IN IAYA CM	DATA TEKNIS PROYEK	Nomor
JATA CM		Halaman
BIRO ENGINEERING	APARTMENT	Tanggal

NAMA PROYEK	: PODOMORO CITY DELI MEDAN
PEMILIK	: PT SINAR MENARA DELI (AGUNG PODOMORO LAND)
JENIS PROYEK	: APARTMENT, OFFICE, HOTEL, MALL & PARKING AREA (SUPER BLOK)
LOKASI	: JALAN PUTRI HIJAU, MEDAN, SUMATERA UTARA
PERIODE PELAKSANAAN	: 2013 s/d 2021

4			ELEKTRIKAL		
4,1	DATA DAYA UTAMA		KAPASITAS	SATUAN	KETERANGAN
	Besaran Daya Total	:	5540	KVA	Daya PLN Tersambung
	Listrik Total untuk Penerangan	:	312	KVA	Trafo 2000 KVA = 1 Unit
	Listrik Total untuk Stop Kontak		4725	KVA	Sambungan PLN = 5540 KVA
	Listrik Total untuk Daya :				
	- VAC	:	96	KVA	
	- Lift	:	435	KVA	
	- Pompa-pompa	:	560	KVA	
	- FAN ( PAF & SEF )	:	94	KVA	
	Total	:		KVA	

	DATA KEBUTUHAN DAYA					•	
4,2	Lighting / Penerangan & Stop kontak	MERK	TYPE	JUMLAH	JUMLAH DAYA (Watt)	SATUAN (Watt)	KETERANGAN
1 1	Penerangan & STK lantai ground						
1	Tower Liberty						
ı	Down Light Led 10 W			42	10	420,0	
I	Linear Led 10 W / Meter			247	10	2470,0	
-	TL TKO 1 x 18 W			21	18	378,0	
			Total Penerangan			3268,0	
Ç	Stk Lantai 200 W / titik	Boss		5	200	1000,0	
	Stk dinding 200 W / titik	Boss		24	200	4800,0	
			Total Stk			5800,0	
2	Tower Linclon						
ı	Down Light Led 10 W			31	10	310,0	
l	Linear Led 10 W/ Meter			218	10	2180,0	
-	TL TKO 1 x 18 W			21	18	378,0	
			Total Penerangan			2868,0	
	Stk Lantai 200 W / titik	Boss		5	200	1000,0	
	Stk dinding 200 W / titik	Boss		12	200	2400,0	
			Total Stk			3400,0	·
3	Tower Lexington						
ı	Down Light Led 10 W			40	10	400,0	
l	inear Led 10 W/ Meter			179	10	1790,0	

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	BIRO ENGINEERING		APARTMENT					Tanggal	
	TL TKO 1 x 18 W			21	18	378,0			
			Total Penerangan			2568,0			
	Stk Lantai 200 W / titik	Boss		5	200	1000,0			
	Stk dinding 200 W / titik	Boss		19	200	3800,0			
			Total Stk			4800,0			
4	Drive way								
	DL-DW1 Led 20 W			32	20	640,0			
	DL-DW2 Led 30 W			110	30	3300,0			
	LL-DW1 14 W/ Meter			896	14	12544,0			
	LL-DW2 7 W/ Meter			688	7	4816,0			
	LL-DW3 14 W/ Meter			439	14	6146,0			
	LL-DW4 8 W/ Meter			3288	8	26304,0			
			Total Penerangan			53750,0			
II	Penerangan & STK area Parkir								
1	Parkir P9 - Liberty								
	TL TKO 1 x 36 W			58	36	2088,0			
	TL TKO 1 x 18 W			7	18	126,0			
	Down Light PLC 13 W			11	13	143,0			
			Total Penerangan			2357,0			
	Stk 200 W			5	200	1000,0			
2	Parkir P9 - Linclon								
	TL TKO 1 x 36 W			54	36	1944,0			
	TL TKO 1 x 18 W			3	18	54,0			
	Down Light PLC 13 W			4	13	52,0			
			Total Penerangan			2050,0			
	Stk 200 W		Total Stk	2	200	400,0			
3	Parkir P9 - Lixington								
	TL TKO 1 x 36 W			44	36	1584,0			
	TL TKO 1 x 18 W			5	18	90,0			
	Down Light PLC 13 W			11	13	143,0			
			Total Penerangan			1817,0			
	Stk 200 W		Total Stk	5	200	1000,0			
4	Parkir P10 - Liberty								
	TL TKO 1 x 36 W			76	36	2736,0			
	TL TKO 1 x 18 W			11	18	198,0			
	Down Light PLC 13 W			11	13	143,0			
			Total Penerangan			3077,0			
	Stk 200 W		Total Stk	11	200	2200,0			

