

# LAMPIRAN

# DAFTAR GAMBAR LISTRIK

NO.GAMBAR	NO.LEMBAR	JUDUL GAMBAR	SKALA
L-DG		DAFTAR GAMBAR LISTRIK	
		SKEDUL BEBAN LISTRIK	
EL-SB	1	RENCANA SKEDUL BEBAN SDP GEDUNG	NTS
EL-SB	2	RENCANA SKEDUL BEBAN SDP POMPA	1:200
EL-SB	3	RENCANA SKEDUL BEBAN LP SB, LP OL & PP ELEKTRONIK	1:200
EL-SB	4	RENCANA SKEDUL BEBAN LP D & PP D	1:200
EL-SB	5	RENCANA SKEDUL BEBAN LP 1 & PP 1	1:200
EL-SB	6	RENCANA SKEDUL BEBAN PP SERVER & PPAC 1	NTS
		DISTRIBUSI LISTRIK & TRAY KABEL	
EL-TRAY	1	DIAGRAM SKEMATIK DISTRIBUSI LISTRIK	NTS
EL-TRAY	2	RENCANA TRAY KABEL LANTAI SEMI BASEMENT	1:200
EL-TRAY	3	RENCANA TRAY KABEL LANTAI DASAR	1:200
EL-TRAY	4	RENCANA TRAY KABEL LANTAI 01	1:200
EL-TRAY	5	RENCANA TRAY KABEL LANTAI ATAP	1:200
EL-TRAY	6	STANDAR DETIL SOUND SYSTEM	NTS
		PENERANGAN	
EL-PEN	1	RENCANA PENERANGAN LANTAI SEMI BASEMENT	1:200
EL-PEN	2	RENCANA PENERANGAN LANTAI DASAR	1:200
EL-PEN	3	RENCANA PENERANGAN LANTAI 01	1:200
EL-PEN	4	STANDAR DETIL ELEKTRIKAL	NTS
		KOTAK KONTAK	
EL-KK	1	RENCANA KOTAK KONTAK LANTAI SEMI BASEMENT	1:200
EL-KK	2	RENCANA KOTAK KONTAK LANTAI DASAR	1:200
EL-KK	3	RENCANA KOTAK KONTAK LANTAI 01	1:200
EL-KK	4	RENCANA KOTAK KONTAK LANTAI ATAP	1:200
EL-KK	5	RENCANA UNDER FLOOR DUCT R.CBT	NTS
		PENYALUR PETIR	
EL-PP	1	DIAGRAM SKEMATIK PENYALUR PETIR	1:200
EL-PP	2	RENCANA GROUNDING LANTAI BASEMENT	1:200
EL-PP	3	RENCANA GROUNDING LANTAI DASAR	1:200
EL-PP	4	RADIUS PROTEKSI PENYALUR PETIR	NTS
EL-PP	5	STANDAR DETIL PENYALUR PETIR	NTS

NAMA BANGUNAN

**GEDUNG ADMISI UMY**



UNIVERSITAS MUHAMMADIYAH  
YOGYAKARTA

MENGETAHUI/ MENYETUJUI

Dr. Ir. GUNAWAN BUDIYANTO, M.P.  
REKTOR

PENANGGUNG JAWAB

SRI ATMAJA P. ROSYIDI, MSc.Eng., Ph.D.  
WAKIL REKTOR III

TIM PERENCANA  
UMY

	NAMA	PARAF
TIM LEADER	BAGUS S. ST., M.Eng	
ARSITEK	ARWAN S. ST., M.Sc	
STRUKTUR	YOGA A.H. ST., M.Eng	
MEKANIKAL ELEKTRIKAL	AGUS J. ST., M.Eng	
DIGAMBAR		

JUDUL GAMBAR	SKALA
DAFTAR GAMBAR LISTRIK	NTS

CATATAN/ KETERANGAN

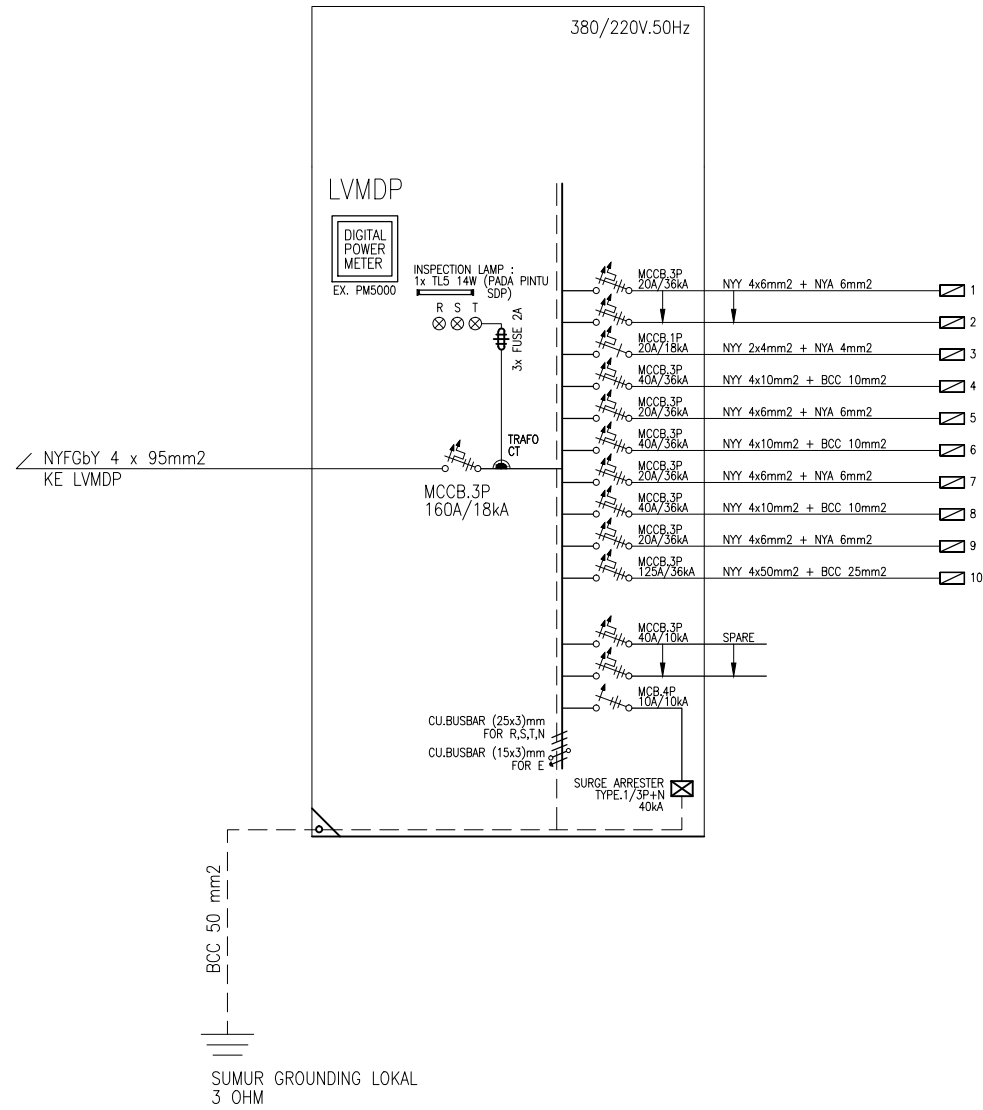
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REVISI

NO.	URAIAN	TANGGAL	PARAF

KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STDR L-DG	1	

SUB DISTRIBUTION PANEL  
GEDUNG (SDP.GEDUNG)  
FREE STANDING 1 CELL



SKEDUL BEBAN SDP GEDUNG

NO	PANEL / FUNGSI	LOKASI	BEBAN TERSAMBUNG					FK %	BEBAN NORMAL				
			(KVA)	(KW)	R	S	T		(KVA)	(KW)	R	S	T
1	SDP POMPA	LANTAI BASEMENT	11,2	7,9	13,2	15,7	13,0	0,7	8,3	5,8	9,8	13,5	9,7
2	LP.SB	LANTAI BASEMENT	1,3	1,1	2,8	2,4	0,6	0,7	0,9	0,7	2,0	1,7	0,4
3	LP.OL	LANTAI BASEMENT	0,4	0,4			1,7	0,7	0,3	0,3			1,2
4	PP.ELEKTRONIK	LANTAI BASEMENT	4,9	4,2	8,6	5,3	8,6	0,7	3,5	2,9	6,0	3,7	6,0
5	LP.D	LANTAI DASAR	2,2	1,9	2,8	3,5	3,9	0,7	1,6	1,3	2,0	2,4	2,7
6	PP.KK.D	LANTAI DASAR	6,1	5,2	9,6	9,1	9,1	0,7	4,3	3,6	6,7	6,4	6,4
7	LP.1	LANTAI 1	3,3	2,8	4,7	4,5	6,0	0,7	2,3	2,0	3,3	3,2	4,2
8	PP.KK.1	LANTAI 1	12,6	10,7	19,5	18,9	19,0	0,7	8,8	7,5	13,7	13,3	13,3
9	PP.SERVER	LANTAI 1	1,4	1,2	2,4	2,4	1,6	0,7	1,0	0,8	1,7	1,7	1,1
10	PPAC.1	LANTAI 1	68,1	48,2	105,9	105,9	97,8	0,7	47,7	33,7	74,1	74,1	68,5

111,6	83,6	169,5	167,7	161,1	78,6	58,8	119,2	119,9	113,4
KVA	KW	A	A	A	KVA	KW	A	A	A

**TOTAL BEBAN LISTRIK NORMAL**

TOTAL KVA	78,6
TOTAL KW	58,8

**BEBAN LISTRIK NORMAL**

S	P	R	S	T
78,6	58,8	119,2	119,9	113,4
KVA	KW	A	A	A

**RENCANA SKEDUL BEBAN SDP GEDUNG**  
SKALA : NTS

NAMA BANGUNAN

**GEDUNG ADMISI UMY**



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DIGAMBAR		

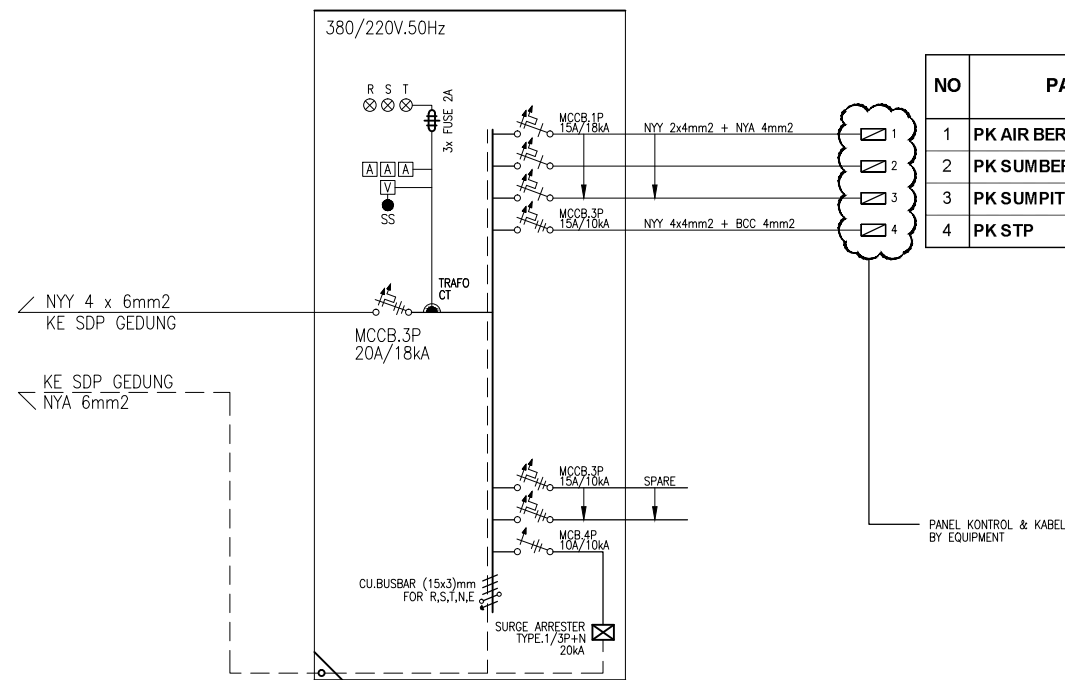
JUDUL GAMBAR	SKALA
RENCANA PENERANGAN LANTAI ATAP	1 : 200

CATATAN/ KETERANGAN

REVISI			
NO.	URAIAN	TANGGAL	PARAF

KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STDR EL-PEN	4	

SUB DISTRIBUTION PANEL POMPA  
(SDP.POMPA)  
UK: 60 x 80 x 25CM



SKEDUL BEBAN SDP POMPA

NO	PANEL	LOKASI	FUNGSI	BEBAN TERSAMBUNG					FK %	BEBAN NORMAL				
				(KVA)	(KW)	R	S	T		(KVA)	(KW)	R	S	T
1	PK AIR BERSIH	RUMAH POMPA	POWER POMPA TRANSFER AIR BERSIH	1.6	1.1	2.4			0.5	0.8	0.6	1.2		
2	PK SUMBERSIBLE PUMP	RUMAH POMPA	POWER POMPA KURAS GWT	1.1	0.75		4.9		1.0	1.1	0.8		4.9	
3	PK SUMPIT AH	RUMAH POMPA	POWER POMPA SUMPIT AIR HUJAN	1.4	1.0			2.2	0.5	0.7	0.5			1.1
4	PK STP	RUMAH POMPA	POWER STP	7.1	5.0	10.8	10.8	10.8	0.8	5.7	4.0	8.7	8.7	8.7

<b>11.2</b>	<b>7.9</b>	<b>13.2</b>	<b>15.7</b>	<b>13.0</b>		<b>8.3</b>	<b>5.8</b>	<b>9.8</b>	<b>13.5</b>	<b>9.7</b>
<b>KVA</b>	<b>KW</b>	<b>A</b>	<b>A</b>	<b>A</b>		<b>KVA</b>	<b>KW</b>	<b>A</b>	<b>A</b>	<b>A</b>

TOTAL BEBAN LISTRIK NORMAL

TOTAL KVA	<b>8.3</b>
TOTAL KW	<b>5.8</b>

**RENCANA SKEDUL BEBAN SDP POMPA**  
SKALA : NTS

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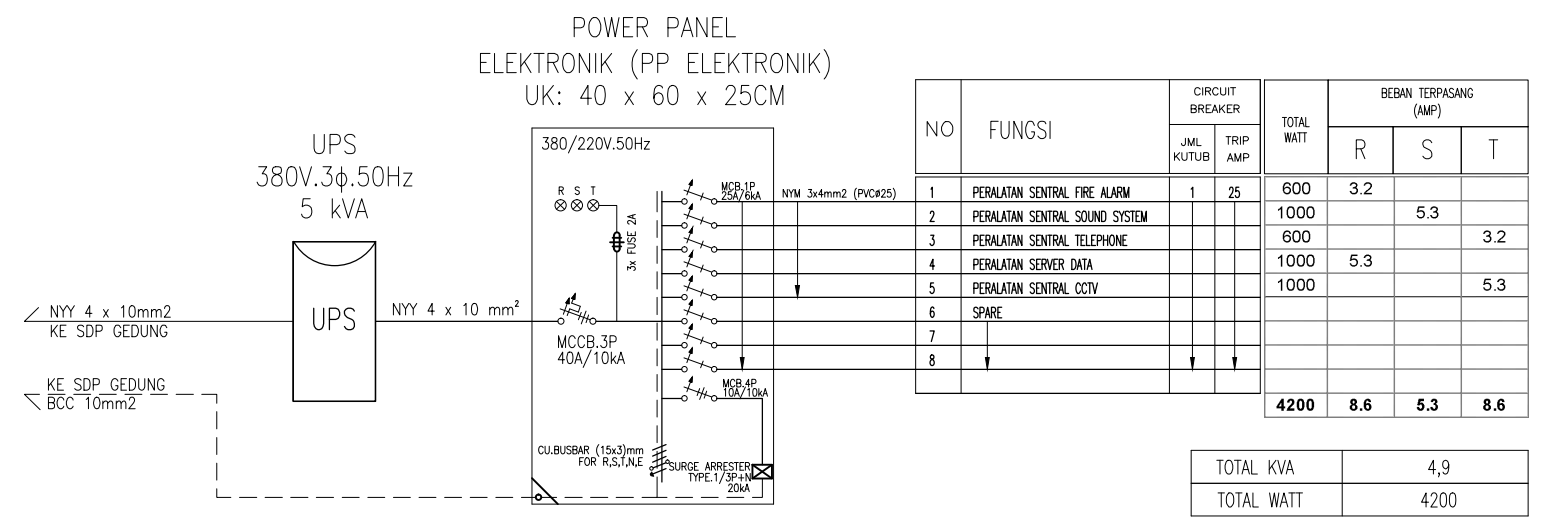
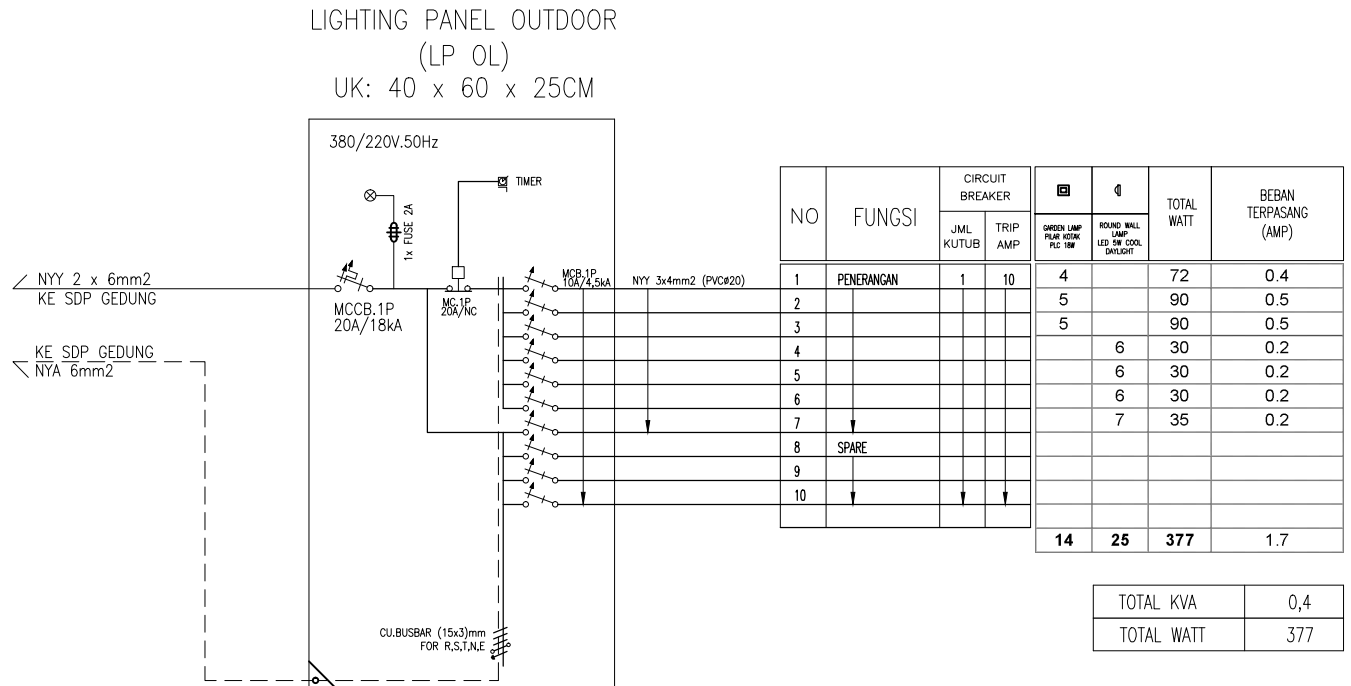
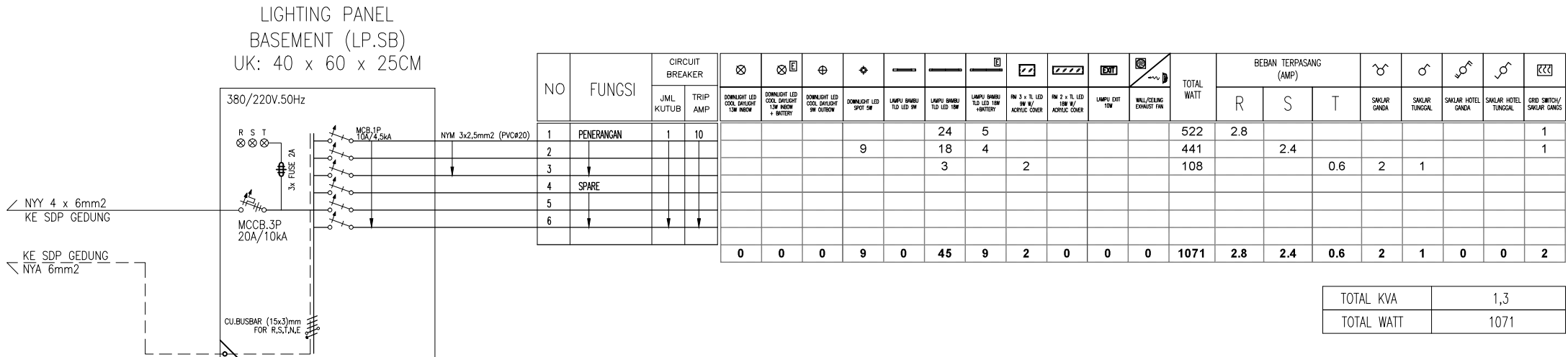
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MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng	
DIGAMBAR		

