

BAB VII

KESIMPULAN DAN SARAN

7.1. Kesimpulan

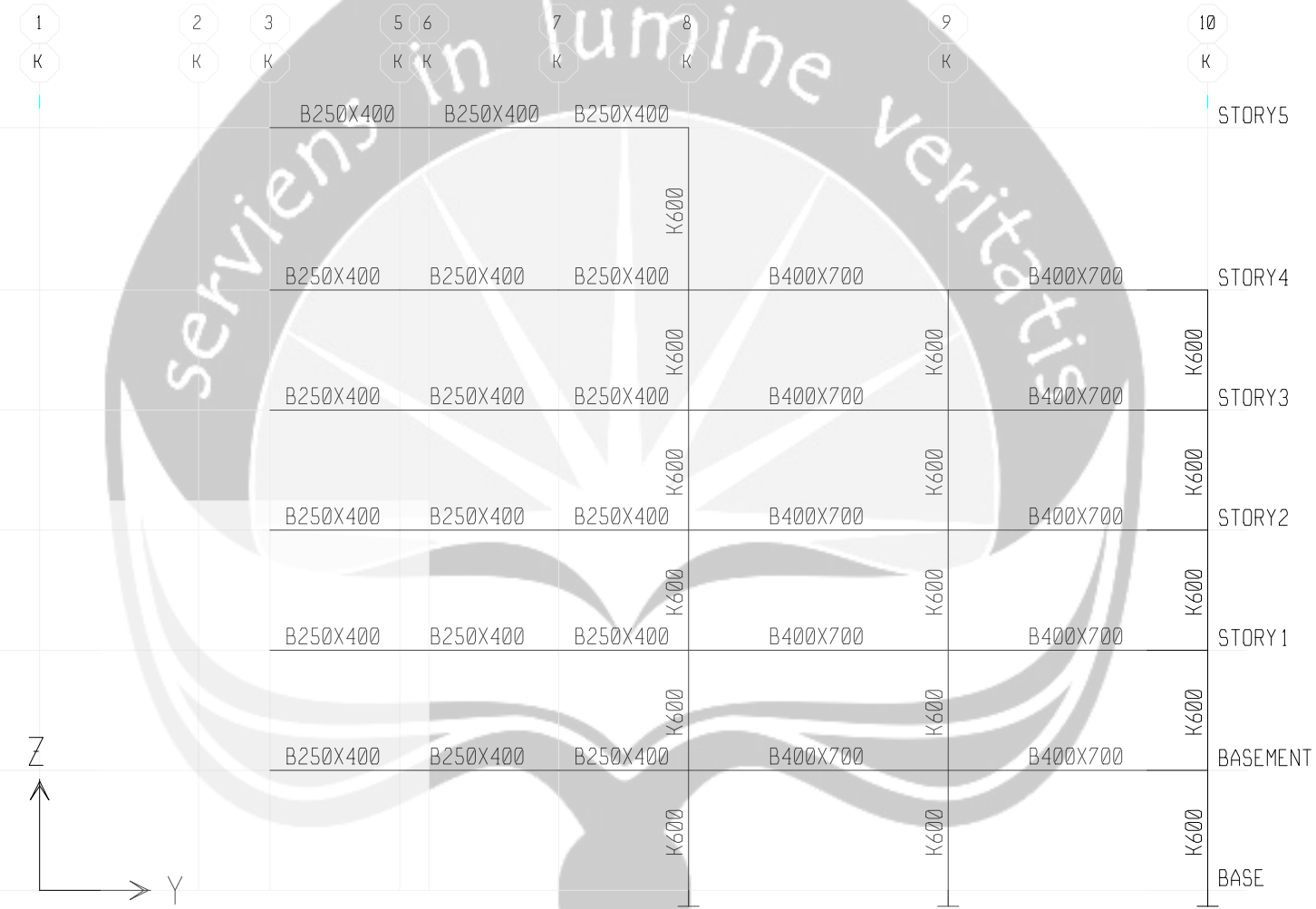
Setelah melakukan analisis dan perancangan pada struktur Gedung *Hotel Permata Krakatau Cilegon* , penyusun dapat mengambil kesimpulan sebagai berikut.

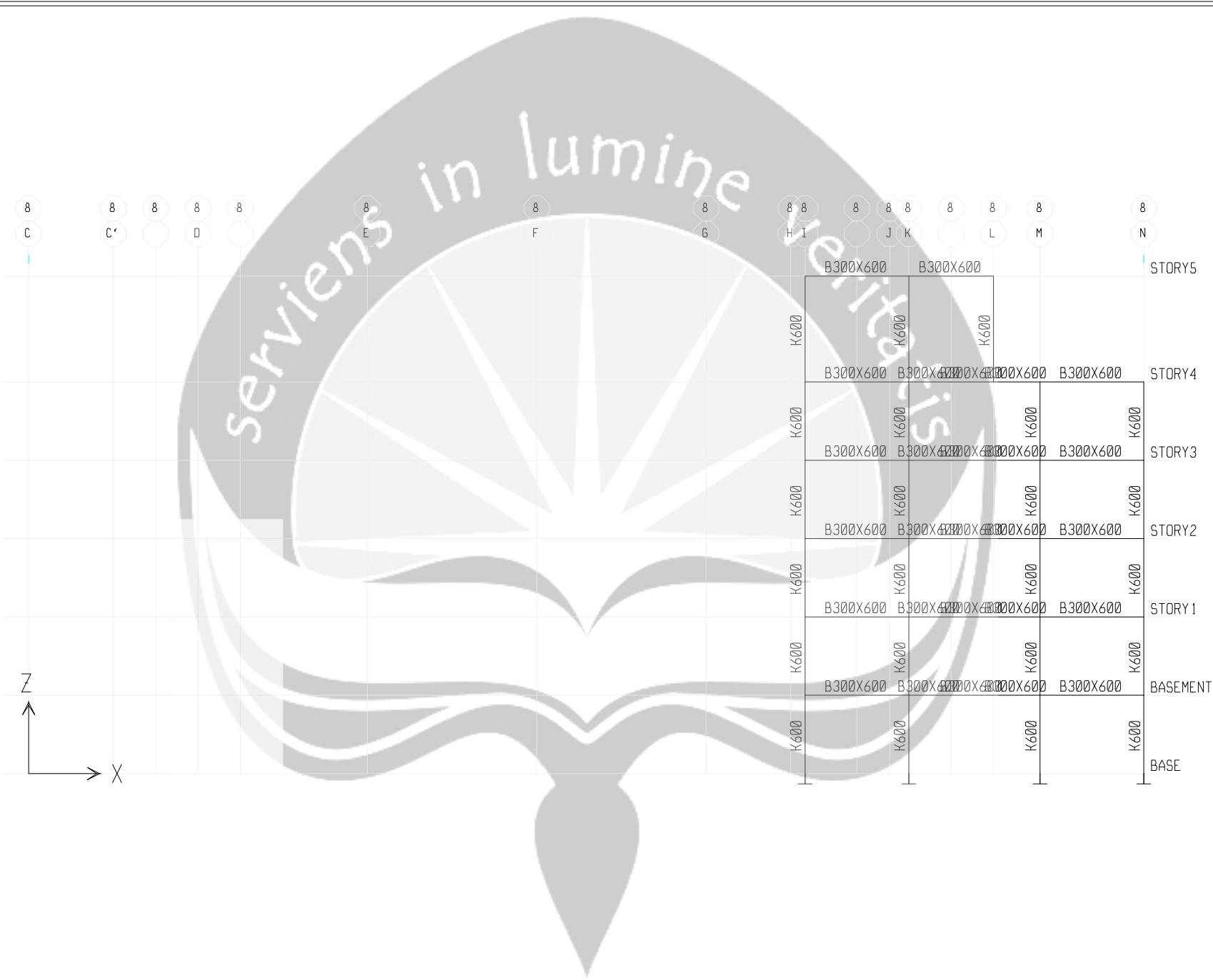
1. Dalam perencanaan struktur gedung ini digunakan pelat lantai dua arah. Sedangkan tebal pelat lantai yang digunakan ialah 120 mm, dengan tulangan utama P10-150 untuk pelat atap digunakan pelat dengan tebal 120 mm dengan tulangan utama P10-150.
2. Pada perencanaan balok diperoleh dimensi balok induk sebesar 400/700 untuk semua bentang. Untuk bentang 8 m menggunakan tulangan pokok atas 4D25 dan tulangan pokok bawah 2D25.. Tulangan sengkang balok yang digunakan P10 mm.
3. Pada perencanaan kolom diperoleh dimensi kolom 600/600 untuk lantai 1 sampai lantai 6 dengan tulangan pokok 12 D23. Tulangan sengkang kolom yang digunakan P10 mm.
4. Dari hasil perencanaan fondasi pancang digunakan poer 4,5m x 4,5m dengan tebal poer 1,5m. Jumlah tiang yang diperlukan dalam satu poer adalah 5 tiang pancang diameter 50 cm.

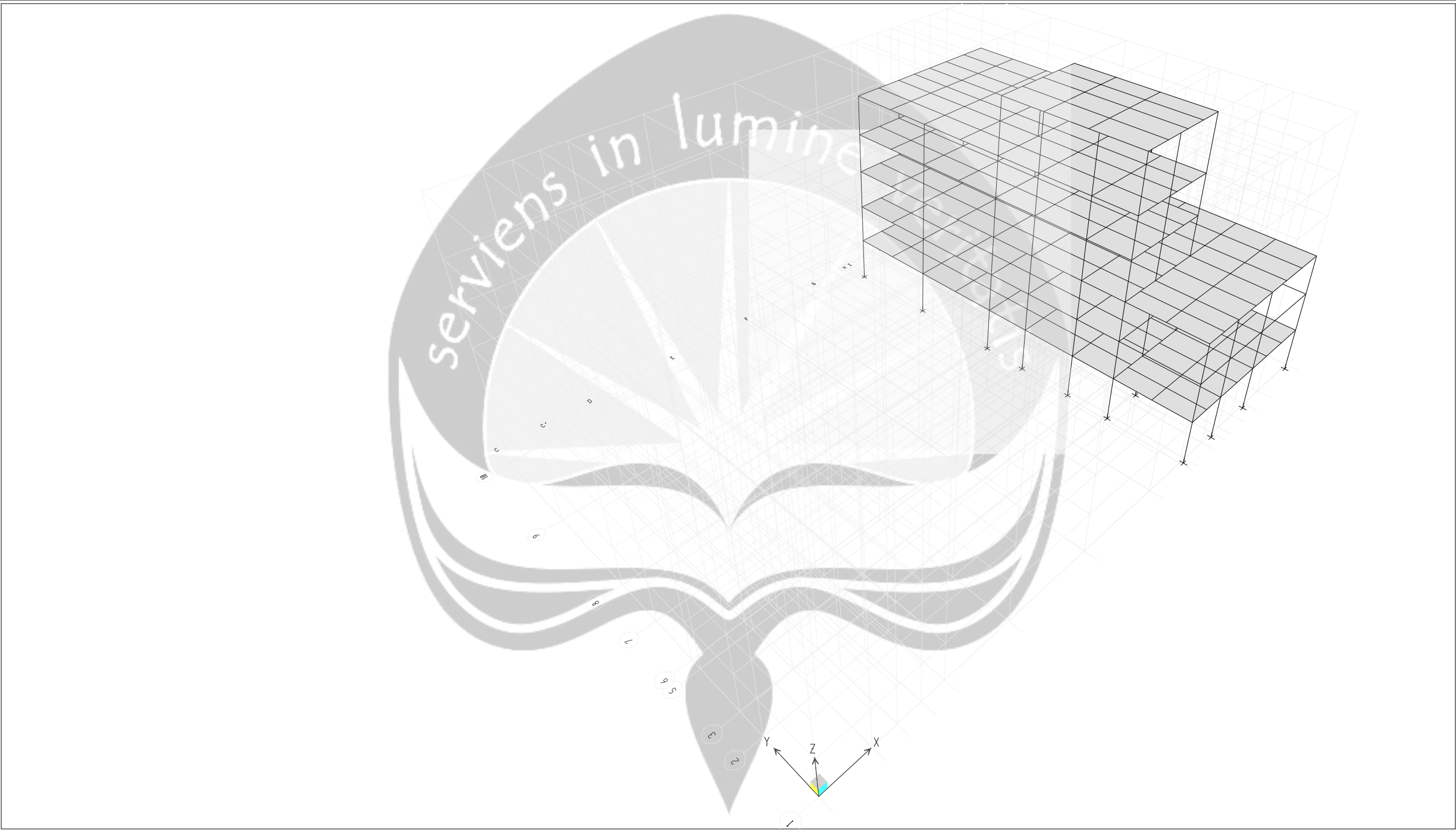
7.2. Saran

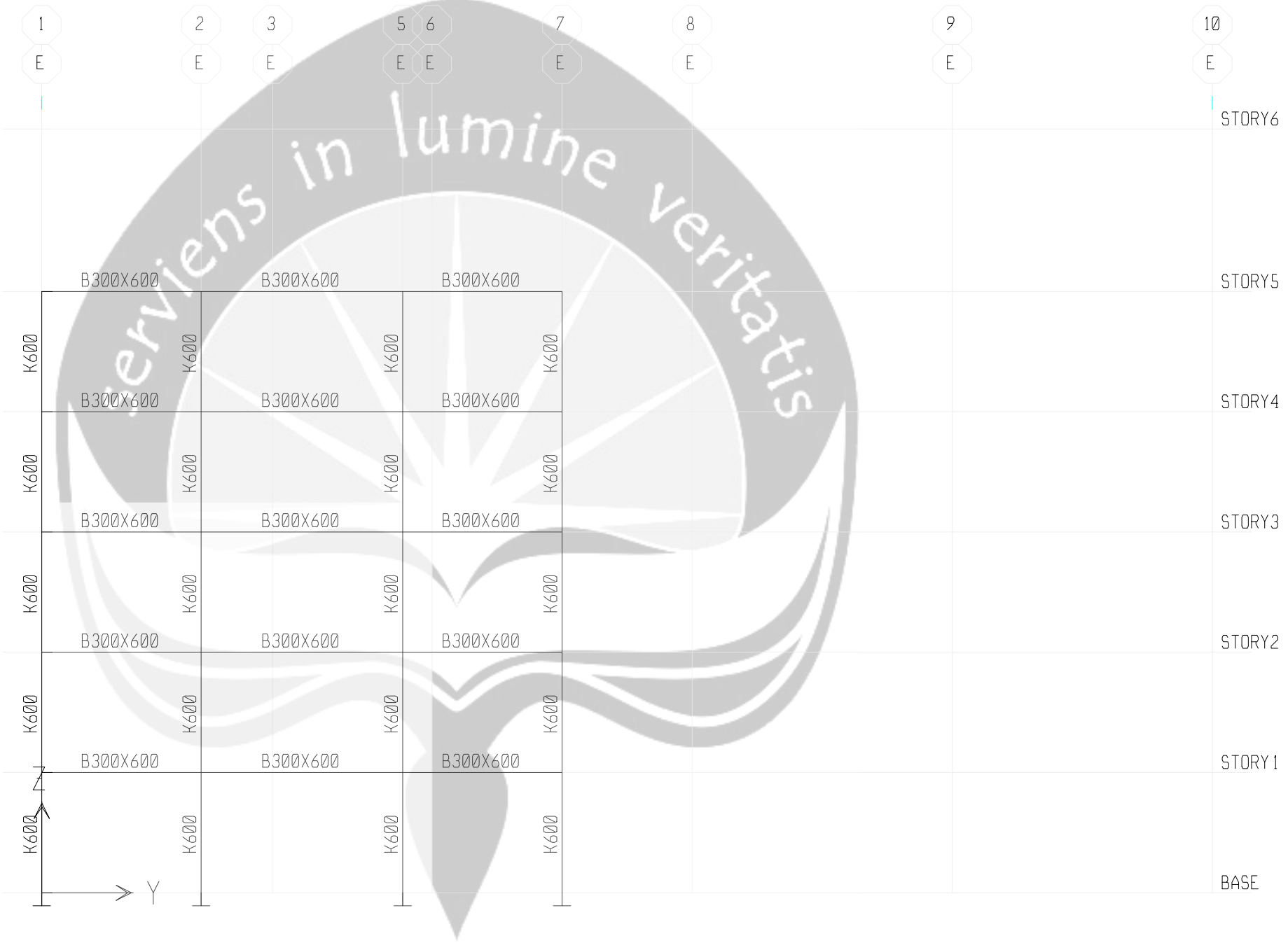
Setelah menyelesaikan penulisan tugas akhir ini, penyusun dapat memberikan beberapa saran sebagai berikut.

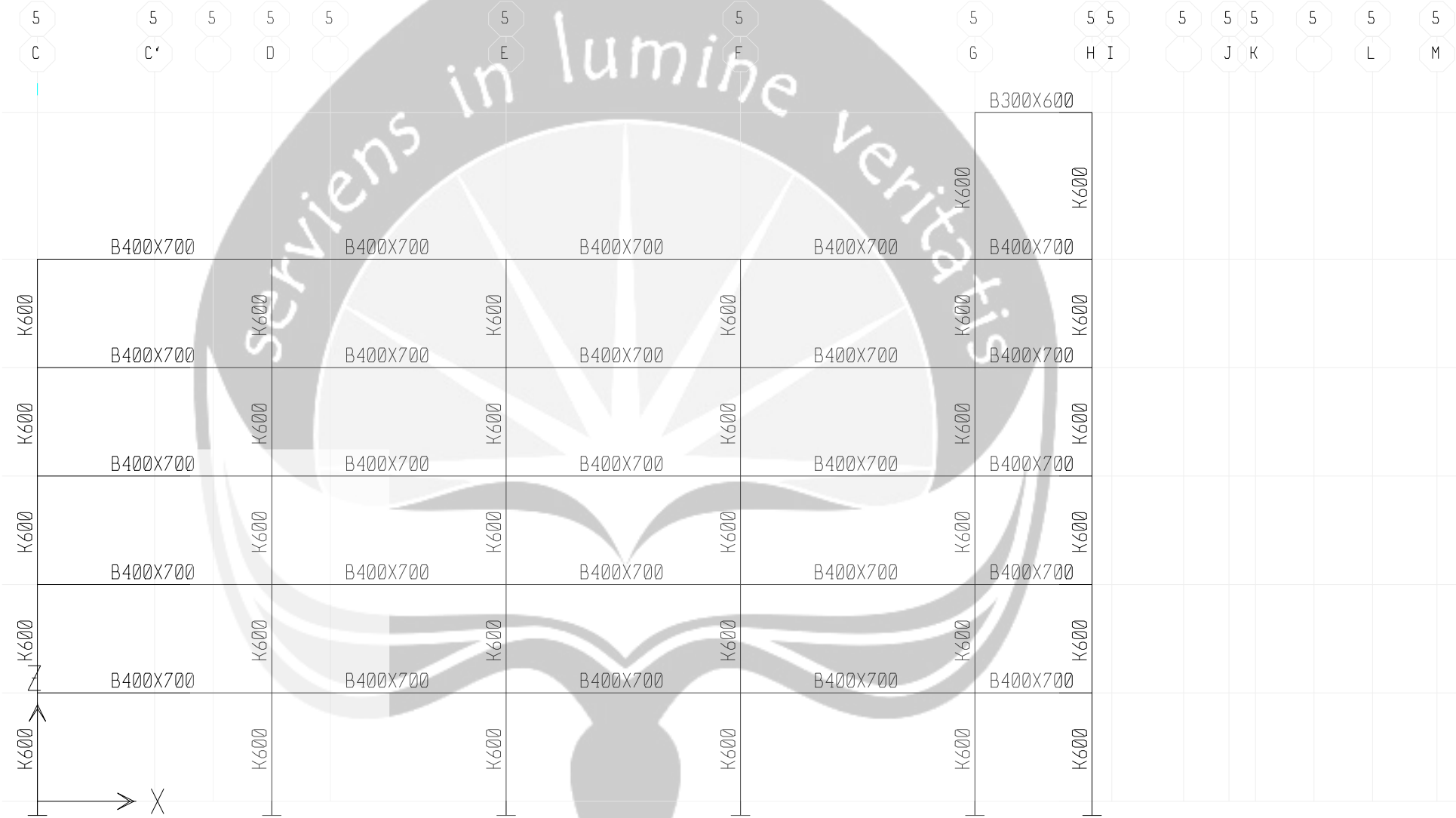
1. Perencanaan awal dimensi komponen-komponen struktur hendaknya dilakukan dengan mengacu pada peraturan-peraturan yang digunakan, sehingga didapatkan dimensi awal komponen-komponen struktur yang aman.
2. Dalam melakukan input data pada program komputer ETABS versi 7.10, hendaknya dilakukan dengan teliti sesuai dengan perencanaan awal sehingga didapatkan analisis struktur yang mendekati kenyataan.
3. Sebaiknya perencanaan fondasi juga memperhitungkan fungsi bangunan itu sendiri dan biaya yang dikeluarkan, sehingga tidak terjadi pemborosan yang tidak berarti.