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	BIRO ENGINEERING	APARTMENT							Tanggal	
5	Parkir P10 - Linclon									
	TL TKO 1 x 36 W				60	36	2160,0			
	TL TKO 1 x 18 W				3	18	54,0			
	Down Light PLC 13 W				4	13	52,0			
			Total Penerangan				2266,0			
	Stk 200 W		Total Stk		4	200	800,0			
6	Parkir P10 - Lixington									
	TL TKO 1 x 36 W				55	36	1980,0			
	TL TKO 1 x 18 W				3	18	54,0			
	Down Light PLC 13 W				6	13	78,0			
			Total Penerangan				2112,0			
	Stk 200 W		Total Stk		7	200	1400,0			
III	Penerangan Lounge									
	Down led 15 W				18	15	270,0			
	Down led 9 W				67	9	603,0			
	Linear led 10 W / m				162	10	1620,0			
	Hanging lamp 100 w				8	100	800,0			
			Total Penerangan				3293,0			
	Stk Lantai 200 W / titik	Boss			18	200	3600,0			
	Stk dinding 200 W / titik	Boss			13	200	2600,0			
			Total Stk				6200,0			
IV	Lanskape & kolam renang									
	Bolard 9 W				101	9	909,0			
	Spike Lamp 9W				252	9	2268,0			
	ST- iL				19	5	95,0			
	Linear Led 10 w/ m				130	10	1300,0			
	Under water -L2R 18 W				11	18	198,0			
	Under water -L2R 14 W				20	14	280,0		<u> </u>	
			Total Penerangan				4141,0			
٧	Penerangan & STK area Loby & Coridor									
1	Lantai.1- Liberty									
	Down Light PLC 13 W				32	13	416,0			
	TL TKO 1 x 18 W				6	18	108,0			
			Total Penerangan				524,0			
	Stk 200 W		Total Stk		8	200	1600,0			
2	Lantai.1- Linclon									
	Down Light PLC 13 W				28	13	364,0		·	
	TL TKO 1 x 18 W				3	18	54,0			
			Total Penerangan				418,0			

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	BIRO ENGINEERING			APARTMENT						Tanggal
	Stk 200 W			Total Stk		6	200	1200,0		
3	Lantai.1- Lexington									
	Down Light PLC 13 W					30	13	390,0		
	TL TKO 1 x 18 W					6	18	108,0		
				Total Penerangan				498,0		
	Stk 200 W			Total Stk		6	200	1200,0		
4	Lantai.2- Linclon									
	Down Light PLC 13 W					27	13	351,0		
	TL TKO 1 x 18 W					3	18	54,0		
				Total Penerangan				405,0		
<u> </u>	Stk 200 W					6	200	1200,0		
				Total Stk						
5	Lantai.2- Lexington									
	Down Light PLC 13 W					29	13	377,0		
	TL TKO 1 x 18 W					4	18	72,0		
				Total Penerangan				449,0		
	Stk 200 W					6	200	1200,0		
6	Lantai.2.LB - 21 LB (Total = 20 Lantai)									
	Down Light PLC 13 W (34/ Lantai)					680	13	8840,0		
	TL TKO 1 x 18 W (3 / Lantai)					100	18	1800,0		
				Total Penerangan				10640,0		
	Stk 200 W ( 8 /Lantai )					120	200	24000,0		
7	Lantai.3 LC - 21 LC (Total = 19 Lantai)									
	Down Light PLC 13 W (32/ Lantai)					608	13	7904,0		
	TL TKO 1 x 18 W ( 3 / Lantai )					57	18	1026,0		
				Total Penerangan				8930,0		
	Stk 200 W ( 7 /Lantai )					133	200	26600,0		
6	Lantai.2 LX - 21 LX (Total = 19 Lantai)									
	Down Light PLC 13 W (34/ Lantai)					646	13	8398,0		
	TL TKO 1 x 18 W (5 / Lantai)					95	18	1710,0		
				Total Penerangan				10108,0		
	Stk 200 W ( 7 /Lantai )			Total Stk		133	200	26600,0		
۷I	Unit Apartement									
1	Unit Studio (Sambungan 2200 W 1φ)= 168 unit	2200								
	Down light PLC 13 W (2 titik /unit)					372	13	4836,0		
	Down light PLC 9 W (1 titik / unit)					168	9	1512,0		

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	BIRO ENGINEERING		APARTMENT							Tanggal	
				Total Penerangan				6348,0			
	Stk Kulkas 100 W (1 titik / unit)					168	100	16800,0			
	Stk TV 70 W (1 titik / unit)					168	70	11760,0			
	Stk Water heater 400 W ( 1 titik/unit )					168	400	67200,0			
	Stk Micro wave 400 W (1 titik/ unit)					168	400	67200,0			
	Stk dinding 70 W ( 1 titik / unit )					168	70	11760,0			
	Unit AC 1 Pk ( 750 W ) 1 titik / unit					168	750	126000,0			
				Total Stk				300720,0			
2	Unit I.BA (Sambungan 2200 W 1φ)= 332 unit	2200									
	Down light PLC 13 W (4 titik /unit)					1328	13	17264,0			
	Down light PLC 9 W (1 titik / unit)					332	9	2988,0			
				Total Penerangan				20252,0			
	Stk Kulkas 100 W (1 titik / unit)					332	100	33200,0			
	Stk TV 70 W (1 titik / unit)					332	70	23240,0			
	Stk Water heater 400 W ( 1 titik/unit )					332	400	132800,0			
	Stk Micro wave 400 W (1 titik/ unit)					332	400	132800,0			
	Stk dinding 70 W ( 1 titik / unit )					332	70	23240,0			
	Unit AC 1 Pk (750 W ) 1 titik / unit					332	750	249000,0			
				Total Stk				594280,0			
3	Unit I.BB (Sambungan 2200 W 1φ) = 82 unit	2200									
	Down light PLC 13 W ( 3 titik /unit )					246	13	3198,0			
	Down light PLC 9 W (1 titik / unit)					82	9	738,0			
				Total Penerangan				3936,0			
	Stk Kulkas 100 W (1 titik / unit)					82	100	8200,0			
	Stk TV 70 W (1 titik / unit)					82	70	5740,0			
	Stk Water heater 400 W ( 1 titik/unit )					92	400	36800,0			
	Stk Micro wave 400 W (1 titik/ unit)					82	400	32800,0			
	Stk dinding 70 W ( 1 titik /unit )					82	70	5740,0			
	Unit AC 1 Pk ( 750 W ) 1 titik / unit					82	750	61500,0			
				Total Stk				150780,0			
4	Unit 2.BA (Sambungan 3500 W 1φ) = 224 unit	3500									
	Down light PLC 13 W (6 titik /unit)					1344	13	17472,0			
	Down light PLC 9 W (1 titik / unit)					224	9	2016,0			
				Total Penerangan				19488,0			
	Stk Kulkas 100 W (1 titik / unit)					224	100	22400,0			
	Stk TV 70 W (2 titik / unit)					448	70	31360,0			
	Stk Water heater 400 W (1 titik/unit)					224	400	89600,0			
	Stk Micro wave 400 W ( 1 titik/ unit )					224	400	89600,0			

