

LAMPIRAN

Lampiran 1 : Perhitungan Volume

Rekap Perhitungan Pekerjaan Kolom					
No	Uraian	Beton M ³	Bekisting M ²	Pembesian Kg	Rasio Kg/M ³
1	Lantai 1	215,18	1243,80	54669,75	254,07
2	Lantai 2	189,02	1106,70	44689,32	236,43
3	Lantai 3	140,22	752,29	34777,86	248,02
4	Lantai 4	122,50	649,85	28290,08	230,93
5	Lantai 5	117,71	616,95	27116,43	230,37
6	Lantai 6	117,71	616,95	27116,43	230,37
7	Lantai 7	117,71	616,95	27116,43	230,37
8	Lantai 8	117,71	616,95	27116,43	230,37
9	Lantai 9	117,71	616,95	27116,43	230,37
10	Lantai 10	100,88	575,55	24503,35	242,90
11	Lantai 11	100,88	575,55	30798,18	305,30
12	Lantai 12	100,88	575,55	30798,18	305,30
13	Lantai 13	100,88	575,55	30798,18	305,30
14	Lantai 14	100,88	575,55	30798,18	305,30
15	Lantai 15	100,88	575,55	30798,18	305,30
16	Lantai 16	100,88	575,55	30798,18	305,30
17	Lantai 17	100,88	575,55	30798,18	305,30
18	Lantai 18	100,88	575,55	30798,18	305,30
19	Lantai 19	71,14	422,50	21368,81	300,39
20	Lantai 20	71,14	422,50	20909,57	293,93
21	Atap	0,86	12,08	230,44	268,46
Total		2306,50	12874,42	611406,82	265,08

Rekap Perhitungan Pekerjaan Balok					
No	Uraian	Beton M ³	Bekisting M ²	Pembesian Kg	Rasio Kg/M ³
1	Lantai 1	213,92	1160,92	45298,01	211,75
2	Lantai 2	317,95	1842,48	68589,75	215,73
3	Lantai 3	90,90	502,86	21899,41	240,92
4	Lantai 4	94,71	526,56	22552,50	238,13
5	Lantai 5	94,71	526,56	22552,50	238,13
6	Lantai 6	94,71	526,56	22552,50	238,13
7	Lantai 7	94,71	526,56	22552,50	238,13
8	Lantai 8	94,71	526,56	22552,50	238,13
9	Lantai 9	94,71	526,56	22552,50	238,13
10	Lantai 10	96,37	535,45	24075,46	249,83
11	Lantai 11	96,37	535,45	23533,05	244,20
12	Lantai 12	96,37	535,45	23533,05	244,20
13	Lantai 13	96,37	535,45	23533,05	244,20
14	Lantai 14	96,37	535,45	23533,05	244,20
15	Lantai 15	96,37	535,45	23533,05	244,20
16	Lantai 16	96,37	535,45	23533,05	244,20
17	Lantai 17	96,37	535,45	23533,05	244,20
18	Lantai 18	96,37	535,45	23533,05	244,20
19	Lantai 19	96,37	535,45	23533,05	244,20
20	Lantai 20	155,85	663,09	30605,78	196,39
21	Atap	146,55	601,13	26727,41	182,38
22	Atap Lift	9,98	64,72	2866,33	287,11
Total		2467,07	13349,04	567174,62	229,90

Rekap Perhitungan Pekerjaan Plat					
No	Uraian	Beton M ³	Bekisting M ²	Pembesian Kg	Rasio Kg/M3
1	Lantai 1	200,82	2601,77	33234,25	165,49
2	Lantai 2	296,64	2447,76	31063,19	104,72
3	Lantai 3	93,37	666,51	9026,49	96,68
4	Lantai 4	81,70	649,47	8973,56	109,84
5	Lantai 5	81,70	649,47	8973,56	109,84
6	Lantai 6	81,70	649,47	8973,56	109,84
7	Lantai 7	81,70	649,47	8973,56	109,84
8	Lantai 8	81,70	649,47	8973,56	109,84
9	Lantai 9	81,70	649,47	8973,56	109,84
10	Lantai 10	81,70	649,47	8973,56	109,84
11	Lantai 11	81,70	649,47	8973,56	109,84
12	Lantai 12	81,70	649,47	8973,56	109,84
13	Lantai 13	81,70	649,47	8973,56	109,84
14	Lantai 14	81,70	649,47	8973,56	109,84
15	Lantai 15	81,70	649,47	8973,56	109,84
16	Lantai 16	81,70	649,47	8973,56	109,84
17	Lantai 17	81,70	649,47	8973,56	109,84
18	Lantai 18	81,70	649,47	8973,56	109,84
19	Lantai 19	81,70	649,47	8973,56	109,84
20	Lantai 20	67,88	528,44	7669,09	112,99
21	Atap	89,61	505,95	7947,15	88,69
22	Atap Lift	3,23	12,67	355,69	110,25
Total		2058,71	17154,61	232872,84	113,12

Rekap Volume Pekerjaan Shearwall					
No	Uraian	Beton M ³	Bekisting M ²	Pembesian Kg	Rasio Kg/M3
1	GWT	14,95	72,83	7.795,02	521,28
2	Lift Pit	9,63	59,29	4.516,81	468,89
3	Lantai 1	71,48	441,47	27.180,48	380,28
4	Lantai 2	71,58	382,89	27.511,73	384,33
5	Lantai 3	71,58	382,89	27.511,73	384,33
6	Lantai 4	64,42	344,60	20.991,41	325,83
7	Lantai 5	64,42	344,60	20.991,41	325,83
8	Lantai 6	64,42	344,60	20.991,41	325,83
9	Lantai 7	64,42	344,60	20.991,41	325,83
10	Lantai 8	64,42	344,60	20.991,41	325,83
11	Lantai 9	64,42	344,60	20.991,41	325,83
12	Lantai 10	64,42	344,60	20.566,29	319,23
13	Lantai 11	64,42	344,60	20.566,29	319,23
14	Lantai 12	64,42	344,60	20.566,29	319,23
15	Lantai 13	64,42	344,60	20.566,29	319,23
16	Lantai 14	64,42	344,60	20.566,29	319,23
17	Lantai 15	64,42	344,60	20.566,29	319,23
18	Lantai 16	64,42	344,60	20.566,29	319,23
19	Lantai 17	64,42	344,60	20.566,29	319,23
20	Lantai 18	71,58	382,89	23.183,01	323,86
21	Lantai 19	71,58	382,89	23.183,01	323,86
22	Lantai 20	71,58	382,89	23.183,01	323,86
23	ATAP	12,68	66,97	6.533,67	515,26
		1.355,92	7.312,46	454.543,59	335,23

Rekap Volume Pekerjaan Tangga					
No	Uraian	Beton M ³	Bekisting M ²	Pembesian Kg	Rasio Kg/M3
1	GWT	4,14	27,33	527,80	127,60
2	Lantai 1	14,75	112,27	1.675,07	113,53
3	Lantai 2	13,69	105,64	1.520,45	111,09
4	Lantai 3	11,75	87,97	1.245,25	105,97
5	Lantai 4	6,89	51,87	675,03	97,94
6	Lantai 5	6,89	51,87	675,03	97,94
7	Lantai 6	6,89	51,87	675,03	97,94
8	Lantai 7	6,89	51,87	675,03	97,94
9	Lantai 8	6,89	51,87	675,03	97,94
10	Lantai 9	6,89	51,87	675,03	97,94
11	Lantai 10	6,89	51,87	675,03	97,94
12	Lantai 11	6,89	51,87	675,03	97,94
13	Lantai 12	6,89	51,87	675,03	97,94
14	Lantai 13	6,89	51,87	675,03	97,94
15	Lantai 14	6,89	51,87	675,03	97,94
16	Lantai 15	6,89	51,87	675,03	97,94
17	Lantai 16	6,89	51,87	675,03	97,94
18	Lantai 17	7,53	56,32	721,06	95,76
19	Lantai 18	11,56	86,81	1.045,17	90,41
20	Lantai 19	11,56	86,81	1.045,17	90,41
21	Lantai 20	11,56	86,81	1.045,17	90,41
		176,13	1.324,22	17.600,47	99,93

Lampiran 2 : Rekapitulasi Volume

REKAPITULASI VOLUME PEKERJAAN STRUKTUR ATAS APARTMENT URBNX											
No	Pekerjaan	Item Pekerjaan									
		Beton (m³)	Bekisting (m²)	Besi (kg)						Rasio Besi (kg/m³)	
				8	10	13	16	19	22		25
	LANTAI 1										
A.	Kolom	215,18	422,50	-	204,191	26.862,555	759,781	7.849,891	-	18.993,333	254,071
B.	Balok	213,92	1160,92	-	20.646,617	2.393,851	-	17.674,957	4.582,586	-	211,755
C.	Plat Lantai	200,82	2601,77	-	29.659,463	1.403,722	-	-	-	-	154,682
D.	Shearwall	71,48	441,47	-	-	13.525,577	-	-	5.212,183	4.438,458	324,254
E.	Tangga	14,75	112,27	994,719	669,632	-	10,722	-	-	-	113,532
	LANTAI 2										
A.	Kolom	189,02	1106,70	-	-	19.134,502	712,294	7.849,891	-	16.992,635	236,430
B.	Balok	317,95	1842,48	-	34.637,994	1.148,134	4.730,059	11.645,175	10.865,670	5.562,719	215,726
C.	Plat Lantai	296,64	2447,76	-	29.659,463	1.403,722	-	-	-	-	104,718
D.	Shearwall	71,58	382,89	-	-	10.834,644	-	-	4.430,678	3.561,250	263,003
E.	Tangga	13,69	105,64	783,63	578,90	0,00	9,11	0,00	0,00	0,00	100,215
	LANTAI 3										
A.	Kolom	140,22	752,29	-	1.833,419	14.869,547	633,487	958,828	-	16.482,575	248,025
B.	Balok	90,90	502,86	-	9.776,905	331,476	-	1.747,672	10.043,359	-	240,917
C.	Plat Lantai	93,37	666,51	-	9.026,492	-	-	-	-	-	96,675
D.	Shearwall	71,48	441,47	-	-	10.834,644	-	-	4.430,678	3.561,250	263,399
E.	Tangga	11,75	87,97	685,567	559,682	-	-	-	-	-	105,968
	LANTAI 4										
A.	Kolom	122,50	649,85	-	486,566	11.459,991	649,148	470,033	-	15.224,344	230,932
B.	Balok	94,71	526,56	-	10.254,797	331,476	-	2.152,512	9.813,715	-	238,134
C.	Plat Lantai	81,70	649,47	-	8.973,562	-	-	-	-	-	109,838
D.	Shearwall	64,42	344,60	-	-	8.921,358	-	-	5.666,887	-	226,439
E.	Tangga	6,89	51,87	378,127	296,899	-	-	-	-	-	97,944
	LANTAI 5										
A.	Kolom	117,71	616,95	-	417,557	11.042,760	649,148	-	-	15.006,969	230,369
B.	Balok	94,71	526,56	-	10.254,797	331,476	-	2.152,512	9.813,715	-	238,134
C.	Plat Lantai	81,70	649,47	-	8.973,562	-	-	-	-	-	109,838
D.	Shearwall	64,42	344,60	-	-	8.921,358	-	-	5.666,887	-	226,439
E.	Tangga	6,89	51,87	378,127	296,899	-	-	-	-	-	97,944
	LANTAI 6										
A.	Kolom	117,71	616,95	-	417,557	11.042,760	649,148	-	-	15.006,969	230,369
B.	Balok	94,71	526,56	-	10.254,797	331,476	-	2.152,512	9.813,715	-	238,134
C.	Plat Lantai	81,70	649,47	-	8.973,562	-	-	-	-	-	109,838
D.	Shearwall	64,42	344,60	-	-	8.921,358	-	-	5.666,887	-	226,439
E.	Tangga	6,89	51,87	378,127	296,899	-	-	-	-	-	97,944
	LANTAI 7										
A.	Kolom	117,71	616,95	-	417,557	11.042,760	649,148	-	-	15.006,969	230,369
B.	Balok	94,71	526,56	-	10.254,797	331,476	-	2.152,512	9.813,715	-	238,134
C.	Plat Lantai	81,70	649,47	-	8.973,562	-	-	-	-	-	109,838
D.	Shearwall	64,42	344,60	-	-	8.921,358	-	-	5.666,887	-	226,439
E.	Tangga	6,89	51,87	378,127	296,899	-	-	-	-	-	97,944
	LANTAI 8										
A.	Kolom	117,71	616,95	-	417,557	11.042,760	649,148	-	-	15.006,969	230,369
B.	Balok	94,71	526,56	-	10.254,797	331,476	-	2.152,512	9.813,715	-	238,134
C.	Plat Lantai	81,70	649,47	-	8.973,562	-	-	-	-	-	109,838
D.	Shearwall	64,42	344,60	-	-	8.921,358	-	-	5.666,887	-	226,439
E.	Tangga	6,89	51,87	378,127	296,899	-	-	-	-	-	97,944
	LANTAI 9										
A.	Kolom	117,71	616,95	-	417,557	11.042,760	649,148	-	-	15.006,969	230,369
B.	Balok	94,71	526,56	-	10.254,797	331,476	-	2.152,512	9.813,715	-	238,134
C.	Plat Lantai	81,70	649,47	-	8.973,562	-	-	-	-	-	109,838
D.	Shearwall	64,42	344,60	-	-	8.921,358	-	-	5.666,887	-	226,439
E.	Tangga	6,89	51,87	378,127	296,899	-	-	-	-	-	97,944
	LANTAI 10										
A.	Kolom	100,88	575,55	-	393,877	9.567,594	649,148	-	-	13.892,729	242,899
B.	Balok	96,37	535,45	-	10.554,521	577,002	542,405	2.019,236	10.382,294	-	249,825
C.	Plat Lantai	81,70	649,47	-	8.973,562	-	-	-	-	-	109,838
D.	Shearwall	64,42	344,60	-	-	9.391,653	-	4.549,261	-	-	216,391
E.	Tangga	6,89	51,87	378,127	296,899	-	-	-	-	-	97,944
	LANTAI 11										
A.	Kolom	100,88	575,55	-	145,028	17.074,617	570,341	-	-	13.008,198	305,299
B.	Balok	96,37	535,45	-	10.554,521	577,002	-	2.019,236	10.382,294	-	244,197
C.	Plat Lantai	81,70	649,47	-	8.973,562	-	-	-	-	-	109,838
D.	Shearwall	64,42	344,60	-	-	9.391,653	-	4.549,261	-	-	216,391
E.	Tangga	6,89	51,87	378,127	296,899	-	-	-	-	-	97,944
	LANTAI 12										
A.	Kolom	100,88	575,55	-	145,03	17.074,62	570,34	-	-	13.008,20	305,299
B.	Balok	96,37	535,45	-	10.554,52	577,00	-	2.019,24	10.382,29	-	244,197
C.	Plat Lantai	81,70	649,47	-	8.973,56	-	-	-	-	-	109,838
D.	Shearwall	64,42	344,60	-	-	9.391,65	-	4.549,26	-	-	216,391
E.	Tangga	6,89	51,87	378,13	296,90	-	-	-	-	-	97,944
	LANTAI 13										
A.	Kolom	100,88	575,55	-	145,03	17.074,62	570,34	-	-	13.008,20	305,299
B.	Balok	96,37	535,45	-	10.554,52	577,00	-	2.019,24	10.382,29	-	244,197
C.	Plat Lantai	81,70	649,47	-	8.973,56	-	-	-	-	-	109,838
D.	Shearwall	64,42	344,60	-	-	9.391,65	-	4.549,26	-	-	216,391
E.	Tangga	6,89	51,87	378,13	296,90	-	-	-	-	-	97,944

	LANTAI 14										
A.	Kolom	100,88	575,55	-	145,03	17.074,62	570,34	-	-	13.008,20	305,299
B.	Balok	96,37	535,45	-	10.554,52	577,00	-	2.019,24	10.382,29	-	244,197
C.	Plat Lantai	81,70	649,47	-	8.973,56	-	-	-	-	-	109,838
D.	Shearwall	64,42	344,60	-	-	9.391,65	-	4.549,26	-	-	216,391
E.	Tangga	6,89	51,87	378,13	296,90	-	-	-	-	-	97,944
	LANTAI 15										
A.	Kolom	100,88	575,55	-	145,03	17.074,62	570,34	-	-	13.008,20	305,299
B.	Balok	96,37	535,45	-	10.554,52	577,00	-	2.019,24	10.382,29	-	244,197
C.	Plat Lantai	81,70	649,47	-	8.973,56	-	-	-	-	-	109,838
D.	Shearwall	64,42	344,60	-	-	9.391,65	-	4.549,26	-	-	216,391
E.	Tangga	6,89	51,87	378,13	296,90	-	-	-	-	-	97,944
	LANTAI 16										
A.	Kolom	100,88	575,55	-	145,03	17.074,62	570,34	-	-	13.008,20	305,299
B.	Balok	96,37	535,45	-	10.554,52	577,00	-	2.019,24	10.382,29	-	244,197
C.	Plat Lantai	81,70	649,47	-	8.973,56	-	-	-	-	-	109,838
D.	Shearwall	64,42	344,60	-	-	9.391,65	-	4.549,26	-	-	216,391
E.	Tangga	6,89	51,87	378,13	296,90	-	-	-	-	-	97,944
	LANTAI 17										
A.	Kolom	100,88	575,55	-	145,03	17.074,62	570,34	-	-	13.008,20	305,299
B.	Balok	96,37	535,45	-	10.554,52	577,00	-	2.019,24	10.382,29	-	244,197
C.	Plat Lantai	81,70	649,47	-	8.973,56	-	-	-	-	-	109,838
D.	Shearwall	64,42	344,60	-	-	9.391,65	-	4.549,26	-	-	216,391
E.	Tangga	7,53	56,32	390,95	330,11	-	-	-	-	-	95,755
	LANTAI 18										
A.	Kolom	100,88	575,55	-	145,03	17.074,62	570,34	-	-	13.008,20	305,299
B.	Balok	96,37	535,45	-	10.554,52	577,00	-	2.019,24	10.382,29	-	244,197
C.	Plat Lantai	81,70	649,47	-	8.973,56	-	-	-	-	-	109,838
D.	Shearwall	71,58	382,89	-	-	10.644,02	-	5.101,42	-	-	219,961
E.	Tangga	11,56	86,81	494,84	550,33	-	-	-	-	-	90,411
	LANTAI 19										
A.	Kolom	71,14	422,50	-	231,40	10.291,75	712,29	-	-	10.133,38	300,387
B.	Balok	96,37	535,45	-	10.554,52	577,00	-	2.019,24	10.382,29	-	244,197
C.	Plat Lantai	81,70	649,47	-	8.973,56	-	-	-	-	-	109,838
D.	Shearwall	71,58	382,89	-	-	10.644,02	-	5.101,42	-	-	219,961
E.	Tangga	11,56	86,81	494,84	550,33	-	-	-	-	-	90,411
	LANTAI 20										
A.	Kolom	71,14	422,50	-	321,604	9.742,296	712,294	-	-	10.133,375	293,932
B.	Balok	155,85	663,09	-	12.879,984	577,002	-	1.461,229	6.945,045	7.281,292	187,009
C.	Plat Lantai	67,88	528,44	-	7.669,089	-	-	-	-	-	112,987
D.	Shearwall	71,58	382,89	-	-	10.644,022	-	5.101,424	-	-	219,961
E.	Tangga	11,56	86,81	494,839	550,326	-	-	-	-	-	90,411
	ATAP										
A.	Kolom	0,86	12,08	-	-	95,813	134,629	-	-	-	268,462
B.	Balok	146,55	601,13	-	11.418,212	824,354	-	258,502	6.945,045	7.281,292	182,376
C.	Plat Lantai	89,61	505,95	-	6.236,073	1.711,076	-	-	-	-	88,686
D.	Shearwall	12,68	66,97	-	-	2.469,796	-	1.923,007	-	-	346,424
	ATAP LIFT										
B.	Balok	9,98	64,72	-	1.378,065	-	-	537,152	951,112	-	287,114
C.	Plat Lantai	3,23	12,67	-	355,686	-	-	-	-	-	110,253

Lampiran 3: Harga Satuan Upah Dan Bahan

Daftar Harga Satuan Upah & Bahan Kota Tangerang 2025				
NO	Uraian Pekerjaan	Up	Kode	Harga Satuan
A.	Upah			
1	Pekerja	OH	L.01	Rp 136.800
2	Tukang Batu	OH	L.02	Rp 155.000
3	Tukang Kayu	OH	L.03	Rp 155.000
4	Tukang Besi	OH	L.04	Rp 155.000
5	Kepala Tukang	OH	L.13	Rp 190.400
6	Mandor	OH	L.14	Rp 209.200
7	Operator Alat Berat	OH	L.16	Rp 270.000
8	Operator Pompa	OH	L.17	Rp 145.000
9	Mekanik Alat Berat	OH	L.18	Rp 235.000
10	Pembantu Operator Alat Berat	OH	L.19	Rp 144.000
11	Pembantu Mekanik Alat Berat	OH	L.20	Rp 144.000
B	Material			
1	Baja Tulangan BJTP 280 polos	KG	1.1.12.01.01.0001	Rp 17.700
2	Baja Tulangan BJTS 420 ulir	KG	1.1.12.01.01.0001	Rp 20.000
3	Kawat Beton	KG	1.1.12.01.01.0001	Rp 34.000
4	Paku Beton	KG	1.1.12.01.01.0002	Rp 48.300
5	Minyak Bekisting	Liter	1.1.12.01.01.0003	Rp 16.800
6	Beton Ready Mix K-350 / fc'30	M3	1.1.12.01.01.0005	Rp 1.388.700
7	Beton Ready Mix K-400 / fc'35	M3	1.1.12.01.01.0006	Rp 1.398.000
8	Beton Ready Mix K-450 / fc' 40	M3	1.1.12.01.01.0007	Rp 1.422.800
9	Beton Ready Mix K-450 / fc' 45	M3	1.1.12.01.01.0008	Rp 1.456.900
11	Kayu Perancah	M3	1.1.12.01.01.0009	Rp 3.550.000
12	Balok Kayu Kelas II	M3	1.1.12.01.01.0010	Rp 6.166.700
13	Plywood 12 mm	Lbr	1.1.12.01.01.0011	Rp 123.000
14	Cerucuk Kayu / Dolken Ø10-12 cm	Batang	1.1.12.01.01.0012	Rp 35.000
15	Cerucuk Kayu / Dolken Ø8-10 cm	Batang	1.1.12.01.01.0013	Rp 31.000
16	Penjaga Jarak Bekisting / Spacer	Buah	1.1.12.01.01.0014	Rp 7.000
C	Peralatan			
1	Concrete Pump	Jam	E.16	Rp 296.800
2	Concrete Vibrator	Jam	E.18	Rp 61.100

Lampiran 4: Analisa Harga Satuan Pekerjaan

Analisa Harga Satuan Pekerjaan APARMENT URBNX Permen PUPR No.8 Tahun 2023					
2.2.1.1	Penulangan 1 KG Baja Tulangan Polos				
No	Uraian Pekerjaan	Satuan	Koefisien	Harga (RP)	Satuan (RP)
A	Tenaga				
1	Pekerja	OH	0,0016	Rp 136.800	Rp 218,88
2	Tukang Besi	OH	0,0016	Rp 155.000	Rp 248,00
3	Kepala Tukang	OH	0,0002	Rp 190.400	Rp 38,08
4	Mandor	OH	0,0002	Rp 209.200	Rp 41,84
Jumlah Harga Tenaga Kerja					Rp 546,80
B	Bahan				
1	Besi Beton Polos	Kg	1,05	Rp 17.700	Rp 18.585,00
2	Kawat Beton	Kg	0,028	Rp 34.000	Rp 952,00
Jumlah Harga Bahan					Rp 19.537,00
C	Peralatan				
Jumlah Harga Alat					
D	Jumlah Harga Tenaga Kerja, Bahan Dan Peralatan (A+B+C)				Rp 20.083,80
E	Biaya Umum dan Keuntungan			15%	Rp 3.012,57
F	Harga Satuan Pekerjaan (D+E)				Rp 23.096,37

2.2.1.2 Penulangan 1 KG Baja Tulangan ulir					
No	Uraian Pekerjaan	Satuan	Koefisien	Harga (RP)	Satuan (RP)
A	Tenaga				
1	Pekerja	OH	0,0016	Rp 136.800	Rp 218,88
2	Tukang Besi	OH	0,0016	Rp 155.000	Rp 248,00
3	Kepala Tukang	OH	0,0002	Rp 190.400	Rp 38,08
4	Mandor	OH	0,0002	Rp 209.200	Rp 41,84
Jumlah Harga Tenaga Kerja					Rp 546,80
B	Bahan				
1	Besi Beton ulir	Kg	1,05	Rp 20.000	Rp 21.000,00
2	Kawat Beton	Kg	0,028	Rp 34.000	Rp 952,00
Jumlah Harga Bahan					Rp 21.952,00
C	Peralatan				
Jumlah Harga Alat					
D	Jumlah Harga Tenaga Kerja, Bahan Dan Peralatan (A+B+C)				Rp 22.498,80
E	Biaya Umum dan Keuntungan			15%	Rp 3.374,82
F	Harga Satuan Pekerjaan (D+E)				Rp 25.873,62

2.2.1.3.4 Pemasangan 1 m2 Bekisting Untuk Kolom Beton Bangunan Gedung					
No	Uraian Pekerjaan	Satuan	Koefisien	Harga (RP)	Satuan (RP)
A	Tenaga				
1	Pekerja	OH	0,660	Rp 136.800	Rp 90.288,00
2	Tukang Kayu	OH	0,330	Rp 155.000	Rp 51.150,00
3	Kepala Tukang	OH	0,033	Rp 190.400	Rp 6.283,20
4	Mandor	OH	0,011	Rp 209.200	Rp 2.301,20
Jumlah Harga Tenaga Kerja					Rp 150.022,40
B	Bahan				
1	Paku 5 -12	Kg	0,400	Rp 48.300	Rp 19.320,00
2	Minyak Bekisting	Liter	0,200	Rp 16.800	Rp 3.360,00
3	Balok Kayu Kelas II	M3	0,005	Rp 6.166.700	Rp 28.675,16
4	Plywood Tebal 12 mm	Lembar	0,127	Rp 123.000	Rp 15.627,15
5	Dolken Kayu 8-10 cm	Batang	0,650	Rp 31.000	Rp 20.150,00
Jumlah Harga Bahan					Rp 87.132,31
C	Peralatan				
Jumlah Harga Alat					
D	Jumlah Harga Tenaga Kerja, Bahan Dan Peralatan (A+B+C)				Rp 237.154,71
E	Biaya Umum dan Keuntungan			15%	Rp 35.573,21
F	Harga Satuan Pekerjaan (D+E)				Rp 272.727,91

2.2.1.3.5 Pemasangan 1 m2 Bekisting Untuk Balok Beton Bangunan Gedung					
No	Uraian Pekerjaan	Satuan	Koefisien	Harga (RP)	Satuan (RP)
A	Tenaga				
1	Pekerja	OH	0,660	Rp 136.800	Rp 90.288,00
2	Tukang Kayu	OH	0,330	Rp 155.000	Rp 51.150,00
3	Kepala Tukang	OH	0,033	Rp 190.400	Rp 6.283,20
4	Mandor	OH	0,011	Rp 209.200	Rp 2.301,20
Jumlah Harga Tenaga Kerja					Rp 150.022,40
B	Bahan				
1	Paku 5 -12	Kg	0,400	Rp 48.300	Rp 19.320,00
2	Minyak Bekisting	Liter	0,200	Rp 16.800	Rp 3.360,00
3	Balok Kayu Kelas II	M3	0,006	Rp 6.166.700	Rp 34.410,19
4	Plywood Tebal 12 mm	Lembar	0,127	Rp 123.000	Rp 15.627,15
5	Dolken Kayu 8-10 cm	Batang	0,650	Rp 31.000	Rp 20.150,00
Jumlah Harga Bahan					Rp 92.867,34
C	Peralatan				
Jumlah Harga Alat					
D	Jumlah Harga Tenaga Kerja, Bahan Dan Peralatan (A+B+C)				Rp 242.889,74
E	Biaya Umum dan Keuntungan			15%	Rp 36.433,46
F	Harga Satuan Pekerjaan (D+E)				Rp 279.323,20

2.2.1.3.6 Pemasangan 1 m2 Bekisting Untuk Plat Lantai Beton Bangunan Gedung					
No	Uraian Pekerjaan	Satuan	Koefisien	Harga (RP)	Satuan (RP)
A	Tenaga				
1	Pekerja	OH	0,660	Rp 136.800	Rp 90.288,00
2	Tukang Kayu	OH	0,330	Rp 155.000	Rp 51.150,00
3	Kepala Tukang	OH	0,033	Rp 190.400	Rp 6.283,20
4	Mandor	OH	0,011	Rp 209.200	Rp 2.301,20
Jumlah Harga Tenaga Kerja					Rp 150.022,40
B	Bahan				
1	Paku 5 -12	Kg	0,400	Rp 48.300	Rp 19.320,00
2	Minyak Bekisting	Liter	0,200	Rp 16.800	Rp 3.360,00
3	Balok Kayu Kelas II	M3	0,005	Rp 6.166.700	Rp 28.675,16
4	Plywood Tebal 12 mm	Lembar	0,127	Rp 123.000	Rp 15.627,15
5	Dolken Kayu 8-10 cm	Batang	1,950	Rp 31.000	Rp 60.450,00
Jumlah Harga Bahan					Rp 127.432,31
C	Peralatan				
Jumlah Harga Alat					
D	Jumlah Harga Tenaga Kerja, Bahan Dan Peralatan (A+B+C)				Rp 277.454,71
E	Biaya Umum dan Keuntungan			15%	Rp 41.618,21
F	Harga Satuan Pekerjaan (D+E)				Rp 319.072,91

2.2.1.3.7 Pemasangan 1 m2 Bekisting Untuk Dinding Shearwall Beton Bangunan Gedung					
No	Uraian Pekerjaan	Satuan	Koefisien	Harga (RP)	Satuan (RP)
A	Tenaga				
1	Pekerja	OH	0,660	Rp 136.800	Rp 90.288,00
2	Tukang Kayu	OH	0,330	Rp 155.000	Rp 51.150,00
3	Kepala Tukang	OH	0,033	Rp 190.400	Rp 6.283,20
4	Mandor	OH	0,011	Rp 209.200	Rp 2.301,20
Jumlah Harga Tenaga Kerja					Rp 150.022,40
B	Bahan				
1	Paku 5 -12	Kg	0,400	Rp 48.300	Rp 19.320,00
2	Minyak Bekisting	Liter	0,200	Rp 16.800	Rp 3.360,00
3	Balok Kayu Kelas II	M3	0,006	Rp 6.166.700	Rp 37.000,20
4	Plywood Tebal 12 mm	Lembar	0,127	Rp 123.000	Rp 15.627,15
5	Dolken Kayu 8-10 cm	Batang	0,975	Rp 31.000	Rp 30.225,00
6	Pengaja Jarak Beskiting / Spacer	Buah	4,000	Rp 7.000	Rp 28.000,00
Jumlah Harga Bahan					Rp 133.532,35
C	Peralatan				
Jumlah Harga Alat					
D	Jumlah Harga Tenaga Kerja, Bahan Dan Peralatan (A+B+C)				Rp 283.554,75
E	Biaya Umum dan Keuntungan			15%	Rp 42.533,21
F	Harga Satuan Pekerjaan (D+E)				Rp 326.087,96

2.2.1.3.8 Pemasangan 1 m2 Bekisting Untuk Tangga Beton Bangunan Gedung					
No	Uraian Pekerjaan	Satuan	Koefisien	Harga (RP)	Satuan (RP)
A	Tenaga				
1	Pekerja	OH	0,660	Rp 136.800	Rp 90.288,00
2	Tukang Kayu	OH	0,330	Rp 155.000	Rp 51.150,00
3	Kepala Tukang	OH	0,033	Rp 190.400	Rp 6.283,20
4	Mandor	OH	0,011	Rp 209.200	Rp 2.301,20
Jumlah Harga Tenaga Kerja					Rp 150.022,40
B	Bahan				
1	Paku 5 -12	Kg	0,400	Rp 48.300	Rp 19.320,00
2	Minyak Bekisting	Liter	0,150	Rp 16.800	Rp 2.520,00
3	Balok Kayu Kelas II	M3	0,005	Rp 6.166.700	Rp 30.833,50
4	Plywood Tebal 12 mm	Lembar	0,127	Rp 123.000	Rp 15.627,15
5	Dolken Kayu 8-10 cm	Batang	0,650	Rp 31.000	Rp 20.150,00
Jumlah Harga Bahan					Rp 88.450,65
C	Peralatan				
Jumlah Harga Alat					
D	Jumlah Harga Tenaga Kerja, Bahan Dan Peralatan (A+B+C)				Rp 238.473,05
E	Biaya Umum dan Keuntungan			15%	Rp 35.770,96
F	Harga Satuan Pekerjaan (D+E)				Rp 274.244,01

2.2.1.6 1M3 Beton Ready Mix Fc 30 Mpa					
No	Uraian Pekerjaan	Satuan	Koefisien	Harga (RP)	Satuan (RP)
A	Tenaga				
1	Pekerja	OH	0,400	Rp 136.800	Rp 54.720,00
2	Tukang Batu	OH	0,100	Rp 155.000	Rp 15.500,00
3	Kepala Tukang	OH	0,010	Rp 190.400	Rp 1.904,00
4	Mandor	OH	0,040	Rp 209.200	Rp 8.368,00
Jumlah Harga Tenaga Kerja					Rp 80.492,00
B	Bahan				
1	Beton Ready Mixed Fc 30 Mpa	M3	1,02	Rp 1.388.700	Rp 1.416.474,00
Jumlah Harga Bahan					Rp 1.416.474,00
C	Peralatan				
1	Concrete Pump	Jam	0,25	Rp 296.800	Rp 74.200,00
2	Concrete Vibrator	Jam	0,15	Rp 61.100	Rp 9.165,00
Jumlah Harga Alat					Rp 83.365,00
D	Jumlah Harga Tenaga Kerja, Bahan Dan Peralatan (A+B+C)				Rp 1.580.331,00
E	Biaya Umum dan Keuntungan			15%	Rp 237.049,65
F	Harga Satuan Pekerjaan (D+E)				Rp 1.817.380,65

2.2.1.6 1M3 Beton Ready Mix Fc 35 Mpa					
No	Uraian Pekerjaan	Satuan	Koefisien	Harga (RP)	Satuan (RP)
A	Tenaga				
1	Pekerja	OH	0,400	Rp 136.800	Rp 54.720,00
2	Tukang Batu	OH	0,100	Rp 155.000	Rp 15.500,00
3	Kepala Tukang	OH	0,010	Rp 190.400	Rp 1.904,00
4	Mandor	OH	0,040	Rp 209.200	Rp 8.368,00
Jumlah Harga Tenaga Kerja					Rp 80.492,00
B	Bahan				
1	Beton Ready Mixed	M3	1,02	Rp 1.398.000	Rp 1.425.960,00
Jumlah Harga Bahan					Rp 1.425.960,00
C	Peralatan				
1	Concrete Pump	Jam	0,25	Rp 296.800	Rp 74.200,00
2	Vibrator Beton	Jam	0,15	Rp 61.100	Rp 9.165,00
Jumlah Harga Alat					Rp 83.365,00
D	Jumlah Harga Tenaga Kerja, Bahan Dan Peralatan (A+B+C)				Rp 1.589.817,00
E	Biaya Umum dan Keuntungan			15%	Rp 238.472,55
F	Harga Satuan Pekerjaan (D+E)				Rp 1.828.289,55

2.2.1.6 1M3 Beton Ready Mix Fc 40 Mpa					
No	Uraian Pekerjaan	Satuan	Koefisien	Harga (RP)	Satuan (RP)
A	Tenaga				
1	Pekerja	OH	0,400	Rp 136.800	Rp 54.720,00
2	Tukang Batu	OH	0,100	Rp 155.000	Rp 15.500,00
3	Kepala Tukang	OH	0,010	Rp 190.400	Rp 1.904,00
4	Mandor	OH	0,040	Rp 209.200	Rp 8.368,00
Jumlah Harga Tenaga Kerja					Rp 80.492,00
B	Bahan				
1	Beton Ready Mixed	M3	1,02	Rp 1.422.800	Rp 1.451.256,00
Jumlah Harga Bahan					Rp 1.451.256,00
C	Peralatan				
1	Concrete Pump	Jam	0,25	Rp 296.800	Rp 74.200,00
2	Vibrator Beton	Jam	0,15	Rp 61.100	Rp 9.165,00
Jumlah Harga Alat					Rp 83.365,00
D	Jumlah Harga Tenaga Kerja, Bahan Dan Peralatan (A+B+C)				Rp 1.615.113,00
E	Biaya Umum dan Keuntungan			15%	Rp 242.266,95
F	Harga Satuan Pekerjaan (D+E)				Rp 1.857.379,95

2.2.1.6 1M3 Beton Ready Mix Fc 45 Mpa					
No	Uraian Pekerjaan	Satuan	Koefisien	Harga (RP)	Satuan (RP)
A	Tenaga				
1	Pekerja	OH	0,400	Rp 136.800	Rp 54.720,00
2	Tukang Batu	OH	0,100	Rp 155.000	Rp 15.500,00
3	Kepala Tukang	OH	0,010	Rp 190.400	Rp 1.904,00
4	Mandor	OH	0,040	Rp 209.200	Rp 8.368,00
Jumlah Harga Tenaga Kerja					Rp 80.492,00
B	Bahan				
1	Beton Ready Mixed	M3	1,02	Rp 1.456.900	Rp 1.486.038,00
Jumlah Harga Bahan					Rp 1.486.038,00
C	Peralatan				
1	Concrete Pump	Jam	0,25	Rp 296.800	Rp 74.200,00
2	Vibrator Beton	Jam	0,15	Rp 61.100	Rp 9.165,00
Jumlah Harga Alat					Rp 83.365,00
D	Jumlah Harga Tenaga Kerja, Bahan Dan Peralatan (A+B+C)				Rp 1.649.895,00
E	Biaya Umum dan Keuntungan			15%	Rp 247.484,25
F	Harga Satuan Pekerjaan (D+E)				Rp 1.897.379,25

Lampiran 5: Rincian RAB

Rencana Anggaran Biaya Pekerjaan Struktur Atas APARTMENT URBNX					
NO	Uraian Pekerjaan	Satuan	Volume	Harga Satuan	Jumlah Harga
	Lantai 1				
A	Pekerjaan Kolom				
-	Beton Fc`45	M3	156,95	Rp 1.897.379	Rp 297.784.186
-	Beton Fc`35	M3	58,23	Rp 1.828.290	Rp 106.461.300
-	Bekisting	M2	1243,80	Rp 272.728	Rp 339.218.975
-	Pembesian	KG	54669,75	Rp 23.096	Rp 1.262.672.781
					Rp 2.006.137.243
B	Pekerjaan Balok				
-	Beton Fc`35	M3	59,36	Rp 1.857.380	Rp 110.255.560
-	Beton Fc`30	M3	154,56	Rp 1.817.381	Rp 280.887.738
-	Bekisting	M2	1160,92	Rp 272.728	Rp 316.614.059
-	Pembesian	KG	45298,01	Rp 23.096	Rp 1.046.219.606
					Rp 1.753.976.962
C	Pekerjaan Plat Lantai				
-	Beton Fc`35	M3	92,63	Rp 1.857.380	Rp 172.042.400
-	Beton Fc`30	M3	108,19	Rp 1.817.381	Rp 196.629.073
-	Bekisting	M2	2601,77	Rp 319.073	Rp 830.152.875
-	Pembesian	KG	33234,25	Rp 23.096	Rp 767.590.586
					Rp 1.966.414.934
D	Pekerjaan Shearwall				
-	Beton Fc`45	M3	71,48	Rp 1.897.379	Rp 135.616.320
-	Bekisting	M2	441,47	Rp 326.088	Rp 143.957.401
-	Pembesian	KG	27180,48	Rp 23.096	Rp 627.770.435
					Rp 907.344.156
E	Pekerjaan Tangga				
-	Beton Fc`35	M3	14,75	Rp 1.857.380	Rp 27.404.270
-	Bekisting	M2	112,27	Rp 274.244	Rp 30.788.293
-	Pembesian	KG	1675,07	Rp 23.096	Rp 38.688.119
					Rp 96.880.681
	Total				Rp 6.730.753.977

	Lantai 2				
A	Pekerjaan Kolom				
	- Beton Fc`45	M3	130,79	Rp 1.897.379	Rp 248.153.489
	- Beton Fc`35	M3	58,23	Rp 1.828.290	Rp 106.461.300
	- Bekisting	M2	1106,70	Rp 272.728	Rp 301.827.979
	- Pembesian	KG	44689,32	Rp 23.096	Rp 1.032.161.146
					Rp 1.688.603.914
B	Pekerjaan Balok				
	- Beton Fc`35	M3	105,30	Rp 1.828.290	Rp 192.514.136
	- Beton Fc`30	M3	212,65	Rp 1.817.381	Rp 386.468.076
	- Bekisting	M2	1842,48	Rp 279.323	Rp 514.646.188
	- Pembesian	KG	68589,75	Rp 23.096	Rp 1.584.174.270
					Rp 2.677.802.670
C	Pekerjaan Plat Lantai				
	- Beton Fc`35	M3	96,91	Rp 1.828.290	Rp 177.186.488
	- Beton Fc`30	M3	199,72	Rp 1.817.381	Rp 362.970.780
	- Bekisting	M2	2447,76	Rp 319.073	Rp 781.015.025
	- Pembesian	KG	31063,19	Rp 23.096	Rp 717.446.814
					Rp 2.038.619.107
D	Pekerjaan Shearwall				
	- Beton Fc`45	M3	71,58	Rp 1.897.379	Rp 135.820.099
	- Bekisting	M2	382,89	Rp 326.088	Rp 124.855.820
	- Pembesian	KG	27180,48	Rp 23.096	Rp 627.770.435
					Rp 888.446.354
E	Pekerjaan Tangga				
	- Beton Fc`35	M3	13,69	Rp 1.828.290	Rp 25.023.613
	- Bekisting	M2	105,64	Rp 274.244	Rp 28.971.035
	- Pembesian	KG	1520,45	Rp 23.096	Rp 35.116.939
					Rp 89.111.588
	Total				Rp 7.382.583.633

	Lantai 3				
A	Pekerjaan Kolom				
	- Beton Fc`45	M3	130,79	Rp 1.897.379	Rp 248.153.489
	- Beton Fc`35	M3	9,43	Rp 1.828.290	Rp 17.244.244
	- Bekisting	M2	752,29	Rp 272.728	Rp 205.171.571
	- Pembesian	KG	34777,86	Rp 23.096	Rp 803.242.227
					Rp 1.273.811.531
B	Pekerjaan Balok				
	- Beton Fc`35	M3	90,90	Rp 1.828.290	Rp 166.191.886
	- Bekisting	M2	502,86	Rp 279.323	Rp 140.460.463
	- Pembesian	KG	21899,41	Rp 23.096	Rp 505.796.902
					Rp 812.449.250
C	Pekerjaan Plat Lantai				
	- Beton Fc`35	M3	592,75	Rp 1.828.290	Rp 1.083.722.598
	- Bekisting	M2	666,51	Rp 319.073	Rp 212.665.286
	- Pembesian	KG	9026,49	Rp 23.096	Rp 208.479.205
					Rp 1.504.867.089
D	Pekerjaan Shearwall				
	- Beton Fc`45	M3	71,58	Rp 1.897.379	Rp 135.820.099
	- Bekisting	M2	382,89	Rp 326.088	Rp 124.855.820
	- Pembesian	KG	27511,73	Rp 23.096	Rp 635.421.113
					Rp 896.097.032
E	Pekerjaan Tangga				
	- Beton Fc`35	M3	11,75	Rp 1.828.290	Rp 21.484.598
	- Bekisting	M2	87,97	Rp 274.244	Rp 24.124.842
	- Pembesian	KG	1245,25	Rp 23.096	Rp 28.760.720
					Rp 74.370.161
	Total				Rp 4.561.595.062

	Lantai 4					
A	Pekerjaan Kolom					
-	Beton Fc`45	M3	117,71	Rp 1.897.379	Rp	223.338.140
-	Beton Fc`35	M3	4,80	Rp 1.828.290	Rp	8.766.648
-	Bekisting	M2	649,85	Rp 272.728	Rp	177.232.233
-	Pembesian	KG	28290,08	Rp 23.096	Rp	653.398.201
					Rp	1.062.735.221
B	Pekerjaan Balok					
-	Beton Fc`35	M3	94,71	Rp 1.828.290	Rp	173.148.527
-	Bekisting	M2	526,56	Rp 279.323	Rp	147.080.422
-	Pembesian	KG	22552,50	Rp 23.096	Rp	520.880.871
					Rp	841.109.821
C	Pekerjaan Plat Lantai					
-	Beton Fc`35	M3	81,70	Rp 1.828.290	Rp	149.368.331
-	Bekisting	M2	649,47	Rp 319.073	Rp	207.228.283
-	Pembesian	KG	8973,56	Rp 23.096	Rp	207.256.706
					Rp	563.853.320
D	Pekerjaan Shearwall					
-	Beton Fc`45	M3	64,42	Rp 1.897.379	Rp	122.238.089
-	Bekisting	M2	344,60	Rp 326.088	Rp	112.370.238
-	Pembesian	KG	20991,41	Rp 23.096	Rp	484.825.479
					Rp	719.433.806
E	Pekerjaan Tangga					
-	Beton Fc`35	M3	6,89	Rp 1.828.290	Rp	12.600.485
-	Bekisting	M2	51,87	Rp 274.244	Rp	14.223.995
-	Pembesian	KG	675,03	Rp 23.096	Rp	15.590.652
					Rp	42.415.131
	Total				Rp	3.229.547.299

	Lantai 5					
A	Pekerjaan Kolom					
-	Beton Fc`45	M3	117,71	Rp 1.897.379	Rp	223.338.140
-	Bekisting	M2	616,95	Rp 272.728	Rp	168.259.485
-	Pembesian	KG	27116,43	Rp 23.096	Rp	626.291.200
					Rp	1.017.888.824
B	Pekerjaan Balok					
-	Beton Fc`35	M3	94,71	Rp 1.828.290	Rp	173.148.527
-	Bekisting	M2	526,56	Rp 279.323	Rp	147.080.422
-	Pembesian	KG	22552,50	Rp 23.096	Rp	520.880.871
					Rp	841.109.821
C	Pekerjaan Plat Lantai					
-	Beton Fc`35	M3	81,70	Rp 1.828.290	Rp	149.368.331
-	Bekisting	M2	649,47	Rp 319.073	Rp	207.228.283
-	Pembesian	KG	8973,56	Rp 23.096	Rp	207.256.706
					Rp	563.853.320
D	Pekerjaan Shearwall					
-	Beton Fc`45	M3	64,42	Rp 1.897.379	Rp	122.238.089
-	Bekisting	M2	344,60	Rp 326.088	Rp	112.370.238
-	Pembesian	KG	20991,41	Rp 23.096	Rp	484.825.479
					Rp	719.433.806
E	Pekerjaan Tangga					
-	Beton Fc`35	M3	6,89	Rp 1.828.290	Rp	12.600.485
-	Bekisting	M2	51,87	Rp 274.244	Rp	14.223.995
-	Pembesian	KG	675,03	Rp 23.096	Rp	15.590.652
					Rp	42.415.131
	Total				Rp	3.184.700.902

	Lantai 6				
A	Pekerjaan Kolom				
-	Beton Fc`45	M3	117,71	Rp 1.897.379	Rp 223.338.140
-	Bekisting	M2	616,95	Rp 272.728	Rp 168.259.485
-	Pembesian	KG	27116,43	Rp 23.096	Rp 626.291.200
					Rp 1.017.888.824
B	Pekerjaan Balok				
-	Beton Fc`35	M3	94,71	Rp 1.828.290	Rp 173.148.527
-	Bekisting	M2	526,56	Rp 279.323	Rp 147.080.422
-	Pembesian	KG	22552,50	Rp 23.096	Rp 520.880.871
					Rp 841.109.821
C	Pekerjaan Plat Lantai				
-	Beton Fc`35	M3	81,70	Rp 1.828.290	Rp 149.368.331
-	Bekisting	M2	649,47	Rp 319.073	Rp 207.228.283
-	Pembesian	KG	8973,56	Rp 23.096	Rp 207.256.706
					Rp 563.853.320
D	Pekerjaan Shearwall				
-	Beton Fc`45	M3	64,42	Rp 1.897.379	Rp 122.238.089
-	Bekisting	M2	344,60	Rp 326.088	Rp 112.370.238
-	Pembesian	KG	20991,41	Rp 23.096	Rp 484.825.479
					Rp 719.433.806
E	Pekerjaan Tangga				
-	Beton Fc`35	M3	6,89	Rp 1.828.290	Rp 12.600.485
-	Bekisting	M2	51,87	Rp 274.244	Rp 14.223.995
-	Pembesian	KG	675,03	Rp 23.096	Rp 15.590.652
					Rp 42.415.131
	Total				Rp 3.184.700.902

	Lantai 7				
A	Pekerjaan Kolom				
-	Beton Fc`45	M3	117,71	Rp 1.897.379	Rp 223.338.140
-	Bekisting	M2	616,95	Rp 272.728	Rp 168.259.485
-	Pembesian	KG	27116,43	Rp 23.096	Rp 626.291.200
					Rp 1.017.888.824
B	Pekerjaan Balok				
-	Beton Fc`35	M3	94,71	Rp 1.828.290	Rp 173.148.527
-	Bekisting	M2	526,56	Rp 279.323	Rp 147.080.422
-	Pembesian	KG	22552,50	Rp 23.096	Rp 520.880.871
					Rp 841.109.821
C	Pekerjaan Plat Lantai				
-	Beton Fc`35	M3	81,70	Rp 1.828.290	Rp 149.368.331
-	Bekisting	M2	649,47	Rp 319.073	Rp 207.228.283
-	Pembesian	KG	8973,56	Rp 23.096	Rp 207.256.706
					Rp 563.853.320
D	Pekerjaan Shearwall				
-	Beton Fc`45	M3	64,42	Rp 1.897.379	Rp 122.238.089
-	Bekisting	M2	344,60	Rp 326.088	Rp 112.370.238
-	Pembesian	KG	20991,41	Rp 23.096	Rp 484.825.479
					Rp 719.433.806
E	Pekerjaan Tangga				
-	Beton Fc`35	M3	6,89	Rp 1.828.290	Rp 12.600.485
-	Bekisting	M2	51,87	Rp 274.244	Rp 14.223.995
-	Pembesian	KG	675,03	Rp 23.096	Rp 15.590.652
					Rp 42.415.131
	Total				Rp 3.184.700.902

	Lantai 8					
A	Pekerjaan Kolom					
-	Beton Fc'45	M3	117,71	Rp 1.897.379	Rp 223.338.140	
-	Bekisting	M2	616,95	Rp 272.728	Rp 168.259.485	
-	Pembesian	KG	27116,43	Rp 23.096	Rp 626.291.200	
					Rp 1.017.888.824	
B	Pekerjaan Balok					
-	Beton Fc'35	M3	94,71	Rp 1.828.290	Rp 173.148.527	
-	Bekisting	M2	526,56	Rp 279.323	Rp 147.080.422	
-	Pembesian	KG	22552,50	Rp 23.096	Rp 520.880.871	
					Rp 841.109.821	
C	Pekerjaan Plat Lantai					
-	Beton Fc'35	M3	81,70	Rp 1.828.290	Rp 149.368.331	
-	Bekisting	M2	649,47	Rp 319.073	Rp 207.228.283	
-	Pembesian	KG	8973,56	Rp 23.096	Rp 207.256.706	
					Rp 563.853.320	
D	Pekerjaan Shearwall					
-	Beton Fc'45	M3	64,42	Rp 1.897.379	Rp 122.238.089	
-	Bekisting	M2	344,60	Rp 326.088	Rp 112.370.238	
-	Pembesian	KG	20991,41	Rp 23.096	Rp 484.825.479	
					Rp 719.433.806	
E	Pekerjaan Tangga					
-	Beton Fc'35	M3	6,89	Rp 1.828.290	Rp 12.600.485	
-	Bekisting	M2	51,87	Rp 274.244	Rp 14.223.995	
-	Pembesian	KG	675,03	Rp 23.096	Rp 15.590.652	
					Rp 42.415.131	
	Total				Rp 3.184.700.902	

	Lantai 9					
A	Pekerjaan Kolom					
-	Beton Fc'45	M3	117,71	Rp 1.897.379	Rp 223.338.140	
-	Bekisting	M2	616,95	Rp 272.728	Rp 168.259.485	
-	Pembesian	KG	27116,43	Rp 23.096	Rp 626.291.200	
					Rp 1.017.888.824	
B	Pekerjaan Balok					
-	Beton Fc'35	M3	94,71	Rp 1.828.290	Rp 173.148.527	
-	Bekisting	M2	526,56	Rp 279.323	Rp 147.080.422	
-	Pembesian	KG	22552,50	Rp 23.096	Rp 520.880.871	
					Rp 841.109.821	
C	Pekerjaan Plat Lantai					
-	Beton Fc'35	M3	81,70	Rp 1.828.290	Rp 149.368.331	
-	Bekisting	M2	649,47	Rp 319.073	Rp 207.228.283	
-	Pembesian	KG	8973,56	Rp 23.096	Rp 207.256.706	
					Rp 563.853.320	
D	Pekerjaan Shearwall					
-	Beton Fc'45	M3	64,42	Rp 1.897.379	Rp 122.238.089	
-	Bekisting	M2	344,60	Rp 326.088	Rp 112.370.238	
-	Pembesian	KG	20991,41	Rp 23.096	Rp 484.825.479	
					Rp 719.433.806	
E	Pekerjaan Tangga					
-	Beton Fc'35	M3	6,89	Rp 1.828.290	Rp 12.600.485	
-	Bekisting	M2	51,87	Rp 274.244	Rp 14.223.995	
-	Pembesian	KG	675,03	Rp 23.096	Rp 15.590.652	
					Rp 42.415.131	
	Total				Rp 3.184.700.902	

	Lantai 10					
A	Pekerjaan Kolom					
-	Beton Fc' 40	M3	100,88	Rp 1.857.380	Rp	187.370.168
-	Bekisting	M2	575,55	Rp 272.728	Rp	156.968.549
-	Pembesian	KG	24503,35	Rp 23.096	Rp	565.938.406
					Rp	910.277.123
B	Pekerjaan Balok					
-	Beton Fc' 30	M3	96,37	Rp 1.817.381	Rp	175.139.519
-	Bekisting	M2	535,45	Rp 279.323	Rp	149.563.606
-	Pembesian	KG	24075,46	Rp 23.096	Rp	556.055.678
					Rp	880.758.803
C	Pekerjaan Plat Lantai					
-	Beton Fc' 30	M3	81,70	Rp 1.817.381	Rp	148.477.091
-	Bekisting	M2	649,47	Rp 319.073	Rp	207.228.283
-	Pembesian	KG	8973,56	Rp 23.096	Rp	207.256.706
					Rp	562.962.081
D	Pekerjaan Shearwall					
-	Beton Fc' 40	M3	64,42	Rp 1.857.380	Rp	119.661.146
-	Bekisting	M2	344,60	Rp 326.088	Rp	112.370.238
-	Pembesian	KG	20566,29	Rp 23.096	Rp	475.006.596
					Rp	707.037.980
E	Pekerjaan Tangga					
-	Beton Fc' 30	M3	6,89	Rp 1.817.381	Rp	12.525.301
-	Bekisting	M2	51,87	Rp 274.244	Rp	14.223.995
-	Pembesian	KG	675,03	Rp 23.096	Rp	15.590.652
					Rp	42.339.948
	Total				Rp	3.103.375.934

