



Project No. 2025 - 006

Republic of the Philippines
Department of Education
NATIONAL CAPITAL REGION
SCHOOLS DIVISION OFFICE OF MUNTINLUPA CITY

INVITATION TO BID FOR THE
REPAIR/CONVERSION OF SPED CENTERS INTO
PROTOTYPE INCLUSIVE LEARNING RESOURCE CENTER

1. The **Schools Division Office - Muntinlupa City**, through the **FY 2024 GAA/R.A. No. 11975 (Continuing Appropriations) – BEFF – Inclusive Learning Resource Centers (ILRCs) with Sub-Allotment Releases Order (Sub-ARO) No. OSEC-NCR-25-02041**, intends to apply the sum of **Four Million Three Hundred Twenty Four Thousand Five Pesos and Forty Four Centavos (P 4,324,005.44)** being the ABC to payments under the contract for the **Repair/Conversion of SPED Centers into Prototype Inclusive Learning Resource Center /Project No. 2025 - 006**. Bids received in excess of the ABC shall be automatically rejected at the bid opening.

Lot No.	Project Description	School	Contract Duration	ABC
1	Repair/Conversion of SPED Centers into Prototype Inclusive Learning Resource Center	Alabang Elementary School	90 Calendar Days	P 4,324,005.44
TOTAL				P 4,324,005.44

2. The **Schools Division Office - Muntinlupa City** now invites bids for the above Procurement Project. Completion of Works is **90 Calendar Days** for Lot 1. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).

3. Bidding will be conducted through open competitive bidding procedure using a non-discretionary **“pass/fail”** criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

4. Interested bidders may obtain further information from the **Schools Division Office - Muntinlupa City** and inspect the Bidding Documents at the address given below from **8:00 am – 5:00 pm**.

5. A complete set of Bidding Documents may be acquired by interested Bidders on **August 07, 2025**, from the **BAC Secretariat at the Student Center for Life Skills (SCLS) Building, Centennial Avenue, Laguerta, Tunasan, Muntinlupa** and the **website of the Procuring Entity** and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest guidelines issued by the GPPB, in the amount of **Five Thousand Pesos**



Student Center for Life Skills Bldg., Centennial Ave, Brgy. Tunasan, Muntinlupa City
84237560, 84237561, 84237562
sdc.muntinlupa@gmail.com / sdc.muntinlupa@deped.gov.ph
deped-muntinlupa.com

(₱ 5,000.00). The Procuring entity shall allow the bidder to present its proof of payment for the fees **in person**.

The Schedule and Venue of the procuring activities are as follows:

Activity	Date	Venue
Posting	August 07 - 14, 2024	PhilGEPS Procuring Entity's Website
Issuance of Bidding Documents	August 07 – 26, 2025 (8:00 am to 5:00 pm – Regular Office Hours)	Schools Division Office Muntinlupa City or thru the official email of SDO - Muntinlupa BAC
Pre-Bid Conference	August 15, 2025, Friday, 1:30 pm	Invitation shall be sent by the BAC Secretariat to the email address of the bidders
Submission and Opening of Bids	August 27, 2025, Wednesday, 1:30 pm	Schools Division Office Muntinlupa City (SCLS Bldg. 4th floor Activity Center)

6. The **Schools Division Office - Muntinlupa City** will hold a Pre-Bid Conference on **August 15, 2025, Friday, 1:30 pm** via **Hybrid Modality (Simultaneous In-Person and Online)**, which shall be open to prospective bidders. Prospective Bidders shall obtain the Microsoft Teams ID from the authorized personnel of SDO-Muntinlupa City Bids and Awards Committee Secretariat.

7. Bids (in printed copies) must be duly received by the BAC Secretariat through manual submission to the office address as indicated below, or thru any courier on or before **August 27, 2025, Wednesday, 1:30 pm**. Late bids shall not be accepted.

8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 16.

9. Bid opening (**Hybrid Modality (Simultaneous In-Person and Online)**) shall be on **August 27, 2025, Wednesday, 1:30 pm** at **Schools Division Office - Muntinlupa City, (SCLS Bldg., 4th floor Activity Center), Centennial Ave., Laguerta, Tunasan, Muntinlupa**. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

10. The Procuring Entity is requiring the contractors/bidders for the procurement of **Repair/Conversion of SPED Centers into Prototype Inclusive Learning Resource Center** to be a licensed contractor of the Philippine Contractors Accreditation Board (PCAB) - Category C - Small B and above.