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BIRO ENGINEERING			APARTMENT						Tanggal
Stk dinding 70 W (6 titik / unit)					1344	70	94080,0		
Unit AC 1 Pk ( 750 W ) 2 titik / unit					448	750	336000,0		
Unit AC 1 Pk ( 375 W ) 2 titik / unit					448	375	168000,0		
			Total Stk				808640,0		
5 Unit 2.BB (Sambungan 3500 W 1φ) = 349	3500								
Down light PLC 13 W (6 titik /unit)					2094	13	27222,0		
Down light PLC 9 W (1 titik / unit)					349	9	3141,0		
			Total Penerangan				30363,0		
Stk Kulkas 100 W (1 titik / unit)					349	100	34900,0		
Stk TV 70 W (2 titik / unit)					698	70	48860,0		
Stk Water heater 400 W (1 titik/unit)					349	400	139600,0		
Stk Micro wave 400 W (1 titik/ unit)					349	400	139600,0		
Stk dinding 70 W (5 titik / unit)					1745	70	122150,0		
Unit AC 1 Pk (750 W ) 2 titik / unit					698	750	523500,0		
Unit AC 1 Pk ( 375 W ) 2 titik / unit					698	375	261750,0		
			Total Stk				1235460,0		
6 Unit 2.BC (Sambungan 3500 W 1φ) = 189	3500								
Down light PLC 13 W (5 titik /unit)					945	13	12285,0		
Down light PLC 9 W (2 titik / unit)					378	9	3402,0		
			Total Penerangan				15687,0		
Stk Kulkas 100 W (1 titik / unit)					189	100	18900,0		
Stk TV 70 W (2 titik / unit)					378	70	26460,0		
Stk Water heater 400 W ( 1 titik/unit )					189	400	75600,0		
Stk Micro wave 400 W ( 1 titik/ unit )					189	400	75600,0		
Stk dinding 70 W (4 titik / unit)					756	70	52920,0		
Unit AC 1 Pk ( 750 W ) 2 titik / unit					378	750	283500,0		
Unit AC 1 Pk ( 375 W ) 2 titik / unit					378	375	141750,0		
			Total Stk				655830,0		
7 Unit 2.BD (Sambungan 3500 W 1φ) = 99 unit	3500								
Down light PLC 13 W (5 titik /unit)					495	13	6435,0		
Down light PLC 9 W (2 titik / unit)					198	9	1782,0		
			Total Penerangan				8217,0		
Stk Kulkas 100 W (1 titik / unit)					99	100	9900,0		
Stk TV 70 W (2 titik / unit )					198	70	13860,0		
Stk Water heater 400 W ( 1 titik/unit )					99	400	39600,0		
Stk Micro wave 400 W ( 1 titik/ unit )					99	400	39600,0		
Stk dinding 70 W (5 titik / unit)					495	70	34650,0		

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	BIRO ENGINEERING			APARTMENT						Tanggal	
	Unit AC 1 Pk (750 W ) 2 titik / unit						198	750	148500,0		
	Unit AC 1 Pk ( 375 W ) 2 titik / unit						198	375	74250,0		
	, ,				Total Stk				350460,0		
	Unit 3.BA (Sambungan 6600 VA 1φ)=				- Star Star				000 100,0		
8	99 unit	6600									
	Down light PLC 13 W (8 titik /unit)						792	13	10296,0		
	Down light PLC 9 W (3 titik / unit)						297	9	2673,0		
	,				Total Penerangan				12969,0		
	Stk Kulkas 100 W (1 titik / unit)						99	100	9900,0		
	Stk TV 70 W (2 titik / unit )						198	70	13860,0		
	Stk Water heater 400 W (1 titik/unit)						99	400	39600,0		
	Stk Micro wave 400 W (1 titik/ unit)						99	400	39600,0		
	Stk dinding 70 W (7 titik / unit)						693	70	48510,0		
									· ·		·
	Unit AC 1 Pk (750 W ) 2 titik / unit						198	750	148500,0		
1	Unit AC 1 Pk ( 375 W ) 2 titik / unit						198	375	74250,0		
<u> </u>					Total Stk				364320,0		
9	Unit 3.BA (Sambungan 6600 W 1φ) = 42 unit	6600									
	Down light PLC 13 W (8 titik /unit)						336	13	4368,0		
	Down light PLC 9 W (3 titik / unit)						126	9	1134,0		
					Total Penerangan				5502,0		
	Stk Kulkas 100 W (1 titik / unit)						42	100	4200,0		
	Stk TV 70 W (2 titik / unit )						84	70	5880,0		
	Stk Water heater 400 W ( 1 titik/unit )						42	400	16800,0		
	Stk Micro wave 400 W (1 titik/ unit)						42 294	400 70	16800,0 20580,0		
	Stk dinding 70 W (7 titik / unit)					+	294	70	20580,0		
	Unit AC 1 Pk ( 750 W ) 2 titik / unit						84	750	63000,0		
	Unit AC 1 Pk ( 736 W ) 2 titik / unit		H				84	375	31500,0		
			H		Total Stk		· ·	5.5	154560,0		
VII	Lampu Crown										
	Linear Lighting Led 50 wat LB = 92 titik						92	50	4600,0		
	Linear Lighting Led 50 wat LC = 48 titik						48	50	2400,0		
	Linear Lighting Led 50 wat LX = 92 titik						92	50	4600,0		
					Total Penerangan				11600,0		·
<u> </u>											
<u> </u>	Equipment Utama		Ш								
1	Trafo Liberty		-	Trafindo	Trafo minyak		1	1800	KVA		
<b>—</b>	Trafo Lincoln		Н	Trafindo	Trafo minyak		1	2000	KVA		
	Trafo Lexington		H	Trafindo	Trafo minyak		1	1800	KVA		
2	Panel TM ( 2		H	ABB	Indoor		-	-	Kubikal		
3	PUTR, CAP Bank		브	Hasna Prima	Indoor		-	-	Kubikal		
4	Kabel Feeder		Н	NA2XY	Kabelindo						
-			$\vdash$								