	Lantai 11					
A	Pekerjaan Kolom					
-	Beton Fc' 40	M3	100,88	Rp 1.857.380	Rp	187.370.168
-	Bekisting	M2	575,55	Rp 272.728	Rp	156.968.549
-	Pembesian	KG	30798,18	Rp 23.096	Rp	711.326.234
					Rp	1.055.664.950
B	Pekerjaan Balok					
-	Beton Fc' 30	M3	96,37	Rp 1.817.381	Rp	175.139.519
-	Bekisting	M2	535,45	Rp 279.323	Rp	149.563.606
-	Pembesian	KG	24075,46	Rp 23.096	Rp	556.055.678
					Rp	880.758.803
C	Pekerjaan Plat Lantai					
-	Beton Fc' 30	M3	81,70	Rp 1.817.381	Rp	148.477.091
-	Bekisting	M2	649,47	Rp 319.073	Rp	207.228.283
-	Pembesian	KG	8973,56	Rp 23.096	Rp	207.256.706
					Rp	562.962.081
D	Pekerjaan Shearwall					
-	Beton Fc' 40	M3	64,42	Rp 1.857.380	Rp	119.661.146
-	Bekisting	M2	344,60	Rp 326.088	Rp	112.370.238
-	Pembesian	KG	20566,29	Rp 23.096	Rp	475.006.596
					Rp	707.037.980
E	Pekerjaan Tangga					
-	Beton Fc' 30	M3	6,89	Rp 1.817.381	Rp	12.525.301
-	Bekisting	M2	51,87	Rp 274.244	Rp	14.223.995
-	Pembesian	KG	675,03	Rp 23.096	Rp	15.590.652
					Rp	42.339.948
	Total				Rp	3.248.763.761

	Lantai 12					
A	Pekerjaan Kolom					
-	Beton Fc' 40	M3	100,88	Rp 1.857.380	Rp 187.370.168	
-	Bekisting	M2	575,55	Rp 272.728	Rp 156.968.549	
-	Pembesian	KG	30798,18	Rp 23.096	Rp 711.326.234	
					Rp 1.055.664.950	
B	Pekerjaan Balok					
-	Beton Fc' 30	M3	96,37	Rp 1.817.381	Rp 175.139.519	
-	Bekisting	M2	535,45	Rp 279.323	Rp 149.563.606	
-	Pembesian	KG	24075,46	Rp 23.096	Rp 556.055.678	
					Rp 880.758.803	
C	Pekerjaan Plat Lantai					
-	Beton Fc' 30	M3	81,70	Rp 1.817.381	Rp 148.477.091	
-	Bekisting	M2	649,47	Rp 319.073	Rp 207.228.283	
-	Pembesian	KG	8973,56	Rp 23.096	Rp 207.256.706	
					Rp 562.962.081	
D	Pekerjaan Shearwall					
-	Beton Fc' 40	M3	64,42	Rp 1.857.380	Rp 119.661.146	
-	Bekisting	M2	344,60	Rp 326.088	Rp 112.370.238	
-	Pembesian	KG	20566,29	Rp 23.096	Rp 475.006.596	
					Rp 707.037.980	
E	Pekerjaan Tangga					
-	Beton Fc' 30	M3	6,89	Rp 1.817.381	Rp 12.525.301	
-	Bekisting	M2	51,87	Rp 274.244	Rp 14.223.995	
-	Pembesian	KG	675,03	Rp 23.096	Rp 15.590.652	
					Rp 42.339.948	
	Total				Rp 3.248.763.761	

	Lantai 13					
A	Pekerjaan Kolom					
-	Beton Fc' 40	M3	100,88	Rp 1.857.380	Rp 187.370.168	
-	Bekisting	M2	575,55	Rp 272.728	Rp 156.968.549	
-	Pembesian	KG	30798,18	Rp 23.096	Rp 711.326.234	
					Rp 1.055.664.950	
B	Pekerjaan Balok					
-	Beton Fc' 30	M3	96,37	Rp 1.817.381	Rp 175.139.519	
-	Bekisting	M2	535,45	Rp 279.323	Rp 149.563.606	
-	Pembesian	KG	24075,46	Rp 23.096	Rp 556.055.678	
					Rp 880.758.803	
C	Pekerjaan Plat Lantai					
-	Beton Fc' 30	M3	81,70	Rp 1.817.381	Rp 148.477.091	
-	Bekisting	M2	649,47	Rp 319.073	Rp 207.228.283	
-	Pembesian	KG	8973,56	Rp 23.096	Rp 207.256.706	
					Rp 562.962.081	
D	Pekerjaan Shearwall					
-	Beton Fc' 40	M3	64,42	Rp 1.857.380	Rp 119.661.146	
-	Bekisting	M2	344,60	Rp 326.088	Rp 112.370.238	
-	Pembesian	KG	20566,29	Rp 23.096	Rp 475.006.596	
					Rp 707.037.980	
E	Pekerjaan Tangga					
-	Beton Fc' 30	M3	6,89	Rp 1.817.381	Rp 12.525.301	
-	Bekisting	M2	51,87	Rp 274.244	Rp 14.223.995	
-	Pembesian	KG	675,03	Rp 23.096	Rp 15.590.652	
					Rp 42.339.948	
	Total				Rp 3.248.763.761	

	Lantai 14					
A	Pekerjaan Kolom					
-	Beton Fc' 40	M3	100,88	Rp 1.857.380	Rp 187.370.168	
-	Bekisting	M2	575,55	Rp 272.728	Rp 156.968.549	
-	Pembesian	KG	30798,18	Rp 23.096	Rp 711.326.234	
					Rp 1.055.664.950	
B	Pekerjaan Balok					
-	Beton Fc' 30	M3	96,37	Rp 1.817.381	Rp 175.139.519	
-	Bekisting	M2	535,45	Rp 279.323	Rp 149.563.606	
-	Pembesian	KG	24075,46	Rp 23.096	Rp 556.055.678	
					Rp 880.758.803	
C	Pekerjaan Plat Lantai					
-	Beton Fc' 30	M3	81,70	Rp 1.817.381	Rp 148.477.091	
-	Bekisting	M2	649,47	Rp 319.073	Rp 207.228.283	
-	Pembesian	KG	8973,56	Rp 23.096	Rp 207.256.706	
					Rp 562.962.081	
D	Pekerjaan Shearwall					
-	Beton Fc' 40	M3	64,42	Rp 1.857.380	Rp 119.661.146	
-	Bekisting	M2	344,60	Rp 326.088	Rp 112.370.238	
-	Pembesian	KG	20566,29	Rp 23.096	Rp 475.006.596	
					Rp 707.037.980	
E	Pekerjaan Tangga					
-	Beton Fc' 30	M3	6,89	Rp 1.817.381	Rp 12.525.301	
-	Bekisting	M2	51,87	Rp 274.244	Rp 14.223.995	
-	Pembesian	KG	675,03	Rp 23.096	Rp 15.590.652	
					Rp 42.339.948	
	Total				Rp 3.248.763.761	

	Lantai 15					
A	Pekerjaan Kolom					
-	Beton Fc' 40	M3	100,88	Rp 1.857.380	Rp 187.370.168	
-	Bekisting	M2	575,55	Rp 272.728	Rp 156.968.549	
-	Pembesian	KG	30798,18	Rp 23.096	Rp 711.326.234	
					Rp 1.055.664.950	
B	Pekerjaan Balok					
-	Beton Fc' 30	M3	96,37	Rp 1.817.381	Rp 175.139.519	
-	Bekisting	M2	535,45	Rp 279.323	Rp 149.563.606	
-	Pembesian	KG	24075,46	Rp 23.096	Rp 556.055.678	
					Rp 880.758.803	
C	Pekerjaan Plat Lantai					
-	Beton Fc' 30	M3	81,70	Rp 1.817.381	Rp 148.477.091	
-	Bekisting	M2	649,47	Rp 319.073	Rp 207.228.283	
-	Pembesian	KG	8973,56	Rp 23.096	Rp 207.256.706	
					Rp 562.962.081	
D	Pekerjaan Shearwall					
-	Beton Fc' 40	M3	64,42	Rp 1.857.380	Rp 119.661.146	
-	Bekisting	M2	344,60	Rp 326.088	Rp 112.370.238	
-	Pembesian	KG	20566,29	Rp 23.096	Rp 475.006.596	
					Rp 707.037.980	
E	Pekerjaan Tangga					
-	Beton Fc' 30	M3	6,89	Rp 1.817.381	Rp 12.525.301	
-	Bekisting	M2	51,87	Rp 274.244	Rp 14.223.995	
-	Pembesian	KG	675,03	Rp 23.096	Rp 15.590.652	
					Rp 42.339.948	
	Total				Rp 3.248.763.761	

	Lantai 16					
A	Pekerjaan Kolom					
-	Beton Fc' 40	M3	100,88	Rp 1.857.380	Rp 187.370.168	
-	Bekisting	M2	575,55	Rp 272.728	Rp 156.968.549	
-	Pembesian	KG	30798,18	Rp 23.096	Rp 711.326.234	
					Rp 1.055.664.950	
B	Pekerjaan Balok					
-	Beton Fc' 30	M3	96,37	Rp 1.817.381	Rp 175.139.519	
-	Bekisting	M2	535,45	Rp 279.323	Rp 149.563.606	
-	Pembesian	KG	24075,46	Rp 23.096	Rp 556.055.678	
					Rp 880.758.803	
C	Pekerjaan Plat Lantai					
-	Beton Fc' 30	M3	81,70	Rp 1.817.381	Rp 148.477.091	
-	Bekisting	M2	649,47	Rp 319.073	Rp 207.228.283	
-	Pembesian	KG	8973,56	Rp 23.096	Rp 207.256.706	
					Rp 562.962.081	
D	Pekerjaan Shearwall					
-	Beton Fc' 40	M3	64,42	Rp 1.857.380	Rp 119.661.146	
-	Bekisting	M2	344,60	Rp 326.088	Rp 112.370.238	
-	Pembesian	KG	20566,29	Rp 23.096	Rp 475.006.596	
					Rp 707.037.980	
E	Pekerjaan Tangga					
-	Beton Fc' 30	M3	6,89	Rp 1.817.381	Rp 12.525.301	
-	Bekisting	M2	51,87	Rp 274.244	Rp 14.223.995	
-	Pembesian	KG	675,03	Rp 23.096	Rp 15.590.652	
					Rp 42.339.948	
	Total				Rp 3.248.763.761	

	Lantai 17					
A	Pekerjaan Kolom					
-	Beton Fc' 40	M3	100,88	Rp 1.857.380	Rp 187.370.168	
-	Bekisting	M2	575,55	Rp 272.728	Rp 156.968.549	
-	Pembesian	KG	30798,18	Rp 23.096	Rp 711.326.234	
					Rp 1.055.664.950	
B	Pekerjaan Balok					
-	Beton Fc' 30	M3	96,37	Rp 1.817.381	Rp 175.139.519	
-	Bekisting	M2	535,45	Rp 279.323	Rp 149.563.606	
-	Pembesian	KG	24075,46	Rp 23.096	Rp 556.055.678	
					Rp 880.758.803	
C	Pekerjaan Plat Lantai					
-	Beton Fc' 30	M3	81,70	Rp 1.817.381	Rp 148.477.091	
-	Bekisting	M2	649,47	Rp 319.073	Rp 207.228.283	
-	Pembesian	KG	8973,56	Rp 23.096	Rp 207.256.706	
					Rp 562.962.081	
D	Pekerjaan Shearwall					
-	Beton Fc' 40	M3	64,42	Rp 1.857.380	Rp 119.661.146	
-	Bekisting	M2	344,60	Rp 326.088	Rp 112.370.238	
-	Pembesian	KG	20566,29	Rp 23.096	Rp 475.006.596	
					Rp 707.037.980	
E	Pekerjaan Tangga					
-	Beton Fc' 30	M3	7,53	Rp 1.817.381	Rp 13.685.353	
-	Bekisting	M2	56,32	Rp 274.244	Rp 15.445.560	
-	Pembesian	KG	721,06	Rp 23.096	Rp 16.653.890	
					Rp 45.784.803	
	Total				Rp 3.252.208.616	

	Lantai 18					
A	Pekerjaan Kolom					
-	Beton Fc' 40	M3	100,88	Rp 1.857.380	Rp	187.370.168
-	Bekisting	M2	575,55	Rp 272.728	Rp	156.968.549
-	Pembesian	KG	30798,18	Rp 23.096	Rp	711.326.234
					Rp	1.055.664.950
B	Pekerjaan Balok					
-	Beton Fc' 30	M3	96,37	Rp 1.817.381	Rp	175.139.519
-	Bekisting	M2	535,45	Rp 279.323	Rp	149.563.606
-	Pembesian	KG	24075,46	Rp 23.096	Rp	556.055.678
					Rp	880.758.803
C	Pekerjaan Plat Lantai					
-	Beton Fc' 30	M3	81,70	Rp 1.817.381	Rp	148.477.091
-	Bekisting	M2	649,47	Rp 319.073	Rp	207.228.283
-	Pembesian	KG	8973,56	Rp 23.096	Rp	207.256.706
					Rp	562.962.081
D	Pekerjaan Shearwall					
-	Beton Fc' 40	M3	71,58	Rp 1.857.380	Rp	132.956.829
-	Bekisting	M2	382,89	Rp 326.088	Rp	124.855.820
-	Pembesian	KG	23183,01	Rp 23.096	Rp	535.443.324
					Rp	793.255.973
E	Pekerjaan Tangga					
-	Beton Fc' 30	M3	11,56	Rp 1.817.381	Rp	21.009.207
-	Bekisting	M2	86,81	Rp 274.244	Rp	23.807.556
-	Pembesian	KG	1045,17	Rp 23.096	Rp	24.139.519
					Rp	68.956.282
	Total				Rp	3.361.598.090

	Lantai 19					
A	Pekerjaan Kolom					
-	Beton Fc' 40	M3	71,14	Rp 1.857.380	Rp	132.129.366
-	Bekisting	M2	422,50	Rp 272.728	Rp	115.227.542
-	Pembesian	KG	21368,81	Rp 23.096	Rp	493.542.053
					Rp	740.898.961
B	Pekerjaan Balok					
-	Beton Fc' 30	M3	96,37	Rp 1.817.381	Rp	175.139.519
-	Bekisting	M2	535,45	Rp 279.323	Rp	149.563.606
-	Pembesian	KG	23533,05	Rp 23.096	Rp	543.528.101
					Rp	868.231.225
C	Pekerjaan Plat Lantai					
-	Beton Fc' 30	M3	81,70	Rp 1.817.381	Rp	148.477.091
-	Bekisting	M2	649,47	Rp 319.073	Rp	207.228.283
-	Pembesian	KG	8973,56	Rp 23.096	Rp	207.256.706
					Rp	562.962.081
D	Pekerjaan Shearwall					
-	Beton Fc' 40	M3	71,58	Rp 1.857.380	Rp	132.956.829
-	Bekisting	M2	382,89	Rp 326.088	Rp	124.855.820
-	Pembesian	KG	23183,01	Rp 23.096	Rp	535.443.324
					Rp	793.255.973
E	Pekerjaan Tangga					
-	Beton Fc' 30	M3	11,56	Rp 1.817.381	Rp	21.009.207
-	Bekisting	M2	86,81	Rp 274.244	Rp	23.807.556
-	Pembesian	KG	1045,17	Rp 23.096	Rp	24.139.519
					Rp	68.956.282
	Total				Rp	3.034.304.523

	Lantai 20					
A	Pekerjaan Kolom					
-	Beton Fc' 40	M3	71,14	Rp 1.857.380	Rp	132.129.366
-	Bekisting	M2	422,50	Rp 272.728	Rp	115.227.542
-	Pembesian	KG	21368,81	Rp 23.096	Rp	493.542.053
					Rp	740.898.961
B	Pekerjaan Balok					
-	Beton Fc' 30	M3	155,85	Rp 1.817.381	Rp	283.230.505
-	Bekisting	M2	663,09	Rp 279.323	Rp	185.215.022
-	Pembesian	KG	30605,78	Rp 23.096	Rp	706.882.421
					Rp	1.175.327.948
C	Pekerjaan Plat Lantai					
-	Beton Fc' 30	M3	67,88	Rp 1.817.381	Rp	123.356.311
-	Bekisting	M2	528,44	Rp 319.073	Rp	168.611.846
-	Pembesian	KG	7669,09	Rp 23.096	Rp	177.128.110
					Rp	469.096.267
D	Pekerjaan Shearwall					
-	Beton Fc' 40	M3	71,58	Rp 1.857.380	Rp	132.956.829
-	Bekisting	M2	382,89	Rp 326.088	Rp	124.855.820
-	Pembesian	KG	23183,01	Rp 23.096	Rp	535.443.324
					Rp	793.255.973
E	Pekerjaan Tangga					
-	Beton Fc' 30	M3	11,56	Rp 1.817.381	Rp	21.009.207
-	Bekisting	M2	86,81	Rp 274.244	Rp	23.807.556
-	Pembesian	KG	1045,17	Rp 23.096	Rp	24.139.519
					Rp	68.956.282
	Total				Rp	3.247.535.432

	Lantai ATAP					
A	Pekerjaan Kolom					
-	Beton Fc' 40	M3	0,86	Rp 1.857.380	Rp	1.594.329
-	Bekisting	M2	12,08	Rp 272.728	Rp	3.293.190
-	Pembesian	KG	230,44	Rp 23.096	Rp	5.322.358
					Rp	10.209.876
B	Pekerjaan Balok					
-	Beton Fc' 30	M3	146,55	Rp 1.817.381	Rp	266.339.769
-	Bekisting	M2	9,98	Rp 279.323	Rp	2.788.553
-	Pembesian	KG	2467,07	Rp 23.096	Rp	56.980.344
					Rp	326.108.667
C	Pekerjaan Plat Lantai					
-	Beton Fc' 30	M3	89,61	Rp 1.817.381	Rp	162.855.953
-	Bekisting	M2	3,23	Rp 319.073	Rp	1.029.355
-	Pembesian	KG	2058,71	Rp 23.096	Rp	47.548.767
					Rp	211.434.075
D	Pekerjaan Shearwall					
-	Beton Fc' 40	M3	12,68	Rp 1.857.380	Rp	23.552.376
-	Bekisting	M2	66,97	Rp 326.088	Rp	21.837.100
-	Pembesian	KG	6533,67	Rp 23.096	Rp	150.904.154
					Rp	196.293.630
	Total				Rp	744.046.248

	ATAP					
A	Pekerjaan Balok					
-	Beton Fc' 30	M3	9,98	Rp 1.817.381	Rp	18.143.365
-	Bekisting	M2	64,72	Rp 279.323	Rp	18.077.797
-	Pembesian	KG	2866,33	Rp 23.096	Rp	66.201.785
					Rp	102.422.947
B	Pekerjaan Plat Lantai					
-	Beton Fc' 30	M3	3,23	Rp 1.817.381	Rp	5.863.015
-	Bekisting	M2	12,67	Rp 319.073	Rp	4.041.537
-	Pembesian	KG	355,69	Rp 23.096	Rp	8.215.054
					Rp	18.119.606
					Rp	36.239.213
	Total				Rp	138.662.160

Lampiran 6:Rekap RAB

Rekapitulasi Rencana Anggaran Biaya		
APARTMENT URBNX		
No	Uraian Pekerjaan	Total Harga Pekerjaan
A	Pekerjaan Struktur Atas	
1	Pekerjaan Kolom	Rp 21.968.336.553
2	Pekerjaan Balok	Rp 20.702.335.397
3	Pekerjaan Plat Lantai	Rp 15.239.411.410
4	Pekerjaan Shearwall	Rp 15.240.855.763
5	Pekerjaan Tangga	Rp 1.064.412.787
B	Total Biaya Fisik	Rp 74.215.351.912
C	PPN 11 %	Rp 8.163.688.710
D	Jumlah (B+C)	Rp 82.379.040.622
E	Total Biaya	Rp 82.379.040.622

no		Pekerjaan Kolom	Pekerjaan Balok	Pekerjaan Plat Lantai	Pekerjaan Shearwall	Pekerjaan Tangga
1	lt 1	Rp 2.006.137.243	Rp 1.753.976.962	Rp 1.966.414.934	Rp 907.344.156	Rp 96.880.681
2	lt 2	Rp 1.688.603.914	Rp 2.677.802.670	Rp 2.038.619.107	Rp 888.446.354	Rp 89.111.588
3	lt 3	Rp 1.273.811.531	Rp 812.449.250	Rp 1.504.867.089	Rp 896.097.032	Rp 74.370.161
4	lt 4	Rp 1.062.735.221	Rp 841.109.821	Rp 563.853.320	Rp 719.433.806	Rp 42.415.131
5	lt 5	Rp 1.017.888.824	Rp 841.109.821	Rp 563.853.320	Rp 719.433.806	Rp 42.415.131
6	lt 6	Rp 1.017.888.824	Rp 841.109.821	Rp 563.853.320	Rp 719.433.806	Rp 42.415.131
7	lt 7	Rp 1.017.888.824	Rp 841.109.821	Rp 563.853.320	Rp 719.433.806	Rp 42.415.131
8	lt 8	Rp 1.017.888.824	Rp 841.109.821	Rp 563.853.320	Rp 719.433.806	Rp 42.415.131
9	lt 9	Rp 1.017.888.824	Rp 841.109.821	Rp 563.853.320	Rp 719.433.806	Rp 42.415.131
10	lt 10	Rp 910.277.123	Rp 880.758.803	Rp 562.962.081	Rp 707.037.980	Rp 42.415.131
11	lt 11	Rp 1.055.664.950	Rp 880.758.803	Rp 562.962.081	Rp 707.037.980	Rp 42.415.131
12	lt 12	Rp 1.055.664.950	Rp 880.758.803	Rp 562.962.081	Rp 707.037.980	Rp 42.415.131
13	lt 13	Rp 1.055.664.950	Rp 880.758.803	Rp 562.962.081	Rp 707.037.980	Rp 42.415.131
14	lt 14	Rp 1.055.664.950	Rp 880.758.803	Rp 562.962.081	Rp 707.037.980	Rp 42.415.131
15	lt 15	Rp 1.055.664.950	Rp 880.758.803	Rp 562.962.081	Rp 707.037.980	Rp 42.415.131
16	lt 16	Rp 1.055.664.950	Rp 880.758.803	Rp 562.962.081	Rp 707.037.980	Rp 42.415.131
17	lt 17	Rp 1.055.664.950	Rp 880.758.803	Rp 562.962.081	Rp 707.037.980	Rp 45.784.803
18	lt 18	Rp 1.055.664.950	Rp 880.758.803	Rp 562.962.081	Rp 793.255.973	Rp 68.956.282
19	lt 19	Rp 740.898.961	Rp 880.758.803	Rp 562.962.081	Rp 793.255.973	Rp 68.956.282
20	lt 20	Rp 740.898.961	Rp 1.175.327.948	Rp 469.096.267	Rp 793.255.973	Rp 68.956.282
21	ATAP	Rp 10.209.876	Rp 326.108.667	Rp 211.434.075	Rp 196.293.630	Rp -
22	ATAP LIFT	Rp -	Rp 102.422.947	Rp 36.239.213	Rp -	Rp -
TOTAL BIAYA PER PEKERJAAN		Rp 21.968.336.553	Rp 20.702.335.397	Rp 15.239.411.410	Rp 15.240.855.763	Rp 1.064.412.787
TOTAL BIAYA PEKERJAAN		Rp 74.215.351.912				

Lampiran 7: Time Schedule

[illegible]

Lampiran 8: Cash Flow

No.	Pekerjaan	Jumlah Harga	Dura	BALAY				BALAY				BALAY				BALAY				BALAY				BALAY				BALAY				
				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
I	NILAI PROYEK TANPA PPN	Rp	74.255.351.912																													
	PROGRESS FISIK																															
	ROBOT MNGGIAN	100.00		0,59	0,59	1,03	1,03	1,05	1,59	0,98	0,98	1,12	1,12	0,97	1,57	1,57	1,54	1,60	1,09	1,61	1,47	2,07	1,03	1,11	1,64	2,22	2,05	2,23	2,06	2,26	2,09	
	ROBOT MNGGIAN KOMULATIF			0,59	1,18	2,21	3,25	4,30	5,89	6,88	7,86	8,98	10,10	11,07	12,65	14,22	15,76	17,36	18,45	20,06	21,53	23,60	24,63	25,74	27,39	29,61	31,66	33,89	35,95	38,21	40,30	
II	CASH IN																															
	UANG MUKA 20%	Rp	14.843.070.382	14.843.070.382																												
	TOTAL PEMBAYARAN PROGRES	Rp	74.255.351.912					3.190.656.307				3.472.772.919				3.087.596.651				4.334.550.312				4.220.792.248					6.046.534.310			
	RETENSI 5%	Rp	3.780.767.596																													
	PINDAMAN KAS KANTOR	Rp	5.610.000.000																													
	JUMLAH CASH IN		14.843.070.382	-	-	-	-	3.190.656.307	-	-	-	3.472.772.919	-	-	-	3.087.596.651	-	-	-	4.334.550.312	-	-	-	4.220.792.248	-	-	-	-	6.046.534.310	-	-	
III	CASH OUT																															
	PENGEMBALIAN UANG MUKA	Rp	14.843.070.382					638.171.300				694.554.364				777.518.530				886.910.062				844.058.430					1.209.702.062			
	RETENSI 5%	Rp	3.780.767.596					170.540.825				173.638.646				194.379.833				216.727.516				211.014.612					302.425.715			
	PENGEMBALIAN KAS KANTOR	Rp	5.610.000.000																													
I	Struktur Lantai 1																															
A	Pekerjaan Kolom	Rp	2.006.137.240	5					4822746.109	4822746.109	4822746.109	4822746.109	4822746.109																			
B	Pekerjaan Balok	Rp	1.753.976.962	4	488648.512	488648.512	488648.512	488648.512																								
C	Pekerjaan Plat Lantai	Rp	1.966.414.934	6		3777862.397	3777862.397	3777862.397	3777862.397	3777862.397	3777862.397	3777862.397	3777862.397																			
D	Pekerjaan Shearwall	Rp	907.344.126	2				4537379.642	4537379.642																							
E	Pekerjaan Tangga	Rp	96.880.681	2						4840382.641	4840382.641																					
2	Struktur Lantai 2																															
A	Pekerjaan Kolom	Rp	1.689.603.914	4											4210978.442	4210978.442	4210978.442	4210978.442														
B	Pekerjaan Balok	Rp	2.677.802.670	7					3524538.091	3524538.091	3524538.091	3524538.091	3524538.091	3524538.091	3524538.091	3524538.091	3524538.091	3524538.091														
C	Pekerjaan Plat Lantai	Rp	2.038.619.107	6					3397081.108	3397081.108	3397081.108	3397081.108	3397081.108	3397081.108	3397081.108	3397081.108	3397081.108	3397081.108														
D	Pekerjaan Shearwall	Rp	888.446.154	2						4442319.974	4442319.974																					
E	Pekerjaan Tangga	Rp	89.111.589	2											445776.040	445776.040																
3	Struktur Lantai 3																															
A	Pekerjaan Kolom	Rp	1.273.811.531	4															3164380.086	3164380.086	3164380.086	3164380.086										
B	Pekerjaan Balok	Rp	812.440.120	3															2786443.036	2786443.036	2786443.036	2786443.036										
C	Pekerjaan Plat Lantai	Rp	1.384.967.089	3															3162529.306	3162529.306	3162529.306	3162529.306										
D	Pekerjaan Shearwall	Rp	895.097.022	2																4480615.616	4480615.616											
E	Pekerjaan Tangga	Rp	74.370.161	2																771880.146	771880.146											
4	Struktur Lantai 4																															
A	Pekerjaan Kolom	Rp	1.062.725.221	3																3424877.039	3424877.039	3424877.039										
B	Pekerjaan Balok	Rp	841.189.021	3																2603946.178	2603946.178	2603946.178										
C	Pekerjaan Plat Lantai	Rp	563.653.120	3																8750136.726	8750136.726	8750136.726										
D	Pekerjaan Shearwall	Rp	719.423.086	2																	3377480.087	3377480.087										
E	Pekerjaan Tangga	Rp	42.435.131	2																												
5	Struktur Lantai 5																															
A	Pekerjaan Kolom	Rp	1.017.880.824	3																												
B	Pekerjaan Balok	Rp	841.189.021	3																												
C	Pekerjaan Plat Lantai	Rp	563.653.120	3																												
D	Pekerjaan Shearwall	Rp	719.423.086	2																												
E	Pekerjaan Tangga	Rp	42.435.131	1																												
6	Struktur Lantai 6																															
A	Pekerjaan Kolom	Rp	1.017.880.824	3																												
B	Pekerjaan Balok	Rp	841.189.021	3																												
C	Pekerjaan Plat Lantai	Rp	563.653.120	3																												
D	Pekerjaan Shearwall	Rp	719.423.086	2																												
E	Pekerjaan Tangga	Rp	42.435.131	1																												
7	Struktur Lantai 7																															
A	Pekerjaan Kolom	Rp	1.017.880.824	3																												
B	Pekerjaan Balok	Rp	841.189.021	3																												
C	Pekerjaan Plat Lantai	Rp	563.653.120	3																												

Table 1																														Table 2						
REL1				REL5				REL10				REL15				REL12				REL13				REL16				REL15				REL15				REL15
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
0.00000				0.00000				0.00000				0.00000				0.00000				0.00000				0.00000				0.00000				0.0				
0.00000																																				
2.20	3.03	2.98	2.10	3.10	3.70	4.31	4.39	4.38	3.73	2.78	2.07	2.30	3.07	2.30	2.13	1.72	1.17	1.73	1.68	0.76	1.79	1.43	0.65	0.39	0.34	0.11	0.03	0.03	0.06	0.06						
42.50	45.54	40.52	50.62	51.00	57.58	61.89	66.27	70.65	74.38	77.16	79.23	81.53	83.61	85.91	88.04	89.76	90.93	92.66	94.34	95.10	96.89	98.32	99.97	99.36	99.70	99.81	99.85	99.88	99.94	100.00						
6.590.699.369				8.393.457.743				12.594.127.113									6.106.025.589				3.983.578.679				3.160.895.589				475.446.272			-				
					4.500.000.000				500.000.000												600.000.000											3.710.767.596				
6.590.699.369	-	-	-	8.393.457.743	4.500.000.000	-	-	12.594.127.113	500.000.000	-	-	-	8.078.628.938	-	-	-	6.106.025.589	-	-	-	3.983.578.679	600.000.000	-	-	3.160.895.589	-	-	-	475.446.272	-	-	3.710.767.596				
1.278.121.674				1.676.691.549				2.500.825.433					1.615.725.788				1.221.295.652				792.365.736				632.179.118				95.099.254							
319.530.468				499.177.887				625.306.336					403.931.447				305.301.363				198.078.934				138.044.779				23.772.314							
																																5.600.000.000				

[illegible]

DAFTAR GAMBAR STRUKTUR
PROYEK UrbnX APARTEMENT, LIPPO KARAWACI - TANGERANG

GENERAL									
NO	NOMOR GAMBAR	JUDUL GAMBAR	SKALA	DD / MM / YY					
				R0	R1	R2	R3	R4	R5
1	SD-01	STANDARD DRAWING	NTS	19/03/25					
2	SD-02	STANDARD DRAWING	NTS	28/02/25					
3	SD-03	STANDARD DRAWING	NTS	28/02/25					
4	SD-04	STANDARD DRAWING	NTS	28/02/25					
5	SD-05	STANDARD DRAWING	NTS	28/02/25					
6	SD-06	STANDARD DRAWING	NTS	28/02/25					

NO	NOMOR GAMBAR	JUDUL GAMBAR	SKALA	DD / MM / YY					
				R0	R1	R2	R3	R4	R5
1	S-00	DAFTAR GAMBAR	NTS	19/03/25					
2	S-01	DENAH TITIK PANCANG	1 : 150	19/03/25					
3	S-02	DENAH TITIK PANCANG	1:150, 1:25	19/03/25					
4	S-03	DETAIL TIANG PANCANG	1:25, 1:10, NTS	19/03/25					
5	S-04	DETAIL TIANG PANCANG	1 : 25	19/03/25					
6	S-05	DETAIL TIANG PANCANG	1:25, 1:10, NTS	19/03/25					
7	S-06	DETAIL TIANG PANCANG	1 : 25	19/03/25					
8	S-07	DENAH LANTAI GWT	1:150, 1:10	19/03/25					
9	S-08	POTONGAN GWT	1 : 50	19/03/25					
10	S-09	POTONGAN GREASE TRAP & GWT	1 : 50	19/03/25					
11	S-10	DENAH & POTONGAN GREASE TRAP	1 : 50	19/03/25					
12	S-11	DENAH CUT OFF LEVEL TITIK PANCANG	1 : 150	19/03/25					
13	S-12	DENAH RAFT	1 : 150	19/03/25					
14	S-13	DENAH RAFT	1 : 150	19/03/25					
15	S-14	POTONGAN RAFT	1:50, 1:20	19/03/25					
16	S-15	POTONGAN RAFT	1 : 50	19/03/25					
17	S-16	POTONGAN RAFT	1:50, 1:20	19/03/25					
18	S-17	POTONGAN RAFT	1:50, 1:20	19/03/25					
19	S-18	POTONGAN RAFT	1:50, 1:20	19/03/25					
20	S-19	POTONGAN RAFT	1:50, 1:20	19/03/25					
21	S-20	DENAH LANTAI GROUND FLOOR & P1	1 : 150	19/03/25					
22	S-21	DENAH LANTAI GROUND FLOOR & P1	1 : 150	19/03/25					
23	S-22	DENAH PELAT LANTAI GROUND FLOOR & P1	1:150, 1:25	19/03/25					
24	S-23	DETAIL PILE CAP	1 : 20	19/03/25					
25	S-24	DENAH LANTAI P2	1:150, 1:20	19/03/25					
26	S-25	DENAH LANTAI P2	1 : 150	19/03/25					
27	S-26	DENAH PELAT LANTAI P2	1 : 150	19/03/25					
28	S-27	DENAH LANTAI LEVEL 2 & FASILITAS	1:150, 1:20	19/03/25					
29	S-28	DENAH LANTAI LEVEL 2 & FASILITAS	1 : 150	19/03/25					
30	S-29	DENAH PELAT LANTAI LEVEL 2 & FASILITAS	1 : 150	19/03/25					
31	S-30	POTONGAN LANTAI FASILITAS	1 : 50	19/03/25					
32	S-31	DENAH LANTAI GYM 1 & ATAP GYM	1 : 150	19/03/25					
33	S-32	DENAH LANTAI MEZZANINE L2	1 : 150	19/03/25					
34	S-33	DENAH LANTAI MEZZANINE L3	1 : 150	19/03/25					
35	S-34	POTONGAN & DETAIL LANTAI MEZZANINE L2	1:50, 1:10	19/03/25					
36	S-35	POTONGAN LANTAI MEZZANINE L2	1:50, 1:20, 1:10, 1:5	19/03/25					
37	S-36	DENAH LANTAI L3	1 : 150	19/03/25					
38	S-37	POTONGAN LANTAI L3	1:50, 1:10	19/03/25					
39	S-38	DENAH LANTAI L4 - L9	1 : 150	19/03/25					
40	S-39	DENAH LANTAI MEZZANINE L4-L18	1 : 150	19/03/25					
41	S-40	POTONGAN & DETAIL LANTAI MEZZANINE L4-L18	1:50, 1:10	19/03/25					
42	S-41	POTONGAN LANTAI MEZZANINE L4-L18	1:50, 1:20, 1:10, 1:5	19/03/25					
43	S-42	DENAH LANTAI L10	1 : 150	19/03/25					
44	S-43	DENAH LANTAI L11 - L18	1 : 150	19/03/25					
45	S-44	DENAH LANTAI L19	1 : 150	19/03/25					
46	S-45	DENAH LANTAI L20	1 : 150	19/03/25					
47	S-46	POTONGAN LANTAI L20	1 : 50	19/03/25					
48	S-47	DENAH LANTAI MEZZANINE PENTHOUSE	1 : 150	19/03/25					
49	S-48	DENAH LANTAI ATAP	1 : 150	19/03/25					
50	S-49	POTONGAN LANTAI ATAP	1:25, 1:10	19/03/25					
51	S-50	DENAH LANTAI ATAP LIFT	1 : 150	19/03/25					
52	S-51	TABEL PENULANGAN PELAT	NTS	19/03/25					

NO	NOMOR GAMBAR	JUDUL GAMBAR	SKALA	DD / MM / YY					
				R0	R1	R2	R3	R4	R5
		DENAH, DETAIL KOLOM & SHEARWALL							
53	S-K-01	DENAH KOLOM	1 : 150	19/03/25					
54	S-K-02	DENAH KOLOM	1 : 150	19/03/25					
55	S-K-03	DENAH KOLOM	1 : 150	19/03/25					
56	S-K-04	DENAH KOLOM	1 : 150	19/03/25					
57	S-K-05	DENAH KOLOM	1 : 150	19/03/25					
58	S-K-06	DENAH KOLOM	1 : 150	19/03/25					
59	S-K-07	DETAIL KOLOM	1:50, 1:25	19/03/25					
60	S-K-08	DETAIL KOLOM	1:50, 1:25	19/03/25					
61	S-K-09	DETAIL KOLOM	1:50, 1:25	19/03/25					
62	S-K-10	DETAIL KOLOM	1:50, 1:25	19/03/25					
63	S-K-11	DETAIL KOLOM	1:50, 1:25	19/03/25					
64	S-K-12	DETAIL KOLOM	1:50, 1:25	19/03/25					
65	S-K-13	DETAIL KOLOM	1:50, 1:25	19/03/25					
66	S-K-14	DETAIL KOLOM	1:50, 1:25	19/03/25					
67	S-K-15	DETAIL KOLOM	1:50, 1:25	19/03/25					
68	S-K-16	DETAIL KOLOM	1:50, 1:25	19/03/25					
69	S-K-17	DETAIL KOLOM	1:50, 1:25	19/03/25					
70	S-K-18	DETAIL KOLOM	1:50, 1:25	19/03/25					
71	S-K-19	DETAIL KOLOM	1:50, 1:25	19/03/25					
72	S-K-20	DETAIL KOLOM	1:50, 1:25	19/03/25					
73	S-K-21	DETAIL KOLOM	1:50, 1:25	19/03/25					
74	S-K-22	DETAIL SHEARWALL W1 & W1B	1 : 20	19/03/25					
75	S-K-23	DETAIL SHEARWALL W1A & W2	1 : 20	19/03/25					
76	S-K-24	DETAIL SHEARWALL W3	1 : 20	19/03/25					
77	S-K-25	DETAIL SHEARWALL W4	1 : 20	19/03/25					
78	S-K-26	DETAIL SHEARWALL W4	1 : 20	19/03/25					
		DENAH, POTONGAN & DETAIL RAMP							
79	S-R-01	DENAH RAMP #1	1:50, NTS	19/03/25					
80	S-R-02	POTONGAN & DETAIL RAMP #1	1:50, 1:10	19/03/25					
81	S-R-03	DENAH RAMP #2	1:50, NTS	19/03/25					
82	S-R-04	POTONGAN & DETAIL RAMP #2	1:50, 1:10	19/03/25					
		DENAH, POTONGAN & DETAIL TANGGA							
83	S-T-01	DENAH TANGGA FS-1	1 : 50	19/03/25					
84	S-T-02	DENAH TANGGA FS-1	1 : 50	19/03/25					
85	S-T-03	DENAH & POTONGAN TANGGA FS-1	1 : 50	19/03/25					
86	S-T-04	DETAIL TANGGA FS-1	1 : 10	19/03/25					
87	S-T-05	DENAH TANGGA FS-2	1 : 50	19/03/25					
88	S-T-06	DENAH TANGGA FS-2	1 : 50	19/03/25					
89	S-T-07	DENAH & POTONGAN TANGGA FS-2	1 : 50	19/03/25					
90	S-T-08	DETAIL TANGGA FS-2	1 : 10	19/03/25					
91	S-T-09	DENAH TANGGA 1	1 : 50	19/03/25					
92	S-T-10	POTONGAN TANGGA 1	1 : 25	19/03/25					
93	S-T-11	DENAH, POTONGAN & DETAIL TANGGA 2	1:50, 1:20, 1:10	19/03/25					
94	S-T-12	DENAH, POTONGAN & DETAIL TANGGA GYM	1:50, 1:20, 1:10	19/03/25					
		DENAH, POTONGAN & DETAIL CANOPY							
95									
96									
97									
98									
99									
100									

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NOTES

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PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : f_c = 35 MPa
PODIAL :
KOLOM : f_c = 35 MPa
BALOK, PELAT LANTAI : f_c = 30 MPa
TOWER :
KOLOM, SHEARWALL, LINK BEAM :
- GWT - L9 : f_c = 45 MPa
- L10 - ATAP LIFT : f_c = 40 MPa
BALOK, PELAT :
- GWT - L9 : f_c = 35 MPa
- L10 - ATAP LIFT : f_c = 30 MPa

4. MUTU TULANGAN :
D = 10, BJTS 420 (fy=420 MPa)
D > 12, BJTS 420 (fy=420 MPa)
M (WIREMESH), BJTS 520 (fy=520 MPa)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360

6. MUTU LAS : E-70xx

7. MUTU BAUT : HTB A 325

8. FTL GF ±0.00 = +18.00 (KONTUR)

AREA BASAH

ISSUED

No.	DESCRIPTION	DATE

REVISION

No.	REVISIONS	DATE

KEY PLAN :

PROJECT TITLE :
UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :

blueantz
Sulawesi Park, Office Block C No.39 A, KAL. Mera Mera, Kota 70200
Phone : (081-25) 57947219 Fax : (081-25) 57947220 E-mail : info@blueantz.com
INDONESIA

STRUCTURE CONSULTANT :

KETIRA ENGINEERING CONSULTANTS
Ketira Engineering Consultants
Telp. : 08000082 (Operating System) & Lines
Jakarta 10000 INDONESIA

MECHANICAL & ELECTRICAL CONSULTANT :

PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01 - J. Pahlawan Selty, Serpong Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5370217
Email : samasta.ama@samastatamp.com Website : www.samastatamp.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

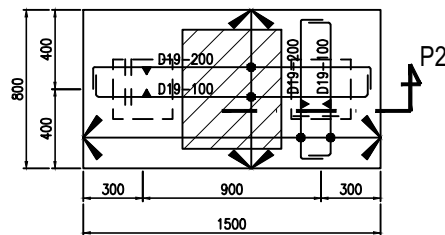
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DRAWING TITLE

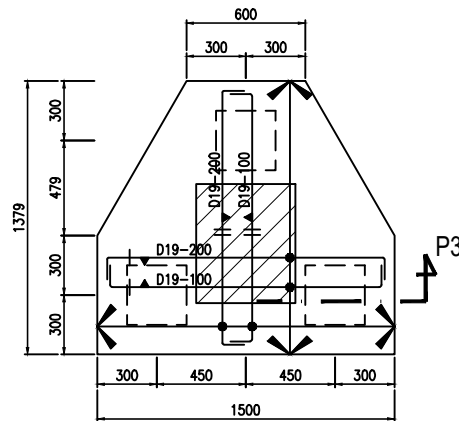
DAFTAR GAMBAR

Drawn By		DATE	
Job Captain		DATE	
Project Architect	—	DATE	
Project Manager	—	DATE	
Project Director	ANNIE RETIKA, MSc	DATE	
OWNER APPROVAL		DATE	
SCALE	NTS		
ISSUED FOR :	REVISION :	DRAWING NUMBER :	
TENDER	0	S-00	
DATE :	PROJECT CODE :	FILE NUMBER:	
19 MARET 2025	.		

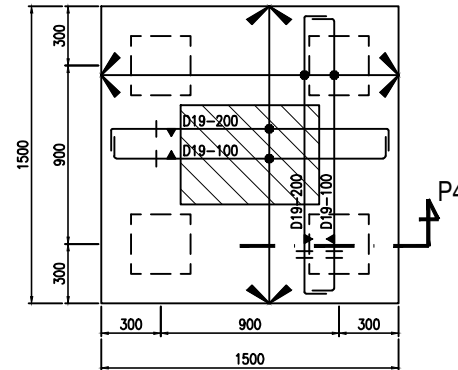
Indira
FOR TENDER



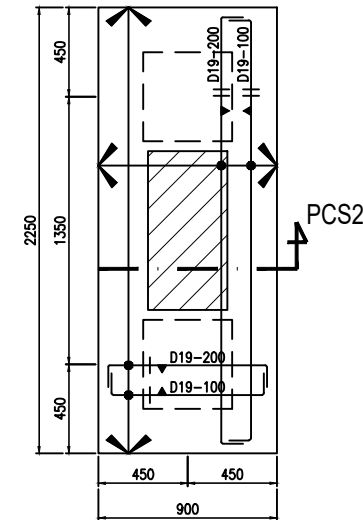
DETAIL P2
SKALA 1:20



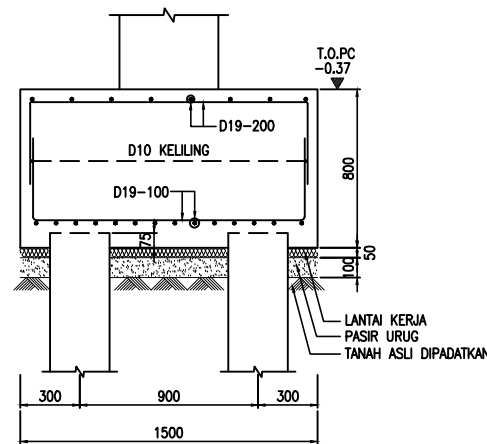
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SKALA 1:20



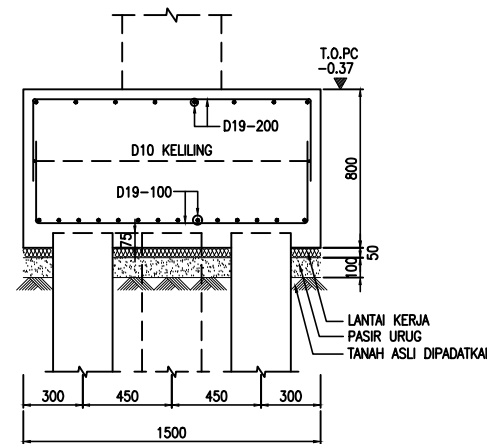
DETAIL P4
SKALA 1:20



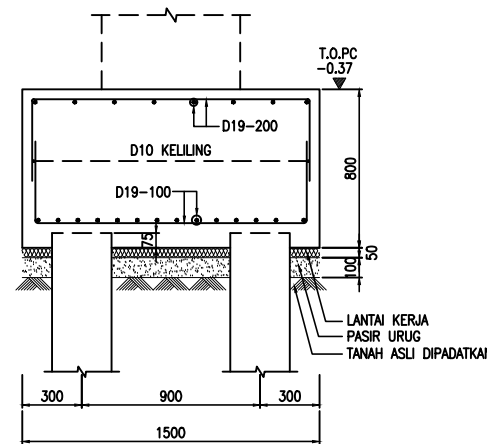
DETAIL PCS2
SKALA 1:20



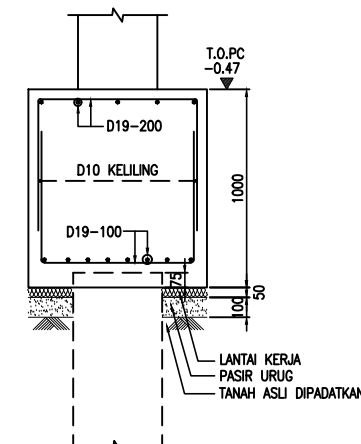
POTONGAN P2
SKALA 1:20



POTONGAN P3
SKALA 1:20



POTONGAN P4
SKALA 1:20



POTONGAN PCS2
SKALA 1:20

Signature

FOR TENDER

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- SEMUA ELEVASI LANTAI DALAM METER.
- MUTU BETON :
TANG PANCANG Ø 300X300, 450X450 : $f_c = 45$ MPa
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : $f_c = 35$ MPa

PODIUM :

KOLOM : $f_c = 35$ MPa
BALOK, PELAT LANTAI : $f_c = 30$ MPa

TOWER :

KOLOM, SHEARWALL, LINK BEAM :
- GWT - L9 : $f_c = 45$ MPa
- L10 - ATAP LIFT : $f_c = 40$ MPa

BALOK, PELAT :

- GWT - L9 : $f_c = 35$ MPa
- L10 - ATAP LIFT : $f_c = 30$ MPa

4. MUTU TULANGAN :

D = 10, BJTS 420 ($f_y=420$ MPa)
D > 12, BJTS 420 ($f_y=420$ MPa)
M (WIREMESH), BJTS 520 ($f_y=520$ MPa)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360

6. MUTU LAS : E-70xx

7. MUTU BAUT : HTB A 325

8. FTL GF $\pm 0.00 = +18.00$ (KONTUR)

AREA BASAH

ISSUED

No.	DESCRIPTION	DATE
-----	-------------	------

REVISION

No.	REVISIONS	DATE
-----	-----------	------

KEY PLAN :

PROJECT TITLE :

UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :

blueantz

Sullivan Park, Office Block 2 No.18 J. K.A. New Mangrove No.20 Jakarta Pusat 10220
Phone : (62-21) 57947219 Fax : (62-21) 57947220 E-mail : info@blueantz.com
INDONESIA

STRUCTURE CONSULTANT :

KETIRA ENGINEERING CONSULTANTS
Ruko Golden Boulevard, Blok V No. 01 J. Pahlawan Selby, Serpong Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5332117
Email : samasta.umar@samastamp.com Website : www.samastamp.com

MECHANICAL & ELECTRICAL CONSULTANT :

PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01 J. Pahlawan Selby, Serpong Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5332117
Email : samasta.umar@samastamp.com Website : www.samastamp.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE

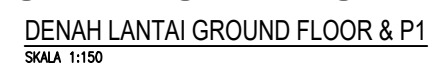
DETAIL PILECAP

Drawn By		DATE
Job Captain		DATE
Project Architect	-	DATE
Project Manager	-	DATE
Project Director	-	DATE
OWNER APPROVAL		DATE

SCALE 1:20

ISSUED FOR :	REVISION :	DRAWING NUMBER :
TENDER	-	S-23

DATE :	PROJECT CODE :	FILE NUMBER:
19 MARET 2025	.	



