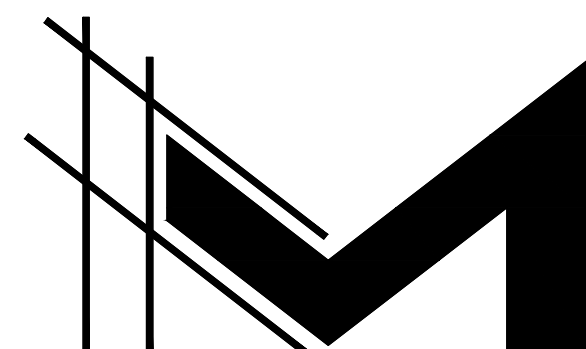




Enter Ethiopia - Productive Use Of Energy(PUE) Hub

Shedder Kebele, Awa bare Woreda,
Somali Region of Ethiopia

ELECTRICAL DESIGN

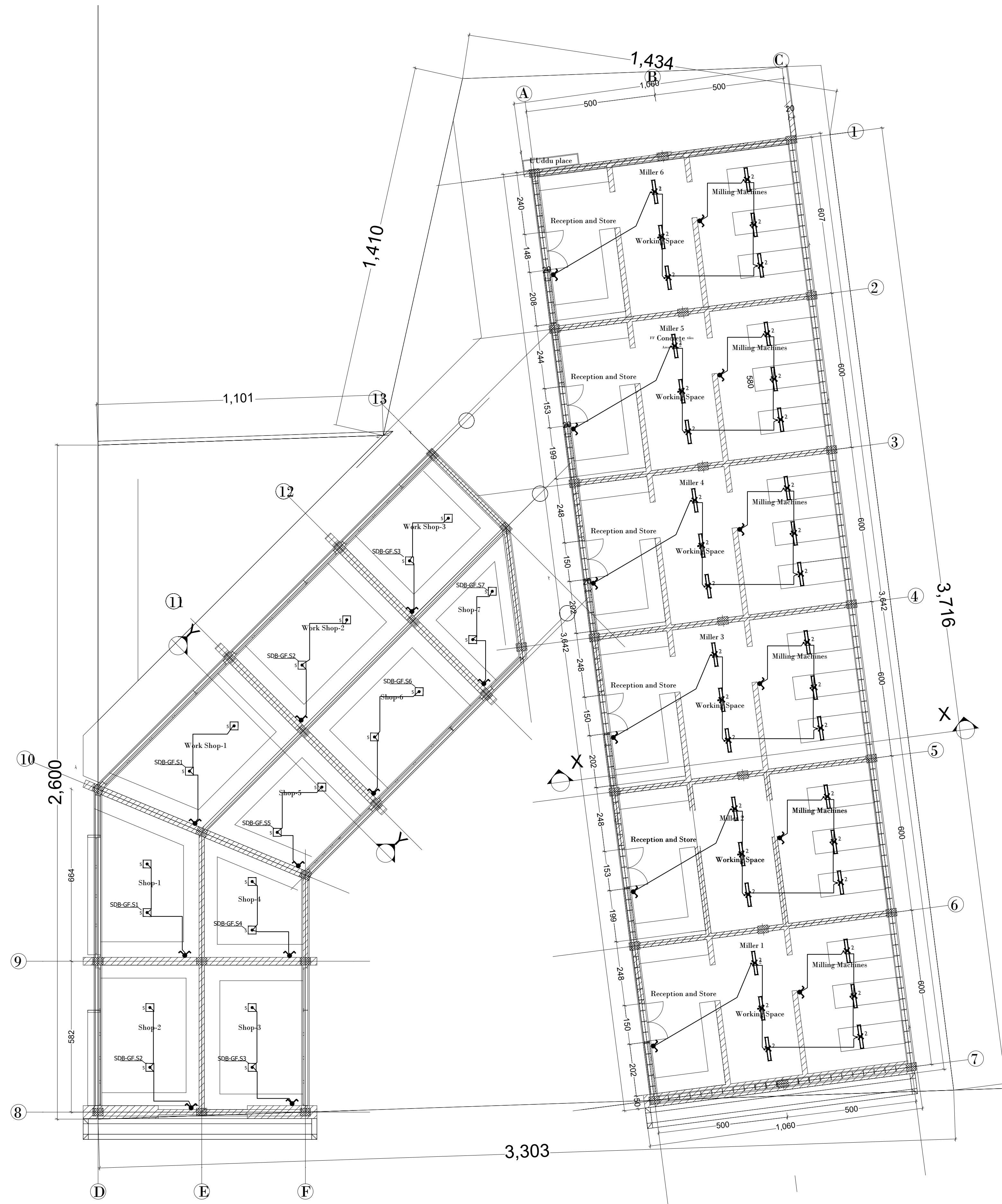


MAEZEN ARCHITECTS

Location:- Addis Ababa, Ethiopia

Tell:- +251913 093 832

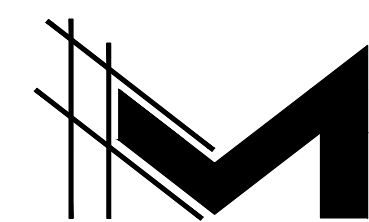
Email:- birukhm@rocketmail.com



Lighting & Switches Layouts



Enter-Ethiopia(EE)- Productive Use Of Energy(PUE) Hub



MAEZEN ARCHITECTS

Location:- Addis Ababa, Ethiopia
 Tell:- +251913 093 832
 Email:- birukhm@rocketmail.com

Project:
 EE -Productive Use of Energy
 (PUE) Hub- Design

☒ New ☐ Modification ☐ As-built
☐ Schematic ☐ Preliminary ☐ Final

OWNER
 Mercy Corps

Location
 Shedder Kebele, Awa bare Woreda,
 Somali Region of Ethiopia

Design By
 BIRUK ABEBAW PEE/20420

Drawn by :

Check By
 Biruk H/Mariyam PPAR/1955

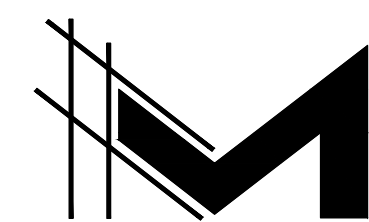
Drawing Title:
LIGHT POINTS

Drawing No EL-01/03

Date:- Feb, 2023



Enter-Ethiopia(EE)- Productive Use Of Energy(PUE) Hub



MAEZEN ARCHITECTS

Location:- Addis Ababa, Ethiopia
Tell:- +251913 093 832
Email:- birukhm@rocketmail.com

Project:
EE -Productive Use of Energy
(PUE) Hub- Design

New ☒ Modification ☐ As-built ☐
Schematic ☐ Preliminary ☐ Final ☐

OWNER
Mercy Corps

Location
Shedder Kebele, Awa bare Woreda,
Somali Region of Ethiopia

Design By
BIRUK ABEBAW PEE/20420

Drawn by :