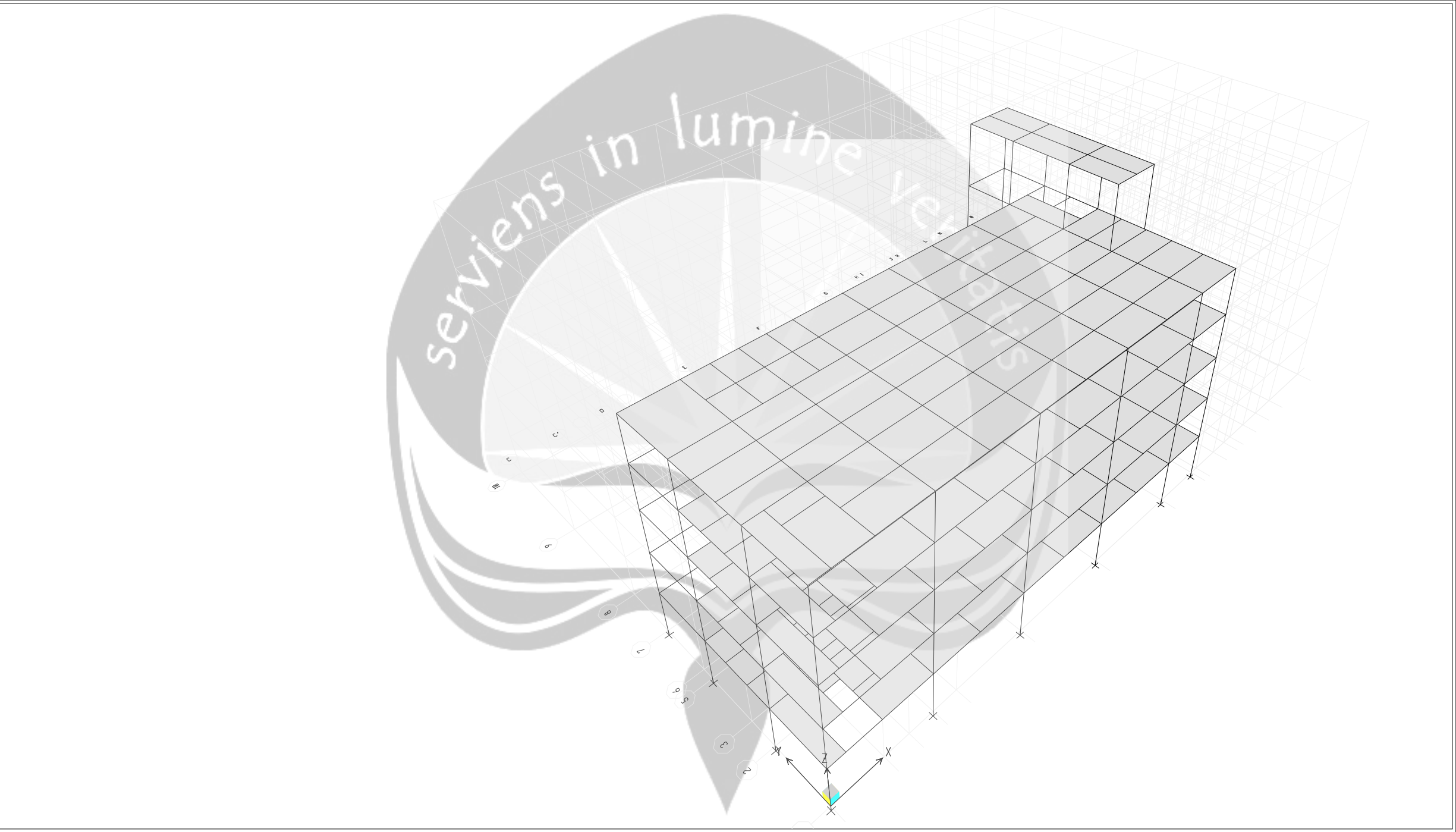


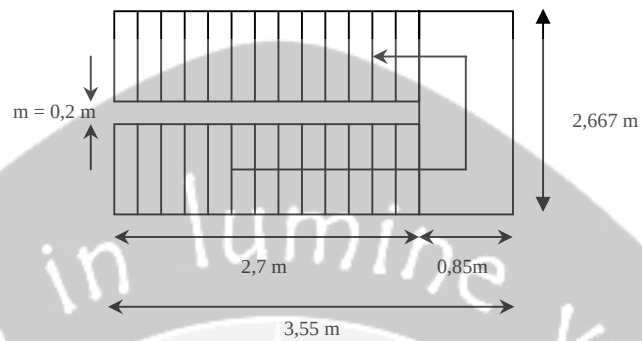




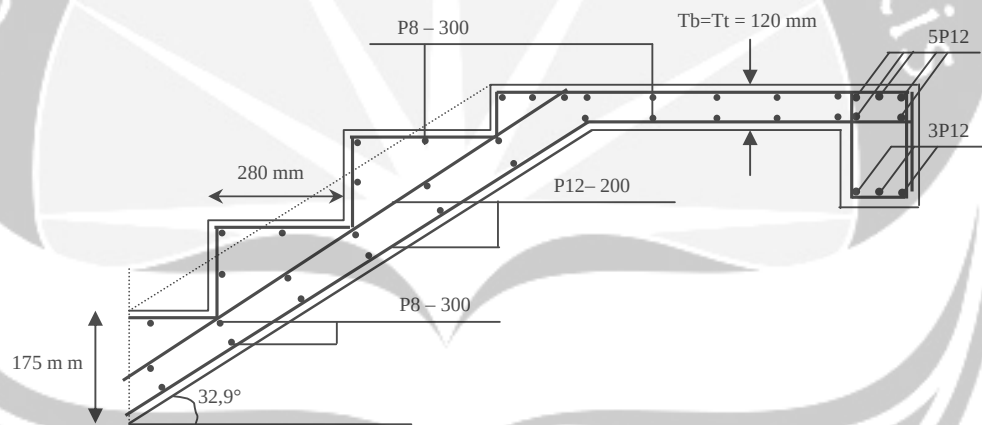




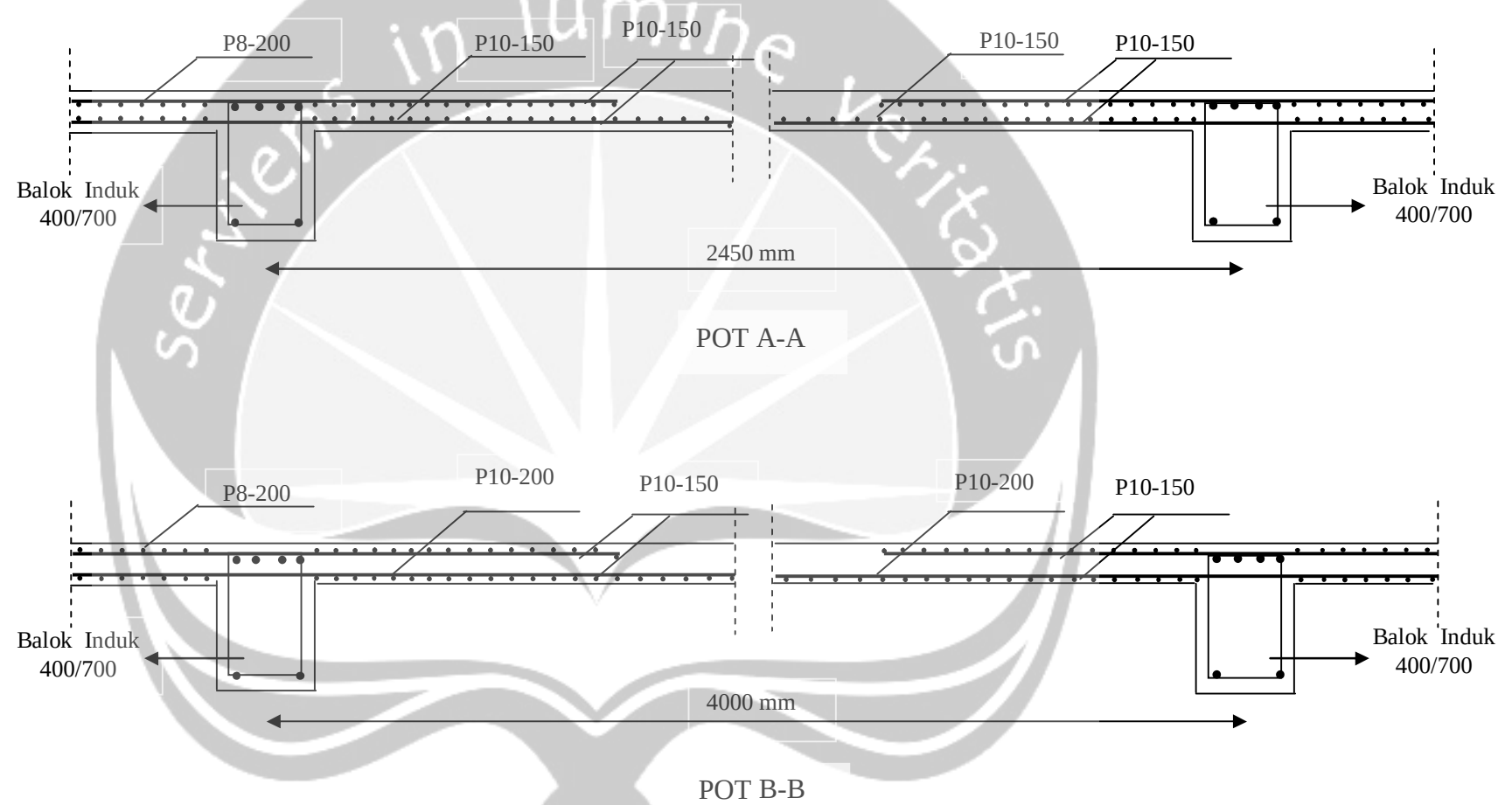




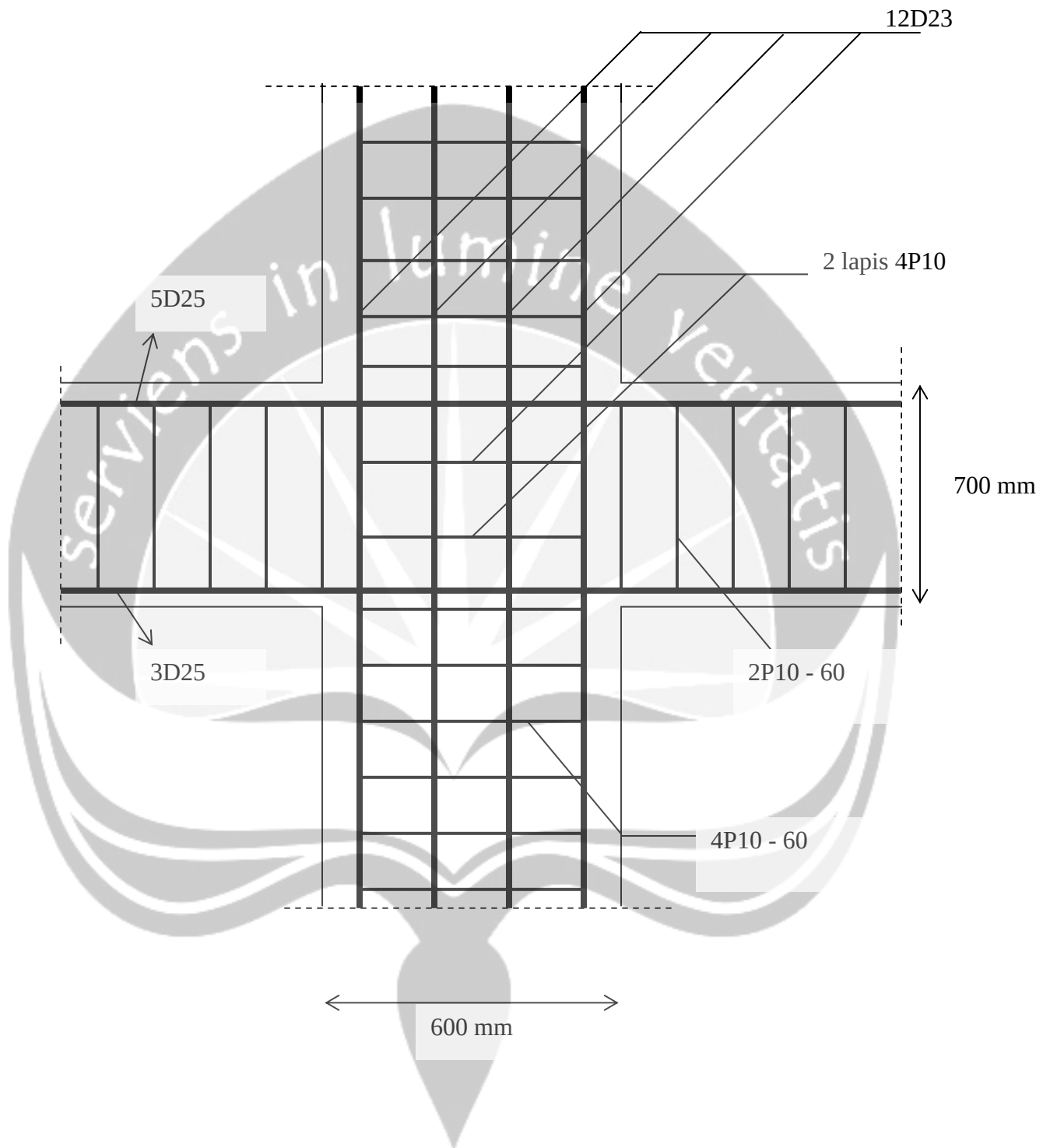
GAMBAR RUANG TANGGA



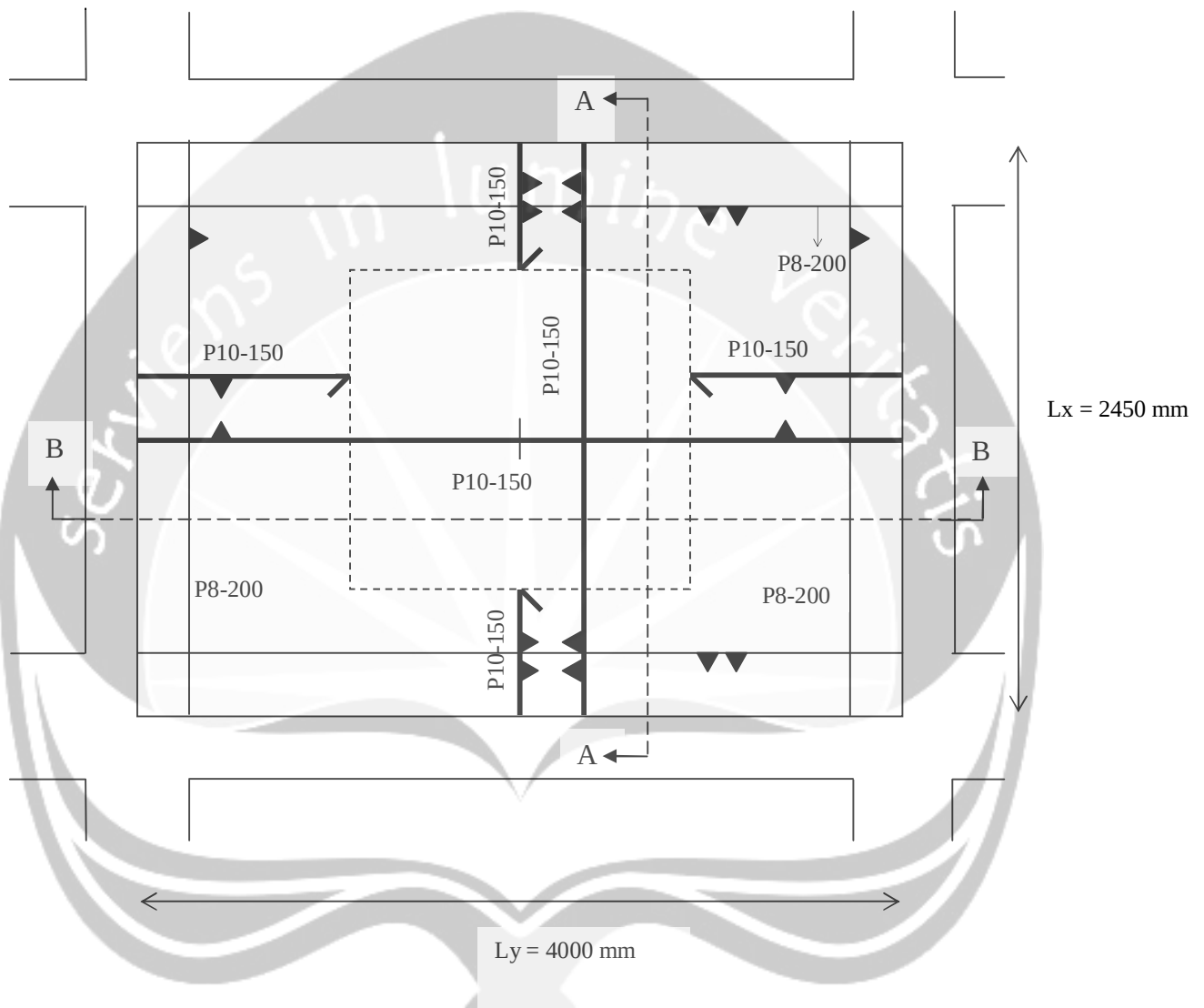
**GAMBAR DETAIL PENULANGAN
TANGGA**



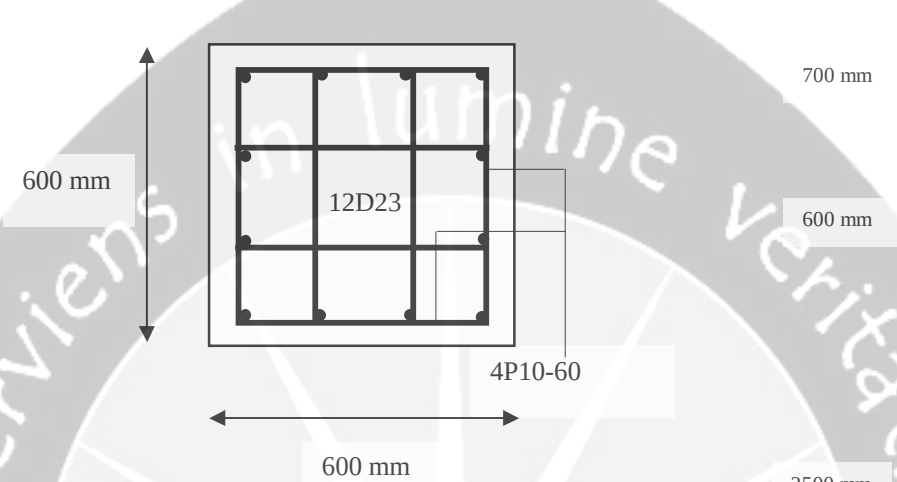
GAMBAR DETAIL PELAT LANTAI



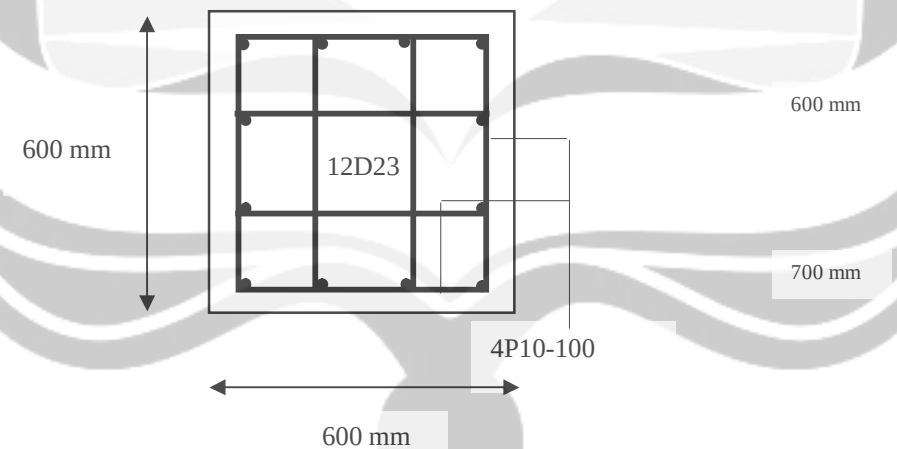
**GAMBAR PERTEMUAN BALOK (B12-B13) DAN KOLOM C15
LANTAI 1**