11. The contractors/bidders are required to secure a Site Inspection Certification, duly signed by the School Head. This certification shall be one of the requirements under the Technical Specifications.

12. The **Schools Division Office - Muntinlupa City** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

13. For further information, please refer to:

Ms. Lourdes V. Rodilla
BAC Secretariat - Member
SDO Muntinlupa City
Centennial Avenue, Laguerta, Tunasan, Muntinlupa City
(02) 8829-2308 loc. 129
sdomuntinlupabacsec@gmail.com

Mr. Joseph D. Nilo
BAC Secretariat - Member
SDO Muntinlupa City
Centennial Avenue, Laguerta, Tunasan, Muntinlupa City
(02) 8829-2308 loc. 120
sdomuntinlupabacsec@gmail.com

Ms. Joiche I. Luna
BAC Secretariat - Member
SDO Muntinlupa City
Centennial Avenue, Laguerta, Tunasan, Muntinlupa City
(02) 8829-2308
sdomuntinlupabacsec@gmail.com

14. You may visit the website: <http://deped-muntinlupa.com> for the downloading of the Bidding Documents.


LILIA A. RICERO EdD
BAC Chairperson

August 06, 2025



Republic of the Philippines
DEPARTMENT OF EDUCATION
SCHOOLS DIVISION OFFICE
 MUNTINLUPA CITY
 Centennial Avenue, Tunasan, Muntinlupa City



PROGRAM OF WORKS
BILL OF QUANTITIES

ILRC 2024 - NCR - MUNTINLUPA CITY - 001

School	: ALABANG ELEMENTARY SCHOOL			Date:				
School I.D	: 136908			Budget Allocation:	4,324,005.44			
Region	: NCR			Engineering and Administrative Overhead:	0.00			
Division	: SDO MUNTINLUPA CITY			Approved Budget for the Contract:	4,324,005.44			
Project Title	:			Completion Period:	90 C.D.			
REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE LEARNING RESOURCE CENTER (ILRC)				Minimum Required Manpower:				
				General Foreman	Welder	Carpenter		
				Helper	Mason	Painter		
				Electrician				
Location	: Mendiola St., Alabang, Muntinlupa City			Minimum Required Equipment:				
				Hand Tools	Welding Machine			
				One-Bagger Mixer	Bar Cutter			
Item No.	Description	% of Total	Unit	Quantity	Direct Cost		Adjusted Unit Cost	Adjusted Total Cost
					Total Cost	Unit Cost		
(1)	(2)	(3)	(4)	(5)	(6)	(7) (6) / (5)	(8) (9) / (5)	(9)
A.	Facilities for the Engineer							
A.1	Temporary Facilities		Month	3.00				
B.	Other General Requirements							
B.1	Fire Safety Inspection Certificate (FSIC)		lot	1.00				
SPL 1	Project Billboard		Each	1.00				
SPL 2	Construction Safety and Health		Month	3.00				
C.	Mobilization and Demobilization							
C.1	Mobilization and Demobilization		Ls	1.00				
2.0000	Concreting Works (3000 psi)							