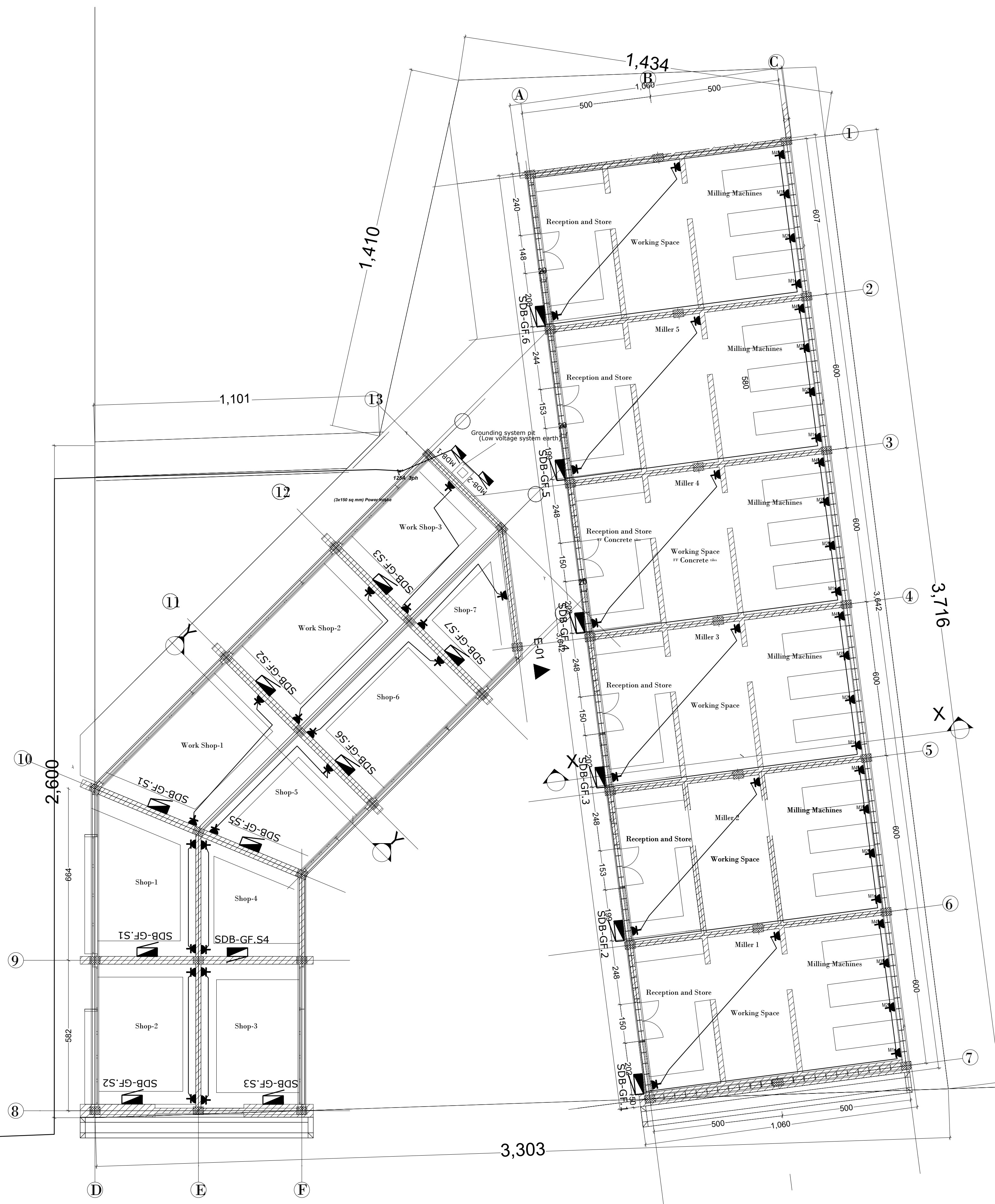
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Drawing Title:
SOCKET LAYOUT

Drawing No

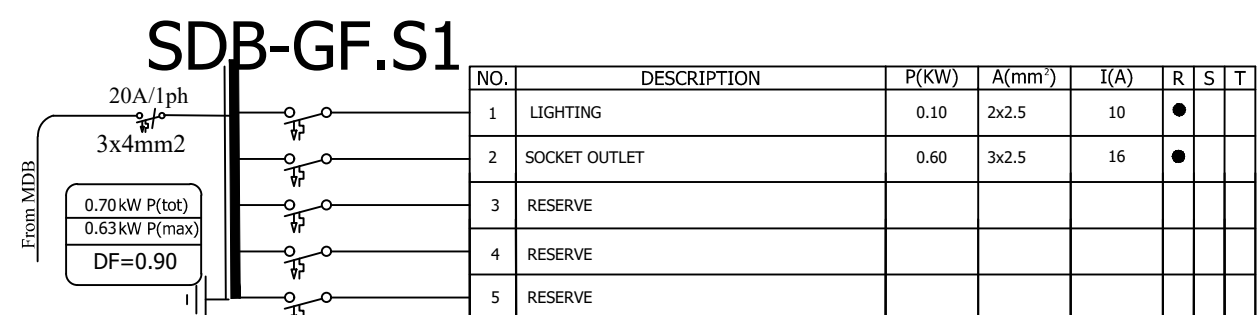
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Date:- Feb, 2023

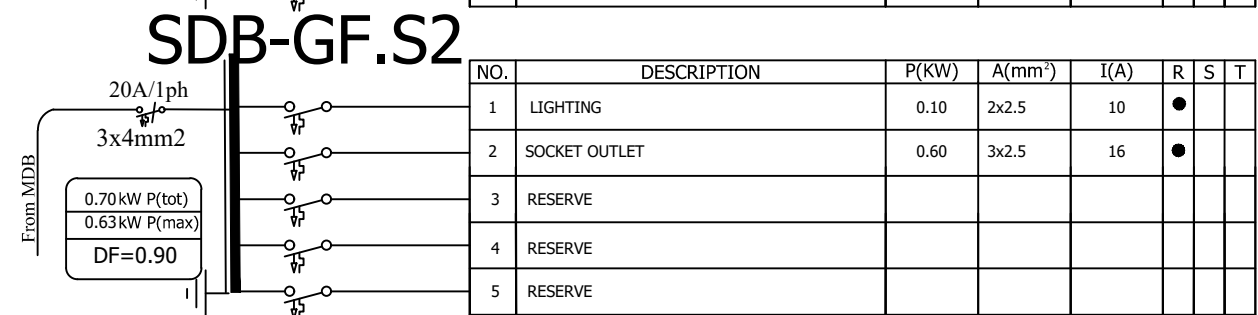


Power Intake PVC Pipe Ø 50mm
Supply System
(incoming Direction Indicative)