Johnna,

FOR TENDER

NOTES

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1. SEMUA UKURAN DALAM MILIMETER.
2. SEMUA ELEVASI LANTAI DALAM METER.
3. MUTU BETON :
TANG PANGCANG : 300X300, 450X450 : $f_c = 45 \text{ MPa}$
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : $f_c = 35 \text{ MPa}$

PODIUM :

KOLOM : $f_c = 35 \text{ MPa}$
BALOK, PELAT LANTAI : $f_c = 30 \text{ MPa}$

TOWER :

KOLOM, SHEARWALL, LINK BEAM :
- GWT - L9 : $f_c = 45 \text{ MPa}$
- L10 - ATAP LIFT : $f_c = 40 \text{ MPa}$

BALOK, PELAT :
- GWT - L9 : $f_c = 35 \text{ MPa}$
- L10 - ATAP LIFT : $f_c = 30 \text{ MPa}$

4. MUTU TULANGAN :
 $D = 10$, BJTS 420 ($f_y = 420 \text{ MPa}$)
 $D > 12$, BJTS 420 ($f_y = 420 \text{ MPa}$)
M (WIREMESH), BJTS 520 ($f_y = 520 \text{ MPa}$)
5. MUTU BAJA : BJ 37 / SS 41 / Fe 360
6. MUTU LAS : E-70xx
7. MUTU BAIT : HTB A 325
8. FTL GF $\pm 0.00 = +18.00$ (KONTUR)

AREA BASAH

ISSUED

No.	DESCRIPTION	DATE

REVISION

No.	REVISIONS	DATE

KEY PLAN :



PROJECT TITLE :

UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :

blueantz
Sulawesi Park, Office Block C No. 28 & 29, K.A. Maw Maw, Kota Manado, Sulawesi Utara 95111
Phone : (+62-43) 5194219 Fax : (+62-43) 5194220 E-mail : info@blueantz.com

STRUCTURE CONSULTANT :

KETIRA ENGINEERING CONSULTANTS
Ketira Engineering Consultants
No. 13000000 (Building System) & Lantai
Jalan Karet 10000 INDONESIA

MECHANICAL & ELECTRICAL CONSULTANT :
PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01, Jl. Pahlawan Sebelas, Serpong Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5332117
Email : samasta.ama@samastarekayasa.com Website : www.samastarekayasa.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE

DENAH PELAT LANTAI
GROUND FLOOR & P1

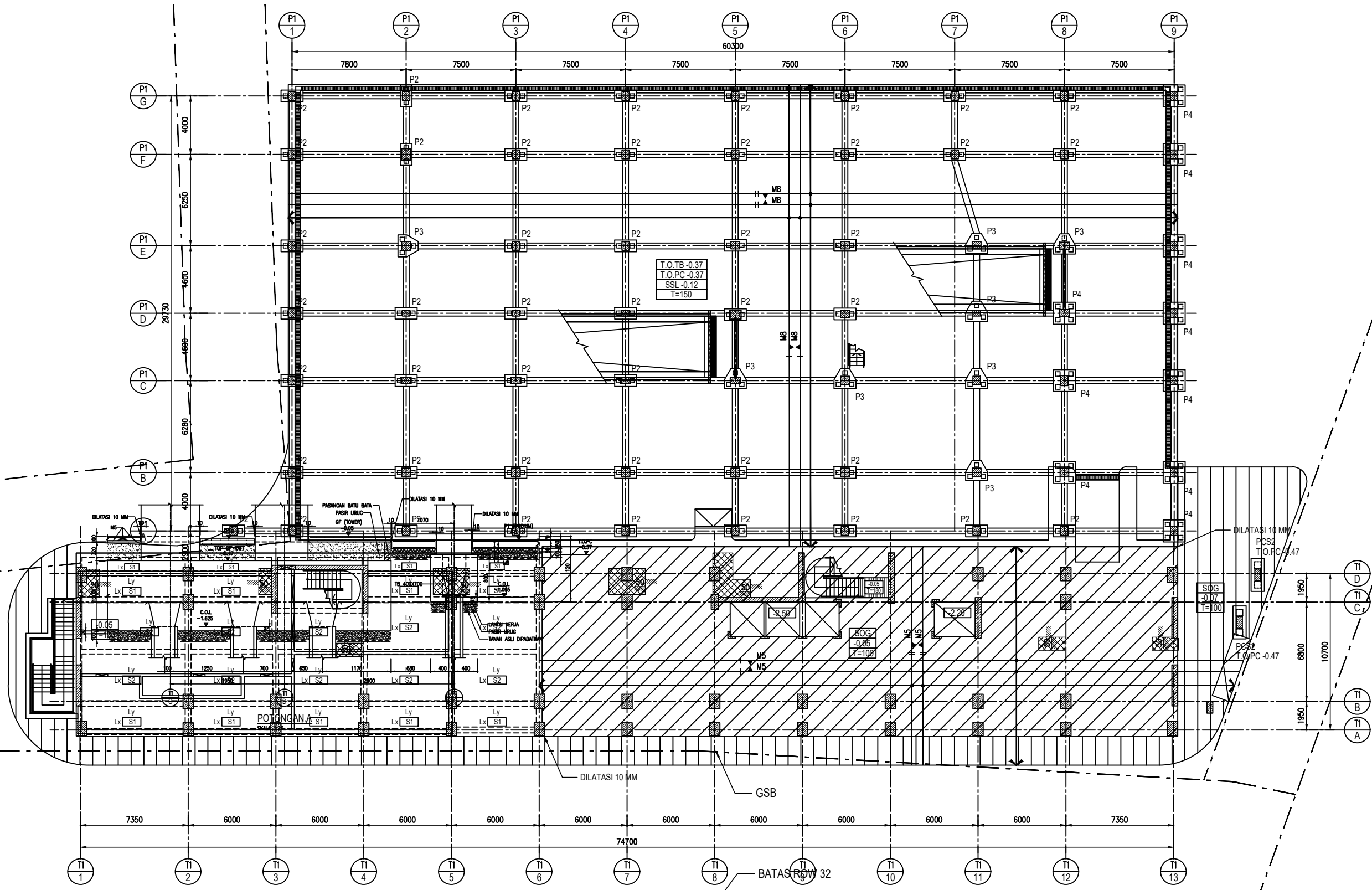
Drawn By		DATE
Job Captain		DATE
Project Architect		DATE
Project Manager		DATE
Project Director		DATE
OWNER APPROVAL		DATE

SCALE : 1:150, 1:25

ISSUED FOR : TENDER REVISION : - DRAWING NUMBER : S-22

DATE : 19 MARET 2025 PROJECT CODE : FILE NUMBER :

FOR TENDER



DENAH PELAT LANTAI GROUND FLOOR & P1
SKALA 1:150

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PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : $f_c = 35$ MPa
PODLUM :
KOLOM : $f_c = 35$ MPa
BALOK, PELAT LANTAI : $f_c = 30$ MPa
TOWER :
KOLOM, SHEARWALL, LINK BEAM :
- GWT - L9 : $f_c = 45$ MPa
- L10 - ATAP LIFT : $f_c = 40$ MPa
BALOK, PELAT :
- GWT - L9 : $f_c = 35$ MPa
- L10 - ATAP LIFT : $f_c = 30$ MPa
4. MUTU TULANGAN :
D = 10, BJTS 420 ($f_y=420$ MPa)
D > 12, BJTS 420 ($f_y=420$ MPa)
M (WIREMESH), BJTS 520 ($f_y=520$ MPa)
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6. MUTU LAS : E-70xx
7. MUTU BAIT : HTB A 325
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AREA BASAH

ISSUED		
No.	DESCRIPTION	DATE
REVISION		
No.	REVISIONS	DATE

KEY PLAN :

PROJECT TITLE :
UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :
blueantz
Suburban Park, Office Block C No.19 A, K.A. New Mangrove (Kor.20) Jakarta Pusat 10220
Phone : (021-25) 5194219 Fax : (021-25) 5194220 E-mail : info@blueantz.com
blueantz.com

STRUCTURE CONSULTANT :
KETIRA ENGINEERING CONSULTANTS
Ketira Engineering Consultants
No. 1000082 (Building System) & Lines
Jakarta 10000 INDONESIA

MECHANICAL & ELECTRICAL CONSULTANT :
PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01 J. Pahlawan Senayan, Setiabudi Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5332117
Email : samasta.ama@samastatamp.com Website : www.samastatamp.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE

DENAH LANTAI LEVEL 2 & FASILITAS

Drawn By		DATE
Job Captain		DATE
Project Architect	-	DATE
Project Manager	-	DATE
Project Director	-	DATE
OWNER APPROVAL		DATE

SCALE : 1:150, 1:20

ISSUED FOR : TENDER

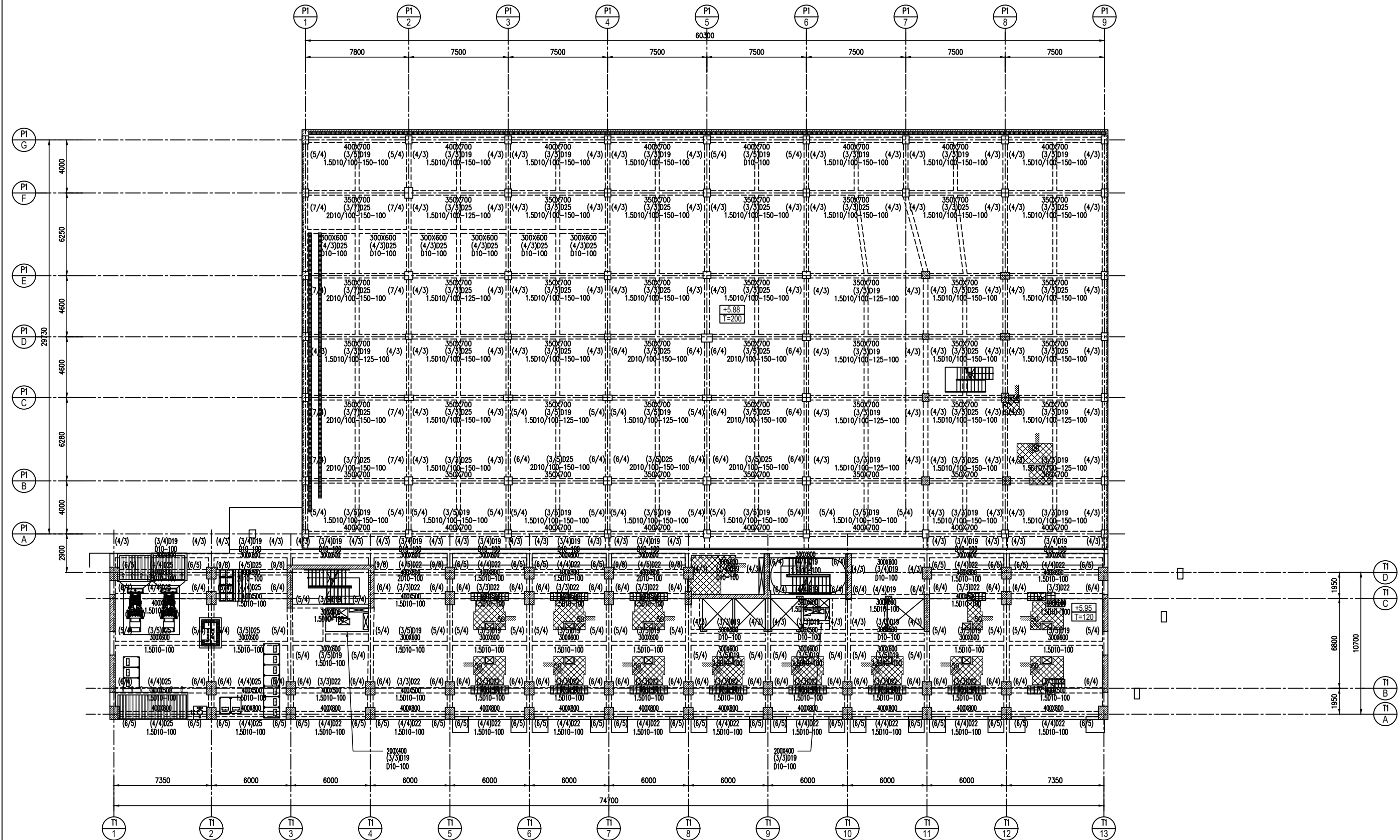
REVISION : -

DRAWING NUMBER : S-27

DATE : 19 MARET 2025

PROJECT CODE : -

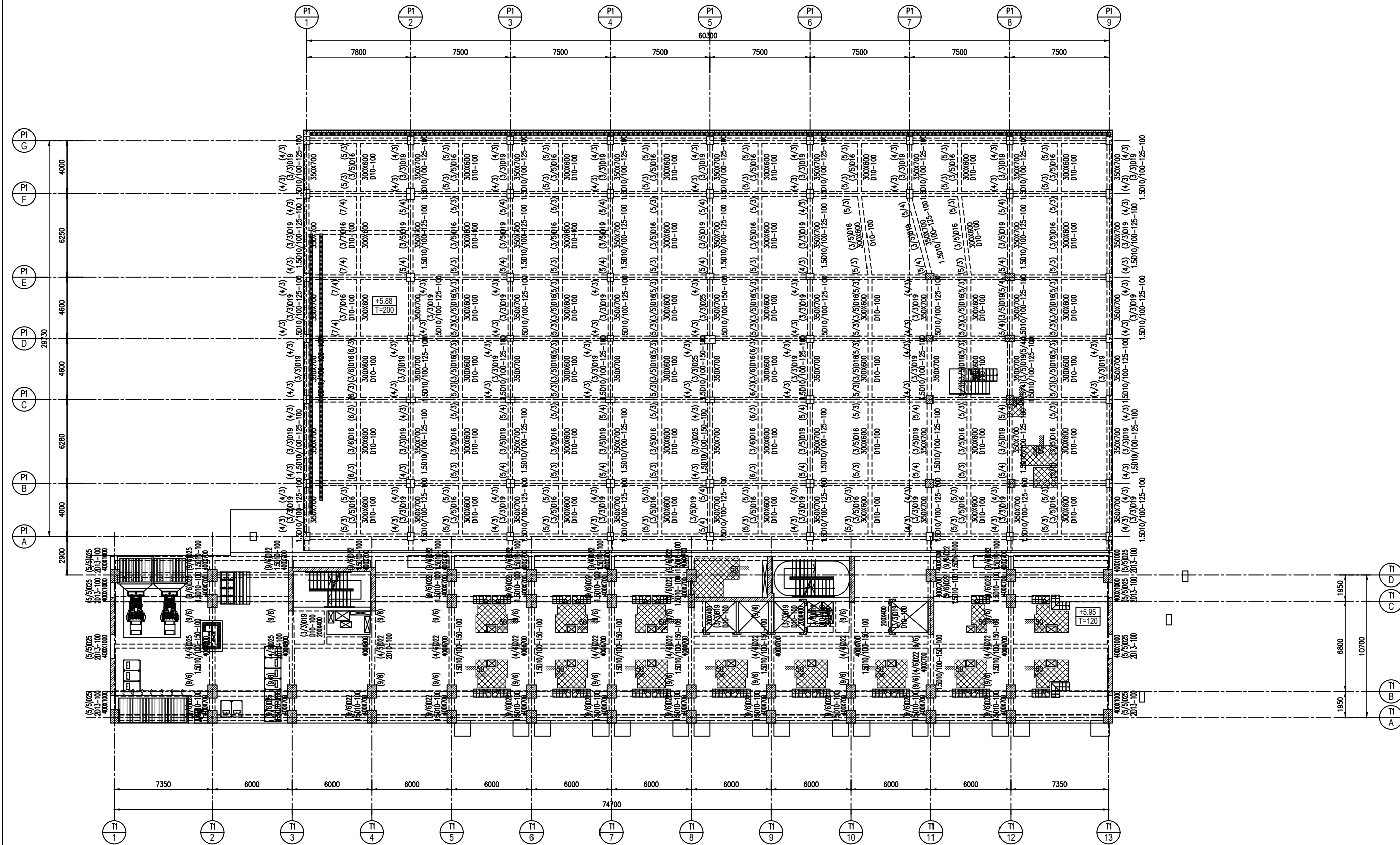
FILE NUMBER:



DENAH LANTAI LEVEL 2 & FASILITAS
SKALA 1:150

Signature

FOR TENDER



DENAH LANTAI LEVEL 2 & FASILITAS
SKALA 1:150

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PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : $f_c = 35$ MPa

PODILUM :

KOLOM : $f_c = 35$ MPa
BALOK, PELAT LANTAI : $f_c = 30$ MPa

TOWER :

KOLOM, SHEARWALL, LINK BEAM :
- GWT - L9 : $f_c = 45$ MPa
- L10 - ATAP LIFT : $f_c = 40$ MPa
BALOK, PELAT :
- GWT - L9 : $f_c = 35$ MPa
- L10 - ATAP LIFT : $f_c = 30$ MPa

4. MUTU TULANGAN :

D = 10, BJTS 420 ($f_y=420$ MPa)
D > 12, BJTS 420 ($f_y=420$ MPa)
M (WIREMESH), BJTS 520 ($f_y=520$ MPa)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360

6. MUTU LAS : E-70xx

7. MUTU BAUT : HTB A 325

8. FTL GF ±0.00 = +18.00 (KONTUR)

AREA BASAH

ISSUED

No.	DESCRIPTION	DATE

REVISION

No.	REVISIONS	DATE

KEY PLAN :

PROJECT TITLE :

UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :

blueantz

Subdivisi, Office Block : No. 19 & 20, Jalan Raya Kuningan, Kota Baru, Johor Darul Ta'zim 81000
Phone : (61-2) 5194219 Fax : (61-2) 5194220 E-mail : info@blueantz.com

STRUCTURE CONSULTANT :

KETIRA ENGINEERING CONSULTANTS

Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01, J. Pahlawan Sentra, Serpong Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5332117
Email : ketira@ketira.com Website : www.ketira.com

MECHANICAL & ELECTRICAL CONSULTANT :

PT. SAMASTA REKAYASA TEKNIK

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE

DENAH LANTAI LEVEL 2 & FASILITAS

Drawn By

Job Captain

Project Architect

Project Manager

Project Director

OWNER APPROVAL

SCALE

ISSUED FOR :

TENDER

REVISION :

DATE :

19 MARET 2025

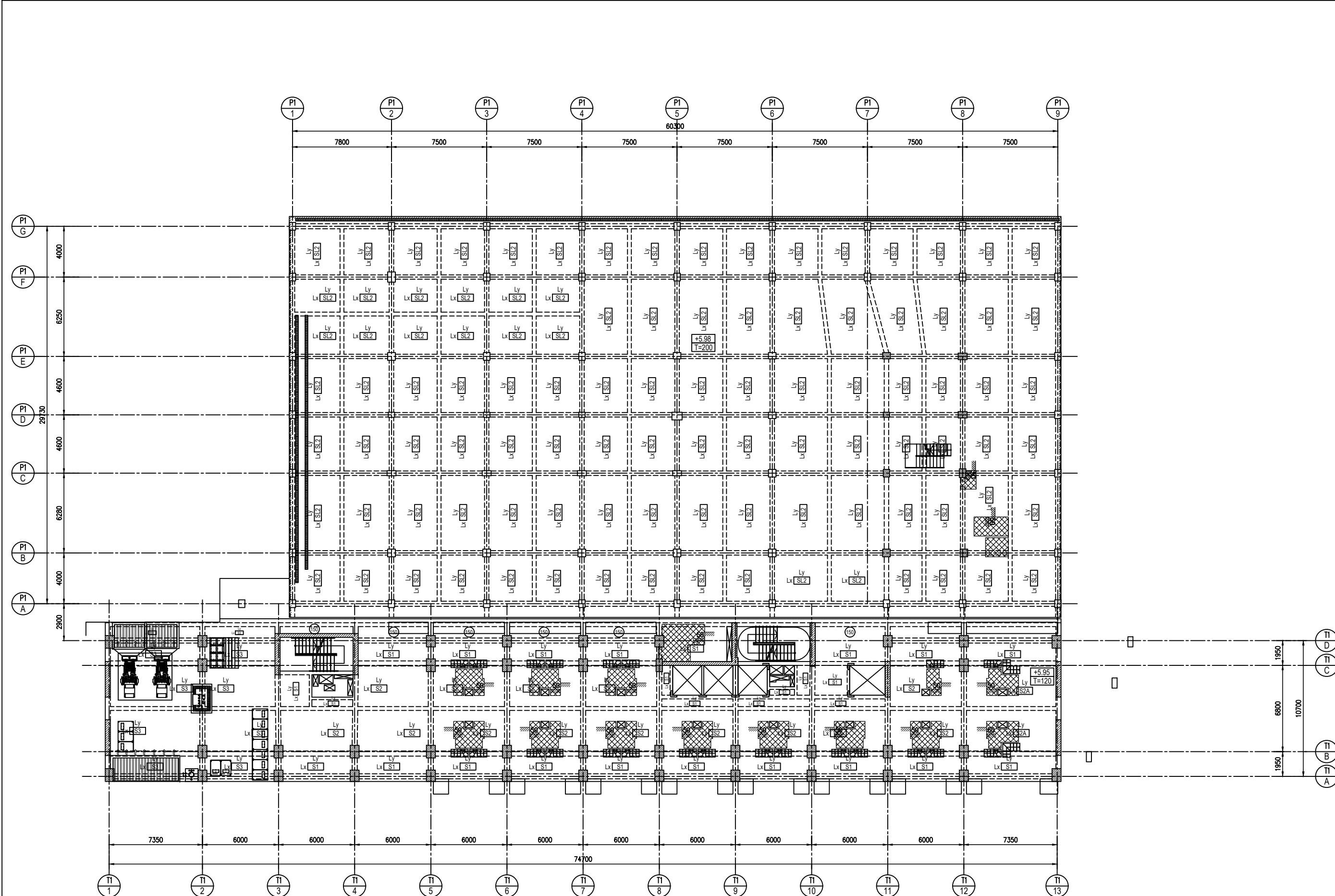
PROJECT CODE :

FILE NUMBER :

DRAWING NUMBER :

S-28

FOR TENDER



DENAH PELAT LANTAI LEVEL 2 & FASILITAS
SKALA 1:150

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- NOTES
- All construction drawings used on site to comply with approved permit drawings.
Blue Antz will not responsible to any breach of compliances.
1. SEMUA UKURAN DALAM MILIMETER.
2. SEMUA ELEVASI LANTAI DALAM METER.
3. MUTU BETON :
TANG PANCANG Ø 300X300, 450X450 : $f_c = 45$ MPa
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : $f_c = 35$ MPa
- PODILUM :
KOLOM : $f_c = 35$ MPa
BALOK, PELAT LANTAI : $f_c = 30$ MPa
- TOWER :
KOLOM, SHEARWALL, LINK BEAM :
- GWT - L9 : $f_c = 45$ MPa
- L10 - ATAP LIFT : $f_c = 40$ MPa
BALOK, PELAT :
- GWT - L9 : $f_c = 35$ MPa
- L10 - ATAP LIFT : $f_c = 30$ MPa
4. MUTU TULANGAN :
D = 10, BJTS 420 ($f_y=420$ MPa)
D > 12, BJTS 420 ($f_y=420$ MPa)
M (WIREMESH), BJTS 520 ($f_y=520$ MPa)
5. MUTU BAJA : BJ 37 / SS 41 / Fe 360
6. MUTU LAS : E-70xx
7. MUTU BAUT : HTB A 325
8. FTL GF $\pm 0.00 = +18.00$ (KONTUR)
- AREA BASAH

ISSUED		
No.	DESCRIPTION	DATE
REVISION		
No.	REVISIONS	DATE

KEY PLAN :

PROJECT TITLE :
UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :
blueantz
Sulawesi Park, Office Block C No.39 A, K.A. Mac Mangrove Km.20, Jalan Puncak 10220
Phone : (041-2) 5194219 Fax : (041-2) 5194233 E-mail : info@blueantz.com
blueantz.com

STRUCTURE CONSULTANT :
KETIRA ENGINEERING CONSULTANTS
Ketira Engineering Consultants
No. 1000000 (Building System) & Lines
Jember 69000 INDONESIA

MECHANICAL & ELECTRICAL CONSULTANT :
PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01 - J. Pahlawan Sentra, Serpong Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5332117
Email : samasta.ama@samastatamp.com Website : www.samastatamp.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE
**DENAH PELAT LANTAI
LEVEL 2 & FASILITAS**

Drawn By		DATE
Job Captain		DATE
Project Architect	-	DATE
Project Manager	-	DATE
Project Director	-	DATE
OWNER APPROVAL		DATE

SCALE 1:150

ISSUED FOR : TENDER

REVISION : -

DRAWING NUMBER : S-29

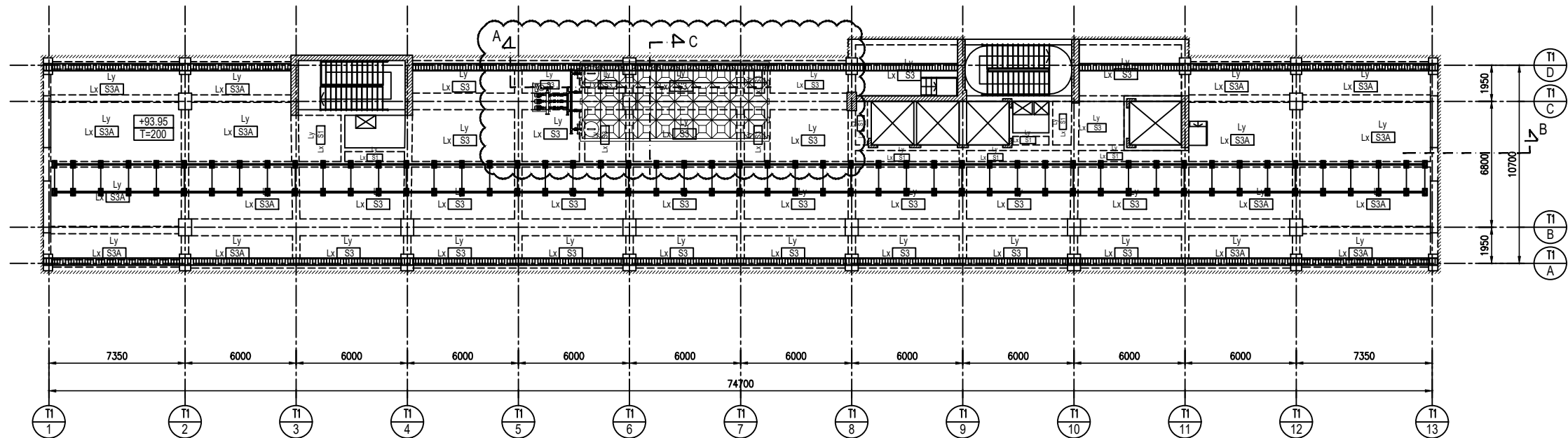
DATE : 19 MARET 2025

PROJECT CODE : .

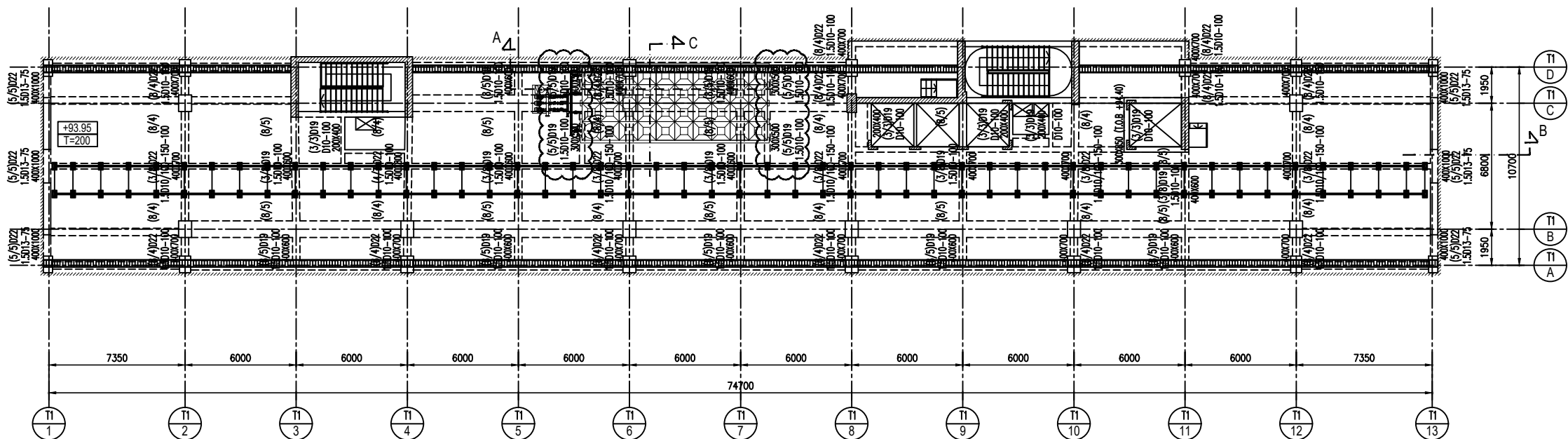
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Samasta

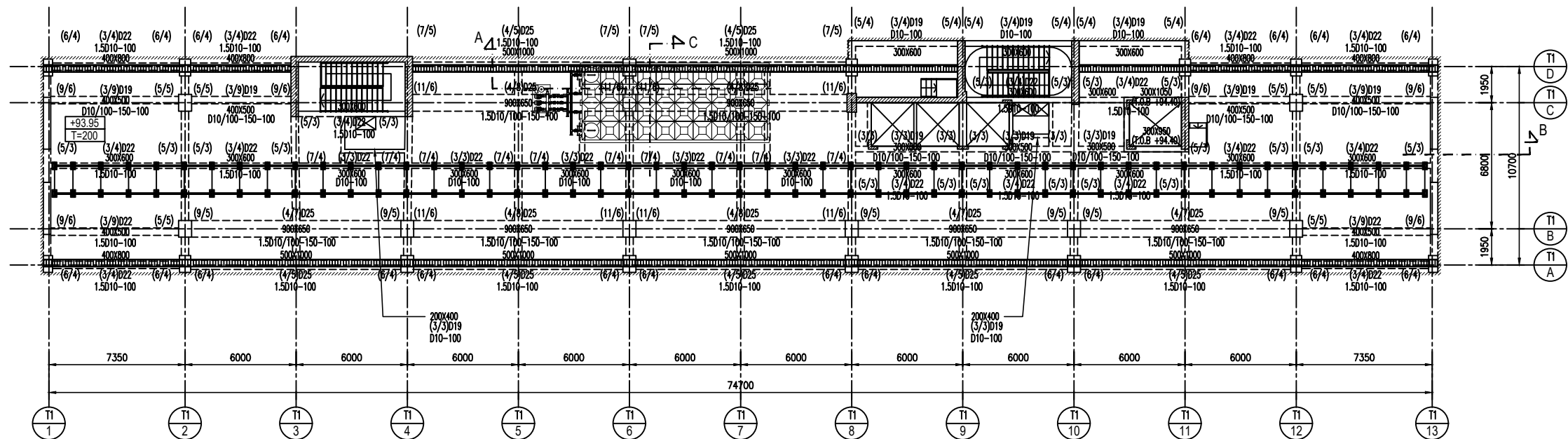
FOR TENDER



DENAH PELAT LANTAI LEVEL ATAP
SKALA 1:150



DENAH LANTAI LEVEL ATAP
SKALA 1:150



DENAH LANTAI LEVEL ATAP
SKALA 1:150

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- NOTES
- All construction drawings used on site to comply with approved permit drawings.
 - Blue Antz will not responsible to any breach of compliances.
 - SEMUA UKURAN DALAM MILIMETER.
 - SEMUA ELEVASI LANTAI DALAM METER.
 - MUTU BETON :
 - TIANG PANGCANG : 300X300, 450X450 : $f_c = 45 \text{ MPa}$
 - PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : $f_c = 35 \text{ MPa}$
 - PODOLIM :
 - KOLOM : $f_c = 35 \text{ MPa}$
 - BALOK, PELAT LANTAI : $f_c = 30 \text{ MPa}$
 - TOWER :
 - KOLOM, SHEARWALL, LINK BEAM :
 - GWT - L9 : $f_c = 45 \text{ MPa}$
 - L10 - ATAP LIFT : $f_c = 40 \text{ MPa}$
 - BALOK, PELAT :
 - GWT - L9 : $f_c = 35 \text{ MPa}$
 - L10 - ATAP LIFT : $f_c = 30 \text{ MPa}$
 - MUTU TULANGAN :
 - D = 10, BJTS 420 ($f_y = 420 \text{ MPa}$)
 - D > 12, BJTS 420 ($f_y = 420 \text{ MPa}$)
 - M (WIREMESH), BJTS 520 ($f_y = 520 \text{ MPa}$)
 - MUTU BAJA : BJ 37 / SS 41 / Fe 360
 - MUTU LAS : E-70xx
 - MUTU BAIT : HTB A 325
 - FTL GF $\pm 0.00 = +18.00$ (KONTUR)
 - AREA BASAH

ISSUED		
No.	DESCRIPTION	DATE
REVISION		
No.	REVISIONS	DATE

KEY PLAN :

PROJECT TITLE :
UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :
blueantz

STRUCTURE CONSULTANT :

KETIRA ENGINEERING CONSULTANTS

MECHANICAL & ELECTRICAL CONSULTANT :
PT. SAMASTA REKAYASA TEKNIK

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE
DENAH LANTAI ATAP

Drawn By		DATE
Job Captain		DATE
Project Architect	-	DATE
Project Manager	-	DATE
Project Director	-	DATE
OWNER APPROVAL		DATE

SCALE 1:150

ISSUED FOR : TENDER

REVISION : -

DRAWING NUMBER : S-48

DATE : 24 MARET 2025

PROJECT CODE : .

FILE NUMBER:

Signature
FOR TENDER

KETERANGAN :

DOUBLE SLAB +10.95 & +10.02

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NOTES
All construction drawings used on site to comply with approved permit drawings.
Blue Antz will not responsible to any breach of compliances.

1. SEMUA UKURAN DALAM MILIMETER.
2. SEMUA ELEVASI LANTAI DALAM METER.
3. MUTU BETON :
TANG PANCANG 300X300, 450X450 : $f_c = 45 \text{ MPa}$
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : $f_c = 35 \text{ MPa}$
PODLUM :
KOLAM : $f_c = 35 \text{ MPa}$
BALOK, PELAT LANTAI : $f_c = 30 \text{ MPa}$
TOWER :
KOLAM, SHEARWALL, LINK BEAM :
- GWT - L9 : $f_c = 45 \text{ MPa}$
- L10 - ATAP LIFT : $f_c = 40 \text{ MPa}$
BALOK, PELAT :
- GWT - L9 : $f_c = 35 \text{ MPa}$
- L10 - ATAP LIFT : $f_c = 30 \text{ MPa}$

4. MUTU TULANGAN :
D = 10, BJTS 420 ($f_y=420 \text{ MPa}$)
D > 12, BJTS 420 ($f_y=420 \text{ MPa}$)
M (WIREMESH), BJTS 520 ($f_y=520 \text{ MPa}$)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360
6. MUTU LAS : E-70xx
7. MUTU BOUT : HTB A 325
8. FTL GF $\pm 0.00 = +18.00$ (KONTUR)

AREA BASAH

ISSUED

No.	DESCRIPTION	DATE

REVISION

No.	REVISIONS	DATE

KEY PLAN :

PROJECT TITLE :

UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :
blue antz
Sulawesi Park, Office Block 2 No.39 & 41A, Jalan Mawar Kencana, Jakarta Pusat 10220
Phone : (62-21) 57947919 Fax : (62-21) 57947920 E-mail : info@blueantz.com
blueantz.com

STRUCTURE CONSULTANT :
KETIRA ENGINEERING CONSULTANTS
Ketira Engineering Consultants
Telp. : 0811 5312112
Jakarta 10000 INDONESIA

MECHANICAL & ELECTRICAL CONSULTANT :
PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01 J. Pahlawan Senayan, Senayan Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5312112
Email : samasta.ama@samastatamp.com Website : www.samastatamp.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE

DENAH LANTAI L3

Drawn By	DATE
Job Captain	DATE
Project Architect	DATE
Project Manager	DATE
Project Director	DATE
OWNER APPROVAL	DATE

SCALE 1:150

ISSUED FOR : TENDER

REVISION : -

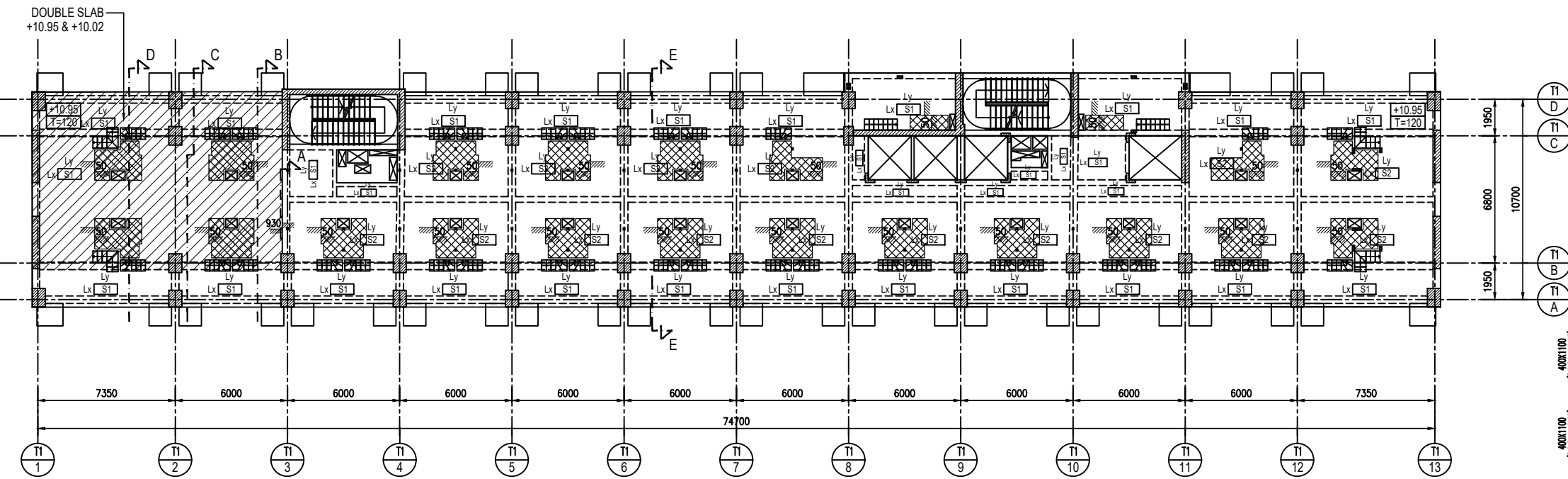
DRAWING NUMBER : S-36

DATE : 19 MARET 2025

PROJECT CODE : FILE NUMBER:

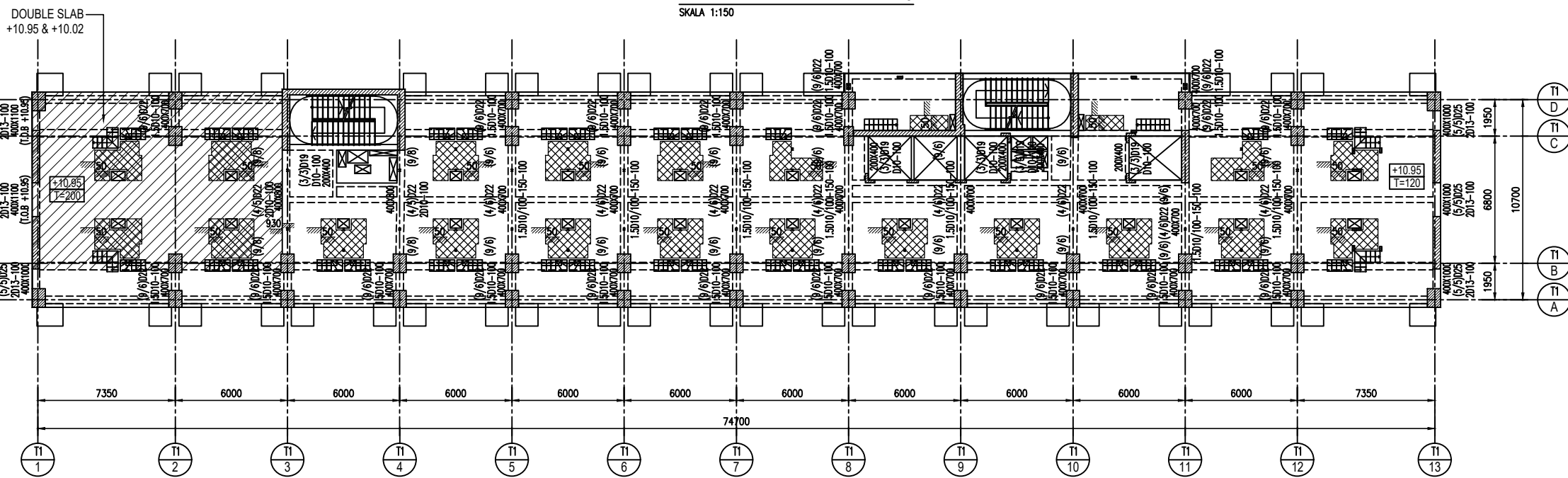
Samasta

FOR TENDER



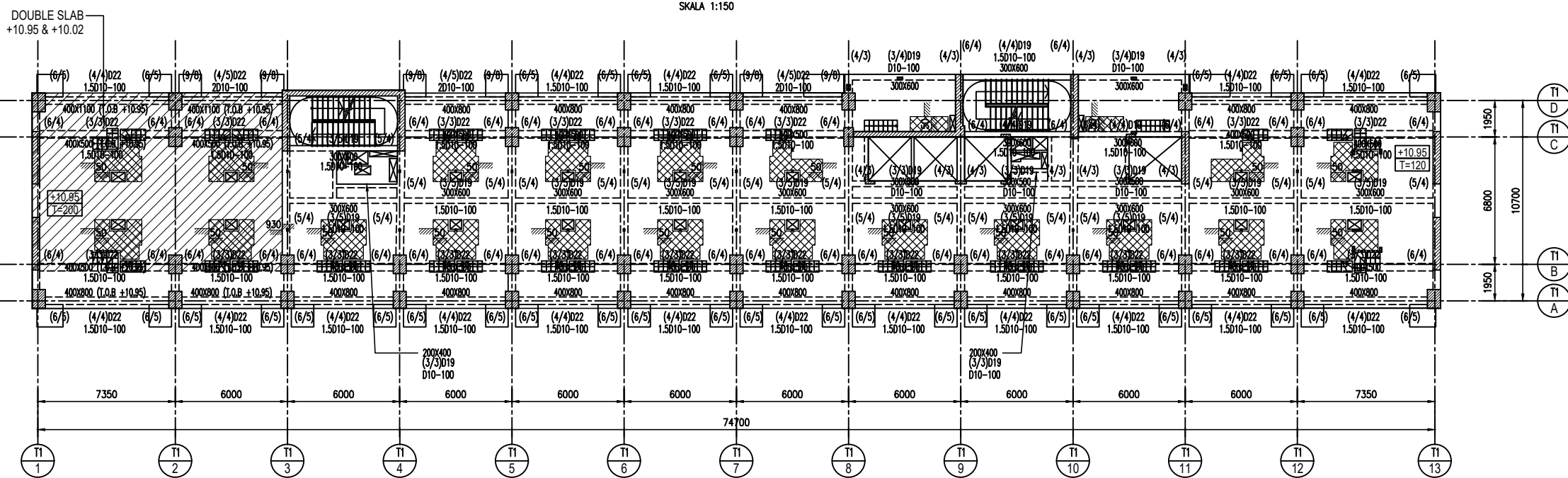
DENAH PELAT LANTAI LEVEL 3

SKALA 1:150



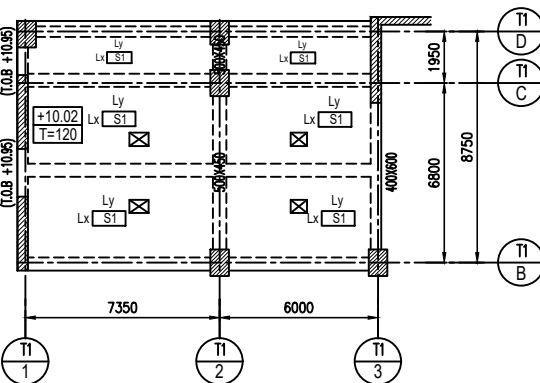
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SKALA 1:150



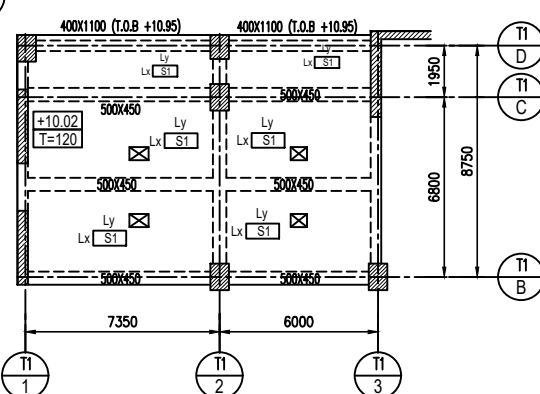
DENAH LANTAI LEVEL 3

SKALA 1:150



DENAH LANTAI LEVEL 3 (+10.02)

SKALA 1:150



DENAH LANTAI LEVEL 3 (+10.02)

SKALA 1:150

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NOTES
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Blue Azint will not responsible to any breach of compliances.

1. SEMUA UKURAN LANTAI MILIMETER.
2. SEMUA ELEVASI LANTAI DAN METER.
3. MUTU BETON :
TANG PANGKANG 33' 300X300, 450X450 : f_c = 45 MPa
PILE CAP, RAFT, THE BEAM, DIVING BASEMENT : f_c = 35 MPa

POKOKUM
KOLOM : f_c = 35 MPa
BALOK, PELAT LANTAI : f_c = 30 MPa

TOWER :
KOLOM, SHEARWALL, LINK BEAM :
- GWT - L9 : f_c = 45 MPa
- L10 - ATAP LIFT : f_c = 40 MPa
BALOK, PELAT :
- GWT - L9 : f_c = 35 MPa
- L10 - ATAP LIFT : f_c = 30 MPa

4. MUTU TULANGAN :
D = 10, BJTS 420 (fy=420 MPa)
D > 12, BJTS 420 (fy=420 MPa)
M (WIREMESH), BJTS 520 (fy=520 MPa)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360
6. MUTU LAS : E-70xx
7. MUTU BULT : HTB A 325
8. FFL GF ±0.00 = +18.00 (KONTUR)

 AREA BASAH



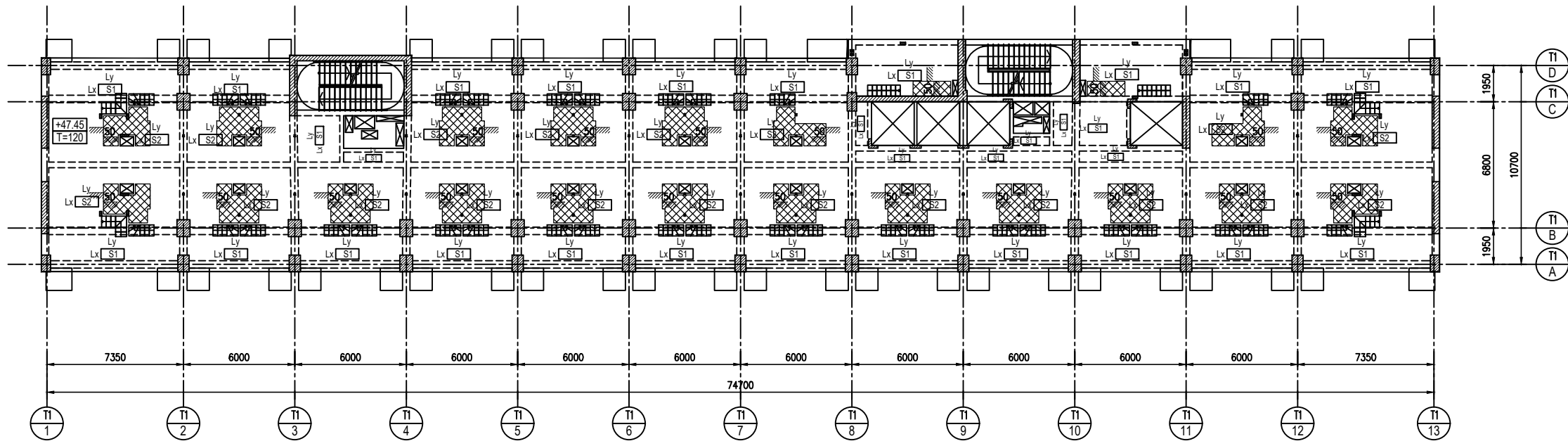
Janetta,
FOR TENDER



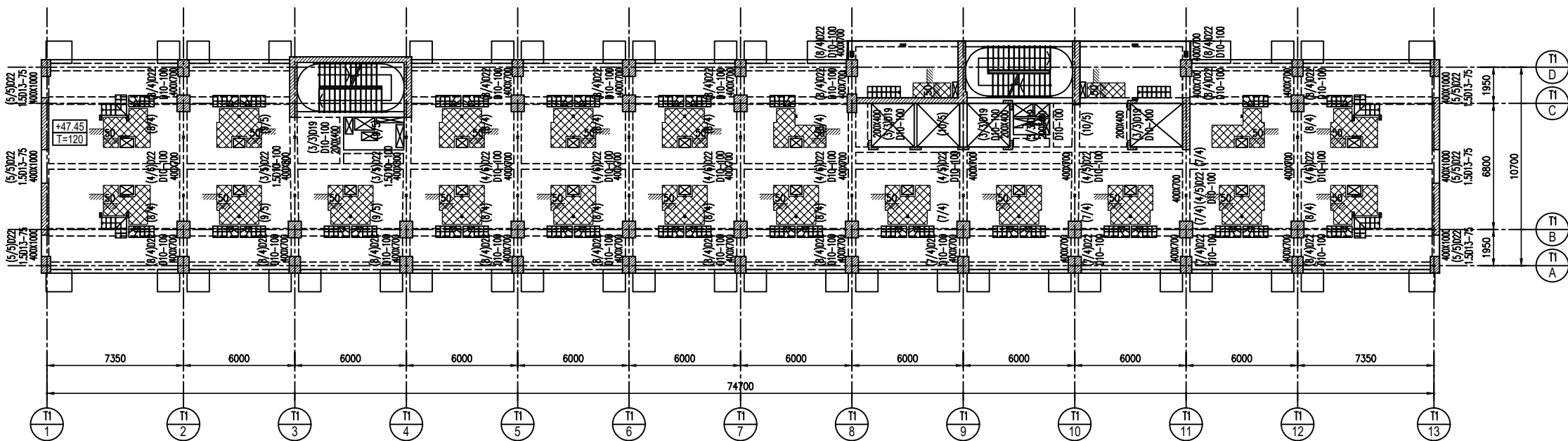
19 MARET 2025	.	
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Jerome,

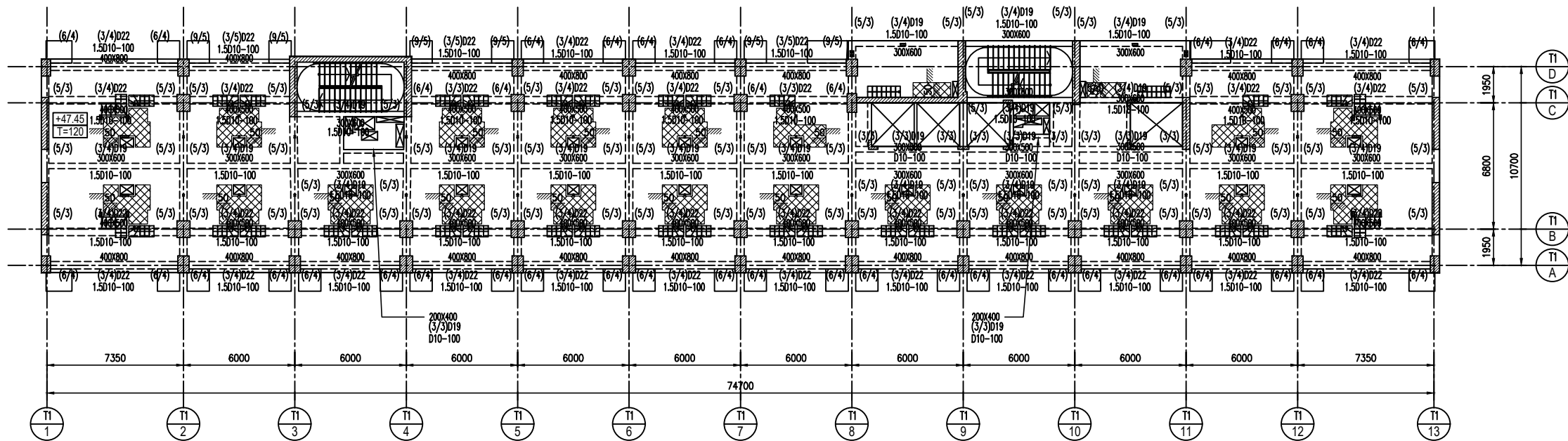
FOR TENDER



DENAH PELAT LANTAI LEVEL 11 - 18
SKALA 1:150



DENAH LANTAI LEVEL 11 - 18
SKALA 1:150



DENAH LANTAI LEVEL 11 - 18
SKALA 1:150

NOTASI	ELEVASI
LEVEL 12	+51.95
LEVEL 13	+56.45
LEVEL 14	+60.95
LEVEL 15	+65.45
LEVEL 16	+69.95
LEVEL 17	+74.45
LEVEL 18	+78.95

NOTES
All construction drawings used on site to comply with approved permit drawings.
Blue Antz will not responsible to any breach of compliances.

1. SEMUA UKURAN DALAM MILIMETER.
2. SEMUA ELEVASI LANTAI DALAM METER.
3. MUTU BETON :
TANG PANCANG Ø 300x300, 450x450 : f_c = 45 MPa
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : f_c = 35 MPa
PODIAL :
KOLAM : f_c = 35 MPa
BALOK, PELAT LANTAI : f_c = 30 MPa

TOWER :
KOLAM, SHEARWALL, LINK BEAM :
- GWT - L9 : f_c = 45 MPa
- L10 - ATAP LIFT : f_c = 40 MPa
BALOK, PELAT :
- GWT - L9 : f_c = 35 MPa
- L10 - ATAP LIFT : f_c = 30 MPa

4. MUTU TULANGAN :
D = 10, BJTS 420 (fy=420 MPa)
D > 12, BJTS 420 (fy=420 MPa)
M (WIREMESH), BJTS 520 (fy=520 MPa)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360
6. MUTU LAS : E-70xx
7. MUTU BAIT : HTB A 325
8. FTL GF ±0.00 = +18.00 (KONTUR)

AREA BASAH

ISSUED		
No.	DESCRIPTION	DATE
REVISION		
No.	REVISIONS	DATE

KEY PLAN :

PROJECT TITLE :
UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :
blueantz
Sulawesi Park, Office Block C No.19 & K.A. New Mangrove Road, 2020
Phone : (041-5) 5194719 Fax : (041-5) 5194720 E-mail : info@blueantz.com
blueantz.com

STRUCTURE CONSULTANT :
KETIRA ENGINEERING CONSULTANTS
Ketira Engineering Consultants
No. 1000000 (Building System) & Lines
Jakarta 10000 INDONESIA

MECHANICAL & ELECTRICAL CONSULTANT :
PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01 J. Pahlawan Senja, Serpong Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5332117
Email : samasta.ama@samastarep.com Website : www.samastarep.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

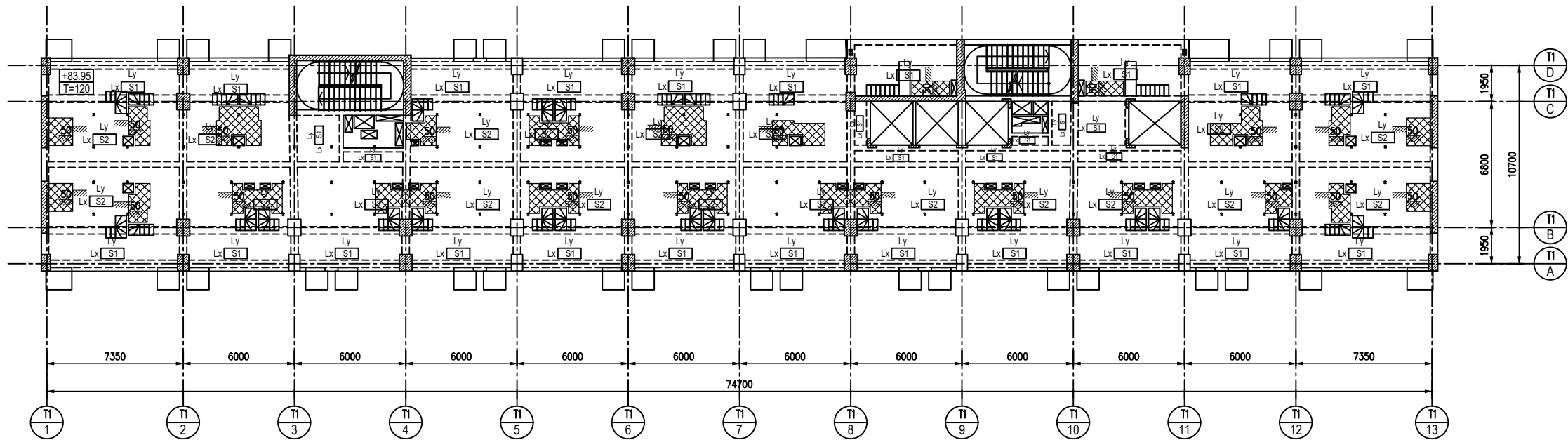
LANDSCAPE CONSULTANT :

DRAWING TITLE
DENAH LANTAI L11 - L18

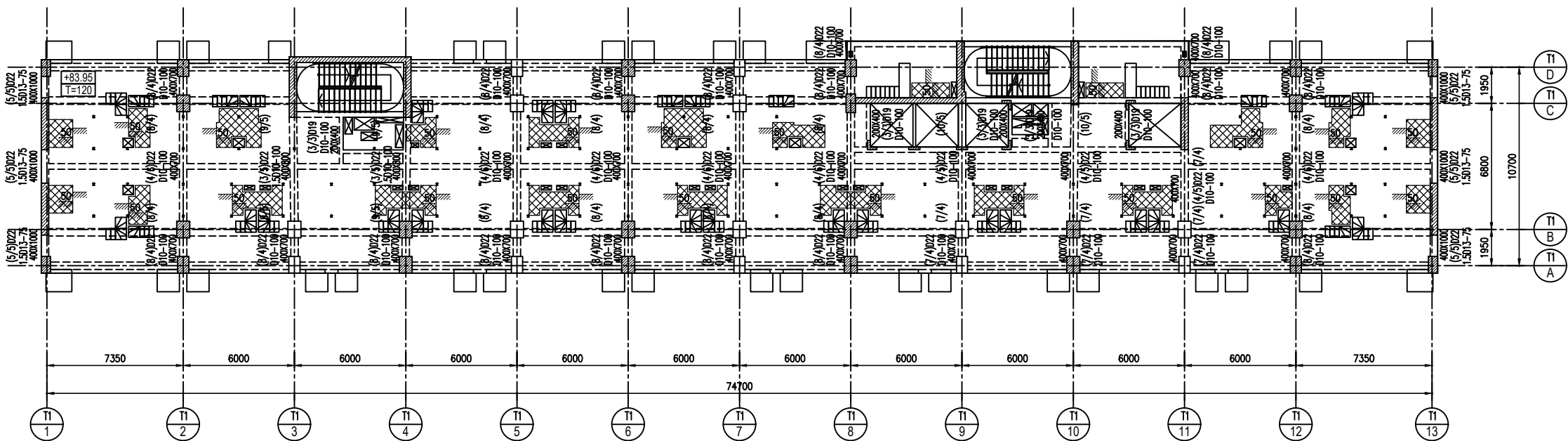
Drawn By		DATE
Job Captain		DATE
Project Architect	-	DATE
Project Manager	-	DATE
Project Director	-	DATE
OWNER APPROVAL		DATE

SCALE	1:150	DRAWING NUMBER :
ISSUED FOR :	REVISION :	S-43
TENDER	-	
DATE :	PROJECT CODE :	FILE NUMBER:
19 MARET 2025	.	