Item No.	Description	% of Total	Unit	Quantity	Direct Cost		Adjusted Unit Cost	Adjusted Total Cost
					Total Cost	Unit Cost		
2 (h)	Concrete (Handwashing with Concrete Platform)		cu.m	3.51				
2 (i)	Concrete (Pool-Hydrotherapy)		cu.m	0.71				
3.0000	Rebar Works							
3 (a)	Reinforcing Steel Bar, Grade 40		kg	298.57				
4.0000	Formworks							
4 (a)	Installation and Removal of Formworks		sq.m.	21.91				
5.0000	Masonry Works							
5 (b)	Masonry (100 mm CHB)		sq.m.	62.07				
6.0000	Fabricated Materials and Hardware							
6 (c)	Hollow Core Flush Door		sq.m.	3.78				
6 (d)	Wooden Panel Door		sq.m.	1.89				
6 (i)	Sliding Aluminum Window		sq. m.	1.44				
8.0000	Roofing Works							
8 (a)	Removal of Metal Roofing		sq m	100.00				
8 (b)	Pre - painted Metal Sheets (Corrugated, Short Span/ Long Span, below 0.427 BMT/ above 0.427 BMT)		sq.m	137.00				
9.0000	Ceiling and Carpentry Works							
9 (f)	4.5mm Fiber Cement Board/ 4.5mm Marine Plywood/ 6.0mm Marine Plywood/ 6.0 mm Ordinary Plywood on Metal Frame Ceiling		sq. m.	140.70				
9 (h)	4.5 mm/ 6.0 mm thk 4' x 8' Fiber Cement Board/ Marine Plywood/ 6.0 mm thk 4' x 8' Ordinary Plywood on Metal Frame Double Partition		sq. m.	19.25				
9 (i)	White Board		Ls	4.00				

Item No.	Description	% of Total	Unit	Quantity	Direct Cost		Adjusted Unit Cost	Adjusted Total Cost
					Total Cost	Unit Cost		
9 (j)	4.5mm Fiber Cement Board/ 4.5mm Marine Plywood/ 6.0mm Marine Plywood/ 6.0 mm Ordinary Plywood for Cabinets		sq. m.	106.80				
10.0000	Electrical Works							
10 (a)	Conduit, Boxes and Fitting		Ls	1.00				
10 (b)	Wires and Wiring Devices		Ls	1.00				
10 (c)	Lighting Fixture/ Fixture		Ls	1.00				
10 (d)	Panel Board and Cabinets		Ls	1.00				
11.0000	Plumbing Works							
11 (a)	Waterline Works		Ls	1.00				
12.0000	Sanitary Works							
12 (a)	Sewer Line Works		Ls	1.00				
12 (b)	Sanitary/ Plumbing Fixtures		Ls	1.00				
11.0000	Painting Works							
13 (a)	Masonry Painting		sq.m	3,457.87				
13 (b)	Wooden Painting		sq.m	335.78				
13 (c)	Metal Painting		sq.m	120.00				
15.0000	Waterproofing							
15 (a)	Waterproofing Cement Base		sq.m	10.00				
15 (b)	Non-Toxix Epoxy Waterproofing		sq.m	20.00				
14.0000	Tile Works							
14 (a)	Glazed Tiles and Trims		sq.m	48.90				
14 (b)	Unglazed Tiles/ Granite Tiles/ Synthetic Granite Tiles		sq.m	46.23				
14 (c)	Floor Carpet Tiles		sq.m	189.00				
					-	Total Construction Cost		-

Prepared by:

Bidder/Contractor



Republic of the Philippines
DEPARTMENT OF EDUCATION
SCHOOLS DIVISION OFFICE
 MUNTINLUPA CITY
 Centennial Avenue, Tunasan, Muntinlupa City



PROGRAM OF WORKS
DETAILED COST ESTIMATE
(TOTAL CONSTRUCTION COST/ ABC)
ILRC 2024 - NCR - MUNTINLUPA CITY - 001

PROJECT : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE LEARNING RESOURCE CENTER (ILRC)
 SCHOOL : ALABANG ELEMENTARY SCHOOL
 LOCATION : Mendiola St., Alabang, Muntinlupa City
 OWNER : **DEPARTMENT OF EDUCATION**