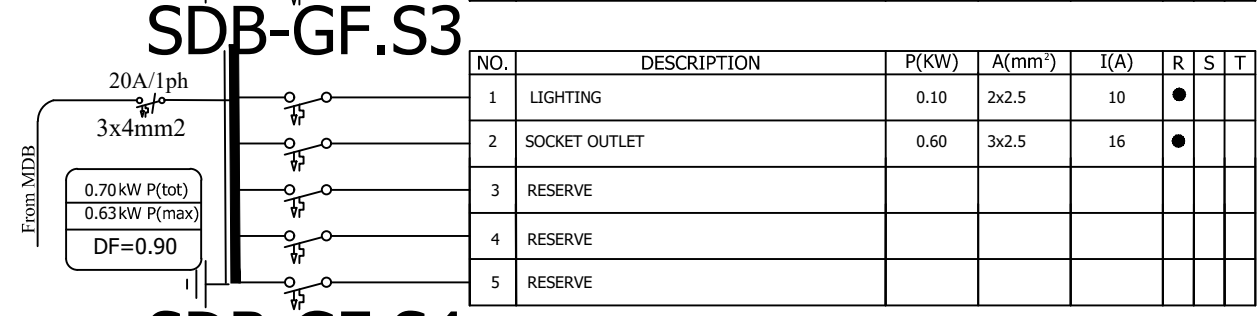
Socket Layout & SDB Locations



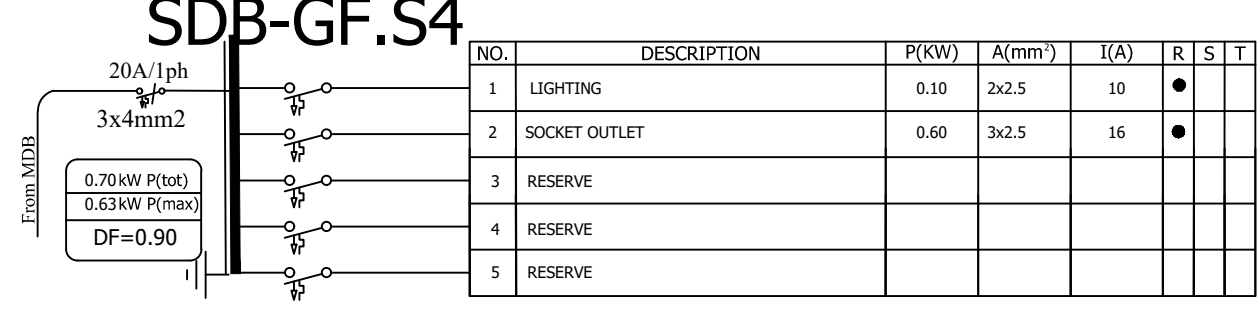
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.10	2x2.5	10	●		
2	SOCKET OUTLET	0.60	3x2.5	16	●		
3	RESERVE						
4	RESERVE						
5	RESERVE						



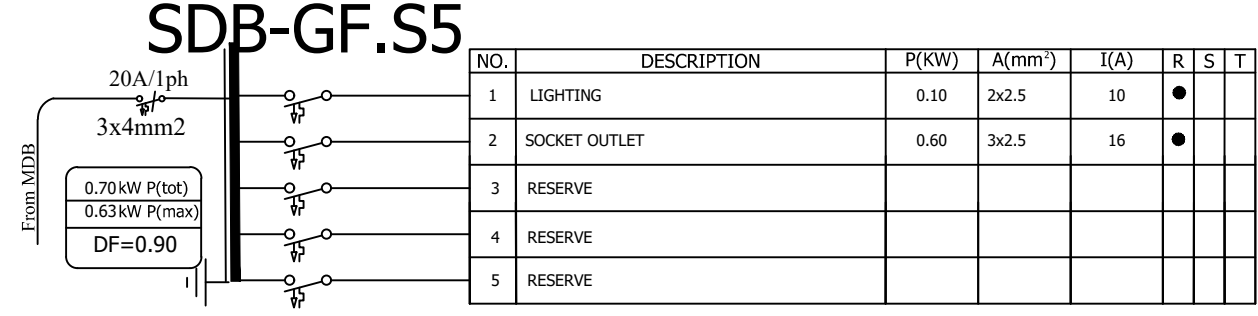
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.10	2x2.5	10	●		
2	SOCKET OUTLET	0.60	3x2.5	16	●		
3	RESERVE						
4	RESERVE						
5	RESERVE						



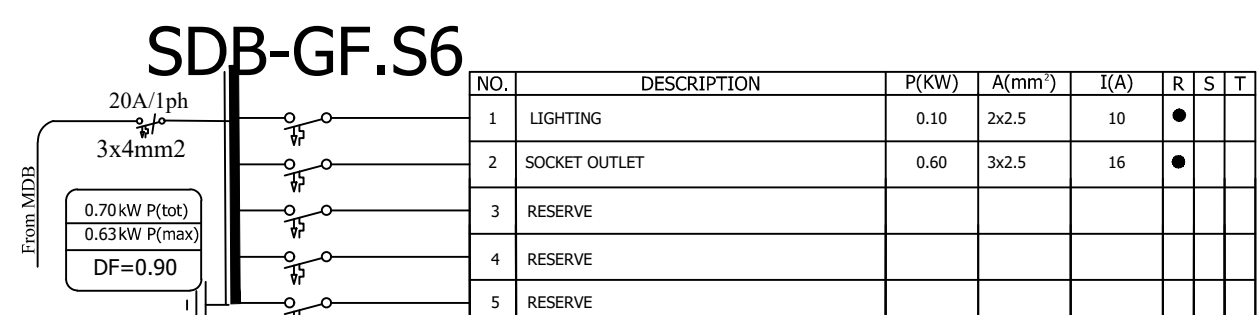
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.10	2x2.5	10	●		
2	SOCKET OUTLET	0.60	3x2.5	16	●		
3	RESERVE						
4	RESERVE						
5	RESERVE						



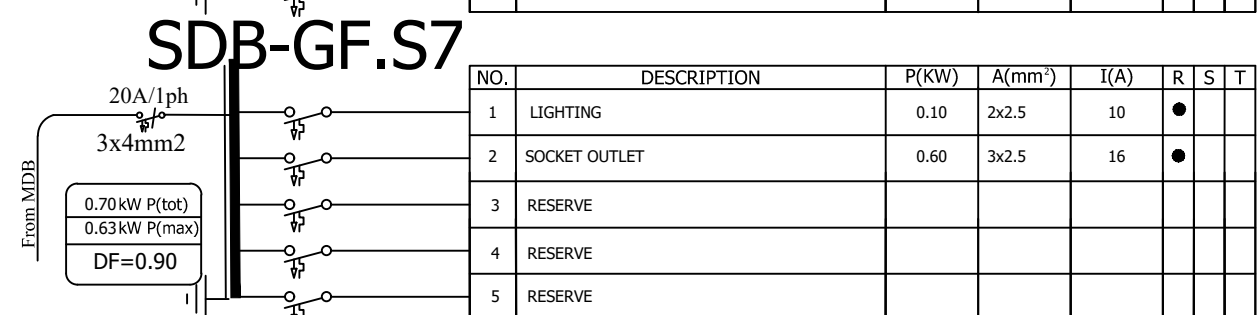
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.10	2x2.5	10	●		
2	SOCKET OUTLET	0.60	3x2.5	16	●		
3	RESERVE						
4	RESERVE						
5	RESERVE						