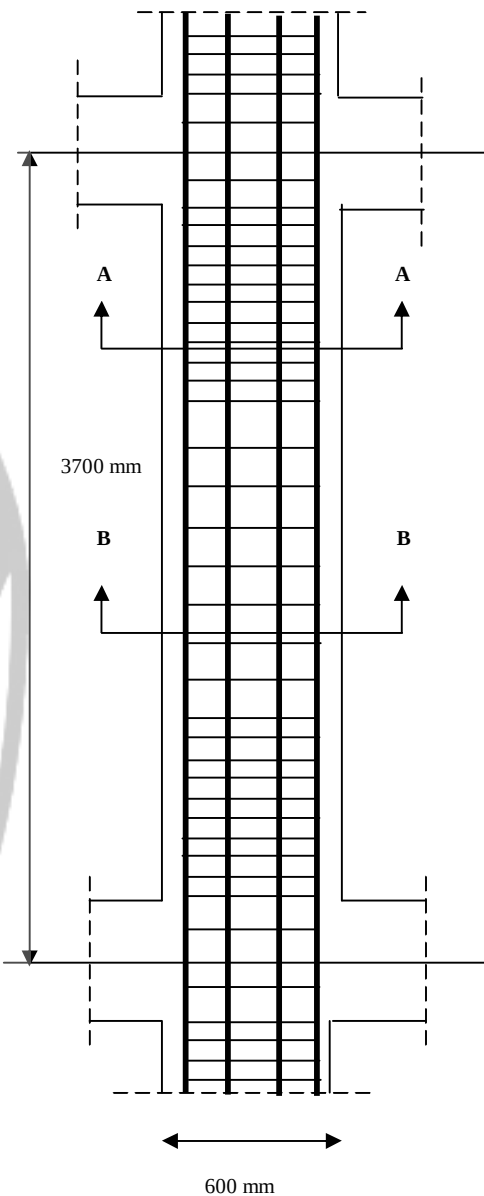
GAMBAR PENULANGAN PELAT



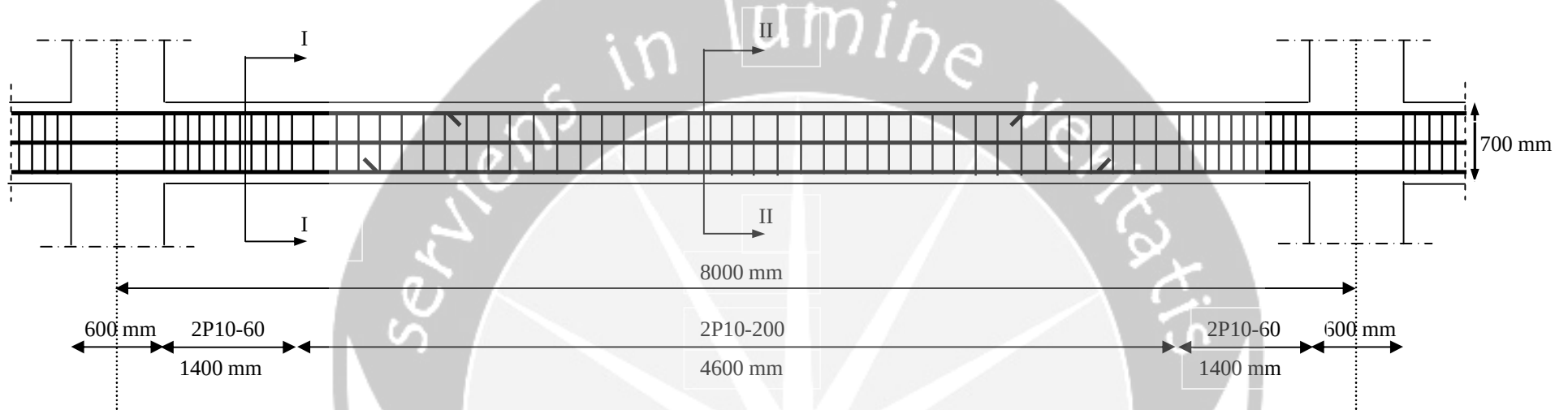
GAMBAR POTONGAN A – A



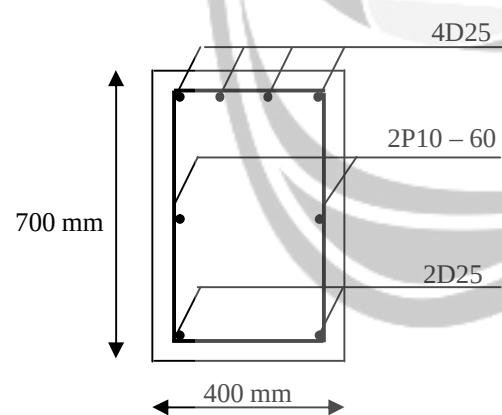
GAMBAR POTONGAN B – B



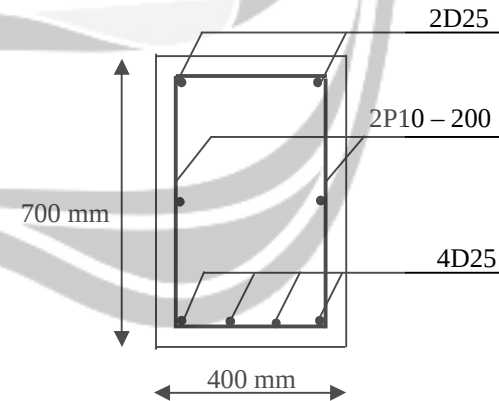
GAMBAR PENULANGAN KOLOM C15 LANTAI 1



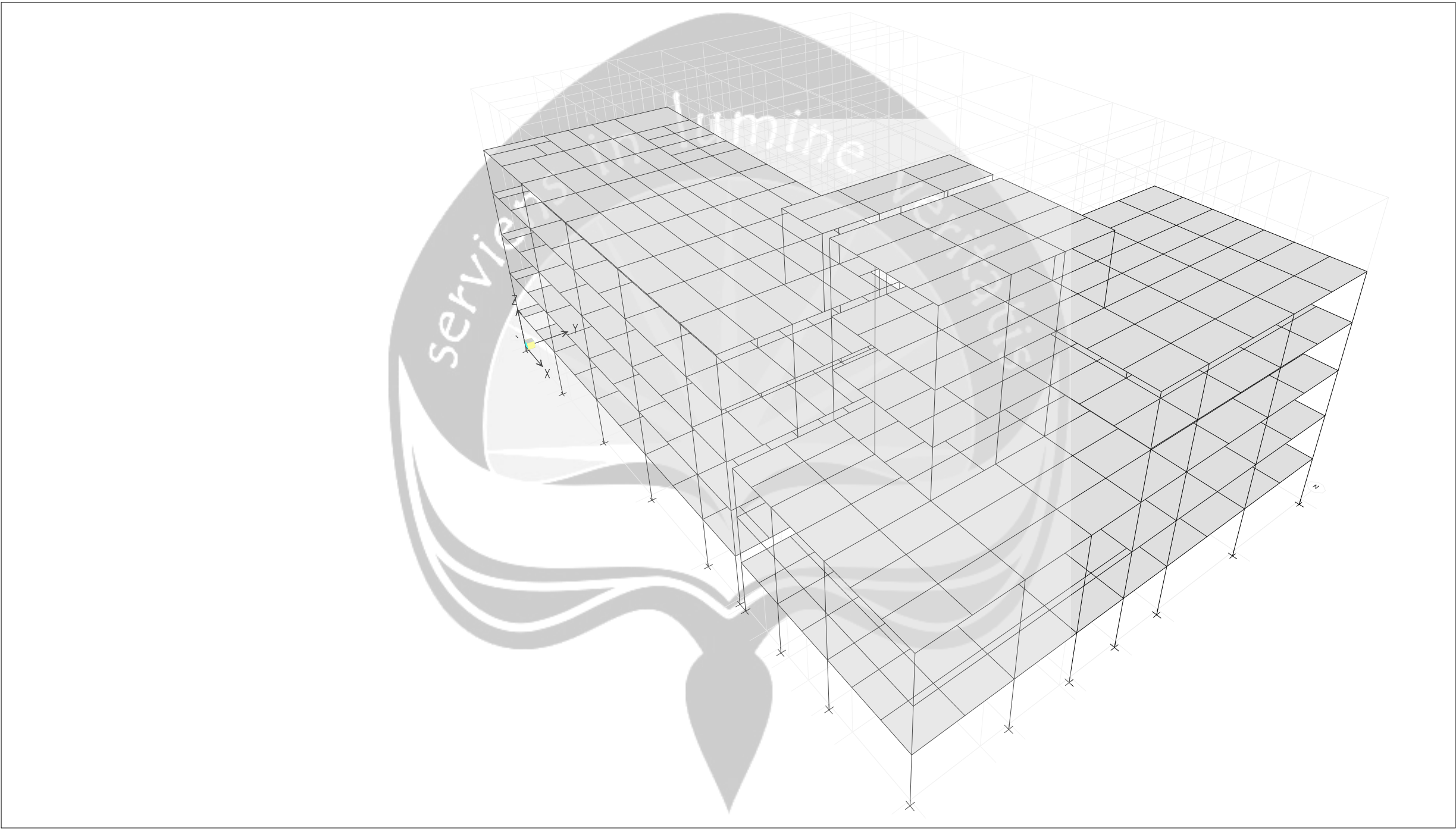
GAMBAR PENULANGAN BALOK B11 Lantai 3

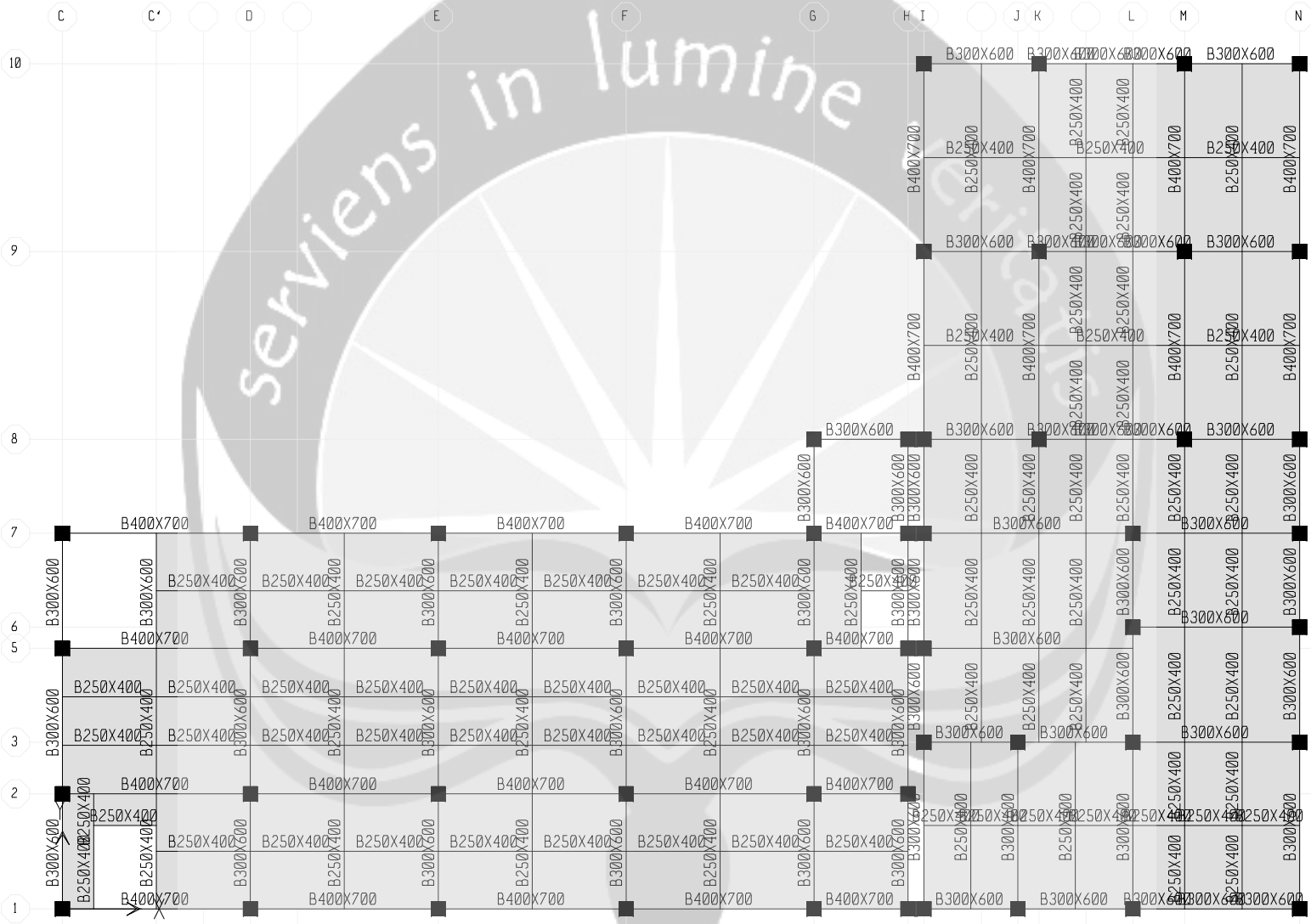


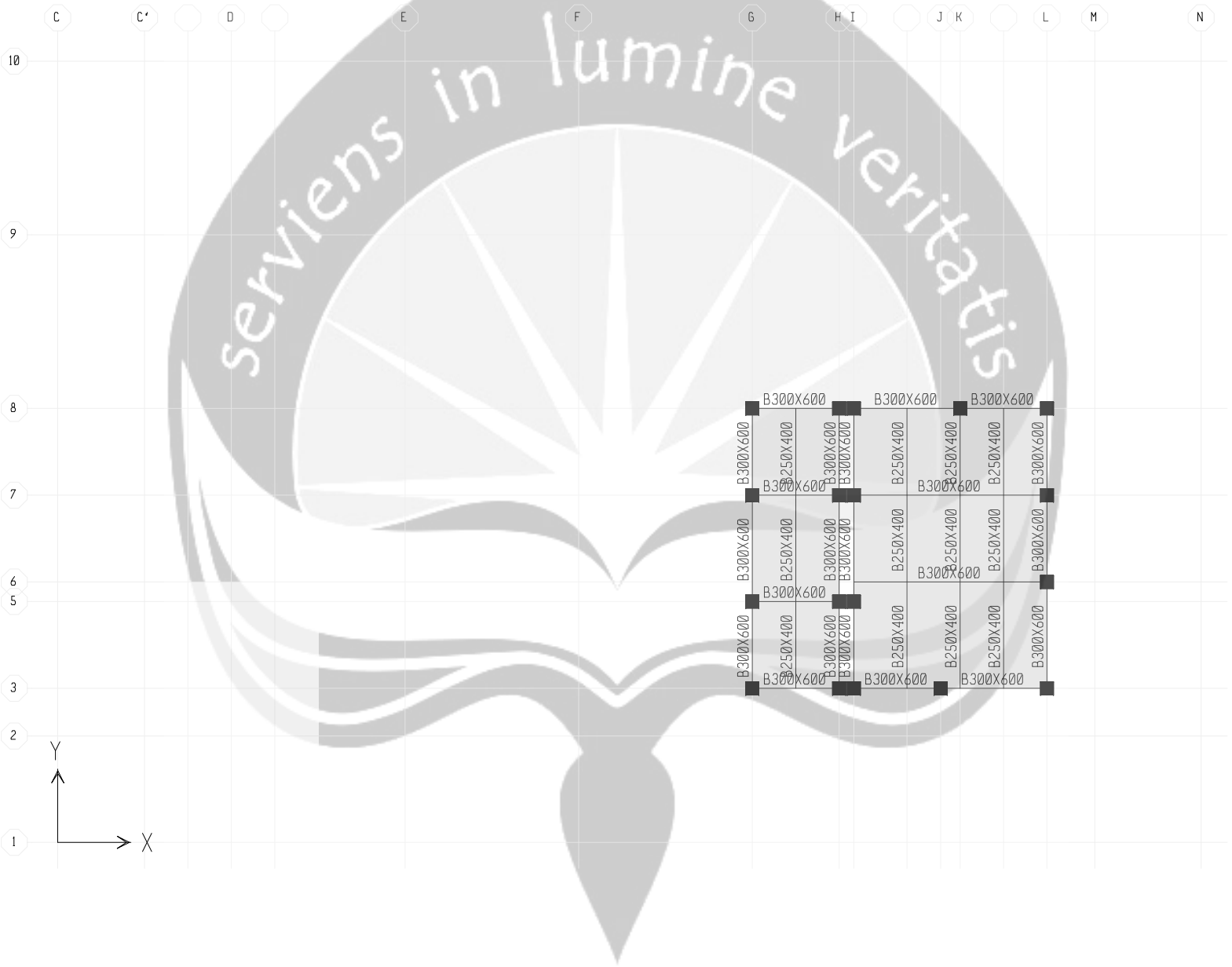
GAMBAR POTONGAN I – I

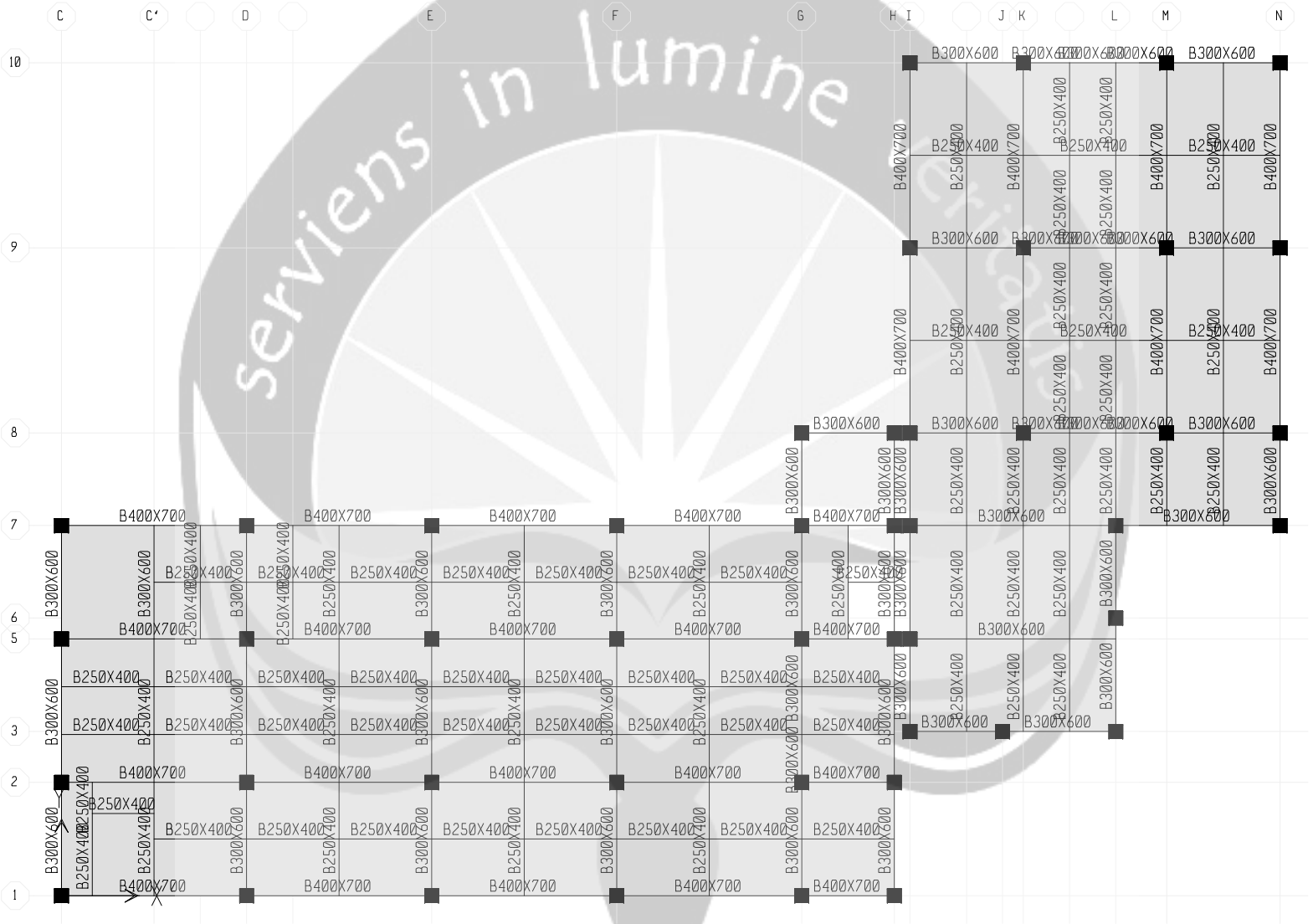


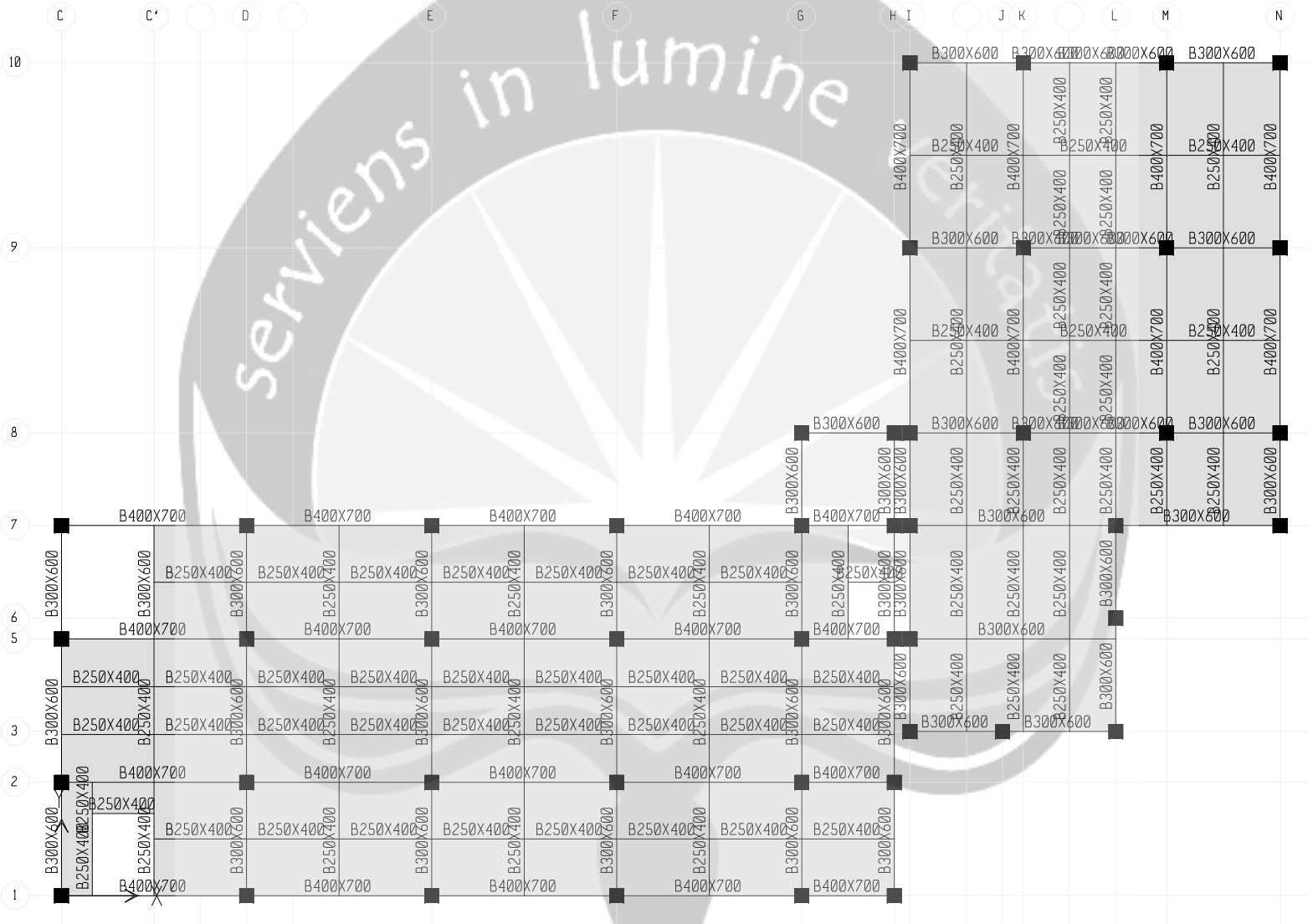
GAMBAR POTONGAN II – II

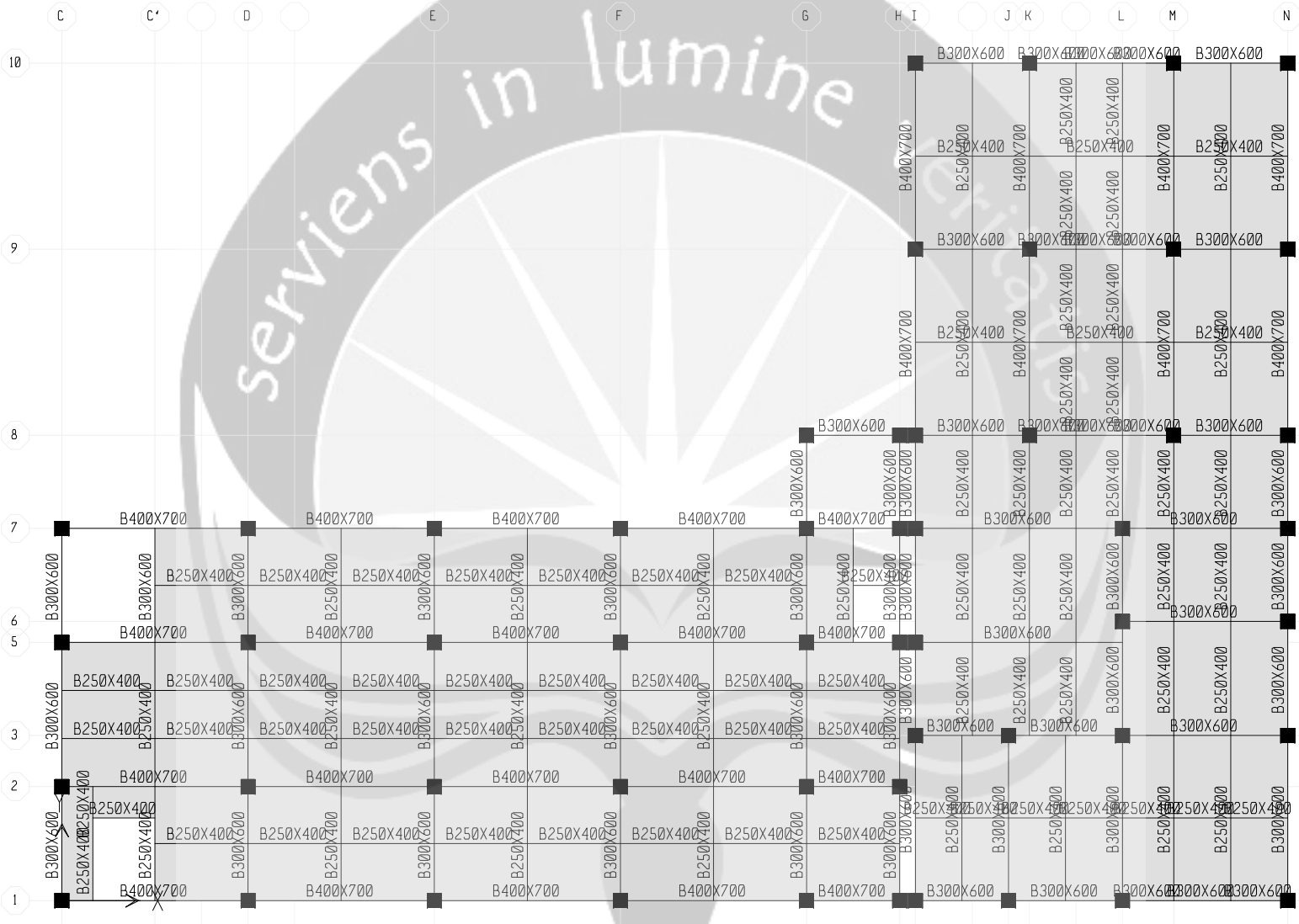


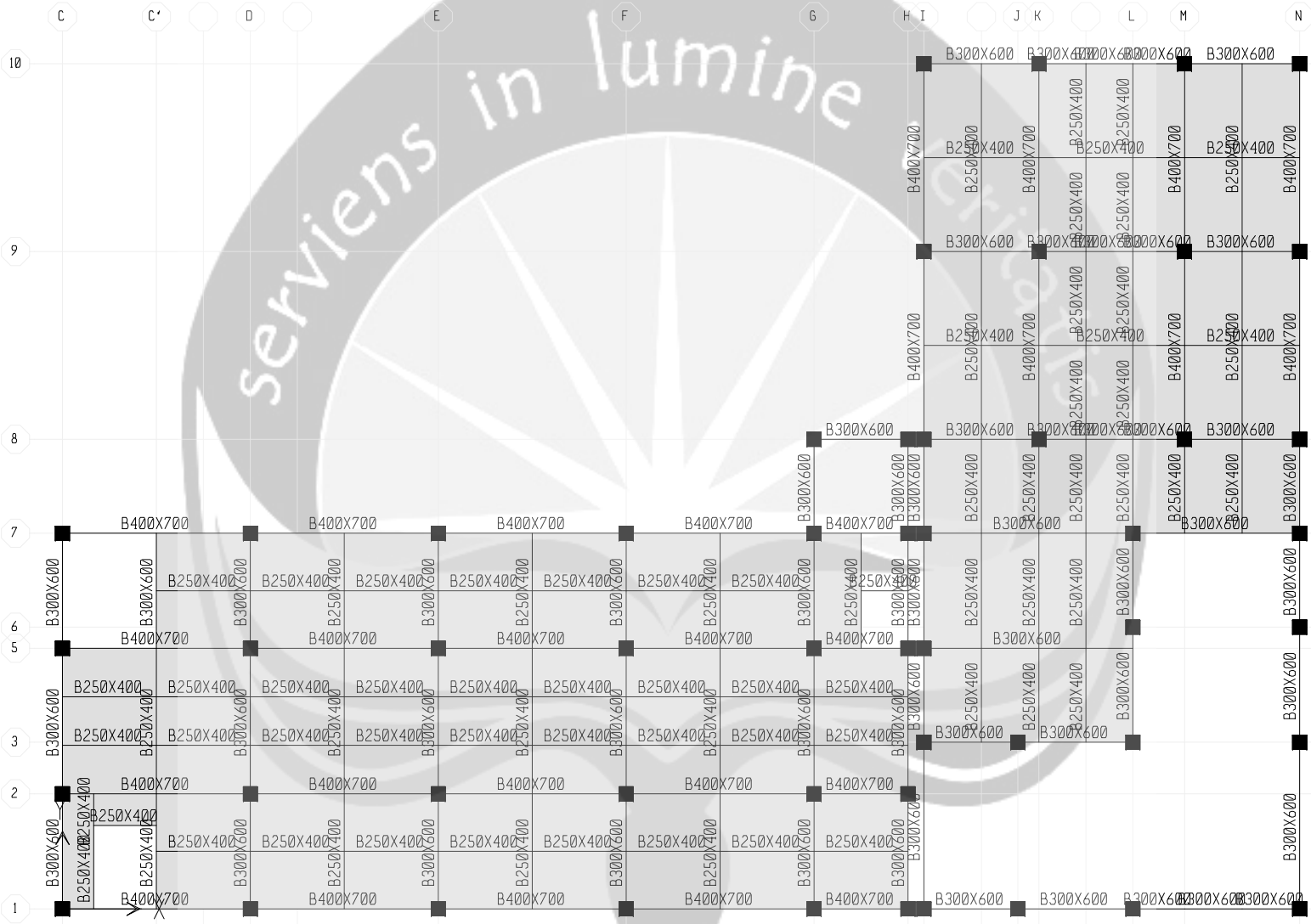


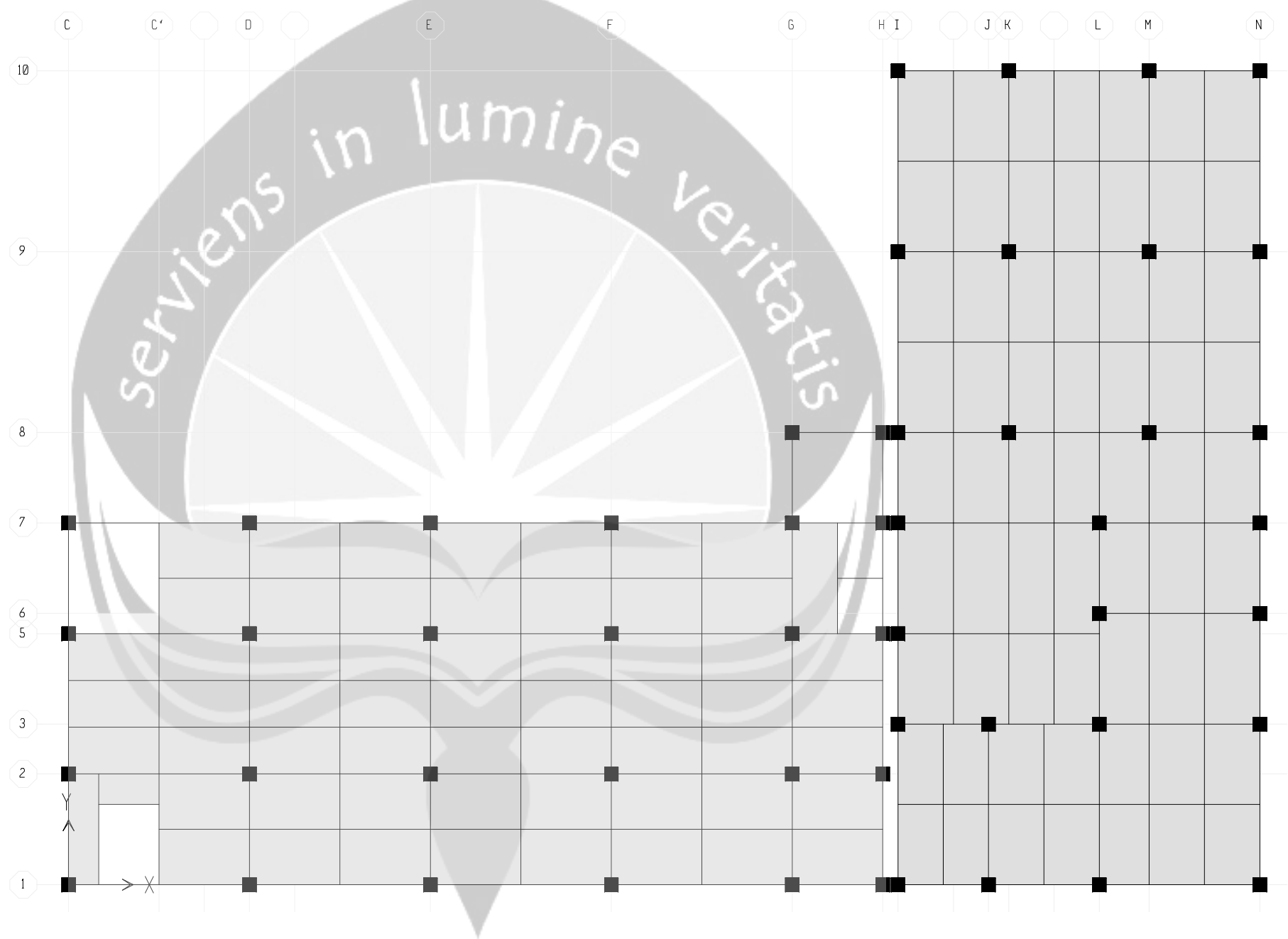












Tabel Penulangan Geser Balok Gedung B Arah Y Elev K

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.
STORY6	B499	250	400	337,5	125,510	121,250	0	66,7042944	167,346844	94,962906	114,05	200,98	3P10 - 70	3P10 - 100
STORY5	B501	250	400	337,5	153,643	147,339	0	66,7042944	204,857753	129,747204	93,16	147,10	3P10 - 70	3P10 - 100
STORY4	B501	250	400	337,5	192,421	186,497	0	66,7042944	256,561153	181,957722	74,39	104,89	3P10 - 70	3P10 - 100
STORY3	B501	250	400	337,5	192,552	186,583	0	66,7042944	256,735339	182,07278	74,34	104,82	3P10 - 70	3P10 - 100
STORY2	B501	250	400	337,5	152,986	146,905	0	66,7042944	203,981479	129,168381	93,56	147,75	3P10 - 70	3P10 - 100
STORY1	B501	250	400	337,5	153,565	147,287	0	66,7042944	204,753028	129,678028	93,21	147,17	3P10 - 70	3P10 - 100
STORY5	B517	400	700	637,5	211,221	200,149	0	201,595201	281,627917	65,2698922	128,00	552,32	3P10 - 70	3P10 - 100
STORY4	B517	400	700	637,5	258,028	235,302	0	201,595201	344,037805	112,140991	104,78	321,47	3P10 - 70	3P10 - 100
STORY3	B517	400	700	637,5	219,633	196,863	0	201,595201	292,843867	60,8888013	123,10	592,06	3P10 - 70	3P10 - 100
STORY2	B517	400	700	637,5	220,269	197,341	0	201,595201	293,692538	61,5261707	122,75	585,93	3P10 - 70	3P10 - 100
STORY1	B517	400	700	637,5	260,324	237,027	0	201,595201	347,099201	114,440162	103,86	315,01	3P10 - 70	3P10 - 100
STORY5	B518	400	700	637,5	212,706	201,264	0	201,595201	283,607782	66,7568111	127,11	540,02	3P10 - 70	3P10 - 100
STORY4	B518	400	700	637,5	221,488	198,256	0	201,595201	295,317043	62,7462067	122,07	574,53	3P10 - 70	3P10 - 100
STORY3	B518	400	700	637,5	260,314	237,018	0	201,595201	347,084854	114,429388	103,86	315,04	3P10 - 70	3P10 - 100
STORY2	B518	400	700	637,5	260,810	237,391	0	201,595201	347,747016	114,926685	103,67	313,68	3P10 - 70	3P10 - 100
STORY1	B518	400	700	637,5	263,407	239,341	0	201,595201	351,209021	117,526721	102,64	306,74	3P10 - 70	3P10 - 100
STORY5	B531	250	400	337,5	120,448	112,788	0	66,7042944	160,597584	83,6794755	118,84	228,07	3P10 - 70	3P10 - 100
STORY4	B531	250	400	337,5	116,878	110,429	0	66,7042944	155,836848	80,5347696	122,47	236,98	3P10 - 70	3P10 - 100
STORY3	B531	250	400	337,5	117,609	110,913	0	66,7042944	156,812505	81,1792402	121,71	235,10	3P10 - 70	3P10 - 100
STORY2	B531	250	400	337,5	137,244	130,845	0	66,7042944	182,992274	107,756215	104,29	177,11	3P10 - 70	3P10 - 100
STORY1	B531	250	400	337,5	138,250	131,510	0	66,7042944	184,333401	108,642097	103,54	175,67	3P10 - 70	3P10 - 100
STORY5	B532	250	400	337,5	100,169	94,832	0	66,7042944	133,558882	59,7379675	142,90	319,48	3P10 - 70	3P10 - 100
STORY4	B532	250	400	337,5	96,707	91,838	0	66,7042944	128,94288	55,7463759	148,01	342,36	3P10 - 70	3P10 - 100
STORY3	B532	250	400	337,5	96,584	91,746	0	66,7042944	128,778771	55,6241434	148,20	343,11	3P10 - 70	3P10 - 100
STORY2	B532	250	400	337,5	96,638	91,787	0	66,7042944	128,850709	55,6777248	148,12	342,78	3P10 - 70	3P10 - 100
STORY1	B532	250	400	337,5	96,453	91,648	0	66,7042944	128,603422	55,4935387	148,40	343,92	3P10 - 70	3P10 - 100