JUDUL GAMBAR	SKALA
RENCANA PENERANGAN LANTAI ATAP	1 : 200

CATATAN/ KETERANGAN

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NO.	URAIAN	TANGGAL	PARAF

KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STDR EL-PEN	4	



**RENCANA SKEDUL BEBAN LP.SB, LP.OL & PP ELEKTRONIK**  
SKALA : NTS

NAMA BANGUNAN  
**GEDUNG ADMISI UMY**

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JUDUL GAMBAR	SKALA
RENCANA PENERANGAN LANTAI ATAP	1 : 200

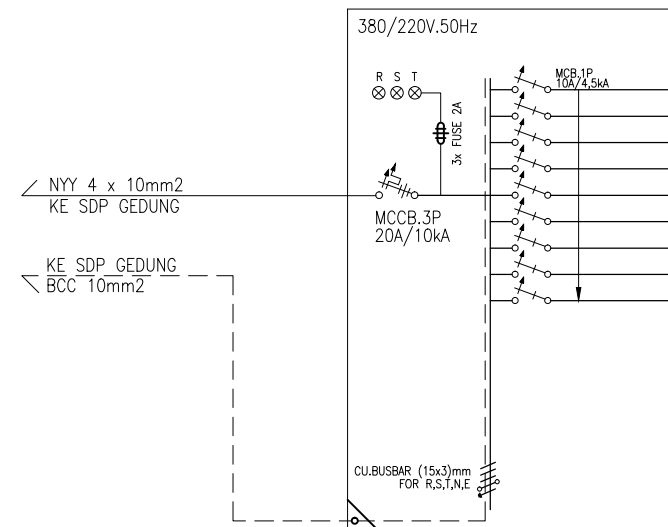
CATATAN/ KETERANGAN

REVISI

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KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STDR		
EL-PEN	4	

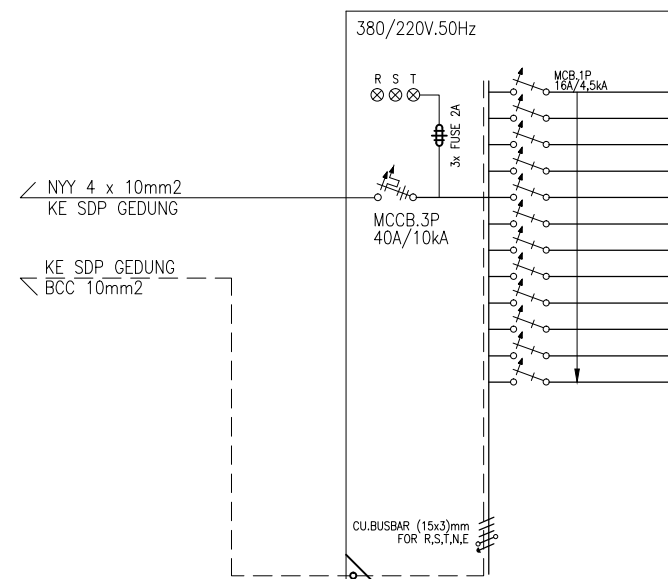
LIGHTING PANEL  
LANTAI DASAR (LP.D)  
UK: 40 x 60 x 25CM



NO	FUNGSI	CIRCUIT BREAKER		☒	☒	⊕	◆	—	—	—	☑	▨	EAT	☒	TOTAL WATT	BEBAN TERPASANG (AMP)			☐	☐	☐	☐	☐	
		JML KUTUB	TRIP AMP													R	S	T						
1	PENERANGAN	1	10	24	1										325	1.7								1
2				10		6		1	1						202	1.1			3	2			1	
3				29	2		3								418			2.2						1
4				4											52		0.3		1					
5				42	4										598		3.2							1
6				17			6				2				305			1.6	5	1				1
7	SPARE																							
8																								
9																								
				126	7	6	9	1	1	0	2	0	0	0	1900	2.8	3.5	3.9	9	3	0	1	4	

TOTAL KVA	2,2
TOTAL WATT	1900

POWER PANEL  
LANTAI DASAR (PP.D)  
UK: 50 x 70 x 25CM



NO	FUNGSI	CIRCUIT BREAKER		☐	☐	☐	TOTAL WATT	BEBAN TERPASANG (AMP)		
		JML KUTUB	TRIP AMP					R	S	T
1	KOTAK KONTAK	1	10	6			600	3.2		
2				7			700		3.7	
3					7		700			3.7
4				7			700	3.7		
5				4			400		2.1	
6				5			500	2.7		
7				3	4		700			3.7
8				6			600		3.2	
9				3			300			1.6
10	SPARE									
11										
12										
				41	11	0	5200	9.6	9.1	9.1

TOTAL KVA	6,1
TOTAL WATT	5200

RENCANA SKEDUL BEBAN LP.D & PP.D  
SKALA : NTS

NAMA BANGUNAN

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DIGAMBAR		

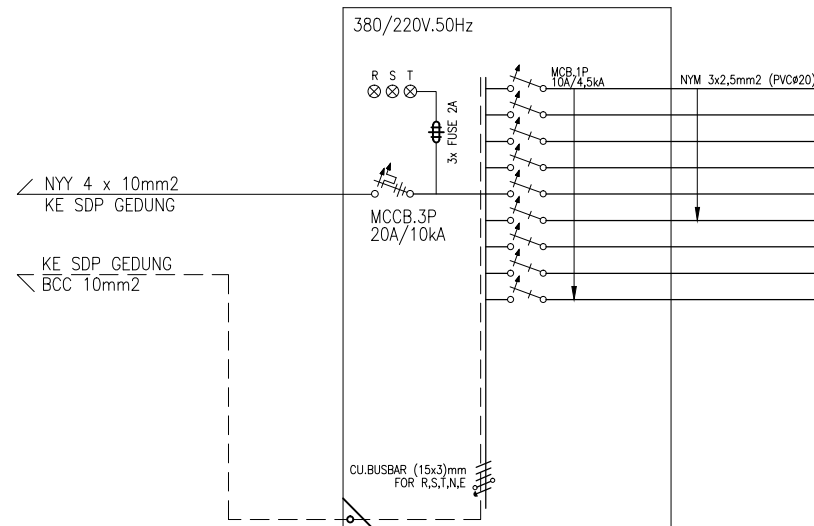
JUDUL GAMBAR	SKALA
RENCANA PENERANGAN LANTAI ATAP	1 : 200

CATATAN/ KETERANGAN

REVISI			
NO.	URAIAN	TANGGAL	PARAF

KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STDR EL-PEN	4	

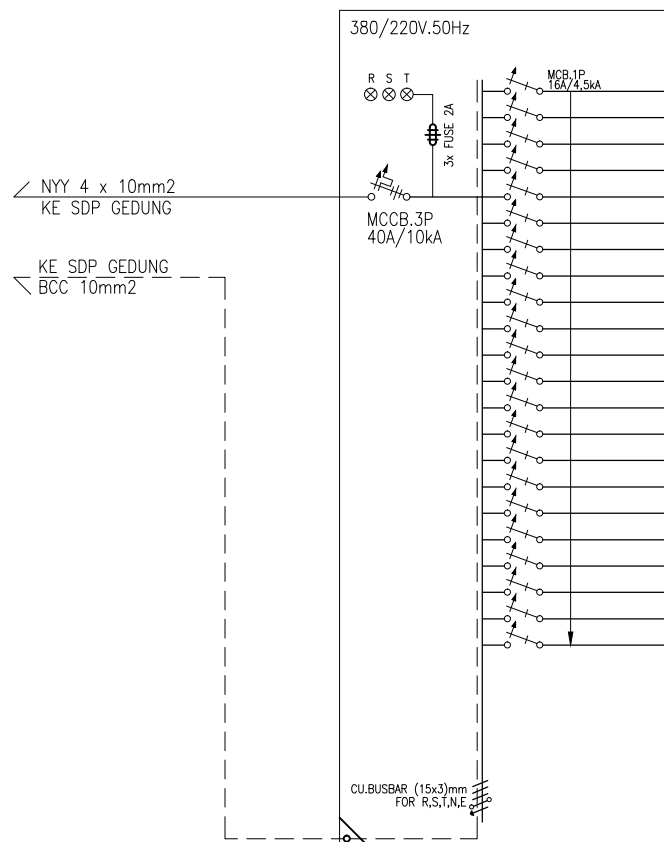
LIGHTING PANEL  
LANTAI 1 (LP.1)  
UK: 40 x 60 x 25CM



NO	FUNGSI	CIRCUIT BREAKER		LEGENDA												TOTAL WATT	BEBAN TERPASANG (AMP)			SALURAN					
		JML KUTUB	TRIP AMP	DOWNLIGHT LED COOL DOWNLIGHT 13W INDOOR	DOWNLIGHT LED COOL DOWNLIGHT 13W INDOOR + BATTERY	DOWNLIGHT LED COOL DOWNLIGHT 9W OUTDOOR	DOWNLIGHT LED SPOT SW	LAMPU BAMBUI TLD LED 9W	LAMPU BAMBUI TLD LED 18W	LAMPU BAMBUI TLD LED 18W + BATTERY	RM 3 x 1/2, LED RM R/L ACRYLIC COVER	RM 2 x 1/2, LED RM R/L ACRYLIC COVER	LAMPU EXIT 10W	WALL/CEILING EXHAUST FAN	R		S	T	SAKLAR GANDA	SAKLAR TUNGGAL	SAKLAR HOTEL GANDA	SAKLAR HOTEL TUNGGAL	GRID SWITCH/SAKLAR GANES		
1	PENERANGAN	1	10	7	1												563	3.0			7				
2									1	1							163		0.9		3	3			
3				21	3												312	1.7			2			1	
4																	720			3.9	2				
5																	684		3.7		2				
6									4	18	4						396			2.1	1	1			1
7	SPARE																								
8																									
9																									
				35	4	6	0	5	19	4	17	39	0	0		2838	4.7	4.5	6.0	17	4	0	1	1	

TOTAL KVA	3,3
TOTAL WATT	2838

POWER PANEL KOTAK KONTAK  
LANTAI 1 (PP.KK.1)  
UK: 50 x 70 x 25CM



NO	FUNGSI	CIRCUIT BREAKER		LEGENDA			TOTAL WATT	BEBAN TERPASANG (AMP)		
		JML KUTUB	TRIP AMP	KOTAK KONTAK SWING	KOTAK KONTAK LAIN	KOTAK KONTAK PROTEKTOR		R	S	T
1	KOTAK KONTAK	1	10	5			500	2.7		
2				7			700		3.7	
3				5			500			2.7
4				4			400	2.1		
5				3			300		1.6	
6				4			400			2.1
7				2			200		1.1	
8					7		700	3.7		
9					7		700			3.7
10					7		700	3.7		
11					4		400		2.1	
12				4		1	750			4.0
13				4		1	750	4.0		
14					6		600		3.2	
15					7		700			3.7
16					6		600	3.2		
17					6		600		3.2	
18					5		500			2.7
19	PK BOOSTER PUMP						740		4.0	
20	SPARE									
21										
22										
				5	19	0	10740	19.5	18.9	19.0

TOTAL KVA	12,6
TOTAL WATT	10740

**RENCANA SKEDUL BEBAN LP.1 & PP.1**  
SKALA : NTS

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DIGAMBAR		

JUDUL GAMBAR

SKALA

RENCANA PENERANGAN LANTAI ATAP	1 : 200
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NO.	URAIAN	TANGGAL	PARAF

KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STDR		
EL-PEN	4	

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JUDUL GAMBAR	SKALA
RENCANA PENERANGAN LANTAI ATAP	1 : 200

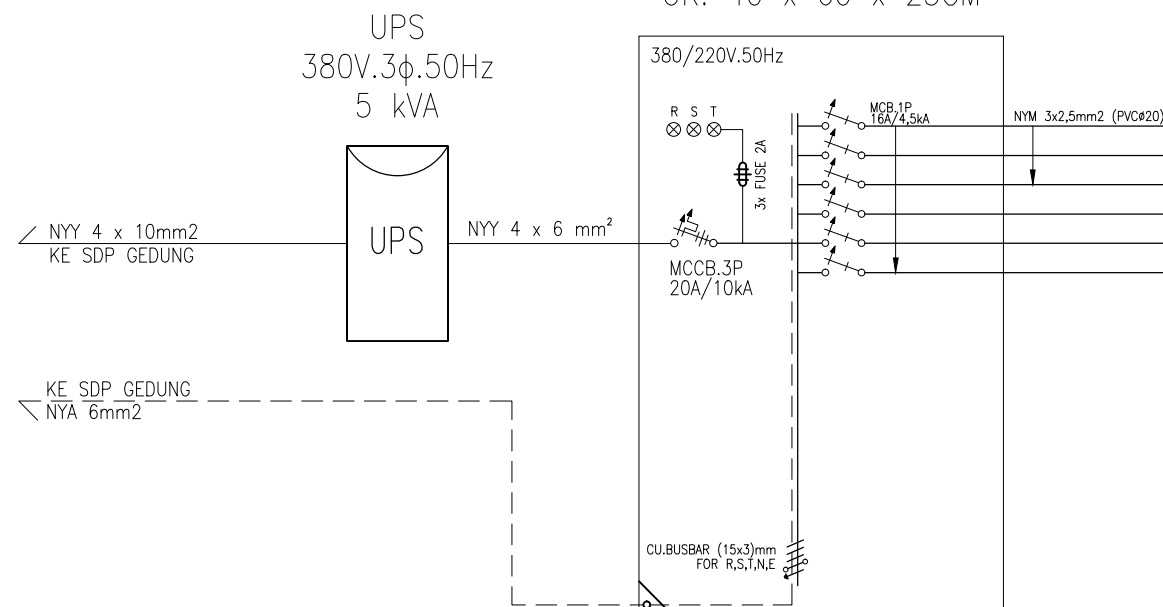
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UMY_ADM_STDR EL-PEN	4	

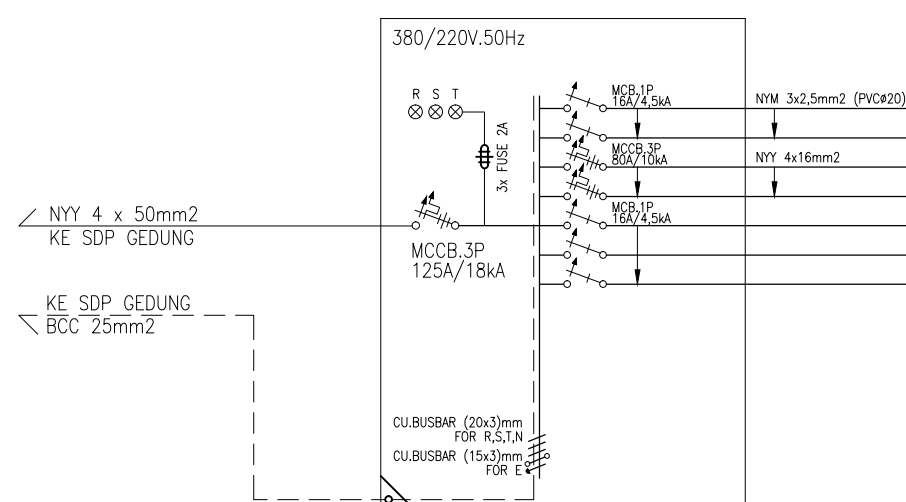
**POWER PANEL  
SERVER (PP.SERVER)  
UK: 40 x 60 x 25CM**



NO	FUNGSI	CIRCUIT BREAKER		KODAK KONTAK DINING	TOTAL WATT	BEBAN TERPASANG (AMP)		
		JML KUTUB	TRIP AMP			R	S	T
1	KOTAK KONTAK	1	10	3	450	2.4		
2					450		2.4	
3					300			1.6
4	SPARE							
5								
6								
<b>8</b>					<b>1200</b>	<b>2.4</b>	<b>2.4</b>	<b>1.6</b>

TOTAL KVA	1,4
TOTAL WATT	1200

**POWER PANEL AC  
LANTAI 1 (PPAC.1)  
UK: 50 x 70 x 25CM**



NO	FUNGSI	CIRCUIT BREAKER		KODAK KONTAK DINING	TOTAL WATT	BEBAN TERPASANG (AMP)		
		JML KUTUB	TRIP AMP			R	S	T
1	KOTAK KONTAK	1	10	10	1500	8.0		
2					1500		8.0	
3	OU.D (251.000 BTU/H)				19900	43.1	43.1	43.1
4	OU.D (324.000 BTU/H)				25300	54.8	54.8	54.8
5	SPARE							
6								
7								
<b>25</b>					<b>48200</b>	<b>105.9</b>	<b>105.9</b>	<b>97.8</b>

TOTAL KVA	68,1
TOTAL WATT	48200

**RENCANA SKEDUL BEBAN PP.SERVER & PPAC.1**  
SKALA : NTS



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DIGAMBAR		

JUDUL GAMBAR

DIAGRAM SKEMATIK DISTRIBUSI LISTRIK	SKALA  NTS
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CATATAN/ KETERANGAN

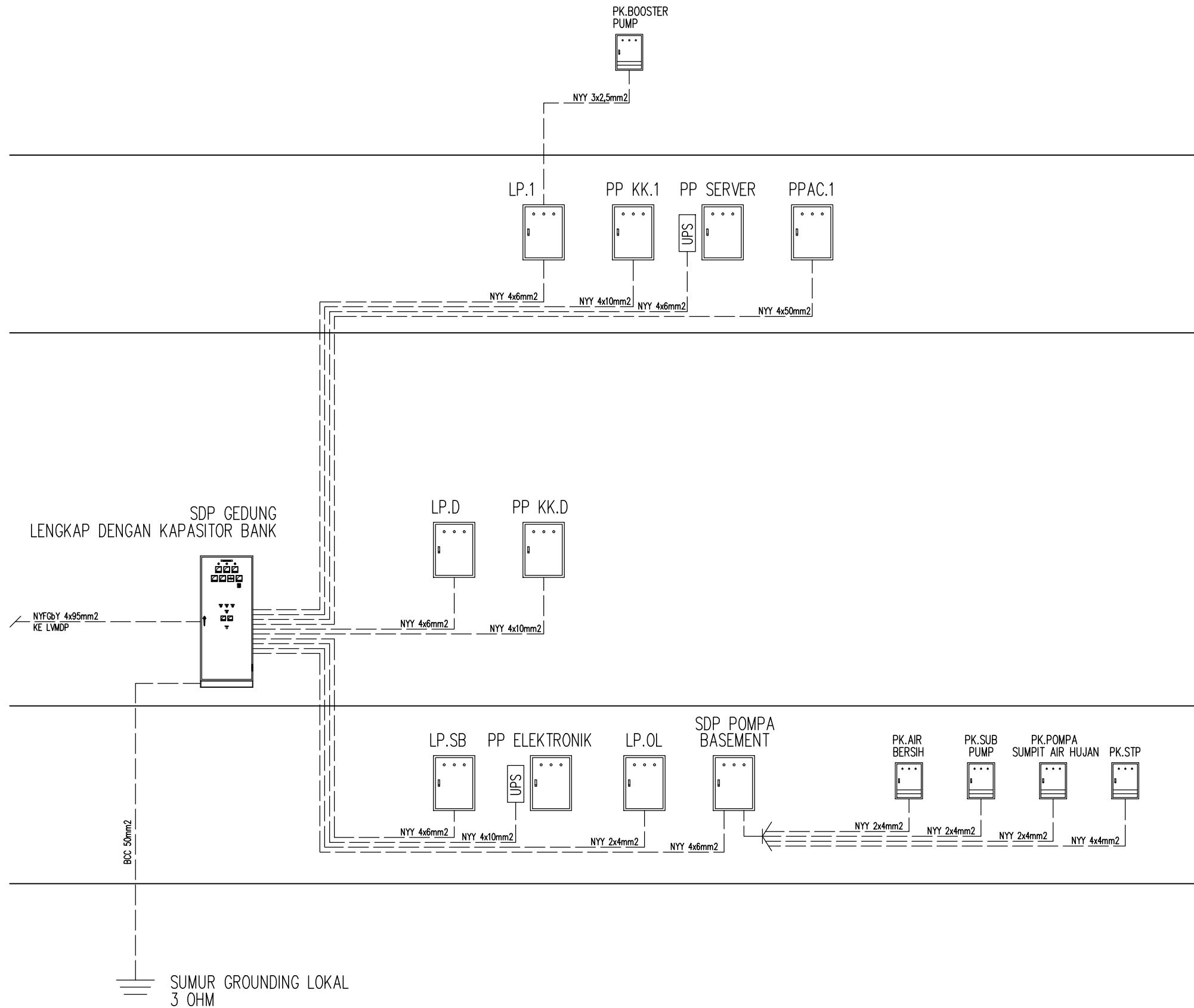
REVISI			
NO.	URAIAN	TANGGAL	PARAF
KODE GAMBAR		NO. GAMBAR	JML. LEMBAR
EL-TRAY		1	

