-224.608	138.04		
		Lap	112.21	39.082	0.138	3.248	0.022	197.2546	176.991	170.4818	174.7328	172.74		197.3	
		Tu,ka	-91.733	-22.2	0.298	68.996	0.033	-145.457	-63.2777	-201.29	-111.552	-153.015			-276.08
STORY9	B33	Tu,ki	-132.89	-40.58	0	97.831	0.051	-224.398	-102.203	-297.895	-170.649	-229.449	148.95		
		Lap	111.59	38.806	0.139	2.534	0.03	196.0635	175.2534	170.1674	173.5006	171.9202		196.1	
		Tu,ka	-94.437	-23.46	0.279	94.848	0.028	-150.724	-41.93	-231.643	-108.304	-165.269			-297.9
ROOF	B34	Tu,ki	-105.08	-10.47	-5.212	24.822	0.045	-145.456	-111.733	-161.404	-129.077	-144.06	92.927		
		Lap	82.948	14.299	3.398	1.262	0.009	124.115	115.1013	112.5719	114.2242	113.449		124.1	
		Tu,ka	-117.76	-17.59	-4.99	26.938	0.027	-171.959	-131.961	-185.853	-150.799	-167.016			-185.85
STORY10	B34	Tu,ki	-127.55	-39	0.125	64.005	0.028	-215.388	-128.039	-256.066	-172.823	-211.282	133.76		
		Lap	94.293	30.59	0.036	0.483	0.005	162.1136	144.2261	143.2571	143.8915	143.5917		162.1	
		Tu,ka	-134.37	-41.48	-0.053	64.793	0.018	-227.636	-137.923	-267.52	-183.266	-222.178			-267.52
STORY9	B34	Tu,ki	-127.52	-38.79	0.077	90.619	0.027	-215.04	-101.179	-282.433	-164.594	-219.019	147.32		
		Lap	94.196	30.587	0.025	0.505	0.005	161.9869	144.1287	143.1157	143.7787	143.4657		162	
		Tu,ka	-134.59	-41.69	-0.028	91.428	0.016	-228.236	-111.773	-294.639	-175.761	-230.65			-294.64
ROOF	B35	Tu,ki	-117.76	-17.59	-4.99	26.938	0.027	-171.959	-131.961	-185.853	-150.799	-167.016	92.927		
		Lap	82.948	14.299	3.398	1.262	0.009	124.115	115.1013	112.5719	114.2242	113.449		124.1	
		Tu,ka	-105.08	-10.47	-5.212	24.822	0.045	-145.456	-111.733	-161.404	-129.077	-144.06			-185.85
STORY10	B35	Tu,ki	-134.37	-41.48	-0.053	64.793	0.018	-227.636	-137.923	-267.52	-183.266	-222.178	133.76		
		Lap	94.293	30.59	0.036	0.483	0.005	162.1136	144.2261	143.2571	143.8915	143.5917		162.1	
		Tu,ka	-127.55	-39	0.125	64.005	0.028	-215.388	-128.039	-256.066	-172.823	-211.282			-267.52

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	D+1,6ML+0	+1ML+1Ex	+1ML-1Ex	+1ML+0,3E	+1ML-0,3E	M+	Mlap	M-
STORY9	B35	Tu,ki	-134.59	-41.69	-0.028	91.428	0.016	-228.236	-111.773	-294.639	-175.761	-230.65	147.32		
		Lap	94.196	30.587	0.025	0.505	0.005	161.9869	144.1287	143.1157	143.7787	143.4657		162	
		Tu,ka	-127.52	-38.79	0.077	90.619	0.027	-215.04	-101.179	-282.433	-164.594	-219.019			-294.64
ROOF	B36	Tu,ki	-83.873	-0.089	-5.146	31.701	0.034	-103.363	-69.0254	-132.448	-91.1923	-110.281	86.813		
		Lap	103.13	21.115	4.089	5.365	0.002	159.5833	150.2354	139.5042	146.4813	143.2583		159.6	
		Tu,ka	-98.609	-14.34	-3.674	40.942	0.036	-143.117	-91.721	-173.627	-120.355	-144.992			-173.63
STORY10	B36	Tu,ki	-91.733	-22.2	0.298	68.996	0.034	-145.457	-63.2774	-201.29	-111.551	-153.016	138.04		
		Lap	112.21	39.082	0.138	3.248	0.022	197.2546	176.991	170.4818	174.7328	172.74		197.3	
		Tu,ka	-134.35	-41.29	-0.022	73.572	0.035	-227.284	-128.919	-276.084	-180.394	-224.608			-276.08
STORY9	B36	Tu,ki	-94.437	-23.46	0.279	94.848	0.028	-150.724	-41.93	-231.643	-108.304	-165.269	148.95		
		Lap	111.59	38.806	0.139	2.534	0.03	196.0635	175.2534	170.1674	173.5006	171.9202		196.1	
		Tu,ka	-132.89	-40.58	0	97.831	0.051	-224.398	-102.203	-297.895	-170.649	-229.449			-297.9
ROOF	B37	Tu,ki	-23.469	24.156	-3.905	19.382	0.026	8.5343	15.383	-23.3966	1.8338	-9.8474	75.106		
		Lap	50.371	7.541	2.252	8.714	0.005	73.6368	76.7017	59.2707	70.6054	65.367		76.7	
		Tu,ka	-73.256	-36.94	0.051	25.358	0.03	-146.981	-99.4772	-150.211	-117.207	-132.482			-150.21
STORY10	B37	Tu,ki	8.946	23.83	1.682	47.083	0.373	49.7042	81.7601	-12.6297	49.0631	20.0673	145.85		
		Lap	50.573	9.717	-0.095	10.359	0.591	76.1873	80.9409	59.8683	74.1033	66.7059		80.94	
		Tu,ka	-141.16	-60.04	-1.778	62.182	0.304	-266.343	-167.158	-291.705	-210.473	-248.39			-291.7
STORY9	B37	Tu,ki	-3.619	20.556	1.109	76.158	0.554	29.1013	92.5374	-60.111	39.6146	-7.1882	152.54		
		Lap	53.066	10.636	0.004	15.31	0.864	80.6988	89.8844	58.746	79.7722	68.8582		89.88	
		Tu,ka	-124.54	-55.2	-1.051	100.302	0.453	-238.298	-104.213	-305.089	-174.108	-235.195			-305.09
STORY8	B171	Tu,ki	-138.57	-62.07	-1.004	115.768	0.566	-266.084	-112.405	-344.281	-193.047	-263.639	172.14		
		Lap	51.34	10.328	-0.026	14.148	1.06	78.1198	86.402	57.47	77.2404	66.6316		86.4	
		Tu,ka	14.941	28.849	1.007	94.205	0.684	64.5911	141.1884	-47.632	75.7237	17.8327			-344.28
STORY7	B171	Tu,ki	-148.93	-66.62	-0.92	129.073	0.679	-285.769	-116.061	-374.614	-205.937	-284.738	187.31		
		Lap	50.805	10.391	-0.027	12.766	1.206	77.5781	84.4848	58.2292	76.3928	66.3212		93.65	
		Tu,ka	24.818	33.792	0.918	110.817	0.808	84.3078	174.633	-47.4858	97.6267	29.5205			-374.61
STORY6	B171	Tu,ki	-130.7	-58.56	-0.717	150.606	0.74	-250.889	-64.566	-366.222	-169.472	-261.316	183.11		
		Lap	51.777	10.735	-0.021	14.965	1.332	79.2979	88.232	57.5028	78.6889	67.0459		91.56	
		Tu,ka	7.49	25.965	0.715	129.106	0.887	50.8895	164.3251	-94.4191	74.5718	-4.6658			-366.22
STORY5	B171	Tu,ki	-128.05	-57.1	-0.6	161.009	0.811	-245.329	-49.5141	-372.019	-161.653	-259.88	186.01		
		Lap	51.722	11.007	-0.019	12.789	1.452	79.6681	86.298	59.8488	78.3621	67.7847		93	
		Tu,ka	11.676	26.615	0.596	144.374	0.954	56.8932	185.2864	-104.034	84.8924	-3.64			-372.02

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	D+1,6ML+0	+1ML+1Ex	+1ML-1Ex	+1ML+0,3E	+1ML-0,3E	M+	Mlap	M-
STORY4	B171	Tu,ki	-123.04	-53.97	-0.5	174.236	0.9	-234.239	-27.1032	-376.115	-148.438	-254.78	193.44		
		Lap	52.148	11.366	-0.015	11.705	1.557	80.7557	86.1157	61.7715	79.0121	68.8751		94.03	
		Tu,ka	7.202	24.019	0.497	160.462	1.042	47.3213	193.436	-128.113	81.842	-16.5192			-376.12
STORY3	B171	Tu,ki	-108.83	-46.84	-0.38	186.307	0.951	-205.729	9.1575	-364.027	-120.592	-234.278	195.08		
		Lap	52.695	11.782	-0.011	10.563	1.668	82.0797	86.0794	63.9526	79.8529	70.1791		91.01	
		Tu,ka	0.286	18.952	0.379	175.459	1.08	30.8559	195.0782	-156.488	73.0129	-34.4225			-364.03
STORY2	B171	Tu,ki	-97.528	-40.42	-0.289	200.546	1.036	-181.844	43.4072	-358.306	-96.2498	-218.649	192.36		
		Lap	53.221	12.138	-0.008	9.827	1.769	83.282	86.3609	65.6455	80.7203	71.2861		89.58	
		Tu,ka	-10.65	12.87	0.288	191.922	1.156	7.956	192.3588	-192.179	58.8226	-58.6426			-358.31
STORY1	B171	Tu,ki	-79.042	-30.85	-0.186	206.173	1.06	-144.307	80.7886	-332.193	-62.7905	-188.614	179.02		
		Lap	53.772	12.541	-0.005	8.695	1.848	84.5895	86.3168	67.818	81.5239	72.6109		86.32	
		Tu,ka	-22.182	5.185	0.186	200.104	1.158	-18.2294	179.018	-221.885	39.7558	-82.6226			-332.19
GROUND	B171	Tu,ki	-59.843	-20.97	-0.103	193.061	1.014	-105.407	100.5886	-286.142	-33.8443	-151.709	143.07		
		Lap	54.38	12.77	-0.003	8.213	1.771	85.6865	86.7703	69.2817	82.2609	73.7911		86.77	
		Tu,ka	-41.31	-4.818	0.104	187.217	1.1	-57.2288	133.157	-241.937	2.8751	-111.655			-286.14
STORY8	B172	Tu,ki	-139.35	-44.46	-0.097	116.992	0.039	-238.399	-94.6703	-328.678	-176.537	-246.811	164.34		
		Lap	107.37	36.902	0.093	1.673	0.03	187.9337	167.428	164.064	166.2779	165.2141		187.9	
		Tu,ka	-85.564	-20.18	0.283	114.775	0.035	-134.827	-8.0733	-237.644	-88.3913	-157.326			-328.68
STORY7	B172	Tu,ki	-148.02	-48.57	-0.153	132.222	0.026	-255.415	-93.9646	-358.424	-186.502	-265.887	179.21		
		Lap	103.95	35.303	0.064	1.137	0.028	181.258	161.1896	158.8988	160.4133	159.6751		181.3	
		Tu,ka	-83.73	-19.27	0.282	130.651	0.041	-131.161	10.9213	-250.405	-80.5057	-158.978			-358.42
STORY6	B172	Tu,ki	-142.4	-45.91	-0.129	142.493	0.036	-244.387	-74.2752	-359.283	-173.995	-259.563	179.64		
		Lap	103.55	35.154	0.053	0.809	0.032	180.5317	160.2314	158.5942	159.6875	159.1381		180.5	
		Tu,ka	-90.156	-22.23	0.236	142.055	0.035	-143.644	11.6443	-272.487	-87.7697	-173.073			-359.28
STORY5	B172	Tu,ki	-141.52	-46.61	-0.143	153.106	0.023	-244.467	-63.3179	-369.544	-170.476	-262.386	184.77		
		Lap	100.21	33.538	0.034	0.608	0.028	173.9238	154.4004	153.1676	153.9944	153.5736		173.9	
		Tu,ka	-86.943	-21.56	0.211	153.213	0.04	-138.725	27.3314	-279.119	-79.8897	-171.898			-369.54
STORY4	B172	Tu,ki	-142.48	-47.19	-0.139	162.299	0.02	-246.548	-55.8584	-380.468	-169.454	-266.873	190.23		
		Lap	98.011	32.475	0.022	0.611	0.025	169.5842	150.7067	149.4697	150.2965	149.8799		169.6	
		Tu,ka	-90.373	-23.11	0.184	162.996	0.04	-145.327	31.4534	-294.563	-82.6158	-180.493			-380.47
STORY3	B172	Tu,ki	-135.25	-44.86	-0.118	169.111	0.018	-234.132	-38.0432	-376.276	-156.408	-257.911	188.14		
		Lap	96.042	31.514	0.014	0.693	0.022	165.6798	147.464	146.0648	146.9943	146.5345		165.7	
		Tu,ka	-90.835	-24.17	0.146	170.247	0.036	-147.607	37.0818	-303.434	-82.0659	-184.286			-376.28

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	D+1,6ML+0	+1ML+1Ex	+1ML-1Ex	+1ML+0,3E	+1ML-0,3E	M+	Mlap	M-
STORY2	B172	Tu,ki	-132.35	-43.61	-0.097	176.014	0.021	-228.634	-26.4023	-378.443	-149.597	-255.248	189.22		
		Lap	94.633	30.822	0.008	0.824	0.02	162.8788	145.2116	143.5516	144.6488	144.1144		162.9	
		Tu,ka	-96.558	-26.81	0.114	177.532	0.03	-158.707	34.8624	-320.22	-89.389	-195.968			-378.44
STORY1	B172	Tu,ki	-122.26	-39.87	-0.066	175.569	0.022	-210.53	-11.0026	-362.154	-133.886	-239.271	181.08		
		Lap	93.295	30.171	0.005	0.824	0.016	160.2301	142.9538	141.2962	142.3882	141.8618		160.2	
		Tu,ka	-98.701	-28.67	0.075	177.162	0.02	-164.281	30.0538	-324.282	-93.9456	-200.283			-362.15
GROUND	B172	Tu,ki	-114.9	-36.56	-0.038	157.241	0.036	-196.39	-17.1852	-331.689	-127.229	-221.645	165.84		
		Lap	93.051	30.016	0.002	0.996	0.017	159.6878	142.6783	140.6761	141.993	141.3614		159.7	
		Tu,ka	-106.55	-32.29	0.042	159.211	0.009	-179.506	-0.9383	-319.366	-112.38	-207.924			-331.69
STORY8	B173	Tu,ki	-124	-38.02	0.061	110.499	0.021	-209.596	-76.3121	-297.323	-153.647	-219.988	152.66		
		Lap	93.528	30.283	0.022	0.358	0.005	160.6974	142.8761	142.1571	142.629	142.4042		160.7	
		Tu,ka	-128.59	-39.87	-0.018	111.139	0.012	-218.105	-83.0338	-305.319	-160.823	-227.53			-305.32
STORY7	B173	Tu,ki	-125.58	-38.69	0.044	126.37	0.018	-212.582	-63.014	-315.765	-151.46	-227.318	160.22		
		Lap	92.933	30.018	0.017	0.277	0.004	159.5569	141.8158	141.2594	141.6247	141.4505		159.6	
		Tu,ka	-128.2	-39.72	-0.009	126.884	0.01	-217.398	-66.6742	-320.448	-155.486	-231.636			-320.45
STORY6	B173	Tu,ki	-126.12	-38.93	0.037	138.276	0.015	-213.61	-51.9897	-328.551	-148.772	-231.768	166.31		
		Lap	92.575	29.849	0.015	0.26	0.004	158.8559	141.2002	140.6778	141.021	140.857		158.9	
		Tu,ka	-128.38	-39.82	-0.006	138.742	0.008	-217.77	-55.1322	-332.621	-152.246	-235.507			-332.62
STORY5	B173	Tu,ki	-122.26	-38	0.022	149.57	0.011	-207.498	-35.1383	-334.285	-139.83	-229.594	167.72		
		Lap	91.905	29.548	0.011	0.193	0.003	157.5683	140.0279	139.6401	139.8949	139.7731		157.6	
		Tu,ka	-122.8	-38.16	0	149.927	0.005	-208.41	-35.5875	-335.445	-140.533	-230.499			-335.44
STORY4	B173	Tu,ki	-123.32	-38.47	0.013	159.722	0.008	-209.526	-26.7278	-346.177	-138.528	-234.377	173.09		
		Lap	91.392	29.313	0.008	0.137	0.003	156.5752	139.1213	138.8455	139.0275	138.9393		156.6	
		Tu,ka	-122.77	-38.15	0.003	159.978	0.003	-208.367	-25.4967	-345.455	-137.479	-233.472			-346.18
STORY3	B173	Tu,ki	-118.73	-37.21	0.006	167.532	0.006	-202.014	-12.1568	-347.224	-129.425	-229.956	173.61		
		Lap	90.932	29.102	0.005	0.094	0.002	155.6841	138.315	138.1258	138.2506	138.1902		155.7	
		Tu,ka	-117.58	-36.64	0.004	167.708	0.002	-199.715	-10.0234	-345.441	-127.418	-228.046			-347.22
STORY2	B173	Tu,ki	-119.21	-37.42	0.002	175.531	0.004	-202.931	-4.945	-356.009	-127.814	-233.141	178		
		Lap	90.589	28.944	0.003	0.056	0.001	155.0187	137.7071	137.5945	137.6686	137.633		155	
		Tu,ka	-117.78	-36.75	0.004	175.628	0.001	-200.132	-2.4585	-353.715	-125.397	-230.776			-356.01
STORY1	B173	Tu,ki	-114.05	-35.9	0	176.002	0.002	-194.307	3.237	-348.768	-119.963	-225.568	174.38		
		Lap	90.322	28.82	0.002	0.032	0.001	154.4994	137.2387	137.1741	137.217	137.1958		154.5	
		Tu,ka	-112.86	-35.34	0.003	176.054	0.001	-191.965	5.2903	-346.818	-117.947	-223.581			-348.77

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	D+1,6ML+0	+1ML+1Ex	+1ML-1Ex	+1ML+0,3E	+1ML-0,3E	M+	Mlap	M-
GROUND	B173	Tu,ki	-114.24	-35.98	0	159.222	0.001	-194.645	-13.8369	-332.282	-125.292	-220.827	166.14		
		Lap	90.087	28.713	0.001	0.018	0	154.0457	136.8354	136.7994	136.8228	136.812		154	
		Tu,ka	-113.14	-35.48	0.002	159.198	0	-192.533	-12.0494	-330.445	-123.488	-219.007			-332.28
STORY8	B174	Tu,ki	-128.59	-39.87	-0.018	111.139	0.012	-218.105	-83.0338	-305.319	-160.823	-227.53	152.66		
		Lap	93.528	30.283	0.022	0.358	0.005	160.6974	142.8761	142.1571	142.629	142.4042		160.7	
		Tu,ka	-124	-38.02	0.061	110.499	0.021	-209.596	-76.3121	-297.323	-153.647	-219.988			-305.32
STORY7	B174	Tu,ki	-128.2	-39.72	-0.009	126.884	0.01	-217.398	-66.6742	-320.448	-155.486	-231.636	160.22		
		Lap	92.933	30.018	0.017	0.277	0.004	159.5569	141.8158	141.2594	141.6247	141.4505		159.6	
		Tu,ka	-125.58	-38.69	0.044	126.37	0.018	-212.582	-63.014	-315.765	-151.46	-227.318			-320.45
STORY6	B174	Tu,ki	-128.38	-39.82	-0.006	138.742	0.008	-217.77	-55.1322	-332.621	-152.246	-235.507	166.31		
		Lap	92.575	29.849	0.015	0.26	0.004	158.8559	141.2002	140.6778	141.021	140.857		158.9	
		Tu,ka	-126.12	-38.93	0.037	138.276	0.015	-213.61	-51.9897	-328.551	-148.772	-231.768			-332.62
STORY5	B174	Tu,ki	-122.8	-38.16	0	149.927	0.005	-208.41	-35.5875	-335.445	-140.533	-230.499	167.72		
		Lap	91.905	29.548	0.011	0.193	0.003	157.5683	140.0279	139.6401	139.8949	139.7731		157.6	
		Tu,ka	-122.26	-38	0.022	149.57	0.011	-207.498	-35.1383	-334.285	-139.83	-229.594			-335.44
STORY4	B174	Tu,ki	-122.77	-38.15	0.003	159.978	0.004	-208.367	-25.4964	-345.455	-137.478	-233.473	173.09		
		Lap	91.392	29.313	0.008	0.137	0.003	156.5752	139.1213	138.8455	139.0275	138.9393		156.6	
		Tu,ka	-123.32	-38.47	0.013	159.722	0.008	-209.526	-26.7278	-346.177	-138.528	-234.377			-346.18
STORY3	B174	Tu,ki	-117.58	-36.64	0.004	167.708	0.002	-199.715	-10.0234	-345.441	-127.418	-228.046	173.61		
		Lap	90.932	29.102	0.005	0.094	0.002	155.6841	138.315	138.1258	138.2506	138.1902		155.7	
		Tu,ka	-118.73	-37.21	0.006	167.532	0.006	-202.014	-12.1568	-347.224	-129.425	-229.956			-347.22
STORY2	B174	Tu,ki	-117.78	-36.75	0.004	175.628	0.001	-200.132	-2.4585	-353.715	-125.397	-230.776	178		
		Lap	90.589	28.944	0.003	0.056	0.001	155.0187	137.7071	137.5945	137.6686	137.633		155	
		Tu,ka	-119.21	-37.42	0.002	175.531	0.004	-202.931	-4.945	-356.009	-127.814	-233.141			-356.01
STORY1	B174	Tu,ki	-112.86	-35.34	0.003	176.054	0.001	-191.965	5.2903	-346.818	-117.947	-223.581	174.38		
		Lap	90.322	28.82	0.002	0.032	0.001	154.4994	137.2387	137.1741	137.217	137.1958		154.5	
		Tu,ka	-114.05	-35.9	0	176.002	0.002	-194.307	3.237	-348.768	-119.963	-225.568			-348.77
GROUND	B174	Tu,ki	-113.14	-35.48	0.002	159.198	0	-192.533	-12.0494	-330.445	-123.488	-219.007	166.14		
		Lap	90.087	28.713	0.001	0.018	0	154.0457	136.8354	136.7994	136.8228	136.812		154	
		Tu,ka	-114.24	-35.98	0	159.222	0.001	-194.645	-13.8369	-332.282	-125.292	-220.827			-332.28
STORY8	B175	Tu,ki	-85.564	-20.18	0.283	114.775	0.035	-134.827	-8.0733	-237.644	-88.3913	-157.326	164.34		
		Lap	107.37	36.902	0.093	1.673	0.03	187.9337	167.428	164.064	166.2779	165.2141		187.9	
		Tu,ka	-139.35	-44.46	-0.097	116.992	0.039	-238.399	-94.6703	-328.678	-176.537	-246.811			-328.68

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	D+1,6ML+0	+1ML+1Ex	+1ML-1Ex	+1ML+0,3E	+1ML-0,3E	M+	Mlap	M-
STORY7	B175	Tu,ki	-83.73	-19.27	0.282	130.651	0.041	-131.161	10.9213	-250.405	-80.5057	-158.978	179.21		
		Lap	103.95	35.303	0.064	1.137	0.028	181.258	161.1896	158.8988	160.4133	159.6751		181.3	
		Tu,ka	-148.02	-48.57	-0.153	132.222	0.026	-255.415	-93.9646	-358.424	-186.502	-265.887			-358.42
STORY6	B175	Tu,ki	-90.156	-22.23	0.236	142.055	0.035	-143.644	11.6443	-272.487	-87.7697	-173.073	179.64		
		Lap	103.55	35.154	0.053	0.809	0.032	180.5317	160.2314	158.5942	159.6875	159.1381		180.5	
		Tu,ka	-142.4	-45.91	-0.129	142.493	0.036	-244.387	-74.2752	-359.283	-173.995	-259.563			-359.28
STORY5	B175	Tu,ki	-86.943	-21.56	0.211	153.213	0.04	-138.725	27.3314	-279.119	-79.8897	-171.898	184.77		
		Lap	100.21	33.538	0.034	0.608	0.028	173.9238	154.4004	153.1676	153.9944	153.5736		173.9	
		Tu,ka	-141.52	-46.61	-0.143	153.106	0.023	-244.467	-63.3179	-369.544	-170.476	-262.386			-369.54
STORY4	B175	Tu,ki	-90.373	-23.11	0.184	162.996	0.04	-145.327	31.4534	-294.563	-82.6158	-180.493	190.23		
		Lap	98.011	32.475	0.022	0.611	0.025	169.5842	150.7067	149.4697	150.2965	149.8799		169.6	
		Tu,ka	-142.48	-47.19	-0.139	162.299	0.019	-246.548	-55.8587	-380.468	-169.455	-266.872			-380.47
STORY3	B175	Tu,ki	-90.835	-24.17	0.146	170.247	0.036	-147.607	37.0818	-303.434	-82.0659	-184.286	188.14		
		Lap	96.042	31.514	0.014	0.693	0.022	165.6798	147.464	146.0648	146.9943	146.5345		165.7	
		Tu,ka	-135.25	-44.86	-0.118	169.111	0.018	-234.132	-38.0432	-376.276	-156.408	-257.911			-376.28
STORY2	B175	Tu,ki	-96.558	-26.81	0.114	177.532	0.03	-158.707	34.8624	-320.22	-89.389	-195.968	189.22		
		Lap	94.633	30.822	0.008	0.824	0.02	162.8788	145.2116	143.5516	144.6488	144.1144		162.9	
		Tu,ka	-132.35	-43.61	-0.097	176.014	0.021	-228.634	-26.4023	-378.443	-149.597	-255.248			-378.44
STORY1	B175	Tu,ki	-98.701	-28.67	0.075	177.162	0.02	-164.281	30.0538	-324.282	-93.9456	-200.283	181.08		
		Lap	93.295	30.171	0.005	0.824	0.016	160.2301	142.9538	141.2962	142.3882	141.8618		160.2	
		Tu,ka	-122.26	-39.87	-0.066	175.569	0.022	-210.53	-11.0026	-362.154	-133.886	-239.271			-362.15
GROUND	B175	Tu,ki	-106.55	-32.29	0.042	159.211	0.009	-179.506	-0.9383	-319.366	-112.38	-207.924	165.84		
		Lap	93.051	30.016	0.002	0.996	0.017	159.6878	142.6783	140.6761	141.993	141.3614		159.7	
		Tu,ka	-114.9	-36.56	-0.038	157.241	0.036	-196.39	-17.1852	-331.689	-127.229	-221.645			-331.69
STORY8	B176	Tu,ki	14.941	28.849	1.007	94.205	0.684	64.5911	141.1884	-47.632	75.7237	17.8327	172.14		
		Lap	51.34	10.328	-0.026	14.148	1.06	78.1198	86.402	57.47	77.2404	66.6316		86.4	
		Tu,ka	-138.57	-62.07	-1.004	115.768	0.566	-266.084	-112.405	-344.281	-193.047	-263.639			-344.28
STORY7	B176	Tu,ki	24.818	33.792	0.918	110.817	0.808	84.3078	174.633	-47.4858	97.6267	29.5205	187.31		
		Lap	50.805	10.391	-0.027	12.766	1.206	77.5781	84.4848	58.2292	76.3928	66.3212		93.65	
		Tu,ka	-148.93	-66.62	-0.92	129.073	0.679	-285.769	-116.061	-374.614	-205.937	-284.738			-374.61
STORY6	B176	Tu,ki	7.49	25.965	0.715	129.106	0.887	50.8895	164.3251	-94.4191	74.5718	-4.6658	183.11		
		Lap	51.777	10.735	-0.021	14.965	1.332	79.2979	88.232	57.5028	78.6889	67.0459		91.56	
		Tu,ka	-130.7	-58.56	-0.717	150.606	0.74	-250.889	-64.566	-366.222	-169.472	-261.316			-366.22