Tabel Penulangan Geser Balok GEDUNG B Arah X Elev 8

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.
STORY6	B495	300	600	537,5	192,231	186,516	0	134,375	256,308572	114,313487	118,59	265,89	3P10 - 60	3P10 - 70
STORY5	B495	300	600	537,5	223,125	204,717	0	134,375	297,500572	138,581642	102,17	219,33	3P10 - 60	3P10 - 70
STORY4	B495	300	600	537,5	272,649	256,292	0	134,375	363,531908	207,347203	83,61	146,59	3P10 - 60	3P10 - 70
STORY3	B495	300	600	537,5	272,387	256,137	0	134,375	363,182908	207,14159	83,69	146,73	3P10 - 60	3P10 - 70
STORY2	B495	300	600	537,5	217,629	201,479	0	134,375	290,171572	134,263781	104,75	226,38	3P10 - 60	3P10 - 70
STORY1	B495	300	600	537,5	220,348	203,081	0	134,375	293,797572	136,400029	103,46	222,84	3P10 - 60	3P10 - 70
STORY6	B496	300	600	537,5	305,598	297,725	0	134,375	407,463743	262,591106	74,60	115,75	3P10 - 60	3P10 - 70
STORY5	B509	300	600	537,5	257,385	247,299	0	134,375	343,179908	195,356877	88,57	155,59	3P10 - 60	3P10 - 70
STORY4	B509	300	600	537,5	222,720	204,478	0	134,375	296,959572	138,262913	102,35	219,83	3P10 - 60	3P10 - 70
STORY3	B509	300	600	537,5	220,480	203,159	0	134,375	293,973572	136,503719	103,39	222,67	3P10 - 60	3P10 - 70
STORY2	B509	300	600	537,5	273,665	256,890	0	134,375	364,886908	208,145497	83,30	146,03	3P10 - 60	3P10 - 70
STORY1	B509	300	600	537,5	275,493	258,676	0	134,375	367,324062	210,526775	82,75	144,38	3P10 - 60	3P10 - 70
STORY5	B534	300	600	537,5	495,673	422,592	0	134,375	660,897988	429,081384	88,30	70,84	4P12 - 60	3P10 - 70
STORY4	B534	300	600	537,5	644,772	563,140	0	134,375	859,695813	616,478688	67,88	71,00	4P12 - 60	3P12 - 70
STORY3	B534	300	600	537,5	644,300	563,859	0	134,375	859,067125	617,436688	67,93	70,89	4P12 - 60	3P12 - 70
STORY2	B534	300	600	537,5	644,189	564,028	0	134,375	858,918813	617,662688	67,94	70,86	4P12 - 60	3P12 - 70
STORY1	B534	300	600	537,5	352,157	272,123	0	134,375	469,542707	228,455519	93,22	133,05	3P12 - 60	3P10 - 70
STORY5	B541	300	600	537,5	381,076	314,664	0	134,375	508,100914	285,176794	86,14	106,58	3P12 - 60	3P10 - 70
STORY4	B541	300	600	537,5	386,683	297,410	0	134,375	515,577771	262,17108	84,89	115,94	3P12 - 60	3P10 - 70
STORY3	B541	300	600	537,5	471,011	380,585	0	134,375	628,015275	373,071585	69,69	81,47	3P12 - 60	3P10 - 70
STORY2	B541	300	600	537,5	471,227	379,921	0	134,375	628,302823	372,186823	69,66	81,67	3P12 - 60	3P10 - 70
STORY1	B541	300	600	537,5	387,250	295,667	0	134,375	516,333009	259,847271	84,77	116,97	3P12 - 60	3P10 - 70
STORY5	B542	300	600	537,5	365,678	348,826	0	134,375	487,570472	330,725996	89,77	91,90	3P12 - 60	3P10 - 70
STORY4	B542	300	600	537,5	365,365	349,787	0	134,375	487,153853	332,007901	89,85	91,55	3P12 - 60	3P10 - 70
STORY3	B542	300	600	537,5	365,641	348,940	0	134,375	487,520949	330,878377	89,78	91,86	3P12 - 60	3P10 - 70
STORY2	B542	300	600	537,5	365,777	348,522	0	134,375	487,70202	330,321234	89,74	92,02	3P12 - 60	3P10 - 70
STORY1	B542	300	600	537,5	365,847	348,304	0	134,375	487,796425	330,030758	89,73	92,10	3P12 - 60	3P10 - 70

Tabel Penulangan Geser Balok Gedung A Arah Y Elev E

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.
STORY4	B27	300	600	537,5	223,275	204,805	0	134,375	297,699572	138,698882	102,10	146,10	3P10 - 80	2P10 - 90
STORY3	B27	300	600	537,5	222,312	204,239	0	134,375	296,416572	137,943006	102,54	146,90	3P10 - 80	2P10 - 90
STORY2	B27	300	600	537,5	275,316	257,863	0	134,375	367,087908	209,44221	82,80	96,75	3P10 - 80	2P10 - 90
STORY1	B27	300	600	537,5	276,932	258,815	0	134,375	369,242908	210,711823	82,32	96,17	3P10 - 80	2P10 - 90
STORY4	B28	300	600	537,5	235,876	207,524	0	134,375	314,501284	142,323718	96,64	142,37	3P10 - 80	2P10 - 90
STORY3	B28	300	600	537,5	235,878	207,525	0	134,375	314,503438	142,325242	96,64	142,37	3P10 - 80	2P10 - 90
STORY2	B28	300	600	537,5	277,768	249,440	0	134,375	370,356779	198,211392	82,07	102,23	3P10 - 80	2P10 - 90
STORY1	B28	300	600	537,5	277,498	249,249	0	134,375	369,996934	197,956916	82,15	102,36	3P10 - 80	2P10 - 90
STORY4	B29	300	600	537,5	223,129	204,720	0	134,375	297,505572	138,584587	102,17	146,22	3P10 - 80	2P10 - 90
STORY3	B29	300	600	537,5	222,045	204,081	0	134,375	296,059572	137,73268	102,66	147,12	3P10 - 80	2P10 - 90
STORY2	B29	300	600	537,5	275,149	257,764	0	134,375	366,864908	209,31083	82,85	96,81	3P10 - 80	2P10 - 90
STORY1	B29	300	600	537,5	278,704	260,568	0	134,375	371,605062	213,048915	81,79	95,11	3P10 - 80	2P10 - 90
STORY5	B417	300	600	537,5	207,215	196,011	0	134,375	276,286014	126,973231	110,01	159,59	3P10 - 80	2P10 - 90
STORY5	B418	300	600	537,5	261,967	250,707	0	134,375	349,289062	199,901504	87,02	101,37	3P10 - 80	2P10 - 90
STORY5	B466	300	600	537,5	224,624	212,246	0	134,375	299,498564	148,619111	101,49	136,34	3P10 - 80	2P10 - 90

Tabel Penulangan Geser Balok Gedung A arah X Elev 5

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.
STORY4	B11	400	700	637,5	216,181	194,271	0	212,5	288,24184	46,527786	83,38	516,53	2P10 - 60	2P10 - 200
STORY3	B11	400	700	637,5	217,121	194,976	0	212,5	289,49443	47,4685067	83,02	506,30	2P10 - 60	2P10 - 200
STORY2	B11	400	700	637,5	256,912	234,464	0	212,5	342,549043	100,118102	70,16	240,05	2P10 - 60	2P10 - 200
STORY1	B11	400	700	637,5	259,576	236,465	0	212,5	346,101543	102,786102	69,44	233,82	2P10 - 60	2P10 - 200
STORY4	B12	400	700	637,5	217,085	194,950	0	212,5	289,446975	47,432867	83,03	506,68	2P10 - 60	2P10 - 200
STORY3	B12	400	700	637,5	217,132	194,984	0	212,5	289,508777	47,4792815	83,01	506,18	2P10 - 60	2P10 - 200
STORY2	B12	400	700	637,5	255,727	233,573	0	212,5	340,968683	98,9312191	70,49	242,93	2P10 - 60	2P10 - 200
STORY1	B12	400	700	637,5	256,143	233,886	0	212,5	341,523796	99,34812	70,37	241,91	2P10 - 60	2P10 - 200
STORY4	B13	400	700	637,5	217,094	194,956	0	212,5	289,459115	47,4419842	83,03	506,58	2P10 - 60	2P10 - 200
STORY3	B13	400	700	637,5	217,021	194,901	0	212,5	289,360894	47,3682184	83,06	507,37	2P10 - 60	2P10 - 200
STORY2	B13	400	700	637,5	255,599	233,478	0	212,5	340,798728	98,8035795	70,52	243,24	2P10 - 60	2P10 - 200
STORY1	B13	400	700	637,5	256,190	233,922	0	212,5	341,586701	99,3953633	70,36	241,79	2P10 - 60	2P10 - 200
STORY4	B14	400	700	637,5	221,801	198,492	0	212,5	295,735308	52,1555337	81,27	460,80	2P10 - 60	2P10 - 200
STORY3	B14	400	700	637,5	260,068	236,834	0	212,5	346,757084	103,278426	69,31	232,70	2P10 - 60	2P10 - 200
STORY2	B14	400	700	637,5	259,962	236,754	0	212,5	346,615823	103,172336	69,34	232,94	2P10 - 60	2P10 - 200
STORY1	B14	400	700	637,5	260,450	237,121	0	212,5	347,266949	103,661345	69,21	231,84	2P10 - 60	2P10 - 200
STORY6	B15	300	600	537,5	187,156	177,434	0	134,375	249,540727	102,204109	81,20	198,26	2P10 - 60	2P10 - 200
STORY4	B15	400	700	637,5	213,324	192,668	0	212,5	284,431959	44,390459	84,50	541,40	2P10 - 60	2P10 - 200
STORY3	B15	400	700	637,5	211,210	192,071	0	212,5	281,613626	43,5946943	85,34	551,29	2P10 - 60	2P10 - 200
STORY2	B15	400	700	637,5	250,613	233,465	0	212,5	334,150929	98,786694	71,92	243,28	2P10 - 60	2P10 - 200
STORY1	B15	400	700	637,5	254,891	234,673	0	212,5	339,855096	100,397282	70,72	239,38	2P10 - 60	2P10 - 200
STORY5	B403	400	700	637,5	139,943	127,323	0	212,5	186,590704	0	128,80	0,00	2P10 - 60	2P10 - 200
STORY5	B404	400	700	637,5	138,056	125,906	0	212,5	184,074488	0	130,56	0,00	2P10 - 60	2P10 - 200
STORY5	B405	400	700	637,5	133,518	122,498	0	212,5	178,02343	0	135,00	0,00	2P10 - 60	2P10 - 200
STORY5	B406	400	700	637,5	136,779	124,947	0	212,5	182,371628	0	131,78	0,00	2P10 - 60	2P10 - 200
STORY5	B407	400	700	637,5	215,450	193,268	0	212,5	287,266959	45,1909296	83,66	531,81	2P10 - 60	2P10 - 200

Tabel 5.10. Gaya Geser Rencana Balok GEDUNG B Arah Y Elev K

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
STORY6	B499	4900	250	400	337,5	4300	28,52	5,38	2,12	188,91	279,00	108,817	19,802	128,619	89,015	125,510	121,250
STORY5	B501	4000	250	400	337,5	3400	29,14	11,38	2,36	180,23	279,00	135,070	23,174	158,244	111,896	153,643	147,339
STORY4	B501	4000	250	400	337,5	3400	26,86	11,32	3,51	249,95	344,94	174,968	21,776	196,744	153,192	192,421	186,497
STORY3	B501	4000	250	400	337,5	3400	27,14	11,31	4,68	249,95	344,94	174,968	21,939	196,907	153,029	192,552	186,583
STORY2	B501	4000	250	400	337,5	3400	27,74	11,42	5,32	180,23	279,00	135,070	22,354	157,424	112,716	152,986	146,905
STORY1	B501	4000	250	400	337,5	3400	28,81	11,58	4,97	180,23	279,00	135,070	23,076	158,146	111,994	153,565	147,287
STORY5	B517	8000	400	700	637,5	7400	79,57	11,97	9,97	508,98	724,98	166,751	53,727	220,478	113,024	211,221	200,149
STORY4	B517	8000	400	700	637,5	7400	158,43	30,44	17,86	508,98	724,98	166,751	110,278	277,029	56,473	258,028	235,302
STORY3	B517	8000	400	700	637,5	7400	158,80	30,42	23,99	363,67	584,86	128,180	110,490	238,670	17,690	219,633	196,863
STORY2	B517	8000	400	700	637,5	7400	159,89	30,65	27,99	363,67	584,86	128,180	111,259	239,439	16,921	220,269	197,341
STORY1	B517	8000	400	700	637,5	7400	162,47	31,14	26,20	508,98	724,98	166,751	113,052	279,803	53,699	260,324	237,027
STORY5	B518	8000	400	700	637,5	7400	81,86	12,81	9,06	508,979	724,98	166,751	55,521	222,272	111,230	212,706	201,264
STORY4	B518	8000	400	700	637,5	7400	161,56	31,59	17,88	363,672	584,86	128,180	112,731	240,911	15,449	221,488	198,256
STORY3	B518	8000	400	700	637,5	7400	162,04	31,63	23,98	508,979	724,98	166,751	113,039	279,790	53,712	260,314	237,018
STORY2	B518	8000	400	700	637,5	7400	162,89	31,81	28,13	508,979	724,98	166,751	113,639	280,390	53,112	260,810	237,391
STORY1	B518	8000	400	700	637,5	7400	167,41	32,66	26,46	508,979	724,98	166,751	116,776	283,527	49,975	263,407	239,341
STORY5	B531	4000	250	400	337,5	3400	37,07	11,83	1,27	177,80	155,00	97,881	28,157	126,038	69,724	120,448	112,788
STORY4	B531	4000	250	400	337,5	3400	29,67	11,80	2,07	177,80	155,00	97,881	23,702	121,583	74,179	116,878	110,429
STORY3	B531	4000	250	400	337,5	3400	30,95	12,09	2,23	177,80	155,00	97,881	24,615	122,496	73,266	117,609	110,913
STORY2	B531	4000	250	400	337,5	3400	29,45	11,70	3,35	179,24	223,30	118,394	23,520	141,914	94,874	137,244	130,845
STORY1	B531	4000	250	400	337,5	3400	31,05	12,29	2,51	179,24	223,30	118,394	24,775	143,169	93,619	138,250	131,510
STORY5	B532	4900	250	400	337,5	4300	31,77	11,50	0,10	185,79	155,00	79,252	24,812	104,064	54,440	100,169	94,832
STORY4	B532	4900	250	400	337,5	4300	28,10	11,55	0,15	185,79	148,00	77,625	22,635	100,260	54,990	96,707	91,838
STORY3	B532	4900	250	400	337,5	4300	27,89	11,51	0,19	185,79	148,00	77,625	22,489	100,114	55,136	96,584	91,746
STORY2	B532	4900	250	400	337,5	4300	27,98	11,53	0,18	185,79	148,00	77,625	22,553	100,178	55,072	96,638	91,787
STORY1	B532	4900	250	400	337,5	4300	27,68	11,45	0,18	185,79	148,00	77,625	22,333	99,958	55,292	96,453	91,648

Tabel Gaya Geser Rencana Balok GEDUNG B Arah X Elev 8

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
STORY6	B495	4900	300	600	537,5	4300	27,17	4,49	7,81	287,12	479,66	178,321	18,547	196,868	159,774	192,231	186,516
STORY5	B495	4900	300	600	537,5	4300	88,24	13,59	19,01	287,12	479,66	178,321	59,739	238,060	118,582	223,125	204,717
STORY4	B495	4900	300	600	537,5	4300	73,14	18,40	31,25	406,41	594,79	232,836	53,084	285,920	179,752	272,649	256,292
STORY3	B495	4900	300	600	537,5	4300	72,55	18,41	41,83	406,41	594,79	232,836	52,735	285,571	180,101	272,387	256,137
STORY2	B495	4900	300	600	537,5	4300	71,75	18,72	48,23	287,12	479,66	178,321	52,410	230,731	125,911	217,629	201,479
STORY1	B495	4900	300	600	537,5	4300	76,96	19,72	44,60	287,12	479,66	178,321	56,036	234,357	122,285	220,348	203,081
STORY6	B496	4000	300	600	537,5	3400	31,03	3,17	18,75	397,27	594,79	291,783	20,203	311,986	271,580	305,598	297,725
STORY5	B509	4900	300	600	537,5	4300	47,12	8,92	15,92	406,41	594,79	232,836	32,732	265,568	200,104	257,385	247,299
STORY4	B509	4900	300	600	537,5	4300	81,63	20,44	31,73	287,12	479,66	178,321	59,198	237,519	119,123	222,720	204,478
STORY3	B509	4900	300	600	537,5	4300	77,32	19,64	41,67	287,12	479,66	178,321	56,212	234,533	122,109	220,480	203,159
STORY2	B509	4900	300	600	537,5	4300	74,74	19,19	47,99	406,41	594,79	232,836	54,439	287,275	178,397	273,665	256,890
STORY1	B509	4900	300	600	537,5	4300	75,50	18,55	44,37	406,405	602,21	234,562	54,575	289,137	179,987	275,493	258,676
STORY5	B534	2200	300	600	537,5	1600	133,04	16,85	37,94	260,1	486,65	466,717	88,249	554,966	378,468	495,673	422,592
STORY4	B534	2200	300	600	537,5	1600	141,69	27,12	21,18	377,673	602,21	612,427	98,574	711,001	513,853	644,772	563,140
STORY3	B534	2200	300	600	537,5	1600	139,62	26,73	26,74	377,673	602,21	612,427	97,137	709,564	515,290	644,300	563,859
STORY2	B534	2200	300	600	537,5	1600	139,18	26,58	30,24	377,673	602,21	612,427	96,798	709,225	515,629	644,189	564,028
STORY1	B534	2200	300	600	537,5	1600	139,10	26,37	27,04	259,50	253,21	320,445	96,645	417,090	223,800	352,157	272,123
STORY5	B541	2000	300	600	537,5	1400	104,26	15,23	20,06	257,49	253,21	364,786	70,171	434,957	294,615	381,076	314,664
STORY4	B541	2000	300	600	537,5	1400	134,57	27,17	22,72	257,49	253,21	364,786	94,327	459,113	270,459	386,683	297,410
STORY3	B541	2000	300	600	537,5	1400	136,40	27,41	28,96	257,74	370,62	448,831	95,545	544,376	353,286	471,011	380,585
STORY2	B541	2000	300	600	537,5	1400	137,69	27,72	32,66	257,74	370,62	448,831	96,474	545,305	352,357	471,227	379,921
STORY1	B541	2000	300	600	537,5	1400	138,12	27,79	29,23	257,49	253,21	364,786	96,767	461,553	268,019	387,250	295,667
STORY5	B542	2000	300	600	537,5	1400	26,11	4,28	18,19	257,49	248,67	361,544	17,806	379,350	343,738	365,678	348,826
STORY4	B542	2000	300	600	537,5	1400	25,05	2,86	19,25	257,49	248,67	361,544	16,460	378,004	345,084	365,365	349,787
STORY3	B542	2000	300	600	537,5	1400	26,81	3,12	24,53	257,49	248,67	361,544	17,646	379,190	343,898	365,641	348,940
STORY2	B542	2000	300	600	537,5	1400	27,61	3,33	27,79	257,49	248,67	361,544	18,231	379,775	343,313	365,777	348,522
STORY1	B542	2000	300	600	537,5	1400	28,01	3,46	24,84	257,49	248,67	361,544	18,536	380,080	343,008	365,847	348,304

Tabel Gaya Geser Rencana Balok edung A Arah Y Elev E

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
STORY4	B27	4900	300	600	537,5	4300	82,58	20,78	24,82	287,12	479,66	178,321	59,938	238,259	118,383	223,275	204,805
STORY3	B27	4900	300	600	537,5	4300	80,75	20,41	40,57	287,12	479,66	178,321	58,655	236,976	119,666	222,312	204,239
STORY2	B27	4900	300	600	537,5	4300	77,90	19,80	51,11	406,41	594,79	232,836	56,640	289,476	176,196	275,316	257,863
STORY1	B27	4900	300	600	537,5	4300	81,20	20,15	49,08	406,41	594,79	232,836	58,795	291,631	174,041	276,932	258,815
STORY4	B28	6200	300	600	537,5	5600	173,22	31,79	17,90	299,03	479,66	139,051	119,827	258,878	19,224	235,876	207,524
STORY3	B28	6200	300	600	537,5	5600	173,24	31,77	27,00	299,03	479,66	139,051	119,829	258,880	19,222	235,878	207,525
STORY2	B28	6200	300	600	537,5	5600	173,10	31,73	32,93	418,95	594,79	181,026	119,725	300,751	61,301	277,768	249,440
STORY1	B28	6200	300	600	537,5	5600	172,61	31,65	30,46	418,95	594,79	181,026	119,391	300,417	61,635	277,498	249,249
STORY4	B29	4900	300	600	537,5	4300	82,34	20,68	24,82	287,12	479,66	178,321	59,744	238,065	118,577	223,129	204,720
STORY3	B29	4900	300	600	537,5	4300	80,23	20,32	40,56	287,12	479,66	178,321	58,298	236,619	120,023	222,045	204,081
STORY2	B29	4900	300	600	537,5	4300	77,57	19,75	51,10	406,41	594,79	232,836	56,417	289,253	176,419	275,149	257,764
STORY1	B29	4900	300	600	537,5	4300	81,31	20,14	49,07	406,405	602,21	234,562	58,856	293,418	175,706	278,704	260,568
STORY5	B417	4900	300	600	537,5	4300	52,73	9,44	10,85	287,121	486,65	179,946	36,358	216,304	143,588	207,215	196,011
STORY5	B418	4900	300	600	537,5	4300	53,05	9,42	10,78	406,405	602,21	234,562	36,540	271,102	198,022	261,967	250,707
STORY5	B466	6200	300	600	537,5	5600	76,56	12,76	8,83	418,953	602,21	182,351	52,316	234,667	130,035	224,624	212,246

Tabel Gaya Geser Rencana Balok GEDUNG A Arah X Elev 5

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 terp pada s.p
			b(mm)	h(mm)												
STORY4	B11	8000	400	700	637,5	7400	155,05	26,58	15,14	363,67	584,86	128,180	106,320	234,500	21,860	216,181
STORY3	B11	8000	400	700	637,5	7400	156,70	26,87	23,49	363,67	584,86	128,180	107,455	235,635	20,725	217,121
STORY2	B11	8000	400	700	637,5	7400	158,79	27,31	29,19	508,98	724,98	166,751	108,929	275,680	57,822	256,912
STORY1	B11	8000	400	700	637,5	7400	163,33	28,30	29,05	508,98	724,98	166,751	112,148	278,899	54,603	259,576
STORY4	B12	8000	400	700	637,5	7400	153,97	30,06	14,24	363,67	584,86	128,180	107,412	235,592	20,768	217,085
STORY3	B12	8000	400	700	637,5	7400	154,03	30,10	21,55	363,67	584,86	128,180	107,468	235,648	20,712	217,132
STORY2	B12	8000	400	700	637,5	7400	154,07	30,11	26,61	508,98	724,98	166,751	107,497	274,248	59,254	255,727
STORY1	B12	8000	400	700	637,5	7400	154,80	30,24	25,80	508,98	724,98	166,751	108,000	274,751	58,751	256,143
STORY4	B13	8000	400	700	637,5	7400	153,93	30,13	14,22	363,67	584,86	128,180	107,423	235,603	20,757	217,094
STORY3	B13	8000	400	700	637,5	7400	153,79	30,12	21,58	363,67	584,86	128,180	107,334	235,514	20,846	217,021
STORY2	B13	8000	400	700	637,5	7400	153,83	30,09	26,71	508,98	724,98	166,751	107,343	274,094	59,408	255,599
STORY1	B13	8000	400	700	637,5	7400	154,97	30,15	26,09	508,979	724,98	166,751	108,057	274,808	58,694	256,190
STORY4	B14	8000	400	700	637,5	7400	162,10	31,70	15,1	363,672	584,86	128,180	113,110	241,290	15,070	221,801
STORY3	B14	8000	400	700	637,5	7400	161,52	31,66	21,91	508,979	724,98	166,751	112,742	279,493	54,009	260,068
STORY2	B14	8000	400	700	637,5	7400	161,29	31,68	26,37	508,979	724,98	166,751	112,614	279,365	54,137	259,962
STORY1	B14	8000	400	700	637,5	7400	162,09	31,90	24,97	508,979	724,98	166,751	113,204	279,955	53,547	260,450
STORY6	B15	4000	300	600	537,5	3400	36,30	6,33	9,40	325,12	253,21	170,098	24,945	195,043	145,153	187,156
STORY4	B15	4000	400	700	637,5	3400	68,68	9,69	32,94	325,12	302,32	184,541	46,053	230,594	138,488	213,324
STORY3	B15	4000	400	700	637,5	3400	63,81	8,77	62,13	325,12	302,32	184,541	42,671	227,212	141,870	211,210
STORY2	B15	4000	400	700	637,5	3400	57,57	7,38	82,99	326,56	444,28	226,718	38,232	264,950	188,486	250,613
STORY1	B15	4000	400	700	637,5	3400	67,07	9,67	85,04	326,56	444,28	226,718	45,077	271,795	181,641	254,891
STORY5	B403	8000	400	700	637,5	7400	90,56	13,80	6,99	358,19	302,32	89,258	61,236	150,494	28,022	139,943
STORY5	B404	8000	400	700	637,5	7400	87,51	12,90	6,71	358,19	302,32	89,258	58,956	148,214	30,302	138,056
STORY5	B405	8000	400	700	637,5	7400	79,08	12,05	6,04	358,19	302,32	89,258	53,473	142,731	35,785	133,518
STORY5	B406	8000	400	700	637,5	7400	85,18	12,61	8,80	358,19	302,32	89,258	57,413	146,671	31,845	136,779
STORY5	B407	4000	400	700	637,5	3400	74,20	9,87	15,45	325,12	302,32	184,541	49,455	233,996	135,086	215,450

Tabel Momen Kapasitas Negatif Balok Gedung B Arah Y Elev K

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)
STORY6	B499	250	250	982,14	1964,29	337,5	62,5	4515,625	-196428,57	36830357,14	114,6437	97,4471	272,8996	223,2033	279,0042
STORY5	B501	250	250	982,14	1964,29	337,5	62,5	4515,625	-196428,57	36830357,14	114,6437	97,4471	272,8996	223,2033	279,0042
STORY4	B501	250	250	1473,21	2455,36	337,5	62,5	4515,625	-98214,286	55245535,71	122,0171	103,7145	292,6659	275,9533	344,9416
STORY3	B501	250	250	1473,21	2455,36	337,5	62,5	4515,625	-98214,286	55245535,71	122,0171	103,7145	292,6659	275,9533	344,9416
STORY2	B501	250	250	982,14	1964,29	337,5	62,5	4515,625	-196428,57	36830357,14	114,6437	97,4471	272,8996	223,2033	279,0042
STORY1	B501	250	250	982,14	1964,29	337,5	62,5	4515,625	-196428,57	36830357,14	114,6437	97,4471	272,8996	223,2033	279,0042
STORY5	B517	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY4	B517	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY3	B517	400	400	982,14	1964,29	637,5	62,5	7225	-196428,57	36830357,14	86,2739	73,3328	165,3378	467,8885	584,8607
STORY2	B517	400	400	982,14	1964,29	637,5	62,5	7225	-196428,57	36830357,14	86,2739	73,3328	165,3378	467,8885	584,8607
STORY1	B517	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY5	B518	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY4	B518	400	400	982,14	1964,29	637,5	62,5	7225	-196428,57	36830357,14	86,2739	73,3328	165,3378	467,8885	584,8607
STORY3	B518	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY2	B518	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY1	B518	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY5	B531	250	400	982,14	982,14	337,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	123,9968	154,9959
STORY4	B531	250	400	982,14	982,14	337,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	123,9968	154,9959
STORY3	B531	250	400	982,14	982,14	337,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	123,9968	154,9959
STORY2	B531	250	400	982,14	1473,21	337,5	62,5	7225	0	36830357,14	71,3977	60,6880	74,7728	178,6412	223,3015
STORY1	B531	250	400	982,14	1473,21	337,5	62,5	7225	0	36830357,14	71,3977	60,6880	74,7728	178,6412	223,3015
STORY5	B532	250	400	982,14	982,14	337,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	123,9968	154,9959
STORY4	B532	250	250	982,14	982,14	337,5	62,5	4515,625	196428,57	36830357,14	71,1439	60,4723	72,8996	118,4008	148,0010
STORY3	B532	250	250	982,14	982,14	337,5	62,5	4515,625	196428,57	36830357,14	71,1439	60,4723	72,8996	118,4008	148,0010
STORY2	B532	250	250	982,14	982,14	337,5	62,5	4515,625	196428,57	36830357,14	71,1439	60,4723	72,8996	118,4008	148,0010
STORY1	B532	250	250	982,14	982,14	337,5	62,5	4515,625	196428,57	36830357,14	71,1439	60,4723	72,8996	118,4008	148,0010