LANTAI ATAP

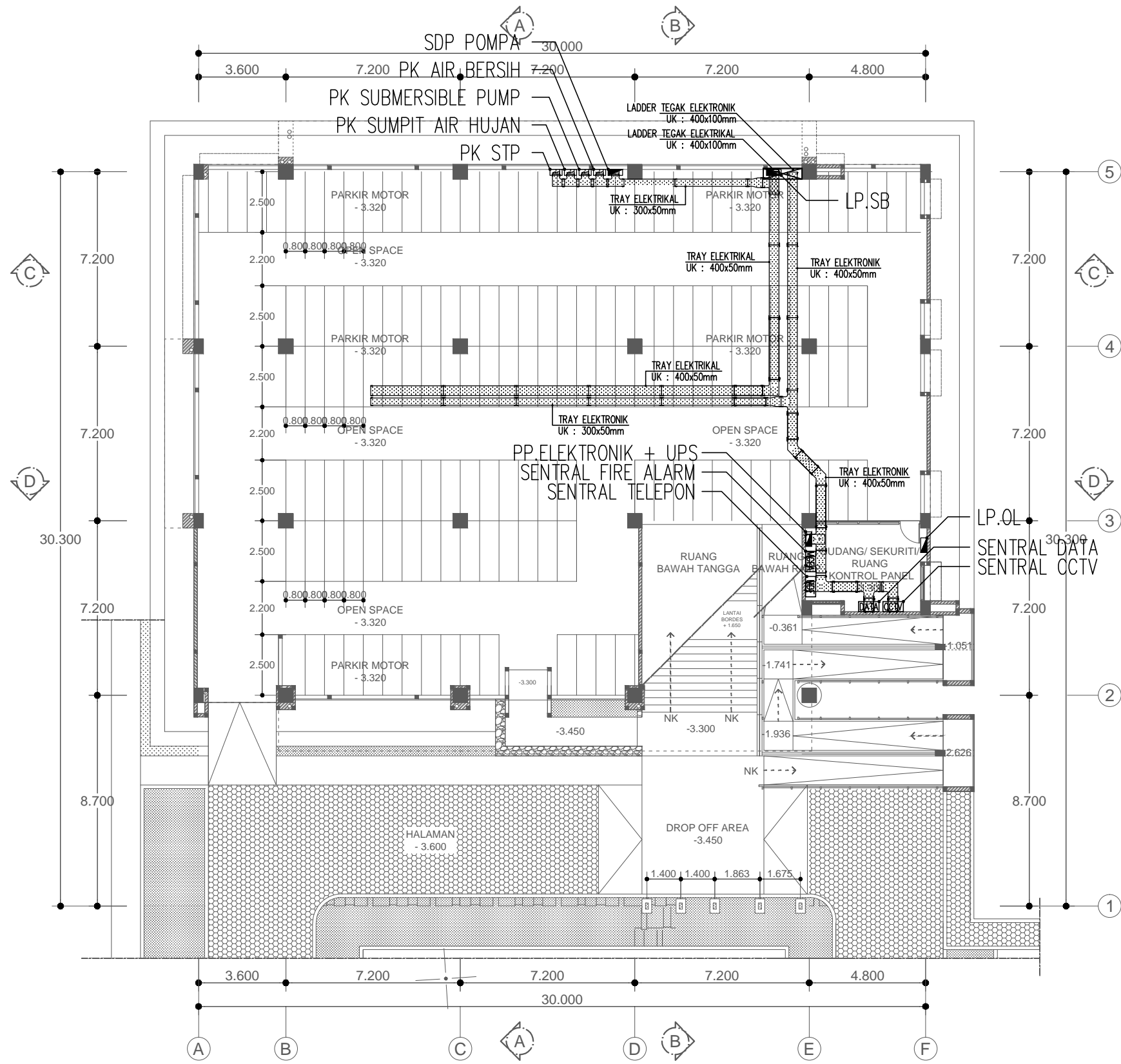
LANTAI 1

LANTAI DASAR


LT.SEMI BASEMENT

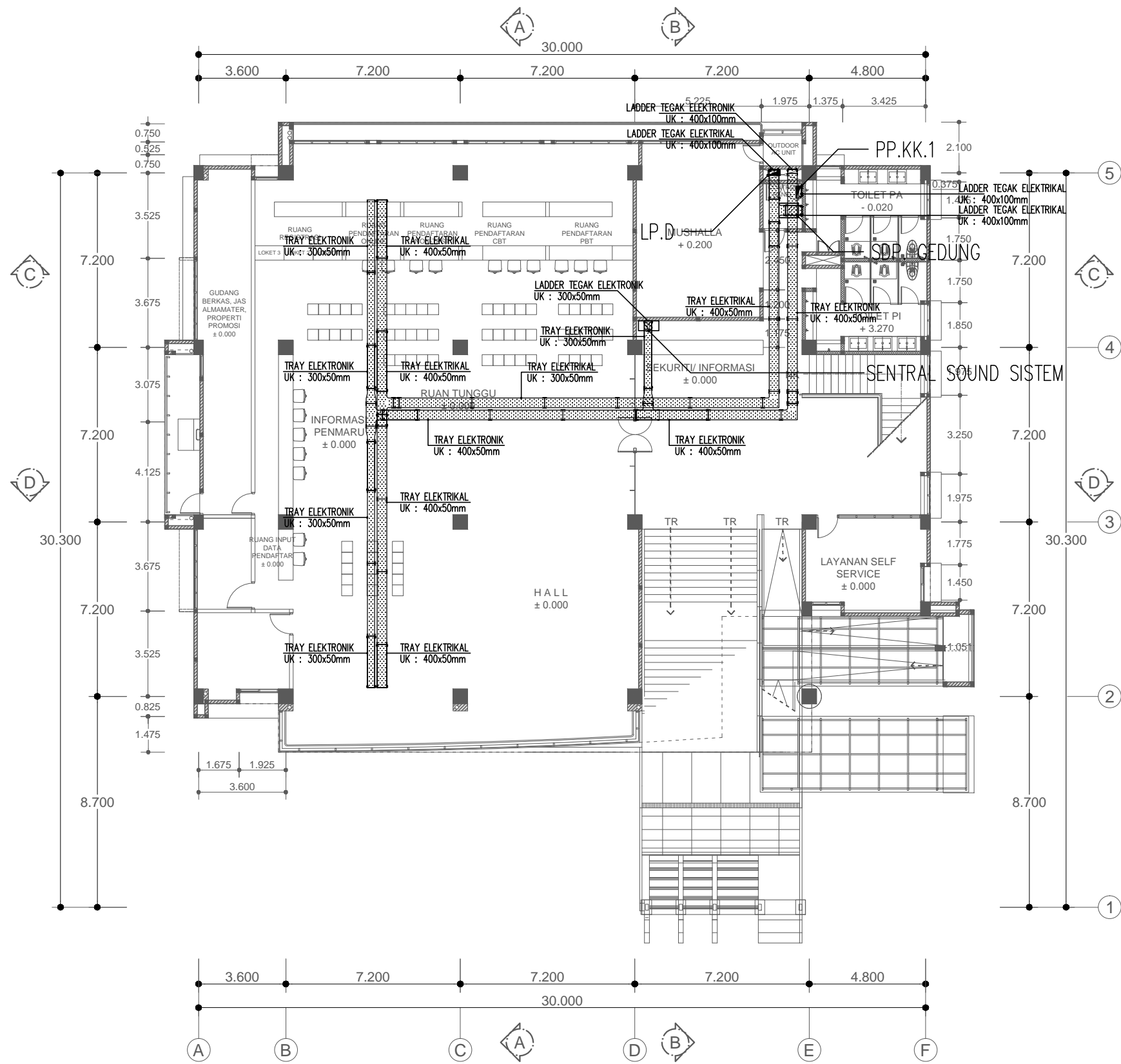


**DIAGRAM SKEMATIK DISTRIBUSI LISTRIK**  
SKALA : NTS




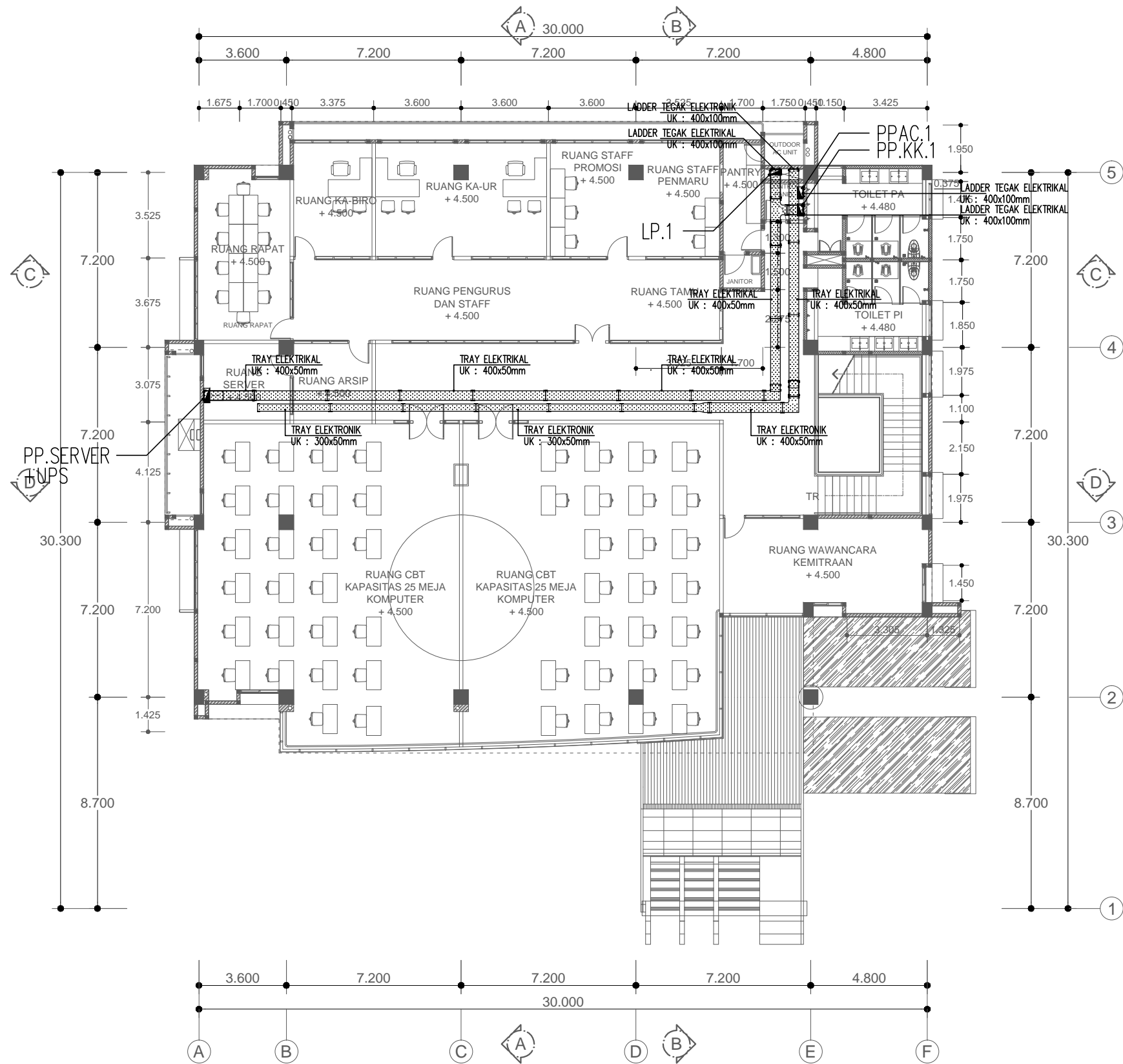
**RENCANA TRAY KABEL SEMI BASEMENT**  
 SKALA 1 : 200

NAMA BANGUNAN			
<b>GEDUNG ADMISI UMY</b>			
			
UNIVERSITAS MUHAMMADIYAH YOGYAKARTA			
MENGETAHUI/ MENYETUJUI			
Dr. Ir. GUNAWAN BUDIYANTO, M.P. REKTOR			
PENANGGUNG JAWAB			
SRI ATMAJA P. ROSYIDI, MSc.Eng., Ph.D. WAKIL REKTOR III			
TIM PERENCANA UMY			
	NAMA	PARAF	
TIM LEADER	BAGUS S. ST., M.Eng		
ARSITEK	ARWAN S. ST., M.Sc		
STRUKTUR	YOGA A.H. ST., M.Eng		
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng		
DIGAMBAR			
JUDUL GAMBAR		SKALA	
RENCANA TRAY KABEL LANTAI BASEMENT		1 : 200	
CATATAN/ KETERANGAN			
REVISI			
NO.	URAIAN	TANGGAL	PARAF
KODE GAMBAR	NO. GAMBAR	JML. LEMBAR	
EL-TRAY	2		



**RENCANA TRAY KABEL LANTAI DASAR**  
SKALA 1 : 200

NAMA BANGUNAN			
<b>GEDUNG ADMISI UMY</b>			
			
UNIVERSITAS MUHAMMADIYAH YOGYAKARTA			
MENGETAHUI/ MENYETUJUI			
Dr. Ir. GUNAWAN BUDIYANTO, M.P. REKTOR			
PENANGGUNG JAWAB			
SRI ATMAJA P. ROSYIDI, M.Sc. Eng., Ph.D. WAKIL REKTOR III			
TIM PERENCANA UMY			
	NAMA	PARAF	
TIM LEADER	BAGUS S. ST., M.Eng		
ARSITEK	ARWAN S. ST., M.Sc		
STRUKTUR	YOGA A.H. ST., M.Eng		
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng		
DIGAMBAR			
JUDUL GAMBAR		SKALA	
RENCANA TRAY KABEL LANTAI DASAR		1 : 200	
CATATAN/ KETERANGAN			
REVISI			
NO.	URAIAN	TANGGAL	PARAF
KODE GAMBAR	NO. GAMBAR	JML. LEMBAR	
EL-TRAY	3		



**RENCANA TRAY KABEL LANTAI 01**  
 SKALA 1 : 200

NAMA BANGUNAN

**GEDUNG ADMISI UMY**



UNIVERSITAS MUHAMMADIYAH  
 YOGYAKARTA

MENGETAHUI/ MENSETUJUI

Dr. Ir. GUNAWAN BUDIYANTO, M.P.  
 REKTOR

PENANGGUNG JAWAB

SRI ATMAJA P. ROSYIDI, M.Sc. Eng., Ph.D.  
 WAKIL REKTOR III

TIM PERENCANA  
 UMY

	NAMA	PARAF
TIM LEADER	BAGUS S. ST., M.Eng	
ARSITEK	ARWAN S. ST., M.Sc	
STRUKTUR	YOGA A.H. ST., M.Eng	
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng	
DIGAMBAR		

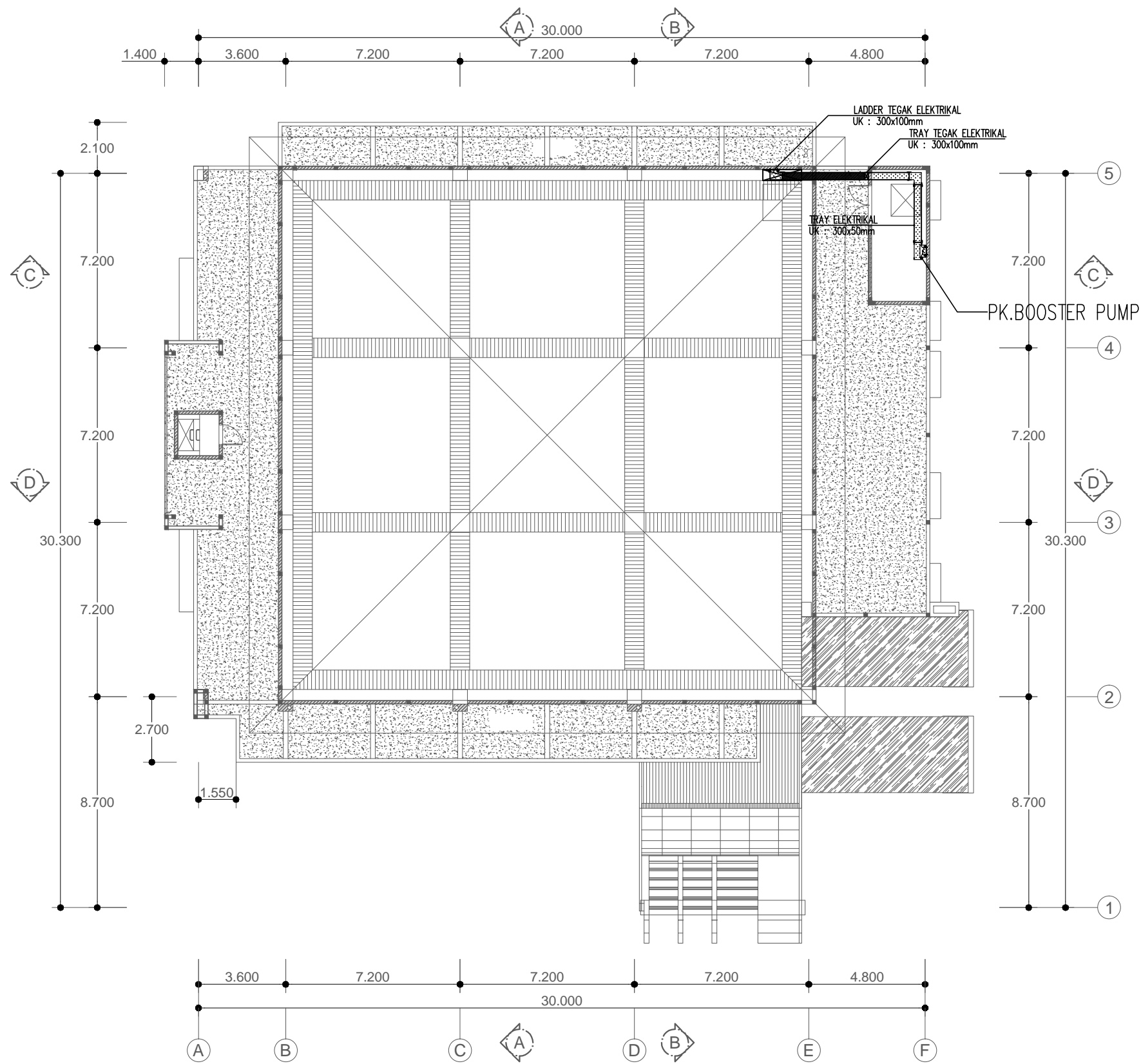
JUDUL GAMBAR

RENCANA TRAY KABEL LANTAI 01	SKALA 1 : 200
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CATATAN/ KETERANGAN

REVISI			
NO.	URAIAN	TANGGAL	PARAF

KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
EL-TRAY	4	



**RENCANA TRAY KABEL LANTAI ATAP**  
SKALA 1 : 200

NAMA BANGUNAN

**GEDUNG ADMISI UMY**



UNIVERSITAS MUHAMMADIYAH  
YOGYAKARTA

MENGETAHUI/ MENYETUJUI

Dr. Ir. GUNAWAN BUDIYANTO, M.P.  
REKTOR

PENANGGUNG JAWAB

SRI ATMAJA P. ROSYIDI, M.Sc. Eng., Ph.D.  
WAKIL REKTOR III

TIM PERENCANA  
UMY

	NAMA	PARAF
TIM LEADER	BAGUS S. ST., M.Eng	
ARSITEK	ARWAN S. ST., M.Sc	
STRUKTUR	YOGA A.H. ST., M.Eng	
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng	
DIGAMBAR		

JUDUL GAMBAR	SKALA
RENCANA TRAY KABEL LANTAI ATAP	1 : 200

CATATAN/ KETERANGAN

REVISI			
NO.	URAIAN	TANGGAL	PARAF

KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
EL-TRAY	5	



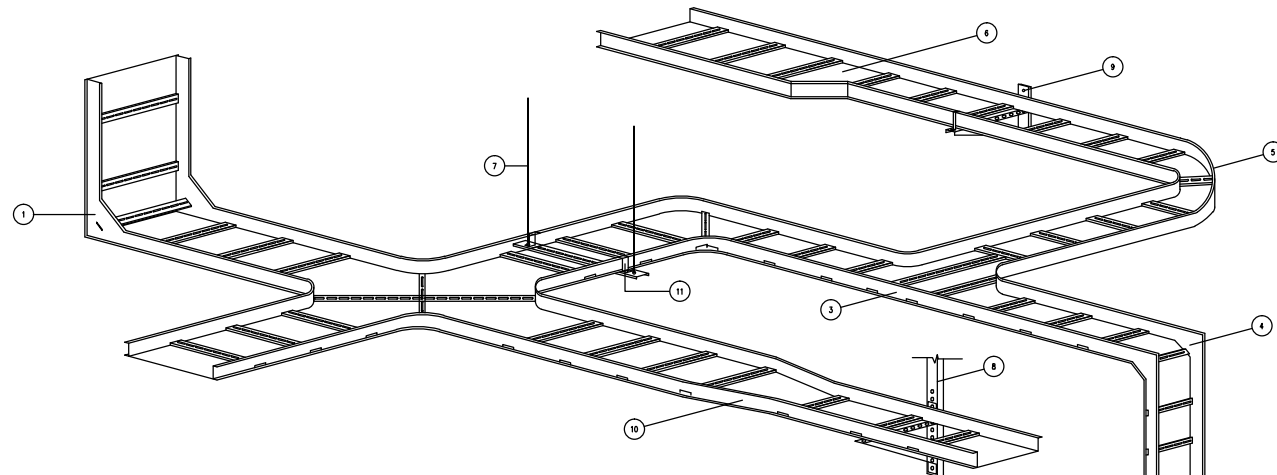
	NAMA	PARAF
TIM LEADER	BAGUS S. ST., M.Eng	
ARSITEK	ARWAN S. ST., M.Sc	
STRUKTUR	YOGA A.H. ST., M.Eng	
MEKANIKAL	Ir. AGUS JAMAL, M.Eng	
ELEKTRIKAL		
DIGAMBAR		