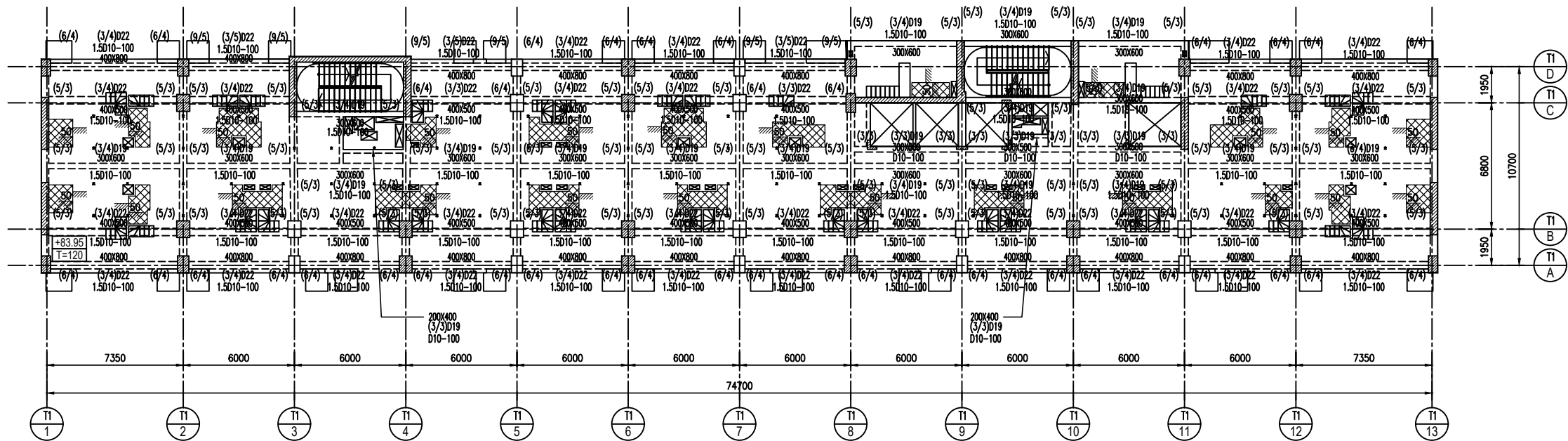
Signature
FOR TENDER



DENAH PELAT LANTAI LEVEL 19
SKALA 1:150



DENAH LANTAI LEVEL 19
SKALA 1:150



DENAH LANTAI LEVEL 19
SKALA 1:150

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NOTES

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1. SEMUA UKURAN DALAM MILIMETER.
2. SEMUA ELEVASI LANTAI DALAM METER.
3. MUTU BETON :
TANG PANCANG Ø 300x300, 450x450 : $f_c = 45$ MPa
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : $f_c = 35$ MPa
PODLUM :
KOLOM : $f_c = 35$ MPa
BALOK, PELAT LANTAI : $f_c = 30$ MPa
TOWER :
KOLOM, SHEARWALL, LINK BEAM :
- GWT - L9 : $f_c = 45$ MPa
- L10 - ATAP LIFT : $f_c = 40$ MPa
BALOK, PELAT :
- GWT - L9 : $f_c = 35$ MPa
- L10 - ATAP LIFT : $f_c = 30$ MPa

4. MUTU TULANGAN :
D = 10, BJTS 420 ($f_y = 420$ MPa)
D > 12, BJTS 420 ($f_y = 420$ MPa)
M (WIREMESH), BJTS 520 ($f_y = 520$ MPa)
5. MUTU BAJA : BJ 37 / SS 41 / Fe 360
6. MUTU LAS : E-70xx
7. MUTU BAIT : HTB A 325
8. FTL GF $\pm 0.00 = +18.00$ (KONTUR)

AREA BASAH

ISSUED

No.	DESCRIPTION	DATE

REVISION

No.	REVISIONS	DATE

KEY PLAN :

PROJECT TITLE :

UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :

blueantz

Sulawesi Park, Office Block : No. 19 & 20, Jln. A. Yani, Makassar, Sulawesi Selatan, Indonesia
Phone : (041-2) 5197219 Fax : (041-2) 5197220 E-mail : info@blueantz.com

STRUCTURE CONSULTANT :

KETIRA ENGINEERING CONSULTANTS
Ketira Engineering Consultants
Ketira Engineering Consultants
Ketira Engineering Consultants

MECHANICAL & ELECTRICAL CONSULTANT :

PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01, Jl. Pahlawan Sebelas, Serpong Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5332117
Email : samasta.ama@samastarep.com Website : www.samastarep.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE

DENAH LANTAI L19

Drawn By		DATE
Job Captain		DATE
Project Architect		DATE
Project Manager		DATE
Project Director		DATE
OWNER APPROVAL		DATE

SCALE 1:150

ISSUED FOR :	REVISION :	DRAWING NUMBER :
TENDER	-	S-44

DATE :	PROJECT CODE :	FILE NUMBER :
19 MARET 2025		

Signature

FOR TENDER

NOTASI	ELEVASI
L11	+48.90
L12	+53.40

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NOTES
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1. SEMUA UKURAN DALAM MILIMETER.
2. SEMUA ELEVASI LANTAI DALAM METER.
3. MUTU BETON :
Tiang Pancang Ø 300x300, 450x450 : $f_c = 45 \text{ MPa}$
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : $f_c = 35 \text{ MPa}$
PODLUM :
KOLAM : $f_c = 35 \text{ MPa}$
BALOK, PELAT LANTAI : $f_c = 30 \text{ MPa}$
TOWER :
KOLAM, SHEARWALL, LINK BEAM :
- GWT - L9 : $f_c = 45 \text{ MPa}$
- L10 - ATAP LIFT : $f_c = 40 \text{ MPa}$
BALOK, PELAT :
- GWT - L9 : $f_c = 35 \text{ MPa}$
- L10 - ATAP LIFT : $f_c = 30 \text{ MPa}$

4. MUTU TULANGAN :
D = 10, BJTS 420 ($f_y=420 \text{ MPa}$)
D > 12, BJTS 420 ($f_y=420 \text{ MPa}$)
M (WIREMESH), BJTS 520 ($f_y=520 \text{ MPa}$)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360
6. MUTU LAS : E-70xx
7. MUTU BAUT : HTB A 325
8. FFL GF $\pm 0.00 = +18.00$ (KONTUR)

AREA BASAH

ISSUED		
No.	DESCRIPTION	DATE
REVISION		
No.	REVISIONS	DATE

KEY PLAN :

PROJECT TITLE :
UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :
blue antz
Sulawesi Park, Office Block C No.28 & K&A New Mangrove Kon.20 Jakarta Pusat 10220
Phone : (021-25) 5794729 Fax : (021-25) 5794733 E-mail : info@blue-antz.com
INDONESIA

STRUCTURE CONSULTANT :
KETIRA ENGINEERING CONSULTANTS
Ketira Engineering Consultants
No. 10000000 (Building System) & Lines
Jakarta 10000 INDONESIA

MECHANICAL & ELECTRICAL CONSULTANT :
PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01 - J. Pahlawan Senby, Serpong Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5376217
Email : samasta.ama@samastarep.com Website : www.samastarep.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

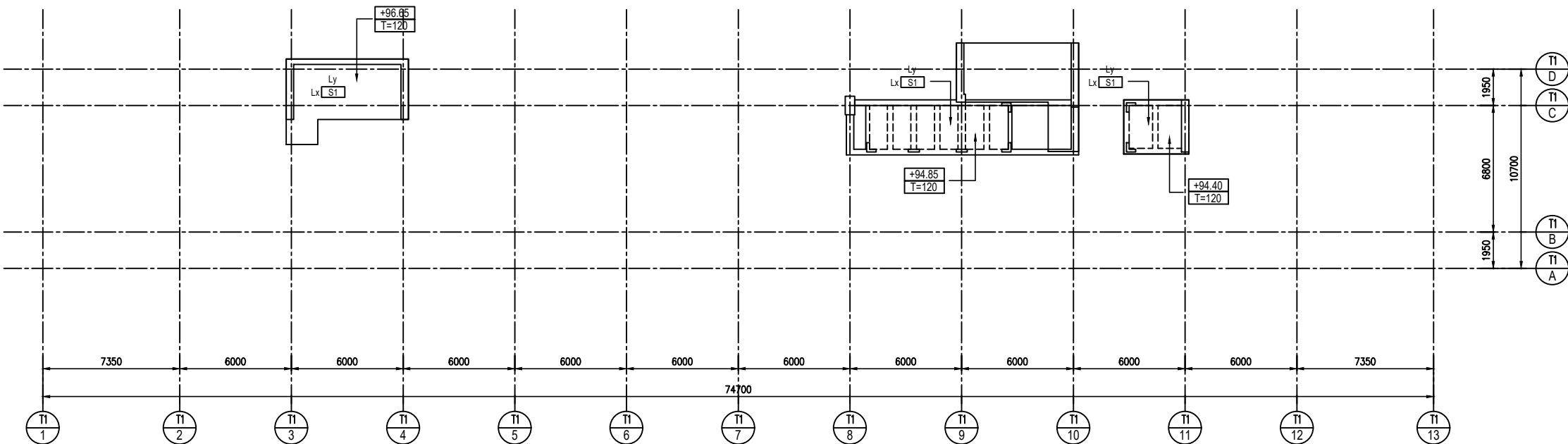
DRAWING TITLE
DENAH LANTAI ATAP LIFT

Drawn By		DATE
Job Captain		DATE
Project Architect	-	DATE
Project Manager	-	DATE
Project Director	-	DATE
OWNER APPROVAL		DATE

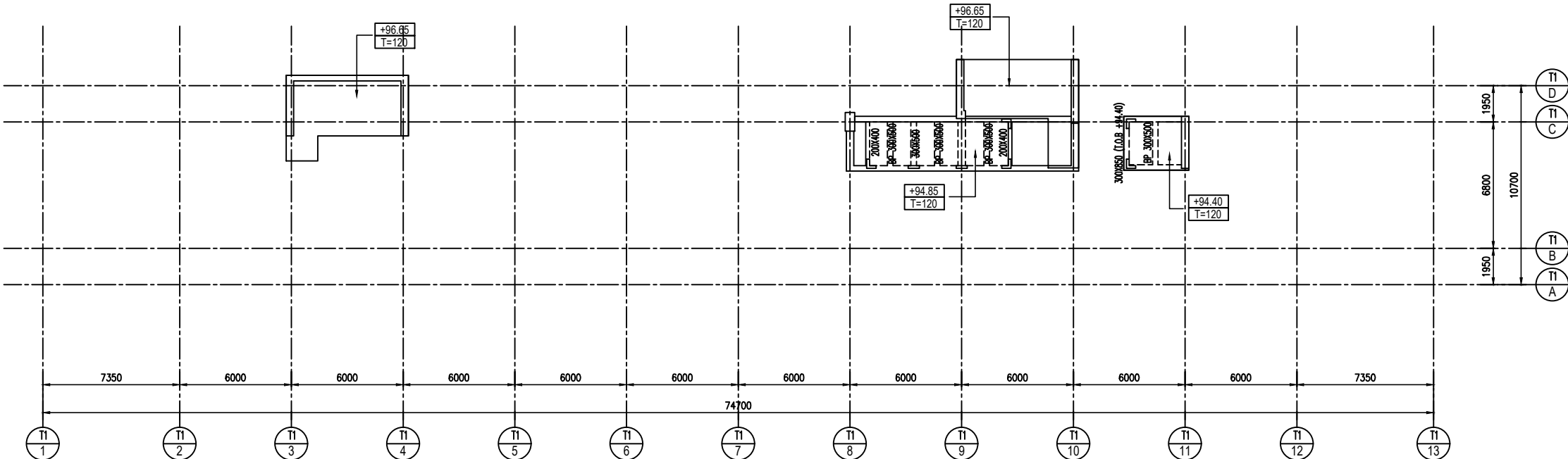
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ISSUED FOR : TENDER REVISION : - DRAWING NUMBER : S-50

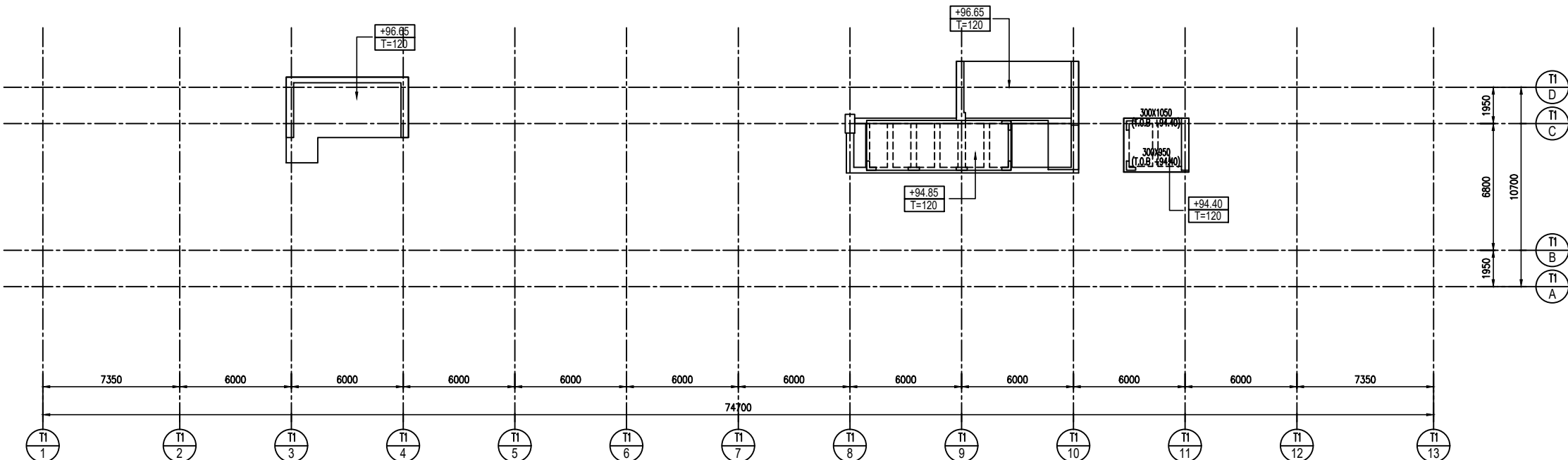
DATE : 19 MARET 2025 PROJECT CODE : FILE NUMBER:



DENAH PELAT LANTAI LEVEL ATAP LIFT
SKALA 1:150



DENAH LANTAI LEVEL ATAP LIFT
SKALA 1:150



DENAH LANTAI LEVEL ATAP LIFT
SKALA 1:150

Signature

FOR TENDER

NOTES
All construction drawings used on site to comply with approved
permit drawings.
Blue print will not responsible to any breach of compliances.
1. SEMUA UKURAN DALAM MILIMETER.
2. SEMUA ELEVASI DALAM METER.
3. MUTU BETON :
TANG PANGANG D2 300x300, 450x450 : f_c = 45 MPa
PILE CAP, RFT, TIE BEAM, DINING BASEMENT : f_c = 35 MPa
PODILUM :
KOLAM : f_c = 35 MPa
BALOK, PELAT LANTAI : f_c = 30 MPa
TOWER :
KOLAM, SHEARWALL, LINK BEAM :
- GWT - L9 : f_c = 45 MPa
- L10 - ATAP LIFT : f_c = 40 MPa
BALOK, PELAT :
- GWT - L9 : f_c = 35 MPa
- L10 - ATAP LIFT : f_c = 30 MPa
4. MUTU TULANGAN :
D = 10, 8/15 420 (p=420 MPa)
D > 12, 8/15 420 (p=420 MPa)
M (WELDED), 8/15 520 (p=520 MPa)
5. MUTU BAJA : BJ 37 / SS 41 / Fe 360
6. MUTU LAS : E-70xx
7. MUTU BUNT : RTB A 325
8. FRL OF 40.00 = +18.00 (KONTINER)
AREA BASHI

ISSUED
No. DESCRIPTION DATE
REVISION
No. REVISIONS DATE
KEY PLAN :

PROJECT TITLE :
UrbanX APARTMENT
OWNER :

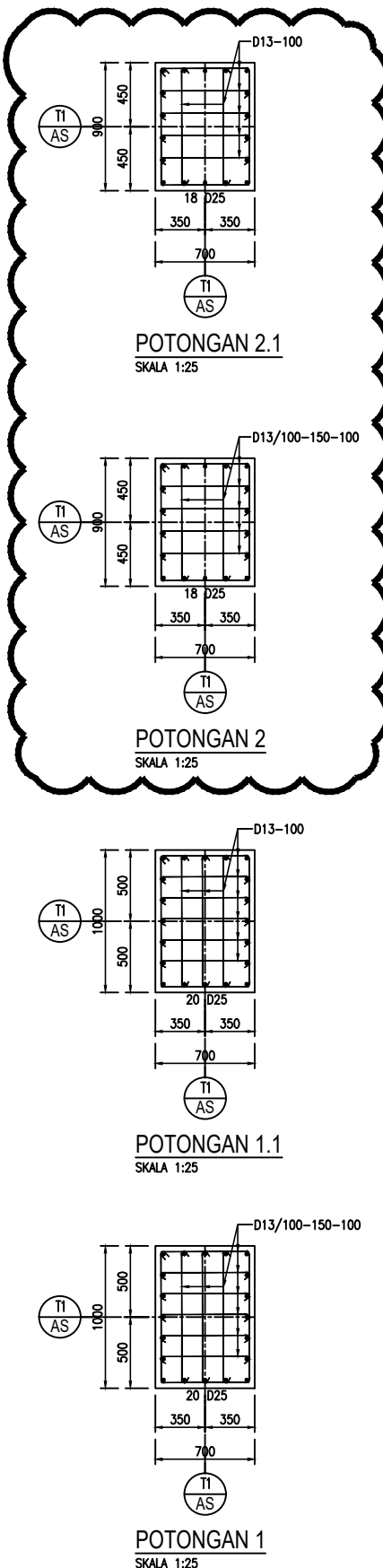
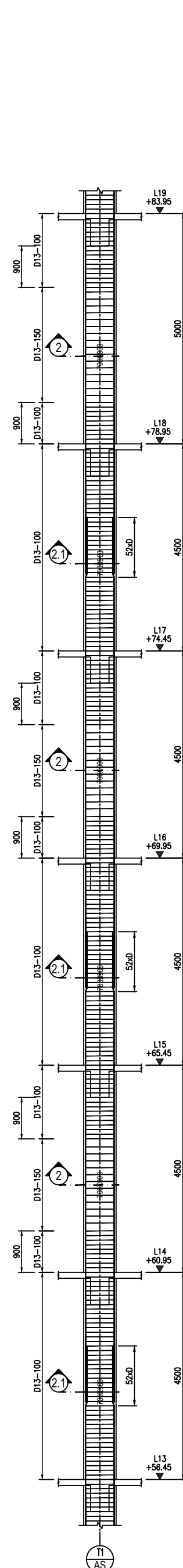
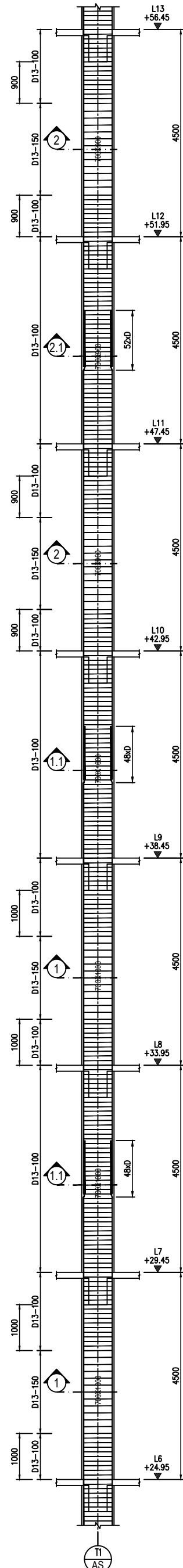
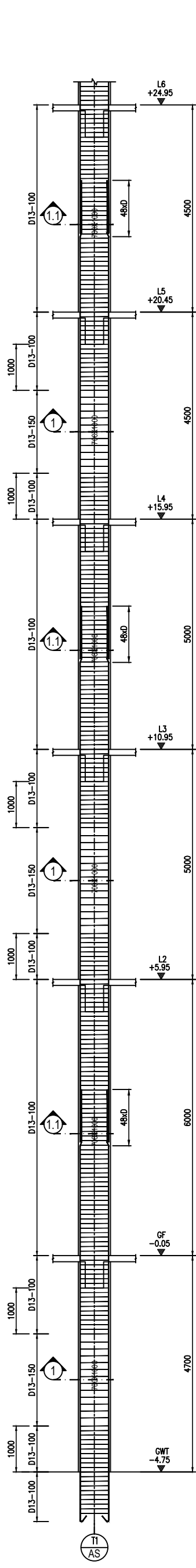
DESIGN ARCHITECT :
blueiantz
Ketima Engineering Consultants
No. 10, Jalan Bako 6, Blok 6, Jln. Bako, Bangsawan, Kuala Lumpur, 50450
Tel: 03-2610 8888 Fax: 03-2610 8889 Email: info@ketima.com.my
WEBSITE : www.ketima.com.my

STRUCTURE CONSULTANT :
KETIMA ENGINEERING CONSULTANTS
No. 10, Jalan Bako 6, Blok 6, Jln. Bako, Bangsawan, Kuala Lumpur, 50450
Tel: 03-2610 8888 Fax: 03-2610 8889 Email: info@ketima.com.my
WEBSITE : www.ketima.com.my

MECHANICAL & ELECTRICAL CONSULTANT :
PT. SAMASTA PEKAYASA TEKNIK
No. 10, Jalan Bako 6, Blok 6, Jln. Bako, Bangsawan, Kuala Lumpur, 50450
Tel: 03-2610 8888 Fax: 03-2610 8889 Email: info@ketima.com.my
WEBSITE : www.ketima.com.my

QUANTITY SURVEYORS :
DESIGN INTERIOR
LANDSCAPE CONSULTANT :

DRAWING TITLE
DETAIL KOLOM
Drawn By DATE
Job Captain DATE
Project Architect DATE
Project Manager DATE
Project Director DATE
OWNER APPROVAL
SCALE 1:50, 1:25
ISSUED FOR : TENDER
REVISION :
DRAWING NUMBER : S-K-07-R1
DATE : 19 MARET 2025
PROJECT CODE :
FILE NUMBER :



FOR TENDER

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NOTES

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PODIUM :
KOLAM :
BALOK, PELAT LANTAI : $f_c = 35 \text{ MPa}$
BALOK, PELAT LANTAI : $f_c = 30 \text{ MPa}$

TOWER :
KOLAM, SHEARWALL, LINK BEAM :
- GWL - L9 : $f_c = 45 \text{ MPa}$
- L10 - ATAP LIFT : $f_c = 40 \text{ MPa}$

BALOK, PELAT :
- GWL - L9 : $f_c = 35 \text{ MPa}$
- L10 - ATAP LIFT : $f_c = 30 \text{ MPa}$

4. MUTU TULANGAN :
D = 10, 9/15 420 ($y=420 \text{ MPa}$)
D > 12, 9/15 420 ($y=420 \text{ MPa}$)
M (WIRKESNY), 9/15 520 ($y=520 \text{ MPa}$)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360
6. MUTU LAS : E-70xx

7. MUTU BUNT : RTB A 325
8. FTL OF 40.00 = +18.00 (KONTUR)

AREA BASHI

ISSUED

No.

REVISION

No.

REVISIONS

DATE

KEY PLAN :

PROJECT TITLE :

OWNER :

DESIGN ARCHITECT :

STRUCTURE CONSULTANT :

MECHANICAL & ELECTRICAL CONSULTANT :

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE

DETAIL KOLAM

Drawn By

Job Captain

Project Architect

Project Manager

OWNER APPROVAL

SCALE

ISSUED FOR :

TENDER

REVISION :

DRAWING NUMBER :

DATE :

PROJECT CODE :

FILE NUMBER:

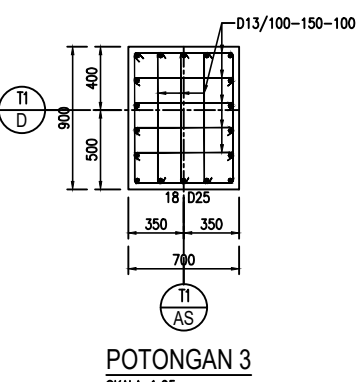
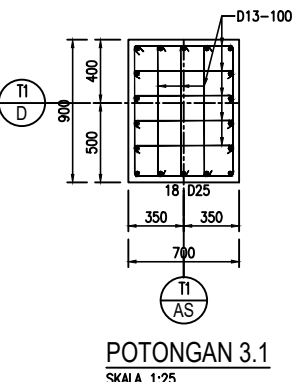
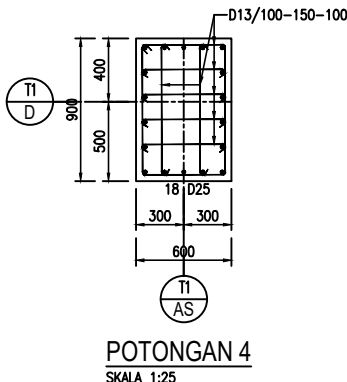
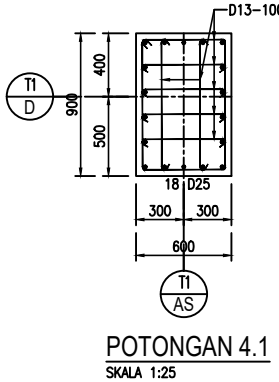
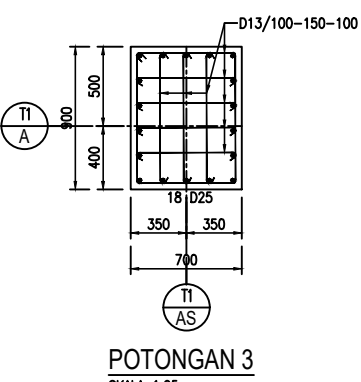
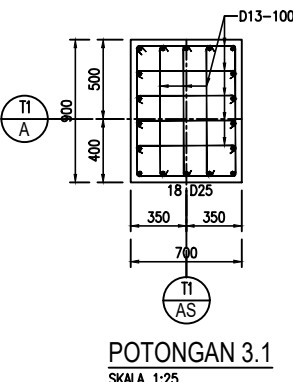
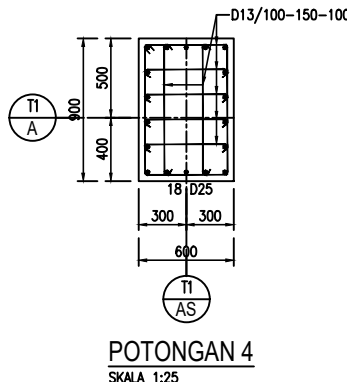
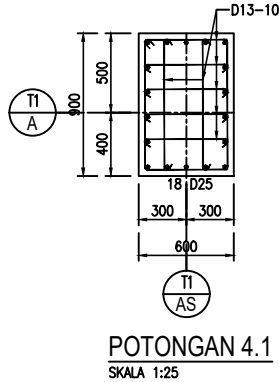
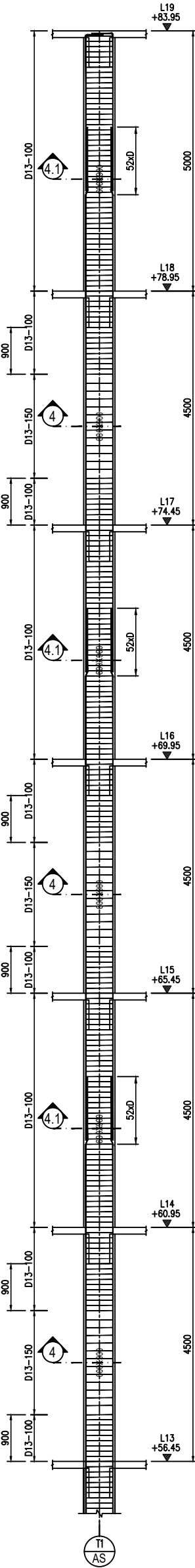
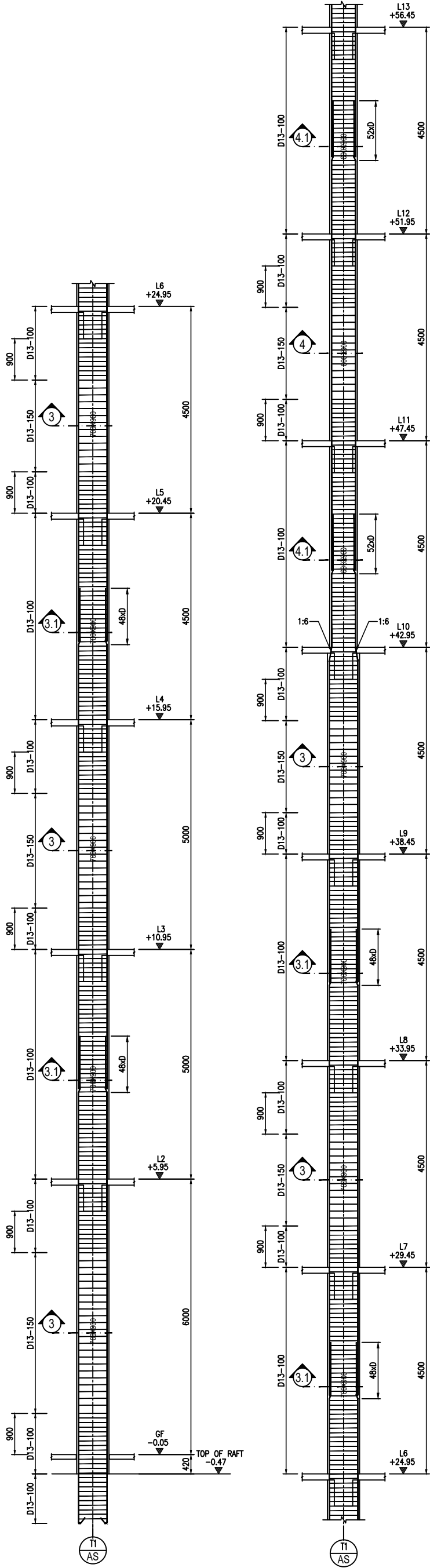
28 FEBRUARI 2025

S-K-16

FOR TENDER

DETAIL K2D (AS 7-A, 7-D, 9-A, 11-A)

SKALA 1:50



NOTES

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1. SEMUA UKURAN DALAM MILIMETER.
2. SEMUA ELEVASI LANTAI DALAM METER.

3. MUTU BETON :

TANG PANGKANG D2 300X300, 450/450 : f_c = 45 MPa

PILE CAP, RAFT, TIE BEAM, DRAINING BASEMENT : f_c = 35 MPa

PODIUM :

KOLOM : f_c = 35 MPa

BALOK, PELAT LANTAI : f_c = 30 MPa

TOWER :

KOLOM, SHEARWALL, LINK BEAM :

- GW1 - L9 : f_c = 45 MPa

- L10 - ATAP LIFT : f_c = 40 MPa

BALOK, PELAT :

- GW1 - L9 : f_c = 35 MPa

- L10 - ATAP LIFT : f_c = 30 MPa

4. MUTU TULANGAN :

D = 10, DITS 420 (f_y=420 MPa)

D > 12, DITS 420 (f_y=420 MPa)

M (WIRKESY), DITS 520 (f_y=520 MPa)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360

6. MUTU LAS : E-70xx

7. MUTU BUNT : RTB A 325

8. FFL OF 40.00 = +18.00 (KONTUR)

9. AREA BANGSI

10. AREA BANGSI

11. AREA BANGSI

12. AREA BANGSI

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97. AREA BANGSI

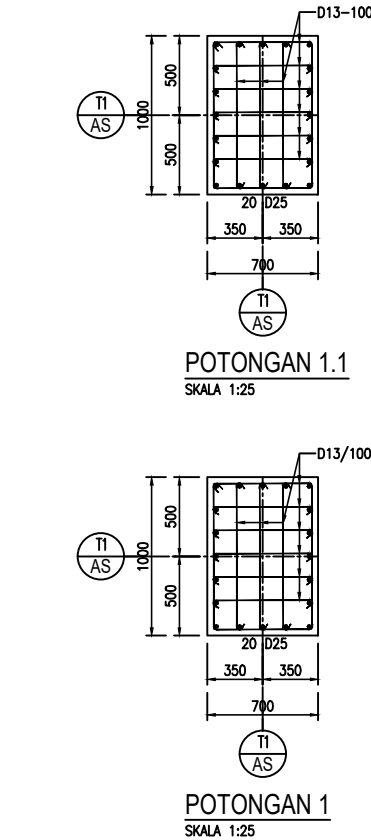
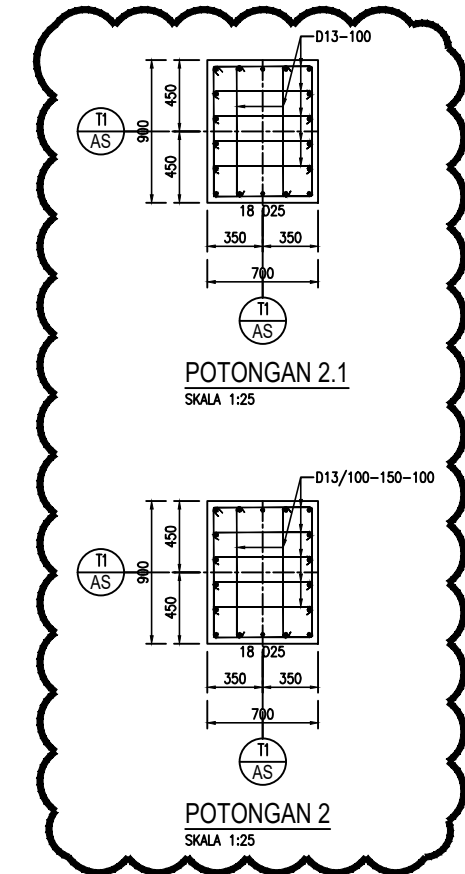
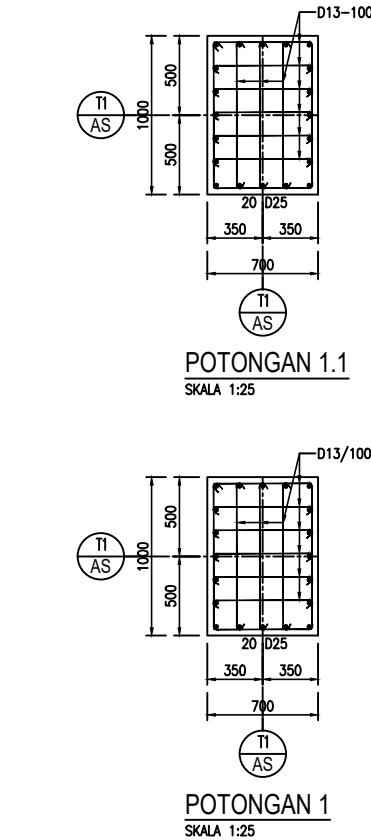
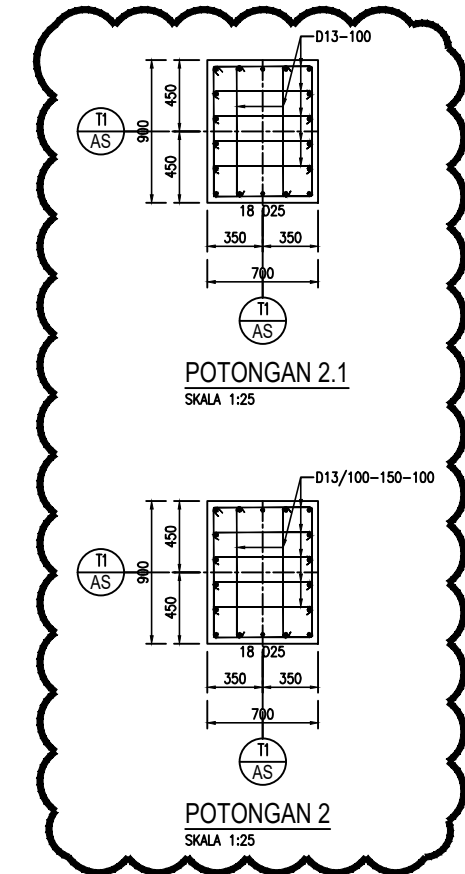
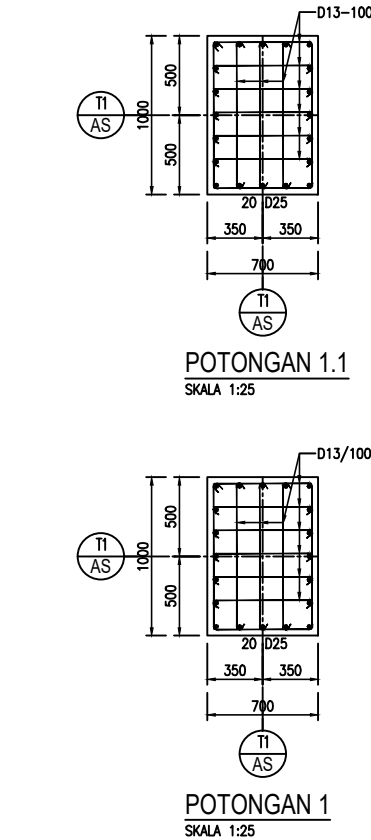
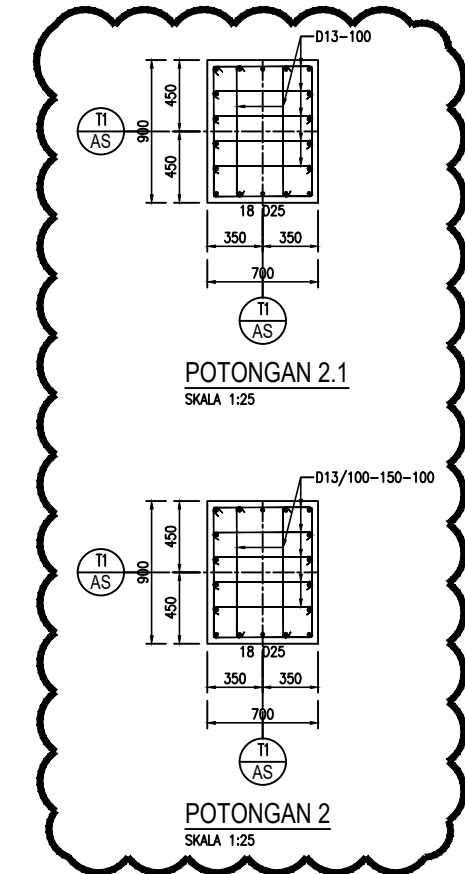
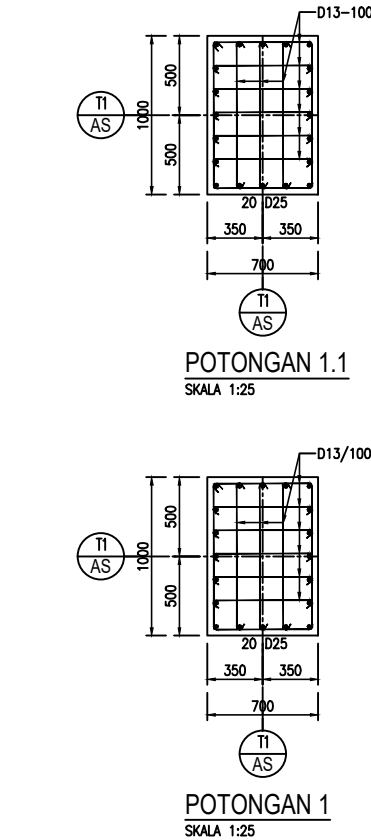
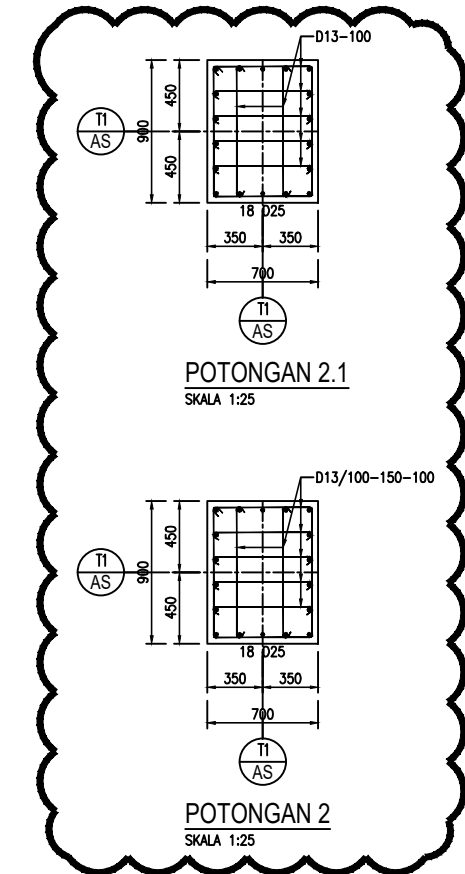
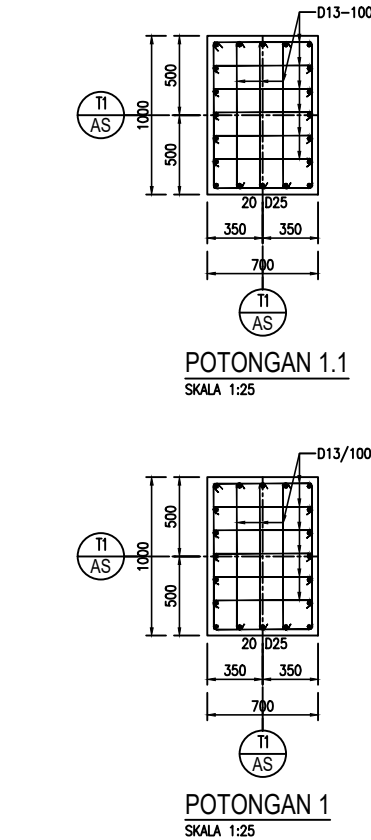
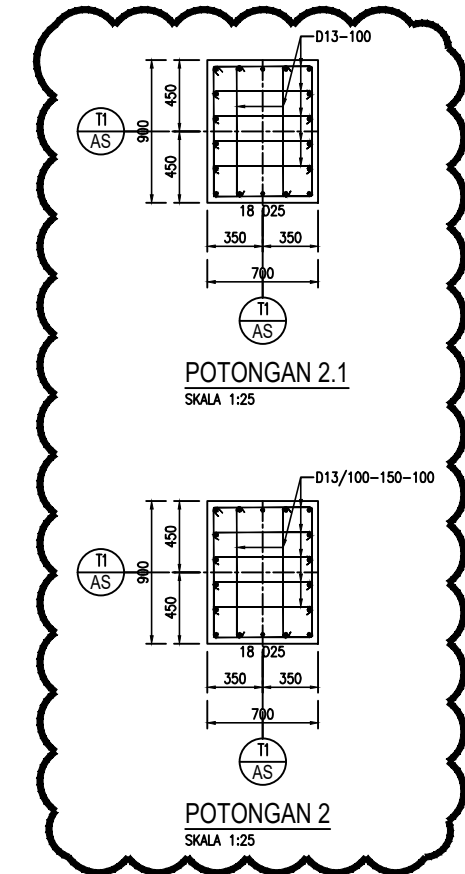
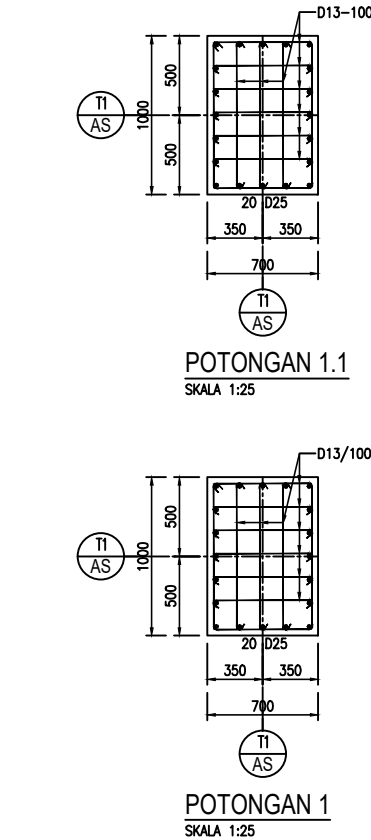
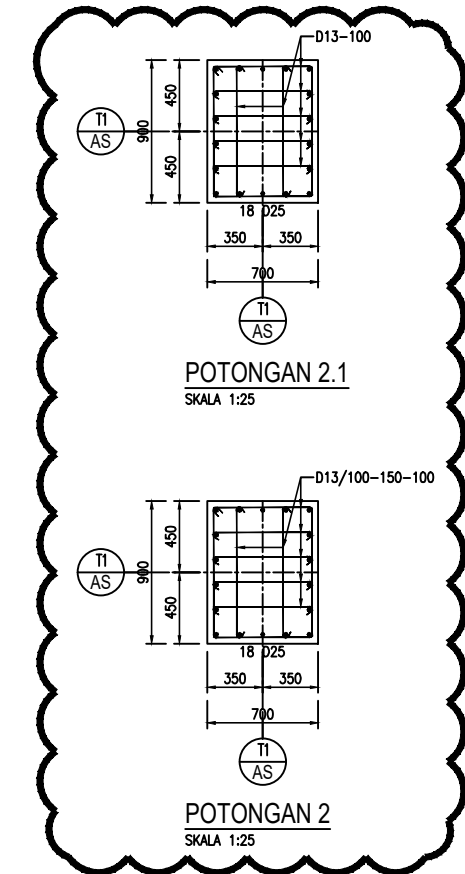
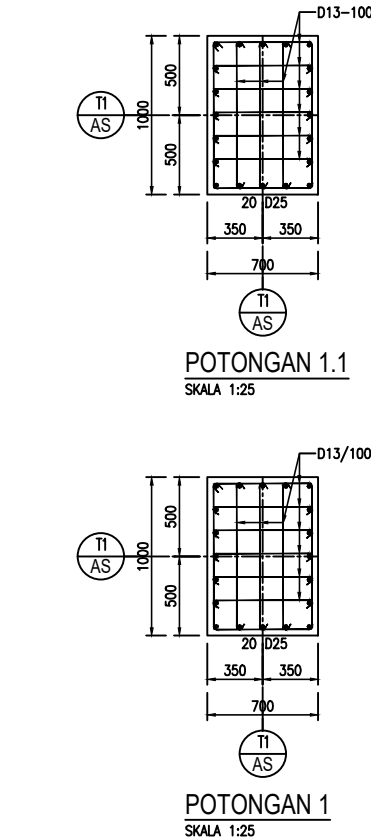
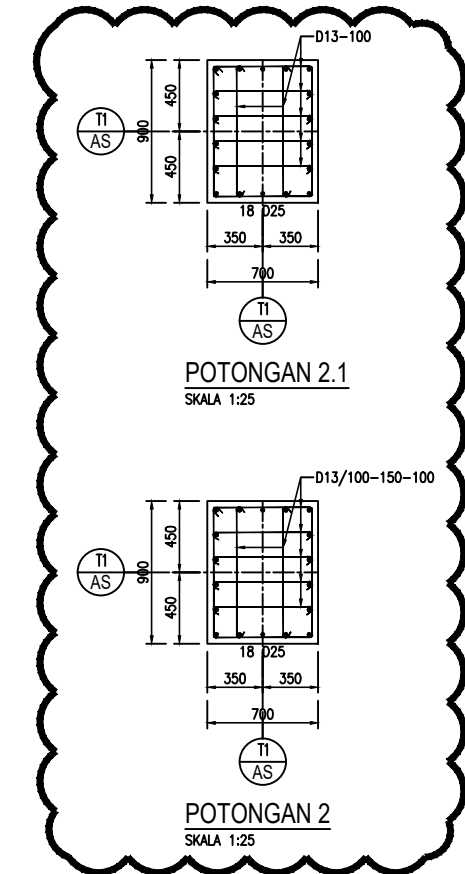
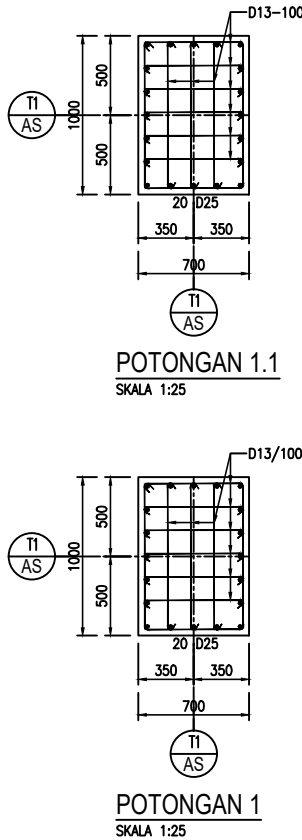
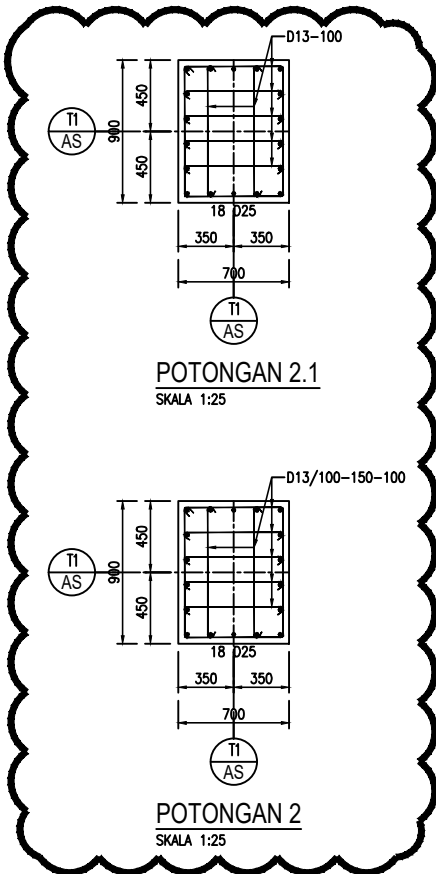
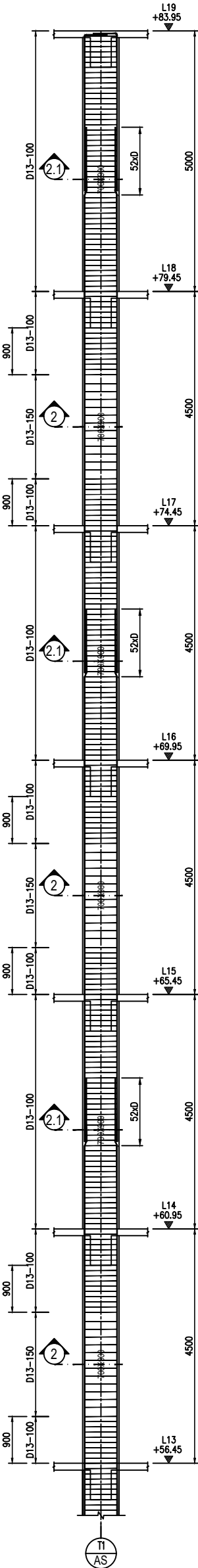
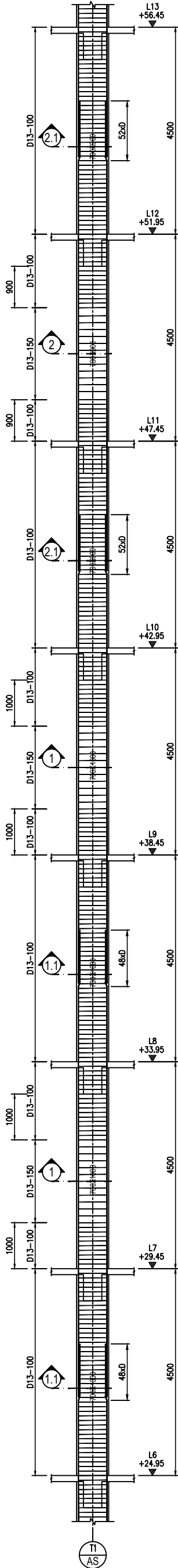
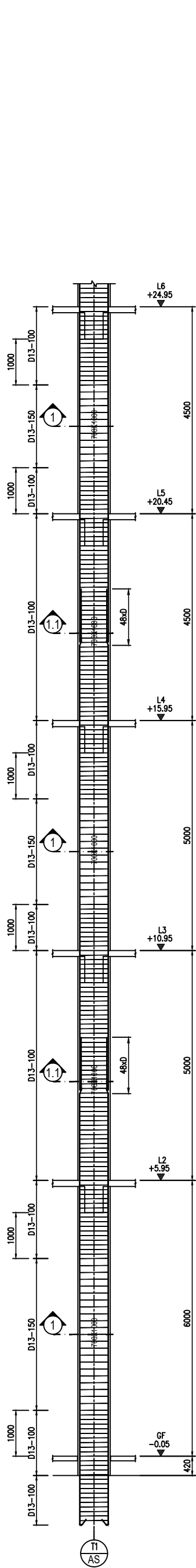
98. AREA BANGSI

99. AREA BANGSI

100. AREA BANGSI

DETAIL K1C (AS 7/B-C, 9-B & 11-B)

SKALA 1:50



1. SEMUA UKURAN DALAM MILIMETER.
2. SEMUA ELEVASI LANTAI DALAM METER.
3. MUTU BETON :

TANG PANGANG D1 300X300, 450X450 : $f_c = 45 \text{ MPa}$
PILE CAP, RAFT, TIE BEAM, DINING BASEMENT : $f_c = 35 \text{ MPa}$

PODOLUM :
KOLAM : $f_c = 35 \text{ MPa}$
BALOK, PELAT LANTAI : $f_c = 30 \text{ MPa}$

TOWER :
KOLAM, SHEARWALL, LINK BEAM :
- GWT - L9 : $f_c = 45 \text{ MPa}$
- L10 - ATAP LIFT : $f_c = 40 \text{ MPa}$

BALOK, PELAT :
- GWT - L9 : $f_c = 35 \text{ MPa}$
- L10 - ATAP LIFT : $f_c = 30 \text{ MPa}$

4. MUTU TULANGAN :
D = 10, 8/15, 4/20 (p=400 MPa)
D > 12, 8/15, 4/20 (p=400 MPa)
M (WIRKES), 8/15, 5/20 (p=500 MPa)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360

6. MUTU LAS : E-70xx

7. MUTU BUNT : RTB A, 325

8. FTL OF 40.00 = +18.00 (KONTUR)

9. AREA BANGUNAN

ISSUED

REVISION

DATE

REVISIONS

DATE

KEY PLAN :

PROJECT TITLE :

OWNER :

DESIGN ARCHITECT :

STRUCTURE CONSULTANT :

MECHANICAL & ELECTRICAL CONSULTANT :

PT. SAMASTA REKAYASA TEKNIK

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE

DETAIL KOLAM

Drawn By

Job Captain

Project Architect

Project Manager

OWNER APPROVAL

SCALE

ISSUED FOR :

TENDER

DATE :

PROJECT CODE :

FILE NUMBER :

28 FEBRUARI 2025

S-K-09

DRAWING NUMBER :

FOR TENDER

DETAIL K2 (AS 2-A & 2-D)

SKALA 1:50

DETAIL K2 (AS 2-A & 2-D)

SKALA 1:50

DETAIL K2 (AS 2-A & 2-D)

SKALA 1:50

DETAIL K2 (AS 2-A & 2-D)

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DETAIL K2 (AS 2-A & 2-D)

SKALA 1:50

DETAIL K2 (AS 2-A & 2-D)

SKALA 1:50

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NOTES

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PODOLIM :

KOLON : f_c = 35 MPa

BALOK, PELAT LANTAI : f_c = 30 MPa

TOWER :

KOLON, SHEARWALL, LINK BEAM :

- GWT - L9 : f_c = 45 MPa

- L10 - ATAP LIFT : f_c = 40 MPa

BALOK, PELAT :

- GWT - L9 : f_c = 35 MPa

- L10 - ATAP LIFT : f_c = 30 MPa

4. MUTU TULANGAN :

D = 10, 8/15 420 (f_y=420 MPa)

D > 12, 8/15 420 (f_y=420 MPa)

M (WIRELESS), 8/15 520 (f_y=520 MPa)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360

6. MUTU LAS : E-70xx

7. MUTU BUNT : RTB A 325

8. FRL OF 40.00 = +18.00 (KONTINER)

AREA BAKSI

ISSUED

REVISION

REVISIONS

DATE

KEY PLAN :

PROJECT TITLE :

UrbanX APARTMENT

OWNER :

DESIGN ARCHITECT :

blue|antz

Indonesian Architectural Firm
Jl. Raya Merdeka No. 100, Jakarta Pusat 10110
Telp : 021-65950000 Fax : 021-65950001 Email : info@blueantz.com

STRUCTURE CONSULTANT :

KETRA ENGINEERING CONSULTANTS

PT. SAMASTA PEKAYASA TEKNIK

Mechanical, Electrical & Plumbing Engineering Consultant
Jl. Raya Merdeka No. 100, Jakarta Pusat 10110
Telp : 021-65950000 Fax : 021-65950001 Email : info@ketra.com

MECHANICAL & ELECTRICAL CONSULTANT :

PT. SAMASTA PEKAYASA TEKNIK

Mechanical, Electrical & Plumbing Engineering Consultant
Jl. Raya Merdeka No. 100, Jakarta Pusat 10110
Telp : 021-65950000 Fax : 021-65950001 Email : info@ketra.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE

DETAIL KOLOM

Drawn By

Job Captain

Project Architect

Project Manager

OWNER APPROVAL

SCALE

1:50, 1:25

ISSUED FOR :

REVISION :

DRAWING NUMBER :

S-K-10-R1

DATE :

19 MARET 2025

PROJECT CODE :

FILE NUMBER :

FOR TENDER

Indonesian Architectural Firm

The drawing consists of a main column detail and three cross-sections. The main detail, labeled DETAIL K2A (AS 4-A) at scale 1:50, shows a column with various reinforcement bars and dimensions. The cross-sections, labeled POTONGAN 3.1, 3.2, and 3.3 at scale 1:25, show the internal reinforcement layout for different column types. The drawing includes dimensions, reinforcement details, and elevation markers.