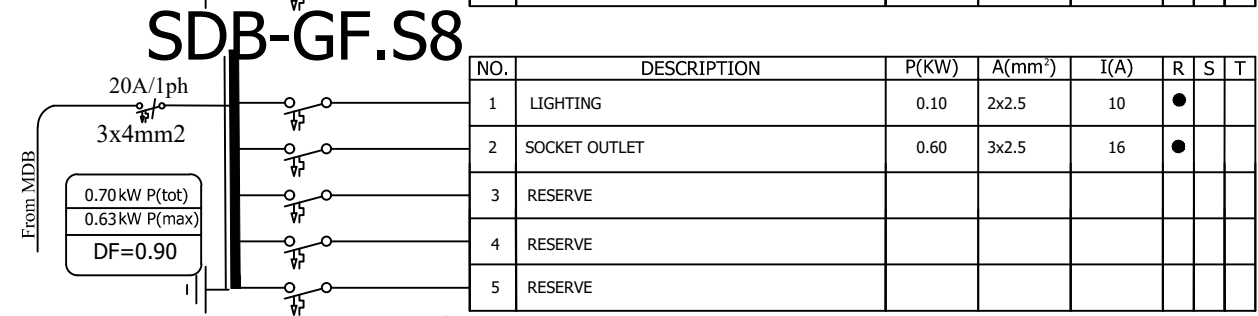
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.10	2x2.5	10	●		
2	SOCKET OUTLET	0.60	3x2.5	16	●		
3	RESERVE						
4	RESERVE						
5	RESERVE						



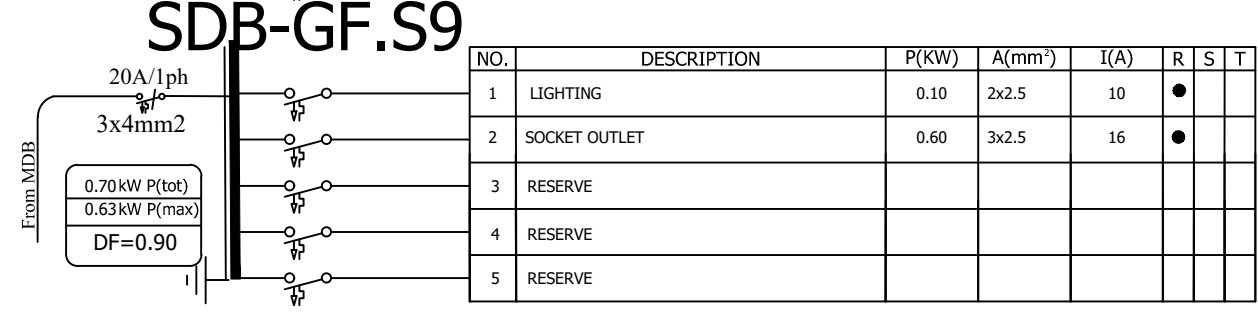
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.10	2x2.5	10	●		
2	SOCKET OUTLET	0.60	3x2.5	16	●		
3	RESERVE						
4	RESERVE						
5	RESERVE						



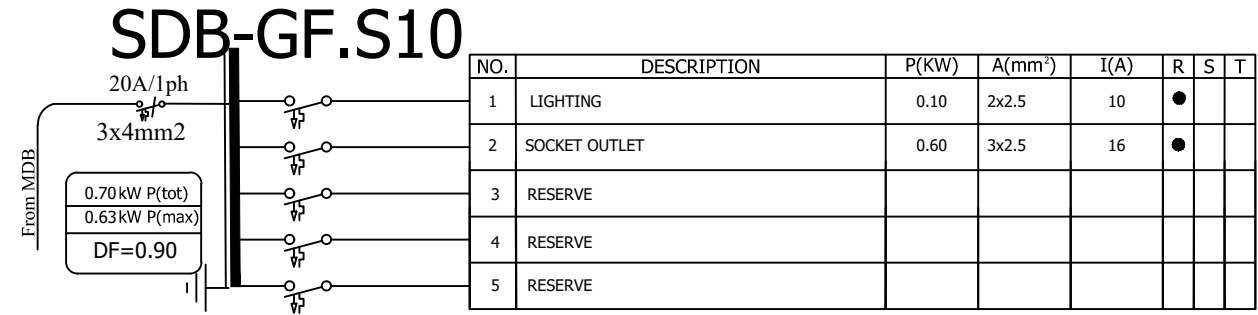
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.10	2x2.5	10	●		
2	SOCKET OUTLET	0.60	3x2.5	16	●		
3	RESERVE						
4	RESERVE						
5	RESERVE						



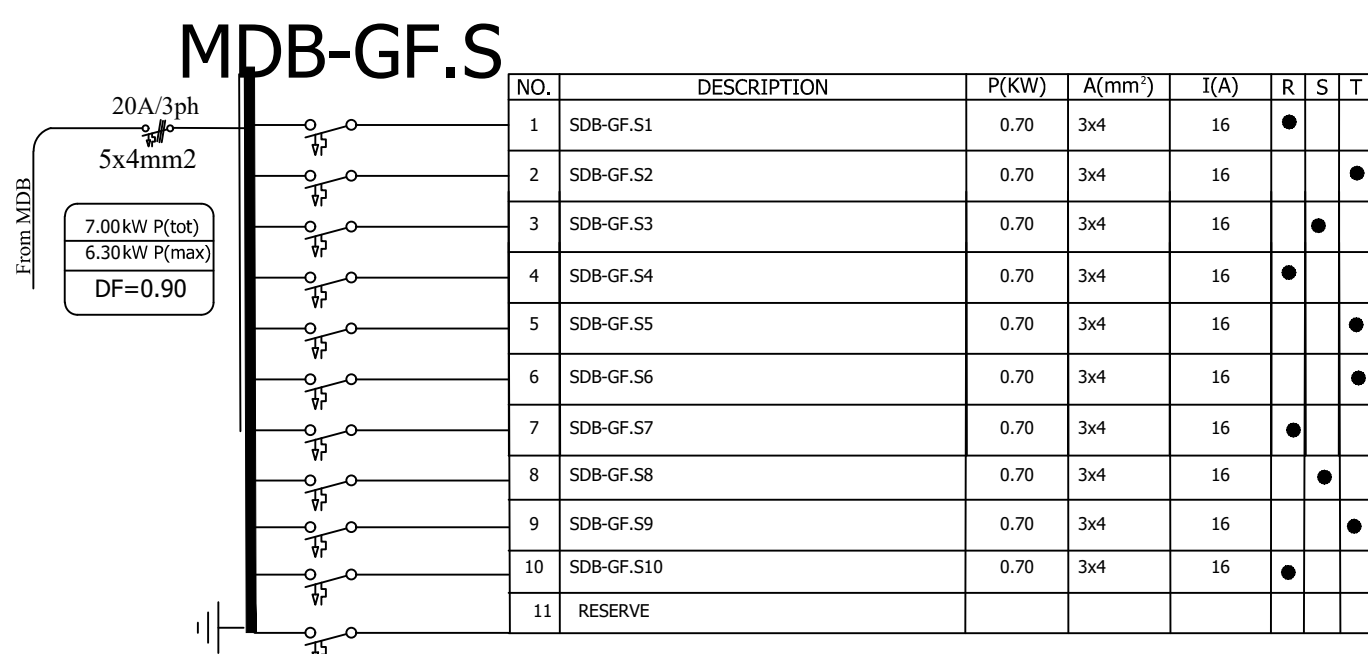
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.10	2x2.5	10	●		
2	SOCKET OUTLET	0.60	3x2.5	16	●		
3	RESERVE						
4	RESERVE						
5	RESERVE						