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BIRO ENGINEERING	APARTMENT	Tanggal

5	SOUND SYSTEM, TELEPON, FA, CCTV, BAS						
	Equipment Utama		MERK	TYPE	JUMLAH	SATUAN	KETERANGAN
5,1	SOUND SYSTEM			•	"		
T	Power Amplifier	1:1	TOA	ZP-2240	19	UNIT	
	MixerAmplifieer	:	TOA	ZP-2240	2	UNIT	
	Zone Selector	:	TOA		2	UNIT	
	Audio Player	:	TOA	Z-CD2011R	2	UNIT	
Ш	Instalasi Ceiling spekaer						
1	Lantai Basement						
- 1	Ceiling speaker		TOA	ZS-2369	24	Titik	
			TOA	ZS-2369 ZS-062	10	Titik	
	Wall Speaker	:	TOA	ZS-062 ZH-61SM	27	Titik	
	Horn Speaker		TOA	ZH-61SM	2/	litik	
	I antail access and						
2	Lantai Lower ground Ceiling speaker		TOA	ZS-2369	24	Titik	
	Wall Speaker	:	TOA	ZS-062	12	Titik	
	Horn Speaker	:	TOA	ZH-61SM	11	Titik	
3	Lantai Lower Mezanin						
	Ceiling speaker	:	TOA	ZS-2369	26	Titik	
	Wall Speaker	:	TOA	ZS-062	5	Titik	
	Horn Speaker	:	TOA	ZH-61SM	10	Titik	
4	Ground Floor						
	Ceiling speaker	:	TOA	ZS-2369	86	Titik	
5	Lantai 2 s/d 30 area loby & Corridor						
	@ 29 Lt/Tower x 2 Tower = 58 Lantai						
	Ceiling speaker ( 7 titik )	:	TOA	ZS-2369	406	Titik	
6	Unit Apartemen						
6,1	Unit 2BR ( 2BR.A ) = 113 unit						
	Ceiling speaker (1 titik)	:	TOA	ZS-2369	113	Titik	
6.2	Unit 2BR ( 2BR.B ) = 58 unit						
٥,٢	Ceiling speaker ( 1 titik )		TOA	ZS-2369	58	Titik	
	Coming operator ( ) turk )	-	IOA	20-2000	30	HUK	
6,3	Unit 3BR (3BR.A) = 226 unit						
	Ceiling speaker ( 2 titik )	:	TOA	ZS-2369	452	Titik	
6,4	Unit 3BR (3BR.B) = 116 unit						
	Ceiling speaker ( 2 titik )	:	TOA	ZS-2369	232	Titik	