DETAIL K2A (AS 4-A)
SKALA 1:50

POTONGAN 3.1
SKALA 1:25

POTONGAN 3.2
SKALA 1:25

POTONGAN 3.3
SKALA 1:25

1. SEMUA UKURAN DALAM MILIMETER.
2. SEMUA ELEVASI DALAM METER.
3. MUTU BETON :

TANG PANGKANG D1 300X300, 450X450 : f_c = 45 MPa
PILE CAP, RFT, TIE BEAM, DINING BASEMENT : f_c = 35 MPa

PODOLIM :

KOLAM : f_c = 35 MPa
BALOK, PELAT LANTAI : f_c = 30 MPa

TOWER :

KOLAM, SHEARWALL, LINK BEAM :

- GWT - L9 : f_c = 45 MPa

- L10 - ATAP LIFT : f_c = 40 MPa

BALOK, PELAT :

- GWT - L9 : f_c = 35 MPa

- L10 - ATAP LIFT : f_c = 30 MPa

4. MUTU TULANGAN :

D = 10, 8/15 420 (f_y=420 MPa)

D > 12, 8/15 420 (f_y=420 MPa)

M (WIRKESNY), 8/15 520 (f_y=520 MPa)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360

6. MUTU LAS : E-70xx

7. MUTU BUNT : RTB A 325

8. FTL OF 40.00 = +18.00 (KONTUR)

AREA BASHI

ISSUED

REVISION

No. DESCRIPTION DATE

REVISION

No. REVISIONS DATE

KEY PLAN :

PROJECT TITLE :

OWNER :

DESIGN ARCHITECT :

STRUCTURE CONSULTANT :

MECHANICAL & ELECTRICAL CONSULTANT :

PT. SAMASTA REKAYASA TEKNIK

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DETAIL KOLAM

DATE

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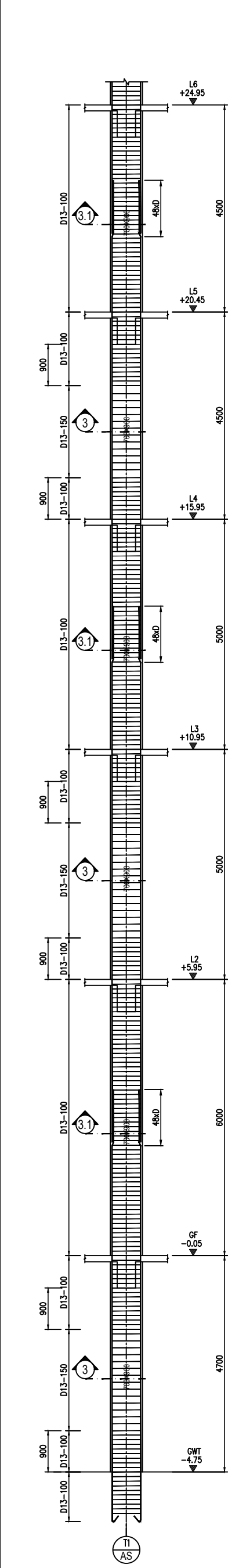
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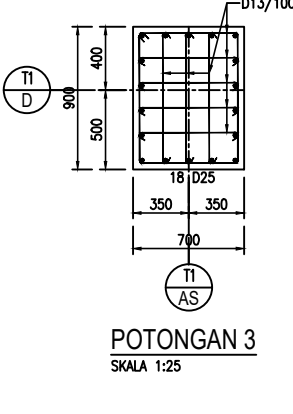
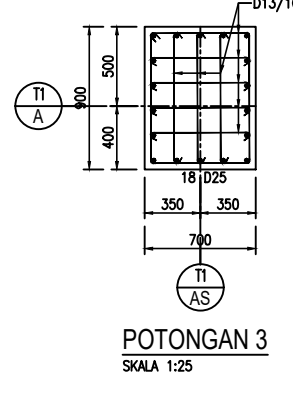
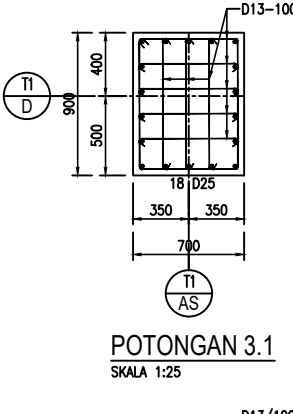
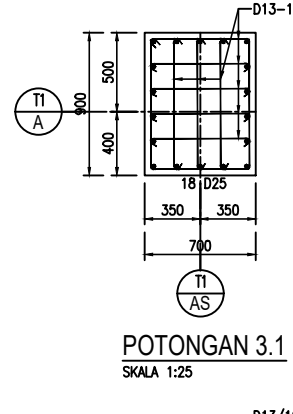
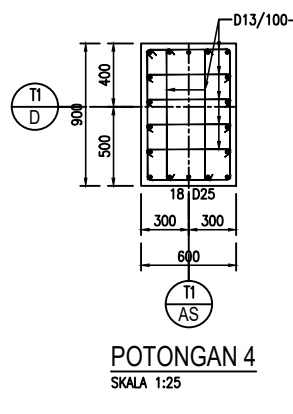
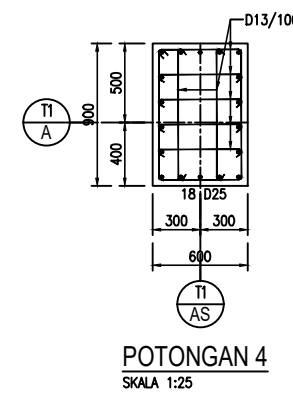
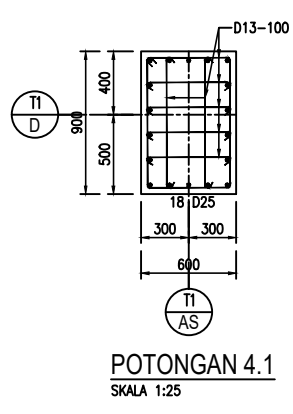
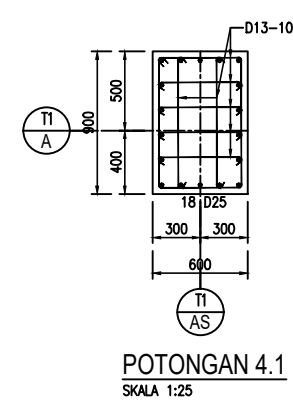
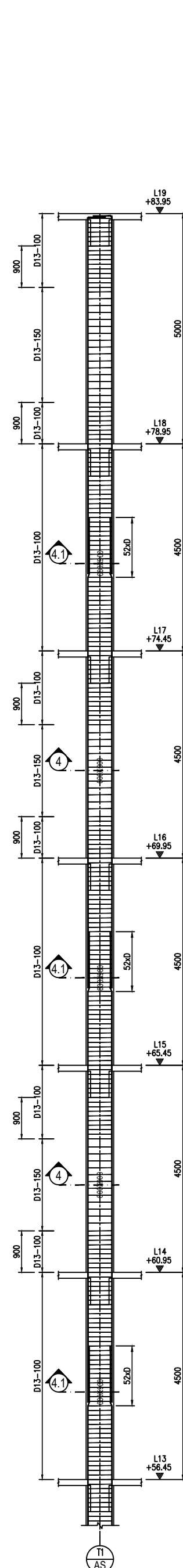
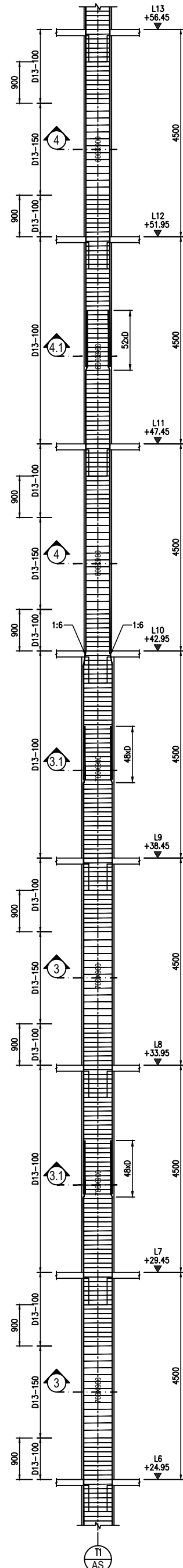
DATE

DATE

DATE



DETAIL K2B (AS 3-A, 5-A & 5-D)
SKALA 1:50



FOR TENDER

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PILE CAP, RAFT, TIE BEAM, DRAINING BASEMENT : f_c = 35 MPa

PODUM : f_c = 35 MPa

KOLOM : f_c = 35 MPa

BALOK, PELAT LANTAI : f_c = 30 MPa

TOWER : KOLON, SHEARWALL, LINK BEAM :

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6. MUTU LAS : E-70xx

7. MUTU BUNT : RTB A 325

8. FRT OF 40.00 = +18.00 (KONTUR)

9. AREA BANGUNAN

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74. AREA BANGUNAN

75. AREA BANGUNAN

76. AREA BANGUNAN

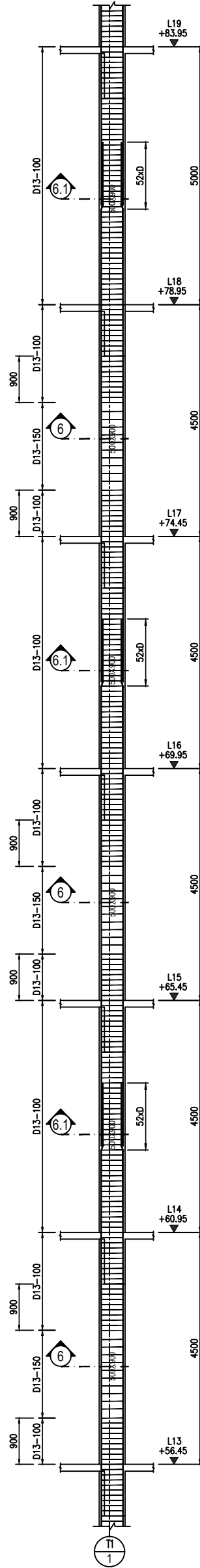
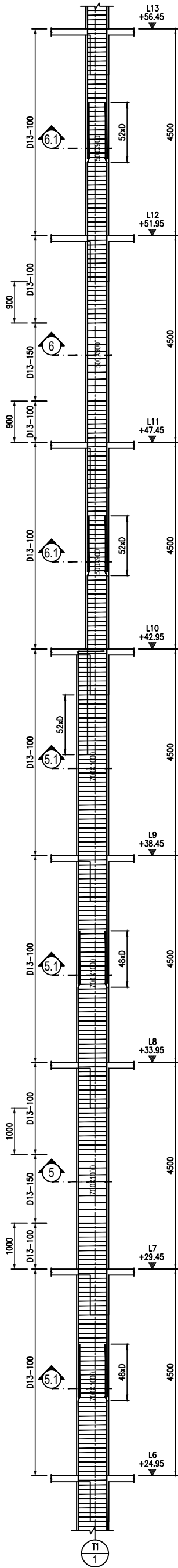
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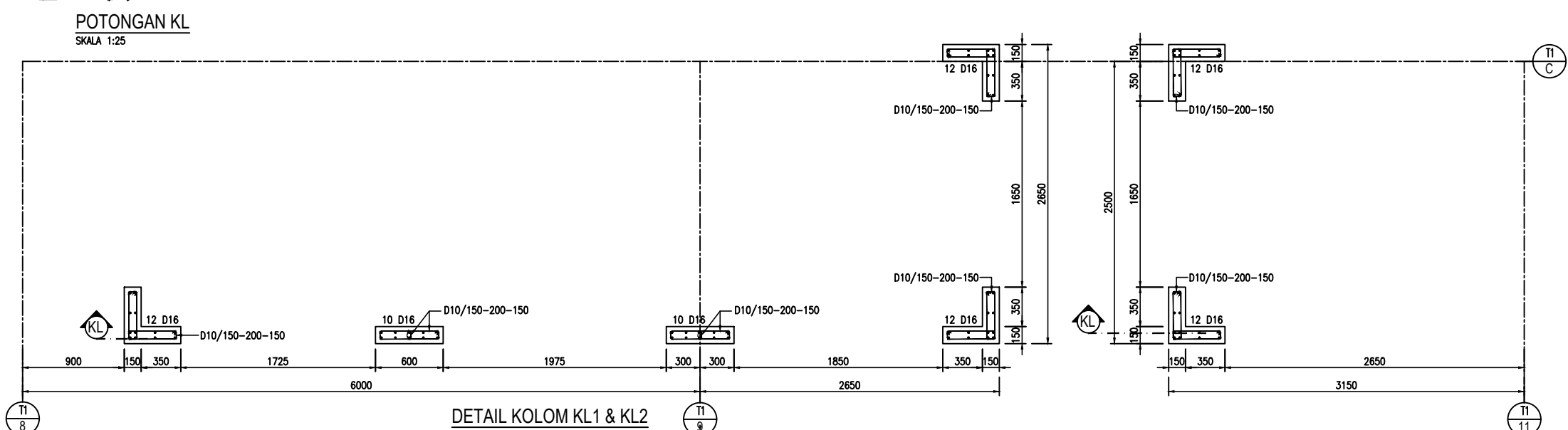
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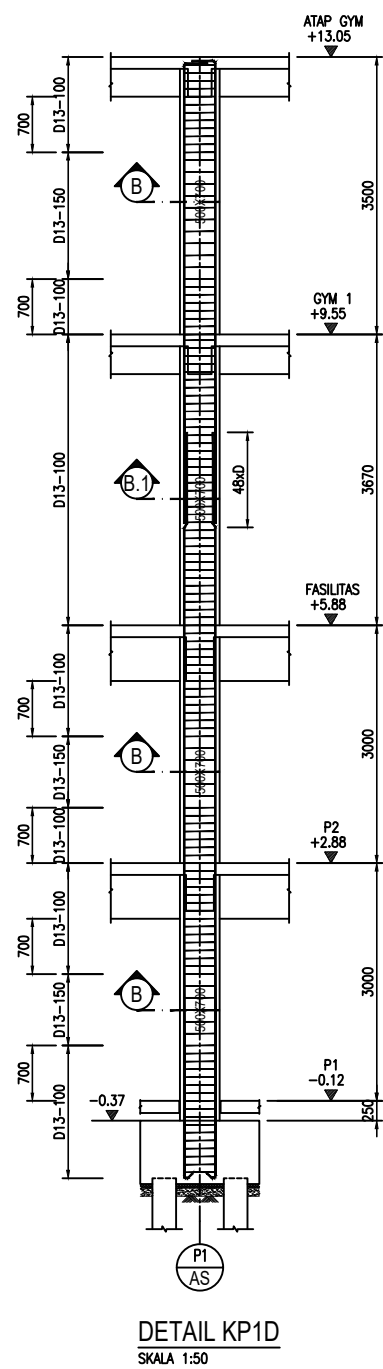
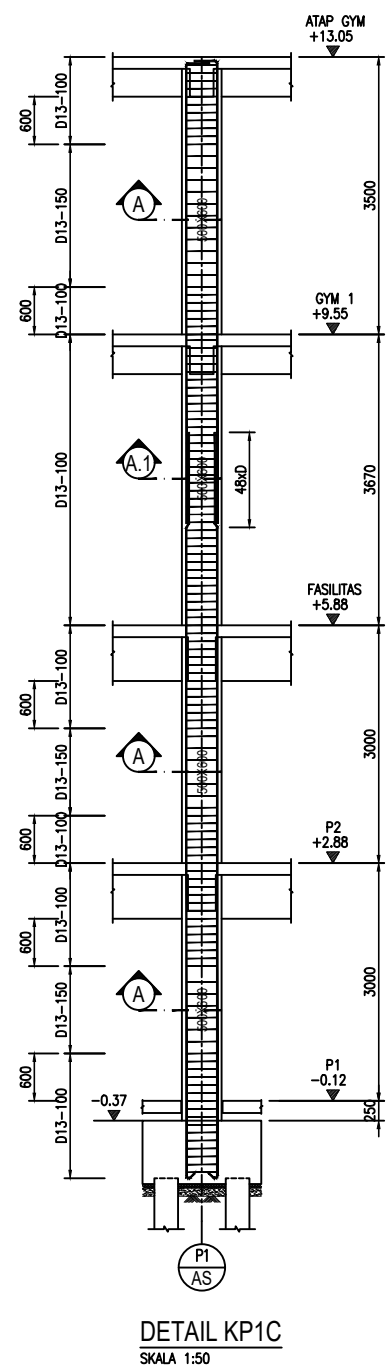
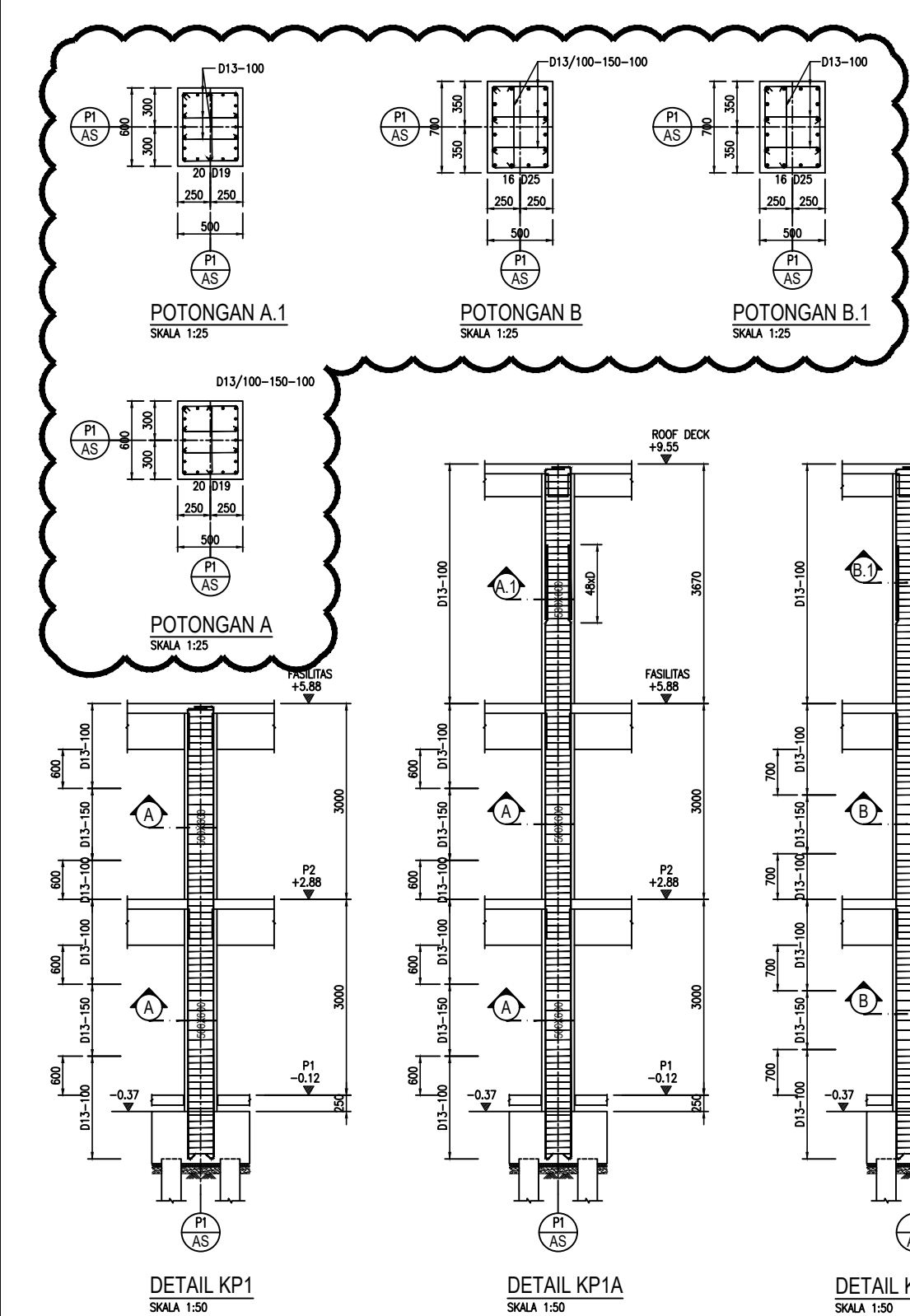
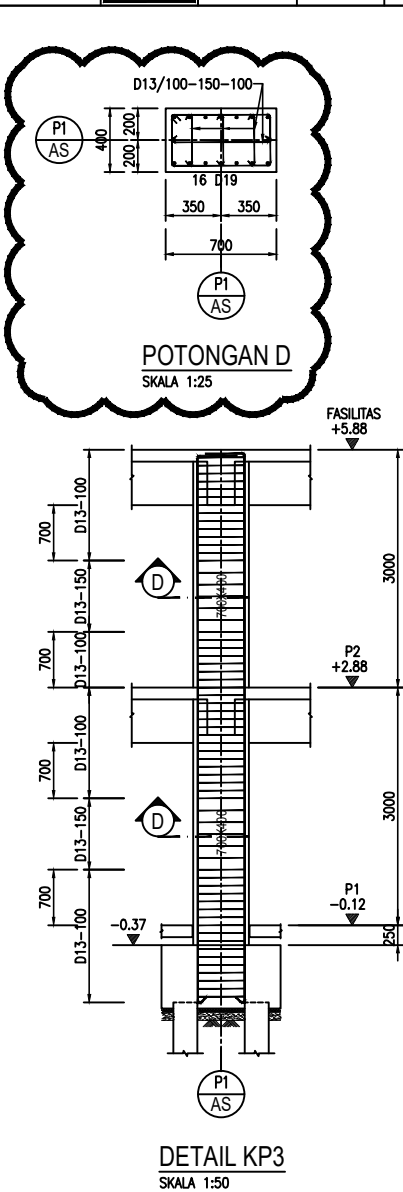
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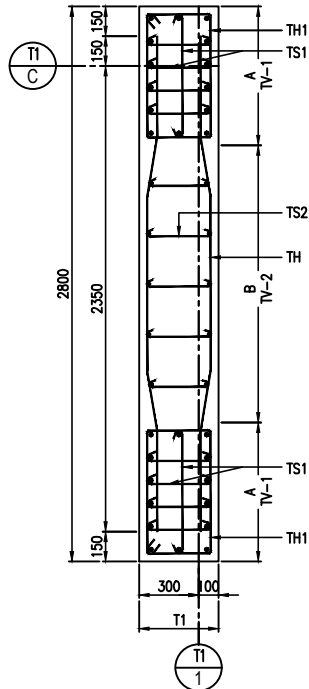
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DETAIL K3A (AS 13-A & 13-D)
SKALA 1:50

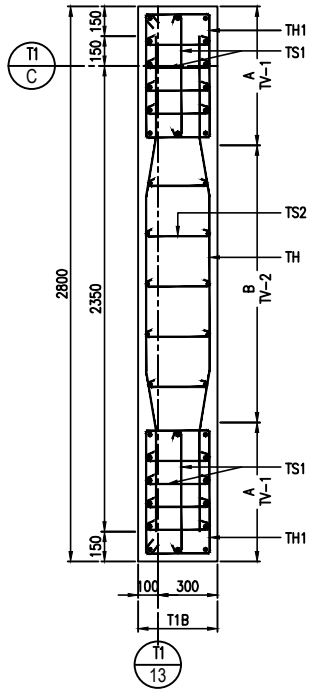




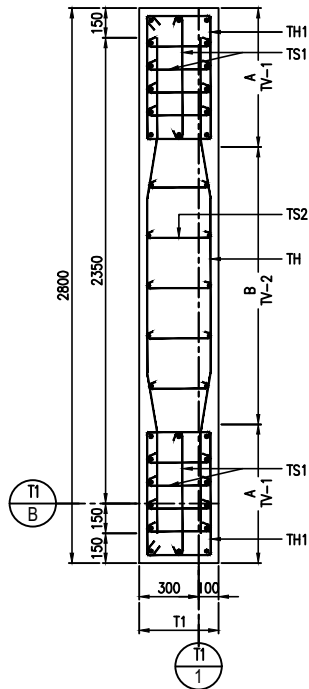




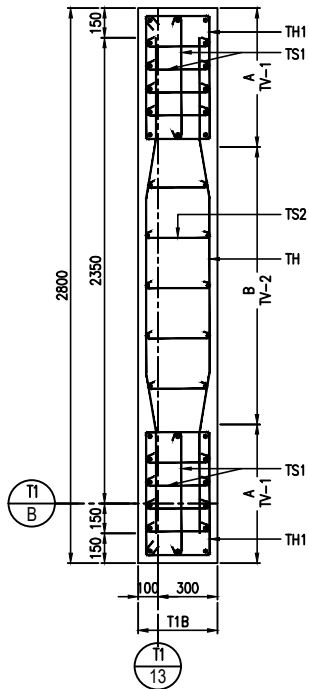
DETAIL W1 (GWT - ATAP)
SKALA 1 : 20



DETAIL W1B (GROUND - ATAP)
SKALA 1 : 20



DETAIL W1 (GWT - ATAP)
SKALA 1 : 20



DETAIL W1B (GROUND - ATAP)
SKALA 1 : 20

TABEL PENULANGAN SHEARWALL W1B

	LANTAI	A (MM)	B (MM)	T1B (MM)	TV-1	TV-2	TH	TH1	TS-1	TS-2
LANTAI TYPICAL	ATAP LIFT									
	ATAP									
	LEVEL 20	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 19	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 18	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 17	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 16	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 15	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 12	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 11	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 10	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 9	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 8	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 7	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 6	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 5	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 3	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
PODIUM	LEVEL 2	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	GROUND	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250

TABEL PENULANGAN SHEARWALL W1

	LANTAI	A (MM)	B (MM)	T1 (MM)	TV-1	TV-2	TH	TH1	TS-1	TS-2
LANTAI TYPICAL	ATAP LIFT									
	ATAP									
	LEVEL 20	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 19	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 18	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 17	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 16	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 15	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 12	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 11	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 10	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 9	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 8	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 7	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 6	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 5	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 3	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
PODIUM	LEVEL 2	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	GROUND	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	GWT	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250

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PODIUM :
KOLOM : f_c = 35 MPa
BALOK, PELAT LANTAI : f_c = 30 MPa

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D > 12, BJTS 420 (fy=420 MPa)
M (WIREMESH), BJTS 520 (fy=520 MPa)

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6. MUTU LAS : E-70xx
7. MUTU BAUT : HTB A 325
8. FFL GF ±0.00 = +18.00 (KONTUR)

AREA BASAH

ISSUED		
No.	DESCRIPTION	DATE
REVISION		
No.	REVISIONS	DATE

KEY PLAN :

PROJECT TITLE :

UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :

blueantz

Subramanian Park, Office Block C No.39 A, KAL. Mera Mera, Kota Kinabalu, Sabah, Malaysia
Phone : (61-2) 51947219 Fax : (61-2) 51947220 E-mail : info@blueantz.com.my
blueantz.com

STRUCTURE CONSULTANT :

KETIRA ENGINEERING CONSULTANTS
Ketira Engineering Consultants
No. 10, Jalan Kuching, Kuching, Sarawak, Malaysia
Tel : 082000000 (Sarawak Region) & 082000000 (Sarawak Region)

MECHANICAL & ELECTRICAL CONSULTANT :

PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01 - J. Pahlawan Selat, Serpong Utara
Tangerang Selatan, Tangerang, Banten 15319 Phone : (021) 5330217
Email : samasta.ama@samastarep.com Website : www.samastarep.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

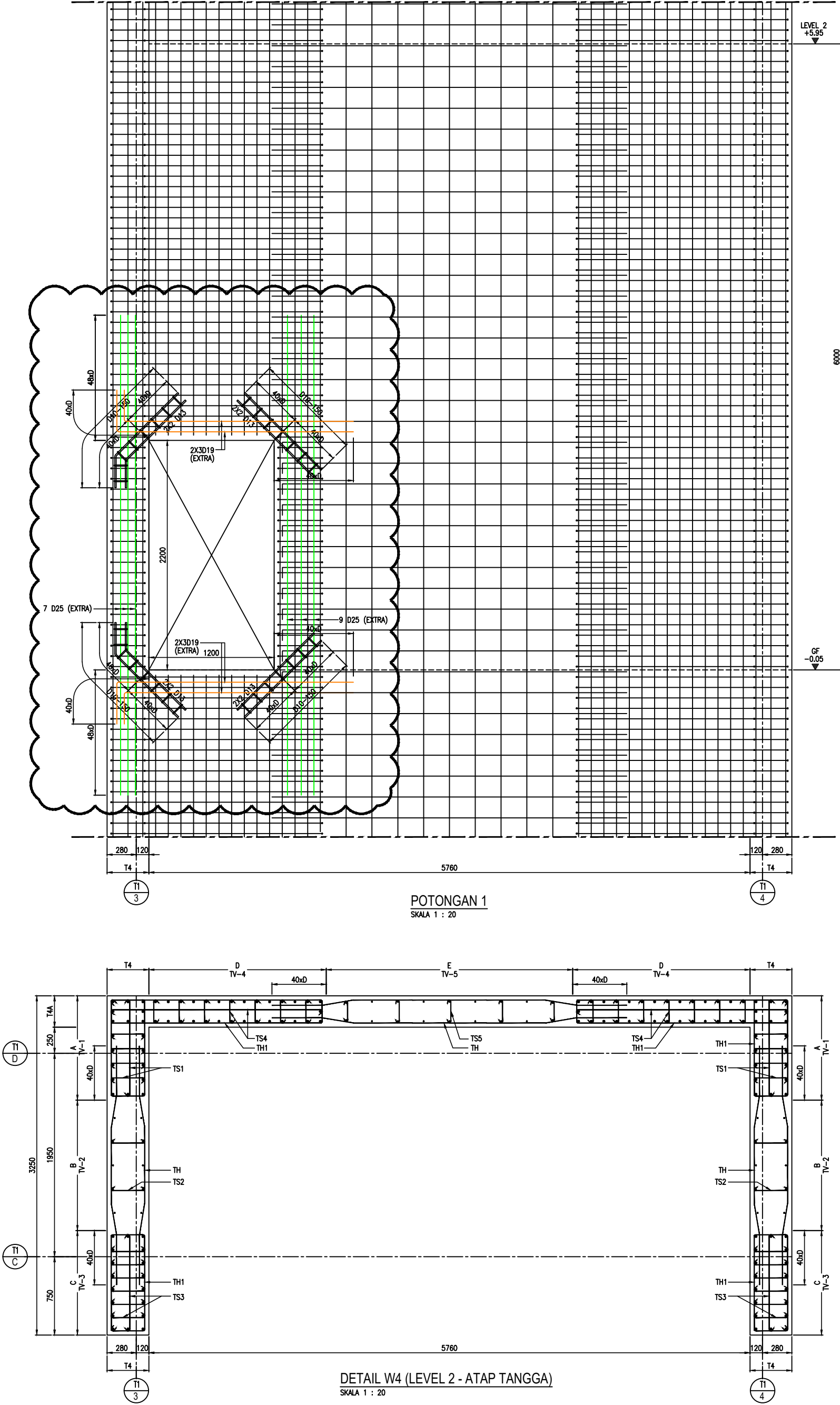
DRAWING TITLE

DETAIL SHEARWALL W1 & W1B

Drawn By		DATE	
Job Captain		DATE	
Project Architect	-	DATE	
Project Manager	-	DATE	
Project Director	-	DATE	
OWNER APPROVAL		DATE	
SCALE	1:20		
ISSUED FOR :	REVISION :	DRAWING NUMBER :	
TENDER	0	S-K-22-R1	
DATE :	PROJECT CODE :	FILE NUMBER:	
19 MARET 2025	.		

Signature

FOR TENDER



POTONGAN 1
SKALA 1 : 20

DETAIL W4 (LEVEL 2 - ATAP TANGGA)
SKALA 1 : 20

PROJECT TITLE :
UrbanX APARTMENT

OWNER :

DESIGN ARCHITECT :

blueiantz

blueiantz
No. 10, Jalan Bina 1, Blok A, L1, The Merga, 40130, Kuala Lumpur, 50000
KUALA LUMPUR
TEL: 03-2610 0000 FAX: 03-2610 0001 EMAIL: info@blueiantz.com

STRUCTURE CONSULTANT :

KETRA ENGINEERING CONSULTANTS
No. 10, Jalan Bina 1, Blok A, L1, The Merga, 40130, Kuala Lumpur, 50000
KUALA LUMPUR
TEL: 03-2610 0000 FAX: 03-2610 0001 EMAIL: info@ketra.com

MECHANICAL & ELECTRICAL CONSULTANT :

PT. SAMASTA REKAYASA TEKNIK
No. 10, Jalan Bina 1, Blok A, L1, The Merga, 40130, Kuala Lumpur, 50000
KUALA LUMPUR
TEL: 03-2610 0000 FAX: 03-2610 0001 EMAIL: info@samasta.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE

DETAIL SHEARWALL W4

Drawn By	DATE
Job Captain	DATE
Project Architect	DATE
Project Manager	DATE
Project Director	DATE
OWNER APPROVAL	DATE
SCALE	1:20
ISSUED FOR :	REVISION :
TENDER	0
DATE :	19 MARET 2025
PROJECT CODE :	FILE NUMBER :

Signature

FOR TENDER

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BALOK, PELAT LANTAI : f'c = 30 MPa
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D > 12, BJTS 420 (fy=420 MPa)
M (WIRESH), BJTS 520 (fy=520 MPa)
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6. MUTU LAS : E-70xx
7. MUTU BAUT : HTB A 325
8. FTL GF ±0.00 = +18.00 (KONTUR)
AREA BASAH

ISSUED		
No.	DESCRIPTION	DATE
REVISION		
No.	REVISIONS	DATE

KEY PLAN :

PROJECT TITLE :
UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :
blueantz
Sulawesi Park, Office Block C No.28 & K/L, New Mangrove Kon.28, Jakarta Pusat 10220
Phone : (021-25) 57947219 Fax : (021-25) 57947220 E-mail : info@blueantz.com
blueantz.com

STRUCTURE CONSULTANT :
KETIRA ENGINEERING CONSULTANTS
Ketira Engineering Consultants
No. 10000000 (Building System) & Lantai
Jakarta 10000 INDONESIA

MECHANICAL & ELECTRICAL CONSULTANT :
PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01, J. Pahlawan Senby, Serpong Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5332117
Email : samasta.ama@samastarep.com Website : www.samastarep.com

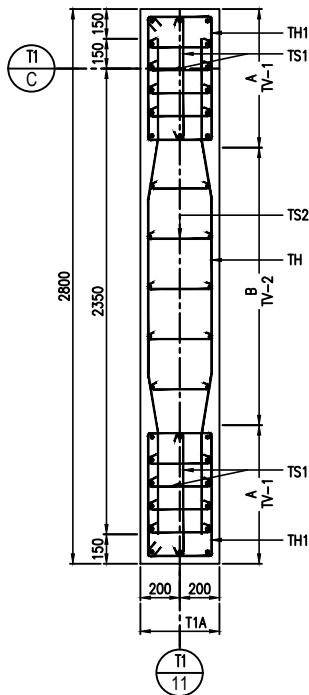
QUANTITY SURVEYORS :

DESIGN INTERIOR

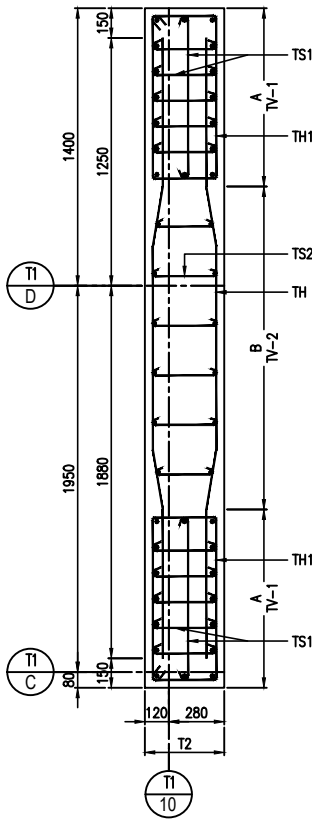
LANDSCAPE CONSULTANT :

DRAWING TITLE
DETAIL SHEARWALL W1A & W2

Drawn By		DATE
Job Captain		DATE
Project Architect	—	DATE
Project Manager	—	DATE
Project Director	—	DATE
OWNER APPROVAL		DATE
SCALE	1:20	
ISSUED FOR :	REVISION :	DRAWING NUMBER :
TENDER	0	S-K-23-R1
DATE :	PROJECT CODE :	FILE NUMBER:
19 MARET 2025	.	



DETAIL W1A (PIT LIFT - ATAP LIFT)
SKALA 1 : 20



DETAIL W2 (PIT LIFT - ATAP LIFT)
SKALA 1 : 20

TABEL PENULANGAN SHEARWALL W1A

	LANTAI	A (MM)	B (MM)	T1A (MM)	TV-1	TV-2	TH	TH1	TS-1	TS-2
LANTAI TYPICAL	ATAP LIFT									
	ATAP	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 20	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 19	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 18	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 17	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 16	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 15	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 12	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 11	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 10	700	1400	400	14 D19	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 9	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 8	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 7	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 6	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
PODIUM	LEVEL 5	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 3	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	5 D13-250
	LEVEL 2	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	3 D13-250
	GROUND	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	3 D13-250
	PIT LIFT	700	1400	400	14 D22	10 D13	D13-200	D13-100	5 D13-100	3 D13-250

TABEL PENULANGAN SHEARWALL W2

	LANTAI	A (MM)	B (MM)	T2 (MM)	TV-1	TV-2	TH	TH1	TS-1	TS-2
LANTAI TYPICAL	ATAP LIFT									
	ATAP	900	1630	400	16 D19	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	LEVEL 20	900	1630	400	16 D19	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	LEVEL 19	900	1630	400	16 D19	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	LEVEL 18	900	1630	400	16 D19	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	LEVEL 17	900	1630	400	16 D19	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	LEVEL 16	900	1630	400	16 D19	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	LEVEL 15	900	1630	400	16 D19	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	LEVEL 12	900	1630	400	16 D19	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	LEVEL 11	900	1630	400	16 D19	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	LEVEL 10	900	1630	400	16 D19	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	LEVEL 9	900	1630	400	16 D22	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	LEVEL 8	900	1630	400	16 D22	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	LEVEL 7	900	1630	400	16 D22	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	LEVEL 6	900	1630	400	16 D22	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
PODIUM	LEVEL 5	900	1630	400	16 D22	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	LEVEL 3	900	1630	400	16 D22	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	LEVEL 2	900	1630	400	16 D22	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	GROUND	900	1630	400	16 D22	12 D13	D13-200	D13-100	6 D13-100	6 D13-250
	PIT LIFT	900	1630	400	16 D22	12 D13	D13-200	D13-100	6 D13-100	6 D13-250

FOR TENDER

1. SEMUA UKURAN DALAM MILIMETER.
2. SEMUA ELEVASI LANTAI DALAM METER.
3. MUTU BETON :

TANG PANGANG D2 300X300, 450X450 : f_c = 45 MPa
PILE CAP, RAFT, TIE BEAM, DRAINING BASEMENT : f_c = 35 MPa

PODIUM :
KOLON : f_c = 35 MPa
BALOK, PELAT LANTAI : f_c = 30 MPa

TOWER :
KOLON, SHEARWALL, LINK BEAM :
- GWT - L9 : f_c = 45 MPa
- L10 - ATAP LIFT : f_c = 40 MPa
BALOK, PELAT :
- GWT - L9 : f_c = 35 MPa
- L10 - ATAP LIFT : f_c = 30 MPa

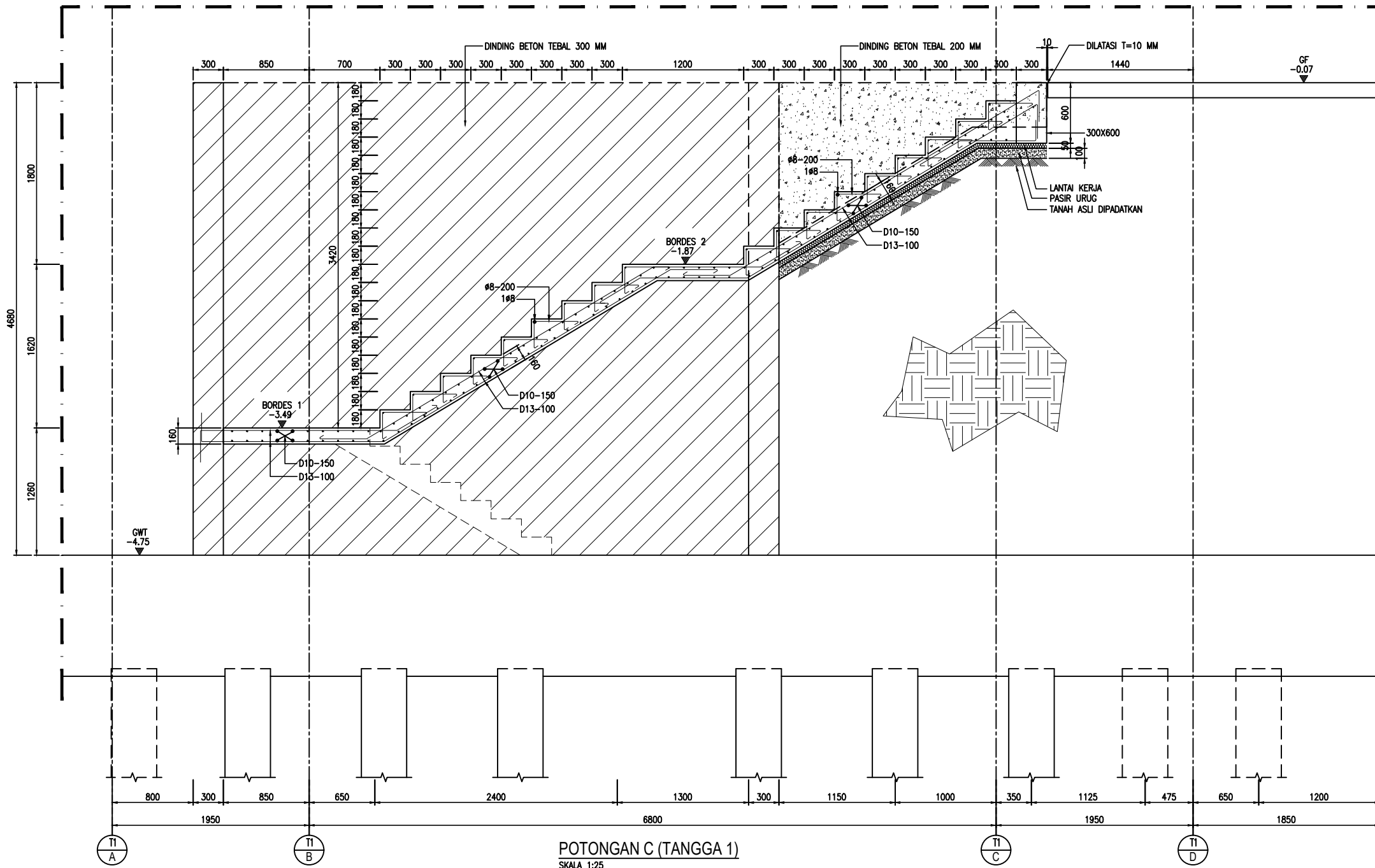
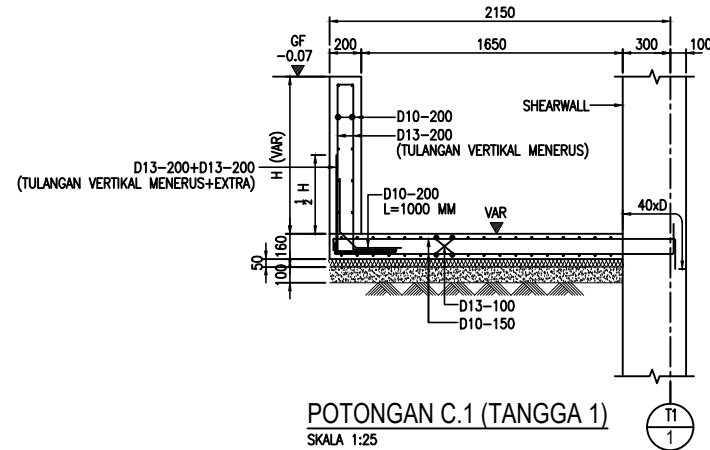
4. MUTU TULANGAN :
D = 10, 9/15 420 (p=420 MPa)
D > 12, 9/15 420 (p=420 MPa)
M (WEEKENDS), 9/15 520 (p=520 MPa)
5. MUTU BAJA : BJ 37 / SS 41 / Fe 360
6. MUTU LAS : E-70xx
7. MUTU BUNT : HTB A 325
8. FRT OF ±0.00 = +18.00 (KONTUR)

AREA BASHI

ISSUED

TABEL PENULANGAN SHEARWALL W3

		A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)	T3 (MM)	T3A (MM)	T3B (MM)	TV-1	TV-2	TV-3	TV-4	TV-5	TV-6	TH	TH1	TS-1	TS-2	TS-3	TS-4	TS-5
LANTAI TYPICAL	ATAP LIFT																						
	ATAP	900	1550	900	1400	2670	500	400	300	1000	26 D19	12 D13	20 D19	27 D16	22 D13	28 D19	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
	LEVEL 20	900	1550	900	1400	2670	500	400	300	1000	26 D19	12 D13	20 D19	27 D16	22 D13	28 D19	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
	LEVEL 19	900	1550	900	1400	2670	500	400	300	1000	26 D19	12 D13	20 D19	27 D16	22 D13	28 D19	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
	LEVEL 18	900	1550	900	1400	2670	500	400	300	1000	26 D19	12 D13	20 D19	27 D19	22 D13	28 D19	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
	LEVEL 17	900	1550	900	1400	2670	500	400	300	1000	26 D19	12 D13	20 D19	27 D19	22 D13	28 D19	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
	LEVEL 16	900	1550	900	1400	2670	500	400	300	1000	26 D19	12 D13	20 D19	27 D19	22 D13	28 D19	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
	LEVEL 15	900	1550	900	1400	2670	500	400	300	1000	26 D19	12 D13	20 D19	27 D19	22 D13	28 D19	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
	LEVEL 12	900	1550	900	1400	2670	500	400	300	1000	26 D19	12 D13	20 D19	27 D19	22 D13	28 D19	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
	LEVEL 11	900	1550	900	1400	2670	500	400	300	1000	26 D19	12 D13	20 D19	27 D19	22 D13	28 D19	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
	LEVEL 10	900	1550	900	1400	2670	500	400	300	1000	26 D19	12 D13	20 D19	27 D19	22 D13	28 D19	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
	LEVEL 9	900	1550	900	1400	2670	500	400	300	1000	26 D22	12 D13	20 D22	27 D19	22 D13	28 D22	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
	LEVEL 8	900	1550	900	1400	2670	500	400	300	1000	26 D22	12 D13	20 D22	27 D22	22 D13	28 D22	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
	LEVEL 7	900	1550	900	1400	2670	500	400	300	1000	26 D22	12 D13	20 D22	27 D22	22 D13	28 D22	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
	LEVEL 6	900	1550	900	1400	2670	500	400	300	1000	26 D22	12 D13	20 D22	27 D22	22 D13	28 D22	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
LEVEL 5	900	1550	900	1400	2670	500	400	300	1000	26 D22	12 D13	20 D22	27 D22	22 D13	28 D22	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250	
LEVEL 3	900	1550	900	1400	2670	500	400	300	1000	26 D25	12 D13	20 D25	27 D25	22 D13	28 D25	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250	
PODIUM	LEVEL 2	900	1550	900	1400	2670	500	400	300	1000	26 D25	12 D13	20 D25	27 D25	22 D13	28 D25	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
	GROUND	900	1550	900	1400	2670	500	400	300	1000	26 D25	12 D13	20 D25	27 D25	22 D13	28 D25	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250
	PIT LIFT	900	1550	900	1400	2670	500	400	300	1000	26 D25	12 D13	20 D25	27 D25	22 D13	28 D25	D13-200	D13-100	3 D13-100	4 D13-250	6 D13-100	13 D13-100	5 D13-250



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NOTES

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- SEMUA UKURAN DALAM MILIMETER.
- SEMUA ELEVASI LANTAI DALAM METER.
- MUTU BETON :
TANG PANCANG : 300X300, 450X450 : $f_c = 45$ MPa
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : $f_c = 35$ MPa

PODIUM :

KOLOM : $f_c = 35$ MPa
BALOK, PELAT LANTAI : $f_c = 30$ MPa

TOWER :

KOLOM, SHEARWALL, LINK BEAM :
- GWT - L9 : $f_c = 45$ MPa
- L10 - ATAP LIFT : $f_c = 40$ MPa

BALOK, PELAT :
- GWT - L9 : $f_c = 35$ MPa
- L10 - ATAP LIFT : $f_c = 30$ MPa

- MUTU TULANGAN :
D = 10, BJTS 420 ($f_y = 420$ MPa)
D > 12, BJTS 420 ($f_y = 420$ MPa)
M (WIREMESH), BJTS 520 ($f_y = 520$ MPa)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360

6. MUTU LAS : E-70 α

7. MUTU BAIT : HTB A 325

8. FTL GF $\pm 0.00 = +18.00$ (KONTUR)

AREA BASAH

ISSUED

No.	DESCRIPTION	DATE

REVISION

No.	REVISIONS	DATE

KEY PLAN :



PROJECT TITLE :

UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :

blueantz
Sulawesi Park, Office Block C No. 28 & 29, Jalan Mawar, Kota Kinabalu, Sabah, Malaysia
Phone : (61-25) 5194219 Fax : (61-25) 5194220 E-mail : info@blueantz.com
blueantz.com

STRUCTURE CONSULTANT :

KETIRA ENGINEERING CONSULTANTS
Ketira Engineering Consultants
No. 10, Jalan Ketira, Kota Kinabalu, Sabah, Malaysia
Phone : (61-25) 5194219 Fax : (61-25) 5194220 E-mail : info@ketira.com

MECHANICAL & ELECTRICAL CONSULTANT :

PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01, J. Pahlawan Sentra, Sepang Utara
Tangerang Selatan, Tangerang, Banten, 15139 Phone : (021) 5376217
Email : samasta.ura@samastarep.com Website : www.samastarep.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE

POTONGAN TANGGA 1

Drawn By

Job Captain

Project Architect

Project Manager

Project Director

ANNE RETIKA, MSc

OWNER APPROVAL

SCALE

1:25

ISSUED FOR :

TENDER

REVISION :

0

DRAWING NUMBER :

S-T-10

DATE :

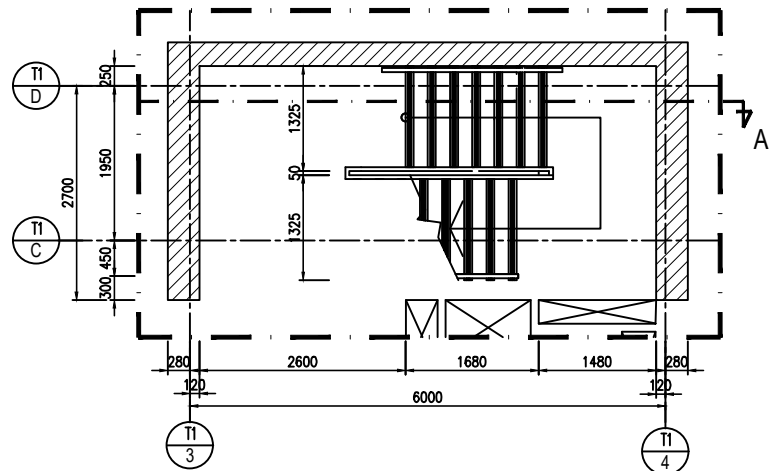
19 MARET 2025

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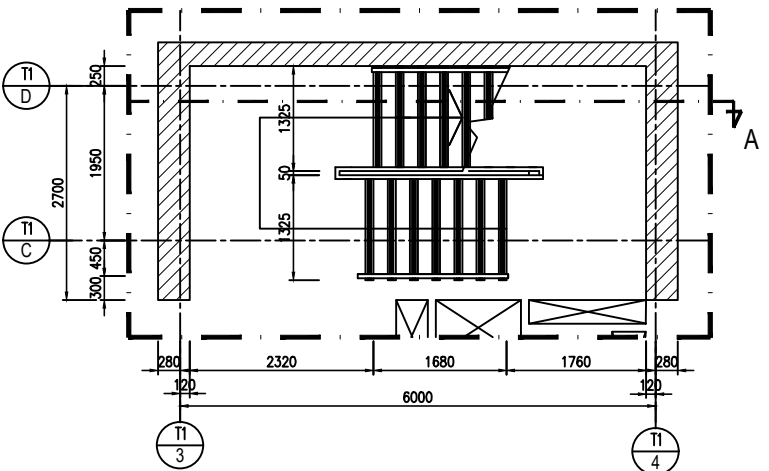
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FOR TENDER

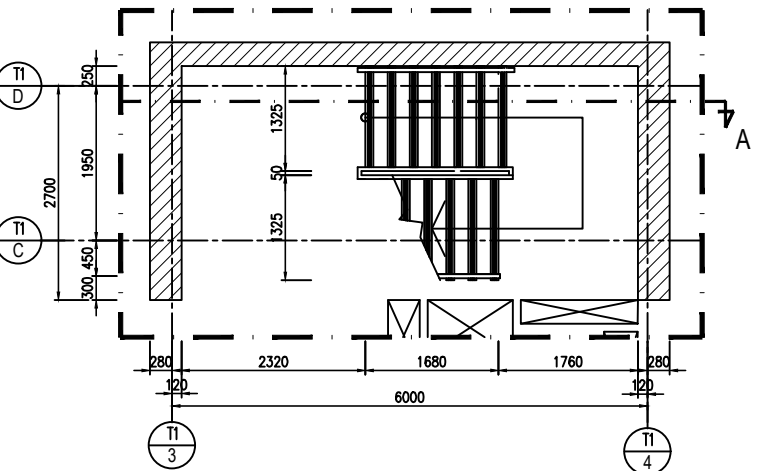
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LEVEL 6	+25.00	LEVEL 12	+52.00	LEVEL 18	+79.00	BORDES L5	+22.66	BORDES L11	+49.66
LEVEL 7	+29.50	LEVEL 13	+56.50	LEVEL 19	+84.00	BORDES L6	+27.16	BORDES L12	+54.16
LEVEL 8	+34.00	LEVEL 14	+61.00	LEVEL 20	+89.00	BORDES L7	+31.66	BORDES L13	+58.66
LEVEL 9	+38.50	LEVEL 15	+65.50			BORDES L8	+36.16	BORDES L14	+63.16
LEVEL 10	+43.00	LEVEL 16	+70.00			BORDES L9	+40.66	BORDES L15	+67.66
								BORDES L16	+72.16
								BORDES L17	+76.66
								BORDES 1 L18	+80.25
								BORDES 2 L18	+81.50
								BORDES 3 L18	+82.75
								BORDES 1 L19	+85.25
								BORDES 2 L19	+86.50
								BORDES 3 L19	+87.75
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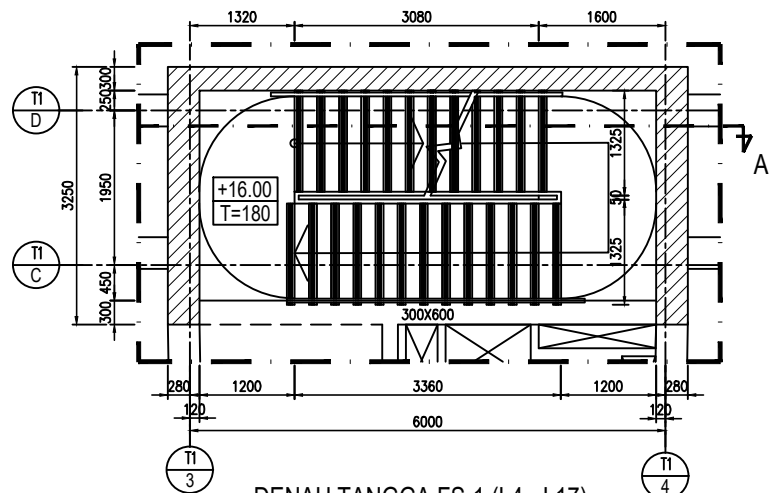
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SKALA 1:50