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	D+1,6ML+0	+1ML+1Ex	+1ML-1Ex	+1ML+0,3E	+1ML-0,3E	M+	Mlap	M-
STORY5	B176	Tu,ki	11.676	26.615	0.596	144.374	0.954	56.8932	185.2864	-104.034	84.8924	-3.64	186.01		
		Lap	51.722	11.007	-0.019	12.789	1.452	79.6681	86.298	59.8488	78.3621	67.7847		93	
		Tu,ka	-128.05	-57.1	-0.6	161.009	0.811	-245.329	-49.5141	-372.019	-161.653	-259.88			-372.02
STORY4	B176	Tu,ki	7.202	24.019	0.497	160.462	1.042	47.3213	193.436	-128.113	81.842	-16.5192	193.44		
		Lap	52.148	11.366	-0.015	11.705	1.557	80.7557	86.1157	61.7715	79.0121	68.8751		94.03	
		Tu,ka	-123.04	-53.97	-0.5	174.236	0.9	-234.239	-27.1032	-376.115	-148.438	-254.78			-376.12
STORY3	B176	Tu,ki	0.286	18.952	0.379	175.459	1.081	30.8559	195.0785	-156.488	73.0139	-34.4235	195.08		
		Lap	52.695	11.782	-0.011	10.563	1.668	82.0797	86.0794	63.9526	79.8529	70.1791		91.01	
		Tu,ka	-108.83	-46.84	-0.38	186.307	0.951	-205.729	9.1575	-364.027	-120.592	-234.278			-364.03
STORY2	B176	Tu,ki	-10.65	12.87	0.288	191.922	1.156	7.956	192.3588	-192.179	58.8226	-58.6426	192.36		
		Lap	53.221	12.138	-0.008	9.827	1.769	83.282	86.3609	65.6455	80.7203	71.2861		89.58	
		Tu,ka	-97.528	-40.42	-0.289	200.546	1.036	-181.844	43.4072	-358.306	-96.2498	-218.649			-358.31
STORY1	B176	Tu,ki	-22.182	5.185	0.186	200.104	1.158	-18.2294	179.018	-221.885	39.7558	-82.6226	179.02		
		Lap	53.772	12.541	-0.005	8.695	1.848	84.5895	86.3168	67.818	81.5239	72.6109		86.32	
		Tu,ka	-79.042	-30.85	-0.186	206.173	1.06	-144.307	80.7886	-332.193	-62.7905	-188.614			-332.19
GROUND	B176	Tu,ki	-41.31	-4.818	0.104	187.217	1.1	-57.2288	133.157	-241.937	2.8751	-111.655	143.07		
		Lap	54.38	12.77	-0.003	8.213	1.771	85.6865	86.7703	69.2817	82.2609	73.7911		86.77	
		Tu,ka	-59.843	-20.97	-0.103	193.061	1.015	-105.407	100.5889	-286.142	-33.8433	-151.71			-286.14
ATAP	B88	Tu,ki	-6.956	3.026	-0.189	8.025	3.012	-3.6001	3.6074	-14.2498	0.0983	-10.7407	15.719		
		Lap	0.587	0.203	0.063	3.256	0.155	1.0607	4.2099	-2.3951	2.0392	-0.2244		7.86	
		Tu,ka	-9.566	-5.253	-0.212	13.892	2.714	-19.99	-2.026	-31.4384	-9.8506	-23.6138			-31.438
STORY4	B88	Tu,ki	-2.575	2.944	0.226	30.55	3.935	1.7334	31.5845	-31.8765	12.954	-13.246	36.852		
		Lap	-2.003	0.772	0.003	3.959	0.108	-1.1669	2.3598	-5.623	-0.3359	-2.9273		18.43	
		Tu,ka	-21.813	-7.983	-0.221	38.426	3.731	-39.0589	5.3867	-73.7039	-18.8998	-49.4174			-73.704
STORY3	B358	Tu,ki	-2.758	3.286	0.127	55.115	3.745	2.0115	56.2149	-56.2621	20.2559	-20.3031	56.215		
		Lap	0.486	1.073	-0.005	4.584	0.139	2.2975	6.2819	-2.9695	3.1704	0.142		22.68	
		Tu,ka	-15.122	-7.257	-0.137	64.279	3.469	-29.8261	39.9163	-90.7231	-2.6507	-48.1561			-90.723
STORY2	B88	Tu,ki	-2.881	2.852	0.098	73.595	3.408	1.155	74.0122	-75.2226	24.8813	-26.0917	74.012		
		Lap	1.434	1.21	-0.002	4.409	0.131	3.6558	7.3791	-1.5175	4.3845	1.4771		26.41	
		Tu,ka	-13.103	-6.551	-0.102	82.41	3.149	-26.2562	61.0801	-105.629	5.5974	-50.1466			-105.63
STORY1	B88	Tu,ki	-2.766	1.659	0.055	79.865	2.351	-0.6373	78.9101	-82.2305	24.6503	-27.9707	78.91		
		Lap	2.435	1.359	-0.001	3.716	0.112	5.0959	8.0306	0.5314	5.5078	3.0542		26.05	
		Tu,ka	-9.729	-4.602	-0.057	87.295	2.135	-19.0665	71.6587	-104.212	12.0467	-44.6003			-104.21

GROUND	B88	Tu,ki	-3.19	0.116	0.026	63.151	1.239	-3.6294	59.8107	-67.2347	16.4723	-23.8963	59.811		
		Lap	2.933	1.449	0	2.001	0.057	5.838	6.9867	2.9505	5.6259	4.3113		20.09	
		Tu,ka	-8.31	-2.88	-0.027	67.151	1.13	-14.5935	54.638	-80.342	8.4233	-34.1273			
ATAP	B169	Tu,ki	0.14	-0.031	0.007	0.108	0.14	0.1219	0.287	-0.013	0.3094	-0.0354	18.354		
		Lap	-12.371	-1.025	-0.189	0.131	0.181	-16.5797	-15.6849	-16.0555	-15.6499	-16.0905		9.177	
		Tu,ka	-27.473	-2.205	-0.423	0.244	0.501	-36.7071	-34.7783	-35.5669	-34.5984	-35.7468			
STORY4	B258	Tu,ki	-0.028	0.005	-0.003	0.211	0.235	-0.0271	0.2529	-0.3101	0.2697	-0.3269	41.795		
		Lap	-28.285	-2.46	-0.004	0.24	0.442	-37.88	-36.0294	-36.7746	-35.888	-36.916		20.9	
		Tu,ka	-62.472	-5.388	-0.006	0.428	1.119	-83.5902	-79.5907	-81.1181	-79.107	-81.6018			
STORY3	B377	Tu,ki	0.026	-0.004	0	0.256	0.334	0.0248	0.3834	-0.329	0.438	-0.3836	39.71		
		Lap	-26.927	-2.366	0	0.328	0.647	-36.098	-34.1563	-35.2005	-33.933	-35.4238		19.86	
		Tu,ka	-59.319	-5.149	0.001	0.616	1.627	-79.4207	-75.2277	-77.4359	-74.52	-78.1436			

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	D+1,6ML+0	+1ML+1Ex	+1ML-1Ex	+1ML+0,3E	+1ML-0,3E	M+	Mlap	M-
STORY2	B169	Tu,ki	0.011	-0.003	-0.001	0.259	0.388	0.0079	0.3856	-0.3652	0.4759	-0.4555	39.696		
		Lap	-26.932	-2.358	0	0.377	0.791	-36.0912	-34.0621	-35.2907	-33.7723	-35.5805		19.85	
		Tu,ka	-59.313	-5.135	0	0.74	1.969	-79.3916	-74.9799	-77.6413	-74.1196	-78.5016			
STORY1	B258	Tu,ki	0.008	-0.002	0	0.228	0.388	0.0064	0.352	-0.3368	0.464	-0.4488	37.649		
		Lap	-25.643	-2.245	0	0.366	0.766	-34.3636	-32.4208	-33.6124	-32.1408	-33.8924		18.82	
		Tu,ka	-56.258	-4.868	0	0.726	1.92	-75.2984	-71.0756	-73.6796	-70.2398	-74.5154			
GROUND	B258	Tu,ki	0.013	0.005	0	0.128	0.275	0.0236	0.2311	-0.1899	0.334	-0.2928	37.671		
		Lap	-25.654	-2.245	0	0.259	0.56	-34.3768	-32.6028	-33.4568	-32.3921	-33.6675		18.84	
		Tu,ka	-56.285	-4.875	0	0.532	1.396	-75.342	-71.4662	-73.3678	-70.8614	-73.9726			
ATAP	B171	Tu,ki	-27.473	-2.205	-0.423	0.244	0.501	-36.7071	-34.7783	-35.5669	-34.5984	-35.7468	18.354		
		Lap	-12.371	-1.025	-0.189	0.131	0.181	-16.5797	-15.6849	-16.0555	-15.6499	-16.0905		9.177	
		Tu,ka	0.14	-0.031	0.007	0.108	0.14	0.1219	0.287	-0.013	0.3094	-0.0354			
STORY4	B260	Tu,ki	-62.472	-5.388	-0.006	0.428	1.119	-83.5902	-79.5907	-81.1181	-79.107	-81.6018	41.795		
		Lap	-28.285	-2.46	-0.004	0.24	0.442	-37.88	-36.0294	-36.7746	-35.888	-36.916		20.9	
		Tu,ka	-0.028	0.005	-0.003	0.211	0.235	-0.0271	0.2529	-0.3101	0.2697	-0.3269			
STORY3	B379	Tu,ki	-59.319	-5.149	0.001	0.616	1.627	-79.4207	-75.2277	-77.4359	-74.52	-78.1436	39.71		
		Lap	-26.927	-2.366	0	0.328	0.647	-36.098	-34.1563	-35.2005	-33.933	-35.4238		19.86	
		Tu,ka	0.026	-0.004	0	0.256	0.334	0.0248	0.3834	-0.329	0.438	-0.3836			
STORY2	B171	Tu,ki	-59.313	-5.135	0	0.74	1.969	-79.3916	-74.9799	-77.6413	-74.1196	-78.5016	39.696		
		Lap	-26.932	-2.358	0	0.377	0.791	-36.0912	-34.0621	-35.2907	-33.7723	-35.5805		19.85	
		Tu,ka	0.011	-0.003	-0.001	0.259	0.388	0.0079	0.3856	-0.3652	0.4759	-0.4555			

STORY1	B260	Tu,ki	-56.258	-4.868	0	0.726	1.92	-75.2984	-71.0756	-73.6796	-70.2398	-74.5154	37.649			
		Lap	-25.643	-2.245	0	0.366	0.766	-34.3636	-32.4208	-33.6124	-32.1408	-33.8924		18.82		
		Tu,ka	0.008	-0.002	0	0.228	0.388	0.0064	0.352	-0.3368	0.464	-0.4488				-75.298
GROUND	B260	Tu,ki	-56.285	-4.875	0	0.532	1.396	-75.342	-71.4662	-73.3678	-70.8614	-73.9726	37.671			
		Lap	-25.654	-2.245	0	0.259	0.56	-34.3768	-32.6028	-33.4568	-32.3921	-33.6675		18.84		
		Tu,ka	0.013	0.005	0	0.128	0.275	0.0236	0.2311	-0.1899	0.334	-0.2928				-75.342

Tabel 5.2. Momen Rencana Balok Arah Y

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	D+1,6ML+0	+1ML+1Ex	+1ML-1Ex	+1ML+0,3E	+1ML-0,3E	M+	Mlap	M-
ROOF	B67	Tu,ki	-274.19	-68.33	-6.932	0	36.823	-441.819	-386.311	-408.405	-360.535	-434.181	251.19		
		Lap	483.24	82.984	20.422	0	5.875	722.8698	664.6309	661.1059	668.7434	656.9934		722.87	
		Tu,ka	-379.66	-21.19	-21.486	0	25.6	-500.229	-469.095	-484.455	-451.175	-502.375			-502.37
STORY10	B67	Tu,ki	-474.03	-151.2	-3.273	0	91.538	-812.325	-692.531	-747.454	-628.454	-811.53	406.16		
		Lap	508.99	170.09	-0.011	0	10.792	882.9237	784.1152	777.64	791.6696	770.0856		882.9	
		Tu,ka	-432.13	-124.2	1.903	0	70.687	-716.327	-621.551	-663.963	-572.07	-713.444			-812.32
STORY9	B67	Tu,ki	-442.08	-149.1	-0.928	0	140.454	-769.588	-637.502	-721.774	-539.184	-820.092	410.05		
		Lap	512.05	168.78	0.559	0	16.659	884.7899	788.2401	778.2447	799.9014	766.5834		884.8	
		Tu,ka	-446.21	-127.6	1.446	0	108.15	-738.833	-630.574	-695.464	-554.869	-771.169			-820.09
ROOF	B68	Tu,ki	-315.4	-17.47	-18.787	0	30.493	-415.825	-386.802	-405.098	-365.457	-426.443	230.98		
		Lap	199.64	38.947	7.768	0	2.263	305.7684	279.1951	277.8373	280.7792	276.2532		305.8	
		Tu,ka	-309.14	-53.7	-10.165	0	27.34	-461.961	-416.458	-432.862	-397.32	-452			-461.96
STORY10	B68	Tu,ki	-316.91	-100.8	2.367	0	77.824	-540.468	-457.795	-504.489	-403.318	-558.966	308.79		
		Lap	251.22	82.125	0.656	0	2.117	433.186	384.2181	382.9479	385.7	381.466		433.2	
		Tu,ka	-364.48	-105.7	-1.063	0	74.469	-607.086	-520.771	-565.452	-468.642	-617.58			-617.58
STORY9	B68	Tu,ki	-334.88	-100.8	0.899	0	113.225	-562.685	-468.686	-536.621	-389.428	-615.878	321.76		
		Lap	246.15	82.523	0.132	0	1.811	427.484	378.4475	377.3609	379.7152	376.0932		427.5	
		Tu,ka	-356.86	-105	-0.646	0	110.246	-596.621	-500.199	-566.347	-423.027	-643.519			-643.52
ROOF	B69	Tu,ki	-295.77	-49.45	-10.351	0	31.538	-439.22	-394.912	-413.835	-372.836	-435.912	219.61		
		Lap	227.44	31.612	11.264	0	1.596	329.138	305.0176	304.06	306.1348	302.9428		329.1	
		Tu,ka	-273.07	-36.78	-11.52	0	28.926	-392.296	-355.788	-373.143	-335.54	-393.392			-439.22
STORY10	B69	Tu,ki	-341.1	-100.8	-0.746	0	79.872	-570.912	-486.119	-534.042	-430.208	-589.952	294.98		
		Lap	265.62	88.37	-0.317	0	1.055	459.9727	407.4257	406.7927	408.1642	406.0542		460	
		Tu,ka	-312.02	-93.45	0.078	0	78.193	-523.907	-444.417	-491.333	-389.682	-546.068			-589.95
STORY9	B69	Tu,ki	-337.29	-101.2	-0.342	0	116.702	-566.785	-470.905	-540.926	-389.213	-622.617	311.31		
		Lap	267.57	88.08	-0.102	0	0.995	461.9622	409.4637	408.8667	410.1602	408.1702		462	
		Tu,ka	-311.92	-93.68	0.116	0	115.053	-524.135	-433.468	-502.499	-352.93	-583.036			-622.62
ROOF	B70	Tu,ki	-276.51	-37.83	-11.416	0	31.865	-398.049	-360.082	-379.201	-337.777	-401.507	200.75		
		Lap	256.42	48.243	10.28	0	5.032	390.0268	357.4506	354.4314	360.973	350.909		390	
		Tu,ka	-233.67	-14.78	-12.435	0	40.013	-310.268	-283.178	-307.185	-255.168	-335.194			-401.51
STORY10	B70	Tu,ki	-321.14	-95.03	-0.1	0	79.59	-537.458	-456.514	-504.268	-400.801	-559.981	279.99		
		Lap	295.87	97.729	0.482	0	3.475	511.649	453.8131	451.7281	456.2456	449.2956		511.6	
		Tu,ka	-271.17	-80.39	1.039	0	84.389	-453.502	-380.472	-431.105	-321.399	-490.177			-559.98

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	D+1,6ML+0	+1ML+1Ex	+1ML-1Ex	+1ML+0,3E	+1ML-0,3E	M+	Mlap	M-
STORY9	B70	Tu,ki	-320.26	-94.93	-0.103	0	115.019	-536.244	-444.73	-513.741	-364.216	-594.254	297.13		
		Lap	292.76	97.672	0.238	0	2.517	507.7026	449.7355	448.2253	451.4974	446.4634		507.7	
		Tu,ka	-278.23	-80.61	0.562	0	117.859	-462.577	-379.133	-449.848	-296.631	-532.349			-594.25
ROOF	B71	Tu,ki	-192.46	4.951	-12.274	0	20.12	-229.172	-219.97	-232.042	-205.886	-246.126	142.57		
		Lap	331.58	52.043	14.451	0	9.58	488.3855	452.8082	447.0602	459.5142	440.3542		488.4	
		Tu,ka	-166.96	-49.6	-3.24	0	35.184	-281.326	-239.391	-260.501	-214.762	-285.13			-285.13
STORY10	B71	Tu,ki	-196.96	-46.77	1.9	0	65.382	-310.23	-263.506	-302.735	-217.739	-348.503	283.21		
		Lap	338.91	110.8	-0.321	0	14.307	583.8115	521.7859	513.2017	531.8008	503.1868		583.8	
		Tu,ka	-309.01	-102.4	-2.562	0	93.258	-535.86	-445.19	-501.145	-379.909	-566.425			-566.43
STORY9	B71	Tu,ki	-211.5	-50.02	1.363	0	105.633	-333.139	-272.121	-335.501	-198.178	-409.444	293.76		
		Lap	344.26	110.74	0.164	0	21.248	590.3712	530.2226	517.4738	545.0962	502.6002		590.4	
		Tu,ka	-283.72	-99.22	-1.047	0	147.837	-499.739	-395.333	-484.036	-291.847	-587.521			-587.52
STORY8	B204	Tu,ki	-490.9	-164.4	-1.106	0	159.913	-852.618	-705.471	-801.418	-593.531	-913.357	456.68		
		Lap	490.78	162.93	0.379	0	22.664	849.8171	758.6688	745.0704	774.5336	729.2056		849.8	
		Tu,ka	-429.69	-121.6	1.258	0	129.741	-709.503	-598.269	-676.114	-507.45	-766.932			-913.36
STORY7	B204	Tu,ki	-531.45	-177.3	-1	0	173.421	-921.976	-763.049	-867.102	-641.654	-988.496	494.25		
		Lap	474.65	158.11	0.326	0	28.212	822.7106	736.147	719.2198	755.8954	699.4714		822.7	
		Tu,ka	-431.97	-121.7	1.112	0	146.409	-712.58	-596.175	-684.02	-493.688	-786.506			-988.5
STORY6	B204	Tu,ki	-500.28	-166.8	-0.796	0	196.568	-867.655	-708.192	-826.133	-570.594	-963.73	481.87		
		Lap	473.25	157.48	0.263	0	31.017	819.9983	734.6821	716.0719	756.394	694.36		820	
		Tu,ka	-452.59	-128.9	0.891	0	164.391	-748.926	-622.706	-721.341	-507.632	-836.414			-963.73
STORY5	B204	Tu,ki	-515.88	-171.1	-0.676	0	202.344	-893.178	-729.469	-850.876	-587.829	-992.517	496.26		
		Lap	455.65	151.97	0.208	0	36.544	790.0316	709.7118	687.7854	735.2926	662.2046		790	
		Tu,ka	-450.03	-128.9	0.729	0	175.76	-745.916	-616.209	-721.665	-493.177	-844.697			-992.52
STORY4	B204	Tu,ki	-523.86	-172.5	-0.566	0	211.204	-904.942	-737.786	-864.508	-589.943	-1012.35	506.18		
		Lap	444.04	148.17	0.167	0	40.77	770.0043	693.2486	668.7866	721.7876	640.2476		770	
		Tu,ka	-464.26	-134.2	0.6	0	187.538	-771.578	-635.08	-747.603	-503.803	-878.879			-1012.4
STORY3	B204	Tu,ki	-512.27	-167.5	-0.436	0	218.452	-882.877	-716.647	-847.718	-563.731	-1000.63	500.32		
		Lap	431.81	144.04	0.126	0	45.364	748.6882	675.8122	648.5938	707.567	616.839		748.7	
		Tu,ka	-469.09	-137.5	0.457	0	198.14	-782.636	-640.939	-759.823	-502.241	-898.521			-1000.6
STORY2	B204	Tu,ki	-507.86	-164.4	-0.332	0	227.83	-872.649	-705.488	-842.186	-546.007	-1001.67	500.83		
		Lap	422.13	140.65	0.094	0	49.289	731.637	661.9867	632.4133	696.489	597.911		731.6	
		Tu,ka	-487.45	-144.7	0.344	0	209.691	-816.357	-666.776	-792.59	-519.992	-939.374			-1001.7

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	D+1,6ML+0	+1ML+1Ex	+1ML-1Ex	+1ML+0,3E	+1ML-0,3E	M+	Mlap	M-
STORY1	B204	Tu,ki	-488.89	-156.5	-0.217	0	231.087	-837.142	-673.822	-812.474	-512.061	-974.235	487.12		
		Lap	410.71	136.59	0.061	0	52.862	711.4233	645.2968	613.5796	682.3002	576.5762		711.4	
		Tu,ka	-495.27	-149.5	0.223	0	216.26	-833.411	-678.943	-808.699	-527.561	-960.081			-974.23
GROUND	B204	Tu,ki	-461.5	-146.1	-0.121	0	225.147	-787.67	-632.387	-767.475	-474.784	-925.078	494.04		
		Lap	407.07	134.93	0.034	0	50.722	704.3842	638.6258	608.1926	674.1312	572.6872		704.4	
		Tu,ka	-517.06	-158.2	0.124	0	209.431	-873.485	-715.813	-841.472	-569.211	-988.073			-988.07
STORY8	B205	Tu,ki	-306.27	-92.99	0.8	0	141.743	-515.904	-417.988	-503.034	-318.768	-602.254	330.64		
		Lap	253.33	84.26	0.142	0	2.229	438.8806	388.9223	387.5849	390.4826	386.0246		438.9	
		Tu,ka	-350.22	-103.4	-0.522	0	137.585	-586.029	-482.429	-564.98	-386.119	-661.289			-661.29
STORY7	B205	Tu,ki	-295.21	-89.85	0.619	0	164.856	-497.699	-394.644	-493.557	-279.244	-608.956	342.93		
		Lap	257.96	85.474	0.099	0	2.554	446.3539	395.7862	394.2538	397.574	392.466		446.4	
		Tu,ka	-351.58	-104	-0.426	0	159.967	-588.503	-477.902	-573.882	-365.925	-685.859			-685.86
STORY6	B205	Tu,ki	-313.42	-95.01	0.492	0	180.667	-527.872	-416.911	-525.311	-290.444	-651.778	343.71		
		Lap	254	84.193	0.084	0	2.261	439.5532	389.6737	388.3171	391.2564	386.7344		439.6	
		Tu,ka	-341.39	-101.4	-0.327	0	176.339	-572.081	-458.171	-563.974	-334.733	-687.411			-687.41
STORY5	B205	Tu,ki	-296.88	-90.54	0.355	0	198.899	-500.93	-387.116	-506.456	-247.887	-645.685	343.41		
		Lap	258.24	85.21	0.055	0	2.463	446.2551	395.8405	394.3627	397.5646	392.6386		446.3	
		Tu,ka	-328.91	-97.99	-0.245	0	194.142	-551.594	-434.436	-550.922	-298.537	-686.821			-686.82
STORY4	B205	Tu,ki	-297.84	-91.06	0.263	0	215.512	-502.961	-383.806	-513.113	-232.947	-663.971	348.5		
		Lap	259.92	85.519	0.038	0	2.368	448.751	398.131	396.7102	399.7886	395.0526		448.8	
		Tu,ka	-324.42	-96.77	-0.188	0	210.923	-544.234	-422.799	-549.353	-275.153	-696.999			-697
STORY3	B205	Tu,ki	-290.42	-89.1	0.182	0	230.758	-490.959	-368.366	-506.82	-206.835	-668.351	344.2		
		Lap	261.7	85.882	0.024	0	2.22	451.468	400.5928	399.2608	402.1468	397.7068		451.5	
		Tu,ka	-308.11	-92.25	-0.133	0	226.431	-517.387	-394.044	-529.903	-235.542	-688.404			-688.4
STORY2	B205	Tu,ki	-294.68	-90.44	0.125	0	246.694	-498.26	-370.05	-518.066	-197.364	-690.752	347.59		
		Lap	262.78	86.072	0.015	0	2.048	453.0539	402.0176	400.7888	403.4512	399.3552		453.1	
		Tu,ka	-301.68	-90.5	-0.095	0	242.678	-506.854	-379.705	-525.311	-209.83	-695.186			-695.19
STORY1	B205	Tu,ki	-287.96	-88.48	0.075	0	257.159	-487.094	-356.893	-511.189	-176.882	-691.2	345.6		
		Lap	264.73	86.565	0.008	0	1.847	456.1876	404.7987	403.6905	406.0916	402.3976		456.2	
		Tu,ka	-284.56	-85.77	-0.059	0	253.504	-478.73	-351.187	-503.29	-173.735	-680.743			-691.2
GROUND	B205	Tu,ki	-303.41	-93.15	0.04	0	246.886	-513.105	-383.171	-531.302	-210.35	-704.122	352.06		
		Lap	262.42	85.751	0.004	0	1.689	452.1076	401.1617	400.1483	402.344	398.966		452.1	
		Tu,ka	-273.87	-82.77	-0.032	0	243.502	-461.089	-338.363	-484.464	-167.912	-654.916			-704.12