Tabel Momen Kapasitas Positif Balok Gedung B Arah Y Elev K

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)
STORY6	B499	250	1225	2529,49	982,14	337,5	62,5	22126,563	1124834,3	94855714,29	44,8174538	38,094836	-236,72759	151,125736	188,907171
STORY5	B501	250	1000	2341,09	982,14	337,5	62,5	18062,5	1011794,3	87790714,29	47,1240161	40,055414	-195,77258	144,187176	180,23397
STORY4	B501	250	1000	2832,16	1473,21	337,5	62,5	18062,5	1110008,6	106205892,9	51,880941	44,0988	-122,80879	199,959808	249,94976
STORY3	B501	250	1000	2832,16	1473,21	337,5	62,5	18062,5	1110008,6	106205892,9	51,880941	44,0988	-122,80879	199,959808	249,94976
STORY2	B501	250	1000	2341,09	982,14	337,5	62,5	18062,5	1011794,3	87790714,29	47,1240161	40,055414	-195,77258	144,187176	180,23397
STORY1	B501	250	1000	2341,09	982,14	337,5	62,5	18062,5	1011794,3	87790714,29	47,1240161	40,055414	-195,77258	144,187176	180,23397
STORY5	B517	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY4	B517	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY3	B517	400	2000	2906,29	982,14	637,5	62,5	36125	1350914,3	108985714,3	39,323879	33,425297	-353,61905	290,93723	363,671537
STORY2	B517	400	2000	2906,29	982,14	637,5	62,5	36125	1350914,3	108985714,3	39,323879	33,425297	-353,61905	290,93723	363,671537
STORY1	B517	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY5	B518	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY4	B518	400	2000	2906,29	982,14	637,5	62,5	36125	1350914,3	108985714,3	39,323879	33,425297	-353,61905	290,93723	363,671537
STORY3	B518	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY2	B518	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY1	B518	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY5	B531	250	1000	1358,94	982,14	337,5	62,5	18062,5	422508,57	50960357,14	42,6929084	36,288972	-278,36602	142,240054	177,800068
STORY4	B531	250	1000	1358,94	982,14	337,5	62,5	18062,5	422508,57	50960357,14	42,6929084	36,288972	-278,36602	142,240054	177,800068
STORY3	B531	250	1000	1850,01	982,14	337,5	62,5	18062,5	717151,43	69375535,71	45,2246256	38,440932	-229,19426	143,389459	179,236823
STORY2	B531	250	1000	1850,01	982,14	337,5	62,5	18062,5	717151,43	69375535,71	45,2246256	38,440932	-229,19426	143,389459	179,236823
STORY1	B531	250	1000	1547,34	982,14	337,5	62,5	22126,563	535548,57	58025357,14	40,5182741	34,440533	-325,50832	148,630359	185,787949
STORY5	B532	250	1225	1547,34	982,14	337,5	62,5	22126,563	535548,57	58025357,14	40,5182741	34,440533	-325,50832	148,630359	185,787949
STORY4	B532	250	1225	1547,34	982,14	337,5	62,5	22126,563	535548,57	58025357,14	40,5182741	34,440533	-325,50832	148,630359	185,787949
STORY3	B532	250	1225	1547,34	982,14	337,5	62,5	22126,563	535548,57	58025357,14	40,5182741	34,440533	-325,50832	148,630359	185,787949
STORY2	B532	250	1225	1547,34	982,14	337,5	62,5	22126,563	535548,57	58025357,14	40,5182741	34,440533	-325,50832	148,630359	185,787949
STORY1	B532	250	1225	1547,34	982,14	337,5	62,5	22126,563	535548,57	58025357,14	40,5182741	34,440533	-325,50832	148,630359	185,787949

Tabel Momen Kapasitas Negatif Balok Gedung B Arah X Elev 8

Lantai	No. Elemen	b (mm)	be (mm)	As' (mm2)	As (mm2)	d (mm)	d' (mm)	A	B	C1	c (mm)	a (mm)	fs' (MPa)	Mn- (kNm)	Mpr2 (kNm)
STORY6	B495	300	300	982,14	1964,29	537,5	62,5	5418,75	-196428,57	36830357,14	102,5367	87,1562	234,2772	383,7277	479,6596
STORY5	B495	300	300	982,14	1964,29	537,5	62,5	5418,75	-196428,57	36830357,14	102,5367	87,1562	234,2772	383,7277	479,6596
STORY4	B495	300	300	1473,21	2455,36	537,5	62,5	5418,75	-98214,286	55245535,71	110,4399	93,8739	260,4487	475,8315	594,7894
STORY3	B495	300	300	1473,21	2455,36	537,5	62,5	5418,75	-98214,286	55245535,71	110,4399	93,8739	260,4487	475,8315	594,7894
STORY2	B495	300	300	982,14	1964,29	537,5	62,5	5418,75	-196428,57	36830357,14	102,5367	87,1562	234,2772	383,7277	479,6596
STORY1	B495	300	300	982,14	1964,29	537,5	62,5	5418,75	-196428,57	36830357,14	102,5367	87,1562	234,2772	383,7277	479,6596
STORY6	B496	300	300	1473,21	2455,36	537,5	62,5	5418,75	-98214,286	55245535,71	110,4399	93,8739	260,4487	475,8315	594,7894
STORY5	B509	300	300	1473,21	2455,36	537,5	62,5	5418,75	-98214,286	55245535,71	110,4399	93,8739	260,4487	475,8315	594,7894
STORY4	B509	300	300	982,14	1964,29	537,5	62,5	5418,75	-196428,57	36830357,14	102,5367	87,1562	234,2772	383,7277	479,6596
STORY3	B509	300	300	982,14	1964,29	537,5	62,5	5418,75	-196428,57	36830357,14	102,5367	87,1562	234,2772	383,7277	479,6596
STORY2	B509	300	300	1473,21	2455,36	537,5	62,5	5418,75	-98214,286	55245535,71	110,4399	93,8739	260,4487	475,8315	594,7894
STORY1	B509	300	400	1473,21	2455,36	537,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	481,7685	602,2106
STORY5	B534	300	400	982,14	1964,29	537,5	62,5	7225	-196428,57	36830357,14	86,2739	73,3328	165,3378	389,3171	486,6464
STORY4	B534	300	400	1473,21	2455,36	537,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	481,7685	602,2106
STORY3	B534	300	400	1473,21	2455,36	537,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	481,7685	602,2106
STORY2	B534	300	400	1473,21	2455,36	537,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	481,7685	602,2106
STORY1	B534	300	400	982,14	982,14	537,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	202,5682	253,2102
STORY5	B541	300	400	982,14	982,14	537,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	202,5682	253,2102
STORY4	B541	300	400	982,14	982,14	537,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	202,5682	253,2102
STORY3	B541	300	400	982,14	1473,21	537,5	62,5	7225	0	36830357,14	71,3977	60,6880	74,7728	296,4983	370,6229
STORY2	B541	300	400	982,14	1473,21	537,5	62,5	7225	0	36830357,14	71,3977	60,6880	74,7728	296,4983	370,6229
STORY1	B541	300	400	982,14	982,14	537,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	202,5682	253,2102
STORY5	B542	300	300	982,14	982,14	537,5	62,5	5418,75	196428,57	36830357,14	66,2869	56,3438	34,2772	198,9375	248,6719
STORY4	B542	300	300	982,14	982,14	537,5	62,5	5418,75	196428,57	36830357,14	66,2869	56,3438	34,2772	198,9375	248,6719
STORY3	B542	300	300	982,14	982,14	537,5	62,5	5418,75	196428,57	36830357,14	66,2869	56,3438	34,2772	198,9375	248,6719
STORY2	B542	300	300	982,14	982,14	537,5	62,5	5418,75	196428,57	36830357,14	66,2869	56,3438	34,2772	198,9375	248,6719
STORY1	B542	300	300	982,14	982,14	537,5	62,5	5418,75	196428,57	36830357,14	66,2869	56,3438	34,2772	198,9375	248,6719

Tabel Momen Kapasitas Positif Balok Gedung B Arah X Elev 8

Lantai	No. Elemen	b (mm)	be (mm)	As' (mm2)	As (mm2)	d (mm)	d' (mm)	A	B	C1	c (mm)	a (mm)	fs' (MPa)	Mn+ (kNm)	Mpr1 (kNm)
STORY6	B495	300	1225	2529,49	982,14	537,5	62,5	22126,563	1124834,3	94855714,29	44,8174538	38,094836	-236,72759	229,697165	287,121456
STORY5	B495	300	1225	2529,49	982,14	537,5	62,5	22126,563	1124834,3	94855714,29	44,8174538	38,094836	-236,72759	229,697165	287,121456
STORY4	B495	300	1225	3020,56	1473,21	537,5	62,5	22126,563	1223048,6	113270892,9	49,0635559	41,704023	-164,31476	325,124097	406,405122
STORY3	B495	300	1225	3020,56	1473,21	537,5	62,5	22126,563	1223048,6	113270892,9	49,0635559	41,704023	-164,31476	325,124097	406,405122
STORY2	B495	300	1225	2529,49	982,14	537,5	62,5	22126,563	1124834,3	94855714,29	44,8174538	38,094836	-236,72759	229,697165	287,121456
STORY1	B495	300	1225	2529,49	982,14	537,5	62,5	22126,563	1124834,3	94855714,29	44,8174538	38,094836	-236,72759	229,697165	287,121456
STORY6	B496	300	1000	2832,16	1473,21	537,5	62,5	18062,5	1110008,6	106205892,9	51,880941	44,0988	-122,80879	317,816951	397,271189
STORY5	B509	300	1225	3020,56	1473,21	537,5	62,5	22126,563	1223048,6	113270892,9	49,0635559	41,704023	-164,31476	325,124097	406,405122
STORY4	B509	300	1225	2529,49	982,14	537,5	62,5	22126,563	1124834,3	94855714,29	44,8174538	38,094836	-236,72759	229,697165	287,121456
STORY3	B509	300	1225	2529,49	982,14	537,5	62,5	22126,563	1124834,3	94855714,29	44,8174538	38,094836	-236,72759	229,697165	287,121456
STORY2	B509	300	1225	3020,56	1473,21	537,5	62,5	22126,563	1223048,6	113270892,9	49,0635559	41,704023	-164,31476	325,124097	406,405122
STORY1	B509	300	1225	3020,56	1473,21	537,5	62,5	22126,563	1223048,6	113270892,9	49,0635559	41,704023	-164,31476	325,124097	406,405122
STORY5	B534	300	550	2152,69	982,14	537,5	62,5	9934,375	898754,29	80725714,29	55,6220827	47,27877	-74,192662	208,080377	260,100471
STORY4	B534	300	550	2643,76	1473,21	537,5	62,5	9934,375	996968,57	99140892,86	61,6139786	52,371882	-8,6281203	302,138418	377,673022
STORY3	B534	300	550	2643,76	1473,21	537,5	62,5	9934,375	996968,57	99140892,86	61,6139786	52,371882	-8,6281203	302,138418	377,673022
STORY2	B534	300	550	2643,76	1473,21	537,5	62,5	9934,375	996968,57	99140892,86	61,6139786	52,371882	-8,6281203	302,138418	377,673022
STORY1	B534	300	550	1170,54	982,14	537,5	62,5	9934,375	309468,57	43895357,14	52,6968471	44,79232	-111,61753	207,601914	259,502392
STORY5	B541	300	500	1170,54	982,14	537,5	62,5	9031,25	309468,57	43895357,14	54,6576854	46,459033	-86,088329	205,992123	257,490153
STORY4	B541	300	500	1170,54	982,14	537,5	62,5	9031,25	309468,57	43895357,14	54,6576854	46,459033	-86,088329	205,992123	257,490153
STORY3	B541	300	500	1661,61	982,14	537,5	62,5	9031,25	604111,43	62310535,71	56,0979252	47,683236	-68,47392	206,192808	257,741011
STORY2	B541	300	500	1661,61	982,14	537,5	62,5	9031,25	604111,43	62310535,71	56,0979252	47,683236	-68,47392	206,192808	257,741011
STORY1	B541	300	500	1170,54	982,14	537,5	62,5	9031,25	309468,57	43895357,14	54,6576854	46,459033	-86,088329	205,992123	257,490153
STORY5	B542	300	500	1170,54	982,14	537,5	62,5	9031,25	309468,57	43895357,14	54,6576854	46,459033	-86,088329	205,992123	257,490153
STORY4	B542	300	500	1170,54	982,14	537,5	62,5	9031,25	309468,57	43895357,14	54,6576854	46,459033	-86,088329	205,992123	257,490153
STORY3	B542	300	500	1170,54	982,14	537,5	62,5	9031,25	309468,57	43895357,14	54,6576854	46,459033	-86,088329	205,992123	257,490153
STORY2	B542	300	500	1170,54	982,14	537,5	62,5	9031,25	309468,57	43895357,14	54,6576854	46,459033	-86,088329	205,992123	257,490153
STORY1	B542	300	500	1170,54	982,14	537,5	62,5	9031,25	309468,57	43895357,14	54,6576854	46,459033	-86,088329	205,992123	257,490153

Tabel Momen Kapasitas Negatif Balok GEDUNG A Arah Y Elev E

Lantai	No. Elemen	b (mm)	be (mm)	As' (mm2)	As (mm2)	d (mm)	d' (mm)	A	B	C1	c (mm)	a (mm)	fs' (MPa)	Mn- (kNm)	Mpr2 (kNm)
STORY4	B27	300	300	982,14	1964,29	537,5	62,5	5418,75	-196428,57	36830357,14	102,5367	87,1562	234,2772	383,7277	479,6596
STORY3	B27	300	300	982,14	1964,29	537,5	62,5	5418,75	-196428,57	36830357,14	102,5367	87,1562	234,2772	383,7277	479,6596
STORY2	B27	300	300	1473,21	2455,36	537,5	62,5	5418,75	-98214,286	55245535,71	110,4399	93,8739	260,4487	475,8315	594,7894
STORY1	B27	300	300	1473,21	2455,36	537,5	62,5	5418,75	-98214,286	55245535,71	110,4399	93,8739	260,4487	475,8315	594,7894
STORY4	B28	300	300	982,14	1964,29	537,5	62,5	5418,75	-196428,57	36830357,14	102,5367	87,1562	234,2772	383,7277	479,6596
STORY3	B28	300	300	982,14	1964,29	537,5	62,5	5418,75	-196428,57	36830357,14	102,5367	87,1562	234,2772	383,7277	479,6596
STORY2	B28	300	300	1473,21	2455,36	537,5	62,5	5418,75	-98214,286	55245535,71	110,4399	93,8739	260,4487	475,8315	594,7894
STORY1	B28	300	300	1473,21	2455,36	537,5	62,5	5418,75	-98214,286	55245535,71	110,4399	93,8739	260,4487	475,8315	594,7894
STORY4	B29	300	300	982,14	1964,29	537,5	62,5	5418,75	-196428,57	36830357,14	102,5367	87,1562	234,2772	383,7277	479,6596
STORY3	B29	300	300	982,14	1964,29	537,5	62,5	5418,75	-196428,57	36830357,14	102,5367	87,1562	234,2772	383,7277	479,6596
STORY2	B29	300	300	1473,21	2455,36	537,5	62,5	5418,75	-98214,286	55245535,71	110,4399	93,8739	260,4487	475,8315	594,7894
STORY1	B29	300	400	1473,21	2455,36	537,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	481,7685	602,2106
STORY5	B417	300	400	982,14	1964,29	537,5	62,5	7225	-196428,57	36830357,14	86,2739	73,3328	165,3378	389,3171	486,6464
STORY5	B418	300	400	1473,21	2455,36	537,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	481,7685	602,2106
STORY5	B466	300	400	1473,21	2455,36	537,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	481,7685	602,2106

Tabel Momen Kapasitas Positif Balok GEDUNG A Arah Y Elev E

Lantai	No. Elemen	b (mm)	be (mm)	As' (mm2)	As (mm2)	d (mm)	d' (mm)	A	B	C1	c (mm)	a (mm)	fs' (MPa)	Mn+ (kNm)	Mpr1 (kNm)
STORY4	B27	300	1225	2529,49	982,14	537,5	62,5	22126,563	1124834,3	94855714,29	44,8174538	38,094836	-236,72759	229,697165	287,121456
STORY3	B27	300	1225	2529,49	982,14	537,5	62,5	22126,563	1124834,3	94855714,29	44,8174538	38,094836	-236,72759	229,697165	287,121456
STORY2	B27	300	1225	3020,56	1473,21	537,5	62,5	22126,563	1223048,6	113270892,9	49,0635559	41,704023	-164,31476	325,124097	406,405122
STORY1	B27	300	1225	3020,56	1473,21	537,5	62,5	22126,563	1223048,6	113270892,9	49,0635559	41,704023	-164,31476	325,124097	406,405122
STORY4	B28	300	1550	2717,89	982,14	537,5	62,5	27996,875	1237874,3	101920714,3	42,1512326	35,828548	-289,6537	239,222883	299,028603
STORY3	B28	300	1550	2717,89	982,14	537,5	62,5	27996,875	1237874,3	101920714,3	42,1512326	35,828548	-289,6537	239,222883	299,028603
STORY2	B28	300	1550	3208,96	1473,21	537,5	62,5	27996,875	1336088,6	120335892,9	45,9064846	39,020512	-216,87806	335,162772	418,953465
STORY1	B28	300	1550	3208,96	1473,21	537,5	62,5	27996,875	1336088,6	120335892,9	45,9064846	39,020512	-216,87806	335,162772	418,953465
STORY4	B29	300	1225	2529,49	982,14	537,5	62,5	22126,563	1124834,3	94855714,29	44,8174538	38,094836	-236,72759	229,697165	287,121456
STORY3	B29	300	1225	2529,49	982,14	537,5	62,5	22126,563	1124834,3	94855714,29	44,8174538	38,094836	-236,72759	229,697165	287,121456
STORY2	B29	300	1225	3020,56	1473,21	537,5	62,5	22126,563	1223048,6	113270892,9	49,0635559	41,704023	-164,31476	325,124097	406,405122
STORY1	B29	300	1225	3020,56	1473,21	537,5	62,5	22126,563	1223048,6	113270892,9	49,0635559	41,704023	-164,31476	325,124097	406,405122
STORY5	B417	300	1225	2529,49	982,14	537,5	62,5	22126,563	1124834,3	94855714,29	44,8174538	38,094836	-236,72759	229,697165	287,121456
STORY5	B418	300	1225	3020,56	1473,21	537,5	62,5	22126,563	1223048,6	113270892,9	49,0635559	41,704023	-164,31476	325,124097	406,405122
STORY5	B466	300	1550	3208,96	1473,21	537,5	62,5	27996,875	1336088,6	120335892,9	45,9064846	39,020512	-216,87806	335,162772	418,953465

Tabel Momen Kapasitas Negatif Balok GEDUNG A Arah X Elev 5

Lantai	No. Elemen	b (mm)	be (mm)	As' (mm2)	As (mm2)	d (mm)	d' (mm)	A	B	C1	c (mm)	a (mm)	fs' (MPa)	Mn- (kNm)	Mpr2 (kNm)
STORY4	B11	400	400	982,14	1964,29	637,5	62,5	7225	-196428,57	36830357,14	86,2739	73,3328	165,3378	467,8885	584,8607
STORY3	B11	400	400	982,14	1964,29	637,5	62,5	7225	-196428,57	36830357,14	86,2739	73,3328	165,3378	467,8885	584,8607
STORY2	B11	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY1	B11	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY4	B12	400	400	982,14	1964,29	637,5	62,5	7225	-196428,57	36830357,14	86,2739	73,3328	165,3378	467,8885	584,8607
STORY3	B12	400	400	982,14	1964,29	637,5	62,5	7225	-196428,57	36830357,14	86,2739	73,3328	165,3378	467,8885	584,8607
STORY2	B12	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY1	B12	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY4	B13	400	400	982,14	1964,29	637,5	62,5	7225	-196428,57	36830357,14	86,2739	73,3328	165,3378	467,8885	584,8607
STORY3	B13	400	400	982,14	1964,29	637,5	62,5	7225	-196428,57	36830357,14	86,2739	73,3328	165,3378	467,8885	584,8607
STORY2	B13	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY1	B13	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY4	B14	400	400	982,14	1964,29	637,5	62,5	7225	-196428,57	36830357,14	86,2739	73,3328	165,3378	467,8885	584,8607
STORY3	B14	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY2	B14	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY1	B14	400	400	1473,21	2455,36	637,5	62,5	7225	-98214,286	55245535,71	94,5045	80,3288	203,1936	579,9828	724,9785
STORY6	B15	300	400	982,14	982,14	537,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	202,5682	253,2102
STORY4	B15	400	400	982,14	982,14	637,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	241,8539	302,3174
STORY3	B15	400	400	982,14	982,14	637,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	241,8539	302,3174
STORY2	B15	400	400	982,14	1473,21	637,5	62,5	7225	0	36830357,14	71,3977	60,6880	74,7728	355,4269	444,2836
STORY1	B15	400	400	982,14	1473,21	637,5	62,5	7225	0	36830357,14	71,3977	60,6880	74,7728	355,4269	444,2836
STORY5	B403	400	400	982,14	982,14	637,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	241,8539	302,3174
STORY5	B404	400	400	982,14	982,14	637,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	241,8539	302,3174
STORY5	B405	400	400	982,14	982,14	637,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	241,8539	302,3174
STORY5	B406	400	400	982,14	982,14	637,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	241,8539	302,3174
STORY5	B407	400	400	982,14	982,14	637,5	62,5	7225	196428,57	36830357,14	59,0866	50,2236	-34,6622	241,8539	302,3174

Tabel Momen Kapasitas Positif Balok GEDUNG A Arah X Elev 5

Lantai	No. Elemen	b (mm)	be (mm)	As' (mm2)	As (mm2)	d (mm)	d' (mm)	A	B	C1	c (mm)	a (mm)	fs' (MPa)	Mn+ (kNm)	Mpr1 (kNm)
STORY4	B11	400	2000	2906,29	982,14	637,5	62,5	36125	1350914,3	108985714,3	39,323879	33,425297	-353,61905	290,93723	363,671537
STORY3	B11	400	2000	2906,29	982,14	637,5	62,5	36125	1350914,3	108985714,3	39,323879	33,425297	-353,61905	290,93723	363,671537
STORY2	B11	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY1	B11	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY4	B12	400	2000	2906,29	982,14	637,5	62,5	36125	1350914,3	108985714,3	39,323879	33,425297	-353,61905	290,93723	363,671537
STORY3	B12	400	2000	2906,29	982,14	637,5	62,5	36125	1350914,3	108985714,3	39,323879	33,425297	-353,61905	290,93723	363,671537
STORY2	B12	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY1	B12	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY4	B13	400	2000	2906,29	982,14	637,5	62,5	36125	1350914,3	108985714,3	39,323879	33,425297	-353,61905	290,93723	363,671537
STORY3	B13	400	2000	2906,29	982,14	637,5	62,5	36125	1350914,3	108985714,3	39,323879	33,425297	-353,61905	290,93723	363,671537
STORY2	B13	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY1	B13	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY4	B14	400	2000	2906,29	982,14	637,5	62,5	36125	1350914,3	108985714,3	39,323879	33,425297	-353,61905	290,93723	363,671537
STORY3	B14	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY2	B14	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY1	B14	400	2000	3397,36	1473,21	637,5	62,5	36125	1449128,6	127400892,9	42,6242523	36,230614	-279,78083	407,182885	508,978606
STORY6	B15	300	1000	1358,94	982,14	637,5	62,5	18062,5	422508,57	50960357,14	42,6929084	36,288972	-278,36602	260,097197	325,121497
STORY4	B15	400	1000	1358,94	982,14	637,5	62,5	18062,5	422508,57	50960357,14	42,6929084	36,288972	-278,36602	260,097197	325,121497
STORY3	B15	400	1000	1358,94	982,14	637,5	62,5	18062,5	422508,57	50960357,14	42,6929084	36,288972	-278,36602	260,097197	325,121497
STORY2	B15	400	1000	1850,01	982,14	637,5	62,5	18062,5	717151,43	69375535,71	45,2246256	38,440932	-229,19426	261,246602	326,558252
STORY1	B15	400	1000	1850,01	982,14	637,5	62,5	18062,5	717151,43	69375535,71	45,2246256	38,440932	-229,19426	261,246602	326,558252
STORY5	B403	400	2000	1924,14	982,14	637,5	62,5	36125	761628,57	72155357,14	35,376887	30,070354	-460,01413	286,552428	358,190535
STORY5	B404	400	2000	1924,14	982,14	637,5	62,5	36125	761628,57	72155357,14	35,376887	30,070354	-460,01413	286,552428	358,190535
STORY5	B405	400	2000	1924,14	982,14	637,5	62,5	36125	761628,57	72155357,14	35,376887	30,070354	-460,01413	286,552428	358,190535
STORY5	B406	400	2000	1924,14	982,14	637,5	62,5	36125	761628,57	72155357,14	35,376887	30,070354	-460,01413	286,552428	358,190535
STORY5	B407	400	1000	1358,94	982,14	637,5	62,5	18062,5	422508,57	50960357,14	42,6929084	36,288972	-278,36602	260,097197	325,121497