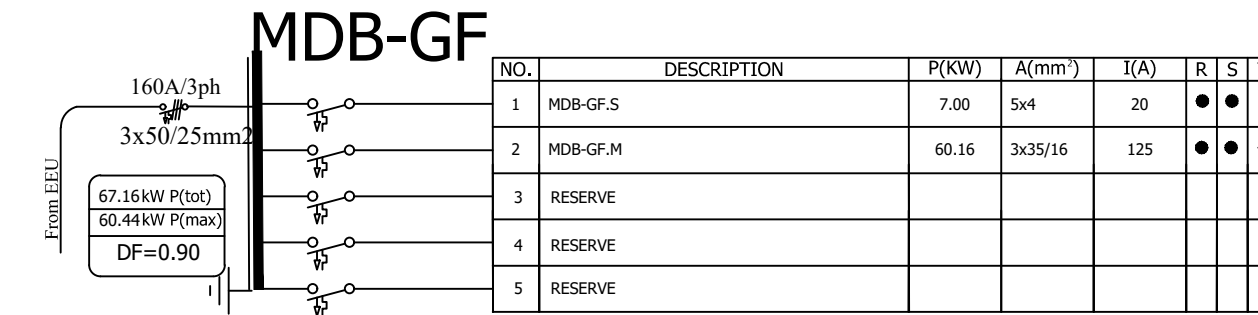
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.10	2x2.5	10	●		
2	SOCKET OUTLET	0.60	3x2.5	16	●		
3	RESERVE						
4	RESERVE						
5	RESERVE						



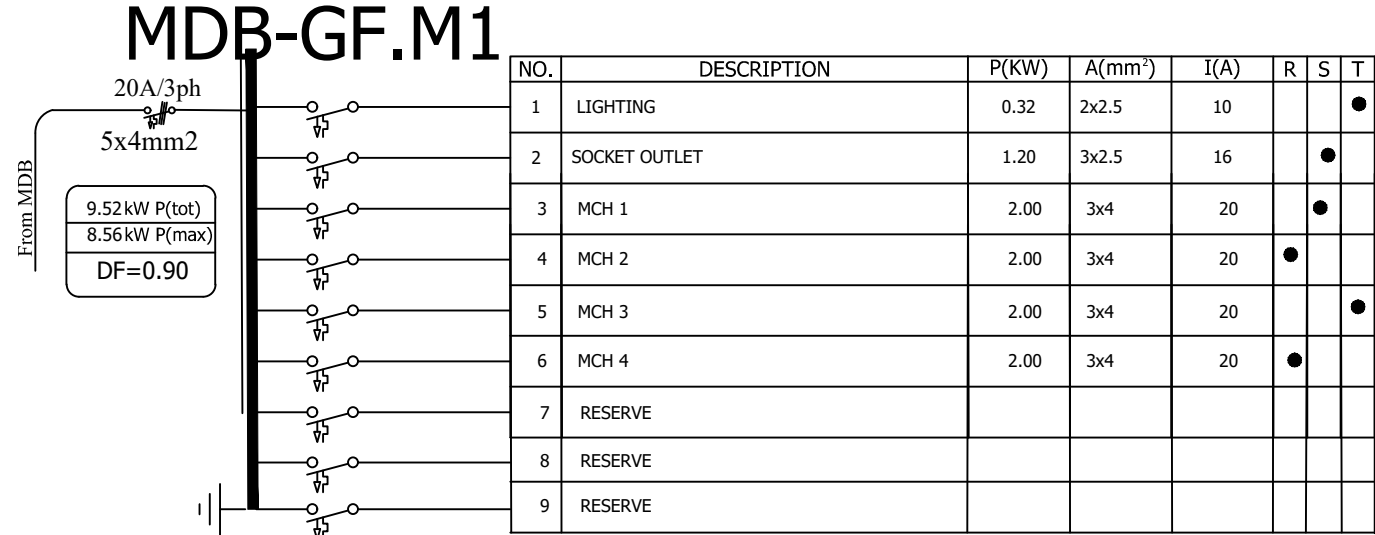
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.10	2x2.5	10	●		
2	SOCKET OUTLET	0.60	3x2.5	16	●		
3	RESERVE						
4	RESERVE						
5	RESERVE						



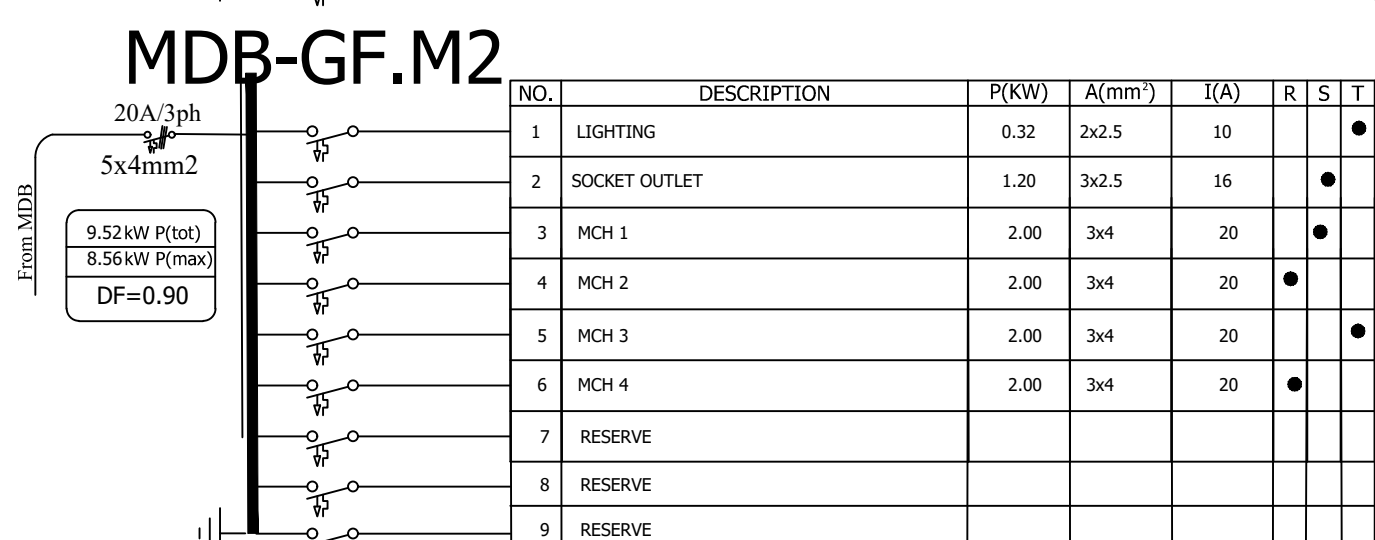
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	SDB-GF.S1	0.70	3x4	16	●	●	
2	SDB-GF.S2	0.70	3x4	16		●	●
3	SDB-GF.S3	0.70	3x4	16	●		●
4	SDB-GF.S4	0.70	3x4	16		●	●
5	SDB-GF.S5	0.70	3x4	16	●		●
6	SDB-GF.S6	0.70	3x4	16		●	●
7	SDB-GF.S7	0.70	3x4	16	●		●
8	SDB-GF.S8	0.70	3x4	16		●	●
9	SDB-GF.S9	0.70	3x4	16	●		●
10	SDB-GF.S10	0.70	3x4	16		●	●
11	RESERVE						