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5,2	FIRE ALARM							KETERANGAN
1	Master Control Fire Alarm			Context Plus	IFP Loop	1	Unit	
2	Anunciator Panel		:	Context Plus	IFP Compact	1	Unit	
			:					
П	Instalasi FireAlarm		:					
1	Lantai Basement							
	Smoke Detector			Context Plus	D-213	36	Titik	
	ROR Detector			Context Plus	D-103	117	Titik	
2	Lantai Lower Ground							
	Smoke Detector			Context Plus	D-213	36	Titik	
	ROR Detector			Context Plus	D-103	117	Titik	
	NON Delector			Context 1 lus	D-103	117	TIGIK	
3	Lantai Mezanine							
	Smoke Detector			Context Plus	D-213	42	Titik	
	ROR Detector			Context Plus	D-103	48	Titik	
4	Lantai Ground							
	Smoke Detector	450		Context Plus	D-213	54	Titik	
5	Lantai 2 s/d 30 area loby & Corridor							
	@ 29 Lt/Tower x 2 Tower = 58 Lantai							
	Smoke Detector ( 6 titik / lantai )			Context Plus	D-213	348	Titik	
6	Unit Apartemen							
_	Unit 2BR (2BR.A) = 113 unit							
0, .	Smoke Detector ( 1 titik / lantai )			Context Plus	D-213	113	Titik	
	Fixed heat Detector ( 1 tititk/unit )			Context Plus	D-103	113	Titik	
	ROR Detector ( 3 titik / unit )			Context Plus	D-103	339	Titik	
	, ,							
6,2	Unit 2BR ( 2BR.B ) = 58 unit							
	Smoke Detector ( 1 titik / lantai )			Context Plus	D-213	58	Titik	
	Fixed heat Detector ( 1 tititk/unit )			Context Plus	D-103	58	Titik	
	ROR Detector ( 3 titik / unit )			Context Plus	D-103	174	Titik	
0.0	Heit ODD (ODD A) OCC. "			-		-		
0,3	Unit 3BR (3BR.A) = 226 unit			Contact Plus	D-213	450	Titile	
	Smoke Detector ( 2 titik / lantai )			Context Plus	D-213 D-103	452	Titik	
	Fixed heat Detector ( 1 tititk/unit )  ROR Detector ( 4 titik / unit )			Context Plus Context Plus	D-103 D-103	226 904	Titik Titik	
	NON Detector ( 4 titlik / utilit )			Context Plus	D-103	904	TILIK	
6,4	Unit 3BR (3BR.B) = 116 unit			+		1		
	Smoke Detector ( 2 titik / lantai )			Context Plus	D-213	232	Titik	
	Fixed heat Detector ( 1 tititk/unit )			Context Plus	D-103	116	Titik	
	ROR Detector ( 5 titik / unit )			Context Plus	D-103	580	Titik	
	Total titik sprinkler untuk 3BR	8					1	

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BIRO ENGINEERING	APARTMENT		Tanggal
5,3 CCTV		KETERANGAN	

5,3	ССТУ						KETERANGAN
ı	Peralatan Utama	:					
1	Digital Vidio Recorder ( DVR )		Fracaro	DVR-Tri 16	16	Unit	
2	Led Monitor CCTV 32 Inch		LG		32	Unit	
3	Personil Computer		HP		1	Unit	
П	Instalasi CCTV						
1	Lantai Basement						
	Instalasi & CCTV		Fracaro	CDIR1200-3.6	14	Titik	
2	Lantai Lower Ground						
	Instalasi & CCTV		Fracaro	CDIR1200-3.6	9	Titik	
3	Lantai LG Mezanin						
	Instalasi & CCTV		Fracaro	CDIR1200-3.6	11	Titik	
4	Lantai Ground						
	Instalasi & CCTV		Fracaro	CDIR1200-3.6	22	Titik	
5	Lantai 2 s/d 30 area loby & Corridor						
	@ 29 Lt/Tower x 2 Tower = 58 Lantai						
	Instalasi & CCTV ( 3 titik / lantai )		Fracaro	CDIR1200-3.6	174	Titik	
		+					

EQUIPMENT UTAMA			MERK	TYPE	JUMLAH	KAPASITAS	SATUAN	DAYA	SATUAN	KETERANGAN
Kapasitas Ground Reservoir		:	CONCRETE WATER PROOF	CONCRETE WATER PROOF	1	1839	M3	N/A	M3	1 GWT untuk 3 tower
	TOWER 1	:	Royal	FRP Panel	1	37	M3	N/A	M3	Liberty
	TOWER 2	:	Royal	FRP Panel	1	35	M3	N/A	M3	Lincoln
Kapasitas Reservoir Atas	TOWER 3	:	Royal	FRP Panel	1	36	M3	N/A	M3	Lexington
	TOWER 4	:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	TOWER 5	:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Kapasitas RWT			CONCRETE WATER PROOF	CONCRETE WATER PROOF	1	144	МЗ	N/A	МЗ	RAW WATER
Kapasitas CWT			N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Kapasitas WTP		:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Pompa WTP			N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Pompa Air Bersih		:	Wilo	Vertical multi stage	4	18	m3/jam	16	KW	
Pompa Sumpit		:	-	-	-	-	-	-	-	Tidak ada sumpit, sumpit by mall
Pompa Grease Trap		:	-	-	-	-	-	-	-	Tidak ada greasetrap, greasetrap by mall
	AB	:	Westpex	PPR PN 10, PN 20			N/A	N/A	N/A	
	AK	:	Invilon	PVC AW Class 10 kg/cm2						
	ABK	:	Invilon	PVC AW Class 10 kg/cm2						
PIPA	ABD	:	Invilon	PVC AW Class 10 kg/cm2						
	AH	:	Invilon	PVC AW Class 10 kg/cm2						
	RISER AB	:	Westpex	PPR						
	R. POMPA AB	:	Ricon	Galvenized						
	R. POMPA AB		Kitz	Gate valve						

I JAYA CM			DATA TEKNIS PROYEK								
BIRO ENGIN	EERING		APARTMENT								
VALVE	PRV		Singer	Membrane (pilot operated)							
PRV			Singer	Membane (pilot Operated)							
	1	:	-	Extended Aeration + MBR System	1	430	m3 / Hari				
STP	2	1:	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	3	:	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
				UKURAN							
Ukuran Grease Trap		:		N/A	N/A	N/A	N/A	N/A	N/A		
Ukuran Sumpit		1:1		N/A	N/A	N/A	N/A	N/A	N/A		