Tabel Penulangan Lentur Gedung A Balok Arah Y Elev E

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	ρ	pmin	pmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
STORY4	B27	300	537,5	80,1181	1,1555	0,0030	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	97,7413	1,4096	0,0036	0,0035	0,0203	588,4763	1964,29	982,14	4	D25	2	D25
		300	537,5	160,2362	2,3110	0,0061	0,0035	0,0203	988,6567	1964,29	982,14	4	D25	2	D25
STORY3	B27	300	537,5	94,07935	1,3568	0,0035	0,0035	0,0203	565,6481	982,14	982,14	2	D25	2	D25
		300	537,5	98,9904	1,4277	0,0037	0,0035	0,0203	596,2780	1964,29	982,14	4	D25	2	D25
		300	537,5	188,1587	2,7137	0,0073	0,0035	0,0203	1174,4548	1964,29	982,14	4	D25	2	D25
STORY2	B27	300	537,5	101,326	1,4613	0,0038	0,0035	0,0203	610,8864	982,14	982,14	2	D25	2	D25
		300	537,5	98,7772	1,4246	0,0037	0,0035	0,0203	594,9459	1964,29	982,14	4	D25	2	D25
		300	537,5	202,652	2,9227	0,0079	0,0035	0,0203	1272,7599	2455,36	1473,21	5	D25	3	D25
STORY1	B27	300	537,5	100,40875	1,4481	0,0038	0,0035	0,0203	605,1461	1473,21	982,14	3	D25	2	D25
		300	537,5	98,4693	1,4201	0,0037	0,0035	0,0203	593,0224	1964,29	982,14	4	D25	2	D25
		300	537,5	200,8175	2,8962	0,0078	0,0035	0,0203	1260,2438	2455,36	1473,21	5	D25	3	D25
STORY4	B28	300	537,5	138,47325	1,9971	0,0053	0,0035	0,0203	846,9450	982,14	982,14	2	D25	2	D25
		300	537,5	191,0531	2,7554	0,0074	0,0035	0,0203	1193,9822	1473,21	982,14	3	D25	2	D25
		300	537,5	276,9465	3,9942	0,0112	0,0035	0,0203	1799,0694	1964,29	982,14	4	D25	2	D25
STORY3	B28	300	537,5	151,52135	2,1853	0,0058	0,0035	0,0203	931,5933	982,14	982,14	2	D25	2	D25
		300	537,5	198,4802	2,8625	0,0077	0,0035	0,0203	1244,3282	1473,21	982,14	3	D25	2	D25
		300	537,5	303,0427	4,3705	0,0124	0,0035	0,0203	1993,9317	1964,29	982,14	4	D25	2	D25
STORY2	B28	300	537,5	159,72465	2,3036	0,0061	0,0035	0,0203	985,2953	982,14	982,14	2	D25	2	D25
		300	537,5	203,3585	2,9329	0,0079	0,0035	0,0203	1277,5858	1473,21	982,14	3	D25	2	D25
		300	537,5	319,4493	4,6072	0,0131	0,0035	0,0203	2119,4557	2455,36	1473,21	5	D25	3	D25
STORY1	B28	300	537,5	155,3374	2,2403	0,0059	0,0035	0,0203	956,5275	982,14	982,14	2	D25	2	D25
		300	537,5	201,6621	2,9084	0,0079	0,0035	0,0203	1266,0035	1473,21	982,14	3	D25	2	D25
		300	537,5	310,6748	4,4806	0,0127	0,0035	0,0203	2052,0227	2455,36	1473,21	5	D25	3	D25
STORY4	B29	300	537,5	79,71765	1,1497	0,0030	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	97,7448	1,4097	0,0036	0,0035	0,0203	588,4982	1473,21	982,14	3	D25	2	D25
		300	537,5	159,4353	2,2994	0,0061	0,0035	0,0203	983,3946	1964,29	982,14	4	D25	2	D25
STORY3	B29	300	537,5	93,2913	1,3455	0,0035	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	99,0632	1,4287	0,0037	0,0035	0,0203	596,7329	1473,21	982,14	3	D25	2	D25
		300	537,5	186,5826	2,6909	0,0072	0,0035	0,0203	1163,8432	1964,29	982,14	4	D25	2	D25
STORY2	B29	300	537,5	100,8501	1,4545	0,0038	0,0035	0,0203	607,9076	982,14	982,14	2	D25	2	D25
		300	537,5	98,7804	1,4246	0,0037	0,0035	0,0203	594,9658	1473,21	982,14	3	D25	2	D25
		300	537,5	201,7002	2,9090	0,0079	0,0035	0,0203	1266,2634	2455,36	1473,21	5	D25	3	D25

Tabel Penulangan Lentur Gedung A Balok Arah Y Elev E

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'	
STORY1	B29	300	537,5	100,5419	1,4500	0,0038	0,0035	0,0203	605,9791	982,14	982,14	2	D25	2	D25
		300	537,5	98,4981	1,4206	0,0037	0,0035	0,0203	593,2023	1473,21	982,14	3	D25	2	D25
		300	537,5	201,0838	2,9001	0,0078	0,0035	0,0203	1262,0593	2455,36	1473,21	5	D25	3	D25
STORY5	B417	300	537,5	45,7852	0,6603	0,0017	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	64,1315	0,9249	0,0024	0,0035	0,0203	564,3750	1964,29	982,14	4	D25	2	D25
		300	537,5	91,5703	1,3206	0,0034	0,0035	0,0203	564,3750	1964,29	982,14	4	D25	2	D25
STORY5	B418	300	537,5	45,7376	0,6596	0,0017	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	64,9002	0,9360	0,0024	0,0035	0,0203	564,3750	1964,29	982,14	4	D25	2	D25
		300	537,5	91,4752	1,3193	0,0034	0,0035	0,0203	564,3750	2455,36	1473,21	5	D25	3	D25
STORY5	B466	300	537,5	60,1250	0,8671	0,0022	0,0035	0,0203	564,3750	1473,21	982,14	3	D25	2	D25
		300	537,5	86,7440	1,2510	0,0032	0,0035	0,0203	564,3750	1964,29	982,14	4	D25	2	D25
		300	537,5	120,2500	1,7343	0,0045	0,0035	0,0203	730,2536	2455,36	1473,21	5	D25	3	D25

Tabel Penulangan Lentur Gedung A Balok Arah X Elev 5

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	ρ	ρmin	ρmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
STORY4	B11	400	637,5	167,5157	1,2881	0,0033	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	308,8059	2,3745	0,0063	0,0035	0,0203	1609,3485	1964,29	982,14	4	D25	2	D25
		400	637,5	335,0314	2,5762	0,0069	0,0035	0,0203	1756,1386	1964,29	982,14	4	D25	2	D25
STORY3	B11	400	637,5	180,26315	1,3861	0,0036	0,0035	0,0203	914,5109	982,14	982,14	2	D25	2	D25
		400	637,5	310,1499	2,3849	0,0063	0,0035	0,0203	1616,8273	1964,29	982,14	4	D25	2	D25
		400	637,5	360,5263	2,7722	0,0075	0,0035	0,0203	1900,6128	1964,29	982,14	4	D25	2	D25
STORY2	B11	400	637,5	194,9745	1,4992	0,0039	0,0035	0,0203	992,0842	982,14	982,14	2	D25	2	D25
		400	637,5	310,3198	2,3862	0,0063	0,0035	0,0203	1617,7730	1964,29	982,14	4	D25	2	D25
		400	637,5	389,949	2,9985	0,0081	0,0035	0,0203	2069,6053	2455,36	1473,21	5	D25	3	D25
STORY1	B11	400	637,5	203,6198	1,5657	0,0041	0,0035	0,0203	1037,8955	1473,21	982,14	3	D25	2	D25
		400	637,5	315,5348	2,4263	0,0065	0,0035	0,0203	1646,8390	1964,29	982,14	4	D25	2	D25
		400	637,5	407,2396	3,1314	0,0085	0,0035	0,0203	2170,0867	2455,36	1473,21	5	D25	3	D25
STORY4	B12	400	637,5	173,7802	1,3363	0,0035	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	292,2444	2,2472	0,0060	0,0035	0,0203	1517,5727	1473,21	982,14	3	D25	2	D25
		400	637,5	347,5604	2,6725	0,0072	0,0035	0,0203	1826,9152	1964,29	982,14	4	D25	2	D25
STORY3	B12	400	637,5	187,6457	1,4429	0,0037	0,0035	0,0203	953,3795	982,14	982,14	2	D25	2	D25
		400	637,5	292,2007	2,2468	0,0060	0,0035	0,0203	1517,3315	1473,21	982,14	3	D25	2	D25
		400	637,5	375,2914	2,8857	0,0078	0,0035	0,0203	1985,1090	1964,29	982,14	4	D25	2	D25
STORY2	B12	400	637,5	196,9356	1,5143	0,0039	0,0035	0,0203	1002,4614	982,14	982,14	2	D25	2	D25
		400	637,5	292,6332	2,2502	0,0060	0,0035	0,0203	1519,7193	1473,21	982,14	3	D25	2	D25
		400	637,5	393,8712	3,0286	0,0082	0,0035	0,0203	2092,3212	2455,36	1473,21	5	D25	3	D25
STORY1	B12	400	637,5	197,06305	1,5153	0,0039	0,0035	0,0203	1003,1361	982,14	982,14	2	D25	2	D25
		400	637,5	293,0205	2,2531	0,0060	0,0035	0,0203	1521,8579	1473,21	982,14	3	D25	2	D25
		400	637,5	394,1261	3,0306	0,0082	0,0035	0,0203	2093,7990	2455,36	1473,21	5	D25	3	D25
STORY4	B13	400	637,5	175,30135	1,3480	0,0035	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	288,5596	2,2188	0,0059	0,0035	0,0203	1497,2484	1473,21	982,14	3	D25	2	D25
		400	637,5	350,6027	2,6959	0,0072	0,0035	0,0203	1844,1659	1964,29	982,14	4	D25	2	D25
STORY3	B13	400	637,5	188,54565	1,4498	0,0038	0,0035	0,0203	958,1259	982,14	982,14	2	D25	2	D25
		400	637,5	289,1846	2,2236	0,0059	0,0035	0,0203	1500,6933	1473,21	982,14	3	D25	2	D25
		400	637,5	377,0913	2,8996	0,0078	0,0035	0,0203	1995,4515	1964,29	982,14	4	D25	2	D25

Tabel Penulangan Lentur Gedung A Balok Arah X Elev 5

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'	
STORY2	B13	400	637,5	197,43465	1,5181	0,0039	0,0035	0,0203	1005,1035	982,14	982,14	2	D25	2	D25
		400	637,5	289,9286	2,2294	0,0059	0,0035	0,0203	1504,7954	1473,21	982,14	3	D25	2	D25
		400	637,5	394,8693	3,0363	0,0082	0,0035	0,0203	2098,1090	2455,36	1473,21	5	D25	3	D25
STORY1	B13	400	637,5	197,9609	1,5222	0,0040	0,0035	0,0203	1007,8899	982,14	982,14	2	D25	2	D25
		400	637,5	291,2731	2,2397	0,0059	0,0035	0,0203	1512,2120	1473,21	982,14	3	D25	2	D25
		400	637,5	395,9217	3,0444	0,0083	0,0035	0,0203	2104,2148	2455,36	1473,21	5	D25	3	D25
STORY4	B14	400	637,5	185,1311	1,4235	0,0037	0,0035	0,0203	940,1269	982,14	982,14	2	D25	2	D25
		400	637,5	318,8671	2,4519	0,0065	0,0035	0,0203	1665,4489	1964,29	982,14	4	D25	2	D25
		400	637,5	370,2622	2,8471	0,0077	0,0035	0,0203	1956,2592	1964,29	982,14	4	D25	2	D25
STORY3	B14	400	637,5	197,0750	1,5154	0,0039	0,0035	0,0203	1003,1993	982,14	982,14	2	D25	2	D25
		400	637,5	318,3101	2,4476	0,0065	0,0035	0,0203	1662,3362	1964,29	982,14	4	D25	2	D25
		400	637,5	394,1500	3,0308	0,0082	0,0035	0,0203	2093,9376	2455,36	1473,21	5	D25	3	D25
STORY2	B14	400	637,5	205,6181	1,5811	0,0041	0,0035	0,0203	1048,5084	1473,21	982,14	3	D25	2	D25
		400	637,5	317,6873	2,4428	0,0065	0,0035	0,0203	1658,8568	1964,29	982,14	4	D25	2	D25
		400	637,5	411,2362	3,1621	0,0086	0,0035	0,0203	2193,4388	2455,36	1473,21	5	D25	3	D25
STORY1	B14	400	637,5	204,8208	1,5749	0,0041	0,0035	0,0203	1044,2729	1473,21	982,14	3	D25	2	D25
		400	637,5	319,1747	2,4542	0,0065	0,0035	0,0203	1667,1683	1964,29	982,14	4	D25	2	D25
		400	637,5	409,6416	3,1499	0,0086	0,0035	0,0203	2184,1158	2455,36	1473,21	5	D25	3	D25
STORY6	B15	300	537,5	18,9326	0,2730	0,0007	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	48,9224	0,7056	0,0018	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	37,8652	0,5461	0,0014	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
STORY4	B15	400	637,5	77,3891	0,5951	0,0015	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	38,6946	0,2975	0,0007	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	154,7782	1,1901	0,0031	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
STORY3	B15	400	637,5	95,7564	0,7363	0,0019	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	47,8782	0,3682	0,0009	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	191,5128	1,4726	0,0038	0,0035	0,0203	973,7875	982,14	982,14	2	D25	2	D25
STORY2	B15	400	637,5	106,4305	0,8184	0,0021	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	53,2153	0,4092	0,0010	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	212,8610	1,6368	0,0043	0,0035	0,0203	1087,0507	1473,21	982,14	3	D25	2	D25

Tabel Penulangan Lentur Gedung A Balok Arah X Elev 5

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'	
STORY1	B15	400	637,5	114,2039	0,8782	0,0022	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	54,5966	0,4198	0,0011	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	218,3863	1,6792	0,0044	0,0035	0,0203	1116,5334	1473,21	982,14	3	D25	2	D25
STORY5	B403	400	637,5	88,4063	0,6798	0,0017	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	175,8329	1,3520	0,0035	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	176,8126	1,3596	0,0035	0,0035	0,0203	896,3849	982,14	982,14	2	D25	2	D25
STORY5	B404	400	637,5	89,6394	0,6893	0,0018	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	138,5591	1,0654	0,0027	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	179,2788	1,3785	0,0036	0,0035	0,0203	909,3374	982,14	982,14	2	D25	2	D25
STORY5	B405	400	637,5	84,7885	0,6520	0,0017	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	135,7017	1,0435	0,0027	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	169,5769	1,3039	0,0034	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
STORY5	B406	400	637,5	92,6914	0,7127	0,0018	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	158,9982	1,2226	0,0031	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	185,3827	1,4255	0,0037	0,0035	0,0203	941,4523	982,14	982,14	2	D25	2	D25
STORY5	B407	400	637,5	52,0544	0,4003	0,0010	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	58,2515	0,4479	0,0011	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	537,5	104,1088	1,1261	0,0029	0,0035	0,0203	752,5000	982,14	982,14	2	D25	2	D25

Tabel Penulangan Lentur Gedung B Balok Arah Y Elev K

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'	
STORY6	B499	250	337,5	23,92675	1,0503	0,0027	0,0035	0,0203	295,3125	982,14	982,14	2	D25	2	D25
		250	337,5	24,7967	1,0885	0,0028	0,0035	0,0203	295,3125	1964,29	982,14	4	D25	2	D25
		250	337,5	47,8535	2,1006	0,0055	0,0035	0,0203	467,4634	1964,29	982,14	4	D25	2	D25
STORY5	B501	250	337,5	35,1317	1,5421	0,0040	0,0035	0,0203	338,0401	982,14	982,14	2	D25	2	D25
		250	337,5	17,56585	0,7711	0,0020	0,0035	0,0203	295,3125	1964,29	982,14	4	D25	2	D25
		250	337,5	70,2634	3,0843	0,0084	0,0035	0,0203	706,2208	1964,29	982,14	4	D25	2	D25
STORY4	B501	250	337,5	31,7914	1,3955	0,0036	0,0035	0,0203	304,7226	982,14	982,14	2	D25	2	D25
		250	337,5	15,8957	0,6978	0,0018	0,0035	0,0203	295,3125	1964,29	982,14	4	D25	2	D25
		250	337,5	63,5828	2,7910	0,0075	0,0035	0,0203	633,4952	2455,36	1473,21	5	D25	3	D25
STORY3	B501	250	337,5	33,61275	1,4755	0,0038	0,0035	0,0203	322,8564	1473,21	982,14	3	D25	2	D25
		250	337,5	16,806375	0,7377	0,0019	0,0035	0,0203	295,3125	1964,29	982,14	4	D25	2	D25
		250	337,5	67,2255	2,9509	0,0080	0,0035	0,0203	672,9778	2455,36	1473,21	5	D25	3	D25
STORY2	B501	250	337,5	35,68435	1,5664	0,0041	0,0035	0,0203	343,5783	982,14	982,14	2	D25	2	D25
		250	337,5	17,842175	0,7832	0,0020	0,0035	0,0203	295,3125	1473,21	982,14	3	D25	2	D25
		250	337,5	71,3687	3,1328	0,0085	0,0035	0,0203	718,3886	1964,29	982,14	4	D25	2	D25
STORY1	B501	250	337,5	36,8373	1,6170	0,0042	0,0035	0,0203	355,1562	982,14	982,14	2	D25	2	D25
		250	337,5	18,41865	0,8085	0,0021	0,0035	0,0203	295,3125	1473,21	982,14	3	D25	2	D25
		250	337,5	73,6746	3,2340	0,0088	0,0035	0,0203	743,9010	1964,29	982,14	4	D25	2	D25
STORY5	B517	400	637,5	86,49645	0,6651	0,0017	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	146,0401	1,1230	0,0029	0,0035	0,0203	892,5000	1473,21	982,14	3	D25	2	D25
		400	637,5	172,9929	1,3302	0,0034	0,0035	0,0203	892,5000	2455,36	1473,21	5	D25	3	D25
STORY4	B517	400	637,5	180,79815	1,3902	0,0036	0,0035	0,0203	917,3236	982,14	982,14	2	D25	2	D25
		400	637,5	312,5672	2,4034	0,0064	0,0035	0,0203	1630,2903	1473,21	982,14	3	D25	2	D25
		400	637,5	361,5963	2,7804	0,0075	0,0035	0,0203	1906,7155	2455,36	1473,21	5	D25	3	D25
STORY3	B517	400	637,5	192,9889	1,4840	0,0038	0,0035	0,0203	981,5861	982,14	982,14	2	D25	2	D25
		400	637,5	311,9322	2,3986	0,0064	0,0035	0,0203	1626,7522	1473,21	982,14	3	D25	2	D25
		400	637,5	385,9778	2,9679	0,0080	0,0035	0,0203	2046,6513	1964,29	982,14	4	D25	2	D25
STORY2	B517	400	637,5	203,45645	1,5644	0,0041	0,0035	0,0203	1037,0284	982,14	982,14	2	D25	2	D25
		400	637,5	311,7063	2,3968	0,0064	0,0035	0,0203	1625,4938	1473,21	982,14	3	D25	2	D25
		400	637,5	406,9129	3,1289	0,0085	0,0035	0,0203	2168,1799	1964,29	982,14	4	D25	2	D25
STORY1	B517	400	637,5	205,4172	1,5795	0,0041	0,0035	0,0203	1047,4410	982,14	982,14	2	D25	2	D25
		400	637,5	313,9796	2,4143	0,0064	0,0035	0,0203	1638,1636	1473,21	982,14	3	D25	2	D25
		400	637,5	410,8344	3,1590	0,0086	0,0035	0,0203	2191,0889	2455,36	1473,21	5	D25	3	D25

Tabel Penulangan Lentur Gedung B Balok Arah Y Elev K

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'	
STORY5	B518	400	637,5	84,3300	0,6484	0,0016	0,0035	0,0203	892,5000	982,14	982,14	2	D25	2	D25
		400	637,5	165,4756	1,2724	0,0033	0,0035	0,0203	892,5000	1473,21	982,14	3	D25	2	D25
		400	637,5	168,6600	1,2969	0,0033	0,0035	0,0203	892,5000	2455,36	1473,21	5	D25	3	D25
STORY4	B518	400	637,5	181,8057	1,3980	0,0036	0,0035	0,0203	922,6222	982,14	982,14	2	D25	2	D25
		400	637,5	332,8055	2,5591	0,0068	0,0035	0,0203	1743,6089	1964,29	982,14	4	D25	2	D25
		400	637,5	363,6113	2,7959	0,0075	0,0035	0,0203	1918,2166	1964,29	982,14	4	D25	2	D25
STORY3	B518	400	637,5	193,9314	1,4912	0,0039	0,0035	0,0203	986,5679	982,14	982,14	2	D25	2	D25
		400	637,5	332,8027	2,5590	0,0068	0,0035	0,0203	1743,5931	1964,29	982,14	4	D25	2	D25
		400	637,5	387,8627	2,9824	0,0081	0,0035	0,0203	2057,5405	2455,36	1473,21	5	D25	3	D25
STORY2	B518	400	637,5	204,0931	1,5693	0,0041	0,0035	0,0203	1040,4081	1473,21	982,14	3	D25	2	D25
		400	637,5	332,1550	2,5541	0,0068	0,0035	0,0203	1739,9496	1964,29	982,14	4	D25	2	D25
		400	637,5	408,1861	3,1387	0,0085	0,0035	0,0203	2175,6127	2455,36	1473,21	5	D25	3	D25
STORY1	B518	400	637,5	210,0980	1,6155	0,0042	0,0035	0,0203	1072,3337	1473,21	982,14	3	D25	2	D25
		400	637,5	336,7545	2,5894	0,0069	0,0035	0,0203	1765,8472	1964,29	982,14	4	D25	2	D25
		400	637,5	420,1960	3,2310	0,0088	0,0035	0,0203	2245,9661	2455,36	1473,21	5	D25	3	D25
STORY5	B531	250	337,5	40,6820	1,7858	0,0047	0,0035	0,0203	394,0014	982,14	982,14	2	D25	2	D25
		250	337,5	20,3410	0,8929	0,0023	0,0035	0,0203	295,3125	982,14	982,14	2	D25	2	D25
		250	337,5	81,3640	3,5715	0,0098	0,0035	0,0203	830,2639	982,14	982,14	2	D25	2	D25
STORY4	B531	250	337,5	31,9471	1,4023	0,0036	0,0035	0,0203	306,2692	982,14	982,14	2	D25	2	D25
		250	337,5	17,1182	0,7514	0,0019	0,0035	0,0203	295,3125	982,14	982,14	2	D25	2	D25
		250	337,5	63,8941	2,8047	0,0075	0,0035	0,0203	636,8535	982,14	982,14	2	D25	2	D25
STORY3	B531	250	337,5	36,5574	1,6047	0,0042	0,0035	0,0203	352,3419	982,14	982,14	2	D25	2	D25
		250	337,5	18,2787	0,8024	0,0020	0,0035	0,0203	295,3125	982,14	982,14	2	D25	2	D25
		250	337,5	73,1147	3,2094	0,0087	0,0035	0,0203	737,6903	982,14	982,14	2	D25	2	D25
STORY2	B531	250	337,5	32,6732	1,4342	0,0037	0,0035	0,0203	313,4917	982,14	982,14	2	D25	2	D25
		250	337,5	19,8912	0,8731	0,0022	0,0035	0,0203	295,3125	982,14	982,14	2	D25	2	D25
		250	337,5	65,3463	2,8684	0,0077	0,0035	0,0203	652,5586	1473,21	982,14	3	D25	2	D25
STORY1	B531	250	337,5	37,4554	1,6441	0,0043	0,0035	0,0203	361,3765	982,14	982,14	2	D25	2	D25
		250	337,5	18,7277	0,8221	0,0021	0,0035	0,0203	295,3125	982,14	982,14	2	D25	2	D25
		250	337,5	74,9108	3,2883	0,0090	0,0035	0,0203	757,6502	1473,21	982,14	3	D25	2	D25
STORY5	B532	250	337,5	19,7264	0,8659	0,0022	0,0035	0,0203	295,3125	982,14	982,14	2	D25	2	D25
		250	337,5	51,8769	2,2772	0,0060	0,0035	0,0203	509,2723	982,14	982,14	2	D25	2	D25
		250	337,5	39,4527	1,7318	0,0045	0,0035	0,0203	381,5410	982,14	982,14	2	D25	2	D25

Tabel Penulangan Lentur Gedung B Balok Arah Y Elev K

		b (mm)	d (mm)	Mu (kNm)	k	ρ	ρ_{min}	ρ_{max}	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
STORY4	B532	250	337,5	17,6458	0,7746	0,0020	0,0035	0,0203	295,3125	982,14	982,14	2	D25	2	D25
		250	337,5	45,4495	1,9950	0,0052	0,0035	0,0203	442,6889	982,14	982,14	2	D25	2	D25
		250	337,5	35,2916	1,5492	0,0040	0,0035	0,0203	339,6417	982,14	982,14	2	D25	2	D25
STORY3	B532	250	337,5	17,0242	0,7473	0,0019	0,0035	0,0203	295,3125	982,14	982,14	2	D25	2	D25
		250	337,5	45,8980	2,0147	0,0053	0,0035	0,0203	447,2994	982,14	982,14	2	D25	2	D25
		250	337,5	34,0483	1,4946	0,0039	0,0035	0,0203	327,2046	982,14	982,14	2	D25	2	D25
STORY2	B532	250	337,5	17,2959	0,7592	0,0019	0,0035	0,0203	295,3125	982,14	982,14	2	D25	2	D25
		250	337,5	45,6961	2,0059	0,0053	0,0035	0,0203	445,2233	982,14	982,14	2	D25	2	D25
		250	337,5	34,5918	1,5184	0,0039	0,0035	0,0203	332,6368	982,14	982,14	2	D25	2	D25
STORY1	B532	250	337,5	16,1741	0,7100	0,0018	0,0035	0,0203	295,3125	982,14	982,14	2	D25	2	D25
		250	337,5	46,7482	2,0520	0,0054	0,0035	0,0203	456,0538	982,14	982,14	2	D25	2	D25
		250	337,5	32,3482	1,4199	0,0037	0,0035	0,0203	310,2579	982,14	982,14	2	D25	2	D25