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	D+1,6ML+0	+1ML+1Ex	+1ML-1Ex	+1ML+0,3E	+1ML-0,3E	M+	Mlap	M-
STORY8	B206	Tu,ki	-327.28	-98.61	-0.267	0	143.819	-550.652	-448.205	-534.496	-347.531	-635.169	317.58		
		Lap	268.12	88.169	-0.078	0	0.78	462.7742	410.1458	409.6778	410.6918	409.1318		462.8	
		Tu,ka	-300.26	-90.2	0.094	0	142.428	-504.583	-407.781	-493.238	-308.082	-592.938			-635.17
STORY7	B206	Tu,ki	-326.6	-98.69	-0.192	0	165.903	-549.914	-440.833	-540.375	-324.701	-656.507	328.25		
		Lap	268.93	88.291	-0.045	0	0.619	463.9555	411.1891	410.8177	411.6224	410.3844		464	
		Tu,ka	-299.07	-89.78	0.089	0	164.747	-502.489	-399.241	-498.089	-283.918	-613.412			-656.51
STORY6	B206	Tu,ki	-322.42	-97.54	-0.152	0	182.425	-543.039	-429.712	-539.167	-302.014	-666.864	333.43		
		Lap	270.31	88.609	-0.037	0	0.56	466.1327	413.1538	412.8178	413.5458	412.4258		466.1	
		Tu,ka	-300.3	-90.22	0.067	0	181.375	-504.683	-396.171	-504.996	-269.208	-631.958			-666.86
STORY5	B206	Tu,ki	-310.69	-94.34	-0.101	0	199.264	-523.818	-407.386	-526.944	-267.901	-666.429	333.21		
		Lap	271.1	88.757	-0.02	0	0.414	467.3152	414.1952	413.9468	414.485	413.657		467.3	
		Tu,ka	-289.99	-87.28	0.054	0	198.484	-487.609	-375.723	-494.813	-236.784	-633.752			-666.43
STORY4	B206	Tu,ki	-308.67	-93.81	-0.072	0	215.392	-520.533	-399.593	-528.828	-248.818	-679.602	339.8		
		Lap	271.98	88.955	-0.012	0	0.305	468.7016	415.4261	415.2431	415.6396	415.0296		468.7	
		Tu,ka	-290.01	-87.31	0.044	0	214.826	-487.683	-370.87	-499.766	-220.492	-650.144			-679.6
STORY3	B206	Tu,ki	-296.35	-90.3	-0.047	0	229.896	-500.127	-376.955	-514.893	-216.028	-675.82	337.91		
		Lap	272.67	89.098	-0.006	0	0.207	469.7578	416.3641	416.2399	416.509	416.095		469.8	
		Tu,ka	-280.66	-84.73	0.032	0	229.526	-472.352	-352.671	-490.387	-192.003	-651.055			-675.82
STORY2	B206	Tu,ki	-294.32	-89.68	-0.032	0	245.121	-496.69	-369.328	-516.401	-197.744	-687.986	343.99		
		Lap	273.24	89.224	-0.003	0	0.127	470.6485	417.1537	417.0775	417.2426	416.9886		470.6	
		Tu,ka	-281.4	-85.03	0.023	0	244.921	-473.711	-349.229	-496.182	-177.784	-667.626			-687.99
STORY1	B206	Tu,ki	-282.31	-86.17	-0.018	0	254.595	-476.66	-348.569	-501.326	-170.352	-679.542	339.77		
		Lap	273.52	89.266	-0.002	0	0.069	471.0534	417.5155	417.4741	417.5638	417.4258		471.1	
		Tu,ka	-272.76	-82.7	0.014	0	254.504	-459.619	-333.657	-486.359	-155.504	-664.512			-679.54
GROUND	B206	Tu,ki	-278.84	-85.02	-0.01	0	243.291	-470.643	-346.638	-492.613	-176.335	-662.917	331.46		
		Lap	274.21	89.449	-0.001	0	0.063	472.1675	418.5175	418.4797	418.5616	418.4356		472.2	
		Tu,ka	-274.72	-83.43	0.008	0	243.386	-463.141	-340.074	-486.106	-169.704	-656.476			-662.92
STORY8	B207	Tu,ki	-310.74	-92.26	-0.055	0	142.756	-520.524	-422.316	-507.97	-322.387	-607.899	303.95		
		Lap	290.75	96.672	0.187	0	1.953	503.6687	446.1579	444.9861	447.525	443.619		503.7	
		Tu,ka	-271.27	-79.46	0.416	0	145.663	-452.446	-361.279	-448.677	-259.315	-550.641			-607.9
STORY7	B207	Tu,ki	-311.22	-92.36	-0.035	0	165.368	-521.256	-416.211	-515.431	-300.453	-631.189	315.59		
		Lap	288.47	95.668	0.133	0	1.679	499.2981	442.3345	441.3271	443.5098	440.1518		499.3	
		Tu,ka	-275.16	-81.29	0.289	0	168.261	-460.115	-361.007	-461.964	-243.225	-579.747			-631.19

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	D+1,6ML+0	+1ML+1Ex	+1ML-1Ex	+1ML+0,3E	+1ML-0,3E	M+	Mlap	M-
STORY6	B207	Tu,ki	-310.13	-92.42	-0.015	0	181.106	-520.033	-410.242	-518.906	-283.468	-645.68	322.84		
		Lap	285.8	94.767	0.11	0	1.055	494.6422	438.0435	437.4105	438.782	436.672		494.6	
		Tu,ka	-281.44	-82.97	0.226	0	182.536	-470.371	-365.94	-475.462	-238.165	-603.237			-645.68
STORY5	B207	Tu,ki	-299.98	-89.6	0.002	0	198.652	-503.334	-389.977	-509.169	-250.921	-648.225	324.11		
		Lap	283.2	93.548	0.072	0	0.954	489.5516	433.673	433.1006	434.3408	432.4328		489.6	
		Tu,ka	-276.4	-82.41	0.136	0	200.061	-463.46	-354.065	-474.102	-214.022	-614.144			-648.23
STORY4	B207	Tu,ki	-299.88	-89.69	0.011	0	214.959	-503.353	-385.058	-514.033	-234.586	-664.504	332.25		
		Lap	280.77	92.483	0.049	0	0.74	484.9261	429.6338	429.1898	430.1518	428.6718		484.9	
		Tu,ka	-281.17	-84.38	0.082	0	215.889	-472.365	-357.011	-486.545	-205.889	-637.667			-664.5
STORY3	B207	Tu,ki	-289.49	-86.92	0.017	0	229.648	-486.447	-365.411	-503.199	-204.657	-663.953	331.98		
		Lap	278.62	91.516	0.031	0	0.533	480.7827	426.0175	425.6977	426.3906	425.3246		480.8	
		Tu,ka	-275.64	-83.3	0.043	0	230.176	-464.025	-345.014	-483.12	-183.891	-644.243			-663.95
STORY2	B207	Tu,ki	-289.28	-87.06	0.017	0	244.926	-486.427	-360.722	-507.677	-189.274	-679.126	339.56		
		Lap	276.92	90.761	0.019	0	0.381	477.5323	423.1805	422.9519	423.4472	422.6852		477.5	
		Tu,ka	-279.12	-84.62	0.02	0	245.019	-470.32	-346.056	-493.067	-174.542	-664.58			-679.13
STORY1	B207	Tu,ki	-278.91	-84.36	0.014	0	254.521	-469.663	-342.698	-495.411	-164.533	-673.575	336.79		
		Lap	275.68	90.176	0.011	0	0.241	475.1079	421.0691	420.9245	421.2378	420.7558		475.1	
		Tu,ka	-271.91	-82.74	0.006	0	254.467	-458.673	-332.692	-485.372	-154.565	-663.499			-673.58
GROUND	B207	Tu,ki	-277.84	-84.3	0.008	0	242.971	-468.271	-344.807	-490.59	-174.727	-660.669	330.33		
		Lap	274.24	89.597	0.005	0	0.414	472.4433	418.8068	418.5584	419.0966	418.2686		472.4	
		Tu,ka	-275.77	-83.91	0.002	0	242.203	-465.18	-342.173	-487.494	-172.63	-657.036			-660.67
STORY8	B208	Tu,ki	-191.5	-42.47	1.218	0	130.532	-297.154	-233.119	-311.438	-141.747	-402.811	331.61		
		Lap	327.05	105.59	0.052	0	20.143	561.43	504.0947	492.0089	518.1948	477.9088		561.4	
		Tu,ka	-317.69	-111.3	-1.126	0	170.73	-559.819	-441.277	-543.715	-321.766	-663.226			-663.23
STORY7	B208	Tu,ki	-186.21	-39.83	1.103	0	151.263	-286.617	-217.894	-308.652	-112.01	-414.536	363.06		
		Lap	314.86	101.75	0.032	0	18.329	540.64	485.0757	474.0783	497.906	461.248		540.6	
		Tu,ka	-347.24	-121.6	-1.048	0	187.889	-611.692	-481.87	-594.603	-350.347	-726.125			-726.13
STORY6	B208	Tu,ki	-207.53	-47.63	0.875	0	172.611	-324.807	-244.885	-348.451	-124.057	-469.279	355.28		
		Lap	317.91	102.74	0.028	0	21.326	545.8896	490.6282	477.8326	505.5564	462.9044		545.9	
		Tu,ka	-319.68	-111.7	-0.826	0	215.238	-562.766	-430.756	-559.899	-280.089	-710.565			-710.57
STORY5	B208	Tu,ki	-202	-46.6	0.732	0	189.521	-316.59	-232.142	-345.855	-99.4772	-478.519	366.12		
		Lap	306.64	99.223	0.013	0	17.945	526.7337	472.5769	461.8099	485.1384	449.2484		526.7	
		Tu,ka	-327.39	-114	-0.711	0	225.389	-575.61	-439.244	-574.477	-281.472	-732.25			-732.25

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	D+1,6ML+0	+1ML+1Ex	+1ML-1Ex	+1ML+0,3E	+1ML-0,3E	M+	Mlap	M-
STORY4	B208	Tu,ki	-211.11	-50.32	0.612	0	207.167	-333.547	-241.508	-365.809	-96.4914	-510.825	374.68		
		Lap	300.63	97.371	0.006	0	16.049	516.5574	462.9465	453.3171	474.1808	442.0828		516.6	
		Tu,ka	-330.16	-113.9	-0.602	0	239.249	-578.752	-438.328	-581.877	-270.853	-749.351			-749.35
STORY3	B208	Tu,ki	-216.19	-53.96	0.472	0	224.117	-345.526	-246.15	-380.62	-89.2682	-537.502	369.32		
		Lap	295.18	95.709	0.003	0	13.879	507.3567	454.0935	445.7661	463.8088	436.0508		507.4	
		Tu,ka	-315.78	-107.8	-0.468	0	251.858	-551.709	-411.216	-562.33	-234.915	-738.631			-738.63
STORY2	B208	Tu,ki	-231.72	-60.67	0.36	0	242.506	-374.944	-265.972	-411.476	-96.218	-581.23	369.75		
		Lap	291.57	94.611	0.001	0	12.423	501.2609	448.2207	440.7669	456.9168	432.0708		501.3	
		Tu,ka	-307.38	-103.3	-0.359	0	267.345	-534.304	-391.946	-552.353	-204.804	-739.494			-739.49
STORY1	B208	Tu,ki	-241.42	-66.61	0.236	0	255.401	-396.162	-279.695	-432.936	-100.915	-611.717	356.59		
		Lap	287.42	93.365	0	0	10.278	494.288	441.3524	435.1856	448.547	427.991		494.3	
		Tu,ka	-285.93	-94.11	-0.236	0	275.951	-493.803	-354.435	-520.006	-161.27	-713.172			-713.17
GROUND	B208	Tu,ki	-265.28	-76.64	0.131	0	249.597	-440.898	-320.101	-469.859	-145.383	-644.577	332.26		
		Lap	289.03	93.845	0	0	10.666	496.9892	443.882	437.4824	451.3482	430.0162		497	
		Tu,ka	-258.76	-83.08	-0.131	0	270.926	-443.506	-312.312	-474.868	-122.664	-664.516			-664.52

Tabel 5.3. Penulangan Lentur Balok Arah X

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	ρ	ρ_{min}	ρ_{max}	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As	As'	As'	
ROOF	B32	600	737.5	75.1056	0.2877	0.0007	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	76.7017	0.2938	0.0007	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	150.2112	0.5754	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY10	B32	600	737.5	145.8523	0.5587	0.0014	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	80.9409	0.3100	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	291.7046	1.1173	0.0029	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY9	B32	600	737.5	152.5447	0.5843	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	89.8844	0.3443	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	305.0894	1.1686	0.0030	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
ROOF	B33	600	737.5	86.8133	0.3325	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	159.5833	0.6113	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	173.6266	0.6650	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY10	B33	600	737.5	138.04175	0.5287	0.0013	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	197.2546	0.7555	0.0019	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	276.0835	1.0575	0.0027	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY9	B33	600	737.5	148.94765	0.5705	0.0014	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	196.0635	0.7510	0.0019	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	297.8953	1.1410	0.0029	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
ROOF	B34	600	737.5	92.92665	0.3559	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	124.115	0.4754	0.0012	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	185.8533	0.7119	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY10	B34	600	737.5	133.7601	0.5123	0.0013	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	162.1136	0.6209	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	267.5202	1.0247	0.0026	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY9	B34	600	737.5	147.3193	0.5643	0.0014	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	161.9869	0.6205	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	294.6386	1.1286	0.0029	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
ROOF	B35	600	737.5	92.92665	0.3559	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	124.115	0.4754	0.0012	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	185.8533	0.7119	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY10	B35	600	737.5	133.7601	0.5123	0.0013	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	162.1136	0.6209	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	267.5202	1.0247	0.0026	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	ρ	ρmin	ρmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
STORY9	B35	600	737.5	147.3193	0.5643	0.0014	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	161.9869	0.6205	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	294.6386	1.1286	0.0029	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
ROOF	B36	600	737.5	86.8133	0.3325	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	159.5833	0.6113	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	173.6266	0.6650	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY10	B36	600	737.5	138.0418	0.5287	0.0013	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	197.2546	0.7555	0.0019	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	276.0835	1.0575	0.0027	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY9	B36	600	737.5	148.9477	0.5705	0.0014	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	196.0635	0.7510	0.0019	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	297.8953	1.1410	0.0029	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
ROOF	B37	600	737.5	75.1056	0.2877	0.0007	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	76.7017	0.2938	0.0007	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	150.2112	0.5754	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY10	B37	600	737.5	145.8523	0.5587	0.0014	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	80.9409	0.3100	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	291.7046	1.1173	0.0029	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY9	B37	600	737.5	152.5446	0.5843	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	89.8844	0.3443	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	305.0891	1.1686	0.0030	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY8	B171	600	737.5	172.1404	0.6594	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	86.4020	0.3309	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	344.2808	1.3187	0.0034	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY7	B171	600	737.5	187.3071	0.7174	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	93.6535	0.3587	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	374.6141	1.4349	0.0037	0.0035	0.0203	1644.8965	1964.29	982.14	4	D25	2	D25
STORY6	B171	600	737.5	183.1110	0.7014	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	91.5555	0.3507	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	366.2220	1.4027	0.0036	0.0035	0.0203	1606.6947	1964.29	982.14	4	D25	2	D25
STORY5	B171	600	737.5	186.0094	0.7125	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	93.0047	0.3562	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	372.0187	1.4249	0.0037	0.0035	0.0203	1633.0748	1964.29	982.14	4	D25	2	D25

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	ρ	ρmin	ρmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
STORY4	B171	600	737.5	193.4360	0.7409	0.0019	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	94.0288	0.3602	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	376.1152	1.4406	0.0037	0.0035	0.0203	1651.7367	1964.29	982.14	4	D25	2	D25
STORY3	B171	600	737.5	195.0782	0.7472	0.0019	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	91.0068	0.3486	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	364.0271	1.3943	0.0036	0.0035	0.0203	1596.7143	1964.29	982.14	4	D25	2	D25
STORY2	B171	600	737.5	192.3588	0.7368	0.0019	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	89.5766	0.3431	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	358.3064	1.3724	0.0035	0.0035	0.0203	1570.7230	1964.29	982.14	4	D25	2	D25
STORY1	B171	600	737.5	179.0180	0.6857	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	86.3168	0.3306	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	332.1934	1.2724	0.0033	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
GROUND	B171	600	737.5	143.0709	0.5480	0.0014	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	86.7703	0.3324	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	286.1418	1.0960	0.0028	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY8	B172	600	737.5	164.3389	0.6295	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	187.9337	0.7198	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	328.6777	1.2589	0.0032	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY7	B172	600	737.5	179.2121	0.6864	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	181.2580	0.6943	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	358.4242	1.3729	0.0036	0.0035	0.0203	1571.2579	1964.29	982.14	4	D25	2	D25
STORY6	B1/2	600	737.5	179.6414	0.6881	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	180.5317	0.6915	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	359.2828	1.3762	0.0036	0.0035	0.0203	1575.1570	1964.29	982.14	4	D25	2	D25
STORY5	B172	600	737.5	184.7719	0.7077	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	173.9238	0.6662	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	369.5437	1.4155	0.0037	0.0035	0.0203	1621.8075	1964.29	982.14	4	D25	2	D25
STORY4	B172	600	737.5	190.2342	0.7287	0.0019	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	169.5842	0.6496	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	380.4684	1.4573	0.0038	0.0035	0.0203	1671.5855	1964.29	982.14	4	D25	2	D25
STORY3	B172	600	737.5	188.1380	0.7206	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	165.6798	0.6346	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	376.2760	1.4413	0.0037	0.0035	0.0203	1652.4696	1964.29	982.14	4	D25	2	D25

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	ρ	pmin	pmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
STORY2	B172	600	737.5	189.2215	0.7248	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	162.8788	0.6239	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	378.4429	1.4496	0.0038	0.0035	0.0203	1662.3478	1964.29	982.14	4	D25	2	D25
STORY1	B172	600	737.5	181.0769	0.6936	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	160.2301	0.6137	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	362.1538	1.3872	0.0036	0.0035	0.0203	1588.1998	1964.29	982.14	4	D25	2	D25
GROUND	B172	600	737.5	165.8444	0.6352	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	159.6878	0.6117	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	331.6888	1.2705	0.0033	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY8	B173	600	737.5	152.6595	0.5847	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	160.6974	0.6155	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	305.3190	1.1695	0.0030	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY7	B173	600	737.5	160.2241	0.6137	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	159.5569	0.6112	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	320.4482	1.2274	0.0032	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY6	B173	600	737.5	166.3105	0.6370	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	158.8559	0.6085	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	332.6210	1.2740	0.0033	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY5	B173	600	737.5	167.7223	0.6424	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	157.5683	0.6035	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	335.4445	1.2849	0.0033	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY4	B173	600	737.5	173.0883	0.6630	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	156.5752	0.5997	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	346.1766	1.3260	0.0034	0.0035	0.0203	1548.7500	1964.29	1473.21	4	D25	3	D25
STORY3	B173	600	737.5	173.6122	0.6650	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	155.6841	0.5963	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	347.2244	1.3300	0.0034	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY2	B173	600	737.5	178.0047	0.6818	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	155.0187	0.5938	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	356.0094	1.3636	0.0035	0.0035	0.0203	1560.2955	1964.29	982.14	4	D25	2	D25
STORY1	B173	600	737.5	174.3841	0.6679	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	154.4994	0.5918	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	348.7682	1.3359	0.0035	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	ρ	pmin	pmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As	As'	As	As'
GROUND	B173	600	737.5	166.1408	0.6364	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	154.0457	0.5900	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	332.2815	1.2727	0.0033	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY8	B174	600	737.5	152.6595	0.5847	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	160.6974	0.6155	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	305.3190	1.1695	0.0030	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY7	B174	600	737.5	160.2241	0.6137	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	159.5569	0.6112	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	320.4482	1.2274	0.0032	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY6	B174	600	737.5	166.3105	0.6370	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	158.8559	0.6085	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	332.6210	1.2740	0.0033	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY5	B174	600	737.5	167.7223	0.6424	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	157.5683	0.6035	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	335.4445	1.2849	0.0033	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY4	B174	600	737.5	173.0883	0.6630	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	156.5752	0.5997	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	346.1766	1.3260	0.0034	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY3	B174	600	737.5	173.6122	0.6650	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	155.6841	0.5963	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	347.2244	1.3300	0.0034	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY2	B174	600	737.5	178.0047	0.6818	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	155.0187	0.5938	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	356.0094	1.3636	0.0035	0.0035	0.0203	1560.2955	1964.29	982.14	4	D25	2	D25
STORY1	B174	600	737.5	174.3841	0.6679	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	154.4994	0.5918	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	348.7682	1.3359	0.0035	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
GROUND	B174	600	737.5	166.1408	0.6364	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	154.0457	0.5900	0.0015	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	332.2815	1.2727	0.0033	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY8	B175	600	737.5	164.3389	0.6295	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	187.9337	0.7198	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	328.6777	1.2589	0.0032	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	ρ	ρmin	ρmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
STORY7	B175	600	737.5	179.2121	0.6864	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	181.2580	0.6943	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	358.4242	1.3729	0.0036	0.0035	0.0203	1571.2579	1964.29	982.14	4	D25	2	D25
STORY6	B175	600	737.5	179.6414	0.6881	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	180.5317	0.6915	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	359.2828	1.3762	0.0036	0.0035	0.0203	1575.1570	1964.29	982.14	4	D25	2	D25
STORY5	B175	600	737.5	184.7719	0.7077	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	173.9238	0.6662	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	369.5437	1.4155	0.0037	0.0035	0.0203	1621.8075	1964.29	982.14	4	D25	2	D25
STORY4	B175	600	737.5	190.2341	0.7287	0.0019	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	169.5842	0.6496	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	380.4681	1.4573	0.0038	0.0035	0.0203	1671.5841	1964.29	982.14	4	D25	2	D25
STORY3	B175	600	737.5	188.1380	0.7206	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	165.6798	0.6346	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	376.2760	1.4413	0.0037	0.0035	0.0203	1652.4696	1964.29	982.14	4	D25	2	D25
STORY2	B175	600	737.5	189.2215	0.7248	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	162.8788	0.6239	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	378.4429	1.4496	0.0038	0.0035	0.0203	1662.3478	1964.29	982.14	4	D25	2	D25
STORY1	B175	600	737.5	181.0769	0.6936	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	160.2301	0.6137	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	362.1538	1.3872	0.0036	0.0035	0.0203	1588.1998	1964.29	982.14	4	D25	2	D25
GROUND	B175	600	737.5	165.8444	0.6352	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	159.6878	0.6117	0.0016	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	331.6888	1.2705	0.0033	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY8	B176	600	737.5	172.1404	0.6594	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	86.4020	0.3309	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	344.2808	1.3187	0.0034	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY7	B176	600	737.5	187.3071	0.7174	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	93.6535	0.3587	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	374.6141	1.4349	0.0037	0.0035	0.0203	1644.8965	1964.29	982.14	4	D25	2	D25
STORY6	B176	600	737.5	183.1110	0.7014	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	91.5555	0.3507	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	366.2220	1.4027	0.0036	0.0035	0.0203	1606.6947	1964.29	982.14	4	D25	2	D25