JUDUL GAMBAR	SKALA
STANDAR DETIL TRAY KABEL	NTS

CATATAN/ KETERANGAN

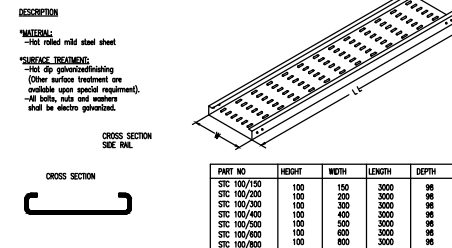
REVISI			
NO.	URAIAN	TANGGAL	PARAF
KODE GAMBAR	NO. GAMBAR	JML. LEMBAR	
EL-TRAY	6		

CABLE LADDER SYSTEM

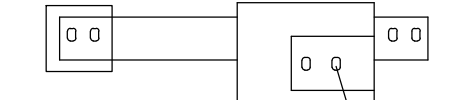


ITEM NO.	DESCRIPTION
1	Inside Riser
2	Cross
3	Tee
4	Outside Riser
5	Horizontal Elbow
6	Offset Reducer=Right/Left
7	Hanger Rod
8	Support Bracket
9	Centilever Arm
10	Straight Reducer
11	Hold Down Clip

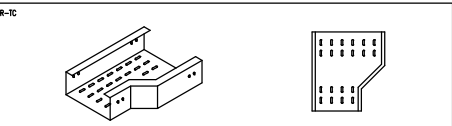
TYPE STC



PART NO	HEIGHT	WIDTH	LENGTH	DEPTH
STC 100/150	100	150	3000	98
STC 100/200	100	200	3000	98
STC 100/300	100	300	3000	98
STC 100/400	100	400	3000	98
STC 100/500	100	500	3000	98
STC 100/600	100	600	3000	98
STC 100/800	100	800	3000	98
STC 100/900	100	900	3000	98

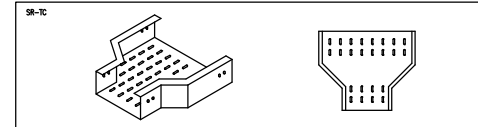


STRAIGHT REDUCER TYPE TRAY



PART NO	HEIGHT	W1	W2	DEPTH
SR-TC 100/300/150	100	300	150	98
SR-TC 100/450/150	100	450	150	98
SR-TC 100/600/150	100	600	150	98
SR-TC 100/750/150	100	750	150	98
SR-TC 100/900/150	100	900	150	98

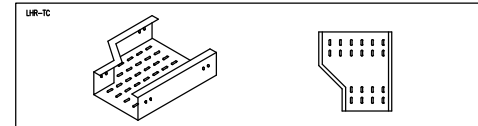
STRAIGHT REDUCER TYPE TRAY



PART NO	HEIGHT	W1	W2	DEPTH
SR-TC 100/300/150	100	300	150	98
SR-TC 100/450/150	100	450	150	98
SR-TC 100/600/150	100	600	150	98
SR-TC 100/750/150	100	750	150	98
SR-TC 100/900/150	100	900	150	98

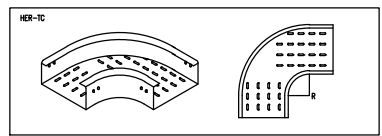


STRAIGHT REDUCER TYPE TRAY



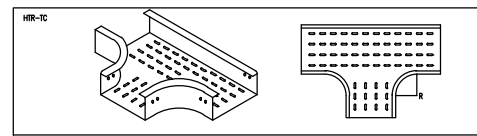
PART NO	HEIGHT	W1	W2	DEPTH
SR-TC 100/300/150	100	300	150	98
SR-TC 100/450/150	100	450	150	98
SR-TC 100/600/150	100	600	150	98
SR-TC 100/750/150	100	750	150	98
SR-TC 100/900/150	100	900	150	98

HORIZONTAL ELBOW TYPE TRAY



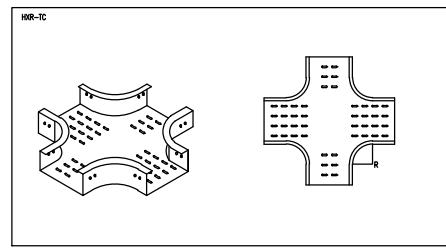
PART NO	HEIGHT	WIDTH	RADIUS	DEPTH
HER-TC 100/150	100	150	98	98
HER-TC 100/200	100	200	98	98
HER-TC 100/300	100	300	98	98
HER-TC 100/400	100	400	300-600	98
HER-TC 100/500	100	500	98	98
HER-TC 100/600	100	600	98	98
HER-TC 100/800	100	800	98	98

HORIZONTAL TEE TYPE TRAY



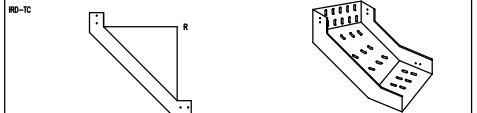
PART NO	HEIGHT	WIDTH	RADIUS	DEPTH
HTR-TC 100/150	100	150	98	98
HTR-TC 100/200	100	200	98	98
HTR-TC 100/300	100	300	98	98
HTR-TC 100/400	100	400	300-600	98
HTR-TC 100/500	100	500	98	98
HTR-TC 100/600	100	600	98	98
HTR-TC 100/800	100	800	98	98

HORIZONTAL CROSS TYPE TRAY

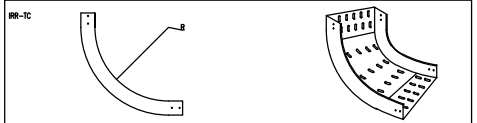


PART NO	HEIGHT	WIDTH	RADIUS	DEPTH
HCR-TC 100/150	100	150	98	98
HCR-TC 100/200	100	200	98	98
HCR-TC 100/300	100	300	98	98
HCR-TC 100/400	100	400	300-600	98
HCR-TC 100/500	100	500	98	98
HCR-TC 100/600	100	600	98	98
HCR-TC 100/800	100	800	98	98

VERTICAL INSIDE RISER TYPE TRAY

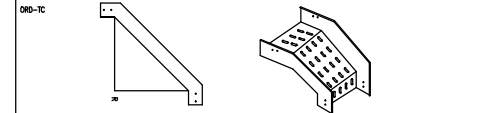


PART NO	HEIGHT	WIDTH	LENGTH	DEPTH
IRD-LU 100/150	100	150	98	98
IRD-LU 100/200	100	200	98	98
IRD-LU 100/300	100	300	98	98
IRD-LU 100/400	100	400	300-600	98
IRD-LU 100/500	100	500	98	98
IRD-LU 100/600	100	600	98	98
IRD-LU 100/800	100	800	98	98

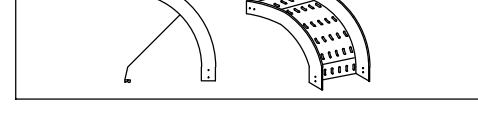


PART NO	HEIGHT	WIDTH	RADIUS	DEPTH
IRD-LU 100/150	100	150	98	98
IRD-LU 100/200	100	200	98	98
IRD-LU 100/300	100	300	98	98
IRD-LU 100/400	100	400	300-600	98
IRD-LU 100/500	100	500	98	98
IRD-LU 100/600	100	600	98	98
IRD-LU 100/800	100	800	98	98

VERTICAL OUTSIDE RISER TYPE TRAY

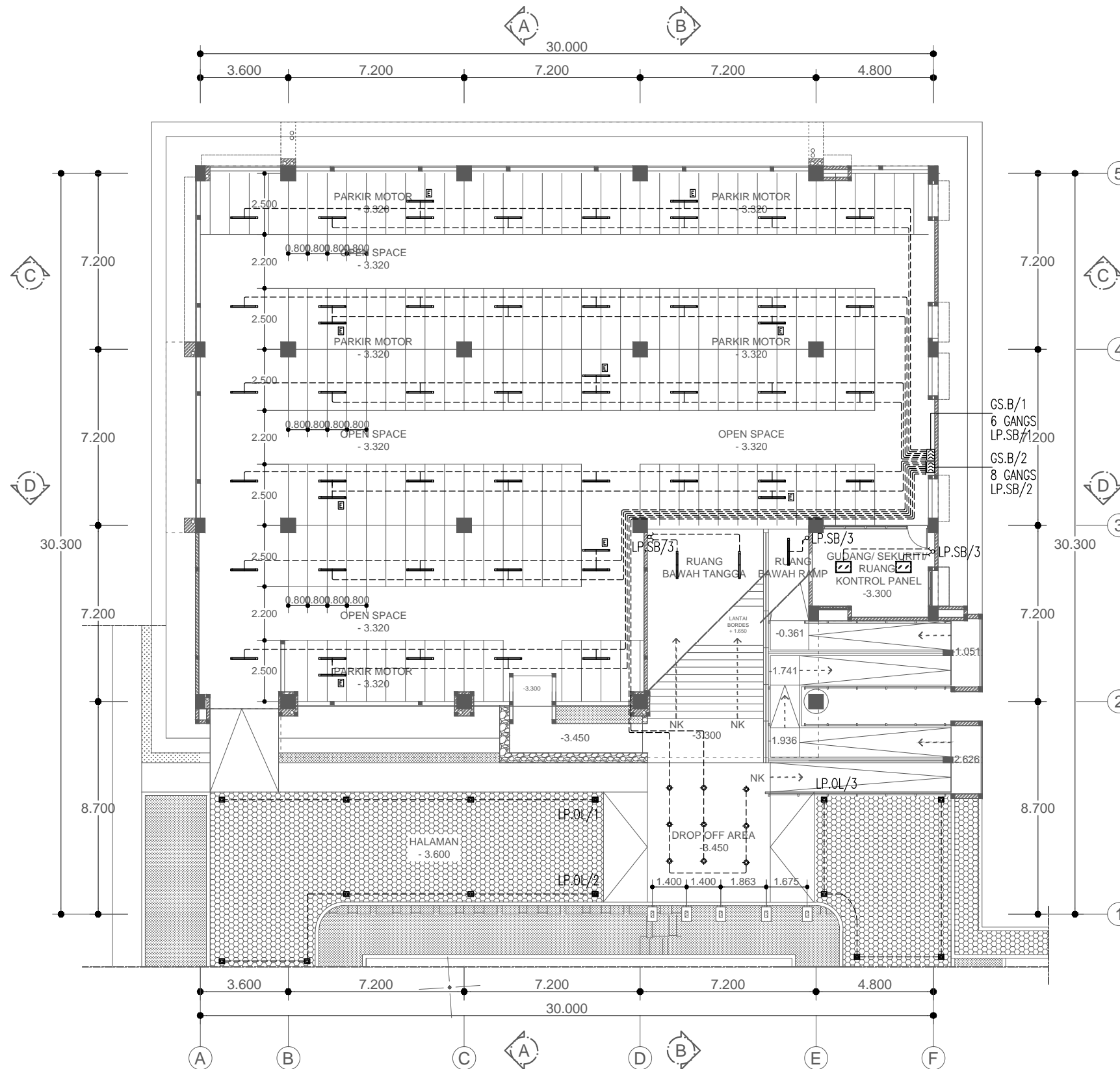


PART NO	HEIGHT	WIDTH	LENGTH	DEPTH
ORD-LU 100/150	100	150	98	98
ORD-LU 100/200	100	200	98	98
ORD-LU 100/300	100	300	98	98
ORD-LU 100/400	100	400	300-600	98
ORD-LU 100/500	100	500	98	98
ORD-LU 100/600	100	600	98	98
ORD-LU 100/800	100	800	98	98



PART NO	HEIGHT	WIDTH	RADIUS	DEPTH
ORD-LU 100/150	100	150	98	98
ORD-LU 100/200	100	200	98	98
ORD-LU 100/300	100	300	98	98
ORD-LU 100/400	100	400	300-600	98
ORD-LU 100/500	100	500	98	98
ORD-LU 100/600	100	600	98	98
ORD-LU 100/800	100	800	98	98

STANDAR DETIL TRAY KABEL  
SKALA NTS



SIMBOL & KETERANGAN	
[Symbol]	TL LED 18W (ARMATUR BALK OVAL / BAMBU)
[Symbol]	TL LED 18W (ARMATUR BALK OVAL / BAMBU) + BATTERY
[Symbol]	DOWNLIGHT LED SPOT 5W
[Symbol]	RM 3 x TL LED 9W W/ ACRYLIC COVER
[Symbol]	GARDEN LAMP PILAR KOTAK PLC 18W
[Symbol]	SAKLAR GANDA
[Symbol]	SAKLAR TUNGGAL
[Symbol]	SAKLAR GANGS/GRID SWITCH

LP.X/X  
NO. GRUP (MCB) DI PANEL  
NAMA PANEL

CATATAN :  
- INSTALASI PENERANGAN MENGGUNAKAN KABEL NYM 3x2,5mm<sup>2</sup> DALAM HIGH IMPACT CONDUIT #20mm  
- LAMPU EMERGENCY HARUS DAPAT DIFUNGSIKAN SEBAGAI LAMPU NORMAL

**RENCANA PENERANGAN SEMI BASEMENT**  
SKALA 1 : 200

NAMA BANGUNAN

**GEDUNG ADMISI UMY**



UNIVERSITAS MUHAMMADIYAH  
YOGYAKARTA

MENGETAHUI/ MENYETUJUI

Dr. Ir. GUNAWAN BUDIYANTO, M.P.  
REKTOR

PENANGGUNG JAWAB

SRI ATMAJA P. ROSYIDI, MSc.Eng., Ph.D.  
WAKIL REKTOR III

TIM PERENCANA  
UMY

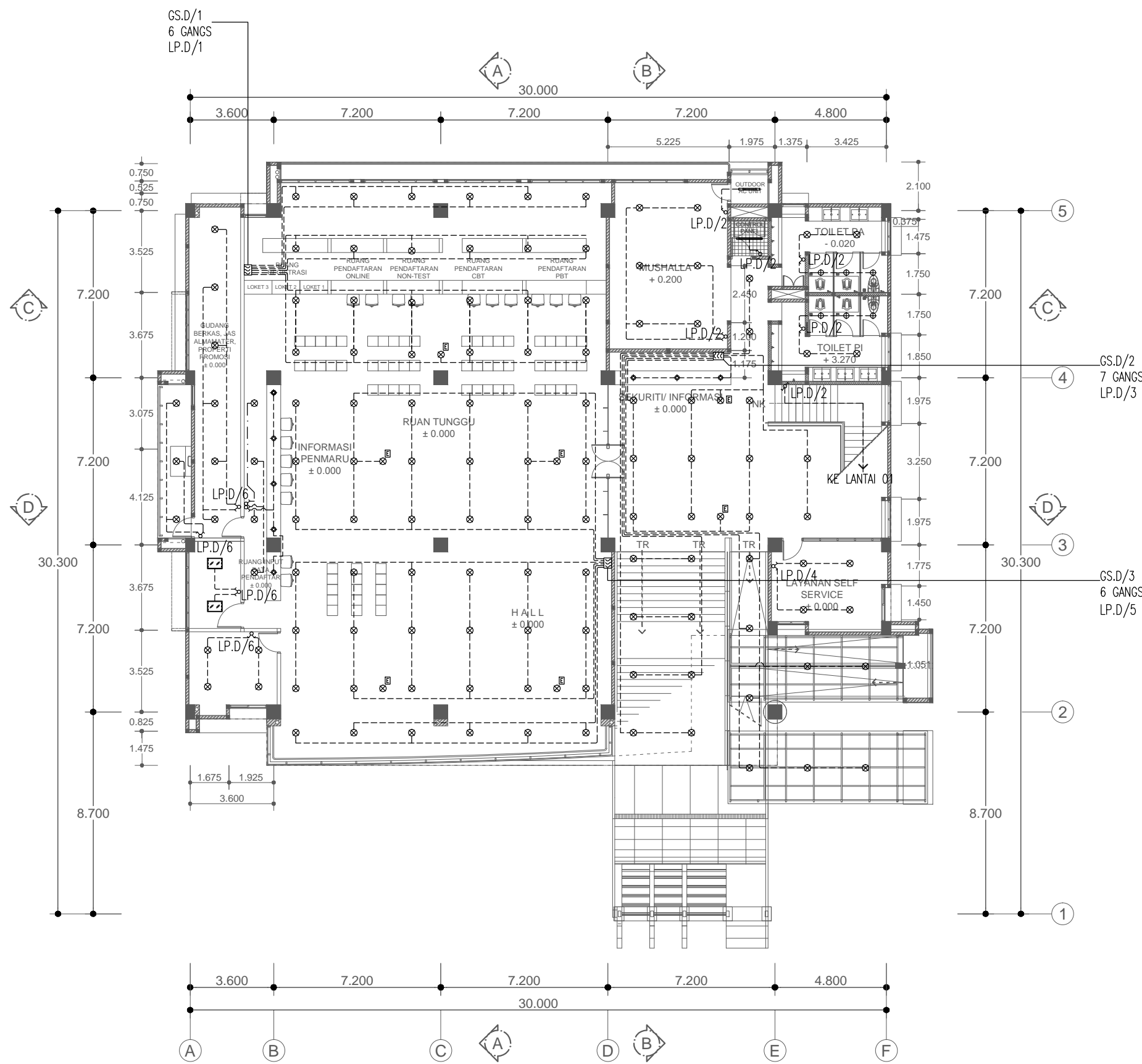
	NAMA	PARAF
TIM LEADER	BAGUS S. ST., M.Eng	
ARSITEK	ARWAN S. ST., M.Sc	
STRUKTUR	YOGA A.H. ST., M.Eng	
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng	
DIGAMBAR		

JUDUL GAMBAR	SKALA
RENCANA PENERANGAN LANTAI BASEMENT	1 : 200

CATATAN/ KETERANGAN

REVISI			
NO.	URAIAN	TANGGAL	PARAF

KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STDR EL-PEN	1	



SIMBOL & KETERANGAN	
	DOWNLIGHT LED BULB 13W COOL DAYLIGHT
	DOWNLIGHT LED BULB 13W COOL DAYLIGHT + BATTERY
	DOWNLIGHT LED BULB 9W COOL DAYLIGHT
	DOWNLIGHT LED SPOT 5W
	RM 3 x TL LED 9W W/ ACRYLIC COVER
	TL LED 9W (ARMATUR BALK OVAL / BAMBU)
	TL LED 18W (ARMATUR BALK OVAL / BAMBU)
	SAKLAR GANDA
	SAKLAR TUNGGAL
	SAKLAR HOTEL TUNGGAL
	SAKLAR GANGS/GRID SWITCH

LP.X/X  
 NO. GRUP (MCS) DI PANEL  
 NAMA PANEL

CATATAN :  
 - INSTALASI PENERANGAN MENGGUNAKAN KABEL NYM 3x2,5mm<sup>2</sup> DALAM HIGH IMPACT CONDUIT #20mm  
 - LAMPU EMERGENCY HARUS DAPAT DIFUNGSIKAN SEBAGAI LAMPU NORMAL

**RENCANA PENERANGAN LANTAI DASAR**  
 SKALA 1 : 200

NAMA BANGUNAN  
**GEDUNG ADMISI UMY**

UNIVERSITAS MUHAMMADIYAH  
 YOGYAKARTA

MENGETAHUI/ MENYETUJUI

Dr. Ir. GUNAWAN BUDIYANTO, M.P.  
 REKTOR

PENANGGUNG JAWAB

SRI ATMAJA P. ROSYIDI, MSc.Eng., Ph.D.  
 WAKIL REKTOR III

TIM PERENCANA  
 UMY

	NAMA	PARAF
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ARSITEK	ARWAN S. ST., M.Sc	
STRUKTUR	YOGA A.H. ST., M.Eng	
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng	
DIGAMBAR		