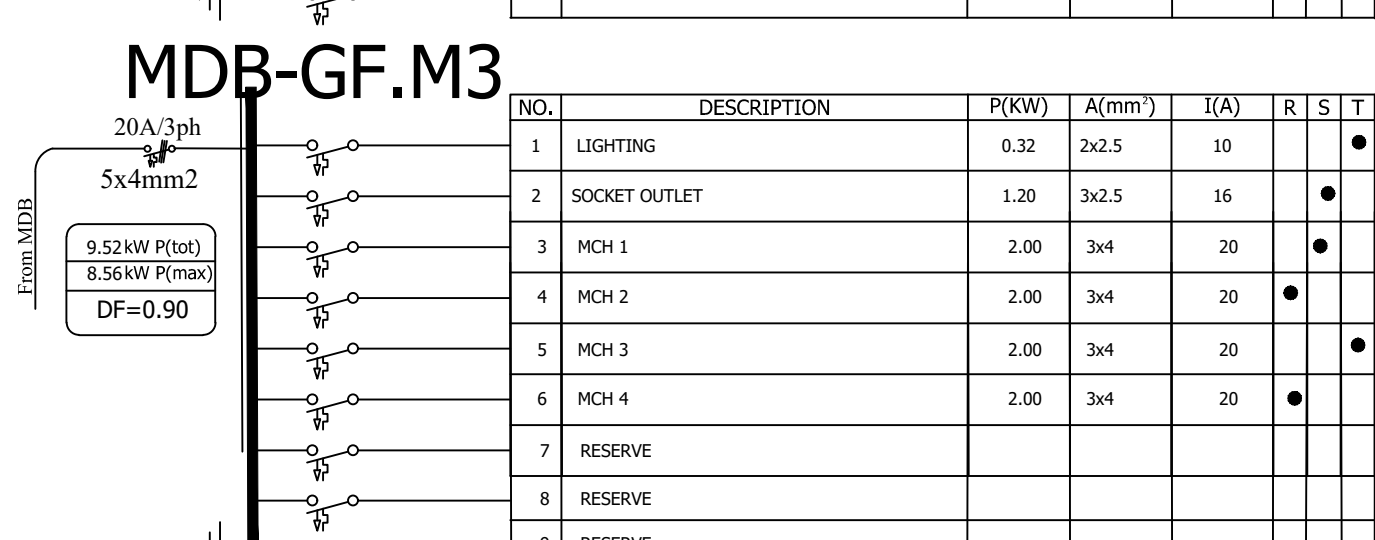
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	MDB-GF.S	7.00	5x4	20	●	●	●
2	MDB-GF.M	60.16	3x35/16	125	●	●	●
3	RESERVE						
4	RESERVE						
5	RESERVE						



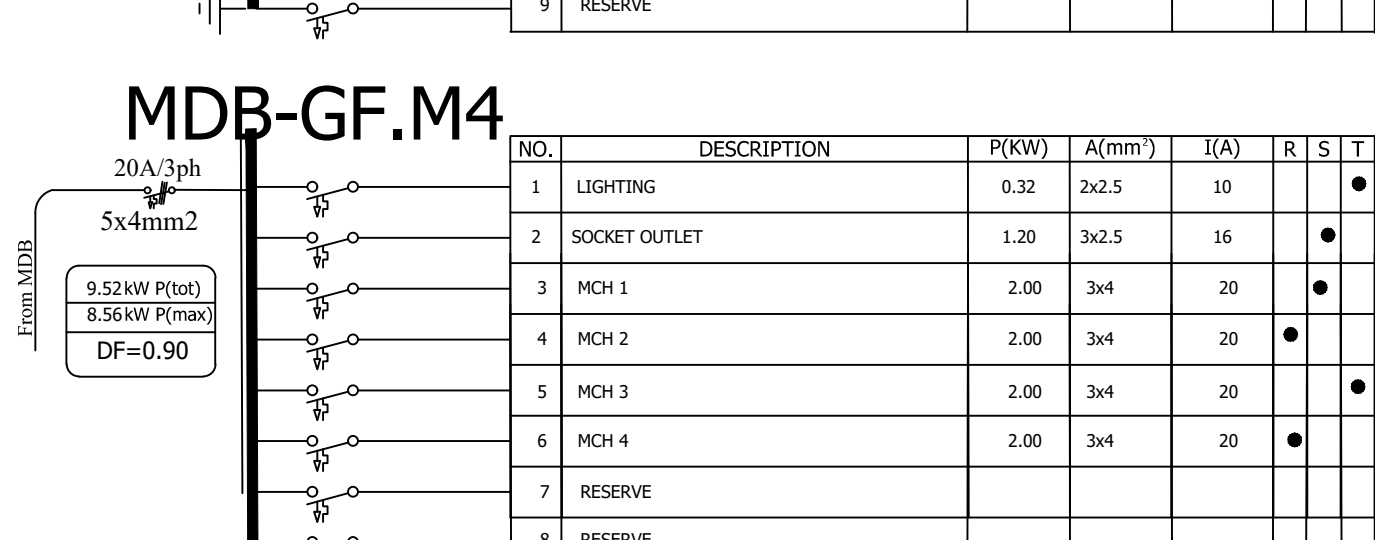
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.32	2x2.5	10	●		
2	SOCKET OUTLET	1.20	3x2.5	16	●		
3	MCH 1	2.00	3x4	20	●		
4	MCH 2	2.00	3x4	20	●		
5	MCH 3	2.00	3x4	20	●		
6	MCH 4	2.00	3x4	20	●		
7	RESERVE						
8	RESERVE						
9	RESERVE						



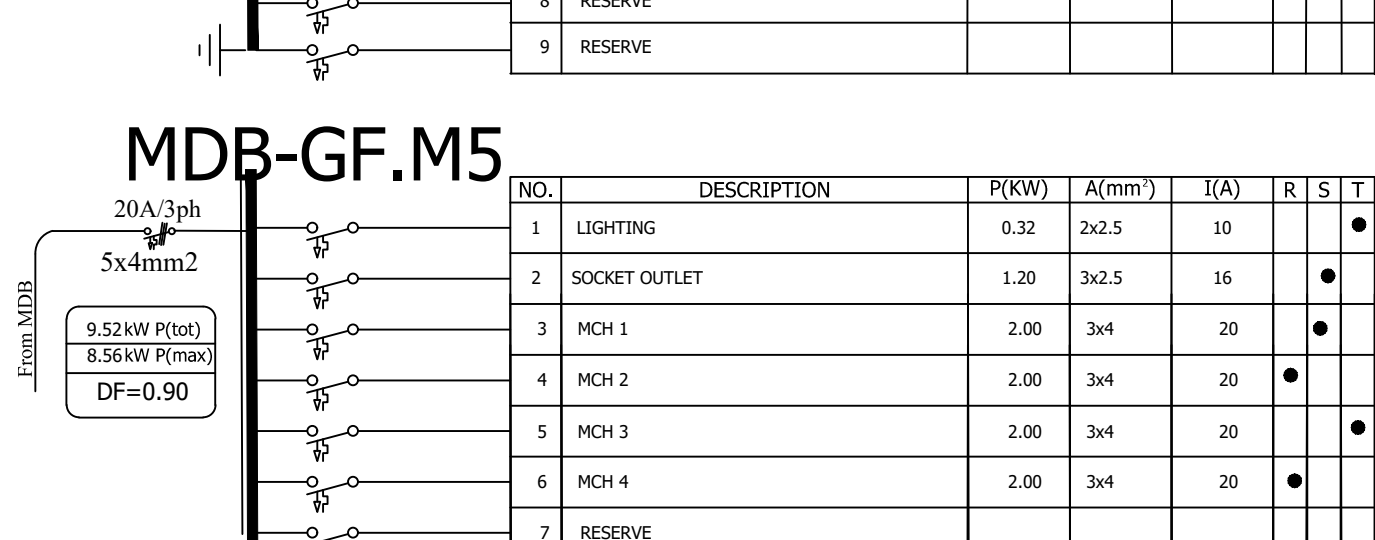
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.32	2x2.5	10	●		
2	SOCKET OUTLET	1.20	3x2.5	16	●		
3	MCH 1	2.00	3x4	20	●		
4	MCH 2	2.00	3x4	20	●		
5	MCH 3	2.00	3x4	20	●		
6	MCH 4	2.00	3x4	20	●		
7	RESERVE						
8	RESERVE						
9	RESERVE						