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	ρ	ρmin	ρmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
STORY5	B176	600	737.5	186.0094	0.7125	0.0018	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	93.0047	0.3562	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	372.0187	1.4249	0.0037	0.0035	0.0203	1633.0748	1964.29	982.14	4	D25	2	D25
STORY4	B176	600	737.5	193.4360	0.7409	0.0019	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	94.0288	0.3602	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	376.1152	1.4406	0.0037	0.0035	0.0203	1651.7367	1964.29	982.14	4	D25	2	D25
STORY3	B176	600	737.5	195.0785	0.7472	0.0019	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	91.0068	0.3486	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	364.0271	1.3943	0.0036	0.0035	0.0203	1596.7143	1964.29	982.14	4	D25	2	D25
STORY2	B176	600	737.5	192.3588	0.7368	0.0019	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	89.5766	0.3431	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	358.3064	1.3724	0.0035	0.0035	0.0203	1570.7230	1964.29	982.14	4	D25	2	D25
STORY1	B176	600	737.5	179.0180	0.6857	0.0017	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	86.3168	0.3306	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	332.1934	1.2724	0.0033	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
GROUND	B176	600	737.5	143.0711	0.5480	0.0014	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	86.7703	0.3324	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	286.1421	1.0960	0.0028	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
ATAP	B88	600	737.5	15.7192	0.0602	0.0002	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	7.8596	0.0301	0.0001	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	31.4384	0.1204	0.0003	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY4	B88	600	737.5	36.8520	0.1412	0.0004	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	18.4260	0.0706	0.0002	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	73.7039	0.2823	0.0007	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY3	B358	600	737.5	56.2149	0.2153	0.0005	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	22.6808	0.0869	0.0002	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	90.7231	0.3475	0.0009	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY2	B88	600	737.5	74.0122	0.2835	0.0007	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	26.4073	0.1011	0.0003	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	105.6293	0.4046	0.0010	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY1	B88	600	737.5	78.9101	0.3023	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	26.0531	0.0998	0.0003	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	104.2123	0.3992	0.0010	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25

Tabel 5.4. Penulangan Lentur Balok Arah Y

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	p	pmin	pmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As	As'	As'	
ROOF	B67	700	937.5	251.1873	0.5103	0.0013	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	722.8698	1.4687	0.0038	0.0035	0.0203	2499.1402	2946.43	1473.21	6	D25	3	D25
		700	937.5	502.3746	1.0207	0.0026	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY10	B67	700	937.5	406.16245	0.8252	0.0021	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	882.9237	1.7939	0.0047	0.0035	0.0203	3079.0462	3437.50	1964.29	7	D25	4	D25
		700	937.5	812.3249	1.6504	0.0043	0.0035	0.0203	2821.9594	2946.43	1473.21	6	D25	3	D25
STORY9	B67	700	937.5	410.0459	0.8331	0.0021	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	884.7899	1.7977	0.0047	0.0035	0.0203	3085.8702	3437.50	1964.29	7	D25	4	D25
		700	937.5	820.0918	1.6662	0.0043	0.0035	0.0203	2850.1417	2946.43	1473.21	6	D25	3	D25
ROOF	B68	700	937.5	230.98065	0.4693	0.0012	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	305.7684	0.6212	0.0016	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	461.9613	0.9386	0.0024	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY10	B68	700	937.5	308.7902	0.6274	0.0016	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	433.186	0.8801	0.0022	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	617.5804	1.2548	0.0032	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY9	B68	700	937.5	321.7594	0.6537	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	427.484	0.8685	0.0022	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	643.5188	1.3075	0.0034	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
ROOF	B69	700	937.5	219.60995	0.4462	0.0011	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	329.138	0.6687	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	439.2199	0.8924	0.0023	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY10	B69	700	937.5	294.9762	0.5993	0.0015	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	459.9727	0.9345	0.0024	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	589.9524	1.1986	0.0031	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY9	B69	700	937.5	311.3087	0.6325	0.0016	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	461.9622	0.9386	0.0024	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	622.6174	1.2650	0.0033	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
ROOF	B70	700	937.5	200.7533	0.4079	0.0010	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	390.0268	0.7924	0.0020	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	401.5066	0.8158	0.0021	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY10	B70	700	937.5	279.9905	0.5689	0.0014	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	511.649	1.0395	0.0027	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	559.981	1.1377	0.0029	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	ρ	ρmin	ρmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
GROUND	B88	600	737.5	59.8107	0.2291	0.0006	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	20.0855	0.0769	0.0002	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	80.3420	0.3077	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
ATAP	B169	600	737.5	18.3536	0.0703	0.0002	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	9.1768	0.0351	0.0001	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	36.7071	0.1406	0.0004	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY4	B258	600	737.5	41.7951	0.1601	0.0004	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	20.8976	0.0800	0.0002	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	83.5902	0.3202	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY3	B377	600	737.5	39.7104	0.1521	0.0004	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	19.8552	0.0761	0.0002	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	79.4207	0.3042	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY2	B169	600	737.5	39.6958	0.1520	0.0004	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	19.8479	0.0760	0.0002	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	79.3916	0.3041	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY1	B258	600	737.5	37.6492	0.1442	0.0004	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	18.8246	0.0721	0.0002	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	75.2984	0.2884	0.0007	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
GROUND	B258	600	737.5	37.6710	0.1443	0.0004	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	18.8355	0.0721	0.0002	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	75.3420	0.2886	0.0007	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
ATAP	B171	600	737.5	18.3536	0.0703	0.0002	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	9.1768	0.0351	0.0001	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	36.7071	0.1406	0.0004	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY4	B260	600	737.5	41.7951	0.1601	0.0004	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	20.8976	0.0800	0.0002	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	83.5902	0.3202	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY3	B379	600	737.5	39.7104	0.1521	0.0004	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	19.8552	0.0761	0.0002	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	79.4207	0.3042	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
STORY2	B171	600	737.5	39.6958	0.1520	0.0004	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	19.8479	0.0760	0.0002	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25
		600	737.5	79.3916	0.3041	0.0008	0.0035	0.0203	1548.7500	1964.29	982.14	4	D25	2	D25

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	ρ	ρmin	ρmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
STORY9	B70	700	937.5	297.1271	0.6037	0.0015	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	507.7026	1.0315	0.0026	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	594.2542	1.2074	0.0031	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
ROOF	B71	700	937.5	142.5650	0.2897	0.0007	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	488.3855	0.9923	0.0025	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	285.1300	0.5793	0.0015	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY10	B71	700	937.5	283.2127	0.5754	0.0015	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	583.8115	1.1862	0.0031	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	566.4254	1.1508	0.0030	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY9	B71	700	937.5	293.7607	0.5968	0.0015	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	590.3712	1.1995	0.0031	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	587.5214	1.1937	0.0031	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY8	B204	700	937.5	456.6787	0.9279	0.0024	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	849.8171	1.7266	0.0045	0.0035	0.0203	2958.2300	2946.43	1473.21	6	D25	3	D25
		700	937.5	913.3574	1.8557	0.0049	0.0035	0.0203	3190.5147	3437.50	1964.29	7	D25	4	D25
STORY7	B204	700	937.5	494.2481	1.0042	0.0026	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	822.7106	1.6715	0.0044	0.0035	0.0203	2859.6496	2946.43	1473.21	6	D25	3	D25
		700	937.5	988.4962	2.0084	0.0053	0.0035	0.0203	3467.4178	3437.50	1964.29	7	D25	4	D25
STORY6	B204	700	937.5	481.8651	0.9790	0.0025	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	819.9983	1.6660	0.0043	0.0035	0.0203	2849.8023	2946.43	1473.21	6	D25	3	D25
		700	937.5	963.7302	1.9581	0.0051	0.0035	0.0203	3375.8806	3437.50	1964.29	7	D25	4	D25
STORY5	B204	700	937.5	496.2583	1.0083	0.0026	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	790.0316	1.6051	0.0042	0.0035	0.0203	2741.2054	2946.43	1473.21	6	D25	3	D25
		700	937.5	992.5166	2.0165	0.0053	0.0035	0.0203	3482.3028	3437.50	1964.29	7	D25	4	D25
STORY4	B204	700	937.5	506.1756	1.0284	0.0026	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	770.0043	1.5645	0.0041	0.0035	0.0203	2668.8324	2946.43	1473.21	6	D25	3	D25
		700	937.5	1012.3512	2.0568	0.0054	0.0035	0.0203	3555.8410	3928.57	1964.29	8	D25	4	D25
STORY3	B204	700	937.5	500.3173	1.0165	0.0026	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	748.6882	1.5211	0.0039	0.0035	0.0203	2591.9803	2946.43	1473.21	6	D25	3	D25
		700	937.5	1000.6346	2.0330	0.0054	0.0035	0.0203	3512.3800	3928.57	1964.29	8	D25	4	D25
STORY2	B204	700	937.5	500.8336	1.0176	0.0026	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	731.6370	1.4865	0.0039	0.0035	0.0203	2530.6362	2946.43	1473.21	6	D25	3	D25
		700	937.5	1001.6672	2.0351	0.0054	0.0035	0.0203	3516.2078	3928.57	1964.29	8	D25	4	D25

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	ρ	ρmin	ρmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
STORY1	B204	700	937.5	487.1173	0.9897	0.0025	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	711.4233	1.4454	0.0037	0.0035	0.0203	2458.0650	2455.36	1473.21	5	D25	3	D25
		700	937.5	974.2346	1.9794	0.0052	0.0035	0.0203	3414.6732	3437.50	1964.29	7	D25	4	D25
GROUND	B204	700	937.5	494.0367	1.0038	0.0026	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	704.3842	1.4311	0.0037	0.0035	0.0203	2432.8313	2455.36	1473.21	5	D25	3	D25
		700	937.5	988.0734	2.0075	0.0053	0.0035	0.0203	3465.8529	3437.50	1964.29	7	D25	4	D25
STORY8	B205	700	937.5	330.6446	0.6718	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	438.8806	0.8917	0.0023	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	661.2892	1.3436	0.0035	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY7	B205	700	937.5	342.9295	0.6967	0.0018	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	446.3539	0.9069	0.0023	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	685.8590	1.3935	0.0036	0.0035	0.0203	2366.5161	2455.36	1473.21	5	D25	3	D25
STORY6	B205	700	937.5	343.7057	0.6983	0.0018	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	439.5532	0.8931	0.0023	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	687.4114	1.3966	0.0036	0.0035	0.0203	2372.0681	2455.36	1473.21	5	D25	3	D25
STORY5	B205	700	937.5	343.4105	0.6977	0.0018	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	446.2551	0.9067	0.0023	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	686.8210	1.3954	0.0036	0.0035	0.0203	2369.9565	2455.36	1473.21	5	D25	3	D25
STORY4	B205	700	937.5	348.4993	0.7081	0.0018	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	448.7510	0.9117	0.0023	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	696.9986	1.4161	0.0037	0.0035	0.0203	2406.3766	2455.36	1473.21	5	D25	3	D25
STORY3	B205	700	937.5	344.2022	0.6993	0.0018	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	451.4680	0.9173	0.0023	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	688.4044	1.3987	0.0036	0.0035	0.0203	2375.6199	2455.36	1473.21	5	D25	3	D25
STORY2	B205	700	937.5	347.5930	0.7062	0.0018	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	453.0539	0.9205	0.0024	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	695.1860	1.4124	0.0037	0.0035	0.0203	2399.8873	2455.36	1473.21	5	D25	3	D25
STORY1	B205	700	937.5	345.5999	0.7022	0.0018	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	456.1876	0.9269	0.0024	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	691.1998	1.4043	0.0036	0.0035	0.0203	2385.6208	2455.36	1473.21	5	D25	3	D25
GROUND	B205	700	937.5	352.0612	0.7153	0.0018	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	452.1076	0.9186	0.0023	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	704.1224	1.4306	0.0037	0.0035	0.0203	2431.8932	2455.36	1473.21	5	D25	3	D25

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	ρ	pmin	pmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
STORY8	B206	700	937.5	317.5846	0.6453	0.0016	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	462.7742	0.9402	0.0024	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	635.1692	1.2905	0.0033	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY7	B206	700	937.5	328.2535	0.6669	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	463.9555	0.9426	0.0024	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	656.5070	1.3339	0.0034	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY6	B206	700	937.5	333.4322	0.6774	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	466.1327	0.9471	0.0024	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	666.8644	1.3549	0.0035	0.0035	0.0203	2298.6608	2455.36	1473.21	5	D25	3	D25
STORY5	B206	700	937.5	333.2145	0.6770	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	467.3152	0.9495	0.0024	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	666.4290	1.3540	0.0035	0.0035	0.0203	2297.1071	2455.36	1473.21	5	D25	3	D25
STORY4	B206	700	937.5	339.8011	0.6904	0.0018	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	468.7016	0.9523	0.0024	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	679.6022	1.3808	0.0036	0.0035	0.0203	2344.1490	2455.36	1473.21	5	D25	3	D25
STORY3	B206	700	937.5	337.9099	0.6865	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	469.7578	0.9544	0.0024	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	675.8198	1.3731	0.0036	0.0035	0.0203	2330.6350	2455.36	1473.21	5	D25	3	D25
STORY2	B206	700	937.5	343.9928	0.6989	0.0018	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	470.6485	0.9562	0.0024	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	687.9856	1.3978	0.0036	0.0035	0.0203	2374.1219	2455.36	1473.21	5	D25	3	D25
STORY1	B206	700	937.5	339.7712	0.6903	0.0018	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	471.0534	0.9571	0.0024	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	679.5424	1.3807	0.0036	0.0035	0.0203	2343.9353	2455.36	1473.21	5	D25	3	D25
GROUND	B206	700	937.5	331.4583	0.6734	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	472.1675	0.9593	0.0025	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	662.9166	1.3469	0.0035	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY8	B207	700	937.5	303.9494	0.6175	0.0016	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	503.6687	1.0233	0.0026	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	607.8988	1.2351	0.0032	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY7	B207	700	937.5	315.5945	0.6412	0.0016	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	499.2981	1.0144	0.0026	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	631.1890	1.2824	0.0033	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	ρ	ρmin	ρmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
STORY6	B207	700	937.5	322.8399	0.6559	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	494.6422	1.0050	0.0026	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	645.6798	1.3119	0.0034	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY5	B207	700	937.5	324.1125	0.6585	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	489.5516	0.9946	0.0025	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	648.2250	1.3170	0.0034	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY4	B207	700	937.5	332.2521	0.6751	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	484.9261	0.9852	0.0025	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	664.5042	1.3501	0.0035	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY3	B207	700	937.5	331.9765	0.6745	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	480.7827	0.9768	0.0025	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	663.9530	1.3490	0.0035	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY2	B207	700	937.5	339.5628	0.6899	0.0018	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	477.5323	0.9702	0.0025	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	679.1256	1.3798	0.0036	0.0035	0.0203	2342.4459	2455.36	1473.21	5	D25	3	D25
STORY1	B207	700	937.5	336.7877	0.6843	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	475.1079	0.9653	0.0025	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	673.5754	1.3685	0.0035	0.0035	0.0203	2322.6187	2455.36	1473.21	5	D25	3	D25
GROUND	B207	700	937.5	330.3346	0.6712	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	472.4433	0.9599	0.0025	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	660.6692	1.3423	0.0035	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY8	B208	700	937.5	331.6132	0.6738	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	561.4300	1.1407	0.0029	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	663.2264	1.3475	0.0035	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
STORY7	B208	700	937.5	363.0627	0.7377	0.0019	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	540.6400	1.0984	0.0028	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	726.1254	1.4753	0.0038	0.0035	0.0203	2510.8323	2946.43	1473.21	6	D25	3	D25
STORY6	B208	700	937.5	355.2826	0.7218	0.0018	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	545.8896	1.1091	0.0028	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	710.5652	1.4437	0.0037	0.0035	0.0203	2454.9878	2455.36	1473.21	5	D25	3	D25
STORY5	B208	700	937.5	366.1248	0.7439	0.0019	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	526.7337	1.0702	0.0027	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	732.2496	1.4877	0.0039	0.0035	0.0203	2532.8381	2946.43	1473.21	6	D25	3	D25

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	ρ	ρ_{min}	ρ_{max}	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
STORY4	B208	700	937.5	374.6756	0.7612	0.0019	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	516.5574	1.0495	0.0027	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	749.3512	1.5225	0.0040	0.0035	0.0203	2594.3679	2946.43	1473.21	6	D25	3	D25
STORY3	B208	700	937.5	369.3155	0.7504	0.0019	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	507.3567	1.0308	0.0026	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	738.6310	1.5007	0.0039	0.0035	0.0203	2555.7840	2946.43	1473.21	6	D25	3	D25
STORY2	B208	700	937.5	369.7470	0.7512	0.0019	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	501.2609	1.0184	0.0026	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	739.4940	1.5025	0.0039	0.0035	0.0203	2558.8884	2946.43	1473.21	6	D25	3	D25
STORY1	B208	700	937.5	356.5858	0.7245	0.0018	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	494.2880	1.0043	0.0026	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	713.1716	1.4490	0.0038	0.0035	0.0203	2464.3353	2455.36	1473.21	5	D25	3	D25
GROUND	B208	700	937.5	332.2580	0.6751	0.0017	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	496.9892	1.0098	0.0026	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25
		700	937.5	664.5160	1.3501	0.0035	0.0035	0.0203	2296.8750	2455.36	1473.21	5	D25	3	D25

Tabel 5.7. Momen Kapasitas Negatif Balok Arah Y

Lantai	No. Elemen	b (mm)	be (mm)	As' (mm ²)	As (mm ²)	d (mm)	d' (mm)	A	B	C1	c (mm)	a (mm)	fs' (MPa)	Mn- (kNm)	Mpr2 (kNm)
ROOF	B67	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY10	B67	700	700	2455.36	2946.43	937.5	62.5	12643.75	294642.86	92075892.86	74.4766	63.3051	96.4861	1060.2979	1325.3724
STORY9	B67	700	700	2455.36	2946.43	937.5	62.5	12643.75	294642.86	92075892.86	74.4766	63.3051	96.4861	1060.2979	1325.3724
ROOF	B68	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY10	B68	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY9	B68	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
ROOF	B69	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY10	B69	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY9	B69	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
ROOF	B70	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY10	B70	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY9	B70	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
ROOF	B71	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY10	B71	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY9	B71	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY8	B204	700	700	2455.36	3437.50	937.5	62.5	12643.75	98214.286	92075892.86	81.5410	69.3098	140.1085	1231.8328	1539.7910
STORY7	B204	700	700	2455.36	3437.50	937.5	62.5	12643.75	98214.286	92075892.86	81.5410	69.3098	140.1085	1231.8328	1539.7910
STORY6	B204	700	700	2455.36	3437.50	937.5	62.5	12643.75	98214.286	92075892.86	81.5410	69.3098	140.1085	1231.8328	1539.7910
STORY5	B204	700	700	2455.36	3437.50	937.5	62.5	12643.75	98214.286	92075892.86	81.5410	69.3098	140.1085	1231.8328	1539.7910
STORY4	B204	700	700	2455.36	3928.57	937.5	62.5	12643.75	-98214.286	92075892.86	89.3088	75.9125	180.1085	1402.7148	1753.3935
STORY3	B204	700	700	2455.36	3928.57	937.5	62.5	12643.75	-98214.286	92075892.86	89.3088	75.9125	180.1085	1402.7148	1753.3935
STORY2	B204	700	700	2455.36	3928.57	937.5	62.5	12643.75	-98214.286	92075892.86	89.3088	75.9125	180.1085	1402.7148	1753.3935
STORY1	B204	700	700	2455.36	3437.50	937.5	62.5	12643.75	98214.286	92075892.86	81.5410	69.3098	140.1085	1231.8328	1539.7910
GROUND	B204	700	700	2455.36	3437.50	937.5	62.5	12643.75	98214.286	92075892.86	81.5410	69.3098	140.1085	1231.8328	1539.7910
STORY8	B205	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY7	B205	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY6	B205	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY5	B205	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY4	B205	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY3	B205	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY2	B205	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY1	B205	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
GROUND	B205	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY8	B206	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY7	B206	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY6	B206	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY5	B206	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366

Lantai	No. Elemen	b (mm)	be (mm)	As' (mm ²)	As (mm ²)	d (mm)	d' (mm)	A	B	C1	c (mm)	a (mm)	fs' (MPa)	Mn- (kNm)	Mpr2 (kNm)
STORY4	B206	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY3	B206	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY2	B206	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY1	B206	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
GROUND	B206	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY8	B207	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY7	B207	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY6	B207	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY5	B207	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY4	B207	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY3	B207	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY2	B207	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY1	B207	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
GROUND	B207	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY8	B208	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY7	B208	700	700	2455.36	2946.43	937.5	62.5	12643.75	294642.86	92075892.86	74.4766	63.3051	96.4861	1060.2979	1325.3724
STORY6	B208	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
STORY5	B208	700	700	2455.36	2946.43	937.5	62.5	12643.75	294642.86	92075892.86	74.4766	63.3051	96.4861	1060.2979	1325.3724
STORY4	B208	700	700	2455.36	2946.43	937.5	62.5	12643.75	294642.86	92075892.86	74.4766	63.3051	96.4861	1060.2979	1325.3724
STORY3	B208	700	700	2455.36	2946.43	937.5	62.5	12643.75	294642.86	92075892.86	74.4766	63.3051	96.4861	1060.2979	1325.3724
STORY2	B208	700	700	2455.36	2946.43	937.5	62.5	12643.75	294642.86	92075892.86	74.4766	63.3051	96.4861	1060.2979	1325.3724
STORY1	B208	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366
GROUND	B208	700	700	2455.36	2455.36	937.5	62.5	12643.75	491071.43	92075892.86	68.0987	57.8839	49.3288	888.2693	1110.3366

Tabel 5.8. Momen Kapasitas Positif Balok Arah Y

Lantai	No. Elemen	b (mm)	be (mm)	As' (mm ²)	As (mm ²)	d (mm)	d' (mm)	A	B	C1	c (mm)	a (mm)	fs' (MPa)	Mn+ (kNm)	Mpr1 (kNm)
ROOF	B67	700	3000	2455.36	2455.36	937.5	62.5	54187.5	491071.43	92075892.86	36.9385369	31.397756	-415.19993	953.052452	1191.31556
STORY10	B67	700	3000	2946.43	2455.36	937.5	62.5	54187.5	785714.29	110491071.4	38.4841949	32.711566	-374.426	955.602411	1194.50301
STORY9	B67	700	3000	2946.43	2455.36	937.5	62.5	54187.5	785714.29	110491071.4	38.4841949	32.711566	-374.426	955.602411	1194.50301
ROOF	B68	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY10	B68	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY9	B68	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
ROOF	B69	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY10	B69	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY9	B69	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
ROOF	B70	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY10	B70	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY9	B70	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
ROOF	B71	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY10	B71	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY9	B71	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY8	B204	700	3000	3437.50	2455.36	937.5	62.5	54187.5	1080357.1	128906250	39.8135081	33.841482	-341.89138	957.707441	1197.1343
STORY7	B204	700	3000	3437.50	2455.36	937.5	62.5	54187.5	1080357.1	128906250	39.8135081	33.841482	-341.89138	957.707441	1197.1343
STORY6	B204	700	3000	3437.50	2455.36	937.5	62.5	54187.5	1080357.1	128906250	39.8135081	33.841482	-341.89138	957.707441	1197.1343
STORY5	B204	700	3000	3437.50	2455.36	937.5	62.5	54187.5	1080357.1	128906250	39.8135081	33.841482	-341.89138	957.707441	1197.1343
STORY4	B204	700	3000	3928.57	2455.36	937.5	62.5	54187.5	1375000	147321428.6	40.9754585	34.82914	-315.18195	959.48078	1199.35098
STORY3	B204	700	3000	3928.57	2455.36	937.5	62.5	54187.5	1375000	147321428.6	40.9754585	34.82914	-315.18195	959.48078	1199.35098
STORY2	B204	700	3000	3928.57	2455.36	937.5	62.5	54187.5	1375000	147321428.6	40.9754585	34.82914	-315.18195	959.48078	1199.35098
STORY1	B204	700	3000	3437.50	2455.36	937.5	62.5	54187.5	1080357.1	128906250	39.8135081	33.841482	-341.89138	957.707441	1197.1343
GROUND	B204	700	3000	3437.50	2455.36	937.5	62.5	54187.5	1080357.1	128906250	39.8135081	33.841482	-341.89138	957.707441	1197.1343
STORY8	B205	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY7	B205	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY6	B205	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY5	B205	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY4	B205	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY3	B205	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY2	B205	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY1	B205	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
GROUND	B205	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY8	B206	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY7	B206	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY6	B206	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193

Lantai	No. Elemen	b (mm)	be (mm)	As' (mm ²)	As (mm ²)	d (mm)	d' (mm)	A	B	C1	c (mm)	a (mm)	fs' (MPa)	Mn+ (kNm)	Mpr1 (kNm)
STORY5	B206	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY4	B206	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY3	B206	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY2	B206	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY1	B206	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
GROUND	B206	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY8	B207	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY7	B207	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY6	B207	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY5	B207	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY4	B207	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY3	B207	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY2	B207	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY1	B207	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
GROUND	B207	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY8	B208	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY7	B208	700	2250	2946.43	2455.36	937.5	62.5	40640.625	785714.29	110491071.4	43.3633603	36.858856	-264.78538	937.041189	1171.30149
STORY6	B208	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
STORY5	B208	700	2250	2946.43	2455.36	937.5	62.5	40640.625	785714.29	110491071.4	43.3633603	36.858856	-264.78538	937.041189	1171.30149
STORY4	B208	700	2250	2946.43	2455.36	937.5	62.5	40640.625	785714.29	110491071.4	43.3633603	36.858856	-264.78538	937.041189	1171.30149
STORY3	B208	700	2250	2946.43	2455.36	937.5	62.5	40640.625	785714.29	110491071.4	43.3633603	36.858856	-264.78538	937.041189	1171.30149
STORY2	B208	700	2250	2946.43	2455.36	937.5	62.5	40640.625	785714.29	110491071.4	43.3633603	36.858856	-264.78538	937.041189	1171.30149
STORY1	B208	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193
GROUND	B208	700	2250	2455.36	2455.36	937.5	62.5	40640.625	491071.43	92075892.86	41.9387121	35.647905	-294.16194	935.521546	1169.40193