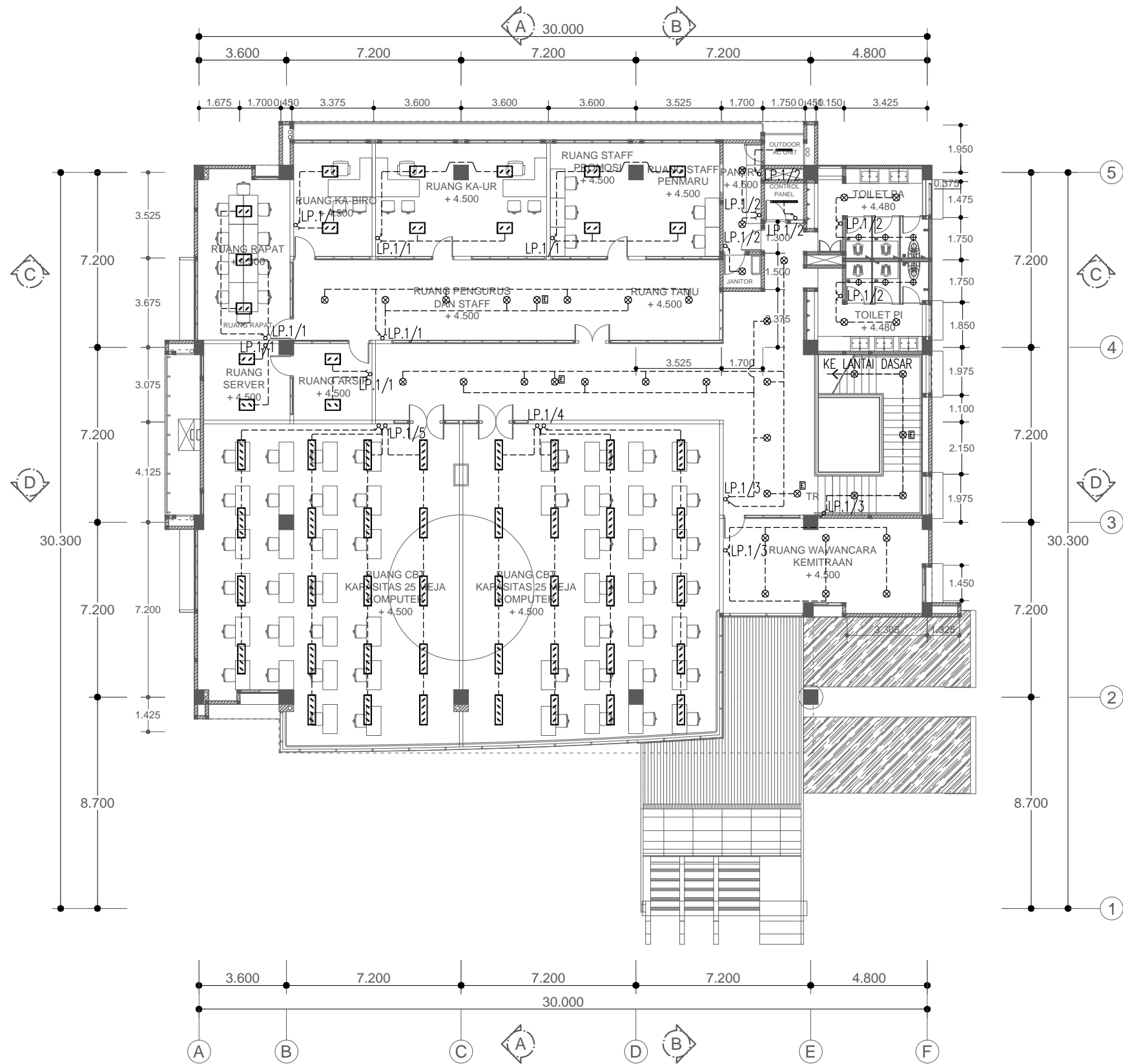
JUDUL GAMBAR	SKALA
RENCANA PENERANGAN LANTAI DASAR	1 : 200

CATATAN/ KETERANGAN

REVISI			
NO.	URAIAN	TANGGAL	PARAF

KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STDR EL-PEN	2	





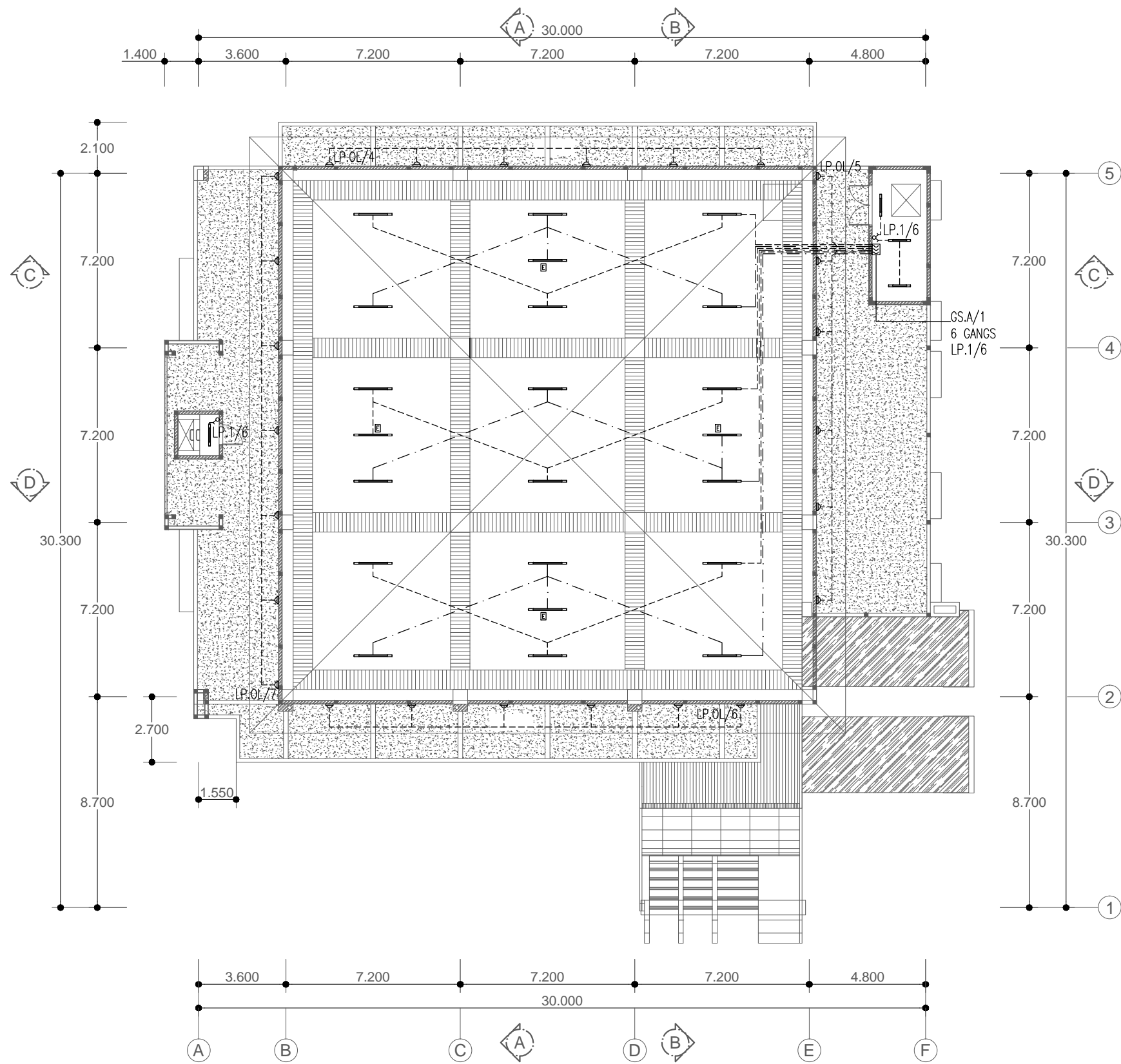
SIMBOL & KETERANGAN	
	DOWNLIGHT LED BULB 13W COOL DAYLIGHT
	DOWNLIGHT LED BULB 13W COOL DAYLIGHT + BATTERY
	DOWNLIGHT LED BULB 9W COOL DAYLIGHT
	RM 2 x TL LED 18W W/ ACRYLIC COVER
	RM 3 x TL LED 9W W/ ACRYLIC COVER
	TL LED 18W (ARMATUR BALK OVAL / BAMBU)
	SAKLAR GANDA
	SAKLAR TUNGGAL
	SAKLAR HOTEL TUNGGAL
	SAKLAR GANGS/GRID SWITCH

LP.X/X  
NO. GRUP (MCS) DI PANEL  
NAMA PANEL

CATATAN :  
- INSTALASI PENERANGAN MENGGUNAKAN KABEL NYM 3x2,5mm<sup>2</sup> DALAM HIGH IMPACT CONDUIT #20mm  
- LAMPU EMERGENCY HARUS DAPAT DIFUNGSIKAN SEBAGAI LAMPU NORMAL

**RENCANA PENERANGAN LANTAI 01**  
SKALA 1 : 200

NAMA BANGUNAN			
<b>GEDUNG ADMISI UMY</b>			
UNIVERSITAS MUHAMMADIYAH YOGYAKARTA			
MENGETAHUI/ MENYETUJUI			
<u>Dr. Ir. GUNAWAN BUDIYANTO, M.P.</u> REKTOR			
PENANGGUNG JAWAB			
<u>SRI ATMAJA P. ROSYIDI, M.Sc. Eng., Ph.D.</u> WAKIL REKTOR III			
TIM PERENCANA UMY			
	NAMA	PARAF	
TIM LEADER	BAGUS S. ST., M.Eng		
ARSITEK	ARWAN S. ST., M.Sc		
STRUKTUR	YOGA A.H. ST., M.Eng		
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng		
DIGAMBAR			
JUDUL GAMBAR	SKALA		
RENCANA PENERANGAN LANTAI 01	1 : 200		
CATATAN/ KETERANGAN			
REVISI			
NO.	URAIAN	TANGGAL	PARAF
KODE GAMBAR	NO. GAMBAR	JML. LEMBAR	
UMY_ADM_STDR			
EL-PEN	3		



SIMBOL & KETERANGAN	
	TL LED 9W (ARMATUR BALK OVAL / BAMBUI)
	TL LED 18W (ARMATUR BALK OVAL / BAMBUI)
	TL LED 18W (ARMATUR BALK OVAL / BAMBUI) + BATTERY
	ROUND WALL LAMP LED 5W COOL DAYLIGHT
	SAKLAR GANDA
	SAKLAR TUNGGAL
	SAKLAR GANGS/GRID SWITCH

LP.X/X  
 NO. GRUP (MCS) DI PANEL  
 NAMA PANEL

CATATAN :  
 - INSTALASI PENERANGAN MENGGUNAKAN KABEL NYM 3x2,5mm<sup>2</sup> DALAM HIGH IMPACT CONDUIT #20mm  
 - LAMPU EMERGENCY HARUS DAPAT DIFUNGSIKAN SEBAGAI LAMPU NORMAL

**RENCANA PENERANGAN LANTAI ATAP**  
 SKALA 1 : 200

NAMA BANGUNAN

**GEDUNG ADMISI UMY**



UNIVERSITAS MUHAMMADIYAH  
 YOGYAKARTA

MENGETAHUI/ MENYETUJUI

Dr. Ir. GUNAWAN BUDIYANTO, M.P.  
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PENANGGUNG JAWAB

SRI ATMAJA P. ROSYIDI, M.Sc. Eng., Ph.D.  
 WAKIL REKTOR III

TIM PERENCANA  
 UMY

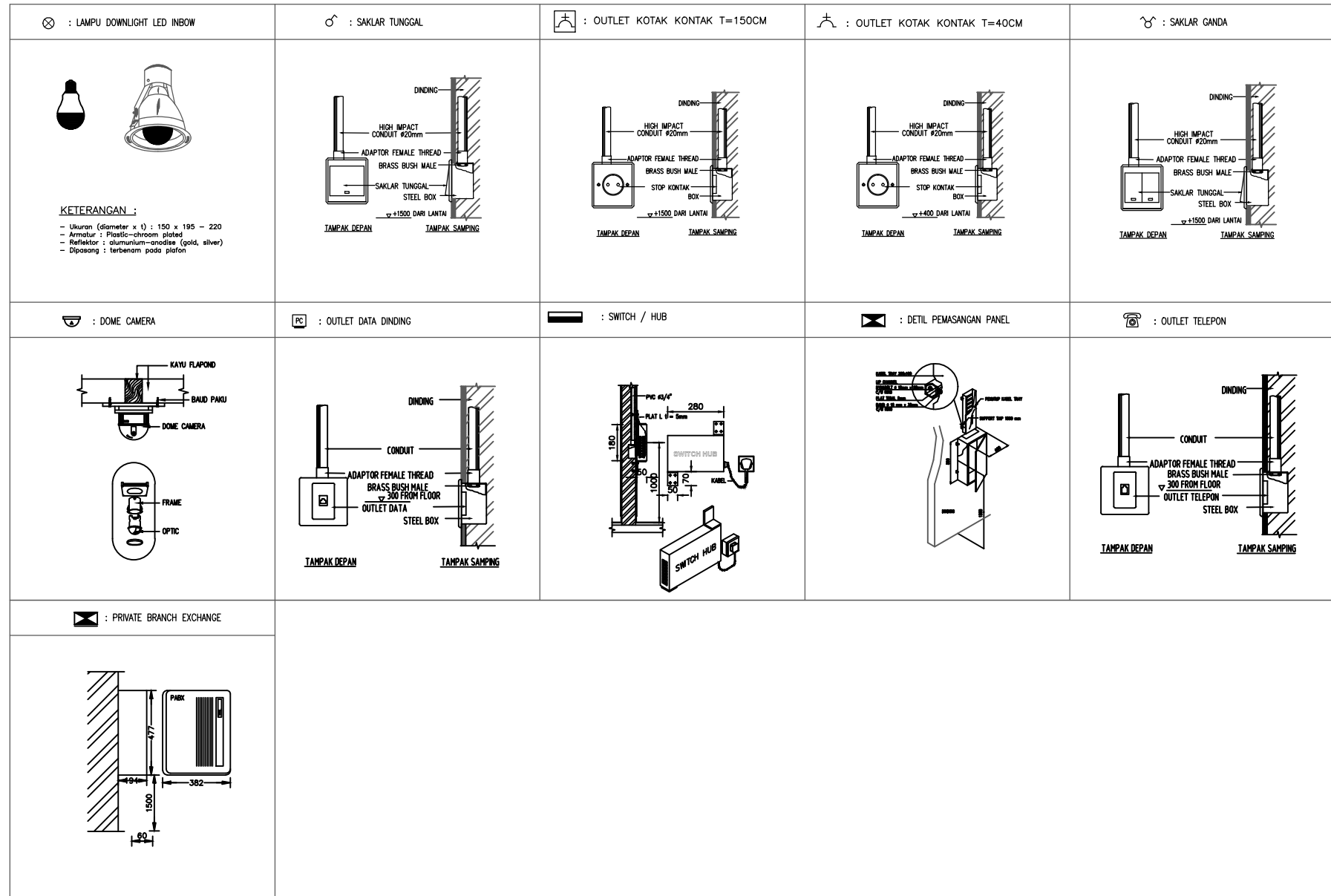
	NAMA	PARAF
TIM LEADER	BAGUS S. ST., M.Eng	
ARSITEK	ARWAN S. ST., M.Sc	
STRUKTUR	YOGA A.H. ST., M.Eng	
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng	
DIGAMBAR		

JUDUL GAMBAR	SKALA
RENCANA PENERANGAN LANTAI ATAP	1 : 200

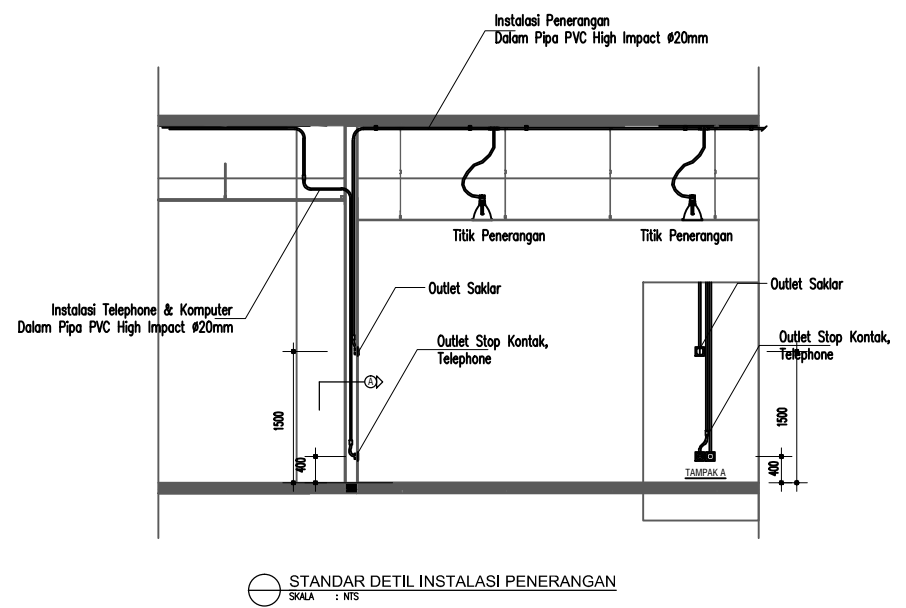
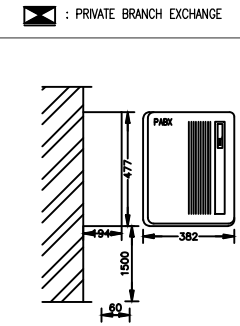
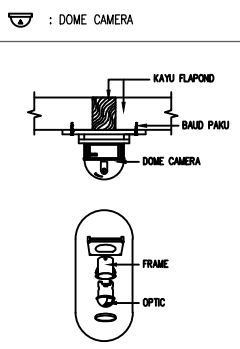
CATATAN/ KETERANGAN

REVISI			
NO.	URAIAN	TANGGAL	PARAF

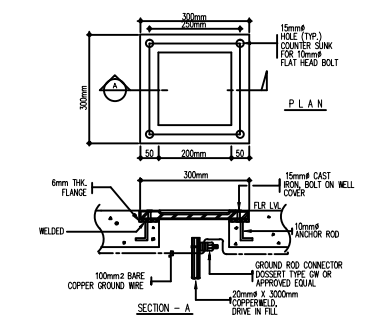
KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STDR EL-PEN	4	



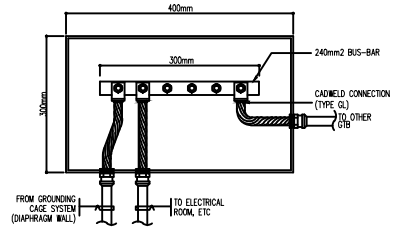
**KETERANGAN :**  
 - Ukuran (diameter x t) : 150 x 195 - 220  
 - Armatur : Plastic-chroom plated  
 - Reflektor : aluminium-anodise (gold, silver)  
 - Diposang : terbenam pada plafon



STANDAR DETIL INSTALASI PENERANGAN  
 SKALA : NTS




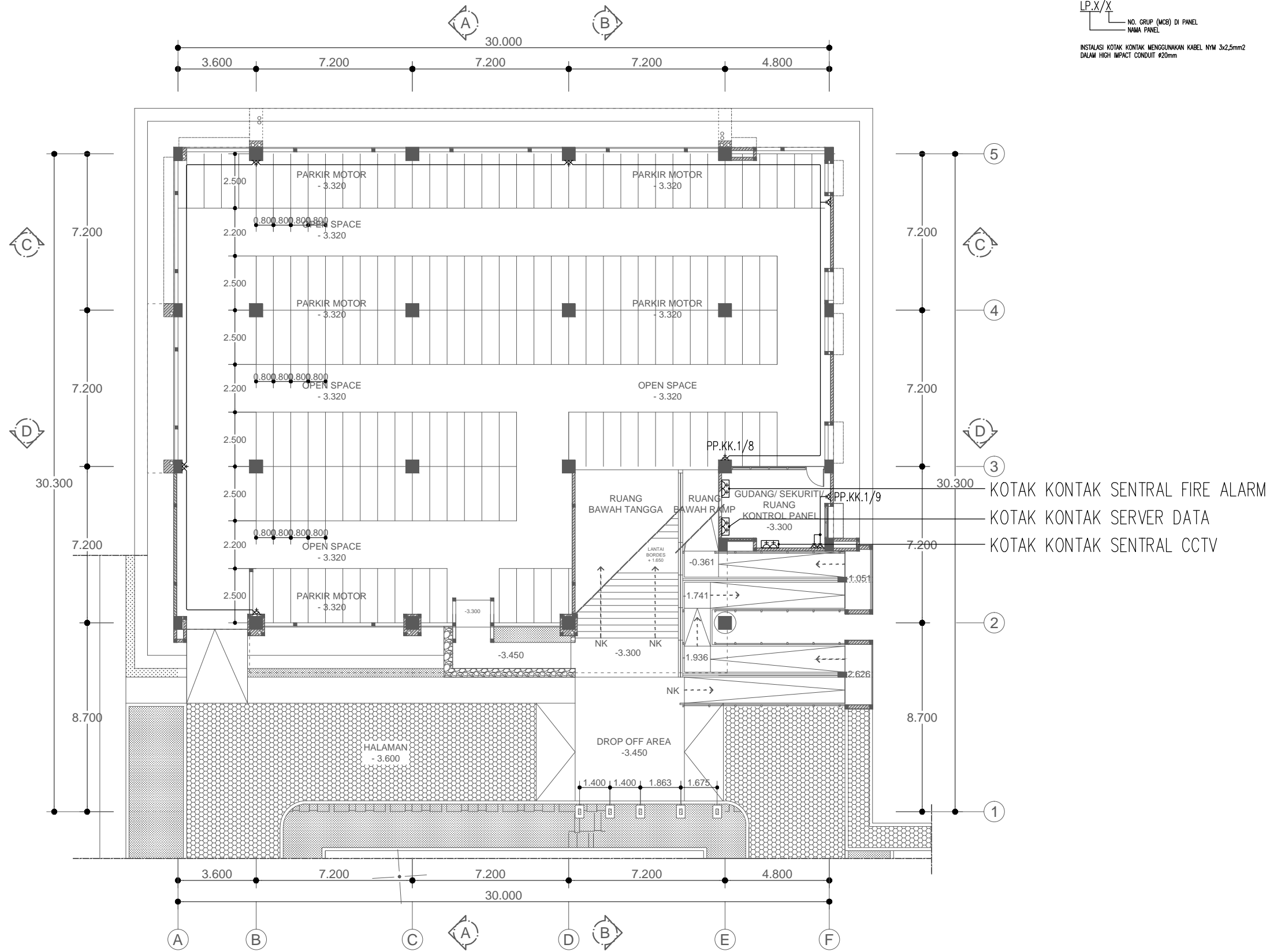
DETAIL BAK KONTROL GROUNDING  
 SKALA : NTS