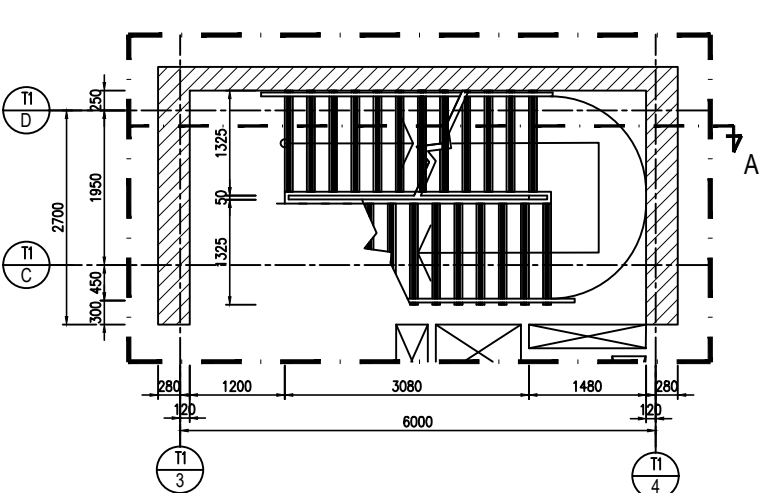
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SKALA 1:50



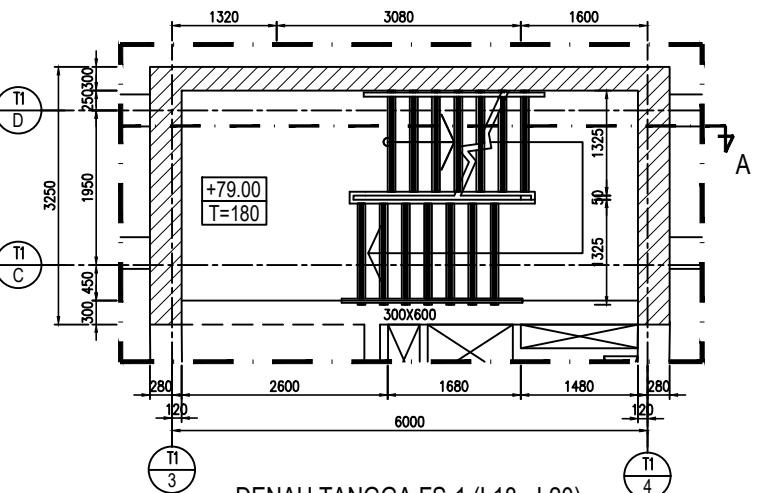
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SKALA 1:50



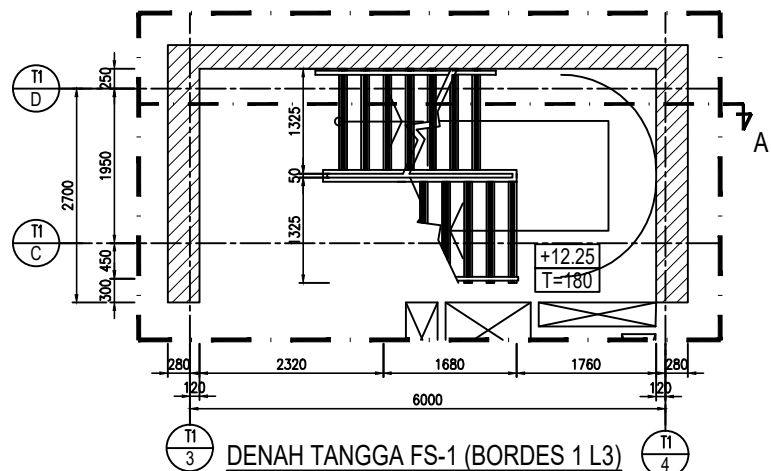
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SKALA 1:50



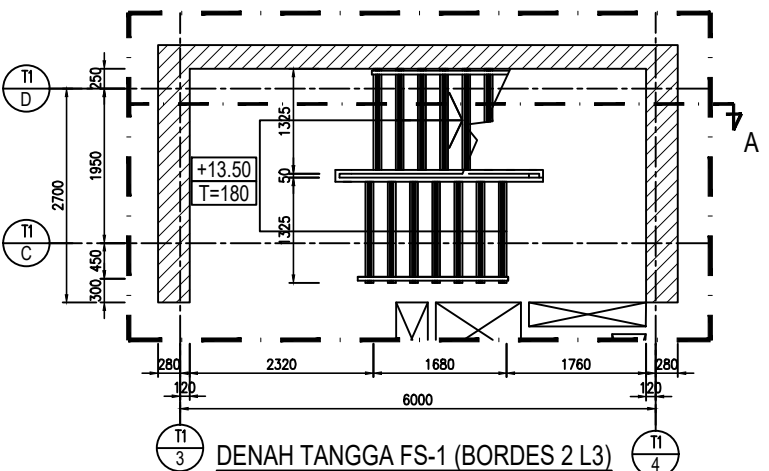
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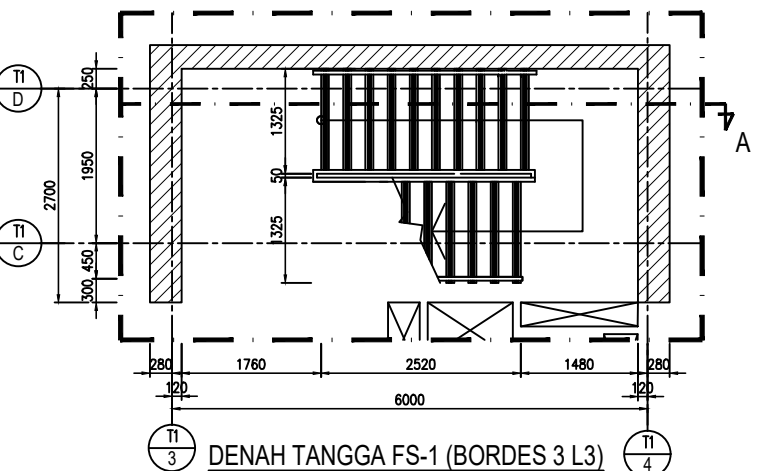
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SKALA 1:50



DENAH TANGGA FS-1 (BORDES 1 L3)
SKALA 1:50



DENAH TANGGA FS-1 (BORDES 2 L3)
SKALA 1:50



DENAH TANGGA FS-1 (BORDES 3 L3)
SKALA 1:50

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NOTES
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1. SEMUA UKURAN DALAM MILIMETER.
2. SEMUA ELEVASI LANTAI DALAM METER.
3. MUTU BETON :
TANG PANCANG Ø 300X300, 450X450 : $f_c = 45$ MPa
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : $f_c = 35$ MPa
PODIUM :
KOLOM : $f_c = 35$ MPa
BALOK, PELAT LANTAI : $f_c = 30$ MPa
TOWER :
KOLOM, SHEARWALL, LINK BEAM :
- GWT - L9 : $f_c = 45$ MPa
- L10 - ATAP LIFT : $f_c = 40$ MPa
BALOK, PELAT :
- GWT - L9 : $f_c = 35$ MPa
- L10 - ATAP LIFT : $f_c = 30$ MPa
4. MUTU TULANGAN :
D = 10, BJTS 420 ($f_y=420$ MPa)
D > 12, BJTS 420 ($f_y=420$ MPa)
M (WIREMESH), BJTS 520 ($f_y=520$ MPa)
5. MUTU BAJA : BJ 37 / SS 41 / Fe 360
6. MUTU LAS : E-70xx
7. MUTU BANT : HTB A 325
8. FTL GF $\pm 0.00 = +18.00$ (KONTUR)
AREA BASAH

ISSUED		
No.	DESCRIPTION	DATE
REVISION		
No.	REVISIONS	DATE

KEY PLAN :

PROJECT TITLE :
UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :
blueantz
Sulawesi Park, Office Block C No.28 A, KAL. Mera Mera, Kota Kinabalu, Sabah, Malaysia
Phone : (+62-85) 51947919 Fax : (+62-85) 51947920 E-mail : info@blueantz.com
blueantz.com

STRUCTURE CONSULTANT :
KETIRA ENGINEERING CONSULTANTS
Ketira Engineering Consultants
Ketira Engineering Consultants
Ketira Engineering Consultants

MECHANICAL & ELECTRICAL CONSULTANT :
PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01 - J. Pahlawan Selat, Serpong Utara
Tangerang Selatan, Tangerang, Banten, 15139 Phone : (021) 5332117
Email : samasta.ama@samastarep.com Website : www.samastarep.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

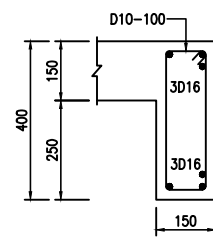
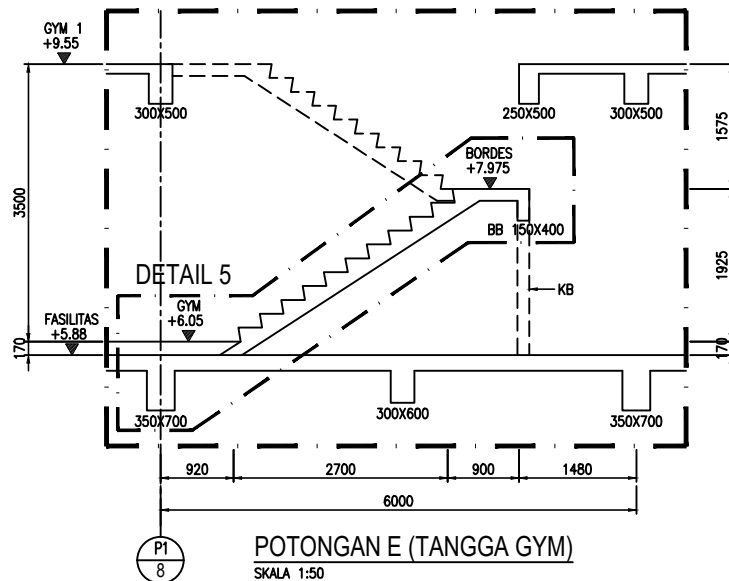
LANDSCAPE CONSULTANT :

DRAWING TITLE
DENAH TANGGA FS-1

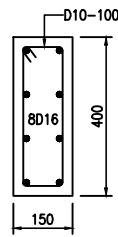
Drawn By		DATE
Job Captain		DATE
Project Architect	-	DATE
Project Manager	-	DATE
Project Director	ANNIE RETIKA, MSc	DATE
OWNER APPROVAL		DATE

SCALE	1:50	
ISSUED FOR :	REVISION :	DRAWING NUMBER :
TENDER	0	S-T-02
DATE :	PROJECT CODE :	FILE NUMBER:
19 MARET 2025		

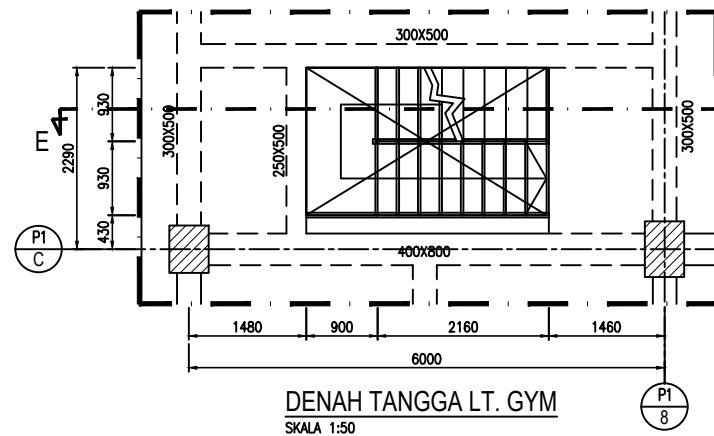
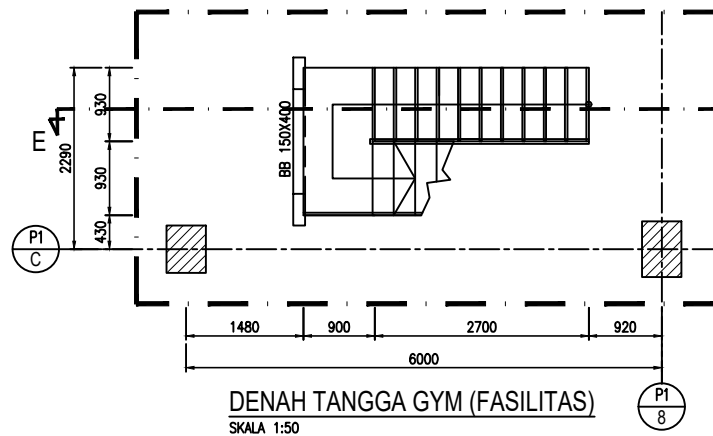
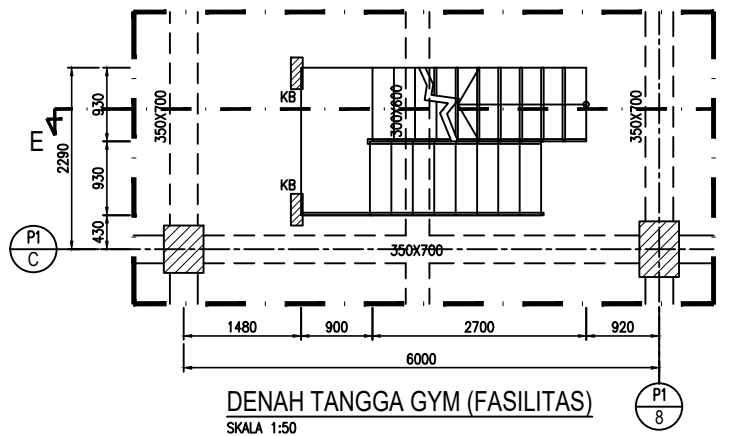
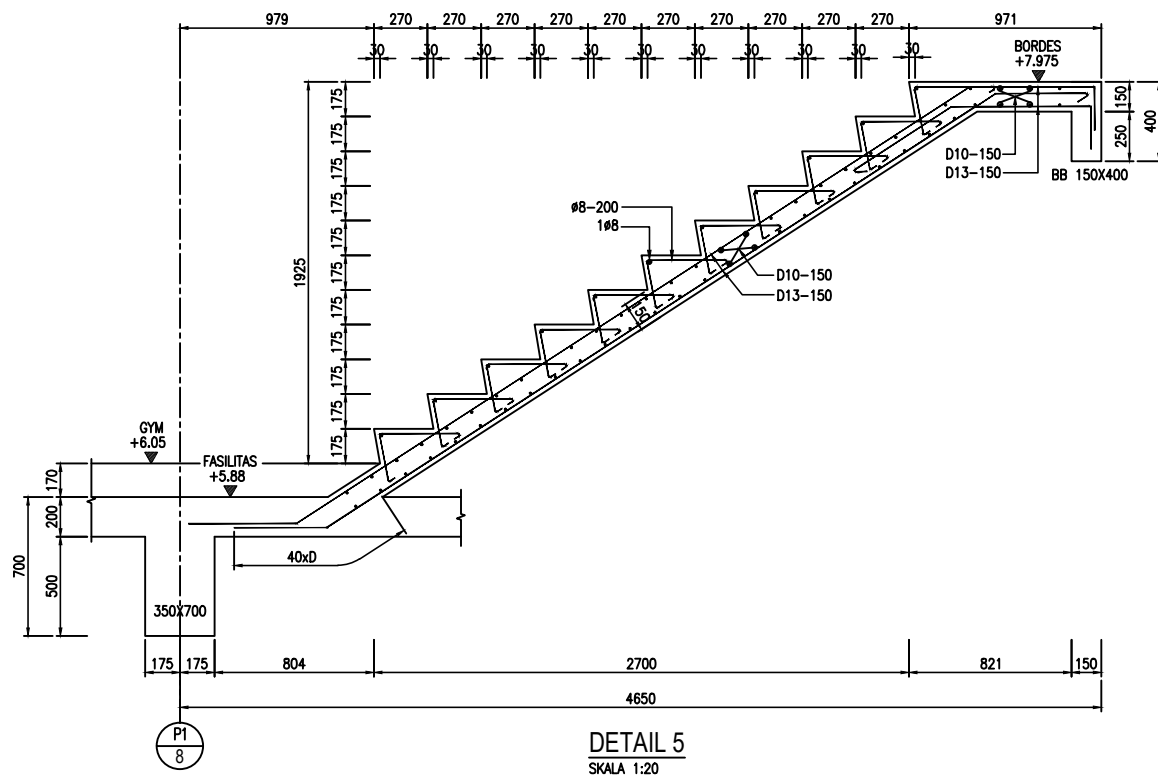
Signature
FOR TENDER



DETAIL BB (150X400)
SKALA 1:10



DETAIL KB (150X400)
SKALA 1:10



Isabella,
FOR TENDER

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NOTES
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1. SEMUA UKURAN DALAM MILIMETER.
2. SEMUA ELEVASI LANTAI DALAM METER.
3. MUTU BETON :
TANG PANCANG Ø 300X300, 450X450 : $f_c = 45$ MPa
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : $f_c = 35$ MPa
PODILUM :
KOLOM : $f_c = 35$ MPa
BALOK, PELAT LANTAI : $f_c = 30$ MPa
TOWER :
KOLOM, SHEARWALL, LINK BEAM :
- GWT - L9 : $f_c = 45$ MPa
- L10 - ATAP LIFT : $f_c = 40$ MPa
BALOK, PELAT :
- GWT - L9 : $f_c = 35$ MPa
- L10 - ATAP LIFT : $f_c = 30$ MPa
4. MUTU TULANGAN :
D = 10, BJTS 420 ($f_y=420$ MPa)
D > 12, BJTS 420 ($f_y=420$ MPa)
M (WIREMESH), BJTS 520 ($f_y=520$ MPa)
5. MUTU BAJA : BJ 37 / SS 41 / Fe 360
6. MUTU LAS : E-70xx
7. MUTU BAUT : HTB A 325
8. FTL GF $\pm 0.00 = +18.00$ (KONTUR)
AREA BASAH

ISSUED		
No.	DESCRIPTION	DATE
REVISION		
No.	REVISIONS	DATE

KEY PLAN :		

PROJECT TITLE :	
UrbnX APARTMENT	

OWNER :	

DESIGN ARCHITECT :	
blueantz	

STRUCTURE CONSULTANT :	
KETIRA ENGINEERING CONSULTANTS	

MECHANICAL & ELECTRICAL CONSULTANT :	
PT. SAMASTA REKAYASA TEKNIK	

QUANTITY SURVEYORS :	

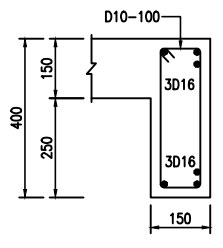
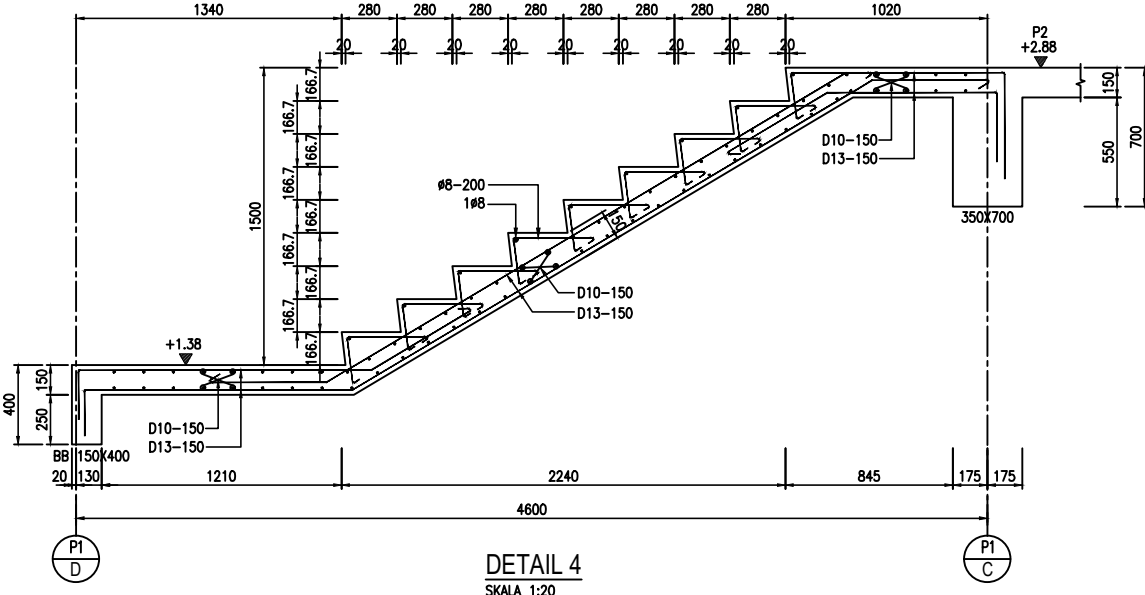
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LANDSCAPE CONSULTANT :	

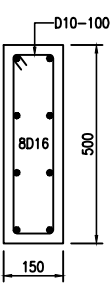
DRAWING TITLE	
DENAH, POTONGAN & DETAIL TANGGA 2	

Drawn By		DATE
Job Captain		DATE
Project Architect	-	DATE
Project Manager	-	DATE
Project Director	ANNIE RETIKA, MSc	DATE
OWNER APPROVAL		DATE
SCALE	1:50, 1:20, 1:10	
ISSUED FOR :	REVISION :	DRAWING NUMBER :
TENDER	0	S-T-11
DATE :	PROJECT CODE :	FILE NUMBER:
19 MARET 2025	.	

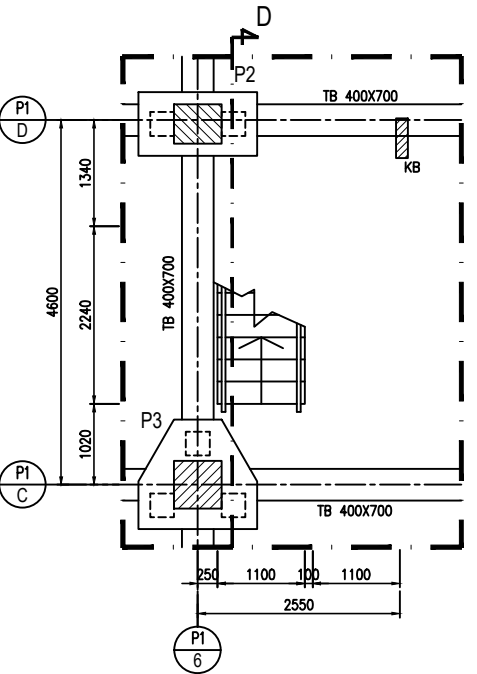
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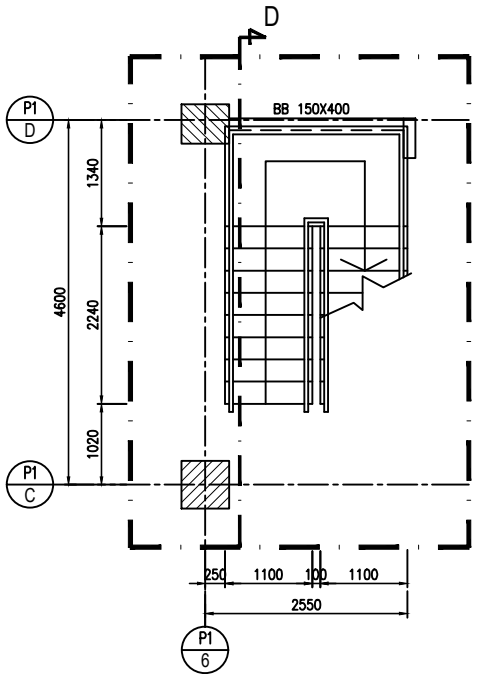
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SKALA 1:10



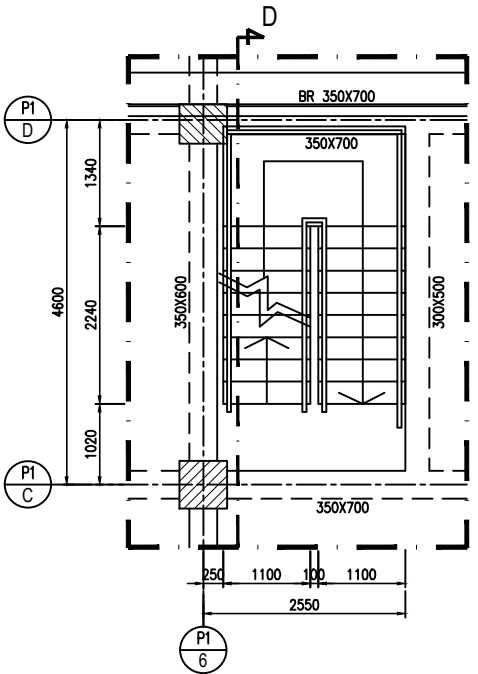
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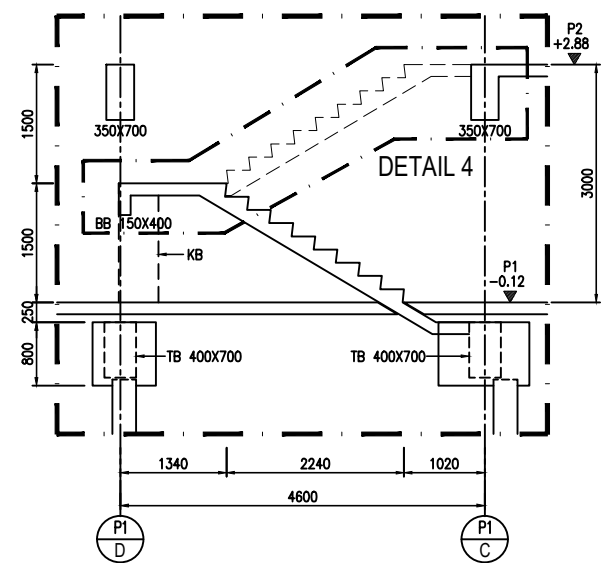
DENAH TANGGA 2 (P1)
SKALA 1:50



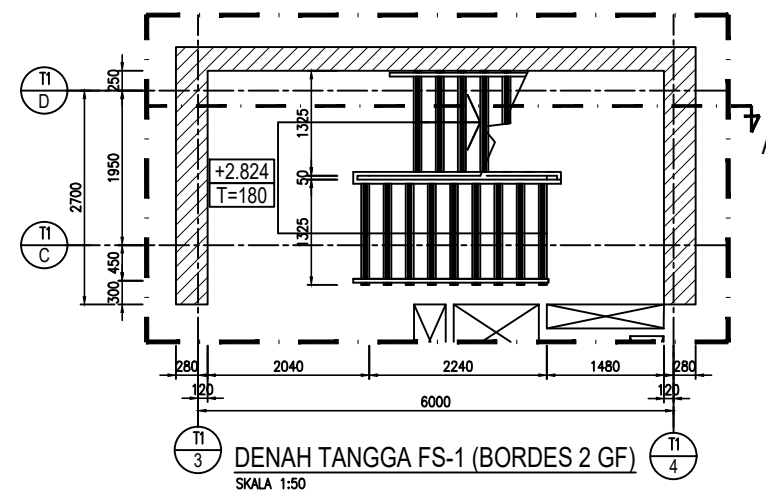
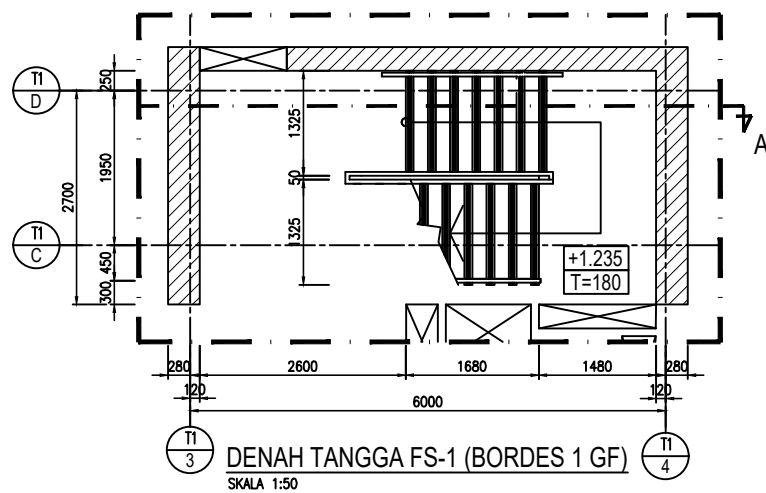
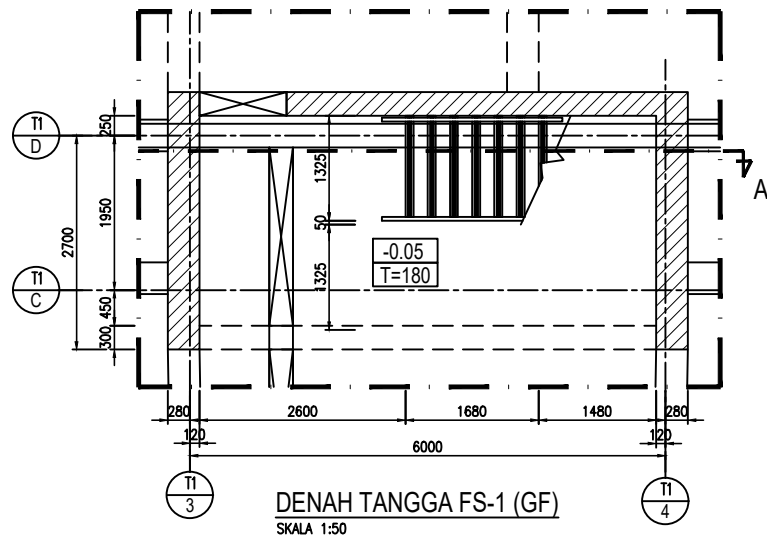
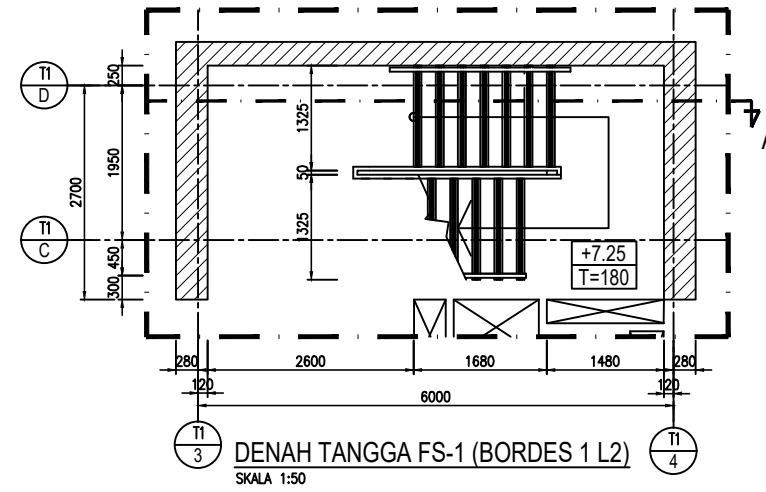
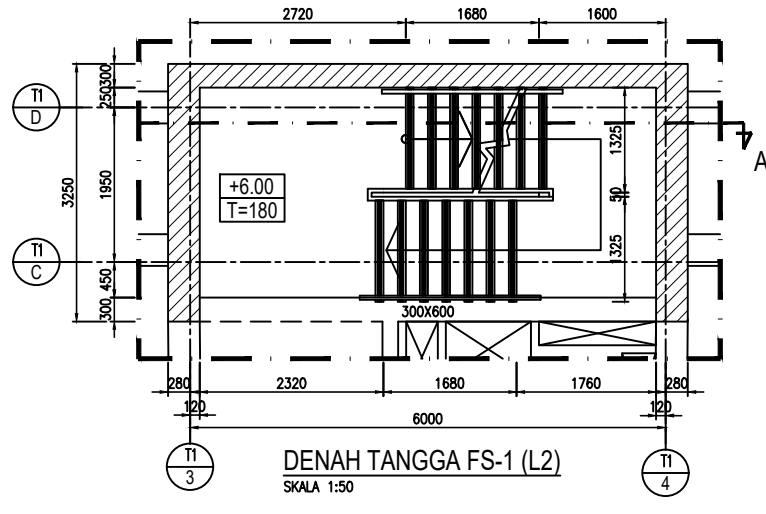
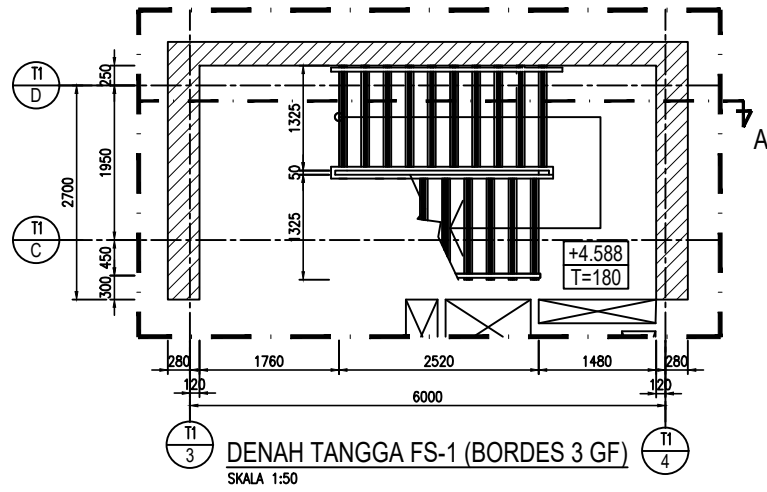
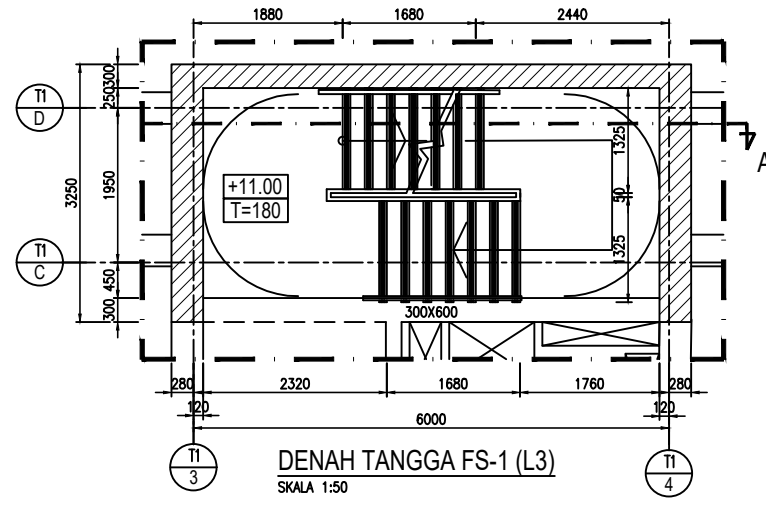
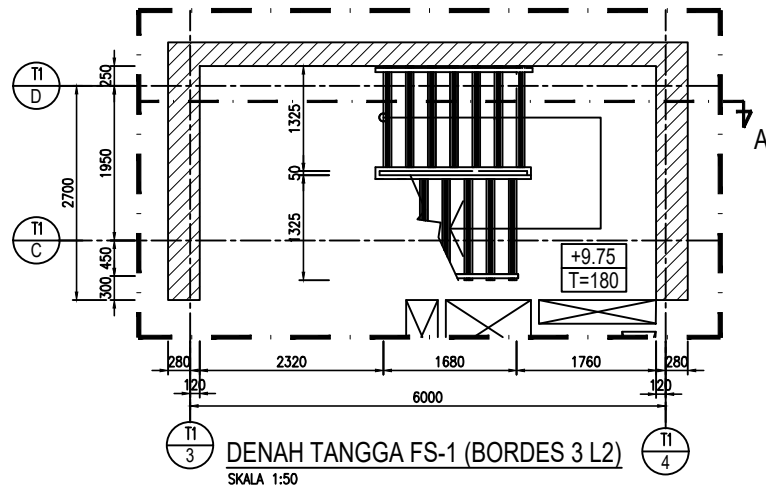
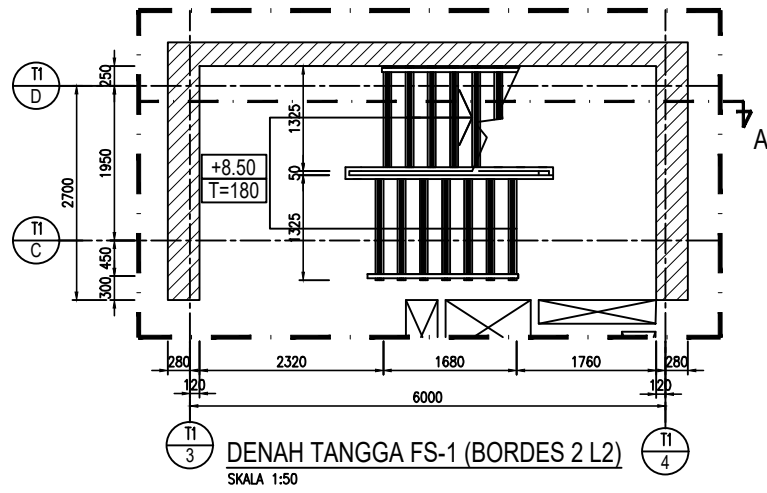
DENAH TANGGA 2 (BORDES P1)
SKALA 1:50



DENAH TANGGA 2 (P2)
SKALA 1:50



POTONGAN D (TANGGA 2)
SKALA 1:50



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NOTES

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2. SEMUA ELEVASI LANTAI DALAM METER.

3. MUTU BETON :
TANG PANCANG Ø 300X300, 450X450 : f_c = 45 MPa
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : f_c = 35 MPa

PODLUM :

KOLOM : f_c = 35 MPa

BALOK, PELAT LANTAI : f_c = 30 MPa

TOWER :

KOLOM, SHEARWALL, LINK BEAM :

- GWT - L9 : f_c = 45 MPa

- L10 - ATAP LIFT : f_c = 40 MPa

BALOK, PELAT :

- GWT - L9 : f_c = 35 MPa

- L10 - ATAP LIFT : f_c = 30 MPa

4. MUTU TULANGAN :

D = 10, BJTS 420 (f_y=420 MPa)

D > 12, BJTS 420 (f_y=420 MPa)

M (WIREMESH), BJTS 520 (f_y=520 MPa)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360

6. MUTU LAS : E-70xx

7. MUTU BAIT : HTB A 325

8. FTL GF ±0.00 = +18.00 (KONTUR)

AREA BASAH

ISSUED

No.	DESCRIPTION	DATE

REVISION

No.	REVISIONS	DATE

KEY PLAN :

PROJECT TITLE :

UrbnX APARTMENT

OWNER :

--

DESIGN ARCHITECT :

blueantz

Suburban Park, Office Block C No.28 A, KAL. Mas Manager (Kau.28) Jakarta Pusat 10220
Phone : (021-25) 5194799 Fax : (021-25) 5194733 E-mail : info@blueantz.com
INDONESIA

STRUCTURE CONSULTANT :

KETIRA ENGINEERING CONSULTANTS

MECHANICAL & ELECTRICAL CONSULTANT :
PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01, J. Pahlawan Senby, Serpong Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5332117
Email : samasta.ama@samastarep.com Website : www.samastarep.com

QUANTITY SURVEYORS :

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DESIGN INTERIOR

--

LANDSCAPE CONSULTANT :

--

DRAWING TITLE

DENAH TANGGA FS-1

Drawn By		DATE
Job Captain		DATE
Project Architect		DATE
Project Manager		DATE
Project Director	ANNE RETIKA, MSc	DATE
OWNER APPROVAL		DATE

SCALE

1:50

ISSUED FOR :

TENDER

DATE :

19 MARET 2025

REVISION :

0

PROJECT CODE :

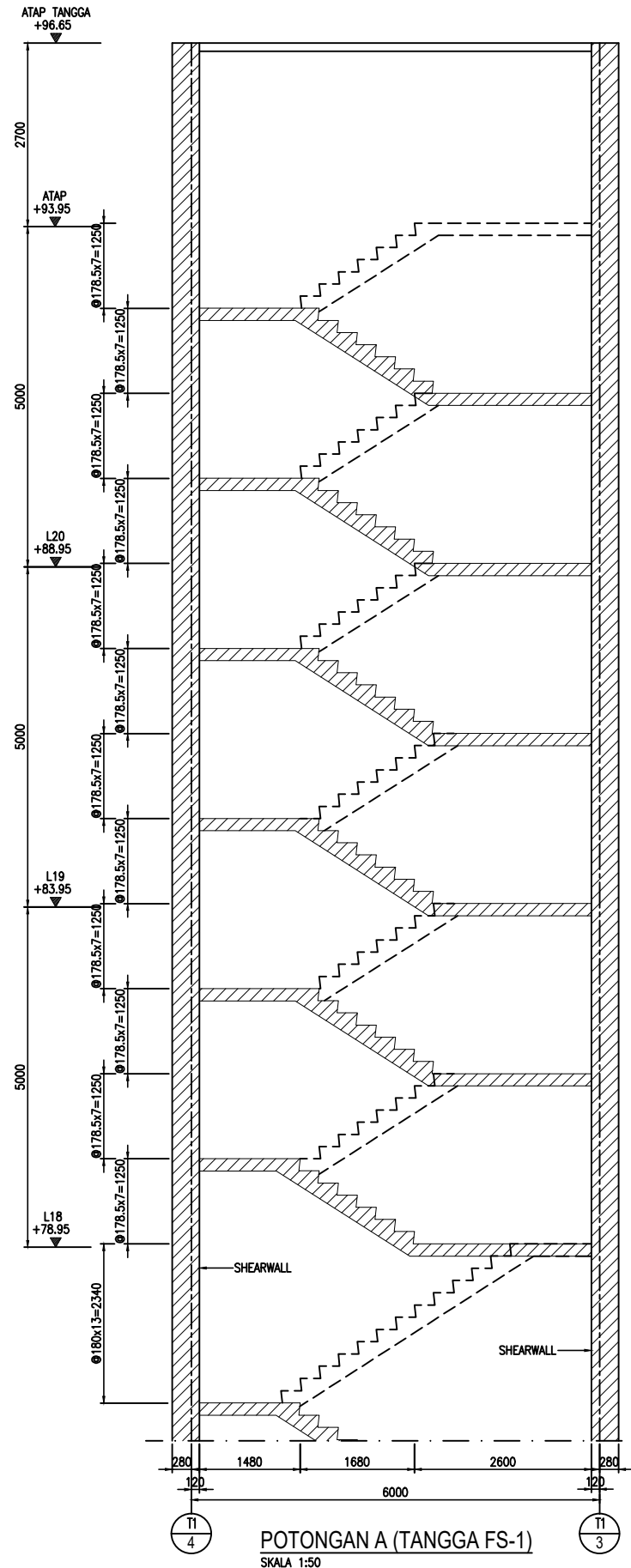
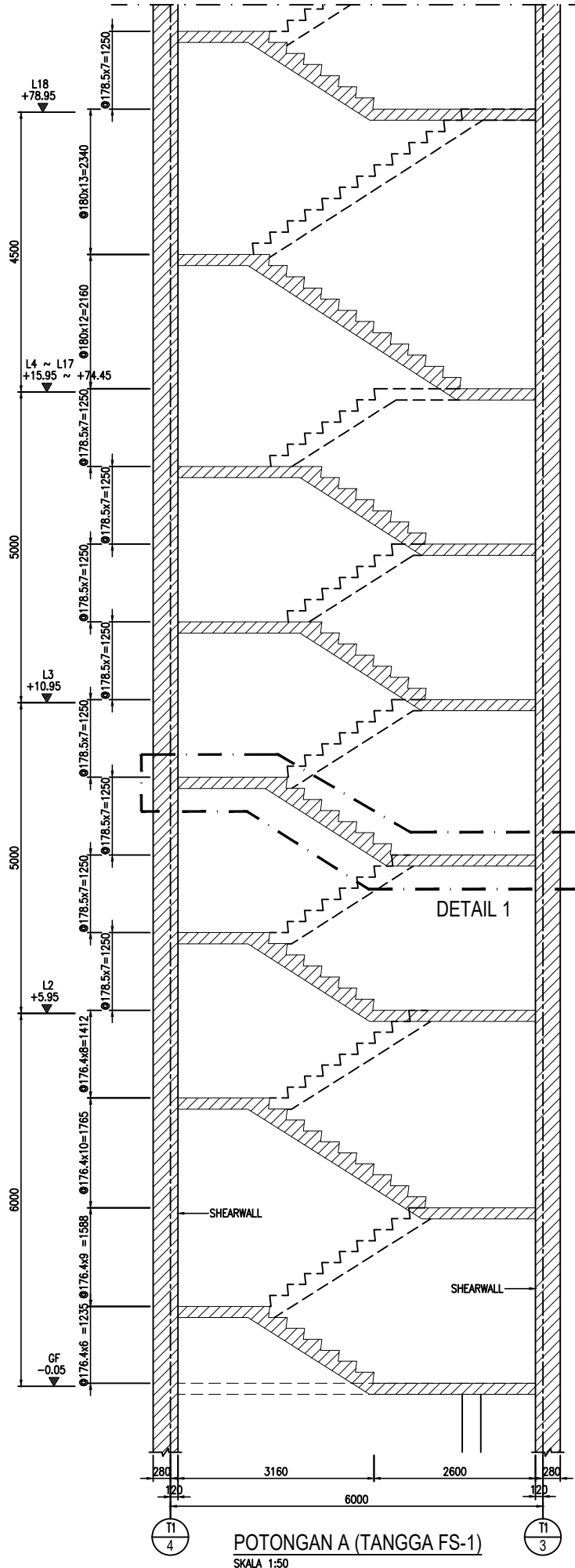
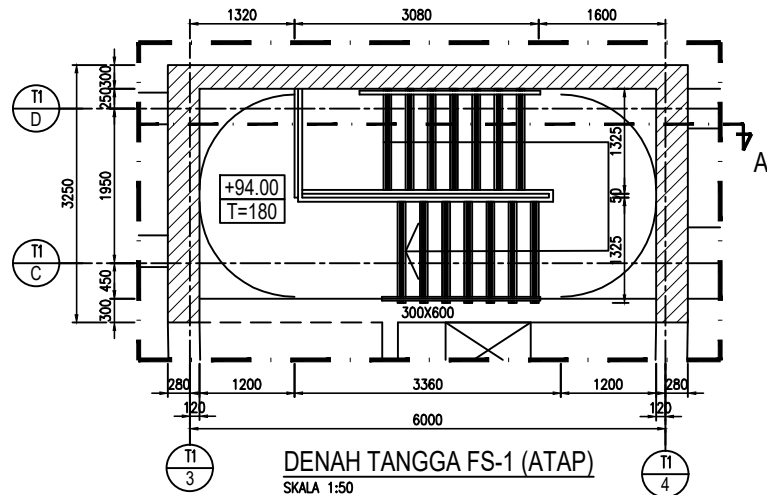
DRAWING NUMBER :

S-T-01

FILE NUMBER:

Signature

FOR TENDER



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TANG PANCANG 23 300X300, 450X450 : f_c = 45 MPa
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : f_c = 35 MPa

PODIUM :

KOLOM : f_c = 35 MPa
BALOK, PELAT LANTAI : f_c = 30 MPa

TOWER :

KOLOM, SHEARWALL, LINK BEAM :
- GWT - L9 : f_c = 45 MPa
- L10 - ATAP LIFT : f_c = 40 MPa

BALOK, PELAT :

- GWT - L9 : f_c = 35 MPa
- L10 - ATAP LIFT : f_c = 30 MPa

4. MUTU TULANGAN :

D = 10, BJTS 420 (fy=420 MPa)
D > 12, BJTS 420 (fy=420 MPa)
M (WIREMESH), BJTS 520 (fy=520 MPa)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360

6. MUTU LAS : E-70xx

7. MUTU BAUT : HTB A 325

8. FTL GF ±0.00 = +18.00 (KONTUR)

AREA BASAH

ISSUED

No.	DESCRIPTION	DATE

REVISION

No.	REVISIONS	DATE

KEY PLAN :

No.	REVISIONS	DATE

PROJECT TITLE :

UrbnX APARTMENT

OWNER :

--

DESIGN ARCHITECT :

blue antz

STRUCTURE CONSULTANT :

KETIRA ENGINEERING CONSULTANTS

MECHANICAL & ELECTRICAL CONSULTANT :

PT. SAMASTA REKAYASA TEKNIK

QUANTITY SURVEYORS :

--

DESIGN INTERIOR

--

LANDSCAPE CONSULTANT :

--

DRAWING TITLE

DENAH & POTONGAN TANGGA FS-1

Drawn By

	DATE
--	------

Job Captain

	DATE
--	------

Project Architect

	DATE
--	------

Project Manager

	DATE
--	------

Project Director

ANNE RETIKA, MSc	DATE
------------------	------

OWNER APPROVAL

	DATE
--	------

SCALE

1:50

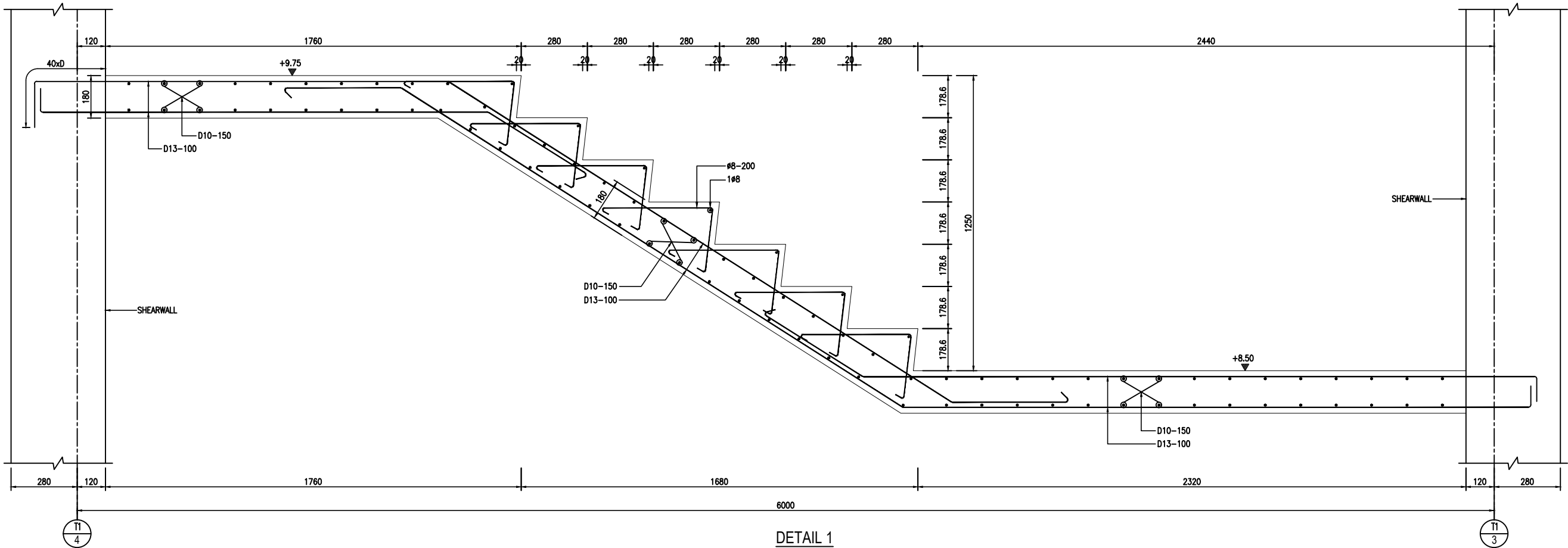
ISSUED FOR :

TENDER	REVISION : 0	DRAWING NUMBER : S-T-03
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DATE :

19 MARET 2025	PROJECT CODE :	FILE NUMBER :
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FOR TENDER



DETAIL 1
SKALA 1:10

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4. MUTU TULANGAN : D = 10, BJTS 420 (fy=420 MPa) D > 12, BJTS 420 (fy=420 MPa) M (WIREMESH), BJTS 520 (fy=520 MPa)		
5. MUTU BAJA : BJ 37 / SS 41 / Fe 360		
6. MUTU LAS : E-70xx		
7. MUTU BAUT : HTB A 325		
8. FTL GF ±0.00 = +18.00 (KONTUR)		
AREA BASAH		