Tabel Penulangan Lentur Gedung B Balok Arah X Elev8

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	p	pmin	pmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
STORY6	B495	300	537,5	28,0583	0,4047	0,0010	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	28,9829	0,4180	0,0011	0,0035	0,0203	564,3750	1964,29	982,14	4	D25	2	D25
		300	537,5	56,1166	0,8093	0,0021	0,0035	0,0203	564,3750	1964,29	982,14	4	D25	2	D25
STORY5	B495	300	537,5	68,0768	0,9818	0,0025	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	106,7749	1,5399	0,0040	0,0035	0,0203	645,0721	1964,29	982,14	4	D25	2	D25
		300	537,5	136,1536	1,9636	0,0052	0,0035	0,0203	831,9935	1964,29	982,14	4	D25	2	D25
STORY4	B495	300	537,5	76,4599	1,1027	0,0028	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	93,3538	1,3464	0,0035	0,0035	0,0203	564,3750	1964,29	982,14	4	D25	2	D25
		300	537,5	152,9198	2,2054	0,0058	0,0035	0,0203	940,7213	2455,36	1473,21	5	D25	3	D25
STORY3	B495	300	537,5	86,40765	1,2462	0,0032	0,0035	0,0203	564,3750	1473,21	982,14	3	D25	2	D25
		300	537,5	94,3108	1,3602	0,0035	0,0035	0,0203	567,0890	1964,29	982,14	4	D25	2	D25
		300	537,5	172,8153	2,4924	0,0066	0,0035	0,0203	1071,7887	2455,36	1473,21	5	D25	3	D25
STORY2	B495	300	537,5	91,1236	1,3142	0,0034	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	94,0467	1,3564	0,0035	0,0035	0,0203	565,4449	1473,21	982,14	3	D25	2	D25
		300	537,5	182,2472	2,6284	0,0070	0,0035	0,0203	1134,7317	1964,29	982,14	4	D25	2	D25
STORY1	B495	300	537,5	91,58525	1,3209	0,0034	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	94,6425	1,3650	0,0035	0,0035	0,0203	569,1545	1473,21	982,14	3	D25	2	D25
		300	537,5	183,1705	2,6417	0,0071	0,0035	0,0203	1140,9220	1964,29	982,14	4	D25	2	D25
STORY6	B496	300	537,5	40,4212	0,5830	0,0015	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	20,4388	0,2948	0,0007	0,0035	0,0203	564,3750	1473,21	982,14	3	D25	2	D25
		300	537,5	65,814	0,9492	0,0024	0,0035	0,0203	564,3750	2455,36	1473,21	5	D25	3	D25
STORY5	B509	300	537,5	49,68945	0,7166	0,0018	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	52,3577	0,7551	0,0019	0,0035	0,0203	564,3750	1473,21	982,14	3	D25	2	D25
		300	537,5	99,3789	1,4333	0,0037	0,0035	0,0203	598,7061	2455,36	1473,21	5	D25	3	D25
STORY4	B509	300	537,5	87,78725	1,2661	0,0033	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	92,8681	1,3394	0,0035	0,0035	0,0203	564,3750	1473,21	982,14	3	D25	2	D25
		300	537,5	175,5745	2,5322	0,0068	0,0035	0,0203	1090,1472	1964,29	982,14	4	D25	2	D25
STORY3	B509	300	537,5	92,84855	1,3391	0,0035	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	92,262	1,3306	0,0034	0,0035	0,0203	564,3750	1473,21	982,14	3	D25	2	D25
		300	537,5	185,6971	2,6782	0,0072	0,0035	0,0203	1157,8879	1964,29	982,14	4	D25	2	D25
STORY2	B509	300	537,5	95,3684	1,3754	0,0036	0,0035	0,0203	573,6765	982,14	982,14	2	D25	2	D25
		300	537,5	92,9501	1,3405	0,0035	0,0035	0,0203	564,3750	1473,21	982,14	3	D25	2	D25
		300	537,5	190,7368	2,7508	0,0074	0,0035	0,0203	1191,8457	2455,36	1473,21	5	D25	3	D25

Tabel Penulangan Lentur Gedung B Balok Arah X Elev8

Lantai	Balok	b (mm)	d (mm)	Mu (kNm)	k	p	pmin	pmax	As (mm ²)	As digunakan	As' digunakan	Tulangan terpasang			
												As		As'	
STORY1	B509	300	537,5	88,1606	1,2715	0,0033	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	93,4000	1,3470	0,0035	0,0035	0,0203	564,3750	1473,21	982,14	3	D25	2	D25
		300	537,5	176,3211	2,5429	0,0068	0,0035	0,0203	1095,1225	2455,36	1473,21	5	D25	3	D25
STORY5	B534	300	537,5	205,5248	2,9641	0,0080	0,0035	0,0203	1292,4033	982,14	982,14	2	D25	2	D25
		300	537,5	46,2303	0,6667	0,0017	0,0035	0,0203	564,3750	1964,29	982,14	4	D25	2	D25
		300	537,5	184,9213	2,6670	0,0071	0,0035	0,0203	1152,6743	1964,29	982,14	4	D25	2	D25
STORY4	B534	300	537,5	144,5153	2,0842	0,0055	0,0035	0,0203	886,0262	982,14	982,14	2	D25	2	D25
		300	537,5	63,5661	0,9168	0,0023	0,0035	0,0203	564,3750	1964,29	982,14	4	D25	2	D25
		300	537,5	254,2644	3,6671	0,0101	0,0035	0,0203	1634,1485	2455,36	1473,21	5	D25	3	D25
STORY3	B534	300	537,5	150,1577	2,1656	0,0057	0,0035	0,0203	922,7029	1473,21	982,14	3	D25	2	D25
		300	537,5	65,5241	0,9450	0,0024	0,0035	0,0203	564,3750	1964,29	982,14	4	D25	2	D25
		300	537,5	262,0963	3,7800	0,0105	0,0035	0,0203	1690,6468	2455,36	1473,21	5	D25	3	D25
STORY2	B534	300	537,5	153,2039	2,2095	0,0058	0,0035	0,0203	942,5771	1473,21	982,14	3	D25	2	D25
		300	537,5	67,5693	0,9745	0,0025	0,0035	0,0203	564,3750	1964,29	982,14	4	D25	2	D25
		300	537,5	270,2771	3,8980	0,0109	0,0035	0,0203	1750,1622	2455,36	1473,21	5	D25	3	D25
STORY1	B534	300	537,5	152,3429	2,1971	0,0058	0,0035	0,0203	936,9544	982,14	982,14	2	D25	2	D25
		300	537,5	64,8639	0,9355	0,0024	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	259,4557	3,7419	0,0104	0,0035	0,0203	1671,5461	982,14	982,14	2	D25	2	D25
STORY5	B541	300	537,5	81,6561	1,1777	0,0030	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	40,3251	0,5816	0,0015	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	161,3004	2,3263	0,0062	0,0035	0,0203	995,6544	982,14	982,14	2	D25	2	D25
STORY4	B541	300	537,5	136,3293	1,9662	0,0052	0,0035	0,0203	833,1249	982,14	982,14	2	D25	2	D25
		300	537,5	55,6707	0,8029	0,0020	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	222,6828	3,2116	0,0087	0,0035	0,0203	1410,8475	982,14	982,14	2	D25	2	D25
STORY3	B541	300	537,5	139,5100	2,0120	0,0053	0,0035	0,0203	853,6368	982,14	982,14	2	D25	2	D25
		300	537,5	61,4551	0,8863	0,0023	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	245,8205	3,5453	0,0098	0,0035	0,0203	1573,7466	1473,21	982,14	3	D25	2	D25
STORY2	B541	300	537,5	141,6492	2,0429	0,0054	0,0035	0,0203	867,4630	982,14	982,14	2	D25	2	D25
		300	537,5	64,9386	0,9366	0,0024	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	259,7545	3,7462	0,0104	0,0035	0,0203	1673,7048	1473,21	982,14	3	D25	2	D25
STORY1	B541	300	537,5	138,6615	1,9998	0,0053	0,0035	0,0203	848,1596	982,14	982,14	2	D25	2	D25
		300	537,5	63,0080	0,9087	0,0023	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	252,0319	3,6349	0,0100	0,0035	0,0203	1618,1276	982,14	982,14	2	D25	2	D25

Tabel Penulangan Lentur Gedung B Balok Arah X Elev8

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'	
STORY5	B542	300	537,5	99,2089	1,4308	0,0037	0,0035	0,0203	597,6435	982,14	982,14	2	D25	2	D25
		300	537,5	93,0594	1,3421	0,0035	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
		300	537,5	-46,2135	-0,6665	-0,0016	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
STORY4	B542	300	537,5	147,3639	2,1253	0,0056	0,0035	0,0203	904,5207	982,14	982,14	2	D25	2	D25
		300	537,5	145,3850	2,0968	0,0055	0,0035	0,0203	891,6680	982,14	982,14	2	D25	2	D25
		300	537,5	-92,0869	-1,3281	-0,0032	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
STORY3	B542	300	537,5	153,6069	2,2154	0,0059	0,0035	0,0203	945,2102	982,14	982,14	2	D25	2	D25
		300	537,5	144,8094	2,0885	0,0055	0,0035	0,0203	887,9336	982,14	982,14	2	D25	2	D25
		300	537,5	-83,1787	-1,1996	-0,0029	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
STORY2	B542	300	537,5	157,5221	2,2718	0,0060	0,0035	0,0203	970,8392	982,14	982,14	2	D25	2	D25
		300	537,5	144,5257	2,0844	0,0055	0,0035	0,0203	886,0937	982,14	982,14	2	D25	2	D25
		300	537,5	-78,2990	-1,1292	-0,0028	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25
STORY1	B542	300	537,5	155,9395	2,2490	0,0060	0,0035	0,0203	960,4691	982,14	982,14	2	D25	2	D25
		300	537,5	144,9931	2,0911	0,0055	0,0035	0,0203	889,1252	982,14	982,14	2	D25	2	D25
		300	537,5	-81,3298	-1,1730	-0,0029	0,0035	0,0203	564,3750	982,14	982,14	2	D25	2	D25

Tabel Momen Rencana Gedung B Balok Arah Y Elev K

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	B499	Tu,ki	-31,256	-5,913	-1,771	1,315	2,928	-47,8535	-41,2268	-45,6136	-40,0977	-46,7427	23,927		
		Lap	16,007	3,188	0,975	0,232	1,753	24,7967	23,1543	21,6385	24,219	20,5738		24,8	
		Tu,ka	-27,71	-4,977	-1,621	1,14	-6,079	-42,0257	-38,9127	-37,5453	-43,966	-32,492			-47,854
STORY5	B501	Tu,ki	-5,532	-2,515	-0,091	-1,065	2,471	-10,7079	-9,4771	-8,8297	-7,0019	-11,3049	35,132		
		Lap	-3,098	0,657	-0,118	-0,15	-1,896	-2,7254	-3,7794	-2,3418	-5,0016	-1,1196		17,57	
		Tu,ka	-40,444	-13,54	-0,146	0,764	-6,264	-70,2634	-63,184	-60,9536	-68,1036	-56,034			-70,263
STORY4	B501	Tu,ki	-7,443	-2,936	-0,018	-1,428	3,581	-13,6382	-12,2213	-11,5139	-8,715	-15,0202	31,791		
		Lap	-0,786	0,344	0,028	-0,254	-2,922	-0,3788	-1,7298	0,5314	-3,5974	2,399		15,9	
		Tu,ka	-33,909	-13,74	0,073	0,92	-9,426	-62,6415	-56,3406	-52,525	-63,5828	-45,2828			-63,583
STORY3	B501	Tu,ki	-6,753	-2,872	-0,026	-1,443	4,757	-12,7118	-10,9915	-10,9597	-6,6515	-15,2997	33,613		
		Lap	-0,608	0,428	0,007	-0,581	-3,912	-0,0413	-2,0562	1,453	-4,3879	3,7847		16,81	
		Tu,ka	-34,244	-13,64	0,041	0,281	-12,58	-62,8915	-58,2228	-51,2368	-67,2255	-42,2341			-67,226
STORY2	B501	Tu,ki	-6,067	-2,761	-0,002	-1,155	5,263	-11,699	-9,6175	-10,4653	-5,1249	-14,9579	35,684		
		Lap	-1,038	0,335	-0,002	-0,672	-4,583	-0,7106	-2,9575	1,1363	-5,6952	3,874		17,84	
		Tu,ka	-35,79	-13,93	-0,002	-0,189	-14,43	-65,2434	-61,4	-52,364	-71,3687	-42,3953			-71,369
STORY1	B501	Tu,ki	-4,478	-2,493	-0,006	-0,938	4,916	-9,3654	-7,3298	-8,4034	-3,232	-12,5012	36,837		
		Lap	-1,424	0,309	0,001	-0,733	-4,282	-1,2139	-3,4174	0,6178	-5,9017	3,1021		18,42	
		Tu,ka	-38,151	-14,26	0,008	-0,528	-13,48	-68,5852	-64,6082	-55,4642	-73,6746	-46,3978			-73,675
STORY5	B517	Tu,ki	-98,093	-17,29	-3,265	-2,979	38,89	-147	-126,309	-143,685	-97,0003	-172,993	86,496		
		Lap	99,994	14,673	5,141	0,754	3,795	146,0401	136,5583	132,7733	138,687	130,6446		146	
		Tu,ka	-102,45	-14,21	-5,85	1,717	-33,091	-148,596	-145,358	-128,937	-169,723	-104,571			-172,99
STORY4	B517	Tu,ki	-194,98	-38,73	-0,645	-3,28	66,938	-296,273	-255,909	-289,511	-206,756	-338,664	180,8		
		Lap	207,41	39,821	-0,084	1,708	1,873	312,5672	290,9865	286,4467	291,102	286,3312		312,6	
		Tu,ka	-214,54	-41,83	0,491	0,639	-62,509	-324,132	-317,393	-281,165	-361,596	-236,962			-361,6
STORY3	B517	Tu,ki	-195,57	-39,39	-0,031	0,607	90,454	-297,722	-246,33	-301,816	-183,437	-364,709	192,99		
		Lap	207,04	39,669	0,018	2,853	3,101	311,9322	291,9051	284,3385	292,0787	284,1649		311,9	
		Tu,ka	-216,3	-41,89	0,105	-4,498	-83,173	-326,539	-330,905	-272,006	-385,978	-216,933			-385,98
STORY2	B517	Tu,ki	-192,64	-38,74	-0,023	3,666	105,453	-293,173	-234,614	-305,218	-163,363	-376,469	203,46		
		Lap	206,85	39,682	-0,005	3,669	3,564	311,7063	292,6378	283,1614	292,5643	283,2349		311,7	
		Tu,ka	-220,43	-42,72	0,049	-8,371	-97,167	-332,839	-344,756	-269,714	-406,913	-207,556			-406,91
STORY1	B517	Tu,ki	-183,25	-37,15	-0,038	3,673	99,227	-279,363	-223,611	-290,493	-156,723	-357,381	205,42		
		Lap	208,38	39,95	0	3,617	3,857	313,9796	294,7837	285,2355	294,9517	285,0675		314	
		Tu,ka	-228,32	-44,26	0,05	-8,272	-90,11	-344,774	-353,548	-282,938	-410,834	-225,651			-410,83

Tabel Momen Rencana Gedung B Balok Arah Y Elev K

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	B518	Tu,ki	-100,27	-14,14	-6,06	-1,869	30,305	-145,973	-127,237	-141,682	-104,715	-164,204	84,33		
		Lap	111,44	18,078	5,636	0,573	-2,748	165,4756	151,5594	152,0622	149,2347	154,3869		165,5	
		Tu,ka	-97,16	-16,88	-2,979	1,65	-35,686	-145,085	-142,525	-124,413	-168,66	-98,278			-168,66
STORY4	B518	Tu,ki	-215,73	-42,75	0,354	-2,503	62,743	-327,091	-285,299	-317,939	-239,627	-363,611	181,81		
		Lap	219,3	43,573	-0,133	1,438	-2,517	332,8055	307,4111	306,0453	304,6426	308,8138		332,8	
		Tu,ka	-201,47	-39,39	-0,602	0,58	-67,293	-305,085	-300,759	-261,543	-348,27	-214,032			-363,61
STORY3	B518	Tu,ki	-217,4	-42,98	0,155	0,463	83,861	-329,576	-278,242	-329,484	-219,863	-387,863	193,93		
		Lap	219,36	43,473	0,023	2,537	-3,662	332,8027	308,1458	305,269	303,8065	309,6083		332,8	
		Tu,ka	-200,48	-39,57	-0,068	-4,836	-90,804	-303,92	-312,221	-248,066	-372,398	-187,889			-387,86
STORY2	B518	Tu,ki	-220,92	-43,72	0,194	2,799	98,522	-334,962	-276,469	-341,18	-209,463	-408,186	204,09		
		Lap	218,92	43,407	-0,01	3,324	-4,13	332,155	308,2008	304,0308	302,983	309,2486		332,2	
		Tu,ka	-199,12	-39,22	-0,193	-8,911	-106,474	-301,789	-319,017	-237,311	-387,311	-169,017			-408,19
STORY1	B518	Tu,ki	-234,34	-46,19	0,057	2,508	92,044	-355,084	-297,278	-357,521	-234,603	-420,196	210,1		
		Lap	221,95	44,011	0,001	3,313	-4,529	336,7545	312,3017	308,3931	306,8123	313,8825		336,8	
		Tu,ka	-180,79	-35,72	-0,044	-8,599	-100,994	-274,124	-291,568	-213,773	-356,244	-149,097			-420,2
STORY5	B531	Tu,ki	-49,289	-13,89	0,004	-0,101	4,225	-81,364	-71,8673	-74,2003	-68,8391	-77,2285	40,682		
		Lap	9,09	3,721	-0,001	0,105	1,68	16,8611	15,238	14,02	16,3405	12,9175		20,34	
		Tu,ka	21,78	1,472	-0,006	0,311	-0,865	28,4882	27,6595	27,5565	26,8363	28,3797			-81,364
STORY4	B531	Tu,ki	-34,831	-13,81	-0,011	-0,308	6,956	-63,8941	-53,8324	-57,39	-48,7476	-62,4748	31,947		
		Lap	8,764	3,733	0,007	0,188	2,812	16,4931	15,2814	13,2182	17,1182	11,3814		17,12	
		Tu,ka	6,672	1,423	0,003	0,685	-1,332	10,2847	9,7148	9,144	8,3029	10,5559			-63,894
STORY3	B531	Tu,ki	-40,582	-15,19	-0,215	-0,462	7,112	-73,1147	-62,2198	-65,563	-56,918	-70,8648	36,557		
		Lap	5,564	2,945	-0,126	0,397	2,654	11,3258	10,815	8,4286	12,3949	6,8487		18,28	
		Tu,ka	6,021	1,225	-0,037	1,257	-1,805	9,1667	9,1657	7,7347	7,0223	9,8781			-73,115
STORY2	B531	Tu,ki	-33,776	-13,46	0,033	0,307	11,268	-62,0427	-50,2988	-57,6736	-42,6261	-65,3463	32,673		
		Lap	9,373	3,9	0,015	0,582	4,569	17,4951	17,1003	13,1949	19,8912	10,404		19,89	
		Tu,ka	6,833	1,398	-0,002	0,857	-2,13	10,4354	9,8156	9,3796	7,7247	11,4705			-65,346
STORY1	B531	Tu,ki	-40,972	-16,09	-0,004	-0,51	8,081	-74,9108	-63,3411	-67,1697	-57,3274	-73,1834	37,455		
		Lap	5,364	2,449	-0,003	0,449	3,057	10,3537	10,2519	7,5197	12,0775	5,6941		18,73	
		Tu,ka	6,012	1,129	-0,002	1,409	-1,966	9,0198	9,1626	7,5242	6,8001	9,8867			-74,911
STORY5	B532	Tu,ki	10,725	-2,57	0,025	0,99	-0,169	8,7705	11,2393	9,3607	10,428	10,172	19,726		
		Lap	29,32	10,439	-0,019	-0,032	0,085	51,8769	45,6165	45,6295	45,6984	45,5476		51,88	
		Tu,ka	-22,807	-7,533	-0,063	-1,053	0,339	-39,4527	-35,8527	-33,9501	-34,8783	-34,9245			-39,453

Tabel Momen Rencana Gedung B Balok Arah Y Elev K

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	B532	Tu,ki	-3,519	-2,513	-0,002	1,646	-0,326	-8,2446	-5,1876	-8,284	-6,568	-6,9036	17,646		
		Lap	24,055	10,365	-0,001	0,017	0,031	45,4495	39,2573	39,2047	39,2671	39,1949		45,45	
		Tu,ka	-19,091	-7,739	0	-1,612	0,388	-35,2916	-32,1438	-29,1526	-30,7438	-30,5526			-35,292
STORY3	B532	Tu,ki	-3,716	-2,578	-0,013	2,335	-0,369	-8,5905	-4,8129	-9,2615	-6,7057	-7,3687	17,024		
		Lap	24,37	10,41	-0,004	0,149	0,106	45,898	39,8348	39,4732	39,8047	39,5033		45,9	
		Tu,ka	-18,265	-7,583	0,005	-2,038	0,581	-34,0483	-31,3647	-27,6373	-29,5314	-29,4706			-34,048
STORY2	B532	Tu,ki	-3,598	-2,583	-0,003	2,118	-0,541	-8,4519	-4,9449	-8,8563	-6,8062	-6,995	17,296		
		Lap	24,28	10,351	-0,003	0,118	-0,09	45,6961	39,578	39,396	39,4324	39,5416		45,7	
		Tu,ka	-18,563	-7,697	-0,002	-1,882	0,362	-34,5918	-31,746	-28,1992	-30,1752	-29,77			-34,592
STORY1	B532	Tu,ki	-3,628	-2,648	-0,001	2,387	-0,419	-8,5909	-4,7403	-9,2629	-6,7045	-7,2987	16,174		
		Lap	24,971	10,49	-0,002	0,29	0,012	46,7482	40,7488	40,1616	40,5542	40,3562		46,75	
		Tu,ka	-17,152	-7,353	-0,002	-1,807	0,443	-32,3482	-29,6095	-26,2613	-28,0345	-27,8363			-32,348

Tabel Momen Rencana Gedung B Balok Arah X Elev 8

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	B495	Tu,ki	-25,879	-5,211	-0,663	19,201	2,166	-39,7239	-16,415	-56,1166	-28,3395	-44,1921	28,058		
		Lap	19,018	3,107	0,978	3,036	0,061	28,2818	28,9829	22,8743	26,9004	24,9568		28,98	
		Tu,ka	-8,807	0,658	-0,707	-13,755	-3,714	-9,8691	-24,7796	4,9588	-17,7509	-2,0699			-56,117
STORY5	B495	Tu,ki	-68,894	-12,21	-0,928	40,415	2,866	-102,666	-53,604	-136,154	-79,8883	-109,869	68,077		
		Lap	72,207	12,245	1,069	2,446	0,059	106,7749	101,3571	96,4297	99,6862	98,1006		106,8	
		Tu,ka	-50,785	-6,619	-0,912	-38,454	-3,991	-71,9884	-107,212	-27,9097	-83,0882	-52,0338			-136,15
STORY4	B495	Tu,ki	-59,043	-14,9	-0,215	66,418	2,514	-94,7927	-18,5754	-152,92	-63,3082	-108,187	76,46		
		Lap	54,589	17,35	0,174	3,69	0,378	93,3538	86,6602	79,0534	84,3418	81,3718		93,35	
		Tu,ka	-47,944	-13,55	0,211	-63,53	-3,215	-79,1041	-135,575	-6,5863	-93,3548	-48,8068			-152,92
STORY3	B495	Tu,ki	-56,954	-14,82	-0,117	88,796	2,865	-92,1073	6,4957	-172,815	-53,656	-112,664	86,408		
		Lap	55,421	17,346	0,104	4,865	0,569	94,3108	88,8869	78,8155	85,8797	81,8227		94,31	
		Tu,ka	-48,521	-13,59	0,126	-85,114	-4,082	-79,911	-158,157	14,5204	-101,434	-42,202			-172,82
STORY2	B495	Tu,ki	-54,147	-14,21	-0,135	102,258	2,676	-87,7799	23,8744	-182,247	-45,833	-112,54	91,124		
		Lap	55,269	17,294	0,107	5,505	0,727	94,0467	89,3399	77,8937	85,9953	81,2383		94,05	
		Tu,ka	-52,069	-14,3	0,13	-98,228	-4,073	-85,3042	-176,237	22,6631	-110,328	-43,2454			-182,25
STORY1	B495	Tu,ki	-43,898	-12,07	-0,043	95,03	1,614	-72,0111	30,7666	-160,262	-34,6246	-94,8706	91,585		
		Lap	55,608	17,434	0,037	5,517	0,694	94,6425	89,8888	78,4384	86,5127	81,8145		94,64	
		Tu,ka	-62,945	-16,31	0,045	-90,414	-3,035	-101,611	-183,171	-0,5215	-122,005	-61,6868			-183,17
STORY6	B496	Tu,ki	-31,835	-2,615	-1,324	26,602	-5,35	-43,048	-15,82	-65,814	-38,1864	-43,4476	40,421		
		Lap	11,315	1,856	0,646	-4,967	-0,126	16,8706	10,4292	20,4388	13,8179	17,0501		20,44	
		Tu,ka	5,025	-0,87	0,343	-36,19	3,096	4,8095	-30,1012	40,4212	-2,601	12,921			-65,814
STORY5	B509	Tu,ki	-30,279	-2,539	-2,055	30,235	-5,345	-41,4247	-10,2423	-67,5053	-35,1483	-42,5993	49,689		
		Lap	34,421	6,22	2,201	-3,875	-0,231	52,3577	43,5809	51,4695	46,1317	48,9187		52,36	
		Tu,ka	-44,557	-9,548	-1,113	-37,21	2,825	-69,3017	-99,3789	-26,6539	-71,3544	-54,6784			-99,379
STORY4	B509	Tu,ki	-33,002	-9,612	0,357	65,577	-3,415	-54,8031	15,3381	-113,767	-32,9563	-65,4725	87,787		
		Lap	55,168	16,685	-0,059	-2,226	1,056	92,8681	80,9774	84,7958	83,2748	82,4984		92,87	
		Tu,ka	-74,62	-18,84	-0,43	-67,875	2,265	-119,895	-175,575	-41,1835	-126,477	-90,2815			-175,57
STORY3	B509	Tu,ki	-41,713	-10,81	0,189	85,287	-3,139	-67,2507	23,4837	-145,207	-38,4145	-83,3087	92,849		
		Lap	54,964	16,442	-0,004	-3,743	0,74	92,262	78,8778	85,9198	82,0159	82,7817		92,26	
		Tu,ka	-66,115	-17,48	-0,123	-89,326	1,473	-107,36	-185,697	-7,9289	-122,138	-71,4882			-185,7
STORY2	B509	Tu,ki	-48,512	-12,44	0,078	98,529	-2,594	-78,0858	27,0924	-168,409	-43,6937	-97,6231	95,368		
		Lap	55,261	16,649	-0,003	-3,972	1,194	92,9501	79,3484	86,576	82,9646	82,9598		92,95	
		Tu,ka	-59,799	-16,18	-0,078	-102,9	0,32	-97,6794	-190,737	14,8672	-118,484	-57,3854			-190,74