DETAIL KOTAK TERMINAL GROUNDING  
 SKALA : NTS

**STANDAR DETIL ELEKTRIKAL**  
 SKALA NTS

NAMA BANGUNAN			
<b>GEDUNG ADMISI UMY</b>			
			
UNIVERSITAS MUHAMMADIYAH YOGYAKARTA			
MENGETAHUI/ MENYETUJUI			
<u>Dr. Ir. GUNAWAN BUDIYANTO, M.P.</u> REKTOR			
PENANGGUNG JAWAB			
<u>SRI ATMAJA P. ROSYIDI, MSc. Eng., Ph.D.</u> WAKIL REKTOR III			
TIM PERENCANA UMY			
	NAMA	PARAF	
TIM LEADER	BAGUS S. ST., M.Eng		
ARSITEK	ARWAN S. ST., M.Sc		
STRUKTUR	YOGA A.H. ST., M.Eng		
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng		
DIGAMBAR			
JUDUL GAMBAR	SKALA		
STANDAR DETIL ELEKTRIKAL	NTS		
CATATAN/ KETERANGAN			
REVISI			
NO.	URAIAN	TANGGAL	PARAF
KODE GAMBAR	NO. GAMBAR	JML. LEMBAR	
UMY_ADM_STDR			
EL-PEN	5		



**RENCANA KOTAK KONTAK SEMI BASEMENT**  
SKALA 1 : 200

NAMA BANGUNAN

**GEDUNG ADMISI UMY**



UNIVERSITAS MUHAMMADIYAH  
YOGYAKARTA

MENGETAHUI/ MENYETUJUI

Dr. Ir. GUNAWAN BUDIYANTO, M.P.  
REKTOR

PENANGGUNG JAWAB

SRI ATMAJA P. ROSYIDI, M.Sc. Eng., Ph.D.  
WAKIL REKTOR III

TIM PERENCANA  
UMY

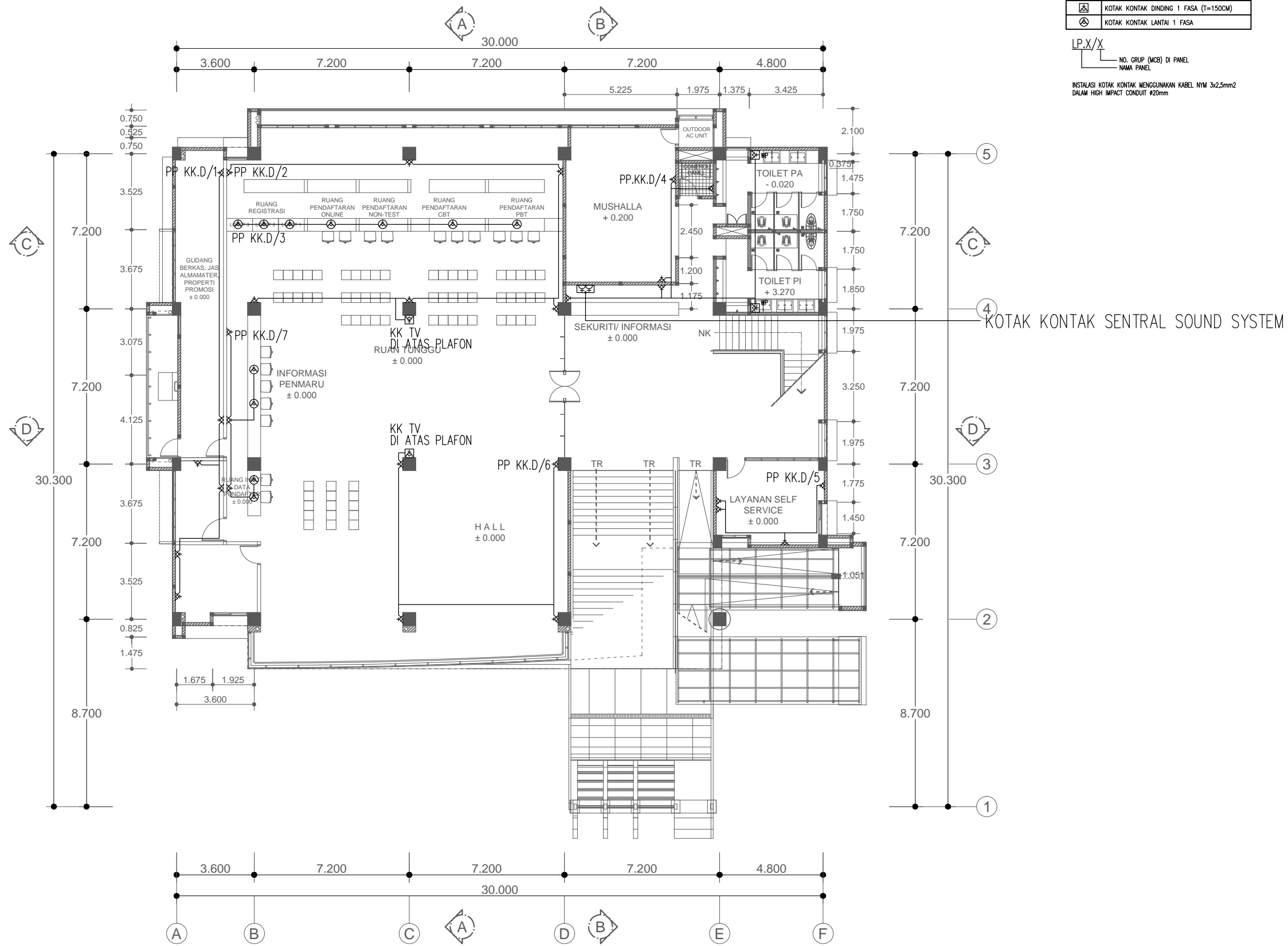
	NAMA	PARAF
TIM LEADER	BAGUS S. ST., M.Eng	
ARSITEK	ARWAN S. ST., M.Sc	
STRUKTUR	YOGA A.H. ST., M.Eng	
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng	
DIGAMBAR		

JUDUL GAMBAR	SKALA
RENCANA KOTAK KONTAK LANTAI BASEMENT	1 : 200

CATATAN/ KETERANGAN

REVISI			
NO.	URAIAN	TANGGAL	PARAF


KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STDR EL-KK	1	

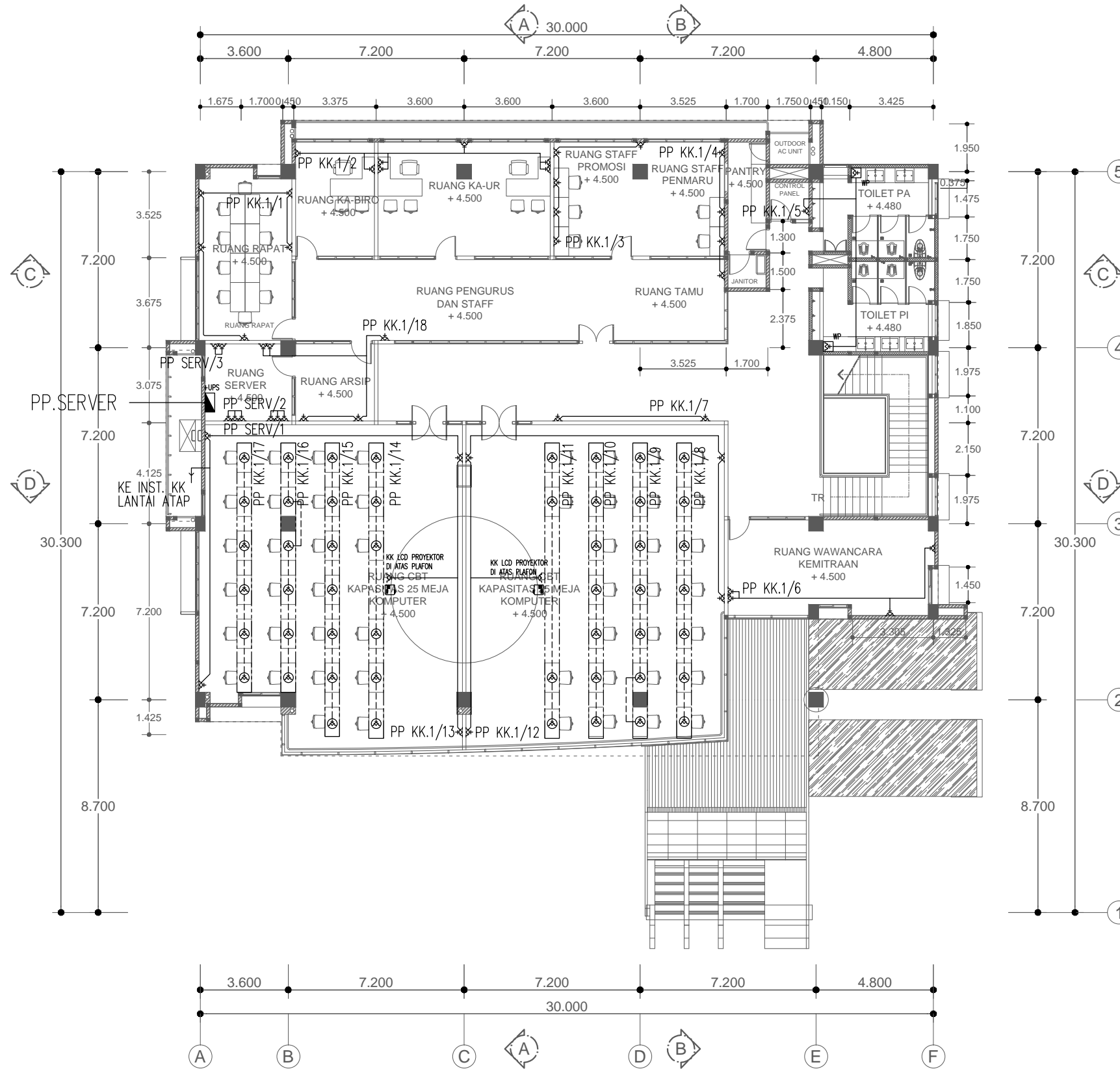


SIMBOL & KETERANGAN	
	KOTAK KONTAK DINDING 1 FASA (T=40CM)
	KOTAK KONTAK DINDING 1 FASA (T=150CM)
	KOTAK KONTAK LANTAI 1 FASA

LP.X/X  
 NO. GRUP (MCE) DI PANEL  
 NAMA PANEL  
 INSTALASI KOTAK KONTAK MENGGUNAKAN KABEL NYM 3x2,5mm<sup>2</sup>  
 DALAM HIGH IMPACT CONDUIT Ø20mm

**RENCANA KOTAK KONTAK LANTAI DASAR**  
 SKALA 1 : 200

NAMA BANGUNAN			
<b>GEDUNG ADMISI UMY</b>			
			
UNIVERSITAS MUHAMMADIYAH YOGYAKARTA			
MENGETAHUI/ MENYETUJUI			
<u>Dr. Ir. GUNAWAN BUDIYANTO, M.P.</u> REKTOR			
PENANGGUNG JAWAB			
<u>SRI ATMAJA P. ROSYIDI, MSc.Eng., Ph.D.</u> WAKIL REKTOR III			
TIM PERENCANA UMY			
	NAMA	PARAF	
TIM LEADER	BAGUS S. ST., M.Eng		
ARSITEK	ARWAN S. ST., M.Sc		
STRUKTUR	YOGA A.H. ST., M.Eng		
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng		
DIGAMBAR			
JUDUL GAMBAR		SKALA	
RENCANA KOTAK KONTAK LANTAI DASAR		1 : 200	
CATATAN/ KETERANGAN			
REVISI			
NO.	URAIAN	TANGGAL	PARAF
KODE GAMBAR	NO. GAMBAR	JML. LEMBAR	
UMY_ADM_STDR	EL-KK	2	

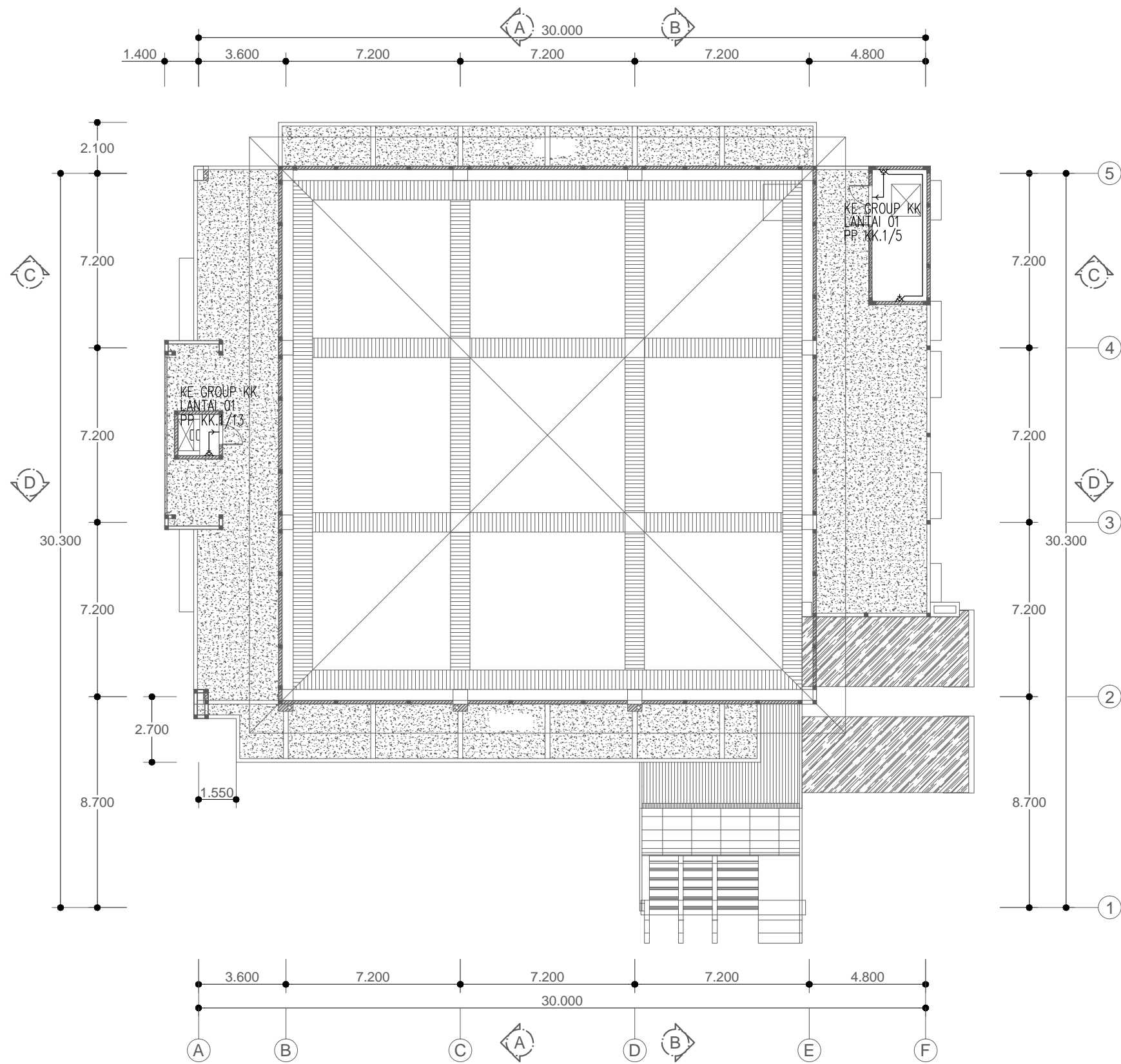


SIMBOL & KETERANGAN	
	KOTAK KONTAK DINDING 1 FASA (T=40CM)
	KOTAK KONTAK DINDING 1 FASA (T=150CM)
	KOTAK KONTAK LANTAI 1 FASA
	KOTAK KONTAK LCD PROYEKTOR 1 FASA

IP.X/X  
 NO. GRUP (MCE) DI PANEL  
 NAMA PANEL  
 INSTALASI KOTAK KONTAK MENGGUNAKAN KABEL NYM 3x2,5mm<sup>2</sup>  
 DALAM HIGH IMPACT CONDUIT ø20mm

**RENCANA KOTAK KONTAK LANTAI 01**  
 SKALA 1 : 200

NAMA BANGUNAN			
<b>GEDUNG ADMISI UMY</b>			
UNIVERSITAS MUHAMMADIYAH YOGYAKARTA			
MENGETAHUI/ MENYETUJUI			
<u>Dr. Ir. GUNAWAN BUDIYANTO, M.P.</u> REKTOR			
PENANGGUNG JAWAB			
<u>SRI ATMAJA P. ROSYIDI, MSc.Eng., Ph.D.</u> WAKIL REKTOR III			
TIM PERENCANA UMY			
	NAMA	PARAF	
TIM LEADER	BAGUS S. ST., M.Eng		
ARSITEK	ARWAN S. ST., M.Sc		
STRUKTUR	YOGA A.H. ST., M.Eng		
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng		
DIGAMBAR			
JUDUL GAMBAR	SKALA		
RENCANA KOTAK KONTAK LANTAI 01	1 : 200		
CATATAN/ KETERANGAN			
REVISI			
NO.	URAIAN	TANGGAL	PARAF
KODE GAMBAR	NO. GAMBAR	JML. LEMBAR	
UMY_ADM_STDR			
EL-KK	3		



**SIMBOL & KETERANGAN**


⊠ KOTAK KONTAK DINDING 1 FASA (T=40CM)

LP.X/X NO. GRUP (MCH) DI PANEL NMA PANEL

INSTALASI KOTAK KONTAK MENGGUNAKAN KABEL NYM 3x2,5mm<sup>2</sup> DALAM HIGH IMPACT CONDUIT Ø20mm

**RENCANA KOTAK KONTAK LANTAI ATAP**  
SKALA 1 : 200

NAMA BANGUNAN  
**GEDUNG ADMISI UMY**



UNIVERSITAS MUHAMMADIYAH YOGYAKARTA

MENGETAHUI/ MENYETUJUI

Dr. Ir. GUNAWAN BUDIYANTO, M.P.  
REKTOR

PENANGGUNG JAWAB

SRI ATMAJA P. ROSYIDI, M.Sc. Eng., Ph.D.  
WAKIL REKTOR III

TIM PERENCANA UMY

	NAMA	PARAF
TIM LEADER	BAGUS S. ST., M.Eng	
ARSITEK	ARWAN S. ST., M.Sc	
STRUKTUR	YOGA A.H. ST., M.Eng	
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng	
DIGAMBAR		