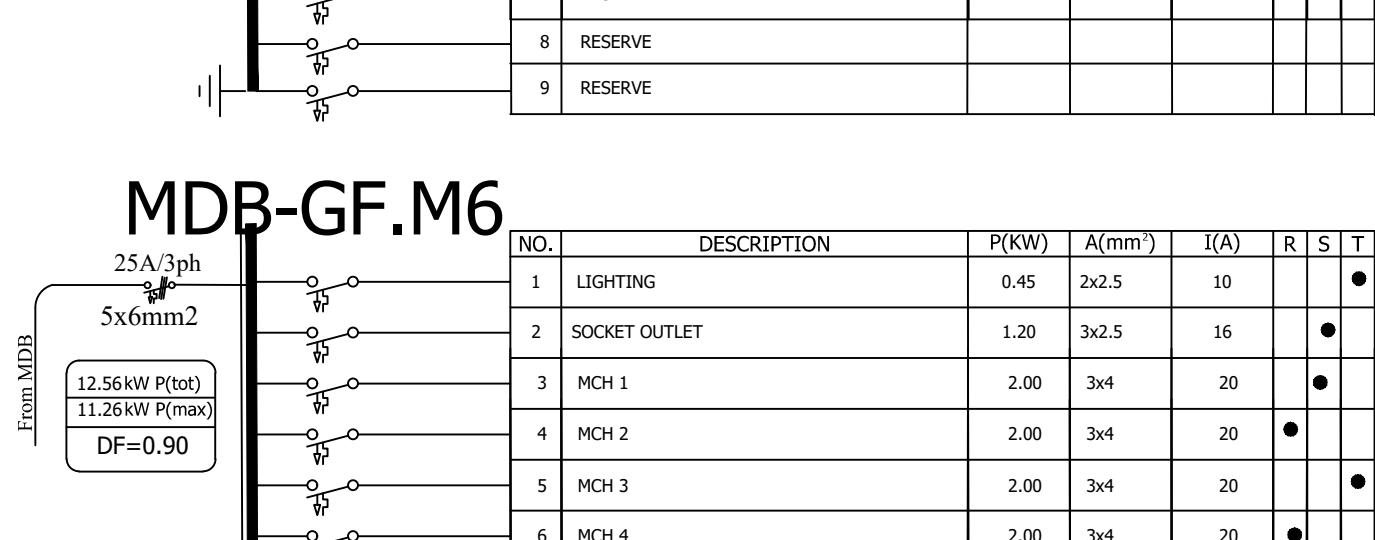
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.32	2x2.5	10	●		
2	SOCKET OUTLET	1.20	3x2.5	16	●		
3	MCH 1	2.00	3x4	20	●		
4	MCH 2	2.00	3x4	20	●		
5	MCH 3	2.00	3x4	20	●		
6	MCH 4	2.00	3x4	20	●		
7	RESERVE						
8	RESERVE						
9	RESERVE						



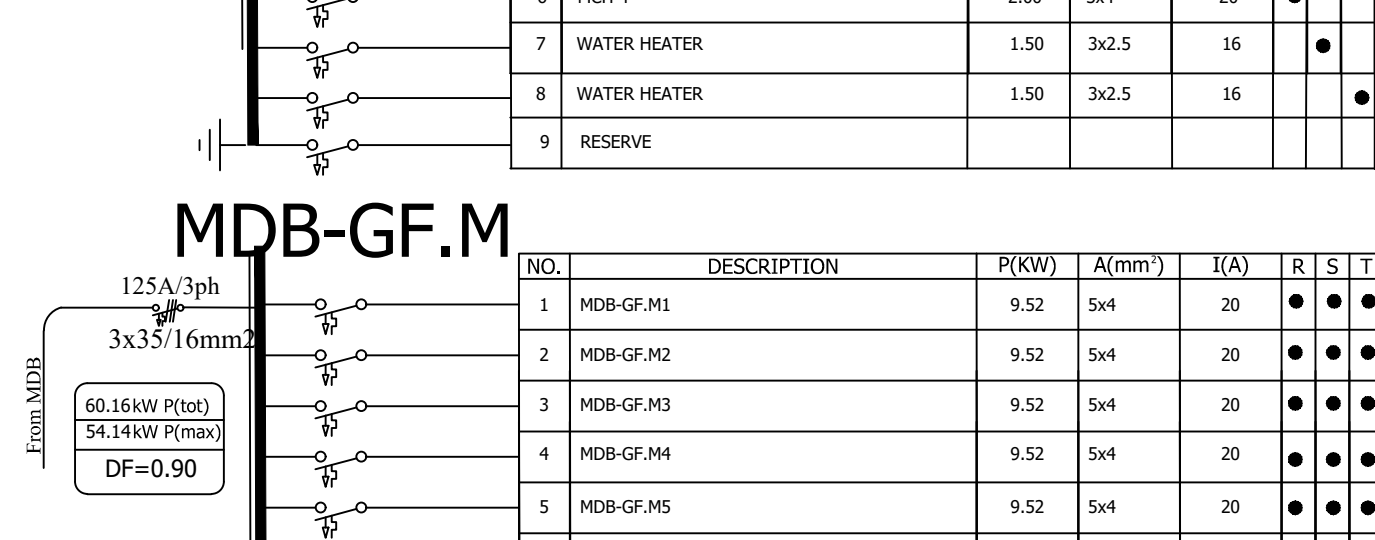
NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.32	2x2.5	10	●		
2	SOCKET OUTLET	1.20	3x2.5	16	●		
3	MCH 1	2.00	3x4	20	●		
4	MCH 2	2.00	3x4	20	●		
5	MCH 3	2.00	3x4	20	●		
6	MCH 4	2.00	3x4	20	●		
7	RESERVE						
8	RESERVE						
9	RESERVE						



NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.32	2x2.5	10	●		
2	SOCKET OUTLET	1.20	3x2.5	16	●		
3	MCH 1	2.00	3x4	20	●		
4	MCH 2	2.00	3x4	20	●		
5	MCH 3	2.00	3x4	20	●		
6	MCH 4	2.00	3x4	20	●		
7	RESERVE						
8	RESERVE						
9	RESERVE						



NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	LIGHTING	0.45	2x2.5	10	●		
2	SOCKET OUTLET	1.20	3x2.5	16	●		
3	MCH 1	2.00	3x4	20	●		
4	MCH 2	2.00	3x4	20	●		
5	MCH 3	2.00	3x4	20	●		
6	MCH 4	2.00	3x4	20	●		
7	WATER HEATER	1.50	3x2.5	16	●		
8	WATER HEATER	1.50	3x2.5	16	●		
9	RESERVE						

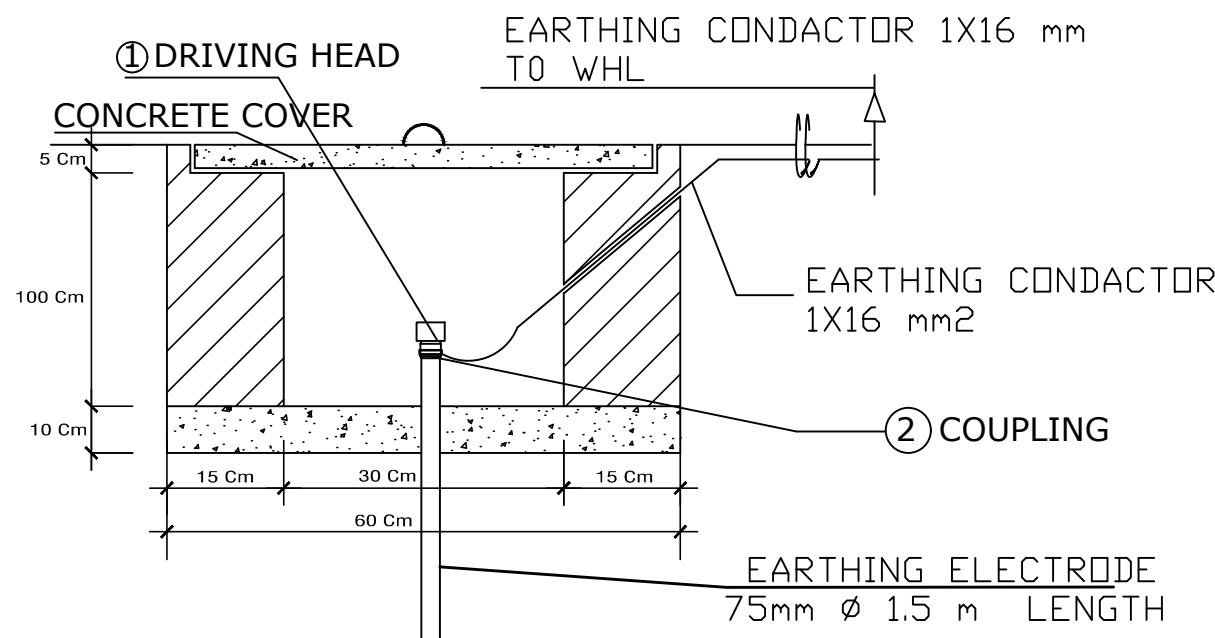


NO.	DESCRIPTION	P(KW)	A(mm²)	I(A)	R	S	T
1	MDB-GF.M1	9.52	5x4	20	●	●	●
2	MDB-GF.M2	9.52	5x4	20	●	●	●
3	MDB-GF.M3	9.52	5x4	20	●	●	●
4	MDB-GF.M4	9.52	5x4	20	●	●	●
5	MDB-GF.M5	9.52	5x4	20	●	●	●
6	MDB-GF.M6	12.56	5x6	25	●	●	●
7	RESERVE						
8	RESERVE						

LIGHT FITTINGS LEGEND

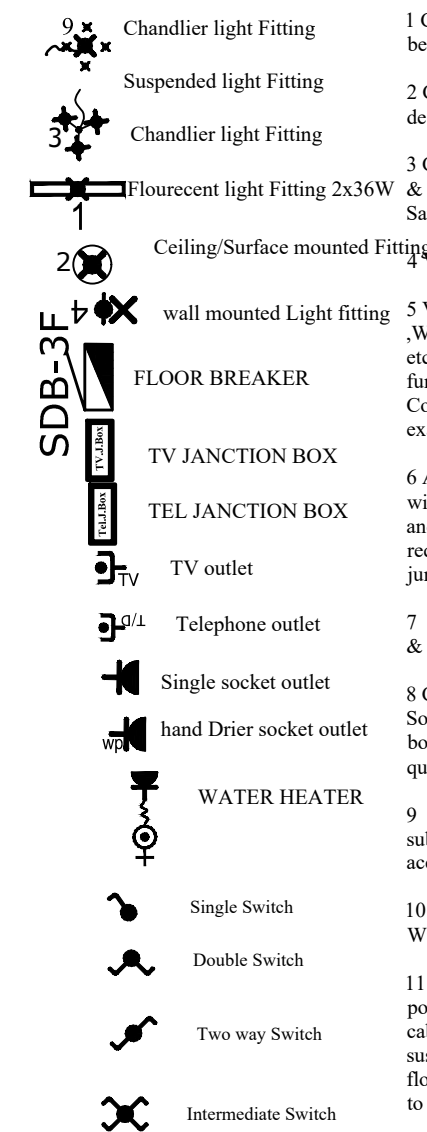
	Chandelier fittings Each having five 1x40W lamps
	Chandelier fittings Each having three 1x40W lamps
	2x36W surface mounted fluorescent light fixture.
	1x36W surface mounted fluorescent light fixture.
	1x32W ceiling mounted circular fluorescent light fixture, WP
	1x18W wall mounted light fixture
	1x18W wall mounted mirror light fixture, WP
	1x20W wall mounted rechargeable emergency light fixture.
	1x20W surface mounted rechargeable exit light fixture.

Grounding system pit detail (Low voltage system earth)



NOT SCALED

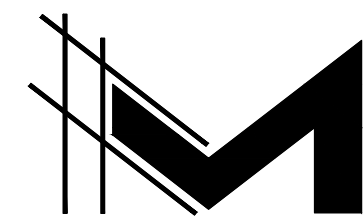
Electrical Legend



ELECTRICAL NOTE:-

- 1 Consider final furniture layouts before installation of light fittings.
- 2 Comply with IP-Class where deemed necessary.
- 3 Coordinate Central Heating power & Fire fitting requirement with Sanitary (Mechanical) layouts.
- 4 Verify load balance on phases
- 5 Verify locations of all socket, data, Wi-Fi, Telephone, TV and CCTV etc. outlets and coordinate with furniture and equipment layouts. Consult the Architect/Owner for exact and final locations of outlets.
- 6 All electrical works shall comply with relevant applicable standards and Code of practices and with requirements of Authority having jurisdiction.
- 7 Do not loop any Tele.Data, CCTV & TV outlets
- 8 Complete labelling works for Socket, Tele.Data, distribution boards & cables should be done with quality approved Sticker & mica
- 9 As-Built drawing should be submitted before provisional acceptance
- 10 Strictly follow color Code For Wiring & Cabling
- 11 consult with the architect for power and low voltage horizontal cable tray at corridors inside suspended ceiling at guest room floors as shown on the drawing (3rd to 10th floor)

MercyCorps



MAEZEN ARCHITECTS

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