Tabel 5.9. Gaya Geser Rencana Balok Arah X

Lantai	No. Elemen	L	Dimensi		d (mm)	Ln (mm)	VD,b (kN)	VL,b (kN)	VE,b (kN)	Mpr1+ (kNm)	Mpr2- (kNm)	Vu,b (kN)	Wu/2 (kN)	Vu,b ki (kN)	Vu,b ka (kN)	Vu,b terpakai (kN)	
			b(mm)	h(mm)												pada s.p	diluar s.p
ROOF	B32	6000	600	800	737.5	5400	74.22	19.66	7.71	729.37	693.77	263.545	54.362	317.907	209.183	303.058	285.693
STORY10	B32	6000	600	800	737.5	5400	93.93	29.62	20.81	729.37	693.77	263.545	71.168	334.713	192.377	315.274	292.540
STORY9	B32	6000	600	800	737.5	5400	88.66	28.16	33.69	729.37	693.77	263.545	67.276	330.821	196.269	312.445	290.954
ROOF	B33	8000	600	800	737.5	7400	96.87	14.77	9.79	745.19	693.77	194.454	65.507	259.961	128.947	246.904	231.634
STORY10	B33	8000	600	800	737.5	7400	114.64	34.70	19.26	745.19	693.77	194.454	86.134	280.588	108.320	263.420	243.341
STORY9	B33	8000	600	800	737.5	7400	114.08	34.43	26.03	745.19	693.77	194.454	85.663	280.117	108.791	263.042	243.074
ROOF	B34	8000	600	800	737.5	7400	93.17	11.88	6.99	745.19	693.77	194.454	61.842	256.296	132.612	243.970	229.554
STORY10	B34	8000	600	800	737.5	7400	107.96	32.45	17.40	745.19	693.77	194.454	81.001	275.455	113.453	259.310	240.428
STORY9	B34	8000	600	800	737.5	7400	107.93	32.51	24.60	745.19	693.77	194.454	81.013	275.467	113.441	259.319	240.434
ROOF	B35	8000	600	800	737.5	7400	96.60	13.81	6.99	745.19	693.77	194.454	64.865	259.319	129.589	246.390	231.269
STORY10	B35	8000	600	800	737.5	7400	109.81	32.45	17.40	745.19	693.77	194.454	82.111	276.565	112.343	260.198	241.058
STORY9	B35	8000	600	800	737.5	7400	109.84	32.51	24.6	745.188	693.77	194.454	82.159	276.613	112.295	260.237	241.085
ROOF	B36	8000	600	800	737.5	7400	92.89	10.92	9.79	745.188	693.77	194.454	61.194	255.648	133.260	243.451	229.186
STORY10	B36	8000	600	800	737.5	7400	114.64	34.70	19.26	745.188	693.77	194.454	86.134	280.588	108.320	263.420	243.341
STORY9	B36	8000	600	800	737.5	7400	114.08	34.43	26.03	745.188	693.77	194.454	85.663	280.117	108.791	263.042	243.074
ROOF	B37	6000	600	800	737.5	5400	74.22	19.66	7.71	729.372	693.77	263.545	54.362	317.907	209.183	303.058	285.693
STORY10	B37	6000	600	800	737.5	5400	93.93	29.62	20.81	729.37	693.77	263.545	71.168	334.713	192.377	315.274	292.540
STORY9	B37	6000	600	800	737.5	5400	88.66	28.16	33.69	729.37	693.77	263.545	67.276	330.821	196.269	312.445	290.954
STORY8	B171	6000	600	800	737.5	5300	94.36	31.14	40.83	729.37	693.77	268.518	72.186	340.704	196.332	320.614	297.120
STORY7	B171	6000	600	800	737.5	5300	98.10	32.89	46.61	729.37	693.77	268.518	75.305	343.823	193.213	322.865	298.356
STORY6	B171	6000	600	800	737.5	5300	91.55	29.96	54.35	729.37	693.77	268.518	69.910	338.428	198.608	318.972	296.218
STORY5	B171	6000	600	800	737.5	5200	91.61	30.04	60.44	729.37	693.77	273.682	69.986	343.668	203.696	323.816	300.599
STORY4	B171	6000	600	800	737.5	5200	89.84	28.97	66.21	729.37	693.77	273.682	68.389	342.071	205.293	322.672	299.985
STORY3	B171	6000	600	800	737.5	5100	85.54	26.84	72.95	729.37	693.77	279.048	64.744	343.792	214.304	325.067	303.168
STORY2	B171	6000	600	800	737.5	5100	81.30	24.45	79.11	729.37	693.77	279.048	61.005	340.053	218.043	322.409	301.775
STORY1	B171	6000	600	800	737.5	5000	75.03	21.20	83.52	729.37	693.77	284.629	55.618	340.247	229.011	323.839	304.651
GROUND	B171	6000	600	800	737.5	5000	67.55	17.32	78.17	729.37	693.77	284.629	49.190	333.819	235.439	319.308	302.337

Lantai	No. Elemen	L	Dimensi		d (mm)	Ln (mm)	VD,b (kN)	VL,b (kN)	VE,b (kN)	Mpr1+ (kNm)	Mpr2- (kNm)	Vu,b (kN)	Wu/2 (kN)	Vu,b ki (kN)	Vu,b ka (kN)	Vu,b terpakai (kN)	
			b(mm)	h(mm)												pada s.p	diluar s.p
STORY8	B172	8000	600	800	737.5	7300	115.52	35.36	31.75	745.19	693.77	197.118	86.992	284.110	110.126	266.533	245.976
STORY7	B172	8000	600	800	737.5	7300	116.96	36.05	36.01	745.19	693.77	197.118	88.201	285.319	108.917	267.497	246.655
STORY6	B172	8000	600	800	737.5	7300	115.31	35.28	38.98	745.19	693.77	197.118	86.826	283.944	110.292	266.400	245.883
STORY5	B172	8000	600	800	737.5	7200	114.97	35.42	42.54	745.19	693.77	199.856	86.692	286.548	113.164	268.788	248.018
STORY4	B172	8000	600	800	737.5	7200	114.63	35.29	45.18	745.19	693.77	199.856	86.423	286.279	113.433	268.574	247.868
STORY3	B172	8000	600	800	737.5	7100	112.86	34.75	47.80	745.19	693.77	202.670	85.091	287.761	117.579	270.084	249.411
STORY2	B172	8000	600	800	737.5	7100	111.64	34.20	49.80	745.19	693.77	202.670	84.084	286.754	118.586	269.286	248.857
STORY1	B172	8000	600	800	737.5	7000	109.15	33.32	50.39	745.19	693.77	205.566	82.150	287.716	123.416	270.406	250.161
GROUND	B172	8000	600	800	737.5	7000	106.98	32.33	45.21	745.19	693.77	205.566	80.353	285.919	125.213	268.987	249.186
STORY8	B173	8000	600	800	737.5	7300	108.78	32.29	30.36	745.19	693.77	197.118	81.413	278.531	115.705	262.081	242.843
STORY7	B173	8000	600	800	737.5	7300	108.51	32.18	34.69	745.19	693.77	197.118	81.196	278.314	115.922	261.908	242.721
STORY6	B173	8000	600	800	737.5	7300	108.46	32.16	37.95	745.188	693.772	197.118	81.156	278.274	115.962	261.876	242.699
STORY5	B173	8000	600	800	737.5	7200	107.46	31.97	41.6	745.188	693.772	199.856	80.461	280.317	119.395	263.833	244.556
STORY4	B173	8000	600	800	737.5	7200	107.47	31.99	44.4	745.188	693.772	199.856	80.477	280.333	119.379	263.846	244.565
STORY3	B173	8000	600	800	737.5	7100	106.77	31.92	47.22	745.188	693.772	202.670	80.022	282.692	122.648	266.068	246.626
STORY2	B173	8000	600	800	737.5	7100	106.8	31.93	49.46	745.188	693.772	202.670	80.045	282.715	122.625	266.086	246.639
STORY1	B173	8000	600	800	737.5	7000	105.96	31.8	50.29	745.188	693.772	205.566	79.476	285.042	126.090	268.295	248.710
GROUND	B173	8000	600	800	737.5	7000	105.95	31.79	45.49	745.188	693.772	205.566	79.465	285.031	126.101	268.286	248.704
STORY8	B174	8000	600	800	737.5	7300	108.78	32.29	30.36	745.188	693.772	197.118	81.413	278.531	115.705	262.081	242.843
STORY7	B174	8000	600	800	737.5	7300	108.51	32.18	34.69	745.188	693.772	197.118	81.196	278.314	115.922	261.908	242.721
STORY6	B174	8000	600	800	737.5	7300	108.46	32.16	37.95	745.188	693.772	197.118	81.156	278.274	115.962	261.876	242.699
STORY5	B174	8000	600	800	737.5	7200	107.46	31.97	41.6	745.188	693.772	199.856	80.461	280.317	119.395	263.833	244.556
STORY4	B174	8000	600	800	737.5	7200	107.47	31.99	44.4	745.188	693.772	199.856	80.477	280.333	119.379	263.846	244.565
STORY3	B174	8000	600	800	737.5	7100	106.77	31.92	47.22	745.188	693.772	202.670	80.022	282.692	122.648	266.068	246.626
STORY2	B174	8000	600	800	737.5	7100	106.8	31.93	49.46	745.188	693.772	202.670	80.045	282.715	122.625	266.086	246.639
STORY1	B174	8000	600	800	737.5	7000	105.96	31.8	50.29	745.188	693.772	205.566	79.476	285.042	126.090	268.295	248.710
GROUND	B174	8000	600	800	737.5	7000	105.95	31.79	45.49	745.188	693.772	205.566	79.465	285.031	126.101	268.286	248.704
STORY8	B175	8000	600	800	737.5	7300	115.52	35.36	31.75	745.188	693.772	197.118	86.992	284.110	110.126	266.533	245.976
STORY7	B175	8000	600	800	737.5	7300	116.96	36.05	36.01	745.188	693.772	197.118	88.201	285.319	108.917	267.497	246.655
STORY6	B175	8000	600	800	737.5	7300	115.31	35.28	38.98	745.188	693.772	197.118	86.826	283.944	110.292	266.400	245.883
STORY5	B175	8000	600	800	737.5	7200	114.97	35.42	42.54	745.188	693.772	199.856	86.692	286.548	113.164	268.788	248.018
STORY4	B175	8000	600	800	737.5	7200	114.63	35.29	45.18	745.188	693.772	199.856	86.423	286.279	113.433	268.574	247.868
STORY3	B175	8000	600	800	737.5	7100	112.86	34.75	47.8	745.188	693.772	202.670	85.091	287.761	117.579	270.084	249.411
STORY2	B175	8000	600	800	737.5	7100	111.64	34.2	49.8	745.188	693.772	202.670	84.084	286.754	118.586	269.286	248.857

STORY1	B175	8000	600	800	737.5	7000	109.15	33.32	50.39	745.188	693.772	205.566	82.150	287.716	123.416	270.406	250.161
GROUND	B175	8000	600	800	737.5	7000	106.98	32.33	45.21	745.188	693.772	205.566	80.353	285.919	125.213	268.987	249.186
STORY8	B176	6000	600	800	737.5	5300	94.36	31.14	40.83	729.372	693.772	268.518	72.186	340.704	196.332	320.614	297.120
STORY7	B176	6000	600	800	737.5	5300	98.1	32.89	46.61	729.372	693.772	268.518	75.305	343.823	193.213	322.865	298.356
STORY6	B176	6000	600	800	737.5	5300	91.55	29.96	54.35	729.372	693.772	268.518	69.910	338.428	198.608	318.972	296.218
STORY5	B176	6000	600	800	737.5	5200	91.61	30.04	60.44	729.372	693.772	273.682	69.986	343.668	203.696	323.816	300.599
STORY4	B176	6000	600	800	737.5	5200	89.84	28.97	66.21	729.372	693.772	273.682	68.389	342.071	205.293	322.672	299.985
STORY3	B176	6000	600	800	737.5	5100	85.54	26.84	72.95	729.372	693.772	279.048	64.744	343.792	214.304	325.067	303.168
STORY2	B176	6000	600	800	737.5	5100	81.3	24.45	79.11	729.372	693.772	279.048	61.005	340.053	218.043	322.409	301.775
STORY1	B176	6000	600	800	737.5	5000	75.03	21.2	83.52	729.372	693.772	284.629	55.618	340.247	229.011	323.839	304.651
GROUND	B176	6000	600	800	737.5	5000	67.55	17.32	78.17	729.372	693.772	284.629	49.190	333.819	235.439	319.308	302.337

Tabel 5.10. Gaya Geser Rencana Balok Arah Y

Lantai	No. Elemen	L	Dimensi		d (mm)	Ln (mm)	VD,b (kN)	VL,b (kN)	VE,b (kN)	Mpr1+ (kNm)	Mpr2- (kNm)	Vu,b (kN)	Wu/2 (kN)	Vu,b ki (kN)	Vu,b ka (kN)	Vu,b terpakai (kN)	
			b(mm)	h(mm)												pada s.p	diluar s.p
ROOF	B67	12000	700	1000	937.5	11400	262.10	34.25	5.55	1191.32	1110.34	201.899	174.385	376.284	27.514	347.603	315.097
STORY10	B67	12000	700	1000	937.5	11400	286.53	83.40	14.35	1194.50	1325.37	221.042	213.618	434.660	7.424	399.525	359.706
STORY9	B67	12000	700	1000	937.5	11300	290.62	83.89	21.97	1194.50	1325.37	222.998	216.317	439.315	6.681	403.422	362.742
ROOF	B68	9000	700	1000	937.5	8300	179.20	27.39	6.89	1169.40	1110.34	274.667	121.215	395.882	153.452	368.499	337.465
STORY10	B68	9000	700	1000	937.5	8200	209.05	58.06	18.14	1169.40	1110.34	278.017	154.460	432.477	123.557	397.158	357.131
STORY9	B68	9000	700	1000	937.5	8200	206.03	57.99	26.61	1169.40	1110.34	278.017	152.613	430.630	125.404	395.734	356.185
ROOF	B69	9000	700	1000	937.5	8400	181.21	24.63	7.20	1169.40	1110.34	271.397	121.041	392.438	150.356	365.420	334.800
STORY10	B69	9000	700	1000	937.5	8400	206.91	58.36	18.82	1169.40	1110.34	271.397	153.326	424.723	118.071	390.499	351.711
STORY9	B69	9000	700	1000	937.5	8300	206.46	58.38	27.59	1169.40	1110.34	274.667	153.066	427.733	121.601	393.155	353.967
ROOF	B70	9000	700	1000	937.5	8300	183.52	25.82	8.53	1169.40	1110.34	274.667	123.022	397.689	151.645	369.898	338.402
STORY10	B70	9000	700	1000	937.5	8200	209.35	59.22	19.51	1169.40	1110.34	278.017	155.220	433.237	122.797	397.745	357.520
STORY9	B70	9000	700	1000	937.5	8200	208.40	59.18	27.72	1169.401933	1110.34	278.017	154.630	432.647	123.387	397.289	357.218
ROOF	B71	9000	700	1000	937.5	8400	181.41	29.53	6.43	1169.401933	1110.34	271.397	123.611	395.008	147.786	367.417	336.146
STORY10	B71	9000	700	1000	937.5	8400	216.73	64.08	18.87	1169.401933	1110.34	271.397	162.078	433.475	109.319	397.297	356.295
STORY9	B71	9000	700	1000	937.5	8300	211.98	63.32	30.17	1169.401933	1110.34	274.667	158.848	433.515	115.819	397.631	356.962
STORY8	B204	12000	700	1000	937.5	11300	284.01	81.96	25.81	1197.134302	1539.79	242.206	211.386	453.592	30.820	418.517	378.765
STORY7	B204	12000	700	1000	937.5	11200	280.67	80.84	28.49	1197.13	1539.79	244.368	208.822	453.190	35.546	418.231	378.611
STORY6	B204	12000	700	1000	937.5	11200	285.30	82.42	32.14	1197.13	1539.79	244.368	212.390	456.758	31.978	421.202	380.905
STORY5	B204	12000	700	1000	937.5	11400	282.84	81.98	33.96	1197.13	1539.79	240.081	210.694	450.775	29.387	416.122	376.847
STORY4	B204	12000	700	1000	937.5	11400	283.48	82.36	35.80	1199.35	1753.39	259.013	211.268	470.281	47.745	435.533	396.152
STORY3	B204	12000	700	1000	937.5	11300	284.10	83.05	37.72	1199.35	1753.39	261.305	211.985	473.290	49.320	438.115	398.251
STORY2	B204	12000	700	1000	937.5	11300	286.24	84.01	39.61	1199.35	1753.39	261.305	213.749	475.054	47.556	439.587	399.390
STORY1	B204	12000	700	1000	937.5	11200	287.84	85.11	40.85	1197.13	1539.79	244.368	215.259	459.627	29.109	423.591	382.749
GROUND	B204	12000	700	1000	937.5	11200	292.38	86.86	39.68	1197.13	1539.79	244.368	218.858	463.226	25.510	426.587	385.063
STORY8	B205	9000	700	1000	937.5	8400	207.64	58.64	33.67	1169.40	1110.34	271.397	153.904	425.301	117.493	390.948	352.014
STORY7	B205	9000	700	1000	937.5	8400	209.09	59.06	39.15	1169.40	1110.34	271.397	154.984	426.381	116.413	391.787	352.580
STORY6	B205	9000	700	1000	937.5	8300	205.68	58.13	43.02	1169.40	1110.34	274.667	152.473	427.140	122.194	392.696	353.659

Lantai	No. Elemen	L	Dimensi		d (mm)	Ln (mm)	VD,b (kN)	VL,b (kN)	VE,b (kN)	Mpr1+ (kNm)	Mpr2- (kNm)	Vu,b (kN)	Wu/2 (kN)	Vu,b ki (kN)	Vu,b ka (kN)	Vu,b terpakai (kN)	
			b(mm)	h(mm)												pada s.p	diluar s.p
STORY5	B205	9000	700	1000	937.5	8300	205.15	58.16	47.94	1169.40	1110.34	274.667	152.170	426.837	122.497	392.462	353.502
STORY4	B205	9000	700	1000	937.5	8200	204.46	57.94	52.01	1169.40	1110.34	278.017	151.646	429.663	126.371	394.988	355.689
STORY3	B205	9000	700	1000	937.5	8200	202.35	57.52	56.45	1169.40	1110.34	278.017	150.170	428.187	127.847	393.849	354.933
STORY2	B205	9000	700	1000	937.5	8400	201.02	57.14	60.42	1169.40	1110.34	271.397	149.182	420.579	122.215	387.280	349.540
STORY1	B205	9000	700	1000	937.5	8400	199.50	57.34	63.83	1169.40	1110.34	271.397	148.370	419.767	123.027	386.649	349.115
GROUND	B205	9000	700	1000	937.5	8300	202.79	58.31	61.30	1169.40	1110.34	274.667	150.829	425.496	123.838	391.423	352.808
STORY8	B206	9000	700	1000	937.5	8300	205.67	58.41	34.49	1169.40	1110.34	274.667	152.607	427.274	122.060	392.800	353.729
STORY7	B206	9000	700	1000	937.5	8200	205.70	58.46	39.84	1169.40	1110.34	278.017	152.650	430.667	125.367	395.762	356.203
STORY6	B206	9000	700	1000	937.5	8200	205.03	58.26	43.83	1169.40	1110.34	278.017	152.148	430.165	125.869	395.375	355.946
STORY5	B206	9000	700	1000	937.5	8400	203.84	58.13	48.51	1169.40	1110.34	271.397	151.369	422.766	120.028	388.979	350.686
STORY4	B206	9000	700	1000	937.5	8400	203.56	58.05	52.47	1169.40	1110.34	271.397	151.161	422.558	120.236	388.817	350.577
STORY3	B206	9000	700	1000	937.5	8300	202.15	57.83	56.72	1169.402	1110.337	274.667	150.205	424.872	124.462	390.940	352.484
STORY2	B206	9000	700	1000	937.5	8300	201.79	57.71	60.5	1169.402	1110.337	274.667	149.929	424.596	124.738	390.727	352.341
STORY1	B206	9000	700	1000	937.5	8200	200.3	57.45	63.64	1169.402	1110.337	278.017	148.905	426.922	129.112	392.873	354.285
GROUND	B206	9000	700	1000	937.5	8200	199.61	57.2	60.84	1169.402	1110.337	278.017	148.366	426.383	129.651	392.458	354.009
STORY8	B207	9000	700	1000	937.5	8400	207.14	58.93	34.75	1169.402	1110.337	271.397	153.749	425.146	117.648	390.827	351.933
STORY7	B207	9000	700	1000	937.5	8400	206.7	58.71	40.2	1169.402	1110.337	271.397	153.375	424.772	118.022	390.537	351.737
STORY6	B207	9000	700	1000	937.5	8300	205.8	58.51	43.81	1169.402	1110.337	274.667	152.735	427.402	121.932	392.899	353.795
STORY5	B207	9000	700	1000	937.5	8300	204.17	58.14	48.62	1169.402	1110.337	274.667	151.572	426.239	123.095	391.999	353.193
STORY4	B207	9000	700	1000	937.5	8200	203.56	57.91	52.54	1169.402	1110.337	278.017	151.091	429.108	126.926	394.560	355.405
STORY3	B207	9000	700	1000	937.5	8200	201.92	57.59	56.77	1169.402	1110.337	278.017	149.947	427.964	128.070	393.677	354.819
STORY2	B207	9000	700	1000	937.5	8400	201.45	57.44	60.49	1169.402	1110.337	271.397	149.590	420.987	121.807	387.597	349.754
STORY1	B207	9000	700	1000	937.5	8400	199.99	57.22	63.62	1169.402	1110.337	271.397	148.604	420.001	122.793	386.831	349.238
GROUND	B207	9000	700	1000	937.5	8300	199.36	57.06	60.65	1169.402	1110.337	274.667	148.146	422.813	126.521	389.347	351.418
STORY8	B208	9000	700	1000	937.5	8300	217.57	65.66	36.3	1169.402	1110.337	274.667	163.372	438.039	111.295	401.133	359.306
STORY7	B208	9000	700	1000	937.5	8200	221.75	67.22	40.86	1171.301	1325.372	304.472	166.660	471.132	137.812	433.024	389.835
STORY6	B208	9000	700	1000	937.5	8200	215.85	65.08	46.73	1169.402	1110.337	278.017	162.050	440.067	115.967	403.013	361.018
STORY5	B208	9000	700	1000	937.5	8400	216.58	65.48	50.6	1171.301	1325.372	297.223	162.688	459.911	134.535	423.597	382.441
STORY4	B208	9000	700	1000	937.5	8400	215.79	65.01	54.44	1171.301	1325.372	297.223	161.979	459.202	135.244	423.046	382.069
STORY3	B208	9000	700	1000	937.5	8300	212.51	63.8	58.76	1171.301	1325.372	300.804	159.406	460.210	141.398	424.200	383.388
STORY2	B208	9000	700	1000	937.5	8300	209.54	62.4	62.94	1171.301	1325.372	300.804	156.924	457.728	143.880	422.278	382.102
STORY1	B208	9000	700	1000	937.5	8200	204.68	60.46	66.42	1169.402	1110.337	278.017	153.038	431.055	124.979	396.061	356.402
GROUND	B208	9000	700	1000	937.5	8200	-199.92	57.82	65.07	1169.402	1110.337	278.017	-91.042	186.975	369.059	207.792	231.386