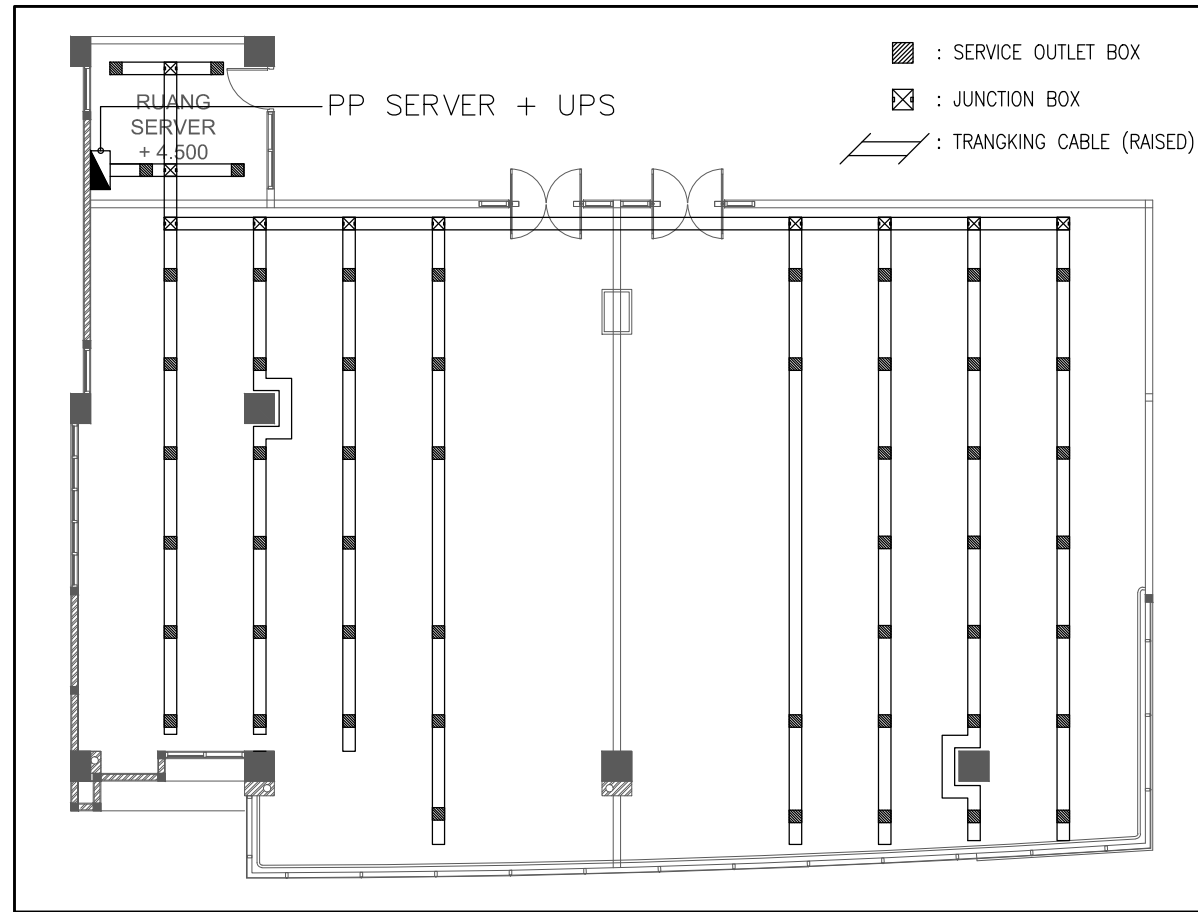
JUDUL GAMBAR	SKALA
RENCANA KOTAK KONTAK LANTAI ATAP	1 : 200

CATATAN/ KETERANGAN

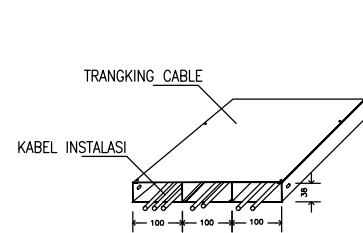
REVISI

NO.	URAIAN	TANGGAL	PARAF

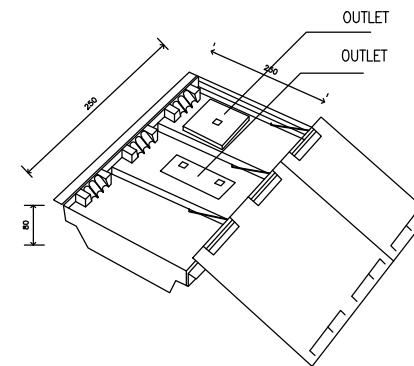
KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STDR EL-KK	4	



**RENCANA UNDER FLOOR DUCT**  
SKALA : NTS



**DETIL JUNCTION BOX**  
SKALA : NTS



**DETIL SERVICE BOX**  
SKALA : NTS

**RENCANA UNDER FLOOR DUCT R.CBT**  
SKALA : NTS

NAMA BANGUNAN

**GEDUNG ADMISI UMY**



UNIVERSITAS MUHAMMADIYAH  
YOGYAKARTA

MENGETAHUI/ MENYETUJUI

Dr. Ir. GUNAWAN BUDIYANTO, M.P.  
REKTOR

PENANGGUNG JAWAB

SRI ATMAJA P. ROSYIDI, M.Sc. Eng., Ph.D.  
WAKIL REKTOR III

TIM PERENCANA  
UMY

	NAMA	PARAF
TIM LEADER	BAGUS S. ST., M.Eng	
ARSITEK	ARWAN S. ST., M.Sc	
STRUKTUR	YOGA A.H. ST., M.Eng	
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng	
DIGAMBAR		

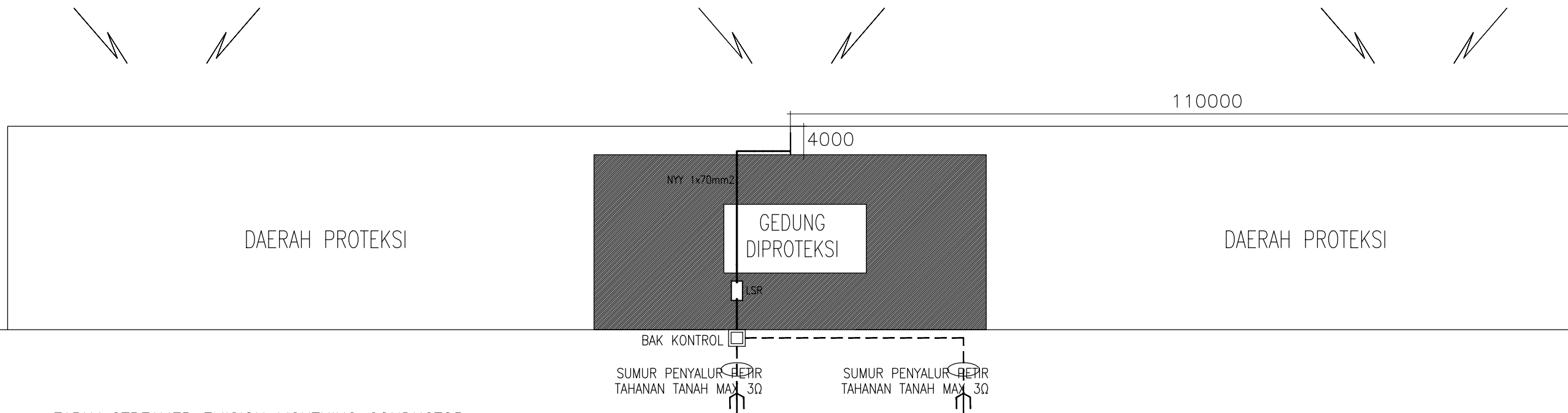
JUDUL GAMBAR	SKALA
RENCANA UNDER FLOOR DUCT RUANG CBT	NTS

CATATAN/ KETERANGAN

REVISI			
NO.	URAIAN	TANGGAL	PARAF

KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STDR EL-KK	4	





EARLY STREAMER EMISSION LIGHTNING CONDUCTOR  
**" FLASH VECTRON " FV.6**

KETERANGAN GAMBAR :


H : TINGGI TERMINAL UDARA PENYALUR PETIR DARI LEVEL TERTINGGI  
 GEDUNG YG DIPROTEKSI

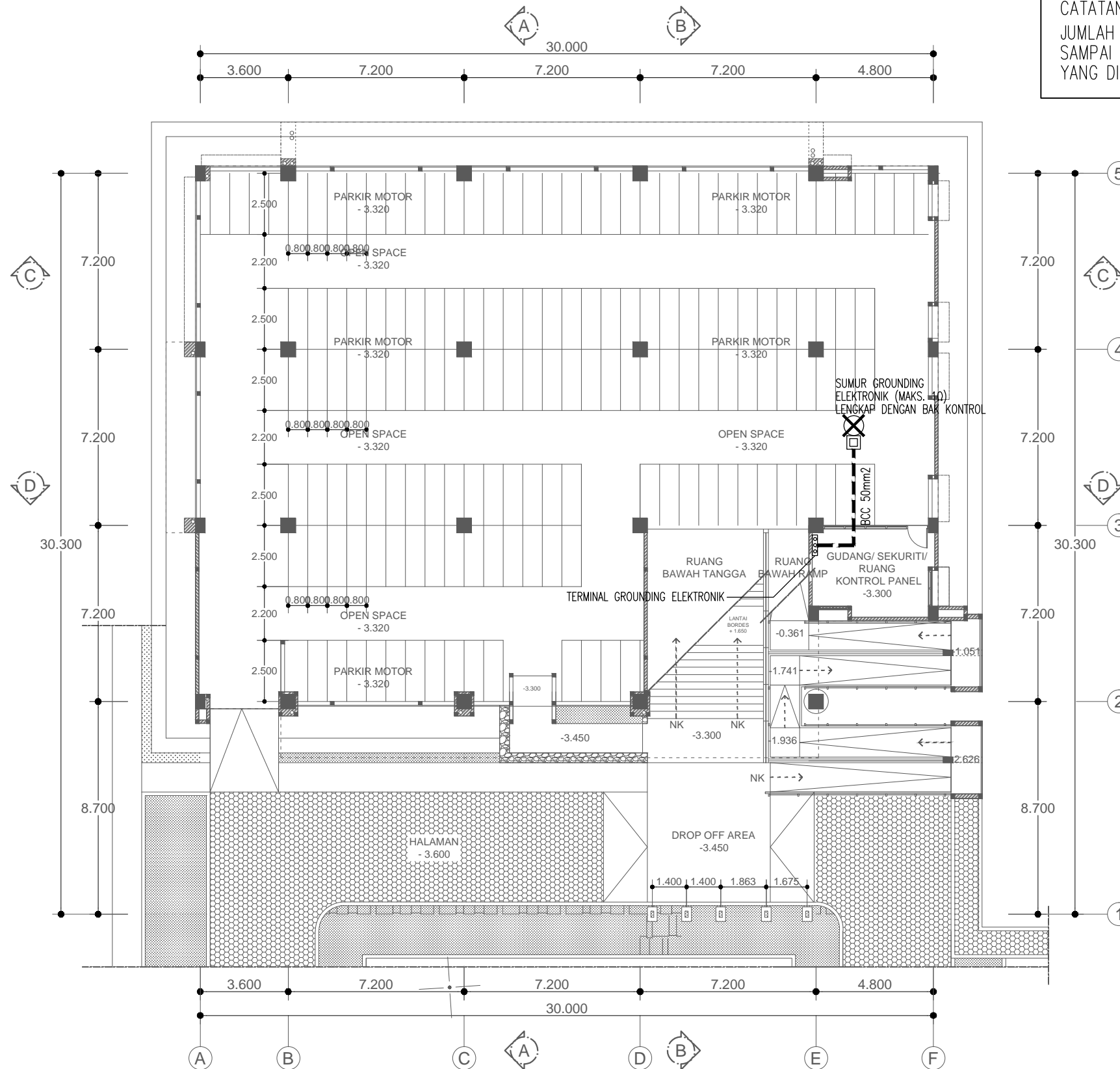
R<sub>p</sub> : RADIUS PROTEKSI PENYALUR PETIR

TABEL RADIUS PERLINDUNGAN STANDART FLASH VECTRON FV.6

H (m)	3	4	5	6	7	8	9	10	20
FV.6	95	110	123	135	146	156	166	175	247


 **DIAGRAM SKEMATIK PENYALUR PETIR**  
 SKALA NTS

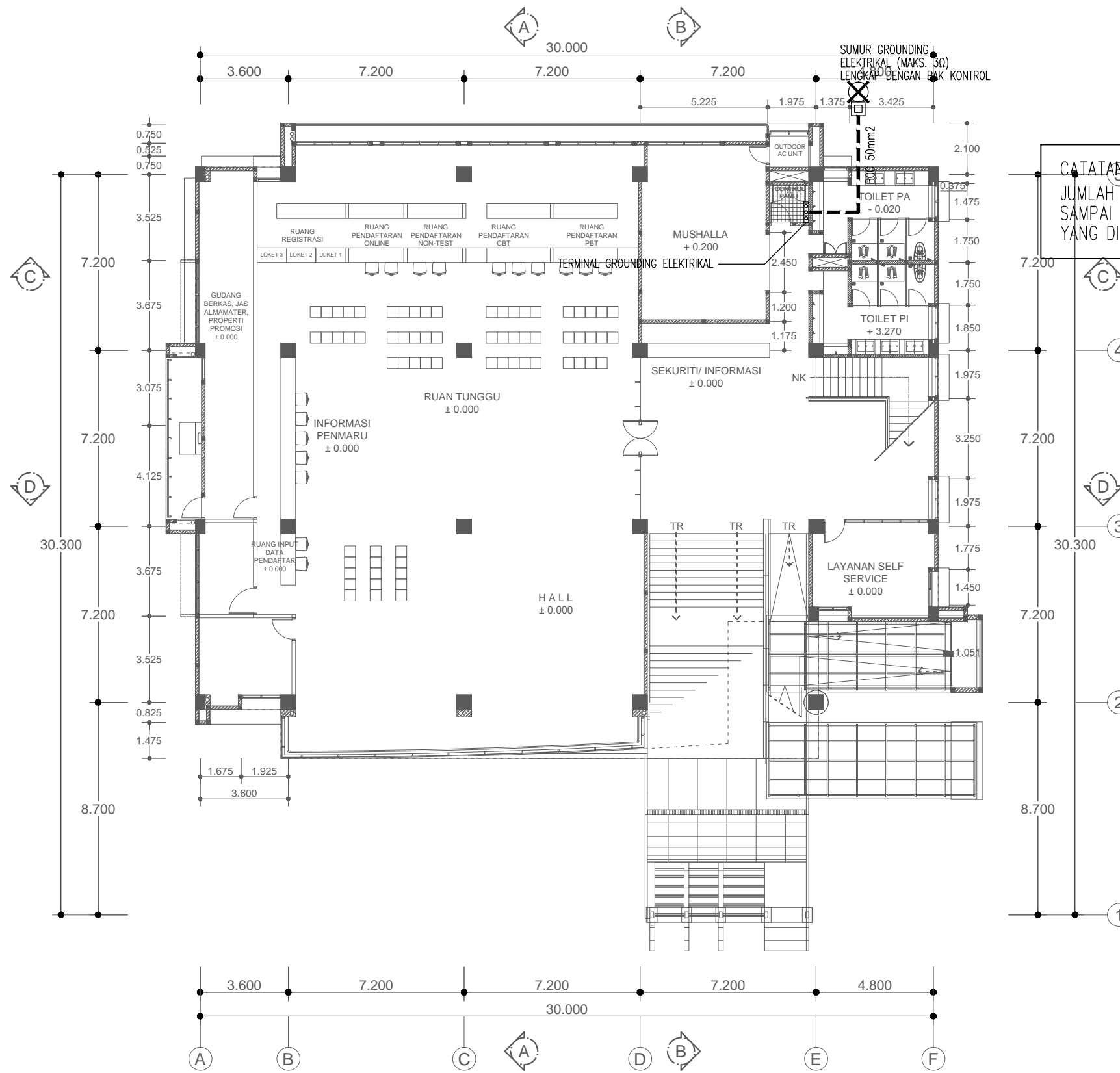
NAMA BANGUNAN			
<b>GEDUNG ADMISI UMY</b>			
 UNIVERSITAS MUHAMMADIYAH YOGYAKARTA			
MENGETAHUI/ MENYETUJUI			
Dr. Ir. GUNAWAN BUDIYANTO, M.P. REKTOR			
PENANGGUNG JAWAB			
SRI ATMAJA P. ROSYIDI, M.Sc. Eng., Ph.D. WAKIL REKTOR III			
TIM PERENCANA UMY			
	NAMA	PARAF	
TIM LEADER	BAGUS S. ST., M.Eng		
ARSITEK	ARWAN S. ST., M.Sc		
STRUKTUR	YOGA A.H. ST., M.Eng		
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng		
DIGAMBAR			
JUDUL GAMBAR		SKALA	
DIAGRAM SKEMATIK PENYALUR PETIR		NTS	
CATATAN/ KETERANGAN			
REVISI			
NO.	URAIAN	TANGGAL	PARAF
KODE GAMBAR	NO. GAMBAR	JML. LEMBAR	
UMY_ADM_STDR	EL-PP	1	




CATATAN :  
 JUMLAH TITIK SUMUR GROUNDING TIDAK TERIKAT,  
 SAMPAI DICAPAI NILAI TAHANAN GROUNDING  
 YANG DIINGINKAN

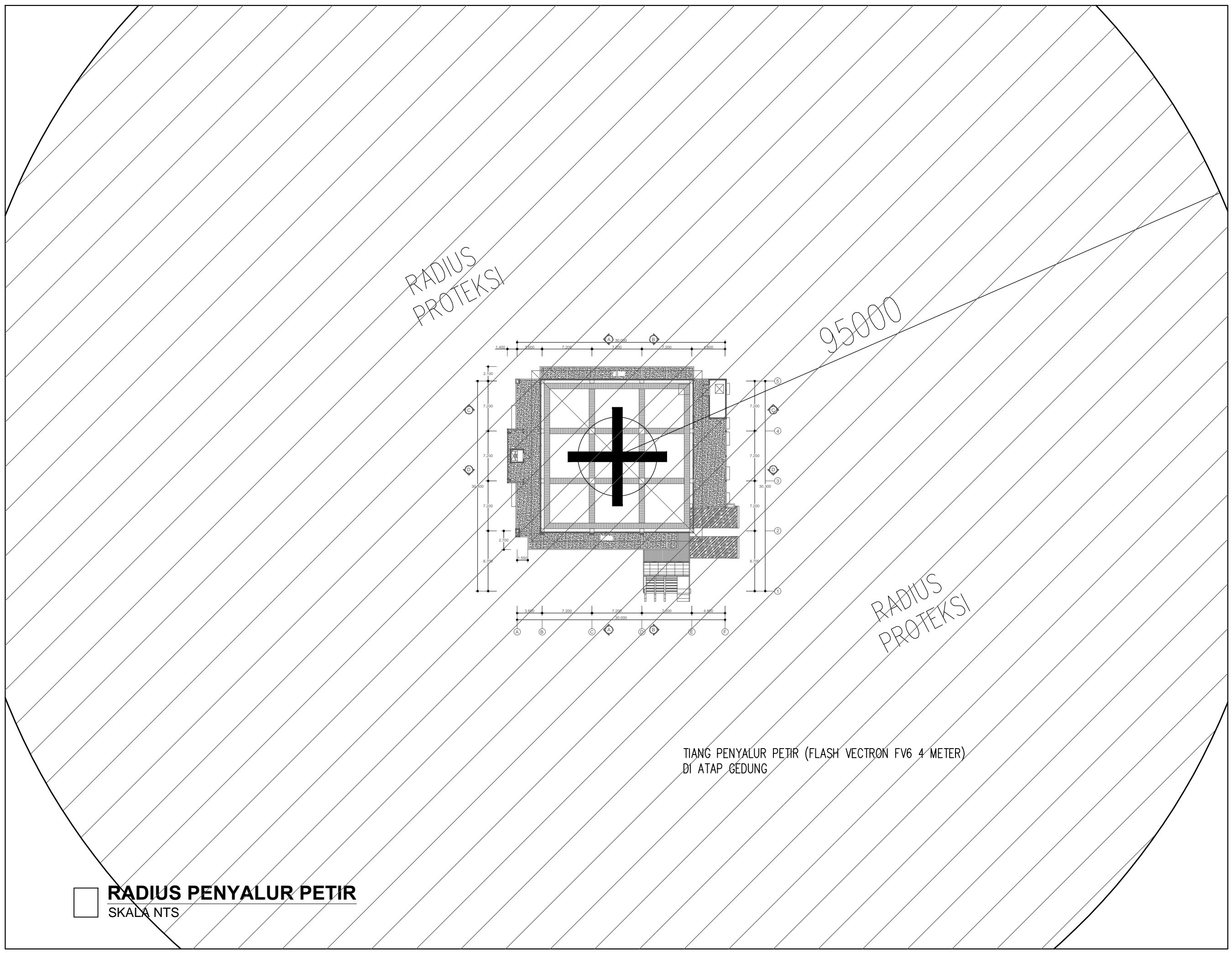
**RENCANA PENERANGAN SEMI BASEMENT**  
 SKALA 1 : 200

NAMA BANGUNAN			
GEDUNG ADMISI UMY			
			
UNIVERSITAS MUHAMMADIYAH YOGYAKARTA			
MENGETAHUI/ MENYETUJUI			
<u>Dr. Ir. GUNAWAN BUDIYANTO, M.P.</u> REKTOR			
PENANGGUNG JAWAB			
<u>SRI ATMAJA P. ROSYIDI, MSc.Eng., Ph.D.</u> WAKIL REKTOR III			
TIM PERENCANA UMY			
	NAMA	PARAF	
TIM LEADER	BAGUS S. ST., M.Eng		
ARSITEK	ARWAN S. ST., M.Sc		
STRUKTUR	YOGA A.H. ST., M.Eng		
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng		
DIGAMBAR			
JUDUL GAMBAR		SKALA	
RENCANA GROUNDING LANTAI BASEMENT		1 : 200	
CATATAN/ KETERANGAN			
REVISI			
NO.	URAIAN	TANGGAL	PARAF
KODE GAMBAR	NO. GAMBAR	JML. LEMBAR	
UMY_ADM_STDR			
EL-PP	2		



**RENCANA TRAY KABEL LANTAI DASAR**  
SKALA 1 : 200

NAMA BANGUNAN			
<b>GEDUNG ADMISI UMY</b>			
			
UNIVERSITAS MUHAMMADIYAH YOGYAKARTA			
MENGETAHUI/ MENYETUJUI			
<u>Dr. Ir. GUNAWAN BUDIYANTO, M.P.</u> REKTOR			
PENANGGUNG JAWAB			
<u>SRI ATMAJA P. ROSYIDI, M.Sc. Eng., Ph.D.</u> WAKIL REKTOR III			
TIM PERENCANA UMY			
	NAMA	PARAF	
TIM LEADER	BAGUS S. ST., M.Eng		
ARSITEK	ARWAN S. ST., M.Sc		
STRUKTUR	YOGA A.H. ST., M.Eng		
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng		
DIGAMBAR			
JUDUL GAMBAR		SKALA	
RENCANA GROUNDING LANTAI DASAR		1 : 200	
CATATAN/ KETERANGAN			
REVISI			
NO.	URAIAN	TANGGAL	PARAF
KODE GAMBAR	NO. GAMBAR	JML. LEMBAR	
UMY_ADM_STDR			
EL-PP	3		