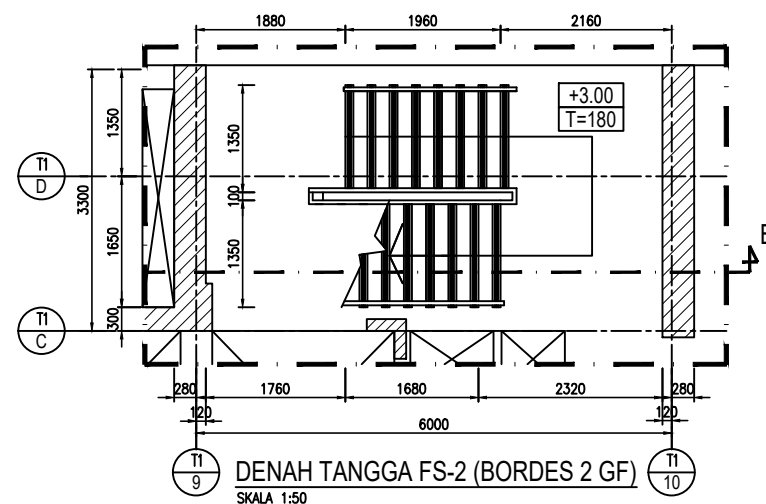
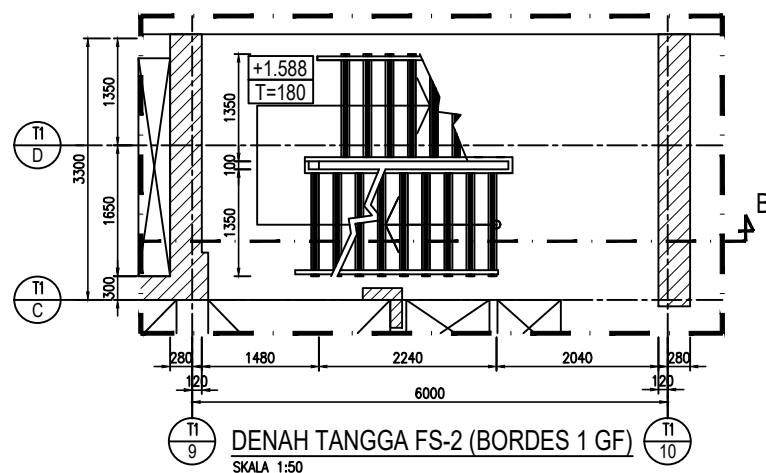
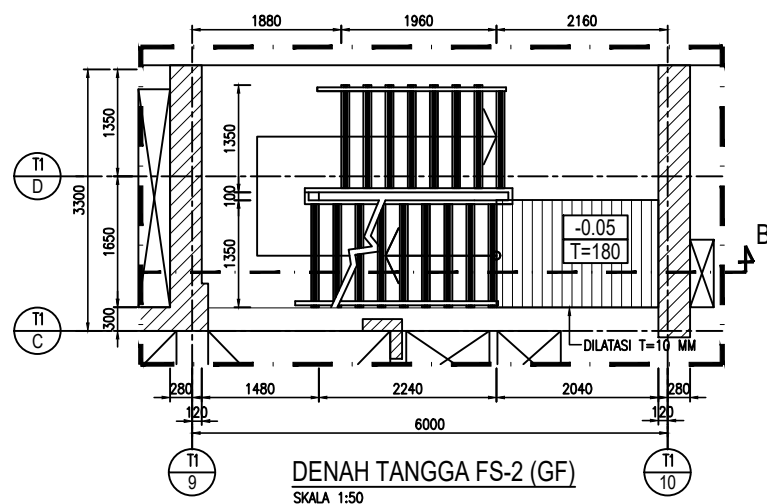
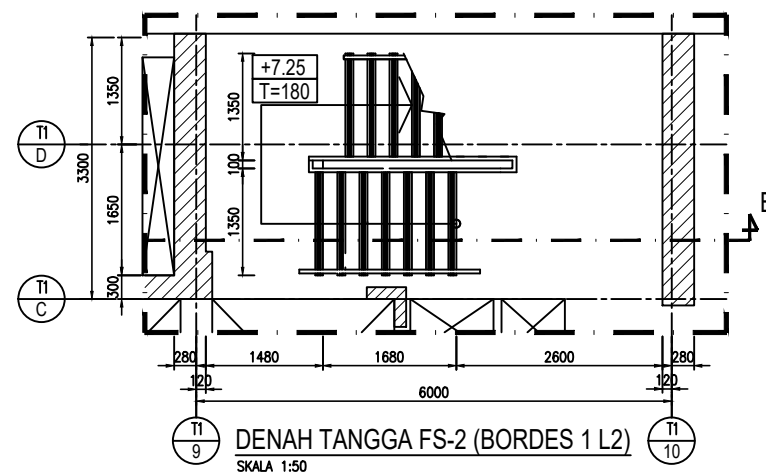
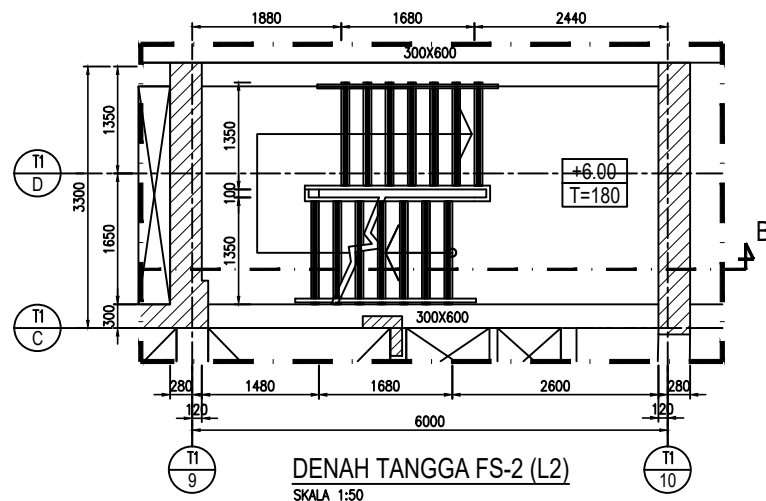
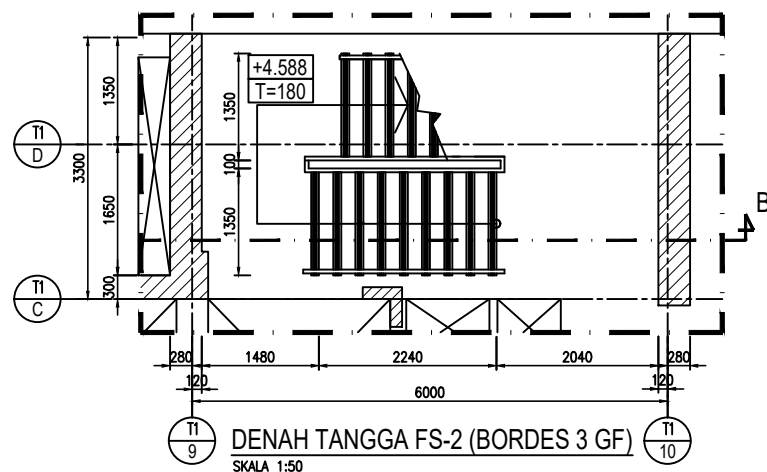
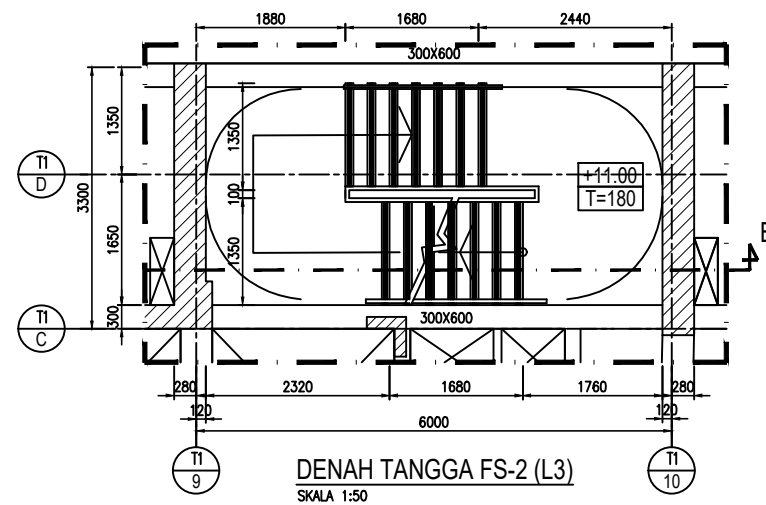
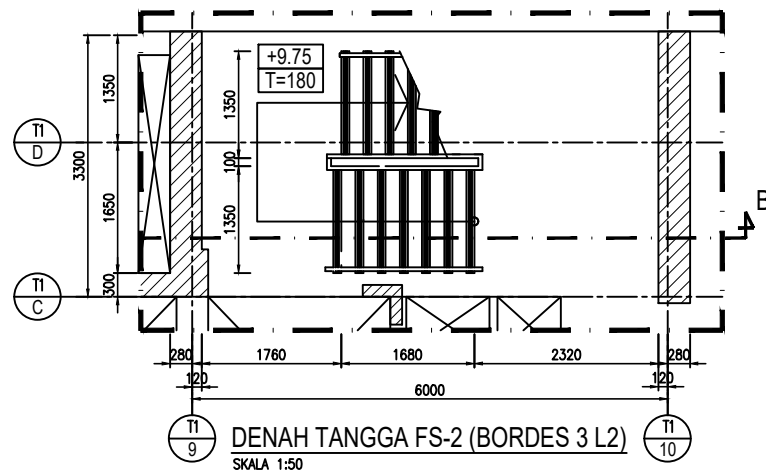
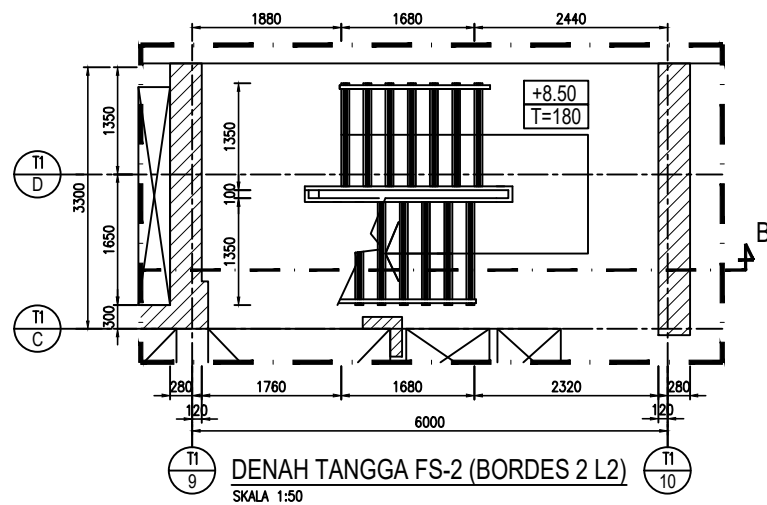
ISSUED		
No.	DESCRIPTION	DATE
REVISION		
No.	REVISIONS	DATE

KEY PLAN :		

PROJECT TITLE :		
UrbnX APARTMENT		
OWNER :		
DESIGN ARCHITECT :		
blueantz		
Sulawesi Park, Office Block C No.28 J. K.A. Maw Mangrove No.28 Jakarta Pusat 10220 Phone : (62-21) 57947219 Fax : (62-21) 57947220 E-mail : info@blueantz.com blueantz.com		
STRUCTURE CONSULTANT :		
KETIRA ENGINEERING CONSULTANTS		
MECHANICAL & ELECTRICAL CONSULTANT :		
PT. SAMASTA REKAYASA TEKNIK		
Mechanical, Electrical & Plumbing Consultant Ruko Golden Boulevard, Blok V No. 01 J. Pahlawan Senby, Serpong Utara Tangerang Selatan, Tangerang, Banten 15319 Phone : (021) 5332117 Email : samasta.umar@samastarekayasa.com Website : www.samastarekayasa.com		
QUANTITY SURVEYORS :		
DESIGN INTERIOR		
LANDSCAPE CONSULTANT :		

DRAWING TITLE		
DETAIL TANGGA FS-1		
Drawn By		DATE
Job Captain		DATE
Project Architect	-	DATE
Project Manager	-	DATE
Project Director	ANNIE RETIKA, MSc	DATE
OWNER APPROVAL		DATE
SCALE	1:10	
ISSUED FOR :	REVISION :	DRAWING NUMBER :
TENDER	0	S-T-04
DATE :	PROJECT CODE :	FILE NUMBER:
19 MARET 2025	.	

FOR TENDER



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PODLUM :
KOLOM : $f_c = 35$ MPa
BALOK, PELAT LANTAI : $f_c = 30$ MPa

TOWER :
KOLOM, SHEARWALL, LINK BEAM :
- GWT - L9 : $f_c = 45$ MPa
- L10 - ATAP LIFT : $f_c = 40$ MPa
BALOK, PELAT :
- GWT - L9 : $f_c = 35$ MPa
- L10 - ATAP LIFT : $f_c = 30$ MPa

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D > 12, BJTS 420 ($f_y=420$ MPa)
M (WIREMESH), BJTS 520 ($f_y=520$ MPa)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360

6. MUTU LAS : E-70xx

7. MUTU BAUT : HTB A 325

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AREA BASAH

ISSUED

No.	DESCRIPTION	DATE

REVISION

No.	REVISIONS	DATE

KEY PLAN :

PROJECT TITLE :

OWNER :

DESIGN ARCHITECT :

STRUCTURE CONSULTANT :

MECHANICAL & ELECTRICAL CONSULTANT :

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE

DENAH TANGGA FS-2

Drawn By

Job Captain

Project Architect

Project Manager

Project Director

OWNER APPROVAL

SCALE

ISSUED FOR :

TENDER

DATE :

19 MARET 2025

REVISION :

0

DRAWING NUMBER :

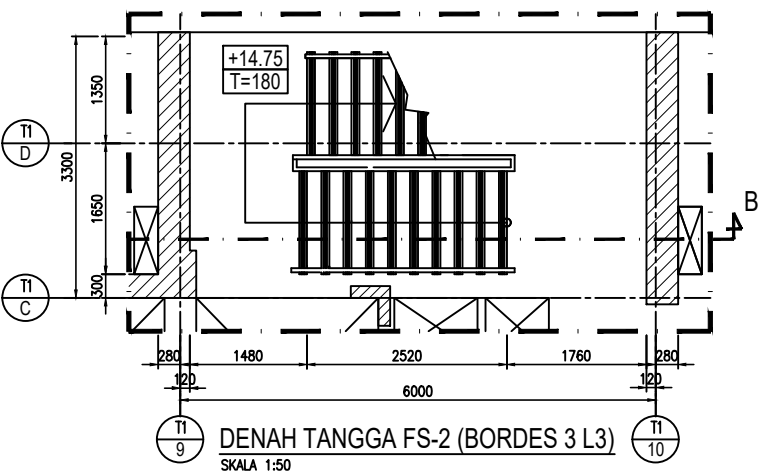
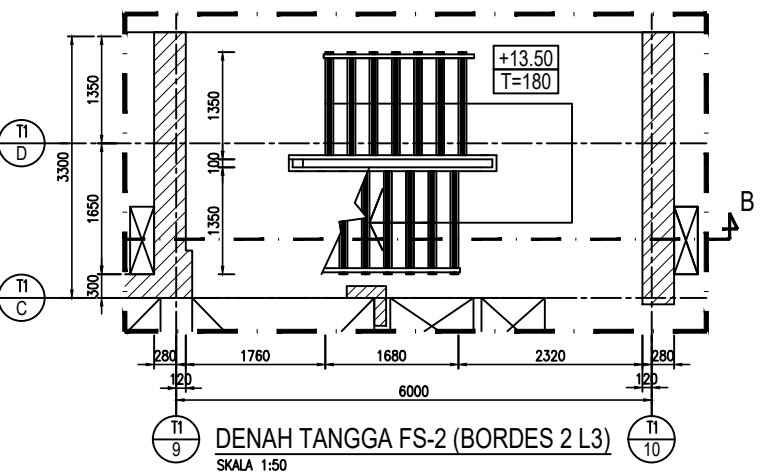
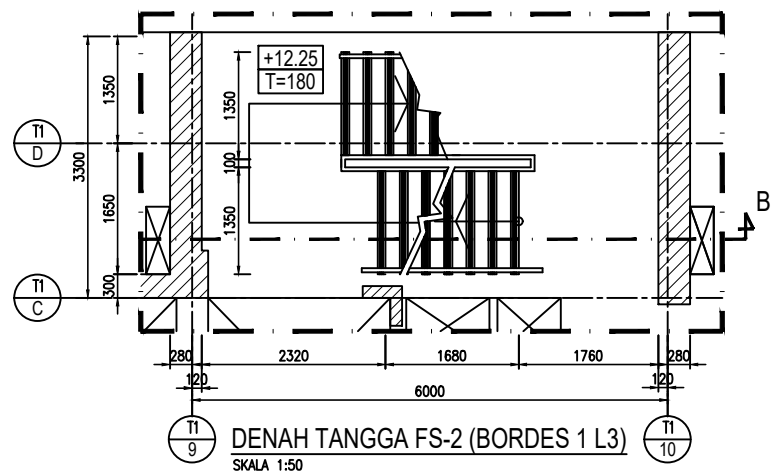
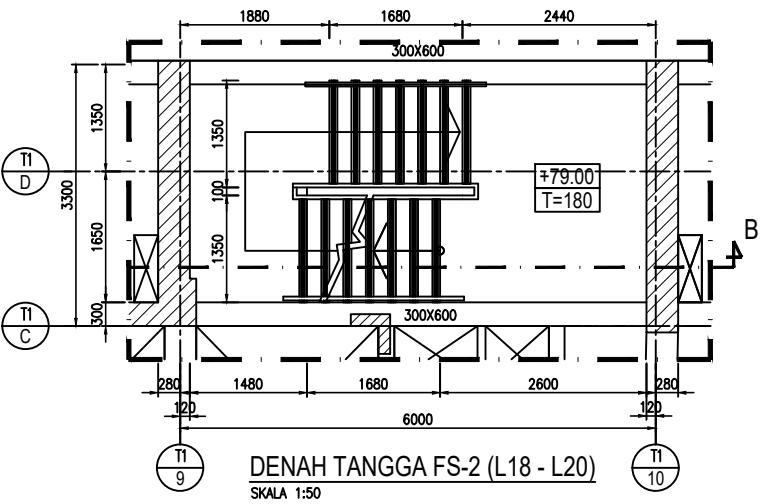
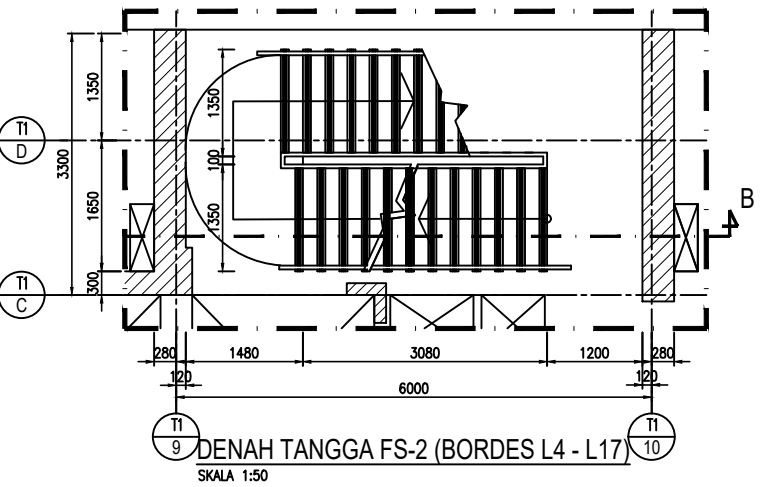
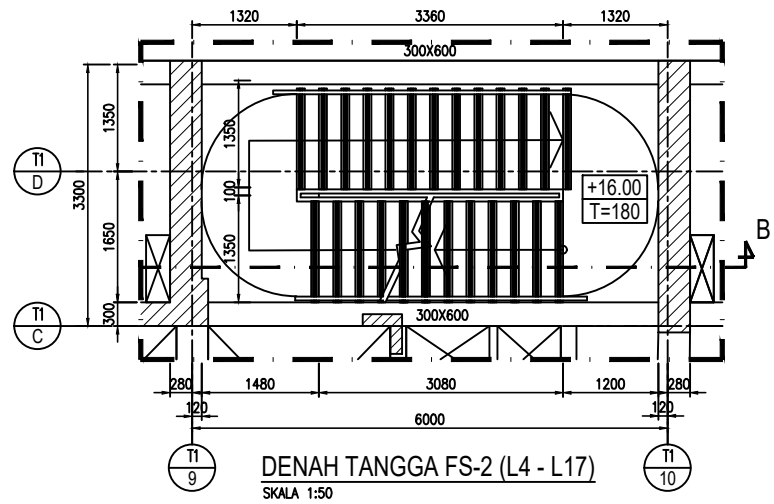
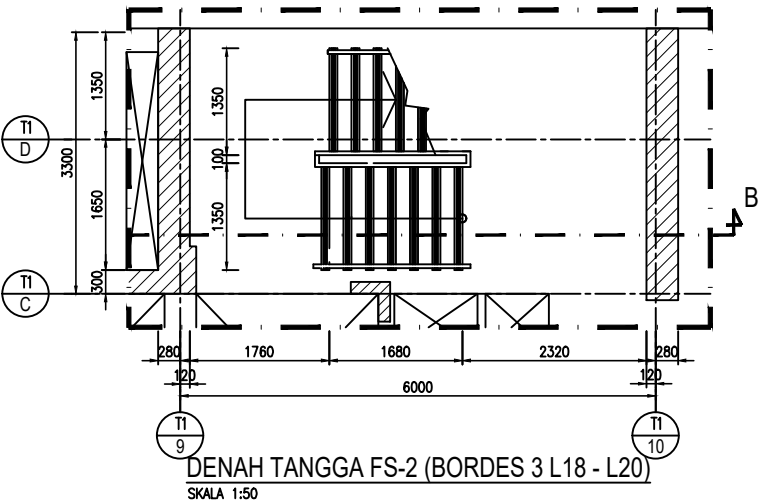
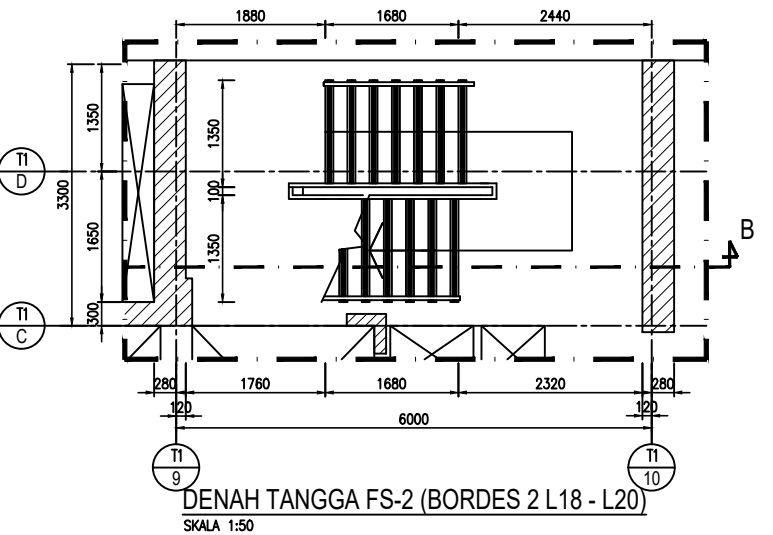
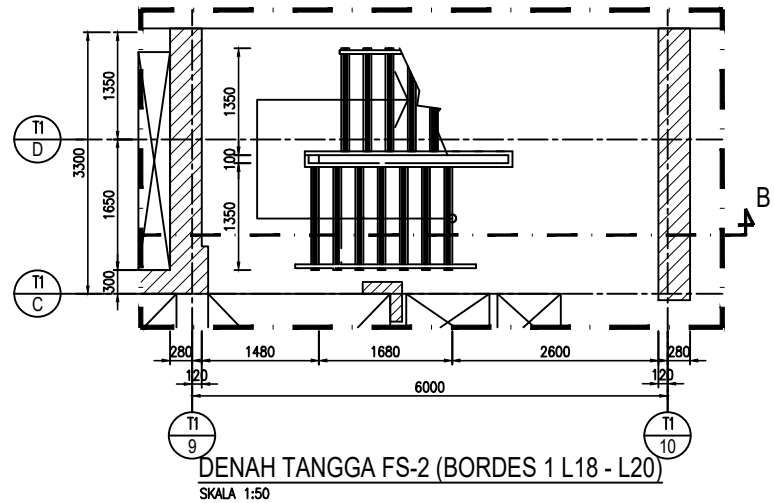
S-T-05

PROJECT CODE :

FILE NUMBER:

FOR TENDER

NOTASI	ELEVASI	NOTASI	ELEVASI	NOTASI	ELEVASI	NOTASI	ELEVASI	NOTASI	ELEVASI
LEVEL 5	+20.50	LEVEL 11	+47.50	LEVEL 17	+74.50	BORDES L4	+18.16	BORDES L10	+45.16
LEVEL 6	+25.00	LEVEL 12	+52.00	LEVEL 18	+79.00	BORDES L5	+22.66	BORDES L11	+49.66
LEVEL 7	+29.50	LEVEL 13	+56.50	LEVEL 19	+84.00	BORDES L6	+27.16	BORDES L12	+54.16
LEVEL 8	+34.00	LEVEL 14	+61.00	LEVEL 20	+89.00	BORDES L7	+31.66	BORDES L13	+58.66
LEVEL 9	+38.50	LEVEL 15	+65.50			BORDES L8	+36.16	BORDES L14	+63.16
LEVEL 10	+43.00	LEVEL 16	+70.00			BORDES L9	+40.66	BORDES L15	+67.66
								BORDES L16	+72.16
								BORDES L17	+76.66
								BORDES 1 L18	+80.25
								BORDES 2 L18	+81.50
								BORDES 3 L18	+82.75
								BORDES 1 L19	+85.25
								BORDES 2 L19	+86.50
								BORDES 3 L19	+87.75
								BORDES 1 L20	+90.25
								BORDES 2 L20	+91.50
								BORDES 3 L20	+92.75



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3. MUTU BETON :
TANG PANCANG Ø 300X300, 450X450 : f_c = 45 MPa
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : f_c = 35 MPa
- PODIUM :
KOLOM : f_c = 35 MPa
BALOK, PELAT LANTAI : f_c = 30 MPa
- TOWER :
KOLOM, SHEARWALL, LINK BEAM :
- GWT - L9 : f_c = 45 MPa
- L10 - ATAP LIFT : f_c = 40 MPa
BALOK, PELAT :
- GWT - L9 : f_c = 35 MPa
- L10 - ATAP LIFT : f_c = 30 MPa
4. MUTU TULANGAN :
D = 10, BJTS 420 (fy=420 MPa)
D > 12, BJTS 420 (fy=420 MPa)
M (WIREMESH), BJTS 520 (fy=520 MPa)
5. MUTU BAJA : BJ 37 / SS 41 / Fe 360
6. MUTU LAS : E-70xx
7. MUTU BAUT : HTB A 325
8. FFL GF ±0.00 = +18.00 (KONTUR)
- AREA BASAH

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No.	REVISIONS	DATE

KEY PLAN :

PROJECT TITLE :
UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :
blueantz
Sulawesi Park, Office Block C No.28 A, KAL. Mera Mera (Koridor) Jalan Puncak 10220
Phone : (081-25) 5704700 Fax : (081-25) 5704700 E-mail : info@blueantz.com
JAWARA

STRUCTURE CONSULTANT :
KETIRA ENGINEERING CONSULTANTS
Ketira Engineering Consultants
Ketira Engineering Consultants
Ketira Engineering Consultants

MECHANICAL & ELECTRICAL CONSULTANT :
PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01 - J. Pahlawan Senja, Serpong Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5376217
Email : samasta.ama@samastaremap.com Website : www.samastaremap.com

QUANTITY SURVEYORS :

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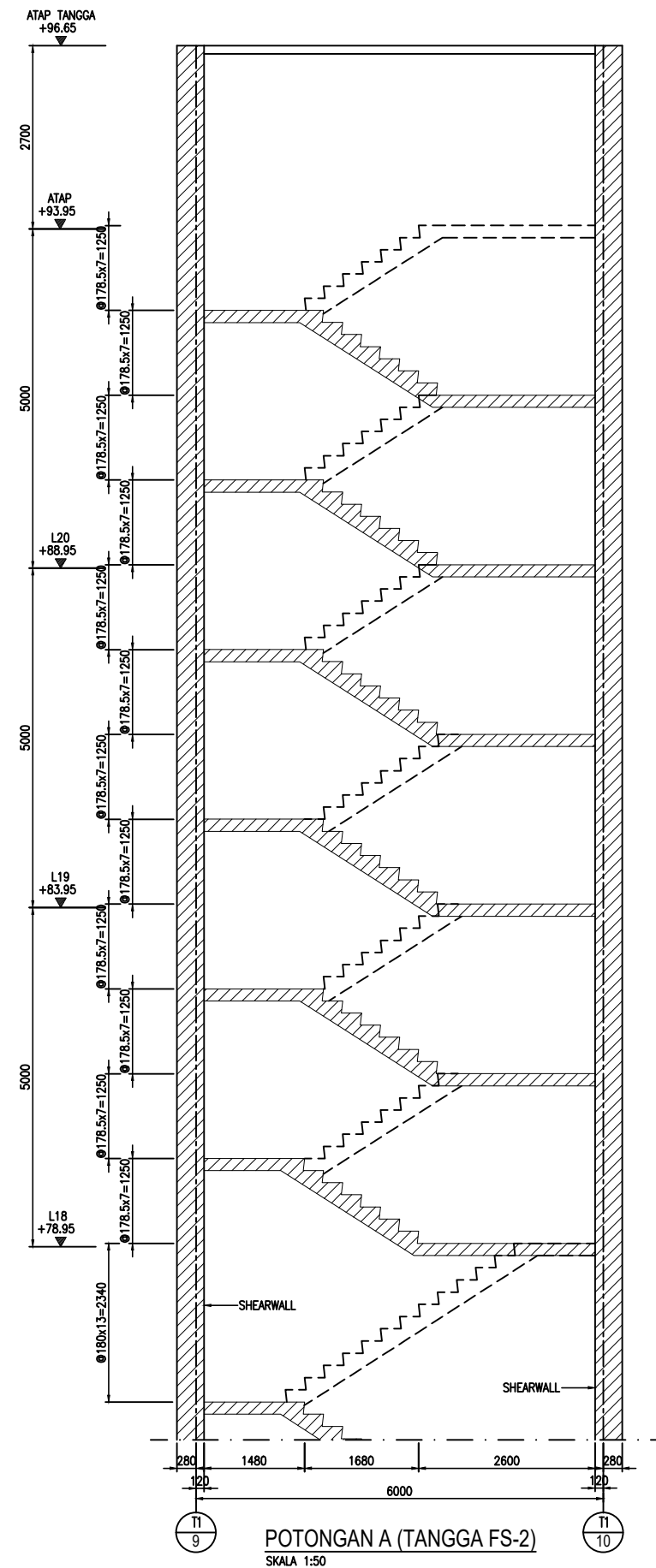
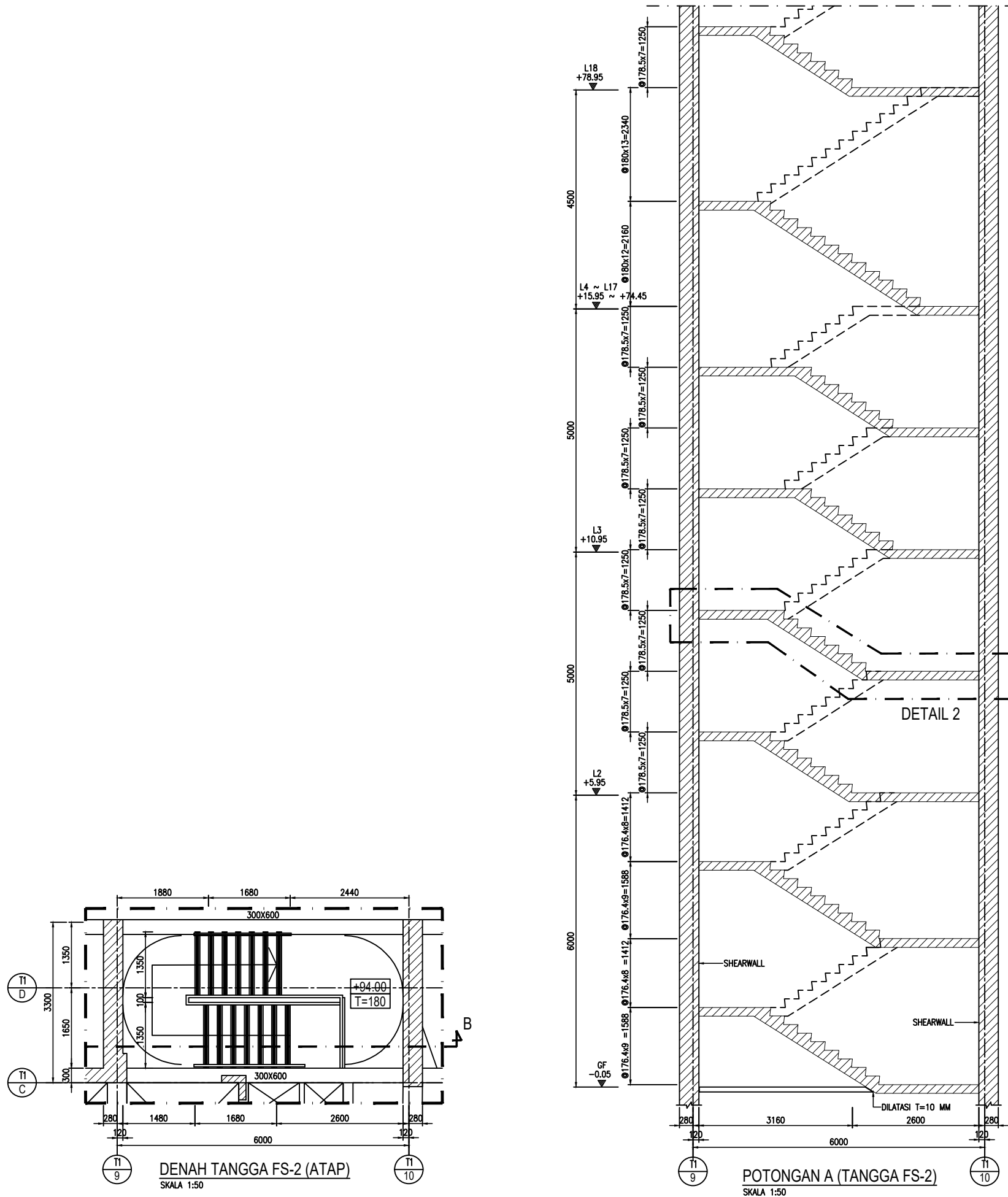
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BALOK, PELAT LANTAI : f_c = 30 MPa
TOWER :
KOLOM, SHEARWALL, LINK BEAM :
- GWT - L9 : f_c = 45 MPa
- L10 - ATAP LIFT : f_c = 40 MPa
BALOK, PELAT :
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No.	REVISIONS	DATE

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PROJECT TITLE :

UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :

blue antz

Sulawesi Park, Office Block C No.18 & KAL. Maw Mawer No.20 Jember Pabel 10220
Phone : (031-2) 5194219 Fax : (031-2) 5194220 E-mail : info@blue-antz.com
INDONESIA

STRUCTURE CONSULTANT :

KETIRA ENGINEERING CONSULTANTS

100000000 (Building System) & Linc
Jember 10000 INDONESIA

MECHANICAL & ELECTRICAL CONSULTANT :

PT. SAMASTA REKAYASA TEKNIK

Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01 - J. Pahlawan Setra, Seping Ulu
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5332117
Email : samasta.ama@samastarep.com Website : www.samastarep.com

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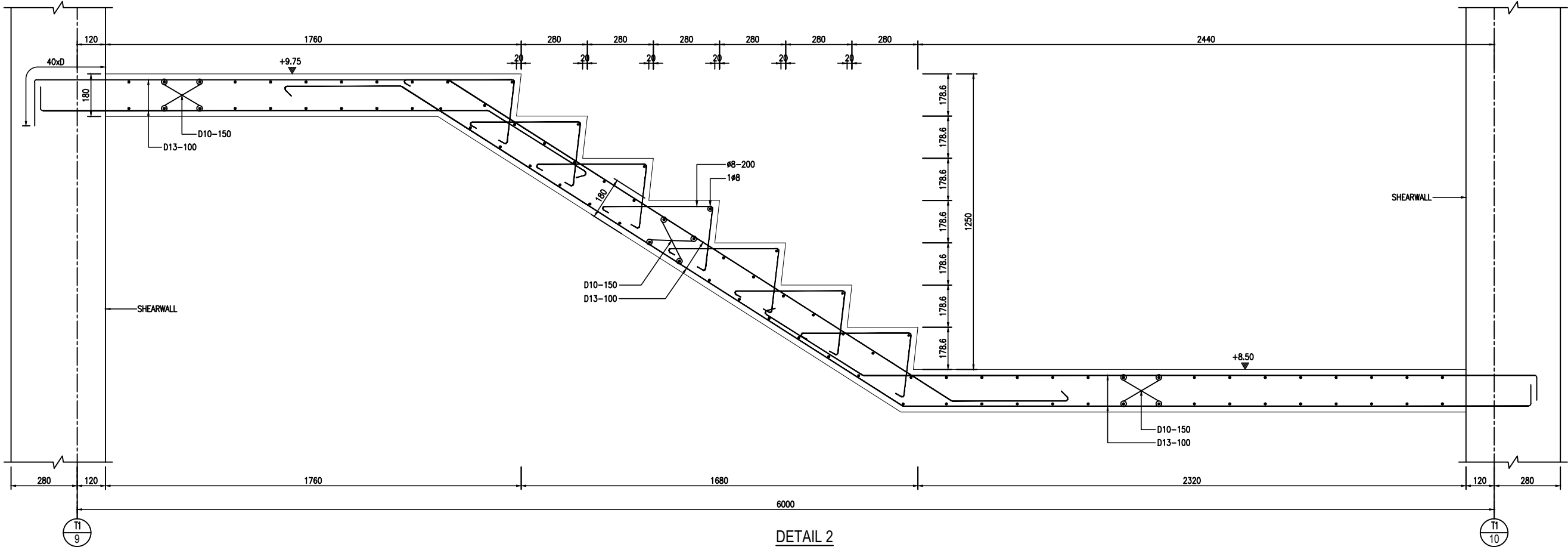
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DETAIL 2
SKALA 1:10

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4. MUTU TULANGAN : D = 10, BJTS 420 (fy=420 MPa) D > 12, BJTS 420 (fy=420 MPa) M (WIREMESH), BJTS 520 (fy=520 MPa)		
5. MUTU BAJA : BJ 37 / SS 41 / Fe 360		
6. MUTU LAS : E-70xx		
7. MUTU BAUT : HTB A 325		
8. FTL GF ±0.00 = +18.00 (KONTUR)		
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UrbnX APARTMENT		
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DESIGN ARCHITECT :		
blue antz		
Sulthan Park, Office Block C No.28 J. KAL. Maw Mananor No.28 Jember Pusat 10220 Phone : (03-25) 5794728 Fax : (03-25) 5794725 E-mail : info@blue-antz.com INDONESIA		
STRUCTURE CONSULTANT :		
KETIRA ENGINEERING CONSULTANTS		
MECHANICAL & ELECTRICAL CONSULTANT :		
PT. SAMASTA REKAYASA TEKNIK		
Mechanical, Electrical & Plumbing Consultant Ruko Golden Boulevard, Blok V No. 01 J. Pahlawan Selty, Serpong Utara Tangerang Selatan, Tangerang, Banten 15310 Phone : (021) 5332117 Email : samasta.umar@samastarekayasa.com Website : www.samastarekayasa.com		
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- KOLOM : f'c = 35 MPa
- BALOK, PELAT LANTAI : f'c = 30 MPa

TOWER :

- KOLOM, SHEARWALL, LINK BEAM :
 - GWNT - L9 : f'c = 45 MPa
 - L10 - ATAP LIFT : f'c = 40 MPa
- BALOK, PELAT :
 - GWNT - L9 : f'c = 35 MPa
 - L10 - ATAP LIFT : f'c = 30 MPa

- 4. MUTU TULANGAN :
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- D > 12, BJTS 420 (fy=420 MPa)
- W (WIREMESH), BJTS 520 (fy=520 MPa)
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OWNER :

DESIGN ARCHITECT :
blueantz
Sullivan Park, Office Block C No.29 J. K.H. New Manager Kow.35 Jekaria Paoel 10220
Phone : (62-21) 57947918 Fax : (62-21) 57947520 E-mail : info@blue-antz.net

INDONESIA	AUSTRALIA	SINGAPORE
STRUCTURE CONSULTANT :  KETIRA ENGINEERING CONSULTANTS J. Tanah Abang V No. 58 - 58 A Telp. (3800000) & 4 Lines Jakarta 10180 INDONESIA		

MECHANICAL & ELECTRICAL CONSULTANT :
PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01, Jl. Pahlawan Sembu, Serpong Utara
Tangerang Selatan, Tangerang, Banten, 15310 Phone : (021) 5378217
Email : samasta.smr@samastamep.com Website : www.samastamep.com

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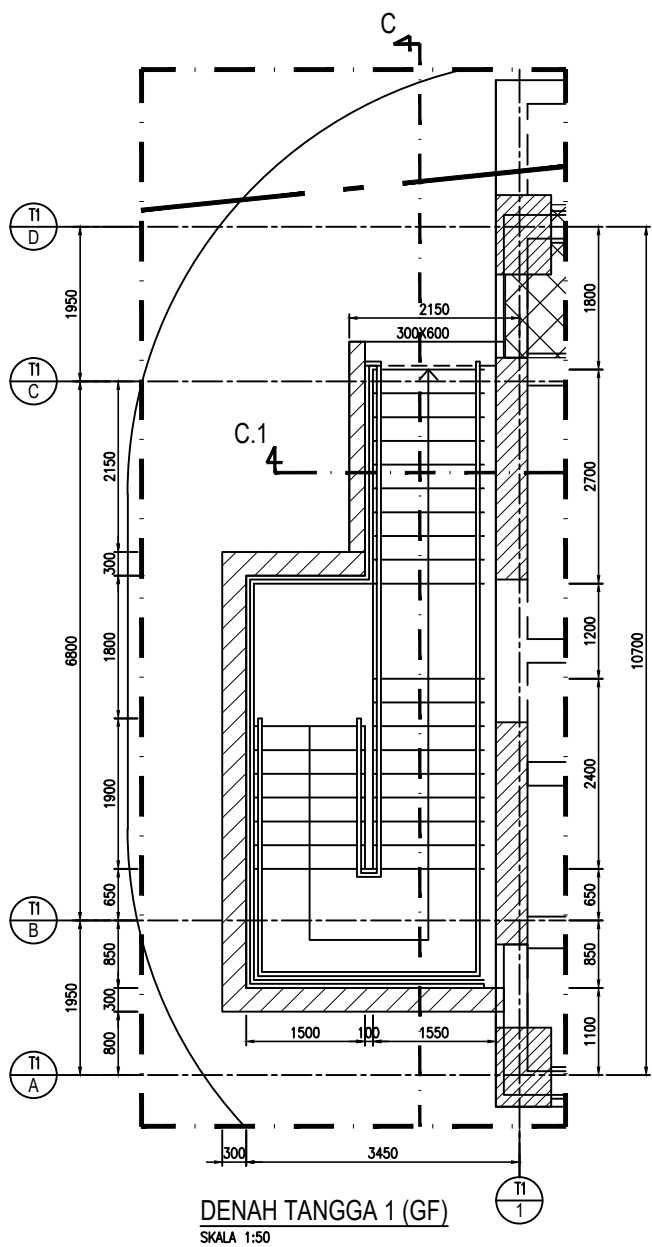
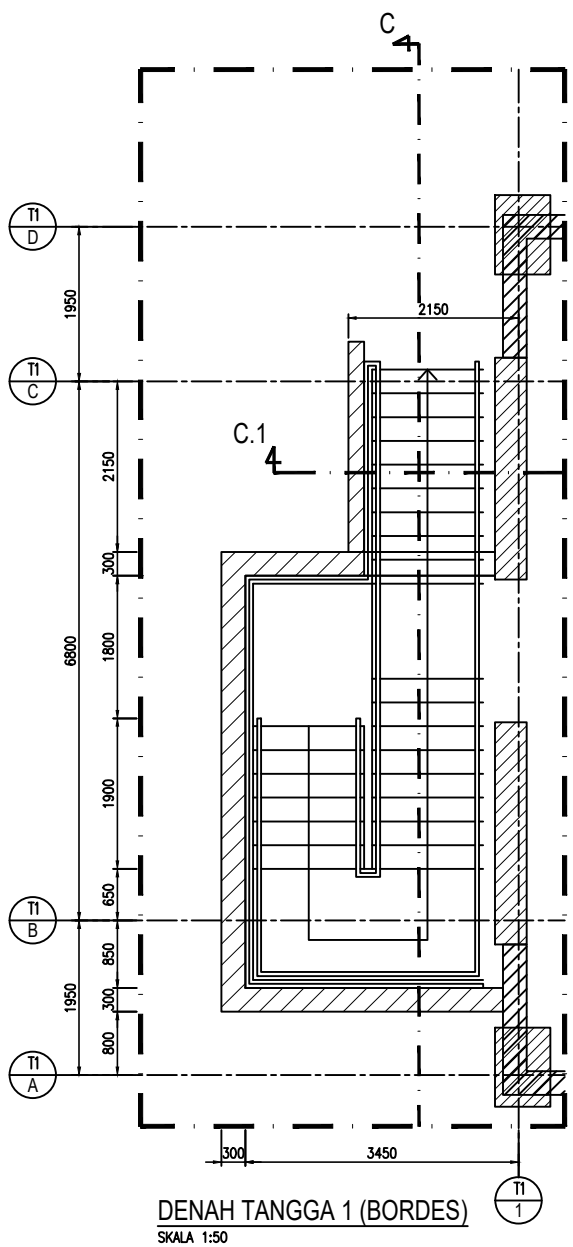
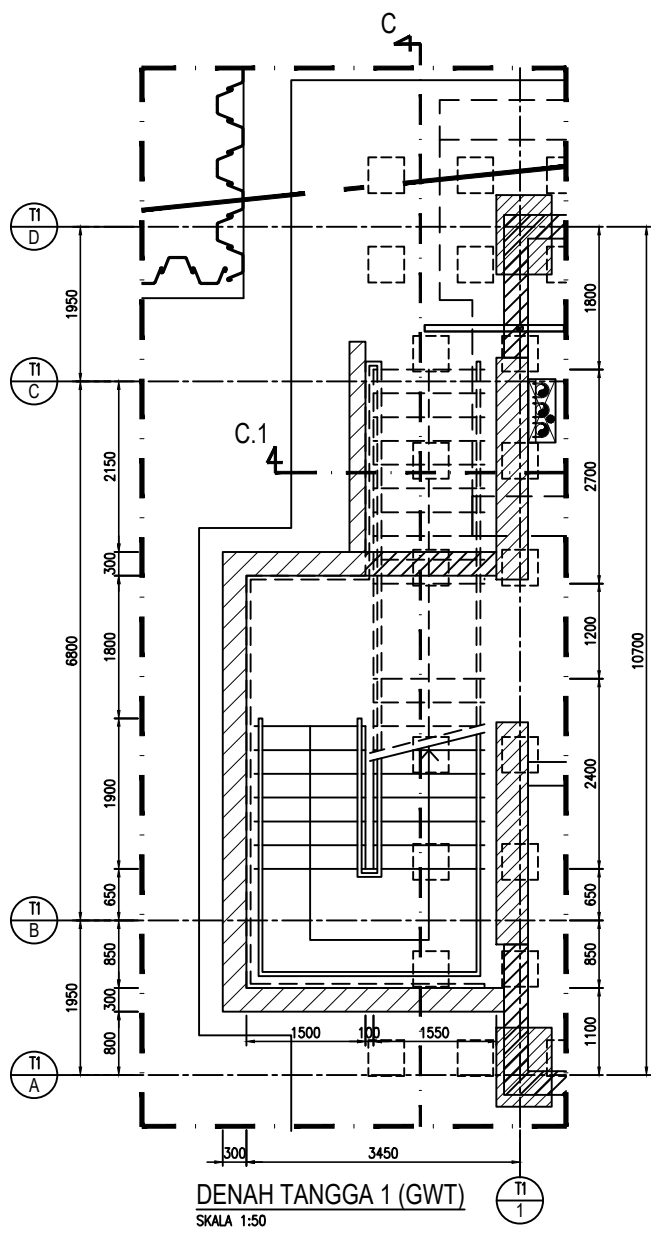
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Project Director	ANNIE RETIKA, MSc	DATE
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ISSUED FOR :	REVISION :	DRAWING NUMBER :
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DATE :	PROJECT CODE :	FILE NUMBER:
19 MARET 2025		



Jeetika,

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STANDARD DETAIL UNTUK PEKERJAAN STRUKTUR

UMUM

- ### 1. RUANG LINGKUP
- (1). DOKUMEN INI HARUS DIGUNAKAN SEBAGAI STANDARD DETAIL UNTUK PEKERJAAN PENULANGAN KONSTRUKSI BETON KECUALI APABILA DINYATAKAN LAIN PADA GAMBAR PERENCANAAN DAN INSTRUKSI DIREKSI PENGAWAS.
 - (2). APABILA ADA PERBEDAAN ANTARA DOKUMEN INI DENGAN GAMBAR PERENCANAAN MAKA SYARAT YANG PALING BERAT YANG MENENTUKAN.
 - (3). UKURAN GAMBAR TIDAK BOLEH DI SKALA, TETAPI HARUS BERDASARKAN INFORMASI TERTULIS YANG TERCANTUM DALAM GAMBAR.
 - (4). GAMBAR KERJA (SHOPDRAWING) HARUS DIBUAT UNTUK MENKOORDINASIKAN GAMBAR STRUKTUR DENGAN GAMBAR ARSITEKTUR DAN MEP, BILA ADA KETIDAK SESUAIAN HARUS LAPORKAN KEPADA DIREKSI PENGAWAS.
 - (5). PERBEDAAN ELEVASI DAN DETAIL PENURUNAN HARUS MENGACU PADA GAMBAR ARSITEKTUR.
 - (6). LUBANG PADA SLAB YANG LEBIH KECIL DARI 300X300 mm TIDAK DICANTUMKAN DALAM GAMBAR STRUKTUR.
 - (7). HAL – HAL YANG BERHUBUNGAN DENGAN METODE PELAKSANAAN MENJADI TANGGUNG JAWAB KONTRAKTOR SEPENUHNYA.

2.A TEBAL PENUTUP BETON

- STRUKTUR YANG LANGSUNG BERHUBUNGAN DENGAN TANAH SECARA TETAP.

a. SELIMUT BAWAH PELAT PONDASI PILE CAP	75 mm
---	-------
- STRUKTUR YANG LANGSUNG BERHUBUNGAN DENGAN CUACA DAN UDARA LUAR.

a. TULANGAN D19 HINGGA D57	50 mm
b. TULANGAN D16, KAWAT Ø13 ATAU D13 DAN YANG LEBIH KECIL	40 mm
- STRUKTUR DIDALAM RUANGAN (TERLINDUNG DARI CUACA LUAR) DAN TIDAK KONTAK DENGAN TANAH.

3.1. PELAT, DINDING DAN BALOK USUK :	
TULANGAN D44 DAN D57	40 mm
TULANGAN D36 DAN YANG LEBIH KECIL	20 mm
3.2. BALOK, KOLOM, PEDESTAL, DAN BATANG TARIK :	
TULANGAN UTAMA, SENKANG, SENKANG IKAT, SPIRAL, DAN SENKANG PENGEKANG	40 mm
- DALAM SEGALA HAL, TEBAL PENUTUP BETON TIDAK BOLEH KURANG DARI YANG DITENTUKAN DI BAWAH INI :
 - PADA BATANG TULANGAN ULIR : dp
 - PADA BERKAS TULANGAN : deDIMANA : dp = DIAMETER PENGENAL BATANG TULANGAN ULIR
de = DIAMETER EKIVALEN BERKAS TULANGAN

2.B NILAI SLUMP

- (1). NILAI SLUMP HARUS DIBUAT SESUAI SYARAT BERIKUT :

JENIS ELEMEN STRUKTUR	MAKSIMUM	MINIMUM
DINDING BASEMENT, PELAT PONDASI, PILE CAP, TIE BEAM, RAFT, PONDASI TELAPAK BERTULANG	12,5 cm	10 cm
PELAT, BALOK, KOLOM, DINDING GESER ATAU SHEARWALL (UMUM)	14,5 cm	10 cm
PONDASI TIANG	18 cm	16 cm

2.C MUTU BETON

TIANG PANCANG Ø 300X300, 450X450	: f'c = 45 MPa
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT	: f'c = 35 MPa
PODIUM :	
KOLOM	: f'c = 35 MPa
BALOK, PELAT LANTAI	: f'c = 30 MPa
TOWER :	
KOLOM, SHEARWALL, LINK BEAM :	
– GWT – L9	: f'c = 45 MPa
– L10 – ATAP LIFT	: f'c = 40 MPa
BALOK, PELAT :	
– GWT – L9	: f'c = 35 MPa
– L10 – ATAP LIFT	: f'c = 30 MPa

2.D MUTU BAJA TULANGAN

- * Ø < 12 : BJTP 280 (fy=280 MPa)
- * D=10, D>12 : BJTS 420 (fy=420 MPa)
- * M (WIREMESH) : U520 (fy= 520 MPa)

2.E. MUTU PROFIL BAJA : BJ 37/ SS 41 / Fe 360

2.F. MUTU BAUT

- * ASTM A–325 : DIAMETER ≥ 16mm
- * ASTM A–307 : DIAMETER < 16mm

2.G. MUTU LAS : AWS E –70xx

- * TEBAL MINIMUM UNTUK LAS SUDUT = 0.70 x TEBAL PELAT TERTIPIS YANG AKAN DISAMBUNG.
- * UNTUK MENGETAHUI MUTU DAN KEKUATAN LAS PADA MATERIAL BAJA HARUS DILAKUKAN TEST LAS DENGAN MENGGUNAKAN : ULTRASONIC/RADIOGRAPHIC, PARTIKEL MAGNETIC, LIQUID PENETRANT.

3. PEKERJAAN PEMOTONGAN DAN PEMBENGKOKAN

- (1). DETAIL PEKERJAAN DAN PEMASANGAN HARUS DISIAPKAN SEBAGAI GAMBAR KERJA SEBELUM PELAKSANAAN DAN HARUS DISETUJUI OLEH DIREKSI PENGAWAS.
- (2). KAIT HARUS DIBERIKAN PADA SETIAP PENGAKHIRAN TULANGAN POLOS.
- (3). KAIT PADA TULANGAN ULIR HANYA DIBUTUHKAN APABILA MEMENUHI KEADAAN SEBAGAI BERIKUT :
 - a). SENKANG.
 - b). TULANGAN BALOK DI ATAS 2 TUMPUAN.
 - c). TULANGAN ATAS DARI BALOK DAN PELAT KANTILEVER.
 - d). TULANGAN UTAMA PADA KOLOM YANG TIDAK MENERUS.
- (4). PEMBENGKOKAN TULANGAN
 - a). BATANG TULANGAN TIDAK BOLEH DIBENGKOKKAN ATAU DILURUSKAN DENGAN CARA YANG DAPAT MERUSAK TULANGAN TERSEBUT.
 - b). BATANG TULANGAN ULIR, SETELAH DIBENGKOKKAN DAN DILURUSKAN KEMBALI TIDAK BOLEH DIBENGKOKKAN LAGI DALAM JARAK 600 mm DARI BENGKOKAN TERSEBUT.
 - c). BATANG TULANGAN YANG TERTANAM SEBAGIAN DALAM BETON TIDAK BOLEH DIBENGKOKKAN ATAU DILURUSKAN DI LAPANGAN, KECUALI DISETUJUI OLEH PERENCANA.
 - d). MEMBENGKOKKAN DAN MELURUSKAN BATANG TULANGAN HARUS DILAKUKAN DALAM KEADAAN DINGIN, KECUALI PEMANASAN DIJINKAN OLEH PERENCANA.
 - e). APABILA PEMANASAN DIJINKAN, BATANG TULANGAN BAJA LUNAK DAPAT DIPANASKAN SAMPAI KELIHATAN MERAH PADAM TETAPI TIDAK BOLEH MENCAPAI SUHU LEBIH DARI 850° C.
 - f). BATANG TULANGAN DARI BAJA KERAS TIDAK BOLEH DIPANASKAN, KECUALI DIJINKAN OLEH PERENCANA.
 - g). BATANG TULANGAN YANG DIBENGKOKKAN DENGAN PEMANASAN TIDAK BOLEH DIDINGINKAN DENGAN JALAN DISIRAM DENGAN AIR.

TABEL 2
DETAIL KAIT STANDARD UNTUK PENYALURAN BATANG ULIR
PADA KONDISI TARIK

SUDUT LENGKUNG	GAMBAR	DIAMETER PELENGKUNGAN (D)	PERPANJANGAN LURUS (L ext)
90°		D10 ~ D25 = 6db	12 db
		D29 ~ D36 = 8db	
		D43 ~ D57 = 10db	
180°		D10 ~ D25 = 6db	TERBESAR DARI 4 db DAN 65 mm
		D29 ~ D36 = 8db	
		D43 ~ D57 = 10db	

TABEL 3
PANJANG PENYALURAN TULANGAN TARIK DENGAN KAIT (Ldh)
(BATANG ULIR)

(a) MUTU BAJA TULANGAN : 420 MPa						
db (mm)	MUTU BETON f'c (MPa)					
	20	25	30	35	40	45
SEMUA DIAMETER	23 db	21 db	19 db	17 db	16 db	15 db

(b) MUTU BAJA TULANGAN : 520 MPa						
db (mm)	MUTU BETON f'c (MPa)					
	20	25	30	35	40	45
SEMUA DIAMETER	28 db	25 db	23 db	21 db	20 db	19 db

TABEL 4
DETAIL KAIT STANDARD UNTUK SENKANG, IKAT SENKANG, SENKANG PENGEKANG

SUDUT LENGKUNG	GAMBAR	DIAMETER PELENGKUNGAN (D)	PERPANJANGAN LURUS (L ext)
90°		D10 ~ D16 = 4db	TERBESAR DARI 6 db DAN 75 mm
		D19 ~ D25 = 6db	
135°		D10 ~ D16 = 4db	TERBESAR DARI 6 db DAN 75 mm
		D19 ~ D25 = 6db	
180°		D10 ~ D16 = 4db	TERBESAR DARI 4 db DAN 65 mm
		D19 ~ D25 = 6db	

4. PEKERJAAN PEMASANGAN TULANGAN

- (1). PADA SETIAP PERTEMUAN TULANGAN HARUS DIKAT DENGAN KAWAT BAJA DENGAN DIAMETER 0.9 mm.
- (2). UNTUK MENJAGA JARAK ANTARA TULANGAN, DIGUNAKAN PENOPANG TULANGAN (CAKAR AYAM) D10 DENGAN JARAK 500 mm P.K.P.
- (3). JARAK BERSIH ANTARA TULANGAN HARUS LEBIH BESAR DARI 3/4 KALI UKURAN AGREGAT KASAR DAN DALAM SEGALA HAL TIDAK BOLEH KURANG DARI NILAI-NILAI BERIKUT :
 - 25 mm : PADA PELAT
 - 30 mm : PADA BALOK DAN KOLOM BERSENGKANG
 - 50 mm : PADA DINDING DAN KOLOM BERLILIT SPIRAL
- (4). JARAK MAKSIMUM ANTARA BATANG–BATANG TULANGAN P.K.P DITE–TAPKAN S.B.B :
 - a). PADA PELAT LANTAI PADA BAGIAN MOMEN MAKSIMUM, JARAK P.K.P ANTARA BATANG TULANGAN TIDAK BOLEH LEBIH DARI 200 mm ATAU 2 X TEBAL PELAT. JARAK P.K.P ANTARA TULANGAN PEMBAGI YANG DIPASANG TEGAK LURUS TULANGAN POKOK, TIDAK BOLEH LEBIH DARI 250 mm.
 - b). PADA BALOK–BALOK PADA BAGIAN MOMEN MAKSIMUM, JARAK P.K.P ANTARA BATANG TULANGAN TIDAK BOLEH DARI 150 mm, JARAK P.K.P ANTARA BATANG–BATANG TULANGAN SAMPING PADA BALOK YANG LEBIH TINGGI DARI 900 mm, TIDAK BOLEH LEBIH DARI LEBAR BADAN–BADAN BALOK ATAU 300 mm.
 - c). PADA DINDING JARAK P.K.P ANTARA TULANGAN VERTIKAL TIDAK BOLEH LEBIH DARI 3X TEBAL DINDING ATAU 400 mm, DAN JARAK P.K.P ANTARA BATANG HORIZONTAL TIDAK LEBIH DARI 1,5X TEBAL DINDING ATAU 400 mm.