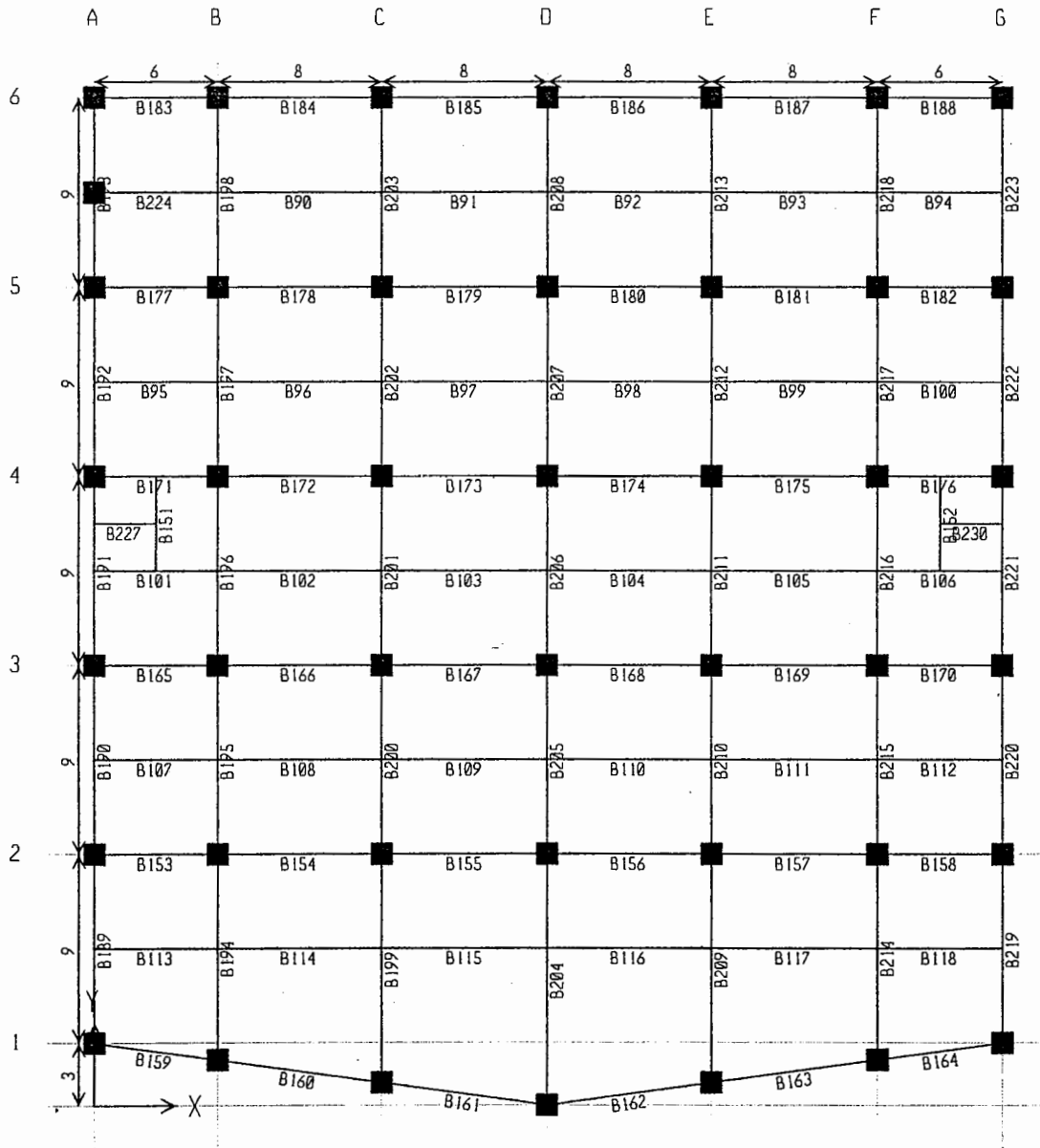
Tabel 5.11. Penulangan Geser Balok Arah X

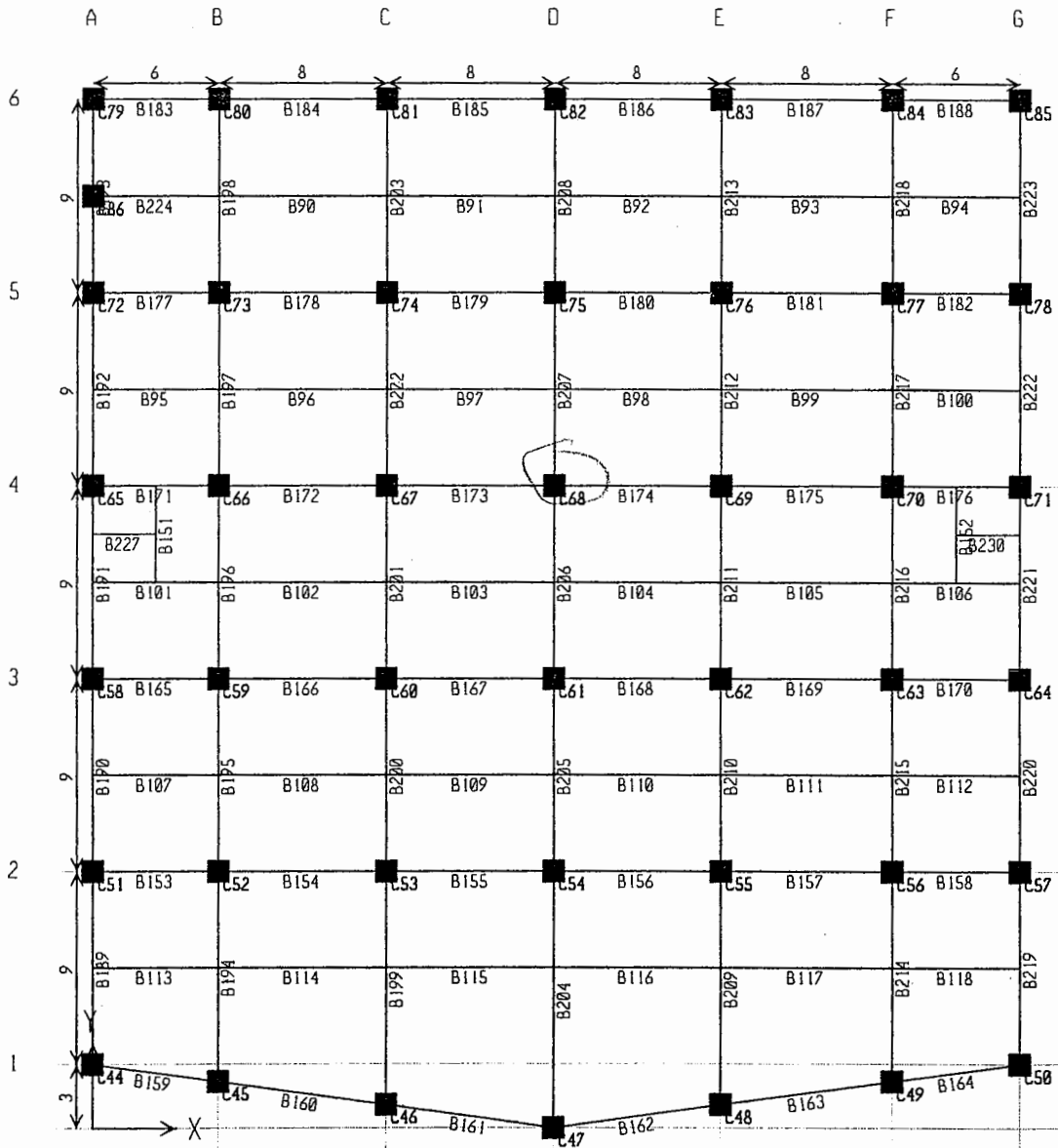
Lantai	No. Elemen	Dimensi (mm)		d (mm)	Vu,b terpakai (kN)		Vc (kN)		Vs (kN)		s (mm)		Tulangan geser	
		b	h		pada s.p.	di luar s.p.	pada s.p.	di luar s.p.	pada s.p.	di luar s.p.	pada s.p.	di luar s.p.	pada s.p.	di luar s.p.
ROOF	B32	600	800	737.5	303.058	285.693	0	368.75	404.0777	12.17355	68.81	2283.89	2P10 - 60	2P10 - 200
STORY10	B32	600	800	737.5	315.274	292.540	0	368.75	420.365	21.30273	66.14	1305.14	2P10 - 60	2P10 - 200
STORY9	B32	600	800	737.5	312.445	290.954	0	368.75	416.5932	19.18856	66.74	1448.94	2P10 - 60	2P10 - 200
ROOF	B33	600	800	737.5	246.904	231.634	0	368.75	329.2053	-59.90497	84.46	-464.12	2P10 - 80	2P10 - 200
STORY10	B33	600	800	737.5	263.420	243.341	0	368.75	351.226	-44.29535	118.74	-627.68	2P10 - 100	2P10 - 200
STORY9	B33	600	800	737.5	263.042	243.074	0	368.75	350.7232	-44.65178	79.27	-622.66	2P10 - 60	2P10 - 200
ROOF	B34	600	800	737.5	243.970	229.554	0	368.75	325.2927	-62.67849	85.47	-443.58	2P10 - 80	2P10 - 200
STORY10	B34	600	800	737.5	259.310	240.428	0	368.75	345.7462	-48.17978	80.41	-577.07	2P10 - 80	2P10 - 200
STORY9	B34	600	800	737.5	259.319	240.434	0	368.75	345.759	-48.1707	120.62	-577.18	2P10 - 100	2P10 - 200
ROOF	B35	600	800	737.5	246.390	231.269	0	368.75	328.5199	-60.39081	84.63	-460.39	2P10 - 80	2P10 - 200
STORY10	B35	600	800	737.5	260.198	241.058	0	368.75	346.9312	-47.33978	80.14	-587.31	2P10 - 80	2P10 - 250
STORY9	B35	600	800	737.5	260.237	241.085	0	368.75	346.9824	-47.30346	80.13	-587.76	2P10 - 80	2P10 - 250
ROOF	B36	600	800	737.5	243.451	229.186	0	368.75	324.6009	-63.16887	128.48	-440.14	2P10 - 100	2P10 - 250
STORY10	B36	600	800	737.5	263.420	243.341	0	368.75	351.226	-44.29535	79.16	-627.68	2P10 - 80	2P10 - 250
STORY9	B36	600	800	737.5	263.042	243.074	0	368.75	350.7232	-44.65178	79.27	-622.66	2P10 - 80	2P10 - 250
ROOF	B37	600	800	737.5	303.058	285.693	0	368.75	404.0777	12.17355	68.81	2283.89	2P10 - 80	2P10 - 250
STORY10	B37	600	800	737.5	315.274	292.540	0	368.75	420.365	21.30273	66.14	1305.14	2P10 - 80	2P10 - 250
STORY9	B37	600	800	737.5	312.445	290.954	0	368.75	416.5932	19.18856	100.11	1448.94	2P10 - 100	2P10 - 250
STORY8	B171	600	800	737.5	320.614	297.120	0	368.75	427.4856	27.40964	65.04	1014.35	2P10 - 80	2P10 - 250
STORY7	B171	600	800	737.5	322.865	298.356	0	368.75	430.4869	29.05741	64.59	956.83	2P10 - 80	2P10 - 250
STORY6	B171	600	800	737.5	318.972	296.218	0	368.75	425.2955	26.20722	65.37	1060.89	2P10 - 80	2P10 - 250
STORY5	B171	600	800	737.5	323.816	300.599	0	368.75	431.7543	32.04896	64.40	867.52	2P10 - 80	2P10 - 250
STORY4	B171	600	800	737.5	322.672	299.985	0	368.75	430.229	31.22999	96.94	890.27	2P10 - 100	2P10 - 250
STORY3	B171	600	800	737.5	325.067	303.168	0	368.75	433.4225	35.4742	64.15	783.76	2P10 - 80	2P10 - 250
STORY2	B171	600	800	737.5	322.409	301.775	0	368.75	429.879	33.61692	64.68	827.06	2P10 - 80	2P10 - 250
STORY1	B171	600	800	737.5	323.839	304.651	0	368.75	431.786	37.4517	64.39	742.37	2P10 - 80	2P10 - 250
GROUND	B171	600	800	737.5	319.308	302.337	0	368.75	425.7437	34.36626	65.30	809.02	2P10 - 80	2P10 - 250

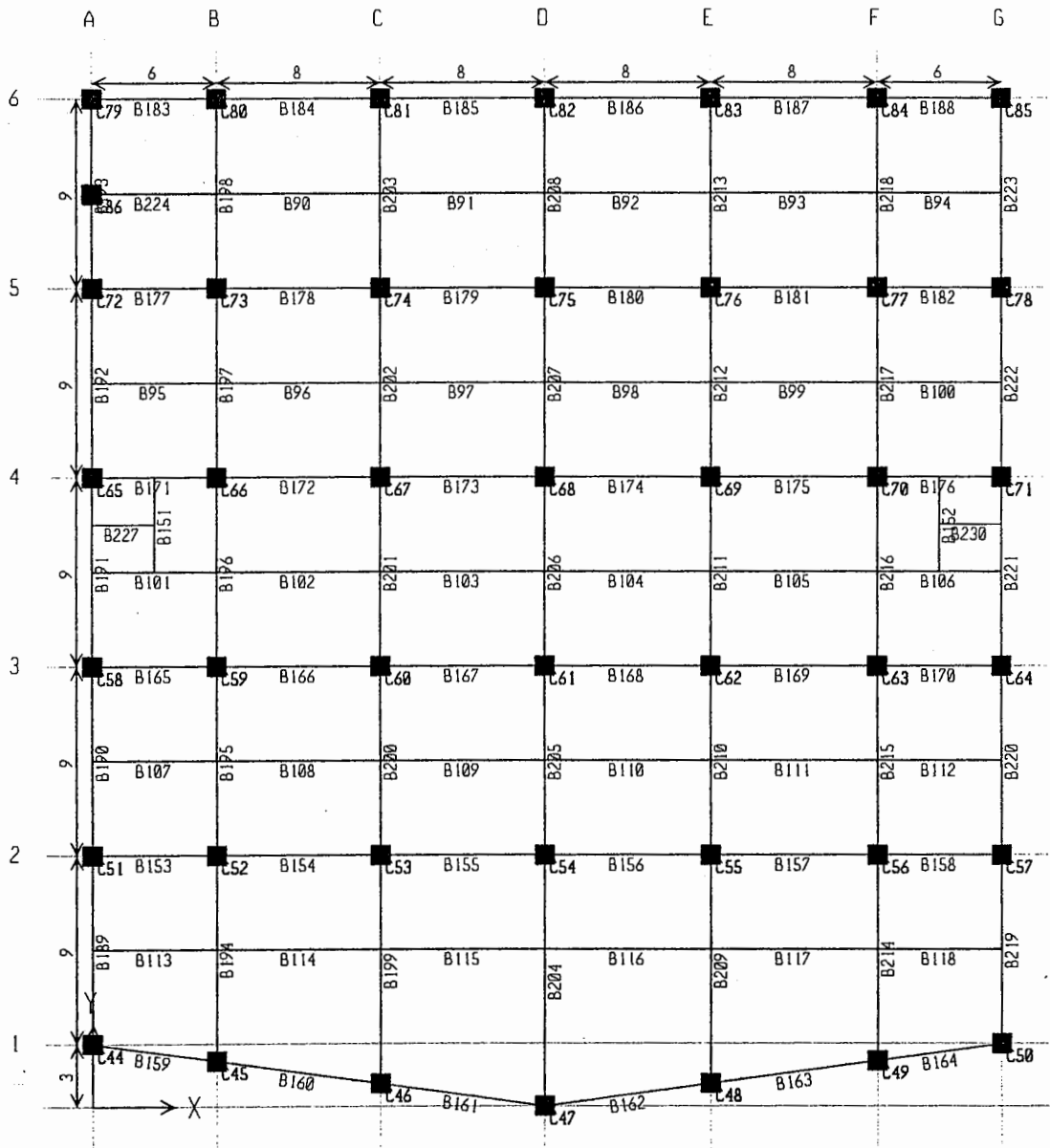
Lantai	No. Elemen	Dimensi (mm)		d (mm)	Vu,b terpakai (kN)		Vc (kN)		Vs (kN)		s (mm)		Tulangan geser	
		b	h		pada s.p.	di luar s.p.	pada s.p.	di luar s.p.	pada s.p.	di luar s.p.	pada s.p.	di luar s.p.	pada s.p.	di luar s.p.
STORY8	B172	600	800	737.5	266.533	245.976	0	349.827	355.377	-21.85844	78.24	-1271.96	2P10 - 80	2P10 - 250
STORY7	B172	600	800	737.5	267.497	246.655	0	349.827	356.6633	-20.95307	77.95	-1326.92	2P10 - 80	2P10 - 250
STORY6	B172	600	800	737.5	266.400	245.883	0	349.827	355.2004	-21.98275	78.27	-1264.77	2P10 - 80	2P10 - 250
STORY5	B172	600	800	737.5	268.788	248.018	0	349.827	358.3837	-19.1365	77.58	-1452.88	2P10 - 80	2P10 - 250
STORY4	B172	600	800	737.5	268.574	247.868	0	349.827	358.0986	-19.33576	116.46	-1437.91	2P10 - 100	2P10 - 100
STORY3	B172	600	800	737.5	270.084	249.411	0	349.827	360.1122	-17.27947	77.21	-1609.02	2P10 - 100	2P10 - 100
STORY2	B172	600	800	737.5	269.286	248.857	0	349.827	359.0485	-18.01699	77.44	-1543.16	2P10 - 100	2P10 - 100
STORY1	B172	600	800	737.5	270.406	250.161	0	349.827	360.5408	-16.2783	77.11	-1707.99	2P10 - 100	2P10 - 70
GROUND	B172	600	800	737.5	268.987	249.186	0	349.827	358.6497	-17.57899	116.28	-1581.61	2P10 - 100	2P10 - 100
STORY8	B173	600	800	737.5	262.081	242.843	0	349.827	349.4413	-26.03632	79.56	-1067.86	2P10 - 80	2P10 - 250
STORY7	B173	600	800	737.5	261.908	242.721	0	349.827	349.2104	-26.19882	79.62	-1061.23	2P10 - 80	2P10 - 250
STORY6	B173	600	800	737.5	261.876	242.699	0	349.827	349.1679	-26.22877	79.63	-1060.02	2P10 - 70	2P10 - 200
STORY5	B173	600	800	737.5	263.833	244.556	0	349.827	351.7777	-23.75206	118.55	-1170.56	2P10 - 100	2P10 - 250
STORY4	B173	600	800	737.5	263.846	244.565	0	349.827	351.7947	-23.74021	79.03	-1171.14	2P10 - 80	2P10 - 250
STORY3	B173	600	800	737.5	266.068	246.626	0	349.827	354.7576	-20.99198	78.37	-1324.46	2P10 - 80	2P10 - 250
STORY2	B173	600	800	737.5	266.086	246.639	0	349.827	354.7819	-20.97514	78.37	-1325.53	2P10 - 80	2P10 - 250
STORY1	B173	600	800	737.5	268.295	248.710	0	349.827	357.7267	-18.21377	77.72	-1526.49	2P10 - 80	2P10 - 250
GROUND	B173	600	800	737.5	268.286	248.704	0	349.827	357.7152	-18.22173	116.59	-1525.82	2P10 - 100	2P10 - 250
STORY8	B174	600	800	737.5	262.081	242.843	0	349.827	349.4413	-26.03632	79.56	-1067.86	2P10 - 80	2P10 - 250
STORY7	B174	600	800	737.5	261.908	242.721	0	349.827	349.2104	-26.19882	79.62	-1061.23	2P10 - 80	2P10 - 250
STORY6	B174	600	800	737.5	261.876	242.699	0	349.827	349.1679	-26.22877	79.63	-1060.02	2P10 - 80	2P10 - 250
STORY5	B174	600	800	737.5	263.833	244.556	0	349.827	351.7777	-23.75206	79.04	-1170.56	2P10 - 80	2P10 - 250
STORY4	B174	600	800	737.5	263.846	244.565	0	349.827	351.7947	-23.74021	118.55	-1171.14	2P10 - 100	2P10 - 250
STORY3	B174	600	800	737.5	266.068	246.626	0	349.827	354.7576	-20.99198	78.37	-1324.46	2P10 - 80	2P10 - 250
STORY2	B174	600	800	737.5	266.086	246.639	0	349.827	354.7819	-20.97514	78.37	-1325.53	2P10 - 80	2P10 - 250
STORY1	B174	600	800	737.5	268.295	248.710	0	349.827	357.7267	-18.21377	77.72	-1526.49	2P10 - 80	2P10 - 250
GROUND	B174	600	800	737.5	268.286	248.704	0	349.827	357.7152	-18.22173	77.72	-1525.82	2P10 - 80	2P10 - 250
STORY8	B175	600	800	737.5	266.533	245.976	0	349.827	355.377	-21.85844	117.35	-1271.96	2P10 - 100	2P10 - 250
STORY7	B175	600	800	737.5	267.497	246.655	0	349.827	356.6633	-20.95307	77.95	-1326.92	2P10 - 80	2P10 - 250
STORY6	B175	600	800	737.5	266.400	245.883	0	349.827	355.2004	-21.98275	78.27	-1264.77	2P10 - 80	2P10 - 250
STORY5	B175	600	800	737.5	268.7878	248.017847	0	349.827	358.3837	-19.1365	77.58	-1452.88	2P10 - 80	2P10 - 250
STORY4	B175	600	800	737.5	268.5739	247.868402	0	349.827	358.0986	-19.33576	77.64	-1437.91	2P10 - 80	2P10 - 250
STORY3	B175	600	800	737.5	270.0841	249.410619	0	349.827	360.1122	-17.27947	77.21	-1609.02	2P10 - 80	2P10 - 250

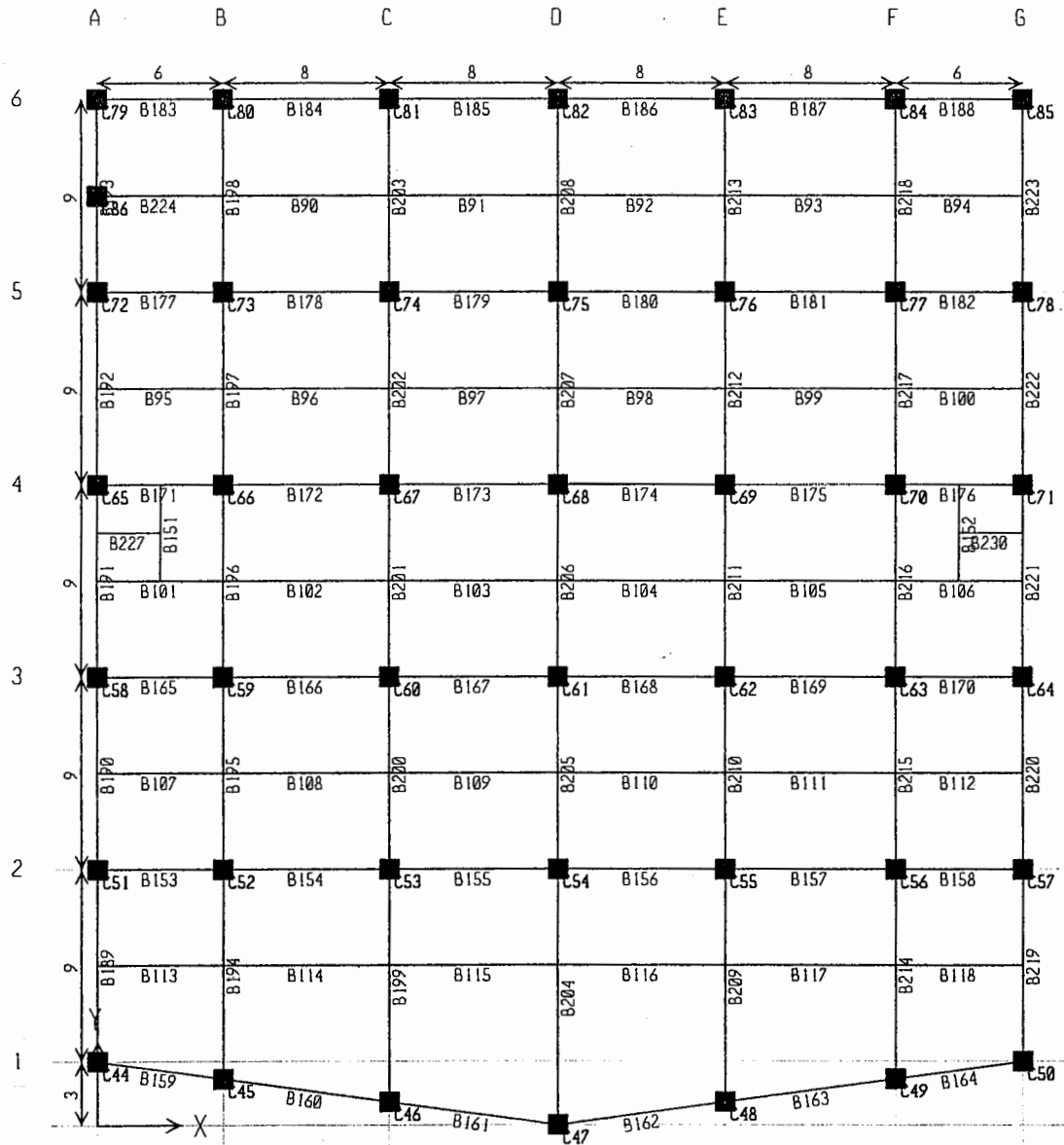
Lantai	No. Elemen	Dimensi (mm)		d (mm)	Vu,b terpakai (kN)		Vc (kN)		Vs (kN)		s (mm)		Tulangan geser	
		b	h		pada s.p.	di luar s.p.	pada s.p.	di luar s.p.	pada s.p.	di luar s.p.	pada s.p.	di luar s.p.	pada s.p.	di luar s.p.
STORY2	B175	600	800	8000	269.286	248.857	0	3794.733	359.0485	-3462.923	839.98	-87.09	2P10 - 80	2P10 - 250
STORY1	B175	600	800	8000	270.406	250.161	0	3794.733	360.5408	-3461.185	836.50	-87.14	2P10 - 80	2P10 - 250
GROUND	B175	600	800	8000	268.987	249.186	0	3794.733	358.6497	-3462.485	840.91	-87.10	2P10 - 80	2P10 - 250
STORY8	B176	600	800	6000	320.614	297.120	0	2846.05	427.4856	-2449.89	529.13	-92.33	2P10 - 100	2P10 - 250
STORY7	B176	600	800	6000	322.865	298.356	0	2846.05	430.4869	-2448.242	788.16	-92.39	2P10 - 100	2P10 - 250
STORY6	B176	600	800	6000	318.972	296.218	0	2846.05	425.2955	-2451.093	531.85	-92.28	2P10 - 100	2P10 - 250
STORY5	B176	600	800	6000	323.816	300.599	0	2846.05	431.7543	-2445.251	523.90	-92.50	2P10 - 100	2P10 - 150
STORY4	B176	600	800	6000	322.672	299.985	0	2846.05	430.229	-2446.07	525.75	-92.47	2P10 - 100	2P10 - 150
STORY3	B176	600	800	6000	325.067	303.168	0	2846.05	433.4225	-2441.826	782.82	-92.63	2P10 - 100	2P10 - 150
STORY2	B176	600	800	6000	322.409	301.775	0	2846.05	429.879	-2443.683	526.18	-92.56	2P10 - 100	2P10 - 150
STORY1	B176	600	800	6000	323.839	304.651	0	2846.05	431.786	-2439.848	523.86	-92.71	2P10 - 100	2P10 - 1400
GROUND	B176	600	800	6000	319.308	302.337	0	2846.05	425.7437	-2442.934	531.29	-92.59	2P10 - 100	2P10 - 140