Ukuran Sumpit		:	N/A	N/A	N/A	N/A	N/A	N/A	
FIRE FIGHTING									
EQUIPMENT UTAMA		MERK	ТҮРЕ	JUMLAH	KAPASITAS (GPM)	DAYA (KW)	М3/Н		KETERANGAN
	JOCKEY	: Patterson	n Vertical multistage	1	10	3			
Pompa Fire Fighting I	ELECTRIC	: Patterson	n Horizontal split case	1	1.000	270	230		
	DIESEL	: Patterson	n Horizontal split case	1	1.000	360 HP			
	JOCKEY	: N/A	N/A	N/A	N/A	N/A			
Pompa Fire Fighting II	ELECTRIC	: N/A	N/A	N/A	N/A	N/A			
	DIESEL	: N/A	N/A	N/A	N/A	N/A			
Kapasitas Fire Tank	1	: CONCRET	OOF CONCRETE WATER PROOF	1	227	M3			
	II	: N/A	N/A	N/A	N/A	N/A		_	
		: N/A	N/A	N/A	N/A	K FACTOR	WARNA	<b>1</b>	
	TOWER LIBERTY			JUMLAH UNIT	JUMLAH SPRINKLER TIAP UNIT				
	UNIT STUDIO	: Viking	Pendent	42	2	5,6	Merah		
	UNIT 1 BA	: Viking	Pendent	84	-	5,6	Merah	1	
	UNIT 1 BB	: Viking	Pendent	40	3	5,6	Merah		
	UNIT 2 BA	: Viking	Pendent	83	4	5,6	Merah		
	UNIT 2 BB	: Viking	Pendent	126	5	5,6	Merah		
	UNIT 2 BC	: Viking	Pendent	41	5	5,6	Merah		
	UNIT 2 BD	: Viking	Pendent	41	5	5,6	Merah		
	UNIT 3 BA	: Viking	Pendent	41	7	5,6	Merah		
	UNIT 3 BB	: Viking	Pendent	21	7	5,6	Merah		
	TOWER LINCOLN								
	UNIT STUDIO	: Viking	Pendent	84	2	5,6	Merah		
	UNIT 1 BA	: Viking	Pendent	164	3	5,6	Merah	<u> </u>	
	UNIT 1 BB	: Viking	Pendent	-	-	5,6	Merah	<u> </u>	
	UNIT 2 BA	: Viking	Pendent	59	4	5,6	Merah	ļ	
	UNIT 2 BB	: Viking	Pendent	99	-	5,6	Merah	ļ	
	UNIT 2 BC	: Viking	Pendent	103	5	5,6	Merah	ļ	
	UNIT 2 BD	: Viking	Pendent	19	-	5,6	Merah	<u> </u>	
	UNIT 3 BA	: Viking	Pendent	19	-	5,6	Merah	<u> </u>	
	UNIT 3 BB	: Viking	Pendent	-	-	5,6	Merah	1	

II IAYA CM					DATA	TEKNIS PRO	VEK		Nomor
JATA CIVI					DATA	I I EKNIS PRO	IEK		Halaman
BIRO ENGINEER	RING					APARTMENT			Tanggal
	TOWER								
Springkler	LEXINGTON								
	UNIT STUDIO	:	Viking	Pendent	42	2	5,6	Merah	
	UNIT 1 BA	:	Viking	Pendent	84	-	5,6	Merah	
	UNIT 1 BB	:	Viking	Pendent	42	3	5,6	Merah	
	UNIT 2 BA	:	Viking	Pendent	82	4	5,6	Merah	
	UNIT 2 BB	:	Viking	Pendent	124	5	5,6	Merah	
	UNIT 2 BC	:	Viking	Pendent	40	5	5,6	Merah	
	UNIT 2 BD	:	Viking	Pendent	39	5	5,6	Merah	
	UNIT 3 BA	:	Viking	Pendent	39	7	5,6	Merah	
	UNIT 3 BB	:	Viking	Pendent	21	7	5,6	Merah	
	Koridor Unit LIBERTY	:	Viking	Pendent	-	21	5,6	Merah	
	Koridor Unit LINCOLN	:	Viking	Pendent	-	28	5,6	Merah	
	Koridor Unit LEXINGTON	:	Viking	Pendent	-	22	5,6	Merah	
	Lobby LIBERTY		Viking	Concealed Pendent	17	N/A	5,6	Merah	
	Koridor Lobby	÷	Viking	Concealed Pendent	12	N/A	5,6	Merah	
	Lobby LINCOLN	Ħ	Viking	Concealed Pendent	22	N/A	5,6	Merah	
	Koridor Lobby	H	Viking	Concealed Pendent	7	N/A	5,6	Merah	
	Lobby LEXINGTON	:	Viking	Concealed Pendent	17	N/A	5,6	Merah	
	Koridor Lobby	:	Viking	Concealed Pendent	10	N/A	5,6	Merah	
	Total Sprinkler Publik	:			85				
	PARKIRAN	:	-	-	-	-	-	-	
BOX HIDRANT		:	Kaneda	IHB & OHB		N/A	N/A	Merah	
HYDRANT PILLAR			Kaneda	Short Two Way	1	N/A	N/A	Merah	
SEAMESE	1	:	Kaneda	Short Two Way	1	N/A	N/A	Merah	
PIPA	FF RISER	Ш	Spindo	Sch. 40		ļ			
	FF SETELAH PRV	$\sqcup$	Spindo	Medium		<b> </b>	ļ		
	R. POMPA		Kitz	Gate Valve					
VALVE	INSTALASI		Kitz	Gate Valve					
MCV			Viking	Class 20K HZ, 16K LZ					
BCV			Viking	Class 16k					
PRV			Singer	Pilot Operated					
	LIBERTY, LINCOLN & LEXINGTON		MERK	TYPE	JUMLAH	KAPASITAS (CMH)	DAYA (KW)		
Fan	PRESSURIZED		KRUGER	AXIAL ADJ. PITCH	6	27000 CFM	15	45576	2 PRESSURIZED untuk 1 tower, posisi di lantai roof
	EXHAUST JANITOR		KRUGER	AXIAL ADJ. PITCH	4	2000 CFM	1,1	3376	2 Exhaust untuk tower liberty & 2 Exhaust untuk tower lexington , posisi di lantai roof