**RADIUS PENYALUR PETIR**  
SKALA NTS

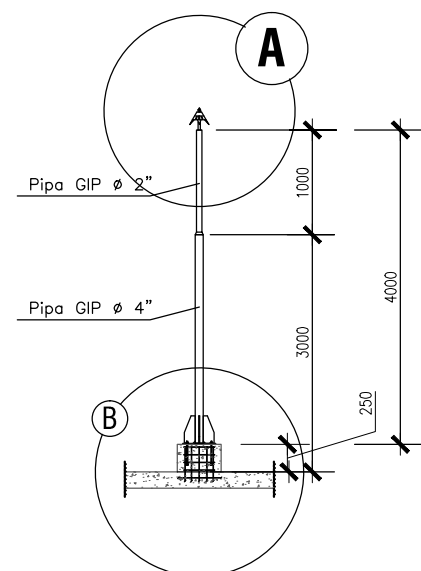
NAMA BANGUNAN			
<b>GEDUNG ADMISI UMY</b>			
UNIVERSITAS MUHAMMADIYAH YOGYAKARTA			
MENGETAHUI/ MENYETUJUI			
<u>Dr. Ir. GUNAWAN BUDIYANTO, M.P.</u> REKTOR			
PENANGGUNG JAWAB			
<u>SRI ATMAJA P. ROSYIDI, M.Sc. Eng., Ph.D.</u> WAKIL REKTOR III			
TIM PERENCANA UMY			
	NAMA	PARAF	
TIM LEADER	BAGUS S. ST., M.Eng		
ARSITEK	ARWAN S. ST., M.Sc		
STRUKTUR	YOGA A.H. ST., M.Eng		
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng		
DIGAMBAR			
JUDUL GAMBAR		SKALA	
RADIUS PENYALUR PETIR		NTS	
CATATAN/ KETERANGAN			
REVISI			
NO.	URAIAN	TANGGAL	PARAF
KODE GAMBAR	NO. GAMBAR	JML. LEMBAR	
UMY_ADM_STDR	EL-PP	4	



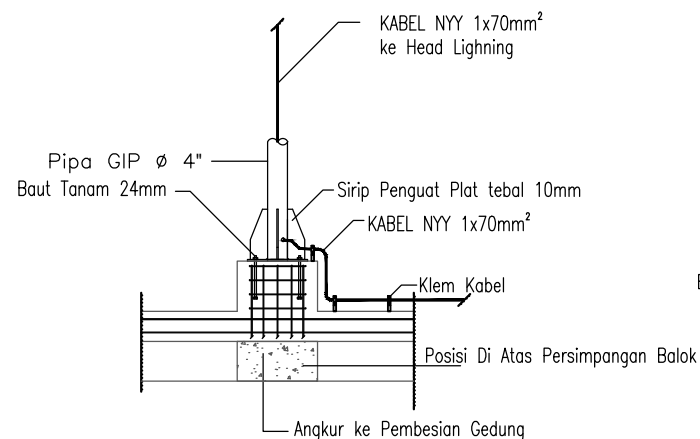
	NAMA	PARAF
TIM LEADER	BAGUS S. ST., M.Eng	
ARSITEK	ARWAN S. ST., M.Sc	
STRUKTUR	YOGA A.H. ST., M.Eng	
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng	
DIGAMBAR		

NO.	URAIAN	TANGGAL	PARAF

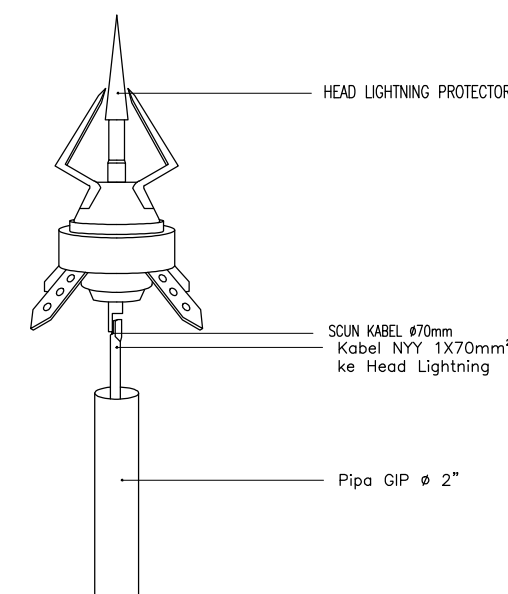
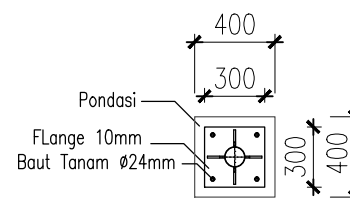
HEAD LIGHTNING PROTECTOR  
"FLASH VECTRON" FV.6



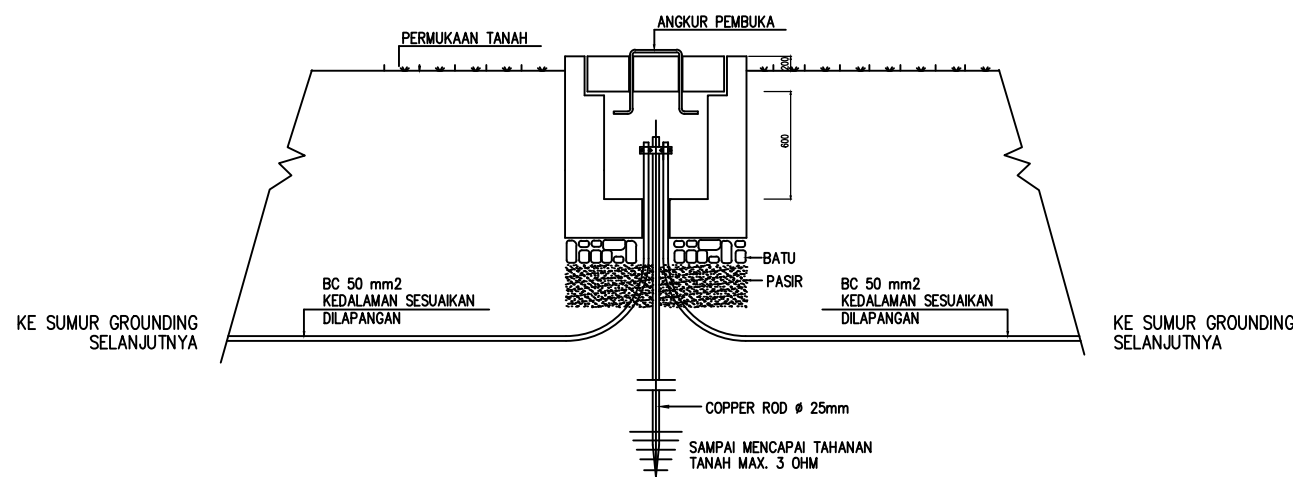
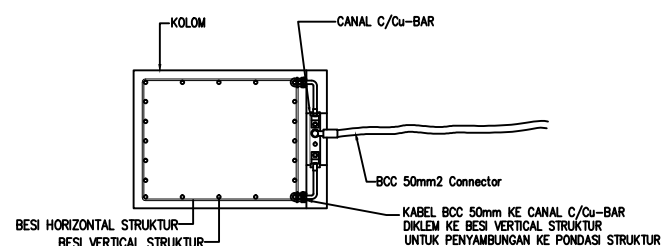
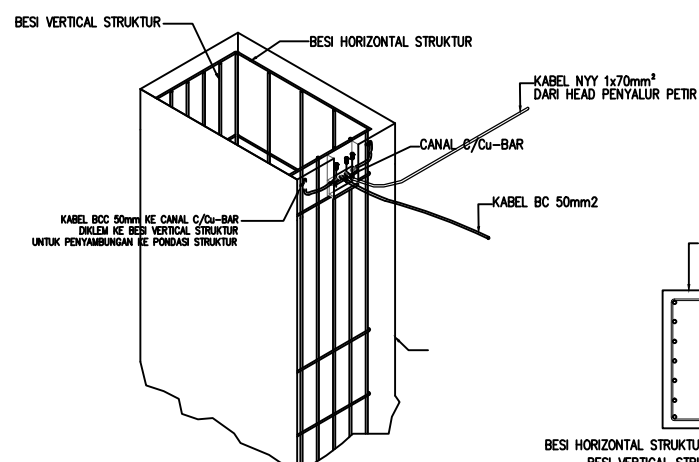
DETIL BAK KONTROL PENTANAHAN PETIR  
SKALA NTS



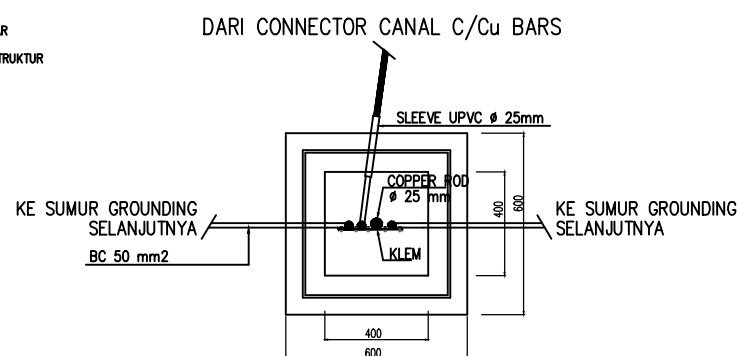
DETIL B



DETIL A

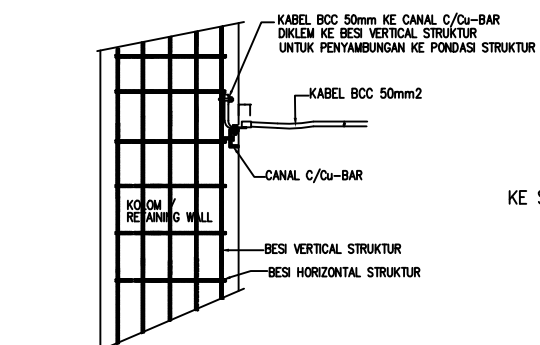


DETIL BAK KONTROL PENTANAHAN PETIR  
SKALA NTS



**STANDAR DETIL PENYALUR PETIR**

SKALA NTS



POTONGAN CONNECTOR KOLOM  
SCALE. NTS

# NYY 1 x (1.5-800) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	6.1	53
2.5	6.6	67
4	7.6	94
6	8.1	117
10	9.1	166
16	10.1	229
25	11.9	345
35	13.0	444
50	15.0	600
70	16.9	815
95	19.1	1,079
120	21.0	1,325
150	23.0	1,604
185	25.5	2,020
240	29.0	2,636
300	32.0	3,219
400	35.5	4,087
500	39.5	5,213
630	44.0	6,712
800	48.5	8,368

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated

#### Note :

##### Conductor Shape

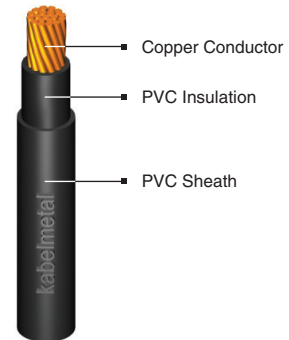
1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm)  
 16 sqmm supplied in non compacted circular stranded (rm) conductor shape  
 25 - 800 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 10 sqmm supplied in coil @ 100 m  
 16 - 300 sqmm supplied in wooden drum @ 1000 m  
 400 - 800 sqmm supplied in wooden drum on available length  
 Length Tolerance per drum ± 2%



### Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Inductance		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec Max. (kA)
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)	Trefoil formation (mH/km)	Flat formation (mH/km)	⊗⊗⊗		⊙⊙⊙		
					in air	in ground	in air	in ground	
1.5	12.1	14.478	0.459	0.505	21	27	21	27	0.17
2.5	7.41	8.866	0.423	0.470	27	35	28	35	0.29
4	4.61	5.516	0.404	0.450	37	46	38	45	0.46
6	3.08	3.685	0.380	0.426	46	57	48	57	0.69
10	1.83	2.190	0.350	0.396	64	76	65	76	1.15
16	1.15	1.376	0.327	0.374	84	98	87	97	1.84
25	0.727	0.870	0.312	0.358	114	127	117	125	2.88
35	0.524	0.627	0.299	0.345	140	152	144	150	4.03
50	0.387	0.464	0.290	0.336	172	180	177	178	5.75
70	0.268	0.321	0.280	0.326	218	220	225	218	8.05
95	0.193	0.232	0.274	0.321	270	264	278	260	10.93
120	0.153	0.184	0.269	0.315	315	300	325	296	13.80
150	0.124	0.150	0.266	0.313	362	336	373	331	17.25
185	0.0991	0.121	0.264	0.310	420	379	433	374	21.28
240	0.0754	0.093	0.261	0.307	503	439	518	432	27.60
300	0.0601	0.075	0.258	0.305	580	494	598	486	34.50
400	0.0470	0.061	0.256	0.302	674	558	695	549	41.20
500	0.0366	0.049	0.252	0.299	781	629	806	618	51.50
630	0.0283	0.041	0.247	0.293	901	704	930	692	64.89
800	0.0221	0.035	0.242	0.289	1018	775	1052	762	82.40

\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

# NYY 2 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

**Cu / PVC / PVC**

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	12.5	200
2.5	13.4	242
4	15.4	330
6	16.5	399
10	18.4	538
16	20.5	713
25	24.0	1,001
35	26.0	1,274
50	29.5	1,536
70	33.0	2,066
95	37.5	2,787
120	41.0	3,371
150	45.0	4,114
185	50.0	5,128
240	56.0	6,581
300	62.0	8,130

### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

### Special Features on Request :

- Tinned Coated Copper Conductor
- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated

### Note :

#### Conductor Shape

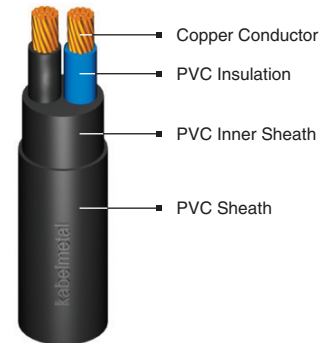
1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape  
16 sqmm supplied in non compacted circular stranded (rm) conductor shape  
25 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

#### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

#### Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m  
150 - 300 sqmm will be supplied in wooden drum on available length  
Length Tolerance per drum ± 2%



## Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Inductance (mH/km)	Current - Carrying Capacity at 30°C *		Short circuit current at 1 sec (kA)
	DC Resistance at 20°C	AC Resistance at 70°C		Capacity		
				in air	in ground	
Max. (Ω/km)	Max. (Ω/km)	Max. (A)	Max. (A)	Max. (kA)		
1.5	12.1	14.478	0.328	23	27	0.17
2.5	7.41	8.866	0.304	30	36	0.29
4	4.61	5.516	0.303	40	47	0.46
6	3.08	3.685	0.288	51	59	0.69
10	1.83	2.190	0.269	70	80	1.15
16	1.15	1.376	0.255	93	104	1.84
25	0.727	0.870	0.255	123	134	2.88
35	0.524	0.627	0.246	151	162	4.03
50	0.387	0.464	0.247	182	191	5.75
70	0.268	0.321	0.238	230	236	8.05
95	0.193	0.232	0.238	280	281	10.93
120	0.153	0.184	0.233	325	321	13.80
150	0.124	0.150	0.233	371	361	17.25
185	0.0991	0.121	0.233	424	406	21.28
240	0.0754	0.093	0.232	501	470	27.60
300	0.0601	0.075	0.231	572	528	34.50

\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

# NYY 3 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	13.0	224
2.5	14.0	277
4	16.1	383
6	17.3	471
10	19.4	649
16	22.0	875
25	25.0	1,248
35	27.5	1,606
50	30.0	1,857
70	34.0	2,556
95	38.5	3,428
120	41.5	4,152
150	46.0	5,115
185	50.5	6,330
240	57.0	8,215
300	62.5	10,116

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated

#### Note :

##### Conductor Shape

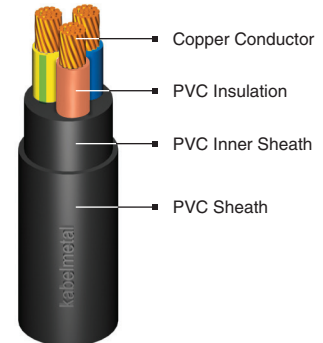
- 1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
- 16 sqmm supplied in non compacted circular stranded (rm) conductor shape
- 25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape
- 50 - 300 sqmm supplied in sector shaped stranded (sm) conductor

#### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

#### Standard Packing

- 1.5 - 95 sqmm supplied in wooden drum @ 1000 m
- 120 - 300 sqmm will be supplied in wooden drum on available length
- Length Tolerance per drum ± 2%



### Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Inductance (mH/km)	Current - Carrying Capacity at 30°C *		Short circuit current at 1 sec Max. (kA)
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)		Capacity		
				in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	0.328	19	23	0.17
2.5	7.41	8.866	0.304	26	31	0.29
4	4.61	5.516	0.303	34	40	0.46
6	3.08	3.685	0.288	44	50	0.69
10	1.83	2.190	0.269	60	68	1.15
16	1.15	1.376	0.255	79	88	1.84
25	0.727	0.870	0.255	105	114	2.88
35	0.524	0.627	0.246	129	137	4.03
50	0.387	0.464	0.247	162	168	5.75
70	0.268	0.321	0.238	203	206	8.05
95	0.193	0.232	0.238	250	247	10.93
120	0.153	0.184	0.233	289	281	13.80
150	0.124	0.150	0.233	330	315	17.25
185	0.0991	0.121	0.233	381	356	21.28
240	0.0754	0.093	0.232	451	412	27.60
300	0.0601	0.075	0.231	517	464	34.50

\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



# NYY 4 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

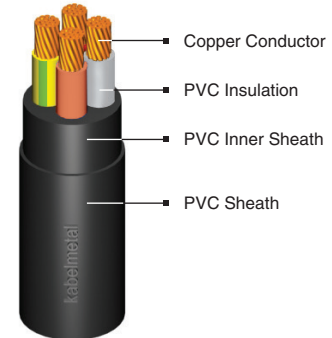
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	13.8	259
2.5	15.0	324
4	17.3	453
6	18.7	563
10	21.5	794
16	23.5	1,083
25	27.5	1,558
35	30.0	2,018
50	35.5	2,466
70	39.0	3,334
95	44.5	4,491
120	48.5	5,504
150	54.5	6,787
185	59.0	8,392
240	66.0	10,818
300	72.5	13,326

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated



#### Note :

##### Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape  
 16 sqmm supplied in non compacted circular stranded (rm) conductor shape  
 25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape  
 50 - 300 sqmm supplied in sector shaped stranded (sm) conductor

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 m  
 95 - 300 sqmm will be supplied in wooden drum on available length  
 Length Tolerance per drum ± 2%

### Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Inductance (mH/km)	Current - Carrying Capacity at 30°C *		Short circuit current at 1 sec Max. (kA)
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)		Capacity		
				in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	0.328	22	27	0.17
2.5	7.41	8.866	0.304	29	35	0.29
4	4.61	5.516	0.303	39	46	0.46
6	3.08	3.685	0.288	50	57	0.69
10	1.83	2.190	0.269	68	77	1.15
16	1.15	1.376	0.255	90	99	1.84
25	0.727	0.870	0.255	121	128	2.88
35	0.524	0.627	0.246	149	154	4.03
50	0.387	0.464	0.247	173	173	5.75
70	0.268	0.321	0.238	215	212	8.05
95	0.193	0.232	0.238	266	255	10.93
120	0.153	0.184	0.233	308	289	13.80
150	0.124	0.150	0.233	357	327	17.25
185	0.0991	0.121	0.233	405	366	21.28
240	0.0754	0.093	0.232	482	425	27.60
300	0.0601	0.075	0.231	552	479	34.50

\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

# NYY 5 x (1.5-50) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

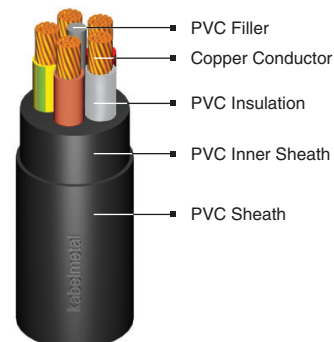
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	14.8	302
2.5	16.0	382
4	18.7	541
6	20.5	677
10	23.0	954
16	26.0	1,309
25	30.0	1,895
35	33.0	2,478
50	38.0	3,161

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated



#### Note :

##### Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape  
16 sqmm supplied in non compacted circular stranded (rm) conductor shape  
25 - 50 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m  
Length Tolerance per drum ± 2%

### Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Inductance (mH/km)	Current - Carrying Capacity at 30°C *		Short circuit current at 1 sec Max. (kA)
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)		Capacity		
				in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	0.328	23	27	0.17
2.5	7.41	8.866	0.304	30	36	0.29
4	4.61	5.516	0.303	41	47	0.46
6	3.08	3.685	0.288	52	59	0.69
10	1.83	2.190	0.269	71	78	1.15
16	1.15	1.376	0.255	94	101	1.84
25	0.727	0.870	0.255	126	131	2.88
35	0.524	0.627	0.246	155	157	4.03
50	0.387	0.464	0.247	189	185	5.75

\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information