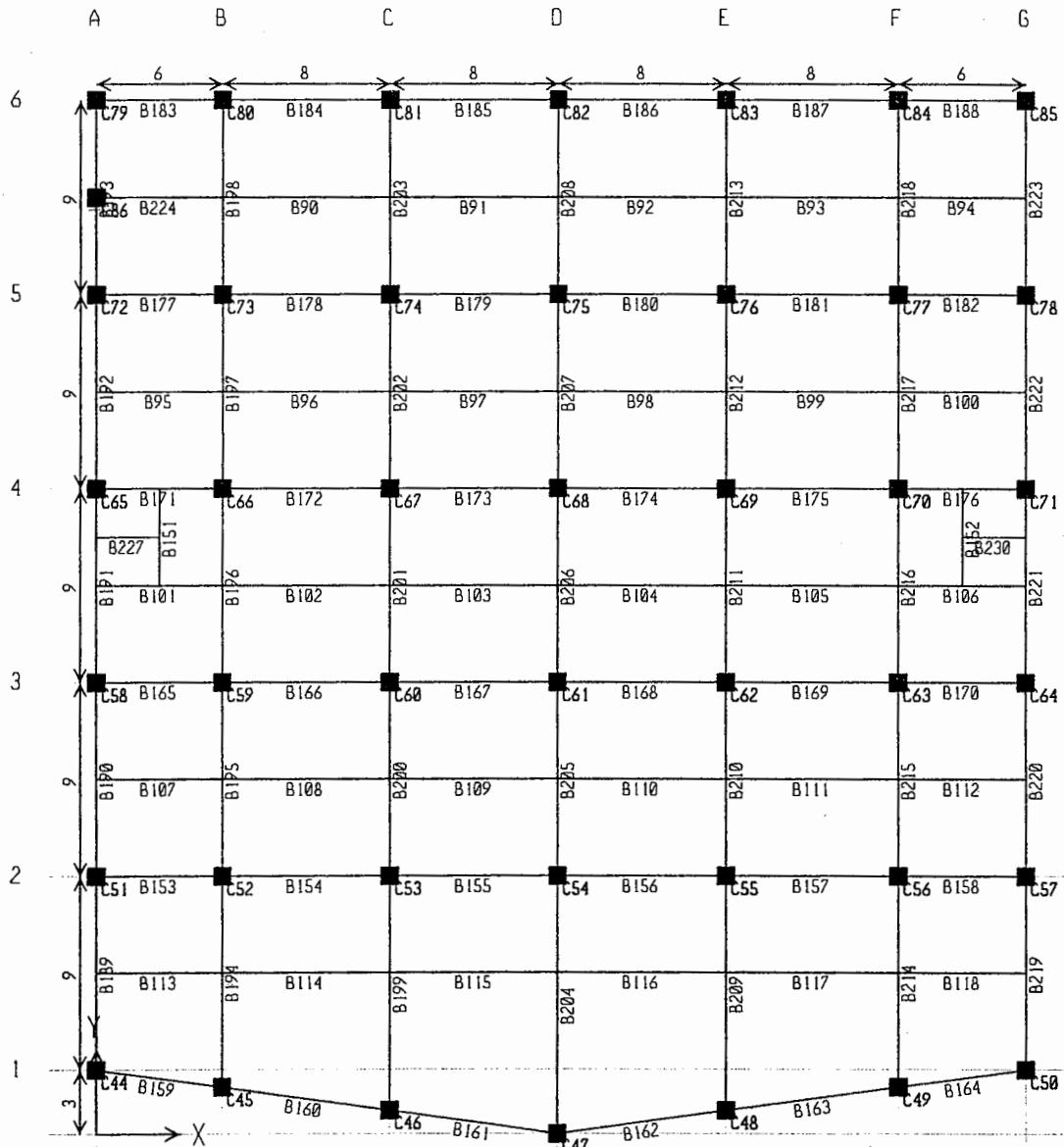
Lantai	No. Elemen	Dimensi (mm)		d (mm)	Vu,b terpakai (kN)		Vc (kN)		Vs (kN)		s (mm)		Tulangan geser	
		b	h		pada s.p.	di luar s.p.	pada s.p.	di luar s.p.	pada s.p.	di luar s.p.	pada s.p.	di luar s.p.	pada s.p.	di luar s.p.
STORY5	B205	700	1000	937.5	392.462	353.502	0	518.8112	523.282	-47.47471	67.54	-744.46	2P10 - 80	2P10 - 250
STORY4	B205	700	1000	937.5	394.988	355.689	0	518.8112	526.6503	-44.55887	67.11	-793.17	2P10 - 80	2P10 - 250
STORY3	B205	700	1000	937.5	393.849	354.933	0	518.8112	525.1323	-45.56687	67.30	-775.63	2P10 - 80	2P10 - 250
STORY2	B205	700	1000	937.5	387.280	349.540	0	518.8112	516.3732	-52.75732	68.44	-669.92	2P10 - 80	2P10 - 250
STORY1	B205	700	1000	937.5	386.649	349.115	0	518.8112	515.5322	-53.32443	102.83	-662.79	2P10 - 100	2P10 - 100
GROUND	B205	700	1000	937.5	391.423	352.808	0	518.8112	521.898	-48.40103	67.72	-730.21	2P10 - 100	2P10 - 100
STORY8	B206	700	1000	937.5	392.800	353.729	0	518.8112	523.7331	-47.17285	67.48	-749.22	2P10 - 100	2P10 - 100
STORY7	B206	700	1000	937.5	395.762	356.203	0	518.8112	527.6829	-43.87321	66.98	-805.57	2P10 - 100	2P10 - 70
STORY6	B206	700	1000	937.5	395.375	355.946	0	518.8112	527.1666	-44.21604	100.56	-799.32	2P10 - 100	2P10 - 100
STORY5	B206	700	1000	937.5	388.979	350.686	0	518.8112	518.6383	-51.22989	68.15	-689.89	2P10 - 80	2P10 - 250
STORY4	B206	700	1000	937.5	388.817	350.577	0	518.8112	518.4229	-51.37516	68.17	-687.94	2P10 - 80	2P10 - 250
STORY3	B206	700	1000	937.5	390.940	352.484	0	518.8112	521.2539	-48.83206	67.80	-723.76	2P10 - 70	2P10 - 200
STORY2	B206	700	1000	937.5	390.727	352.341	0	518.8112	520.969	-49.02271	101.76	-720.95	2P10 - 100	2P10 - 250
STORY1	B206	700	1000	937.5	392.873	354.285	0	518.8112	523.8313	-46.43077	67.47	-761.20	2P10 - 80	2P10 - 250
GROUND	B206	700	1000	937.5	392.458	354.009	0	518.8112	523.277	-46.79887	67.54	-755.21	2P10 - 80	2P10 - 250
STORY8	B207	700	1000	937.5	390.827	351.933	0	518.8112	521.1033	-49.56767	67.82	-713.02	2P10 - 80	2P10 - 250
STORY7	B207	700	1000	937.5	390.537	351.737	0	518.8112	520.7159	-49.82888	67.87	-709.29	2P10 - 80	2P10 - 250
STORY6	B207	700	1000	937.5	392.899	353.795	0	518.8112	523.8652	-47.08443	101.20	-750.63	2P10 - 100	2P10 - 250
STORY5	B207	700	1000	937.5	391.999	353.193	0	518.8112	522.6648	-47.88779	67.62	-738.04	2P10 - 80	2P10 - 250
STORY4	B207	700	1000	937.5	394.560	355.405	0	518.8112	526.0795	-44.93789	67.18	-786.48	2P10 - 80	2P10 - 250
STORY3	B207	700	1000	937.5	393.677	354.819	0	518.8112	524.903	-45.71916	67.33	-773.04	2P10 - 80	2P10 - 250
STORY2	B207	700	1000	937.5	387.597	349.754	0	518.8112	516.7958	-52.47237	68.39	-673.55	2P10 - 80	2P10 - 250
STORY1	B207	700	1000	937.5	386.831	349.238	0	518.8112	515.7745	-53.161	102.79	-664.83	2P10 - 100	2P10 - 250
GROUND	B207	700	1000	937.5	389.347	351.418	0	518.8112	519.1288	-50.25434	68.08	-703.28	2P10 - 80	2P10 - 250
STORY8	B208	700	1000	937.5	401.133	359.306	0	518.8112	534.844	-39.73679	66.08	-889.43	2P10 - 80	2P10 - 250
STORY7	B208	700	1000	937.5	433.024	389.835	0	518.8112	577.3656	0.968639	61.21	36487.20	2P10 - 80	2P10 - 250
STORY6	B208	700	1000	937.5	403.013	361.018	0	518.8112	537.3504	-37.4537	65.77	-943.64	2P10 - 80	2P10 - 250
STORY5	B208	700	1000	937.5	423.597	382.441	0	518.8112	564.7957	-8.890373	93.86	-3975.42	2P10 - 100	2P10 - 250
STORY4	B208	700	1000	937.5	423.046	382.069	0	518.8112	564.0614	-9.385547	62.66	-3765.68	2P10 - 80	2P10 - 250
STORY3	B208	700	1000	937.5	424.200	383.388	0	518.8112	565.5996	-7.627295	62.49	-4633.74	2P10 - 80	2P10 - 250
STORY2	B208	700	1000	937.5	422.2784	382.102058	0	518.8112	563.0378	-9.341769	62.77	-3783.32	2P10 - 80	2P10 - 250
STORY1	B208	700	1000	937.5	396.0614	356.402207	0	518.8112	528.0819	-43.60824	66.93	-810.46	2P10 - 80	2P10 - 250
GROUND	B208	700	1000	937.5	207.7924	231.385622	0	518.8112	277.0566	-210.297	127.57	-168.06	2P10 - 80	2P10 - 250