		Nomor
□ JAYA CM	DATA TERNIS PROTER	Halaman
BIRO ENGINEERING	APARTMENT	Tanggal

VENTILATION & AIR CONDITION			MERK	TYPE	JUMLAH	KAPASITAS (Jumlah 1 Unit/ 1 Area)	SATUAN	DAYA	SATUAN	KETERAN	IGAN
Chiller		:	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Kapasitas Pompa Chiller		:	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
AHU/ FCU		:	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Cooling Tower		1:1	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
AC Unit Total	TOWER LIBERTY	:			JUMLAH AC TIAP UNIT	KAPASITAS AC					
	UNIT STUDIO										
	Bedroom		Daikin	Split Wall	1	9000	BTUH			AC	
	UNIT 1 BA									1656000	184 Type Stu
	Bedroom		Daikin	Split Wall	1	9000	BTUH			4086000	454 Type 1 B
	UNIT 1 BB			·						21150000	940 Type 2 B
	Bedroom		Daikin	Split Wall	1	9000	BTUH			4185000	155 Type 3 B
	UNIT 2 BA	$\Box$		,			-		1		71
	Living Room	1 1	Daikin	Split Wall	1	9000	BTUH			31.077.000,00 BTUH	
	Bedroom 1	$\dagger \dagger$	Daikin	Split Wall	1	9000	BTUH			3	
	Bedroom 2	+	Daikin	Split Wall	1	4500	BTUH	1			
	UNIT 2 BB	++	DaiMil	Opni wan		4000	2.011		1		
	Living Room	1-1	Daikin	Split Wall	1	9000	BTUH				
	Bedroom 1	1 1	Daikin	Split Wall	1	9000	BTUH				
		1		·	1	4500					
	Bedroom 2	1	Daikin	Split Wall	1	4500	BTUH				
	UNIT 2 BC	1	D 11:	0 15 147 11		0000	DTIIII				
	Living Room	1	Daikin	Split Wall	1	9000	BTUH				
	Bedroom 1	1	Daikin	Split Wall	1	9000	BTUH				
	Bedroom 2	1	Daikin	Split Wall	1	4500	BTUH				
	UNIT 2 BD										
	Living Room		Daikin	Split Wall	1	9000	BTUH				
	Bedroom 1		Daikin	Split Wall	1	9000	BTUH				
	Bedroom 2		Daikin	Split Wall	1	4500	BTUH				
	UNIT 3 BA										
	Living Room		Daikin	Split Wall	1	9000	BTUH				
	Bedroom 1		Daikin	Split Wall	1	9000	BTUH				
	Bedroom 2		Daikin	Split Wall	1	4500	BTUH				
	Bedroom 3		Daikin	Split Wall	1	4500	BTUH				
	UNIT 3 BB										
	Living Room		Daikin	Split Wall	1	9000	BTUH				
	Bedroom 1		Daikin	Split Wall	1	9000	BTUH				
	Bedroom 2	T	Daikin	Split Wall	1	4500	BTUH				
	Bedroom 3	T	Daikin	Split Wall	1	4500	BTUH				
	200.00 0	t	24				2.0				
	TOWER LINCOLN										
	UNIT STUDIO										
	Bedroom	Ш	Daikin	Split Wall	1	9000	BTUH				
	UNIT 1 BA	$\prod$									
	Bedroom		Daikin	Split Wall	1	9000	BTUH				
	UNIT 1 BB										
	Bedroom		-	-	-	-	-	-	-		
	UNIT 2 BA	T									
	Living Room	t	Daikin	Split Wall	1	9000	BTUH			1	

JAYA CM				DATA	TEKNIS PRO	YEK		Nomor
JATTA CAM				5,,,,				Halaman
BIRO ENG	BINEERING				APARTMENT			Tanggal
	Bedroom 1	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 2	Daikin	Split Wall	1	4500	BTUH		
	UNIT 2 BB							
	Living Room	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 1	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 2	Daikin	Split Wall	1	4500	BTUH		
	UNIT 2 BC							
	Living Room	Daikin	Split Wall	1	9000	BTUH		
AC Unit	Bedroom 1	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 2	Daikin	Split Wall	1	4500	BTUH		
	UNIT 2 BD							
	Living Room	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 1	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 2	Daikin	Split Wall	1	4500	BTUH		
	UNIT 3 BA							
	Living Room	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 1	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 2	Daikin	Split Wall	1	4500	BTUH		
	Bedroom 3	Daikin	Split Wall	1	4500	BTUH		
	UNIT 3 BB							
	Living Room	Daikin	Split Wall	-	-			
	Bedroom 1	Daikin	Split Wall	-	-			
	Bedroom 2	Daikin	Split Wall	-	-			
	Bedroom 3	Daikin	Split Wall	-	-			
	TOWER LEXINGTON UNIT STUDIO							
	Bedroom	Daikin	Split Wall	1	9000	BTUH		
	UNIT 1 BA							
	Bedroom	Daikin	Split Wall	1	9000	BTUH		
	UNIT 1 BB		·					
	Bedroom	Daikin	Split Wall	1	9000	BTUH		
	UNIT 2 BA		-					
	Living Room	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 1	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 2	Daikin	Split Wall	1	4500	BTUH		
	UNIT 2 BB							
	Living Room	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 1	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 2	Daikin	Split Wall	1	4500	BTUH		
	UNIT 2 BC							
	Living Room	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 1	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 2	Daikin	Split Wall	1	4500	BTUH		
	UNIT 2 BD							
	Living Room	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 1	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 2	Daikin	Split Wall	1	4500	BTUH		
	UNIT 3 BA							
	Living Room	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 1	Daikin	Split Wall	1	9000	BTUH		
	Bedroom 2	Daikin	Split Wall	1	4500	BTUH		