CATATAN : *), P.K.P = POROS KE POROS

5. PANJANG PENYALURAN

- (1). PANJANG PENYALURAN HARUS SESUAI DENGAN HARGA YANG TERCANTUM DALAM TABEL 5 (PANJANG PENYALURAN).
- (2). UNTUK TULANGAN YANG DITEMPATKAN LEBIH DARI 300 mm DARI PERMUKAAN BAWAH BETON, PANJANG PENYALURAN YANG DIGUNAKAN = 1.3 Ld (UNTUK KOLOM & DINDING)

TABEL 5 PANJANG PENYALURAN BATANG & KAWAT ULIR

5.1 TULANGAN TARIK (Ld)

(a) MUTU BAJA TULANGAN : 420 MPa

db (mm)	MUTU BETON f'c (MPa)					
	20	25	30	35	40	45
10 ~ 19	45 db	40 db	37 db	34 db	32 db	30 db
22 ~ 36	56 db	50 db	46 db	42 db	40 db	37 db

(b) MUTU BAJA TULANGAN : 520 MPa

db (mm)	MUTU BETON f'c (MPa)					
	20	25	30	35	40	45
10 ~ 19	56 db	50 db	46 db	42 db	40 db	37 db
22 ~ 36	69 db	62 db	56 db	52 db	49 db	46 db

CATATAN :
Ld = Panjang Penyaluran Tarik
db = diameter tulangan (mm)

5.2 TULANGAN TEKAN (Ldc)

(a) MUTU BAJA TULANGAN : 420 MPa

db (mm)	MUTU BETON f'c (MPa)					
	20	25	30	35	40	45
SEMUA DIAMETER	23 db	21 db	19 db	18 db	18 db	18 db

(b) MUTU BAJA TULANGAN : 520 MPa

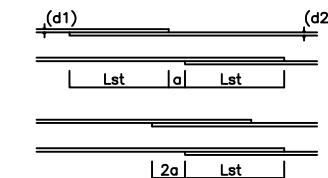
db (mm)	MUTU BETON f'c (MPa)					
	20	25	30	35	40	45
SEMUA DIAMETER	28 db	25 db	23 db	23 db	23 db	23 db

CATATAN :
Ldc = Panjang Penyaluran Tekan
db = diameter tulangan (mm)

*) SEMUA TULANGAN BALOK INDIK TERGOLONG TULANGAN TARIK

6. PANJANG LEWATAN

- (1). SAMBUNGAN TULANGAN TIDAK BOLEH DITEMPATKAN PADA DAERAH TEGANGAN MAKSIMUM. SAMBUNGAN TULANGAN ATAS HARUS DITEMPATKAN DI DAERAH LAPANGAN (TENGAH BENTANG) DAN SAMBUNGAN TULANGAN BAWAH DITEMPATKAN DI DAERAH TUMPUAN.
- (2). PANJANG LEWATAN HARUS SESUAI DENGAN HARGA YANG TERCANTUM DALAM TABEL 6 (PANJANG LEWATAN).
- (3). SAMBUNGAN LEWATAN HANYA DAPAT DIPAKAI PADA BATANG DENGAN DIAMETER < 36 mm.
- (4). BILA SAMBUNGAN LEWATAN DIPERLUKAN UNTUK BATANG – BATANG DENGAN DIAMETER YANG BERBEDA, PANJANG LEWATAN HARUS DIDASARKAN PADA DIAMETER YANG LEBIH BESAR.
- (5). UNTUK TULANGAN YANG DITEMPATKAN LEBIH DARI 300 mm DARI PERMUKAAN BAWAH BETON, PANJANG LEWATAN YANG DIGUNAKAN = 1.3 Lst



CATATAN :
UNTUK KASUS d1>d2, MAKA :
– PANJANG Lst DIDASARKAN ATAS DIAMETER TULANGAN d1
– a > 2.5 d1

TABEL 6 PANJANG LEWATAN BATANG ULIR

6.1 TULANGAN TARIK (Lst)

(a) MUTU BAJA TULANGAN : 420 MPa							
(db mm)	MUTU BETON f'c (MPa)						
	20	25	30	35	40	45	
10 ~ 19	56 db	52 db	49 db	45 db	42 db	39 db	
22 ~ 36	73 db	65 db	60 db	55 db	52 db	49 db	

(b) MUTU BAJA TULANGAN : 520 MPa							
(db mm)	MUTU BETON f'c (MPa)						
	20	25	30	35	40	45	
	10 ~ 19	73 db	65 db	60 db	55 db	52 db	49 db
22 ~ 36	90 db	81 db	73 db	68 db	64 db	60 db	

6.2 TULANGAN TEKAN (Lsc)

(a) MUTU BAJA TULANGAN : 420 MPa						
db (mm)	MUTU BETON f'c (MPa)					
	20	25	30	35	40	45
SEMUA DIAMETER	40 db	30 db	30 db	30 db	30 db	30 db

(b) MUTU BAJA TULANGAN : 520 MPa

db (mm)	MUTU BETON f'c (MPa)					
	20	25	30	35	40	45
SEMUA DIAMETER	59 db	44 db	44 db	44 db	44 db	44 db

CATATAN :
Lst = Panjang Lewatan Tarik
Lsc = Panjang Lewatan Tekan
db = diameter tulangan (mm)

7. PANJANG PENYALURAN DAN PANJANG LEWATAN UNTUK JARING KAWAT BAJA (WIREMESH)

- (1). PANJANG PENYALURAN (TULANGAN TARIK)
 - (a) DENGAN KAIT 90°
 - (b) TANPA KAIT

- (2). PANJANG LEWATAN (TULANGAN TARIK)

Ld = PANJANG PENYALURAN TARIK

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NOTES
All construction drawings used on site to comply with approved permit drawings.
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1. SEMUA UKURAN DALAM MILIMETER.
2. SEMUA ELEVASI LANTAI DALAM METER.
3. MUTU BETON :
TIANG PANCANG Ø 300X300, 450X450 : f'c = 45 MPa
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : f'c = 35 MPa
PODIUM :
KOLOM : f'c = 35 MPa
BALOK, PELAT LANTAI : f'c = 30 MPa
TOWER :
KOLOM, SHEARWALL, LINK BEAM :
– GWT – L9 : f'c = 45 MPa
– L10 – ATAP LIFT : f'c = 40 MPa
BALOK, PELAT :
– GWT – L9 : f'c = 35 MPa
– L10 – ATAP LIFT : f'c = 30 MPa
4. MUTU TULANGAN :
D = 10, BJTS 420 (fy=420 MPa)
D > 12, BJTS 420 (fy=420 MPa)
M (WIREMESH), BJTS 520 (fy=520 MPa)
5. MUTU BAJA : BJ 37 / SS 41 / Fe 360
6. MUTU LAS : E-70xx
7. MUTU BAUT : HTB A 325
8. FTL GFL ±0.00 = +18.00 (KONTUR)
AREA BASAH

ISSUED		
No.	DESCRIPTION	DATE
REVISION		
No.	REVISIONS	DATE
KEY PLAN :		

PROJECT TITLE :		
UrbnX APARTMENT		
OWNER :		
DESIGN ARCHITECT :		
blueantz		
Sulawesi Park, Office Block : No.28 & 29 A, K.A. New Mangrove (Kor.28 Jakarta Pusat 10220 Phone : (62-21) 57947219 Fax : (62-21) 57947220 E-mail : info@blueantz.com blueantz.com		
STRUCTURE CONSULTANT :		
KETIRA ENGINEERING CONSULTANTS		
MECHANICAL & ELECTRICAL CONSULTANT :		
PT. SAMASTA REKAYASA TEKNIK Mechanical, Electrical & Plumbing Consultant Ruko Golden Boulevard, Blok V No. 01 J. Pahlawan Setiab, Setiabudi Utara Tanjung Pagar, Tangerang, Banten 15219 Phone : (021) 5376217 Email : samasta.ura@samastareka.com Website : www.samastareka.com		
QUANTITY SURVEYORS :		
DESIGN INTERIOR		
LANDSCAPE CONSULTANT :		

DRAWING TITLE		
STANDARD DRAWING		
Drawn By		DATE
Job Captain		DATE
Project Architect	–	DATE
Project Manager	–	DATE
Project Director	ANNIE RETIKA, MSc	DATE
OWNER APPROVAL		DATE
SCALE	NTS	
ISSUED FOR :	REVISION :	DRAWING NUMBER :
TENDER	0	SD-01
DATE :	PROJECT CODE :	FILE NUMBER:
19 MARET 2025	.	

STANDARD DETAIL UNTUK PEKERJAAN STRUKTUR

STANDARD PERSYARATAN BATANG TULANGAN

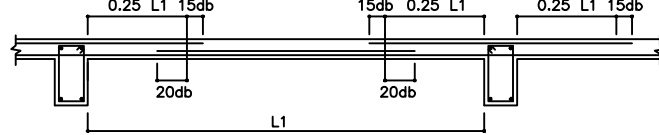
1. PELAT LANTAI

1. UMUM

- SELIMUT BETON HARUS SESUAI DENGAN TABEL 1. UNTUK MENDAPATKAN KETEBALAN SELIMUT BETON YANG TEPAT, HARUS DIPASANG PENDUKUNG TULANGAN (CAKAR AYAM) YANG KOKOH (GUNAKAN TULANGAN MINIMAL D10 @ 500 mm P.K.P).
- SAMBUNGAN TULANGAN TIDAK BOLEH DITEMPATKAN PADA DAERAH TEGANGAN MAKSIMUM. SAMBUNGAN TULANGAN ATAS HARUS DITEMPATKAN DI DAERAH LAPANGAN (TENGAH BENTANG) DAN SAMBUNGAN TULANGAN BAWAH DITEMPATKAN DI DAERAH TUMPUAN.
- PADA PELAT ATAP (YANG BERHUBUNGAN DENGAN UDARA LUAR) HARUS DIPASANG TULANGAN SUSUT. BILA TIDAK TERCANTUM DALAM GAMBAR, PASANG TULANGAN SUSUT D10 mm @ 200 mm (TULANGAN ATAS DUA ARAH).
- UNTUK SEMUA SUDUT PANEL PELAT HARUS DIPASANG TULANGAN PERKUATAN TAMBAHAN SEBANYAK 4 BATANG D10 DENGAN PANJANG 1000 mm ARAH DIAGONAL DAN DIJANGKARKAN PADA KOLOM DAN BALOK.

2. PEMASANGAN TULANGAN

(a). PADA ARAH BENTANG PENDEK (L1)

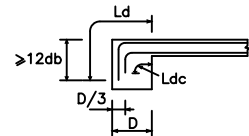


(b). PADA ARAH BENTANG PANJANG (L2)

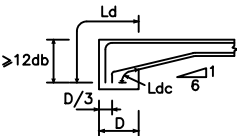


3. PANJANG PENYALURAN

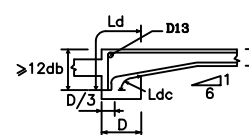
(a). KASUS BIASA



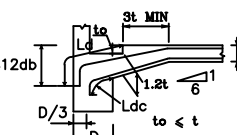
(b). PELAT DENGAN VOUTE (<1/6)



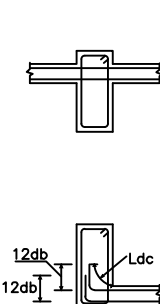
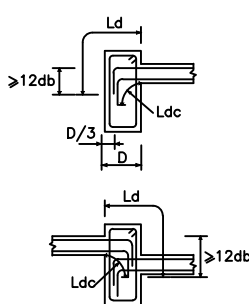
(c). BILA ADA PERBEDAAN TINGGI



(d). BILA TERDAPAT SELOKAN PADA PELAT



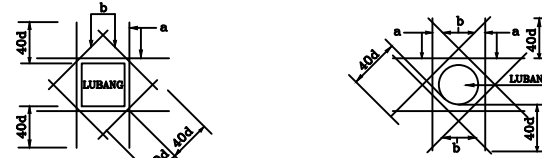
(e). BILA PELAT MENUMPU PADA SISI BALOK



CATATAN : Ld = PANJANG PENYALURAN TULANGAN TARIK
Ldc = PANJANG PENYALURAN TULANGAN TEKAN

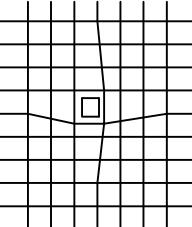
4. TULANGAN TAMBAHAN UNTUK LUBANG

- UNTUK PELAT BERLUBANG DENGAN LUAS LUBANG MAX. 0.30 m2 DENGAN PANJANG MAX. 600 mm (SISI PANJANG)



a : 2-D13 MIN ATAU SAMA DENGAN JUMLAH DAN DIAMETER TULANGAN PELAT YANG TERPOTONG
b : 1-D13 MIN ATAU SAMA DENGAN DIAMETER TULANGAN PELAT

- UNTUK LUBANG KECIL (< 300 mm X 300 mm)

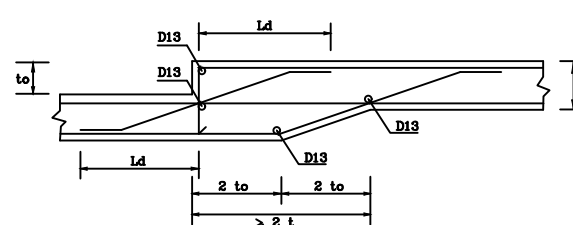


CATATAN : TULANGAN HARUS DIBENGKOKKAN SEPERTI TERCANTUM DALAM GAMBAR

- BILA DIPASANG KOTAK (JUNCTION BOX) PADA PELAT, KOTAK HARUS DIPASANG SEBELUM PEMASANGAN TULANGAN DAN TIDAK BOLEH MENGANGGU TULANGAN.
- BILA PEMOTONGAN TULANGAN TIDAK DAPAT DIHINDARKAN PADA PEMASANGAN KOTAK (JUNCTION BOX), MAKA TULANGAN TAMBAHAN DENGAN LUAS YANG SAMA ATAU LEBIH BESAR DARI TULANGAN YANG TERPOTONG HARUS DITAMBAHKAN PADA SISI - SISI KOTAK DAN HARUS DENGAN PERSETUJUAN DIREKSI PENGAWAS.

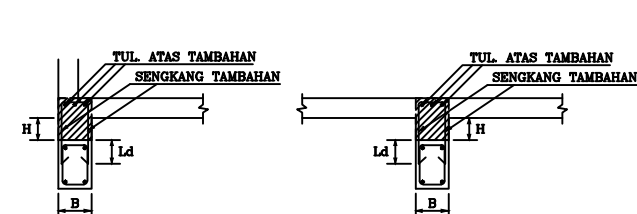
5. TULANGAN UNTUK KONDISI KHUSUS

- BILA TERDAPAT PERBEDAAN ELEVASI



CATATAN : APABILA to > t PENULANGAN HARUS DISETUJUI PERENCANA.

- BILA TERDAPAT PENAMBAHAN TINGGI PADA BALOK

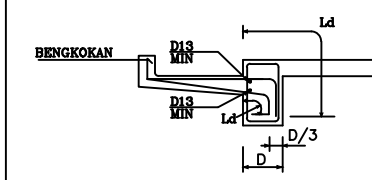


UNTUK H ≤ 600 mm

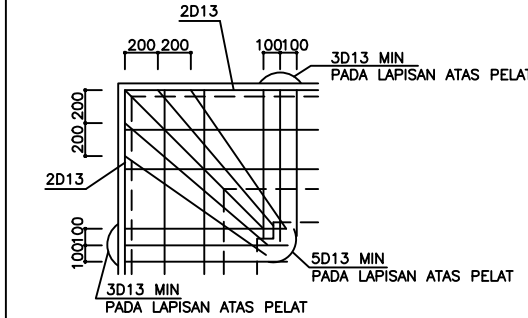
B (mm)	TULANGAN ATAS TAMBAHAN	SENGKANG TAMBAHAN
B ≤ 300	2 D 16	□ D10-200
300 < B < 500	3 D 19	□ D10-200
B > 500	4 D 19	□ D10-200

6. TULANGAN UNTUK PELAT KANTILEVER

- KONDISI BILA TERDAPAT PERBEDAAN KETINGGIAN PELAT KIRI DAN KANAN BALOK

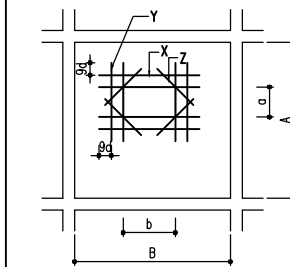


- TULANGAN TAMBAHAN PADA SUDUT



CATATAN : DIAMETER TULANGAN MINIMUM SAMA DENGAN TULANGAN POKOK YANG TERBESAR DARI PELAT KANTILEVER

7. STANDARD OPENING SHAFT >0.6M²



- BILA A & B < 1000mm
 - X = LUAS TULANGAN ARAH X YANG TERPUTUS DIKALI 1,3
 - Y = LUAS TULANGAN ARAH Y YANG TERPUTUS DIKALI 1,3
 - Z = 2D13
- BILA A & B > 1000mm ATAU BILA A & B > 0,3 X A & B
 - HARUS DIJALAN PEMALOKAN BT (HARAP DIINFORMASIKAN KE PERENCANA)

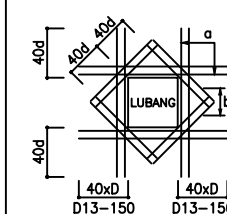
CATATAN :
X = TULANGAN EXTRA ARAH X
Y = TULANGAN EXTRA ARAH Y
Z = TULANGAN EXTRA DI SUDUT VOID

PEMALOKAN BT MENGIKUTI STANDARD BERIKUT :

- BILA BENTANG A/B < 2000mm
 - 2D13
 - 2D13
 - D10-150
- BILA BENTANG A/B 2000mm ≤ A/B < 4000
 - 2D16 2D16 2D16
 - B(150X300) D10-100/200
 - 2D16 3D16 2D16
- BILA BENTANG A/B 4000mm ≤ A/B < 6000
 - 3D19 2D19 3D19
 - B(200X400) D10-100/200
 - 2D19 4D19 2D19
- BILA BENTANG A/B ≥ 6000
 - HARAP DIINFORMASIKAN KE PERENCANA DAN PENGAWAS

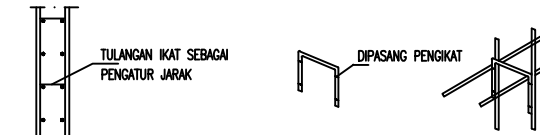
2. DINDING

- TULANGAN TAMBAHAN UNTUK LUBANG



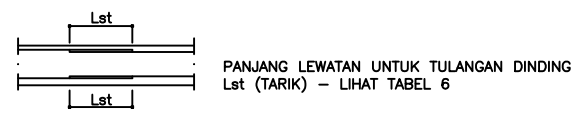
- BILA TIDAK DITUNJUKKAN DALAM GAMBAR UNTUK LUBANG MAX 300X300 mm
 - a = 2X2D16 MIN (ATAU SAMA DENGAN JUMLAH DAN DIAMETER TULANGAN DINDING YANG TERPOTONG)
 - b = 2X2D13 MIN (SAMA DENGAN DIAMETER TULANGAN UTAMA)
- UNTUK LUBANG YANG LEBIH BESAR DARI 300X300 mm, HARUS SESUAI DENGAN YANG TERCANTUM DALAM GAMBAR PERENCANAAN

- PENGATUR JARAK



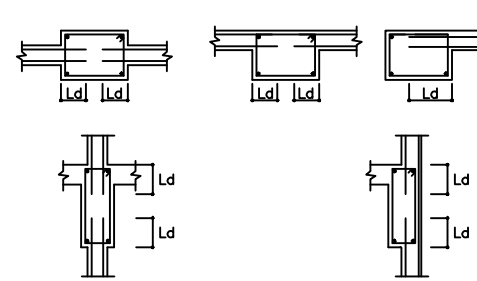
- PEMASANGAN TULANGAN, TEMPAT SAMBUNGAN LEWATAN DAN PANJANG PENJANGKARAN TULANGAN DINDING ATAS SAMA DENGAN KOLOM.

- PANJANG SAMBUNGAN LEWATAN



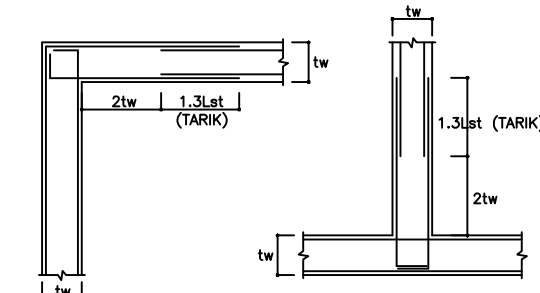
- PANJANG PENYALURAN

- PENJANGKARAN TULANGAN KE KOLOM

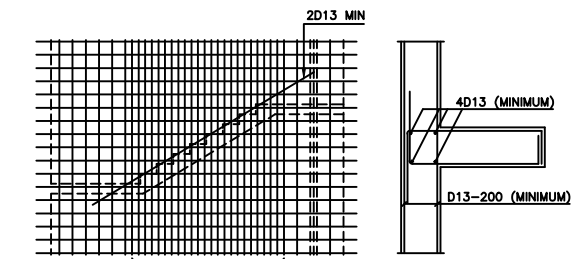


CATATAN : TULANGAN MENERUS BISA DIGUNAKAN

- SAMBUNGAN TULANGAN PADA PERTEMUAN UJUNG DINDING



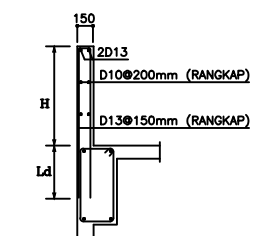
- TULANGAN DINDING UNTUK TANGGA KANTILEVER



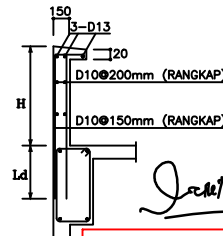
PADA AREA INI HARUS DIPASANG TULANGAN RANGKAP ARAH VERTIKAL MINIMUM D13 @ 200mm

- TULANGAN DINDING PARAPET (H ≤ 1200 mm)

- LANTAI PARKIR



- SELAIN LANTAI PARKIR



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NOTES
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- SEMUA UKURAN DALAM MILIMETER.
- SEMUA ELEVASI LANTAI DALAM METER.
- MUTU BETON :
TANG PANCANG 27 300X300, 450X450 : f_c = 45 MPa
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : f_c = 35 MPa

PODUM :
KOLOM : f_c = 35 MPa
BALOK, PELAT LANTAI : f_c = 30 MPa

TOWER :
KOLOM, SHEARWALL, LINK BEAM :

- GWT - L9 : f_c = 45 MPa
- L10 - ATAP LIFT : f_c = 40 MPa

BALOK, PELAT :
- GWT - L9 : f_c = 35 MPa
- L10 - ATAP LIFT : f_c = 30 MPa

- MUTU TULANGAN :
D = 10, BJTS 420 (fy=420 MPa)
D > 12, BJTS 420 (fy=420 MPa)
M (WIREMESH), BJTS 520 (fy=520 MPa)

- MUTU BAJA : BJ 37 / SS 41 / Fe 360

- MUTU LAS : E-70xx

- MUTU BAIT : HTB A 325

- FTL GF ±0.00 = +18.00 (KONTUR)

AREA BASAH

ISSUED

No.	DESCRIPTION	DATE

REVISION

No.	REVISIONS	DATE

KEY PLAN :

No.	REVISIONS	DATE

PROJECT TITLE :

UrbnX APARTMENT

OWNER :

--

DESIGN ARCHITECT :

blue antz

STRUCTURE CONSULTANT :

KETIRA ENGINEERING CONSULTANTS

MECHANICAL & ELECTRICAL CONSULTANT :

PT. SAMASTA REKAYASA TEKNIK

QUANTITY SURVEYORS :

--

DESIGN INTERIOR

--

LANDSCAPE CONSULTANT :

--

DRAWING TITLE

STANDARD DRAWING

Drawn By	DATE
Job Captain	DATE
Project Architect	DATE
Project Manager	DATE
Project Director	DATE
OWNER APPROVAL	DATE
SCALE	NTS
ISSUED FOR :	REVISION : 0
TENDER	SD-02
DATE : 28 FEBRUARI 2025	PROJECT CODE : FILE NUMBER :

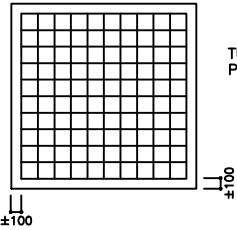
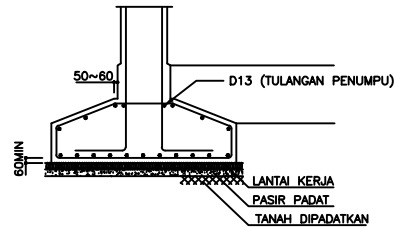
STANDARD DETAIL UNTUK PEKERJAAN STRUKTUR

STANDARD PERSYARATAN BATANG TULANGAN

3. PONDASI

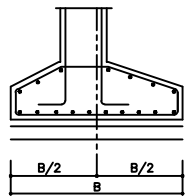
1. PONDASI SETEMPAT

(a). PONDASI SENTRIS (NORMAL)



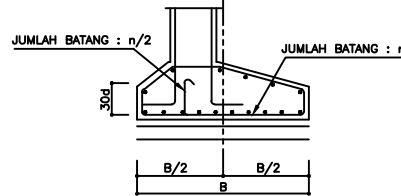
(b). PONDASI EKSENTRIS

a). BILA SUMBU PONDASI TELAPAK JATUH DIDALAM KOLOM.



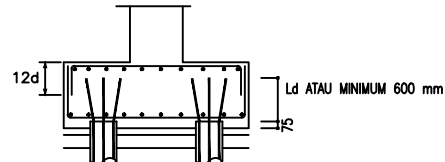
SAMA SERTI PONDASI SETEMPAT NORMAL.

b). BILA SUMBU PONDASI TELAPAK JATUH DILUAR KOLOM.



SEBAGIAN TULANGAN DARI SISI PANJANG HARUS DIBENGKOKKAN KEATAS DAN DI-SALURAN KEDALAM KOLOM ATAU BALOK PONDASI.

(c). PONDASI TIANG

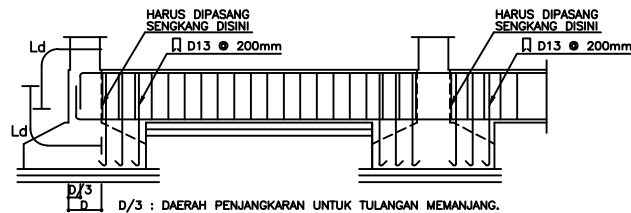


CATATAN :

1. PANJANG PENYALURAN HARUS SESUAI DENGAN TABEL 5.
2. BILA LETAK TIANG TIDAK TEPAT, HARUS DITAMBAHKAN TULANGAN SESUAI INSTRUKSI YANG DIBERIKAN OLEH PENGAWAS AHLI.

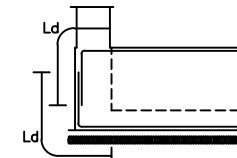
2. BALOK PONDASI DAN TIE BEAM

(a). PENJANGKARAN DAN TEMPAT SAMBUNGAN LEWATAN

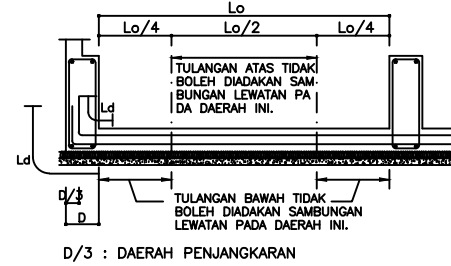


- CATATAN :
1. PANJANG PENYALURAN DAN PANJANG LEWATAN UNTUK PONDASI SETEMPAT HARUS SAMA DENGAN " Ld DAN Lst " SERTI YANG DISYARATKAN.
 2. TEBAL SELIMUT BETON HARUS SESUAI DENGAN POINT 2.A DARI "UMUM".
 3. HAL-HAL YANG LAIN HARUS SESUAI DENGAN PERSYARATAN UNUTK BALOK.

(b). UNTUK PONDASI RAKIT

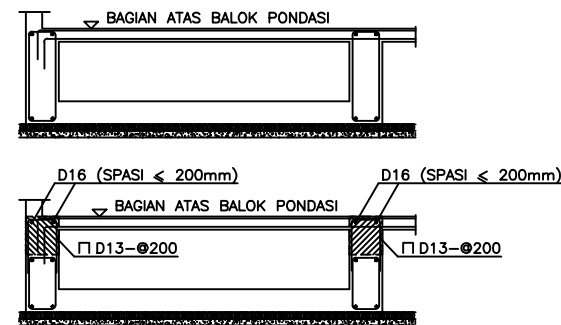


3. PELAT UNTUK PONDASI RAKIT



- CATATAN :
1. PENJANGKARAN DAN PANJANG LEWATAN UNTUK DASAR PONDASI RAKIT, HARUS SESUAI DENGAN PERSYARATAN UNTUK PELAT.
 2. TEBAL SELIMUT BETON HARUS SESUAI DENGAN POINT 2.A DARI "UMUM".
 3. LETAK TULANGAN ATAS HARUS DIJAGA DENGAN PENOPANG BESI.

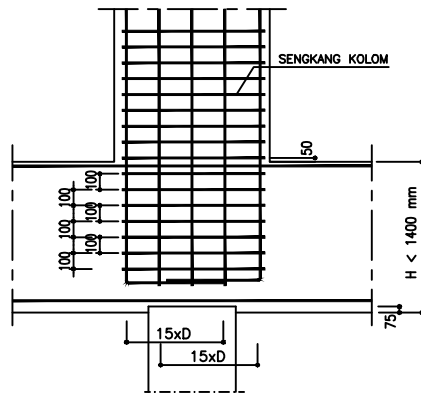
4. PELAT UNTUK LANTAI DASAR



CATATAN : BETON TAMBAHAN

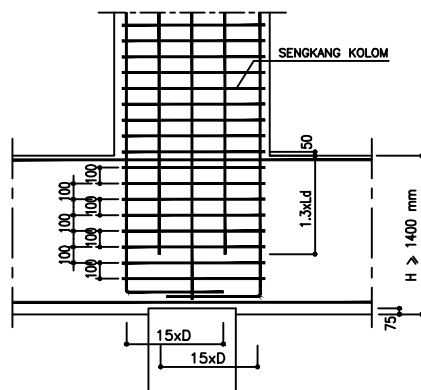
5. PENJANGKARAN TULANGAN KOLOM KE PILE CAP

(a). TINGGI PILE CAP (H) LEBIH KECIL DARI 1400 mm.



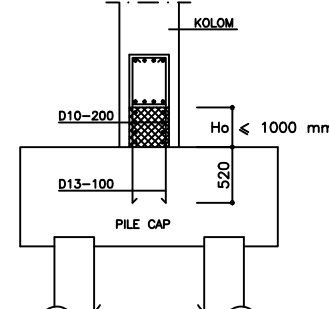
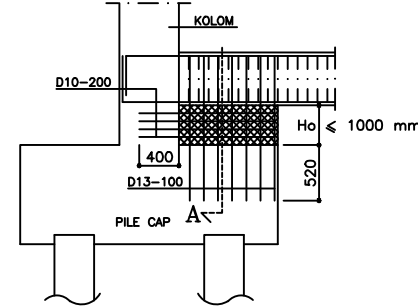
CATATAN : 100 % TULANGAN KOLOM / WALL HARUS DITURUNKAN SAMPAI BAWAH PILE CAP

(b). TINGGI PILE CAP (H) ≥ 1400 mm.



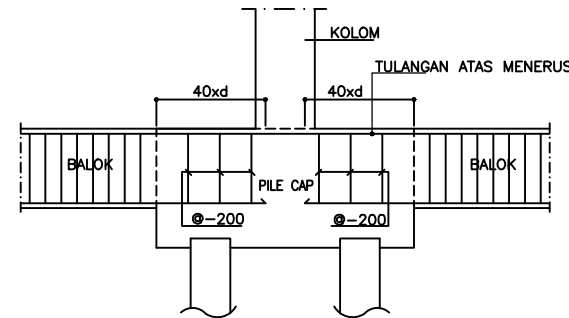
CATATAN : 50 % TULANGAN KOLOM / WALL HARUS DITURUNKAN SAMPAI BAWAH PILE CAP

6. PENULANGAN AFOR TENDERITIONAL CONCRETE DI BAWAH TIE BEAM PADA BIDANG PILE CAP



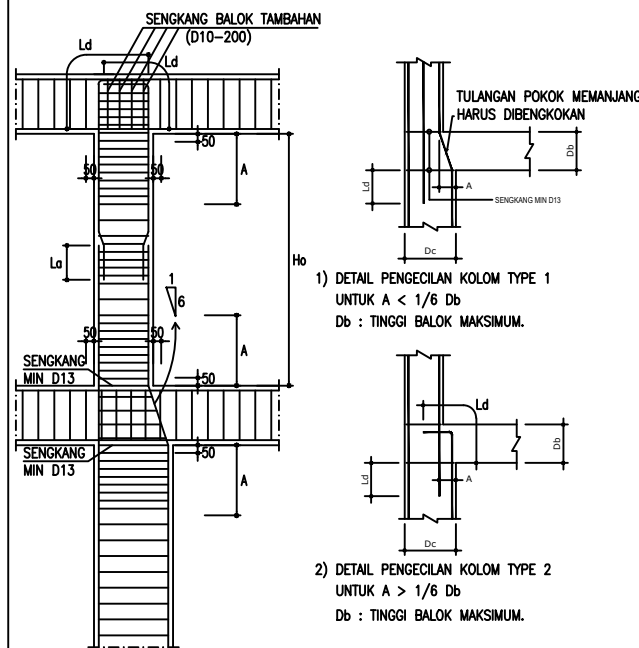
POTONGAN A

7. PENJANGKARAN TULANGAN BALOK KE PILE CAP



4. KOLOM

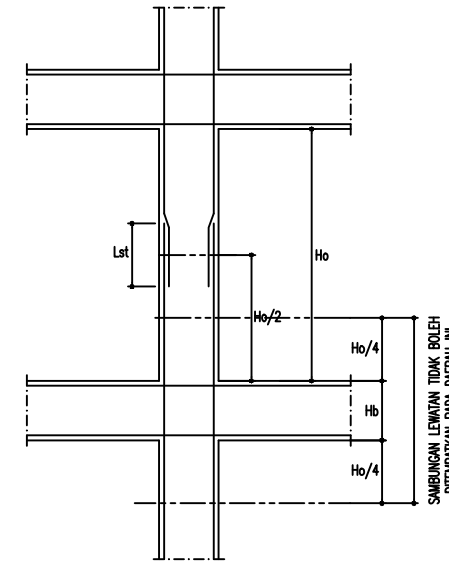
1. PEMASANGAN TULANGAN



CATATAN :

- A ≥ 450 mm ATAU
- A ≥ Ht (UKURAN SISI KOLOM TERBESAR) ATAU
- A ≥ 1/6 Ho

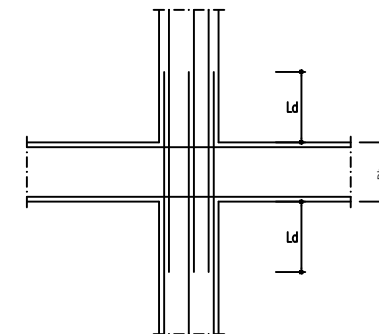
2. TEMPAT SAMBUNGAN LEWATAN



- CATATAN :
1. PEMBENGKOKKAN TULANGAN UNTUK SAMBUNGAN LEWATAN HARUS DENGAN SUDUT MINIMAL 1 : 10
 2. SPASI SENGKANG KOLOM PADA DAERAH SAMBUNGAN TULANGAN LEWATAN TIDAK BOLEH LEBIH DARI 100 mm
 3. SAMBUNGAN LEWATAN BOLEH DIGUNAKAN HANYA UNTUK TULANGAN DENGAN DIAMETER < 32 mm. TULANGAN YANG LEBIH BESAR HARUS DIGUNAKAN " MECHANICAL JOINT "
 4. PANJANG SAMBUNGAN LEWATAN TARIK (Lst) LIHAT TABEL 6.1

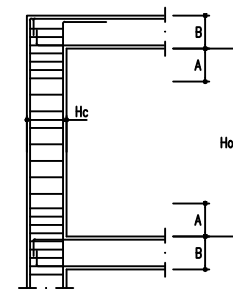
3. PANJANG PENJANGKARAN TULANGAN KOLOM ATAS

CATATAN : BILA TULANGAN KOLOM ATAS BERBEDA UKURAN / DIAMETER DENGAN TULANGAN KOLOM DI BAWAHNYA
Db : TINGGI BALOK MAKSIMUM.



4. SENGKANG KOLOM

(a). POSISI SENGKANG KOLOM



- CATATAN :
1. SENGKANG PENGKANG HARUS DIPASANG PADA AREA " A DAN B "
 2. A ≥ 450 mm
 - A ≥ Hc
 - A ≥ 1/6 Ho

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NOTES
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Blue Antz will not responsible to any breach of compliances.

1. SEMUA UKURAN DALAM MILIMETER.
2. SEMUA ELEVASI LANTAI DALAM METER.
3. MUTU BETON :
TIANG PANGANG 300X300, 450X450 : f'c = 45 MPa
PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : f'c = 35 MPa

PODUM :
KOLOM : f'c = 35 MPa
BALOK, PELAT LANTAI : f'c = 30 MPa

TOWER :
KOLOM, SHEARWALL, LINK BEAM :
- GWL - L9 : f'c = 45 MPa
- L10 - ATAP LIFT : f'c = 40 MPa
BALOK, PELAT :
- GWL - L9 : f'c = 35 MPa
- L10 - ATAP LIFT : f'c = 30 MPa

4. MUTU TULANGAN :
D = 10, BJTS 420 (fy=420 MPa)
D > 12, BJTS 420 (fy=420 MPa)
M (WIREMESH), BJTS 520 (fy=520 MPa)

5. MUTU BAJA : BJ 37 / SS 41 / Fe 360

6. MUTU LAS : E-70xx

7. MUTU BAIT : HTB A 325

8. FTL GF ±0.00 = +18.00 (KONTUR)

AREA BASAH

ISSUED

No.	DESCRIPTION	DATE

REVISION

No.	REVISIONS	DATE

KEY PLAN :

No.	REVISIONS	DATE

PROJECT TITLE :

UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :

blueantz

blueantz
Sulawesi Park, Office Block : No.28 & 29, K.A. New Mangrove, Km.20, Jalan Pantai 10220
Phone : (62-21) 5794729 Fax : (62-21) 5794733 E-mail : info@blueantz.com
blueantz

STRUCTURE CONSULTANT :

KETIRA ENGINEERING CONSULTANTS
Ketira Engineering Consultants
No. 1000000 (Building System) & Lines
Jakarta 10000 INDONESIA

MECHANICAL & ELECTRICAL CONSULTANT :

PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01, J. Pahlawan Setiabudi, Setiabudi Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5332117
Email : samasta.ama@samastatamp.com Website : www.samastatamp.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE

STANDARD DRAWING

Drawn By

Job Captain

Project Architect

Project Manager

Project Director

OWNER APPROVAL

SCALE

ISSUED FOR :

TENDER

REVISION :

0

DRAWING NUMBER :

SD-03

DATE :

28 FEBRUARI 2025

PROJECT CODE :

FILE NUMBER :

SPESIFIKASI CHEMICAL ANCHOR

- * STRUKTUR UTAMA (BALOK, KOLOM, PELAT LANTAI, DINDING BASEMENT) : HIT RE 500 V3 EX HILTI. KEDALAMAN (L) = 20 X DIAMETER.
- * STRUKTUR SEKUNDER (TANGGA) : HIT HY 200 EX HILTI. KEDALAMAN (L) = 15 X DIAMETER.
- UNTUK CHEMICAL ANCHOR HIT HY 200 TIDAK DAPAT DIGUNAKAN PADA AREA BASAH.
- * KONTRAKTOR HARUS MELAKUKAN TEST TARIK DARI CHEMICAL ANCHOR YANG SUDAH TERPASANG.
- * BESARNYA GAYA UNTUK TEST TARIK CHEMICAL ANCHOR SEBAGAI BERIKUT :

DIAMETER CHEMICAL ANCHOR (mm)	GAYA TEST TARIK (kN)
D10	25.13
D13	42.47
D16	64.34
D19	90.73
D22	121.64
D25	157.08
D29	211.37
D32	257.36

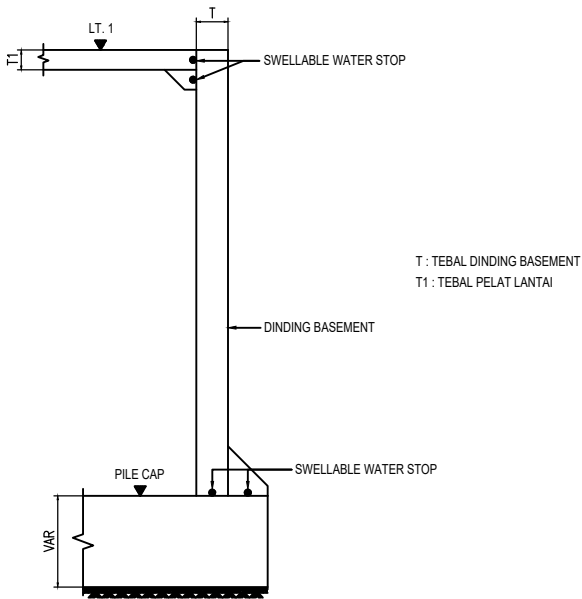
SPESIFIKASI WATER PROOFING

WATER PROOFING	
ELEMEN STRUKTUR	SISTEM WATER PROOFING
PELAT LANTAI, PILECAP, RAFT, DINDING & SEKAT GWT, DINDING GREASE TRAP	REDSEAL 4 SPC (WATER ABSORPSI < 2.30 %) EX CEMENTAID ATAU CONPLAST X421 M EX FOSROC
PELAT LANTAI RUANG GENSET & RUANG POMPA	AQUAPEL 10 SPC (WATER ABSORPSI < 1.75 %) ATAU CONPLAST X421 M EX FOSROC
LANDSCAPE, KOLAM RENANG, NON HABITABLE AREA	AQUAPEL 10 PB REINFORCED (WATER ABSORPSI < 1.75 %) ATAU CONPLAST X421 M EX FOSROC
RETAIL, KANTOR, RUANG ME	3 CC PB REINFORCED (WATER ABSORPSI < 1.50 %) EX CEMENTAID ATAU CONPLAST X421 M EX FOSROC
DAK ATAP	3 CC PB REINFORCED (WATER ABSORPSI < 1.50 %) EX CEMENTAID ATAU CONPLAST X421 M EX FOSROC

SPESIFIKASI WATER STOP & BONDING AGENT PADA SAMBUNGAN

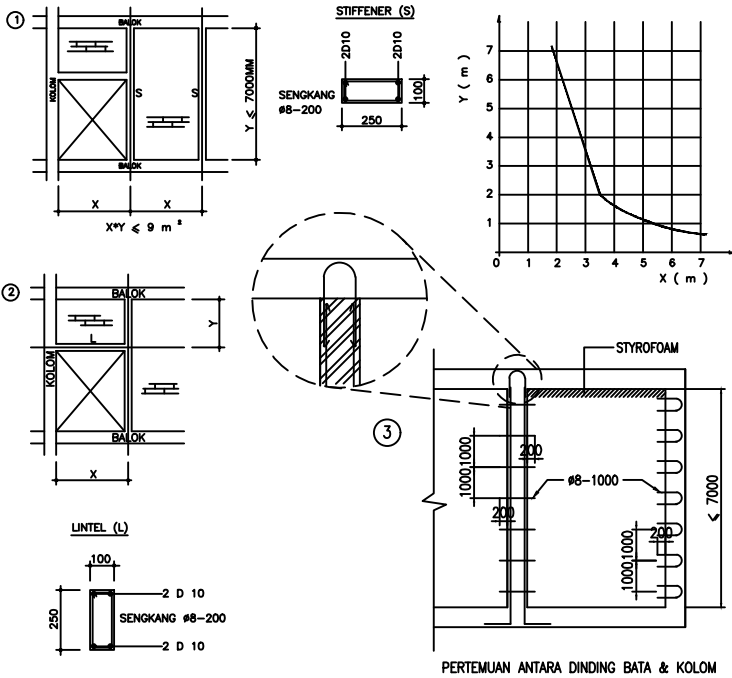
SISTEM WATER STOP UNTUK PENGECORAN ELEMENT STRUKTUR YANG PERLU DIBERIKAN WATER STOP	
ELEMEN STRUKTUR	SISTEM WATER STOP
SAMBUNGAN BETON DI BASEMENT/GWT	EVERDURE WATERSTOP (18 MM X 25 MM) EX CEMENTAID ATAU HYDROPHILIC WATERSTOPS EX FOSROC
SAMBUNGAN BETON, PIPE PROJECTION, TIE ROD POINT	EVERDURE WATERSTOP (15 MM X 20 MM) EX CEMENTAID ATAU HYDROPHILIC WATERSTOPS EX FOSROC
SISTEM BONDING AGENT UNTUK PENGECORAN	
ELEMEN STRUKTUR	BONDING AGENT
PELAT LANTAI, ATAP, DINDING BETON GWT	NITOBOND EP PADA PERMUKAAN BETON LAMA

DETAIL WATER STOP DAN SAMBUNGAN
PENGECORAN PADA DINDING BASEMENT



KOLOM DAN BALOK PRAKTIS

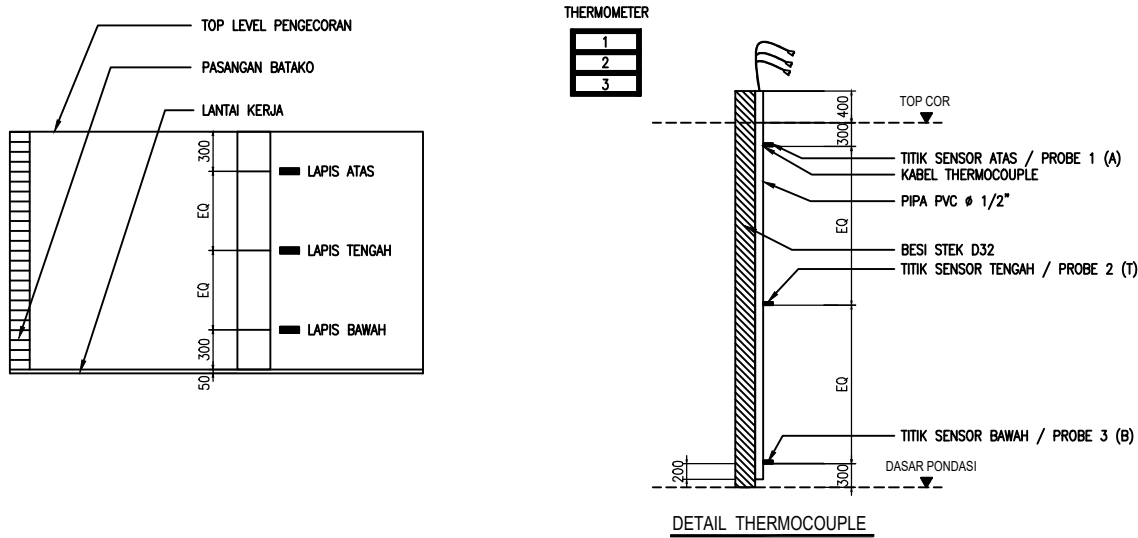
1. DINDING BATA ATAU CELCON DENGAN LUAS MAKSIMUM $9M^2$ HARUS DIKELILINGI KOLOM PRAKTIS DAN RING BALOK.
2. MUTU BETON YANG DIGUNAKAN MINIMAL : $f'_c = 20$ MPa.
3. KOLOM PRAKTIS HARUS DIPASANG PADA PERTEMUAN SUDUT DINDING.
4. DINDING DI ATAS PINTU DAN JENDELA JUGA HARUS DISANGGA OLEH BALOK LINTEL.
5. UKURAN KOLOM PRAKTIS YAITU :
130 X 200 (4D10, $\phi 8-200$) ATAU 140 X 140 (4D10, $\phi 8-200$)
6. UKURAN BALOK LINTEL YAITU :
130 X 250 (4D10, $\phi 8-200$)
7. PENGAKU HARUS DIPASANG DENGAN SYARAT SEBAGAI BERIKUT :



METODE PEMASANGAN THERMOCOUPLE

CARA PEMASANGAN PEMASANGAN THERMOCOUPLE :

1. SETIAP TITIK THERMOCOUPLE DIPASANG DALAM PIPA PVC $\phi 1/2"$ PANJANG 400 MM. POSISI CENTER PIPA DILUBANGI, LALU THERMOCOUPLE DIMASUKKAN KE LUBANG TERSEBUT.
2. UNTUK SETIAP TITIK, TERDAPAT 3 LAYER THERMOCOUPLE UNTUK MENGUKUR TEMPERATUR BETON PADA BAGIAN BAWAH, TENGAH DAN ATAS.
3. KETIGA LAYER PADA SETIAP TITIK TERSEBUT DIHUBUNGAN DENGAN KABEL DAN MENUJU TERMINAL THERMOCOUPLE UNTUK DIMONITOR TEMPERATURNYA MENGACU KEPADA TABEL METODE MONITORING TEMPERATUR.
4. CAKUPAN AREA THERMOCOUPLE SEBESAR $\pm 215 M^2$.



METODE PEMASANGAN STYROFOAM

- PEMASANGAN STYROFOAM HARUS DIPASANG SELANG SELING DAN DIBERI ISOLASI PADA SETIAP PERTEMUAN NAT STYROFOAM UNTUK MENGHINDARI KEBOCORAN PANAS
- PEMASANGAN STYROFOAM HARUS DENGAN CARA ZIG ZAG, BERTUJUAN UNTUK MENCEGAH TERJADINYA KEBOCORAN PANAS YANG BISA MENYEBABKAN TEMPERATUR BETON MENJADI TIDAK STABIL AKIBAT PELEPASAN PANAS SECARA DRASTIS DAN AKAN MENYEBABKAN RETAK THERMAL.
- (*) APABILA TERJADI PERBEDAAN TEMPERATUR YANG $\geq 20^\circ C$ ANTARA LAYER BAWAH, TENGAH, DAN ATAS PADA PONDASI RAFT, MAKA SEGERA TAMBAHKAN LAGI STYROFOAM YANG BERFUNGSI SEBAGAI THERMAL INSULATION PADA LAPISAN CURING UNTUK MENGANTISIPASI AGAR PERBEDAAN TEMPERATUR PONDASI RAFT KEMBALI STABIL ($\leq 20^\circ C$).

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1. SEMUA UKURAN DALAM MILIMETER. 2. SEMUA ELEVASI LANTAI DALAM METER. 3. MUTU BETON : TANG PANCANG $\geq 300 \times 300, 450 \times 450$: $f'_c = 45$ MPa PILE CAP, RAFT, TIE BEAM, DINDING BASEMENT : $f'_c = 35$ MPa PODIUM : KOLOM : $f'_c = 35$ MPa BALOK, PELAT LANTAI : $f'_c = 30$ MPa TOWER : KOLOM, SHEARWALL, LINK BEAM : - GWT - L9 : $f'_c = 45$ MPa - L10 - ATAP LIFT : $f'_c = 40$ MPa BALOK, PELAT : - GWT - L9 : $f'_c = 35$ MPa - L10 - ATAP LIFT : $f'_c = 30$ MPa 4. MUTU TULANGAN : D = 10, BJTS 420 ($f_y=420$ MPa) D > 12, BJTS 420 ($f_y=420$ MPa) M (WIREMESH), BJTS 520 ($f_y=520$ MPa) 5. MUTU BAJA : BJ 37 / SS 41 / Fe 360 6. MUTU LAS : E-70xx 7. MUTU BAUT : HTB A 325 8. FTL GF $\pm 0.00 = +18.00$ (KONTUR) AREA BASAH		
ISSUED		
No.	DESCRIPTION	DATE
REVISION		
No.	REVISIONS	DATE
KEY PLAN :		

PROJECT TITLE :
UrbnX APARTMENT

OWNER :

DESIGN ARCHITECT :
blueantz
Sulawesi Park, Office Block C No.39 & K&A, New Mangrove, Km.35, Jalan Pantai 10220
Phone : (62-21) 57947219 Fax : (62-21) 57947220 E-mail : info@blueantz.com
blueantz.com

STRUCTURE CONSULTANT :
KETIRA ENGINEERING CONSULTANTS
Ketira Engineering Consultants
No. 10000000 (Building Systems) & Lines
Jakarta 10000 INDONESIA

MECHANICAL & ELECTRICAL CONSULTANT :
PT. SAMASTA REKAYASA TEKNIK
Mechanical, Electrical & Plumbing Consultant
Ruko Golden Boulevard, Blok V No. 01 - J. Pahlawan Senayan, Setiabudi Utara
Tangerang Selatan, Tangerang, Banten 15139 Phone : (021) 5376217
Email : samasta.urni@samastarep.com Website : www.samastarep.com

QUANTITY SURVEYORS :

DESIGN INTERIOR

LANDSCAPE CONSULTANT :

DRAWING TITLE

STANDARD DRAWING

Drawn By		DATE
Job Captain		DATE
Project Architect	-	DATE
Project Manager	-	DATE
Project Director	ANNIE RETIKA, MSc	DATE
OWNER APPROVAL		DATE

SCALE : NTS

ISSUED FOR : TENDER

REVISION : 0

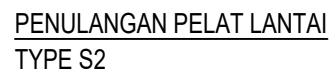
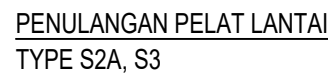
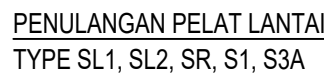
DRAWING NUMBER : SD-06

DATE : 28 FEBRUARI 2025

PROJECT CODE :

FILE NUMBER:

LANTAI	TIPE PELAT	TEBAL PELAT (mm)	A (U-42)	B (U-42)	C (U-42)	D (U-42)	X (U-42)	Y (U-42)
P2	SL1	150	–	–	–	–	D10–150	D10–200
FASILITAS	SL2	200	–	–	–	–	D13–100	D13–100
RAMP	SR	150	–	–	–	–	D10–100	D10–150
GF – LEVEL 20	S1	120	–	–	–	–	D10–200	D10–200
GF – LEVEL 20	S2	130	D10–200	D10–400	D10–300	–	D10–200	D10–200
GF – LEVEL 20	S2A	130	D10–200	D10–400	D10–300	D10–400	D10–200	D10–200
LEVEL 2, ATAP	S3	200	D13–150	D10–250	D13–150	D10–400	D13–250	D13–250
ATAP	S3A	200	–	–	–	–	D10–100	D10–100



SCALE	NTS		
ISSUED FOR : TENDER	REVISION : 0	DRAWING NUMBER : S-52	
DATE : 19 MARET 2025	PROJECT CODE : .	FILE NUMBER:	

Jankhna,
FOR TENDER