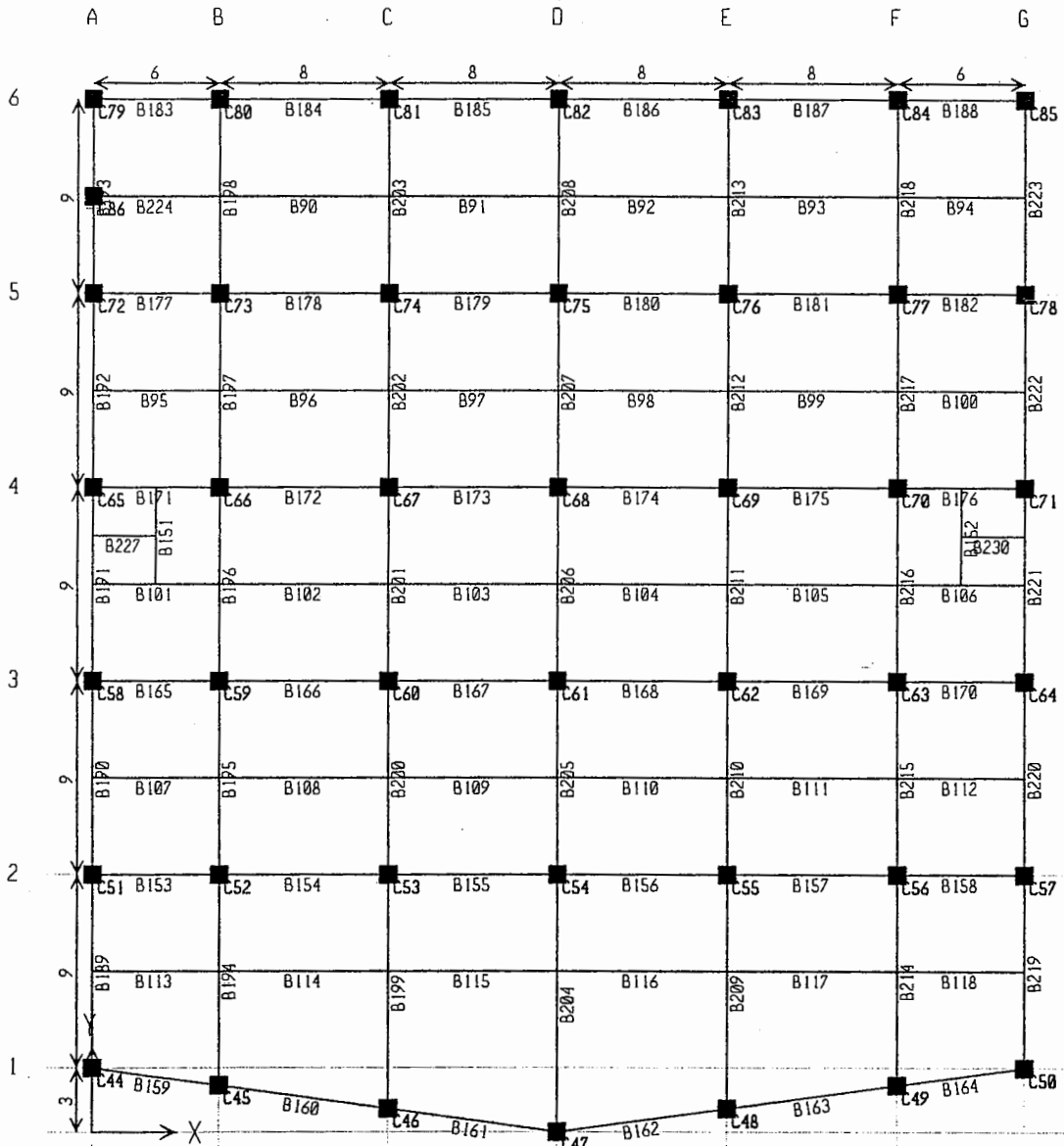


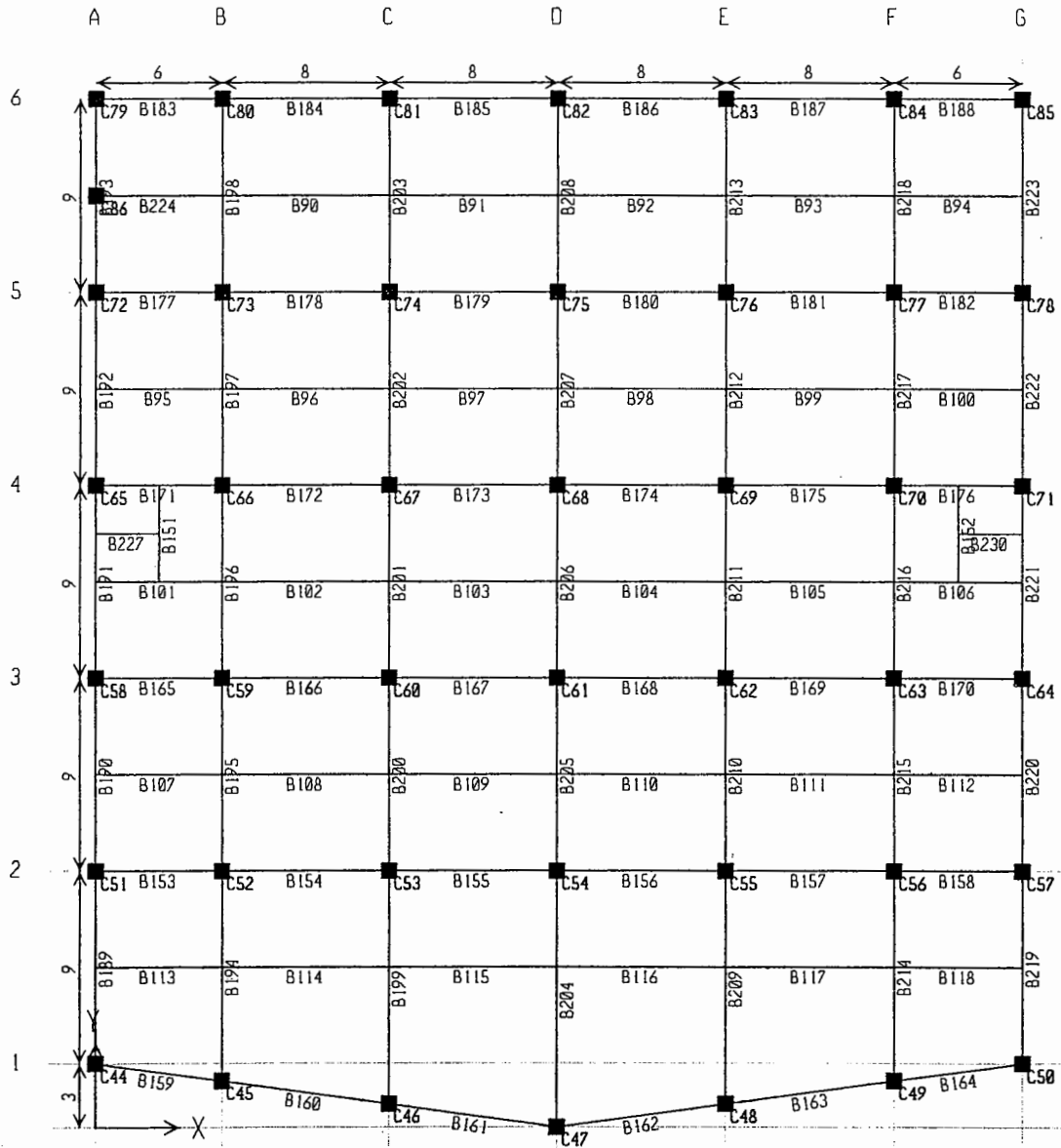


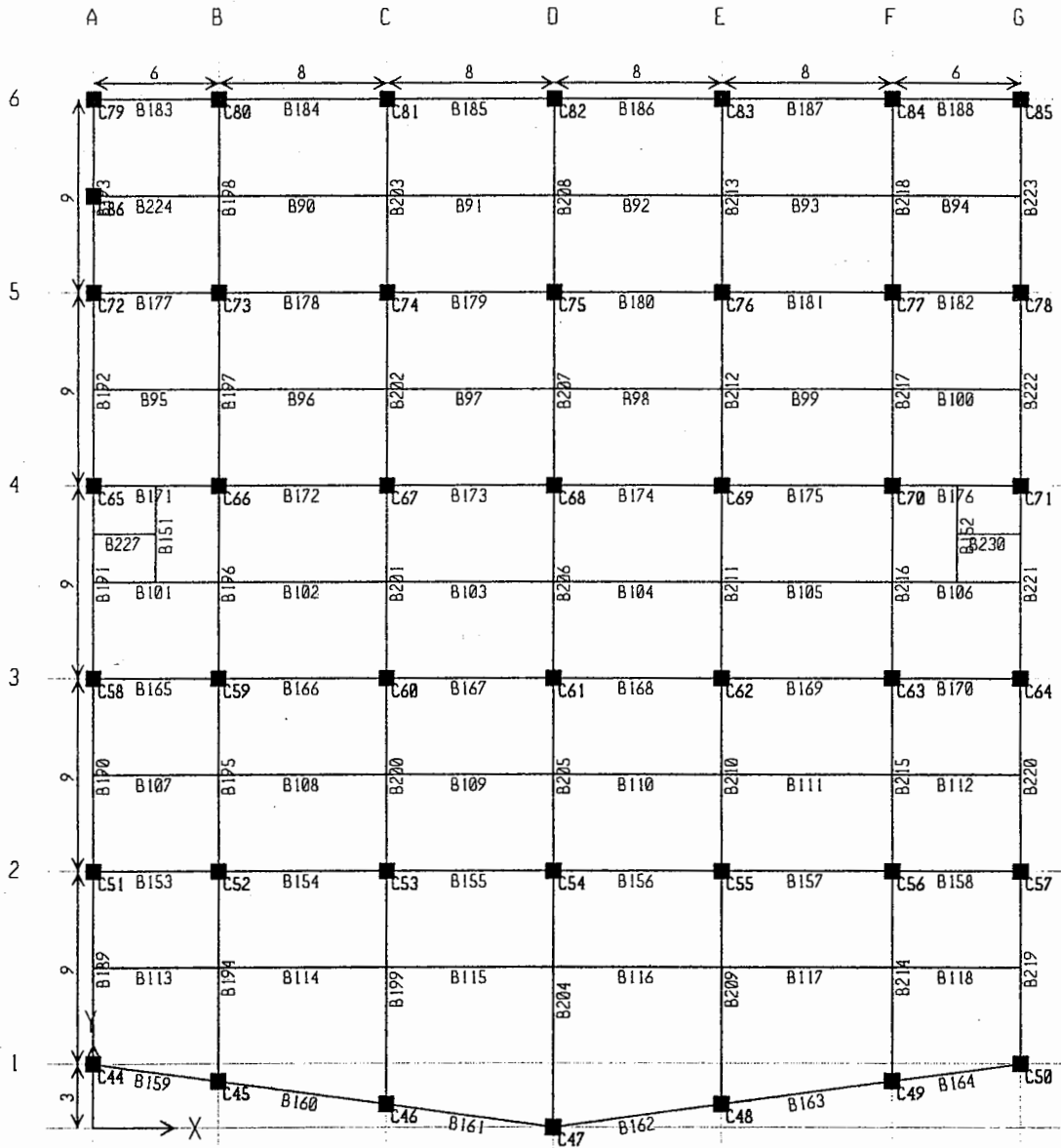


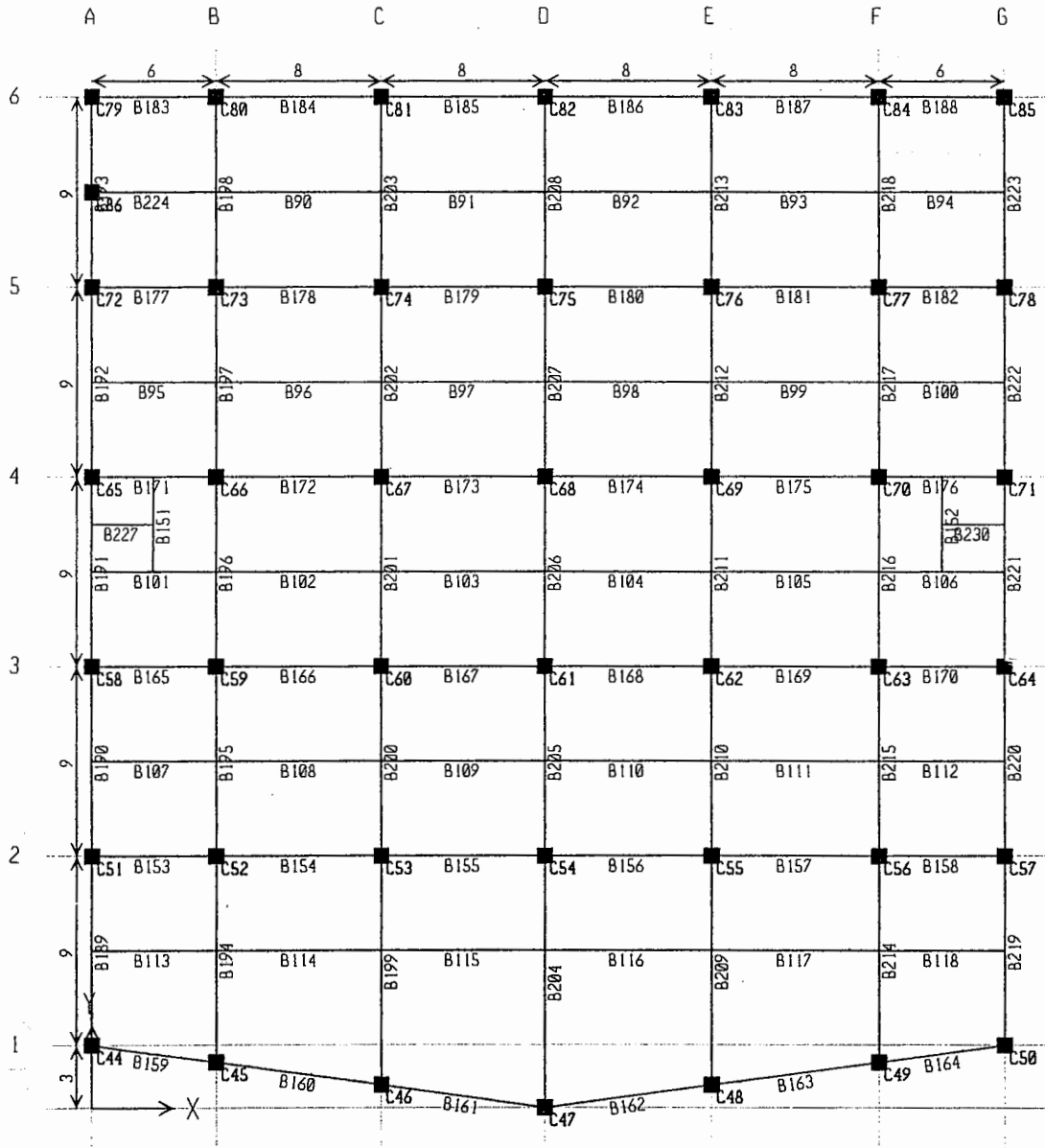


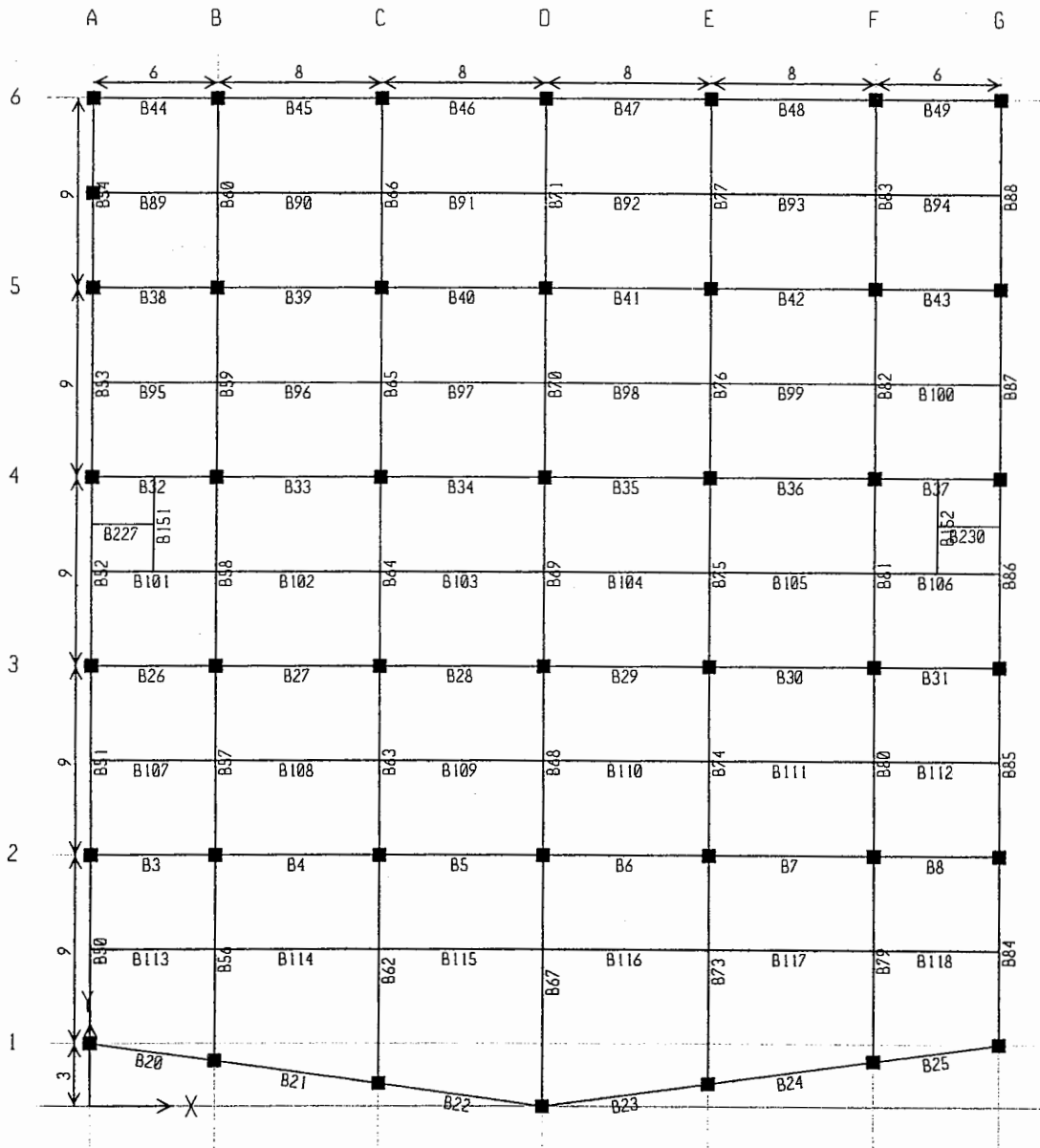


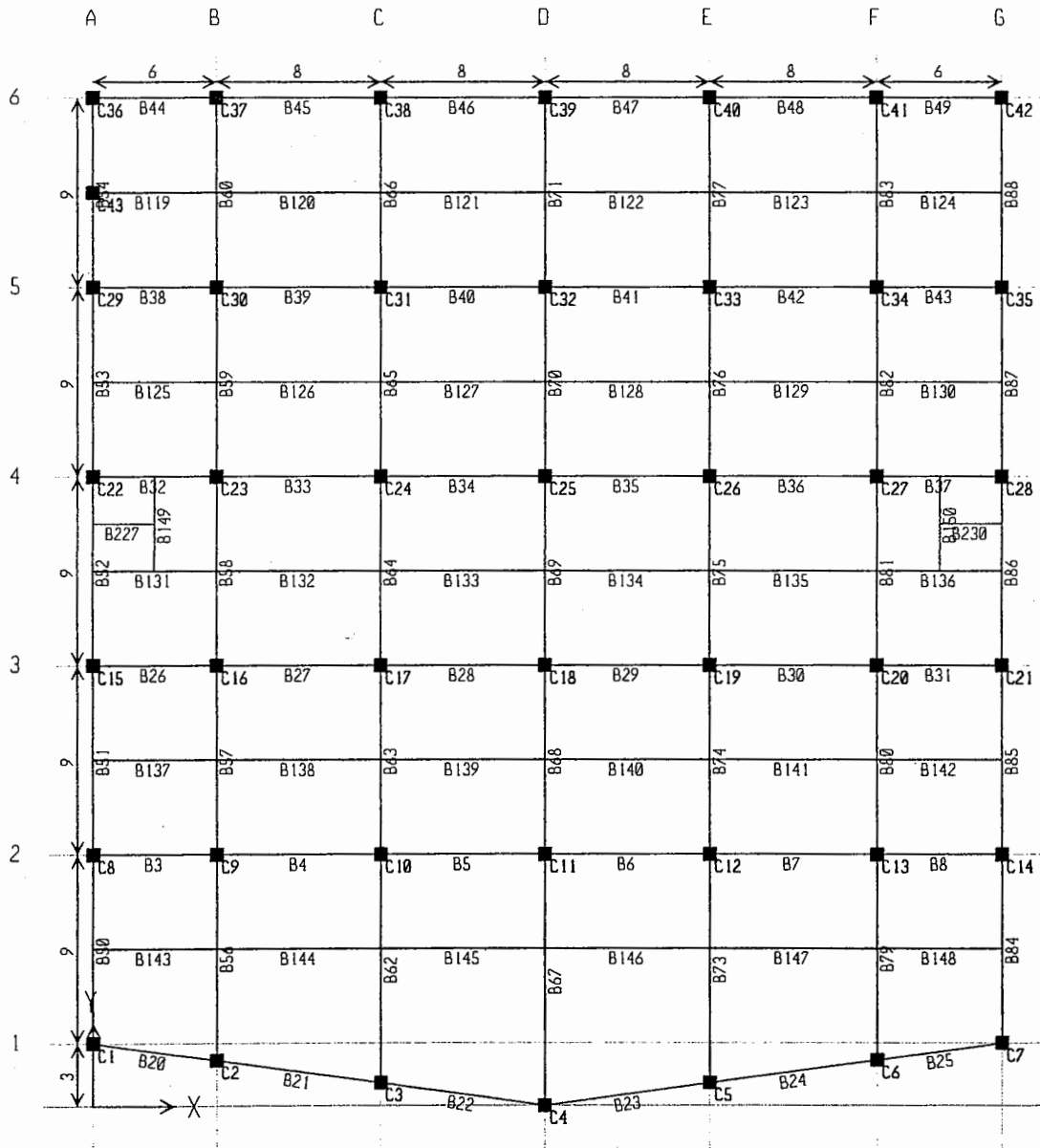


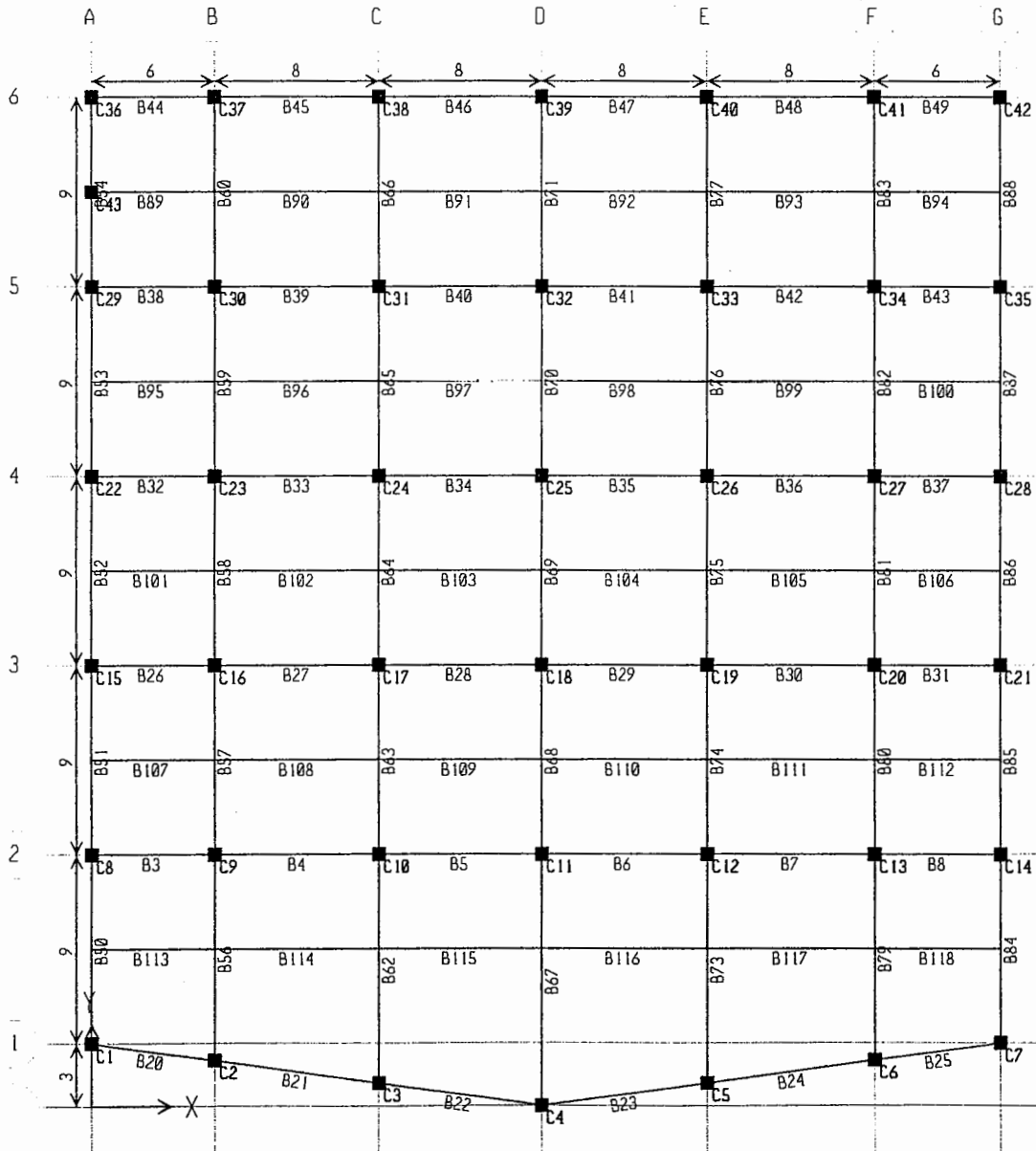












Tabel 5.13. Syarat Perancangan Tulangan Kolom

Tingkat	Nomor Kolom	b	h	Pu	Mux	Muy	$Pu < 0,1 \cdot Ag \cdot f_c$	Pn	Mnx	Mny
ATAP	kolom tengah	600	600	862.07	67.486	53.346	0.65	1326.262	103.8246	82.07077
10	kolom tengah	600	600	1975.58	115.378	93.917	0.65	3039.354	177.5046	144.4877
9	kolom tengah	600	600	3088.64	145.399	119.123	0.65	4751.754	223.6908	183.2662
8	kolom tengah	700	700	4215.86	181.047	143.019	0.65	6485.938	278.5338	220.0292
7	kolom tengah	700	700	5340.97	198.325	158.494	0.65	8216.877	305.1154	243.8369
6	kolom tengah	700	700	6465.54	211.036	170.523	0.65	9946.985	324.6708	262.3431
5	kolom tengah	800	800	7607.28	239.507	188.68	0.65	11703.51	368.4723	290.2769
4	kolom tengah	800	800	8747.48	246.712	195.74	0.65	13457.66	379.5569	301.1385
3	kolom tengah	900	900	9908.87	273.848	211.932	0.65	15244.42	421.3046	326.0492
2	kolom tengah	900	900	11069.67	281.929	222.645	0.65	17030.26	433.7369	342.5308
1	kolom tengah	1000	1000	12254.8	320.416	259.474	0.65	18853.54	492.9477	399.1908
GROUND	kolom tengah	1000	1000	13468.42	459.893	434.249	0.65	20720.65	707.5277	668.0754

Tabel 5.14. (Lanjutan) Syarat Perancangan Tulangan Kolom

Tingkat	Jenis Kolom	Mny/Mnx	b/h	Mno	km	kp	r	f _c	f _y
ATAP	kolom tengah	0.7905	1	148.0166	0.0274	0.2456	1.00%	25	400
10	kolom tengah	0.8140	1	255.3057	0.0473	0.5628	1.00%	25	400
9	kolom tengah	0.8193	1	322.3725	0.0597	0.8800	1.50%	25	400
8	kolom tengah	0.7900	1	397.0111	0.0463	0.7564	1.00%	25	400
7	kolom tengah	0.7992	1	436.4122	0.0509	0.9582	1.50%	25	400
6	kolom tengah	0.8080	1	465.9324	0.0543	1.1600	2.50%	25	400
5	kolom tengah	0.7878	1	524.7753	0.0410	0.9143	1.00%	25	400
4	kolom tengah	0.7934	1	541.7084	0.0423	1.0514	2.00%	25	400
3	kolom tengah	0.7739	1	596.8696	0.0328	0.8365	1.00%	25	400
2	kolom tengah	0.7897	1	618.1766	0.0339	0.9344	1.00%	25	400
1	kolom tengah	0.8098	1	707.8966	0.0283	0.7541	1.00%	25	400
GROUND	kolom tengah	0.9443	1	1067.2946	0.0427	0.8288	1.00%	25	400

Tabel 5.15. (lanjutan) Syarat Perancangan Tulangan Kolom

Tingkat	Jenis Kolom	Metode Resciprocal								
		Po			Pox			Poy		
		Ast	Ag	Po	km	kp	Pox	km	kp	Poy
ATAP	kolom tengah	14400	360000	13104	0.0192	1.4	12600	0.0152	1.4	30345
10	kolom tengah	3600	360000	9013.5	0.0329	0.92	8280	0.0268	0.93	20157.75
9	kolom tengah	3600	360000	9013.5	0.0414	0.9	8100	0.0339	0.92	19941
8	kolom tengah	4900	490000	12268.38	0.0325	0.91	11147.5	0.0257	0.95	20591.25
7	kolom tengah	4900	490000	12268.38	0.0356	0.91	11147.5	0.0284	0.95	20591.25
6	kolom tengah	4900	490000	12268.38	0.0379	0.9	11025	0.0306	0.96	20808
5	kolom tengah	6400	640000	16024	0.0288	0.95	15200	0.0227	0.96	20808
4	kolom tengah	6400	640000	16024	0.0297	0.95	15200	0.0235	0.96	20808
3	kolom tengah	8100	810000	20280.38	0.0231	0.95	19237.5	0.0179	0.96	20808
2	kolom tengah	8100	810000	20280.38	0.0238	0.95	19237.5	0.0188	0.96	20808
1	kolom tengah	10000	1000000	25037.5	0.0197	0.95	23750	0.0160	0.96	20808
GROUND	kolom tengah	10000	1000000	25037.5	0.0283	0.93	23250	0.0267	0.93	20157.75

Tabel 5.16. Gaya - Gaya Momen Me

Tingkat	Jenis Kolom	P				kp				Pn			
		Ex	(-)Ex	Ey	(-)Ey	Ex	(-)Ex	Ey	(-)Ey	Ex	(-)Ex	Ey	(-)Ey
ATAP	kolom tengah	801.2	801.2	519.65	519.65	0.0890	0.0890	0.0888	0.0888	1232.615	1232.615	799.4615	799.4615
10	kolom tengah	1137.61	1137.61	1135.83	1135.83	0.1945	0.1945	0.0888	0.0888	1750.169	1750.169	1747.431	1747.431
9	kolom tengah	1754.22	1754.22	1752.19	1752.19	0.2999	0.2999	0.2995	0.2995	2698.8	2698.8	2695.677	2695.677
8	kolom tengah	2372.52	2372.52	2370.25	2370.25	0.2980	0.2980	0.2977	0.2977	3650.031	3650.031	3646.538	3646.538
7	kolom tengah	2999.5	2999.5	2996.94	2996.94	0.3767	0.3767	0.3764	0.2977	4614.615	4614.615	4610.677	4610.677
6	kolom tengah	3626.24	3626.24	3623.65	3623.65	0.4554	0.4554	0.4551	0.4551	5578.831	5578.831	5574.846	5574.846
5	kolom tengah	4255.24	4255.24	4252.5	4252.5	0.4092	0.4092	0.4089	0.4089	6546.523	6546.523	6542.308	6542.308
4	kolom tengah	4894.75	4891.89	4891.89	4891.89	0.4706	0.4704	0.4704	0.4704	7530.385	7525.985	7525.985	7525.985
3	kolom tengah	5537.48	5537.48	5534.52	5534.52	0.4207	0.4207	0.4205	0.4205	8519.2	8519.2	8514.646	8514.646
2	kolom tengah	6192.64	6192.64	6189.63	6189.63	0.4705	0.4705	0.4702	0.4702	9527.138	9527.138	9522.508	9522.508
1	kolom tengah	6851.89	6851.89	6848.85	6848.85	0.4217	0.4217	0.4215	0.4215	10541.37	10541.37	10536.69	10536.69
GROUND	kolom tengah	7525.34	7525.34	7522.36	7522.36	0.4631	0.4631	0.4629	0.4629	11577.45	11577.45	11572.86	11572.86

Tabel 5.17 Momen Lanjutan

Tingkat	Jenis Kolom	km				Me			
		Ex	(-)Ex	Ey	(-)Ey	Ex	(-)Ex	Ey	(-)Ey
ATAP	kolom tengah	0.28	0.28	0.28	0.28	1512	1512	1512	1512
10	kolom tengah	0.118	0.118	0.118	0.118	1350	1350	1512	1512
9	kolom tengah	0.138	0.138	0.138	0.138	1501.2	1501.2	1501.2	1501.2
8	kolom tengah	0.138	0.138	0.138	0.138	2383.85	2383.85	2383.85	2383.85
7	kolom tengah	0.14	0.14	0.14	0.14	2383.85	2383.85	2383.85	2383.85
6	kolom tengah	0.138	0.14	0.14	0.14	2383.85	2401	2401	2401
5	kolom tengah	0.14	0.14	0.14	0.14	3584	3584	3584	3584
4	kolom tengah	0.14	0.14	0.14	0.14	1792	1792	1792	1792
3	kolom tengah	0.14	0.14	0.14	0.14	2551.5	2551.5	2551.5	2551.5
2	kolom tengah	0.14	0.14	0.14	0.14	2551.5	2551.5	2551.5	2551.5
1	kolom tengah	0.14	0.14	0.14	0.14	3500	3500	3500	3500
GROUND	kolom tengah	0.138	0.138	0.138	0.138	3450	3450	3450	3450

Tabel 5.18. Momen Kapasitas Balok Untuk Perancangan Kolom arah x

Tingkat	Jenis Kolom	Balok Arah X						Mg	6/5 Mg
		Gempa Kiri (EX)		Mg	6/5 Mg	Gempa Kanan (-EX)			
		ki ; Mn-	ka ; Mn+			ki ; Mn+	ka ; Mn-		
ATAP	kolom tengah	555.0179	596.1505	1151.1684	1381.4021	596.1505	555.0179	1151.1684	1381.4021
10	kolom tengah	555.0179	596.1505	1151.1684	1381.4021	596.1505	555.0179	1151.1684	1381.4021
9	kolom tengah	555.0179	596.1505	1151.1684	1381.4021	596.1505	555.0179	1151.1684	1381.4021
8	kolom tengah	555.0179	596.1505	1151.1684	1381.4021	596.1505	555.0179	1151.1684	1381.4021
7	kolom tengah	555.0179	596.1505	1151.1684	1381.4021	596.1505	555.0179	1151.1684	1381.4021
6	kolom tengah	555.0179	596.1505	1151.1684	1381.4021	596.1505	555.0179	1151.1684	1381.4021
5	kolom tengah	555.0179	596.1505	1151.1684	1381.4021	596.1505	555.0179	1151.1684	1381.4021
4	kolom tengah	555.0179	596.1505	1151.1684	1381.4021	596.1505	555.0179	1151.1684	1381.4021
3	kolom tengah	555.0179	596.1505	1151.1684	1381.4021	596.1505	555.0179	1151.1684	1381.4021
2	kolom tengah	555.0179	596.1505	1151.1684	1381.4021	596.1505	555.0179	1151.1684	1381.4021
1	kolom tengah	555.0179	596.1505	1151.1684	1381.4021	596.1505	555.0179	1151.1684	1381.4021
GROUND	kolom tengah	555.0179	596.1505	1151.1684	1381.4021	596.1505	555.0179	1151.1684	1381.4021

(Lanjutan) Momen Kapasitas Balok Untuk Perancangan Kolom arah y

Tingkat	Jenis Kolom	Balok Arah Y						Mg	6/5 Mg
		Gempa Kiri (EY)		Mg	6/5 Mg	Gempa Kanan (-EY)			
		ki ; Mn-	ka ; Mn+			ki ; Mn+	ka ; Mn-		
ATAP	kolom tengah	888.2693	935.5215	1823.7908	2188.5490	935.5215	888.2693	1823.7908	2188.5490
10	kolom tengah	888.2693	935.5215	1823.7908	2188.5490	935.5215	888.2693	1823.7908	2188.5490
9	kolom tengah	888.2693	935.5215	1823.7908	2188.5490	935.5215	888.2693	1823.7908	2188.5490
8	kolom tengah	888.2693	935.5215	1823.7908	2188.5490	935.5215	888.2693	1823.7908	2188.5490
7	kolom tengah	888.2693	935.5215	1823.7908	2188.5490	935.5215	888.2693	1823.7908	2188.5490
6	kolom tengah	888.2693	935.5215	1823.7908	2188.5490	935.5215	888.2693	1823.7908	2188.5490
5	kolom tengah	888.2693	935.5215	1823.7908	2188.5490	935.5215	888.2693	1823.7908	2188.5490
4	kolom tengah	888.2693	935.5215	1823.7908	2188.5490	935.5215	888.2693	1823.7908	2188.5490
3	kolom tengah	888.2693	935.5215	1823.7908	2188.5490	935.5215	888.2693	1823.7908	2188.5490
2	kolom tengah	888.2693	935.5215	1823.7908	2188.5490	935.5215	888.2693	1823.7908	2188.5490
1	kolom tengah	888.2693	935.5215	1823.7908	2188.5490	935.5215	888.2693	1823.7908	2188.5490
GROUND	kolom tengah	888.2693	935.5215	1823.7908	2188.5490	935.5215	888.2693	1823.7908	2188.5490

Tabel 5.19. Syarat Perancangan Kolom

Tingkat	Jenis Kolom		Ex			(-) Ex			Ey			(-) Ey		
			Me	(6/5) Mg	Syarat	Me	(6/5) Mg	Syarat	Me	(6/5) Mg	Syarat	Me	(6/5) Mg	Syarat
ATAP	kolom tengah	1%	1512	1381.402	ok	1512	1381.402	ok	1512	2188.549	ok	1512	2188.549	ok
10	kolom tengah	1%	1350	1381.402	ok	1350	1381.402	ok	1512	2188.549	ok	1512	2188.549	ok
9	kolom tengah	1%	1501.2	1381.402	ok	1501.2	1381.402	ok	1501.2	2188.549	ok	1501.2	2188.549	ok
8	kolom tengah	1%	2383.85	1381.402	ok	2383.85	1381.402	ok	2383.85	2188.549	ok	2383.85	2188.549	ok
7	kolom tengah	1%	2383.85	1381.402	ok	2383.85	1381.402	ok	2383.85	2188.549	ok	2383.85	2188.549	ok
6	kolom tengah	1%	2383.85	1381.402	ok	2401	1381.402	ok	2401	2188.549	ok	2401	2188.549	ok
5	kolom tengah	1%	3584	1381.402	ok	3584	1381.402	ok	3584	2188.549	ok	3584	2188.549	ok
4	kolom tengah	1%	3584	1381.402	ok	3584	1381.402	ok	3584	2188.549	ok	3584	2188.549	ok
3	kolom tengah	1%	5103	1381.402	ok	5103	1381.402	ok	5103	2188.549	ok	5103	2188.549	ok
2	kolom tengah	1%	5103	1381.402	ok	5103	1381.402	ok	5103	2188.549	ok	5103	2188.549	ok
1	kolom tengah	1%	7050	1381.402	ok	7050	1381.402	ok	7050	2188.549	ok	7050	2188.549	ok
GROUND	kolom tengah	1%	6950	1381.402	ok	6950	1381.402	ok	6950	2188.549	ok	6950	2188.549	ok

Tabel 5.20. Perancangan Tulangan Kolom

Tingkat	Label Kolom	b	h	p	Ast butuh	Jumlah Tulangan	Ast Terpakai
ATAP	C25	600	600	1%	3600	8 D 25	5893
10	C25	600	600	1%	3600	8 D 25	3929
9	C25	600	600	1%	3600	8 D 25	3929
8	C68	700	700	1%	4900	12 D 25	5893
7	C68	700	700	1%	4900	12 D 25	5893
6	C68	700	700	1%	4900	12 D 25	5893
5	C68	800	800	1%	6400	16 D 25	7857
4	C68	800	800	1%	6400	16 D 25	7857
3	C68	900	900	1%	8100	20 D 25	9821
2	C68	900	900	1%	8100	20 D 25	9821
1	C68	1000	1000	1%	10000	24 D 25	11786
GROUND	C68	1000	1000	1%	10000	24 D 25	11786