Tabel Momen Rencana Gedung B Balok Arah X Elev 8

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	B509	Tu,ki	-59,73	-14,58	0,058	90,623	-1,873	-94,9814	3,8011	-176,321	-60,9461	-111,574	88,161		
		Lap	55,656	16,633	0	-4,12	0,837	93,4	79,5513	87,2891	83,0212	83,8192		93,4	
		Tu,ka	-48,763	-13,4	-0,057	-95,466	-0,009	-79,9857	-167,385	23,5521	-100,565	-43,2678			-176,32
STORY5	B534	Tu,ki	128,23	15,368	2,29	32,892	11,296	179,6098	205,5248	132,9632	190,4076	148,0804	205,52		
		Lap	14,861	1,28	0,174	-3,165	1,57	19,9682	16,4192	21,8072	19,7337	18,4927		46,23	
		Tu,ka	-107,56	-14,18	-2,354	-39,223	-8,155	-152,937	-184,921	-101,582	-163,174	-123,33			-184,92
STORY4	B534	Tu,ki	93,33	17,232	-0,023	-16,361	3,579	139,5557	113,9407	144,5153	127,8987	130,5573	144,52		
		Lap	-14,28	-3,726	-0,025	-36,492	-0,095	-23,1101	-57,3825	15,6585	-31,9046	-9,8194		63,57	
		Tu,ka	-140,33	-28,12	-0,028	-56,623	-3,768	-213,394	-254,264	-138,758	-217,266	-175,756			-254,26
STORY3	B534	Tu,ki	94,74	17,386	0,004	-20,527	4,811	141,5076	111,9903	150,1577	129,7269	132,4211	150,16		
		Lap	-10,901	-3,206	-0,006	-45,944	-0,138	-18,2138	-62,2726	29,6982	-30,2084	-2,366		65,52	
		Tu,ka	-134,98	-27,23	-0,016	-71,362	-5,087	-205,555	-262,096	-116,32	-215,704	-162,713			-262,1
STORY2	B534	Tu,ki	94,967	17,465	0,016	-23,361	5,275	141,9124	109,6469	153,2039	129,6921	133,1587	153,2		
		Lap	-10,261	-2,982	0,017	-52,102	-0,462	-17,0759	-67,5358	36,9454	-31,3878	0,7974		67,57	
		Tu,ka	-133,93	-26,86	0,017	-80,843	-6,199	-203,683	-270,277	-104,872	-218,026	-157,123			-270,28
STORY1	B534	Tu,ki	96,132	17,588	0,001	-20,898	5,005	143,4997	113,5499	152,3429	131,682	134,2108	152,34		
		Lap	-9,021	-2,663	-0,002	-46,595	-0,305	-15,087	-60,1747	33,1983	-27,7717	0,7953		64,86	
		Tu,ka	-132,61	-26,35	-0,005	-72,292	-5,615	-201,289	-259,456	-111,503	-212,782	-158,177			-259,46
STORY5	B541	Tu,ki	-92,193	-12,1	-1,893	40,772	-7,354	-130,943	-84,1688	-161,3	-117,857	-127,612	81,656		
		Lap	-11,328	0,115	-0,338	23,713	-2,84	-13,5786	9,3824	-36,3396	-9,2047	-17,7525		40,33	
		Tu,ka	53,263	10,584	1,067	6,654	1,675	81,3835	81,6561	67,3431	78,1708	70,8284			-161,3
STORY4	B541	Tu,ki	-118,54	-23,71	0,044	57,837	-3,716	-180,164	-109,238	-222,683	-152,326	-179,596	136,33		
		Lap	-10,89	-1,646	0,032	38,515	-1,411	-15,6856	23,3777	-52,8057	-4,5705	-24,8575		55,67	
		Tu,ka	82,457	17,919	0,02	19,194	0,893	127,6288	136,3293	97,4055	123,5186	110,2162			-222,68
STORY3	B541	Tu,ki	-123,64	-24,48	0,056	74,177	-4,031	-187,513	-99,8851	-245,821	-154,631	-191,075	139,51		
		Lap	-14,429	-2,216	0,032	49,551	-1,248	-20,8444	29,6458	-68,7074	-5,9135	-33,1481		61,46	
		Tu,ka	80,479	17,55	0,009	24,925	1,534	124,6593	139,51	88,7396	123,1363	105,1133			-245,82
STORY2	B541	Tu,ki	-126,68	-25,21	-0,018	83,739	-4,017	-192,354	-94,6867	-259,755	-156,116	-198,325	141,65		
		Lap	-16,369	-2,679	-0,006	55,962	-1,085	-23,9322	33,3147	-77,9583	-6,6182	-38,0254		64,94	
		Tu,ka	79,634	17,35	0,006	28,184	1,848	123,3238	141,6492	84,1724	123,214	102,6076			-259,75
STORY1	B541	Tu,ki	-127,23	-25,54	0,011	74,915	-3,637	-193,525	-104,384	-252,032	-159,371	-197,046	138,66		
		Lap	-16,547	-2,949	0,008	50,059	-0,941	-24,5708	26,9713	-72,5821	-8,7287	-36,8821		63,01	
		Tu,ka	79,825	17,142	0,005	25,203	1,755	123,2197	138,6615	87,2025	122,2479	103,6161			-252,03

Tabel Momen Rencana Gedung B Balok Arah X Elev 8

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	B542	Tu,ki	46,862	9,035	1,119	6,985	1,527	71,2499	72,7125	57,8263	68,8919	61,6469	99,209		
		Lap	63,218	7,67	1,283	-11,203	5,584	88,7751	74,0038	93,0594	85,7547	81,3085		93,06	
		Tu,ka	57,281	3,974	1,248	-29,39	9,641	75,7196	46,2135	99,2089	73,5352	71,8872			46,2135
STORY4	B542	Tu,ki	79,578	16,558	0,02	19,695	0,899	121,9964	132,0163	92,0869	118,8591	105,2441	147,36		
		Lap	96,372	18,586	0,002	0,447	2,212	145,385	135,343	133,1218	136,5785	131,8863		145,4	
		Tu,ka	93,612	17,286	-0,016	-18,801	3,525	139,984	111,8769	147,3639	127,5051	131,7357			92,0869
STORY3	B542	Tu,ki	77,489	16,181	0,015	25,531	1,527	118,8839	135,1569	83,1787	118,3541	99,9815	153,61		
		Lap	96,043	18,473	0,002	1,003	3,108	144,8094	135,66	131,7892	137,1335	130,3157		144,8	
		Tu,ka	95,043	17,437	-0,011	-23,525	4,689	141,9453	109,3703	153,6069	129,1201	133,8571			83,1787
STORY2	B542	Tu,ki	76,493	15,945	0,006	28,888	1,832	117,3066	137,1742	78,299	118,235	97,2382	157,52		
		Lap	95,842	18,443	0,013	1,101	3,487	144,5257	135,6005	131,3063	137,2707	129,6361		144,5	
		Tu,ka	95,637	17,613	0,02	-26,687	5,141	142,9552	107,2327	157,5221	129,5123	135,2425			78,299
STORY1	B542	Tu,ki	76,598	15,728	0,006	25,795	1,736	117,0854	133,9614	81,3298	117,1201	98,1711	155,94		
		Lap	96,349	18,358	0,003	0,957	3,294	144,9931	135,922	132,0316	137,5579	130,3957		145	
		Tu,ka	96,547	17,658	0	-23,881	4,853	144,1092	111,0893	155,9395	131,2031	135,8257			81,3298

Tabel Momen Rencana Gedung A Balok Arah Y Elev E

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	MD+1,6ML+0,3Ex	MD+1ML+1Ex+	MD+1ML-1Ex-	MD+1ML+0,3Ex	MD+1ML-0,3Ex	M+	Mlap	M-
STORY4	B27	Tu,ki	-72,955	-18,307	-0,5	0,514	54,229	-117,0872	-89,0703	-122,6357	-51,4698	-160,2362	80,1181		
		Lap	57,767	17,769	-0,019	0,022	2,12	97,7413	87,7474	86,4314	89,216	84,9628		97,7413	
		Tu,ka	-46,341	-11,979	0,446	-0,49	-51,233	-74,5526	-83,4481	-51,7283	-118,9682	-16,2082			-160,2362
STORY3	B27	Tu,ki	-68,012	-17,527	-0,182	0,191	88,96	-109,7486	-72,2624	-126,0204	-10,1241	-188,1587	94,07935		
		Lap	58,802	17,765	0,008	0,005	3,58	98,9904	89,4064	87,2484	91,9089	84,7459		98,9904	
		Tu,ka	-49,06	-12,76	0,194	-0,176	-83,65	-79,191	-96,903	-46,361	-155,3348	12,0708			-188,1587
STORY2	B27	Tu,ki	-62,095	-16,242	-0,154	-0,03	111,905	-100,5782	-57,2145	-124,2975	21,14	-202,652	101,326		
		Lap	58,653	17,746	0	-0,006	4,278	98,7772	89,407	86,8522	92,4058	83,8534		98,7772	
		Tu,ka	-55,33	-14,081	0,151	0,042	-105,613	-88,8501	-112,1189	-48,8351	-186,0774	25,1234			-202,652
STORY1	B27	Tu,ki	-48,749	-13,349	-0,072	-0,277	107,975	-79,8932	-39,7323	-103,9633	36,0441	-179,7397	100,4088		
		Lap	58,292	17,824	0,001	-0,028	4,508	98,4693	89,0988	86,45	92,274	83,2748		98,4693	
		Tu,ka	-69,238	-16,803	0,072	0,287	-101,015	-109,9344	-129,9061	-69,8711	-200,8175	1,0403			-200,8175
STORY4	B28	Tu,ki	-164,346	-30,891	-0,027	0,421	48,714	-246,6543	-213,071	-243,1414	-179,2659	-276,9465	138,4733		
		Lap	125,69	22,732	-0,01	0,157	17,446	187,1942	178,9508	168,1692	191,0531	156,0669		191,053	
		Tu,ka	-163,735	-30,696	-0,043	-0,434	-48,715	-245,6171	-242,2265	-212,1295	-276,0232	-178,3328			-276,9465
STORY3	B28	Tu,ki	-165,523	-30,916	0,014	0,177	73,446	-248,0862	-207,3328	-251,7544	-156,0445	-303,0427	151,5214		
		Lap	124,597	22,659	0,024	0,056	26,288	185,7828	180,1178	164,233	198,4802	145,8706		198,48	
		Tu,ka	-164,578	-30,758	0,018	-0,165	-73,447	-246,6974	-250,4507	-206,0525	-301,7481	-154,7551			-303,0427
STORY2	B28	Tu,ki	-165,791	-30,968	0,003	0,007	89,53	-248,4965	-203,0512	-256,7832	-140,3851	-319,4493	159,7247		
		Lap	124,001	22,524	0,012	-0,009	32,036	184,8456	180,927	161,7234	203,3585	139,2919		203,359	
		Tu,ka	-165,159	-30,886	0,006	0,028	-89,535	-247,6054	-255,9093	-202,2443	-318,6034	-139,5502			-319,4493
STORY1	B28	Tu,ki	-164,261	-30,813	0,002	-0,158	82,796	-246,413	-203,2454	-252,607	-145,1776	-310,6748	155,3374		
		Lap	124,589	22,525	0,006	0,041	29,618	185,5498	180,9582	163,1054	201,6621	142,4015		201,662	
		Tu,ka	-164,041	-30,808	0,004	0,239	-82,803	-246,14	-252,2591	-203,0553	-310,3885	-144,9259			-310,6748
STORY4	B29	Tu,ki	-46,853	-12,179	0,465	0,498	51,242	-75,4775	-52,532	-84,2732	-17,0112	-119,794	79,71765		
		Lap	57,765	17,773	-0,02	-0,014	-1,559	97,7448	86,6093	87,5727	85,5278	88,6542		97,7448	
		Tu,ka	-72,444	-18,091	-0,521	-0,525	-54,254	-116,1389	-121,825	-88,2226	-159,4353	-50,6123			-159,4353
STORY3	B29	Tu,ki	-50,084	-12,923	0,186	0,187	83,637	-80,6846	-47,7457	-98,3019	10,6693	-156,7169	93,2913		
		Lap	58,856	17,77	0,008	-0,009	-2,664	99,0632	87,589	89,2054	85,7305	91,0639		99,0632	
		Tu,ka	-66,863	-17,341	-0,173	-0,19	-88,949	-108,0677	-124,4513	-70,7019	-186,5826	-8,5706			-186,5826
STORY2	B29	Tu,ki	-55,957	-14,157	0,146	-0,023	105,603	-89,7266	-49,6475	-112,9633	24,2907	-186,9015	100,8501		
		Lap	58,653	17,748	0	-0,008	-3,134	98,7804	87,1834	89,0798	84,9952	91,268		98,7804	
		Tu,ka	-61,38	-16,151	-0,149	0,036	-111,904	-99,5721	-123,3422	-56,2718	-201,7002	22,0862			-201,7002
STORY1	B29	Tu,ki	-69,462	-16,797	0,069	-0,242	101,005	-110,1951	-70,0919	-130,2109	0,781	-201,0838	100,5419		
		Lap	58,316	17,824	0,001	-0,007	-3,414	98,4981	86,772	88,8344	84,3871	91,2193		98,4981	
		Tu,ka	-48,494	-13,348	-0,069	0,295	-107,97	-79,5841	-103,6368	-39,4448	-179,4223	36,3407			-201,0838

Tabel Momen Rencana Gedung A Balok Arah Y Elev E

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	MD+1,6ML+0,3D	D+1ML+1Ex+	D+1ML-1Ex-	D+1ML+0,3Ex	D+1ML-0,3Ex	M+	Mlap	M-
STORY5	B417	Tu,ki	-47,592	-9,6	-1,032	0,513	24,706	-72,9864	-58,7856	-74,6352	-41,8505	-91,5703	45,78515		
		Lap	42,857	7,251	2,203	0,053	1,926	64,1315	59,3102	58,0486	60,6213	56,7375		64,1315	
		Tu,ka	-19,295	-2,247	-2,445	-0,482	-21,404	-27,9717	-32,3042	-18,4978	-46,9496	-3,8524			-91,5703
STORY5	B418	Tu,ki	-19,375	-2,432	-2,415	0,445	21,284	-28,3487	-18,8518	-32,5122	-4,2645	-47,0995	45,7376		
		Lap	43,375	7,337	2,222	-0,03	-1,611	64,9002	58,8737	59,9003	57,767	61,007		64,9002	
		Tu,ka	-47,752	-9,459	-1,088	-0,506	-24,562	-72,9808	-74,636	-58,8868	-91,4752	-42,0476			-91,4752
STORY5	B466	Tu,ki	-70,307	-11,645	-3,536	0,342	24,024	-104,7684	-88,4642	-103,5626	-71,8868	-120,14	60,125		
		Lap	56,804	9,887	2,806	0,174	8,64	85,387	80,8178	75,2858	86,744	69,3596		86,744	
		Tu,ka	-70,469	-11,525	-3,574	-0,424	-24,035	-104,7898	-103,7223	-88,4533	-120,25	-71,9256			-120,25

Tabel Momen Rencana Gedung A Balok Arah X Elev 5

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	ME _x	ME _y	MD+1,6ML+0,3Ex	MD+1ML+1Ex+0,3Ey	MD+1ML-1Ex	MD+1ML+0,3Ex	MD+1ML-0,3Ex	M+	M _{lap}	M-
STORY4	B11	Tu,ki	-202,327	-33,712	-0,709	57,624	3,01	-297,0861	-217,9774	-335,0314	-256,2072	-296,8016	167,5157		
		Lap	211,734	34,261	-0,185	2,571	-3,967	308,8059	289,7227	286,9609	285,1461	291,5375		308,8059	
		Tu,ka	-199,178	-32,605	0,411	-52,978	2,934	-290,9761	-323,7164	-219,5208	-284,578	-258,6592			-335,0314
STORY3	B11	Tu,ki	-196,738	-32,698	-0,125	89,865	6,259	-288,4649	-177,0409	-360,5263	-235,5651	-302,0021	180,2632		
		Lap	212,48	34,479	0,015	4,407	-7,315	310,1499	291,6675	287,2425	283,4621	295,4479		310,1499	
		Tu,ka	-204,363	-33,454	0,228	-82,284	4,807	-298,648	-359,5315	-197,8477	-298,5678	-258,8114			-360,5263
STORY2	B11	Tu,ki	-191,997	-31,494	-0,154	111,581	8,656	-280,8638	-147,7126	-376,0682	-219,7601	-304,0207	194,9745		
		Lap	212,566	34,531	-0,018	5,394	-9,657	310,3198	292,1071	287,1133	281,5714	297,649		310,3198	
		Tu,ka	-211,751	-35,059	0,162	-102,608	6,064	-310,1146	-389,949	-188,3714	-313,8786	-264,4418			-389,949
STORY 1	B11	Tu,ki	-174,311	-27,95	-0,066	111,821	8,438	-253,9262	-122,7708	-351,4756	-195,1389	-279,1075	203,6198		
		Lap	216,022	35,194	-0,004	6,1	-9,619	315,5348	297,6347	291,2061	286,6314	302,2094		315,5348	
		Tu,ka	-224,666	-38,039	0,08	-101,402	6,002	-330,4216	-407,2396	-208,0368	-332,0568	-283,2196			-407,2396
STORY4	B12	Tu,ki	-211,318	-41,4	0,183	52,226	1,176	-319,7301	-242,4028	-347,5604	-278,1378	-311,8254	173,7802		
		Lap	192,394	38,356	0,004	0,373	-1,108	292,2444	269,2694	269,1882	268,2327	270,2249		292,2444	
		Tu,ka	-209,347	-41,147	-0,031	-52,192	1,039	-317,0671	-344,2437	-240,4831	-306,982	-277,7448			-347,5604
STORY3	B12	Tu,ki	-211,528	-41,579	-0,015	78,89	3,296	-320,3675	-215,5338	-375,2914	-268,4496	-322,3756	187,6457		
		Lap	192,434	38,304	-0,013	0,428	-2,301	292,2007	268,9625	269,4871	267,0522	271,3974		292,2007	
		Tu,ka	-210,155	-41,293	0,038	-79,171	1,208	-318,2358	-372,2876	-214,6704	-316,0223	-270,9357			-375,2914
STORY2	B12	Tu,ki	-211,272	-41,469	0,018	97,416	4,866	-319,8678	-196,1196	-393,8712	-260,9046	-329,0862	196,9356		
		Lap	192,728	38,351	-0,004	0,534	-3,147	292,6332	269,2145	270,0347	266,6378	272,6114		292,6332	
		Tu,ka	-211,456	-41,624	0,015	-97,762	1,263	-320,3381	-392,7543	-197,9881	-323,4368	-267,3056			-393,8712
STORY 1	B12	Tu,ki	-213,878	-41,625	-0,004	94,313	5,115	-323,2516	-202,4311	-394,1261	-264,8697	-331,6875	197,0631		
		Lap	192,921	38,448	-0,003	0,376	-3,235	293,0205	269,3587	270,5477	266,831	273,0754		293,0205	
		Tu,ka	-212,095	-42,006	0,01	-94,946	1,266	-321,7186	-391,0862	-201,9538	-323,7378	-269,3022			-394,1261
STORY4	B13	Tu,ki	-213,089	-42,517	-0,03	52,072	1,023	-323,749	-245,8449	-350,6027	-281,5792	-314,8684	175,3014		
		Lap	190,474	37,503	-0,028	0,548	-1,163	288,5596	266,2709	265,8727	265,0732	267,0704		288,5596	
		Tu,ka	-208,668	-40,928	0,124	-52,06	0,942	-315,8244	-343,107	-239,5522	-306,0056	-276,6536			-350,6027
STORY3	B13	Tu,ki	-212,209	-42,377	-0,039	79,222	2,805	-322,4735	-216,9643	-377,0913	-270,4562	-323,5994	188,5457		
		Lap	190,857	37,602	-0,014	0,778	-2,333	289,1846	266,7085	266,5523	264,5308	268,73		289,1846	
		Tu,ka	-210,13	-41,088	0,064	-79,055	1,137	-317,8648	-371,9579	-214,5301	-315,8235	-270,6645			-377,0913
STORY2	B13	Tu,ki	-211,19	-42,174	-0,025	98,034	4,111	-320,9189	-196,3347	-394,8693	-262,0808	-329,1232	197,4347		
		Lap	191,362	37,687	-0,01	0,809	-3,159	289,9286	267,1827	267,4601	264,4051	270,2377		289,9286	
		Tu,ka	-211,884	-41,486	0,049	-98,003	1,216	-320,6139	-393,385	-198,1086	-323,9317	-267,5619			-394,8693
STORY 1	B13	Tu,ki	-210,237	-41,932	-0,013	95,682	4,209	-319,3821	-197,2717	-391,1611	-261,3028	-327,13	197,9609		
		Lap	192,283	37,835	-0,005	0,645	-3,272	291,2731	268,238	268,9112	265,4961	271,6531		291,2731	
		Tu,ka	-215,175	-42,26	0,024	-95,83	1,261	-325,814	-395,9217	-205,0183	-327,958	-272,982			-395,9217
STORY4	B14	Tu,ki	-225,241	-44,156	0,145	55,553	0,88	-340,8663	-258,6282	-370,2622	-296,8993	-331,9911	185,1311		
		Lap	209,762	41,987	-0,053	0,459	-1,185	318,8671	293,8049	293,5979	292,6541	294,7487		318,8671	
		Tu,ka	-184,724	-36,873	-0,199	-53,963	1,267	-280,7651	-312,1247	-204,9589	-273,4637	-243,6199			-370,2622
STORY3	B14	Tu,ki	-223,432	-44,139	0,036	81,142	2,502	-338,7228	-230,3648	-394,15	-285,4128	-339,102	197,075		
		Lap	209,459	41,843	0,021	1,216	-2,121	318,3101	293,7735	292,6141	291,4376	294,95		318,3101	
		Tu,ka	-188,691	-37,444	0,043	-78,011	1,354	-286,3181	-341,478	-186,2684	-285,9225	-241,8239			-394,15

Tabel Momen Rencana Gedung A Balok Arah X Elev 5

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana		
			MD	ML	MR	MEx	MEy	MD+1,6ML+0,3Ex	MD+1ML+1Ex+0,3Ey	MD+1ML-1Ex-0,3Ey	MD+1ML+0,3Ex+MEy	MD+1ML-0,3Ex+MEy	M+	Mlap	M-
STORY2	B14	Tu,ki	-222,985	-44,301	0,033	98,248	3,684	-338,4471	-212,5298	-411,2362	-278,7246	-345,0414	205,6181		
		Lap	209,06	41,758	0,005	2,084	-2,731	317,6873	293,8947	291,3653	290,5242	294,7358		317,6873	
		Tu,ka	-191,27	-37,725	0,002	-93,339	1,323	-289,883	-360,1911	-174,3069	-293,9277	-240,5703			-411,2362
STORY 1	B14	Tu,ki	-224,862	-44,893	0,016	93,794	3,734	-341,6552	-219,8132	-409,6416	-282,8552	-346,5996	204,8208		
		Lap	210,039	41,954	0,003	2,774	-2,666	319,1747	295,975	292,0266	292,167	295,8346		319,1747	
		Tu,ka	-189,827	-37,19	0,004	-87,44	1,248	-287,2944	-352,048	-177,9168	-289,9664	-239,9984			-409,6416
STORY6	B15	Tu,ki	-10,66	-0,989	-0,702	16,525	-0,347	-14,7254	2,6399	-30,2019	-9,1705	-18,3915	18,9326		
		Lap	32,616	5,547	1,816	0,664	0,504	48,9224	45,5014	43,871	45,3894	43,983		48,9224	
		Tu,ka	-15,994	-3,372	-0,339	-15,307	0,022	-24,7575	-37,8652	-7,2644	-27,1349	-17,9947			-37,8652
STORY4	B15	Tu,ki	-16,323	-1,108	0,913	51,363	1,274	-20,9039	31,0496	-72,4408	-4,0127	-37,3785	77,3891		
		Lap	21,544	1,029	0,131	-4,346	-2,385	27,5647	21,8203	31,9433	23,193	30,5706		38,69455	
		Tu,ka	-68,905	-12,923	-0,624	-59,576	1,356	-103,6748	-154,7782	-36,4398	-112,1258	-79,0922			-154,7782
STORY3	B15	Tu,ki	-22,907	-2,224	0,315	98,231	3,222	-30,8893	69,4852	-128,91	2,9789	-62,4037	95,7564		
		Lap	23,859	1,569	-0,022	-6,854	-3,609	31,1302	22,2631	38,1365	24,5346	35,865		47,8782	
		Tu,ka	-58,431	-10,843	-0,352	-110,72	0,558	-87,642	-191,5128	29,5924	-113,6182	-48,3022			-191,5128
STORY2	B15	Tu,ki	-34,11	-4,696	0,247	132,238	4,686	-48,3221	88,0158	-179,2718	-1,2706	-89,9854	106,4305		
		Lap	23,791	1,591	0,003	-8,127	-4,38	31,0963	20,6992	39,5812	23,3221	36,9583		53,21525	
		Tu,ka	-48,005	-8,475	-0,235	-146,732	-0,16	-71,2835	-212,861	80,699	-110,2606	-21,9014			-212,861
STORY 1	B15	Tu,ki	-59,802	-10,228	-0,116	135,009	4,623	-88,0692	54,4055	-218,3863	-36,8647	-127,1161	114,2039		
		Lap	22,092	1,165	-0,001	-8,822	-4,104	28,3739	17,6222	37,7286	20,9248	34,426		54,596575	
		Tu,ka	-27,169	-4,1	-0,115	-150,745	-0,539	-39,2203	-187,6095	114,2039	-82,4653	9,0597			-218,3863
STORY5	B403	Tu,ki	-108,866	-18,635	-3,392	27,35	0,628	-162,1512	-121,7358	-176,8126	-140,4412	-158,1072	88,4063		
		Lap	119,262	18,62	5,853	1,755	-0,519	175,8329	163,3337	160,1351	161,7419	161,7269		175,8329	
		Tu,ka	-107,084	-13,939	-6,196	-23,357	1,655	-153,9012	-165,3003	-119,5793	-147,7919	-137,0877			-176,8126
STORY5	B404	Tu,ki	-114,858	-17,625	-5,657	23,601	0,744	-168,8581	-131,6304	-179,2788	-147,6303	-163,2789	89,6394		
		Lap	93,072	14,725	4,428	12,244	-0,321	137,4604	138,5591	114,2637	129,7636	123,0592		138,5591	
		Tu,ka	-105,502	-15,822	-4,968	-23,611	0,746	-154,4016	-165,8116	-119,0372	-148,7617	-136,0871			-179,2788
STORY5	B405	Tu,ki	-108,218	-17,082	-4,944	22,6	0,111	-159,6648	-124,3103	-169,5769	-140,0526	-153,8346	84,78845		
		Lap	91,314	14,904	4,557	0,951	-0,255	135,7017	125,3553	123,6063	124,5111	124,4505		135,7017	
		Tu,ka	-105,184	-15,772	-5,277	-21,381	0,412	-154,0945	-163,2502	-120,7354	-147,9951	-135,9905			-169,5769
STORY5	B406	Tu,ki	-115,874	-17,094	-5,503	29,281	-0,137	-169,1507	-126,9029	-185,3827	-147,4955	-164,7901	92,69135		
		Lap	107,492	17,118	5,238	-2,973	-0,389	158,9982	143,0187	149,1981	144,8275	147,3893		158,9982	
		Tu,ka	-85,588	-13,287	-3,873	-33,546	0,873	-125,9013	-149,2767	-82,7085	-125,1834	-106,8018			-185,3827
STORY5	B407	Tu,ki	-15,774	2,273	-1,755	22,552	0,166	-16,1695	5,946	-39,2576	-9,7242	-23,5874	52,0544		
		Lap	41,848	4,081	-0,832	-3,571	-1,273	56,3312	50,3457	58,2515	51,9543	56,6429		58,2515	
		Tu,ka	-53,935	-10,196	0,052	-29,531	1,134	-81,0096	-104,1088	-45,7272	-82,6433	-67,1927			-104,1088

GRAPHS OF 2 -ton OCPT

PT. PETROSOL

CLIENT : PT. KIEC
PROJECT : RENCANA HOTEL PERMATA
LOCATION : Lapangan Golf - Cilegon
POINT : 5 - 7
GROUND WATER LEVEL : -
ELEVATION : -

COORDINATES : N
E
DATE : Sept, 10 . 2002
OPERATOR : ldot R
RECORDED : Tonny