<b>□</b> JAYA CM				DAT	A TEKNIS PRO	/EK			Nom	or
<i>j</i> /11/1 0.11									Halaı	nan
BIRO ENGINEER	RING				APARTMENT				Tang	gal
	Bedroom 3	Daikin	Split Wall	1	4500	BTUH				
	UNIT 3 BB									
	Living Room	Daikin	Split Wall	1	9000	BTUH				
	Bedroom 1	Daikin	Split Wall	1	9000	BTUH				
	Bedroom 2	Daikin	Split Wall	1	4500	BTUH				
	Bedroom 3	Daikin	Split Wall	1	4500	BTUH				
	Total kapasitas AC 3BR				27.000					
AC Public Total					1.340.000					
	Lantai Dasar								TOTAL BTUH	
	Lift Lobby Liberty	Daikin	Split Duct	2	20.000	BTUH	2400	Watt	40000	
	Public Liberty	Daikin	Split Duct	1	100.000	BTUH	10600	Watt	100000	
	Lift Lobby Lincoln	Daikin	Split Duct	1	20.000	BTUH	2400	Watt	20000	
	Public Lincoln	Daikin	Split Duct	1	150.000	BTUH	16000	Watt	150000	
	Lift Lobby Lexington	Daikin	Split Duct	2	20.000	BTUH	2400	Watt	40000	
	Public Lexington	Daikin	Split Duct	1	150.000	BTUH	16000	Watt	150000	
	Lounge Lt.1	Daikin	Split Duct	4	150.000	BTUH	600000	Watt	600000	
	AC lobby BS - LGMP1	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	AC Lobby Lift P6A - P10A	Daikin	Ceiling Casette	16	15000	втин	2,4	KW	240000	
TOTAL AC + Unit					32.417.000	втин				
REFRIGERANT										
	IAF PARKIR :								Exhaust fan area parkir t mall.	dak ada, masuk sistem
Fan	EAF PARKIR :								Intake fan area parkir tida mall.	nk ada, masuk sistem
					CFM		Fconv			
	Toilet Unit 3BR	Kruger	Ceiling Mounted	-	100	-	1,688	168,8		
	CHWS	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
PIPA	CHWR	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	REFRIGERANT	Mueller	Non INTEGRATED	N/A	N/A	N/A	N/A	N/A		

□ JAYA CM				DATA TEKNIS PROYEK								Nomor Halaman	
BIRO ENGINEERING												Tanggal	
8 ELEVATOR & ESCALATOR				MERK	TYPE	JUMLAH	KAPASITAS (KG)	KAPASITAS (PERSON)	KECEPATAN (MPM)	DAYA (KW)	KETERANGAN		
	Low Zone Elevator		:										
		TOWER 1	:	MITSUBISHI	LP-LB-01, LP-LB-02, LP-LB-03, LP-LB-04	4	1.350	20	180	27.4 KW	LIBERTY / LIFT PENU	MPANG	
	High Zone Elevator	TOWER 2	:	MITSUBISHI	LP-LC-01, LP-LC-02, LP-LC-03	3	1.800	26	180	27.4 KW	LINCOLN / LIFT PENUMPANG		
		TOWER 3	:	MITSUBISHI	LP-LX-01, LP-LX-02, LP-LX-03, LP-LX-04	4	1.150	17	180	27.4 KW	LEXINGTON / LIFT PE	NUMPANG	
	Service Lift	TOWER 1	:	MITSUBISHI	LS-LB-01, LS-LB-02	2	1.350	120	120	26.3 KW	LIBERTY / LIFT SERVICE		
		TOWER 2	- :	MITSUBISHI	LS-LC-01	1	1350	120	120	26.3 KW	LINCOLN / LIFT SERV	ICE	
		TOWER 3	- :	MITSUBISHI	LS-LX-01, LS-LX-02	2	1350	120	120	26.3 KW	LEXINGTON / LIFT SE	RVICE	
Escalator		:	-	-	-	-	-	1	1				
	Kemiringan Escalator		:	-	-	-	-	-	i	1			
	Ketinggian Escalator		:	-	-	-	-	-	-	•			
	Travelator		_ :	-	-	-	-	-	-	-			
	Kemiringan Travelator		_ :	-	-	-	-	-	-	-			
	Ketinggian Travelator :		-	-	-	-	-	-	-				
9 GEN SET				MERK	TYPE	JUMLAH	KAPASITAS (KVA)	Total (KVA)					
	Gen Set		:	MITSUBISHI	-	3	1450	4350		Bila lebih dar	dari 1 type rinci masing-masing type dan jumlahnya		

MITSUBISHI