CONTRACT DURATION : 90 CD

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT (5%)	TOTAL INDIRECT COST	ADJUSTED TOTAL COST	ADJUSTED UNIT COST
					OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
							(6) + (7)	(5) x (8)	5% [(5) + (9)]	(9) + (10)	(5) + (11)	(12) / (3)
A.	Facilities for the Engineer											
A.1	Temporary Facilities	3.00	Month		0%	10%	10%					
B.	Other General Requirements											
B.1	Fire Safety Inspection Certificate (FSIC)	1.00	lot		0%	0%	0%					
SPL 1	Project Billboard	1.00	Each		12%	10%	22%					
SPL 2	Construction Safety and Health	3.00	Month		0%	10%	10%					
C.	Mobilization and Demobilization											
	Mobilization and Demobilization	1.00	Ls		0%	0%	0%					
2.0000	Concreting Works (3000 psi)											
2 (h)	Concrete (Handwashing with Concrete Platform)	3.51	cu.m		12%	10%	22%					
2 (i)	Concrete (Pool-Hydrotherapy)	0.71	cu.m		12%	10%	22%					
3.0000	Rebar Works											
3 (a)	Reinforcing Steel Bar, Grade 40	298.57	kg		12%	10%	22%					
4.0000	Formworks											
4 (a)	Installation and Removal of Formworks	21.91	sq.m.		12%	10%	22%					
5.0000	Masonry Works											
5 (b)	Masonry (100 mm CHB)	62.07	sq.m.		12%	10%	22%					
6.0000	Fabricated Materials and Hardware											
6 (c)	Hollow Core Flush Door	3.78	sq.m.		12%	10%	22%					
6 (d)	Wooden Panel Door	1.89	sq.m.		12%	10%	22%					
6 (i)	Sliding Aluminum Window	1.44	sq. m.		12%	10%	22%					
8.0000	Roofing Works											
8 (a)	Removal of Metal Roofing	100.00	sq m		12%	10%	22%					
8 (b)	Pre - painted Metal Sheets (Corrugated, Short Span/ Long Span, below 0.427 BMT/ above 0.427 BMT)	137.00	sq.m		12%	10%	22%					
9.0000	Ceiling and Carpentry Works											

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT (5%)	TOTAL INDIRECT COST	ADJUSTED TOTAL COST	ADJUSTED UNIT COST
					OCM	PROFIT	%	VALUE				
9 (f)	4.5mm Fiber Cement Board/ 4.5mm Marine Plywood/ 6.0mm Marine Plywood/ 6.0 mm Ordinary Plywood on Metal Frame Ceiling	140.70	sq. m.		12%	10%	22%					
9 (h)	4.5 mm/ 6.0 mm thk 4' x 8' Fiber Cement Board/ Marine Plywood/ 6.0 mm thk 4' x 8' Ordinary Plywood on Metal Frame Double Partition	19.25	sq. m.		12%	10%	22%					
9 (i)	White Board	4.00	sq. m.		12%	10%	22%					
9 (j)	4.5mm Fiber Cement Board/ 4.5mm Marine Plywood/ 6.0mm Marine Plywood/ 6.0 mm Ordinary Plywood for Cabinets	106.80	sq. m.		12%	10%	22%					
10.0000	Electrical Works											
10 (a)	Conduit, Boxes and Fitting	1.00	Ls		12%	10%	22%					
10 (b)	Wires and Wiring Devices	1.00	Ls		12%	10%	22%					
10 (c)	Lighting Fixture/ Fixture	1.00	Ls		12%	10%	22%					
11 (c)	Panel Board and Cabinets	1.00	Ls		12%	10%	22%					
11.0000	Plumbing Works											
11 (a)	Waterline Works	1.00	Ls		12%	10%	22%					
12.0000	Sanitary Works											
12 (a)	Sewer Line Works	1.00	Ls		12%	10%	22%					
12 (b)	Sanitary/ Plumbing Fixtures	1.00	Ls		12%	10%	22%					
11.0000	Painting Works											
13 (a)	Masonry Painting	3,457.87	sq.m		12%	10%	22%					
13 (b)	Wooden Painting	335.78	sq.m		12%	10%	22%					
14 (b)	Wooden Painting	120.00	sq.m		12%	10%	22%					
15.0000	Waterproofing											
15 (a)	Waterproofing Cement Base	10.00	sq.m		12%	10%	22%					
15 (b)	Non-Toxix Epoxy Waterproofing	20.00	sq.m		12%	10%	22%					
14.0000	Tile Works											
14 (a)	Glazed Tiles and Trims	48.90	sq.m		12%	10%	22%					
14 (b)	Unglazed Tiles/ Granite Tiles/ Synthetic Granite Tiles	46.23	sq.m		12%	10%	22%					
14 ©	Floor Carpet Tiles	189.00	sq.m		12%	10%	22%					
	TOTAL CONSTRUCTION COST			-							-	

Prepared by:

Bidder/Contractor



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: A.1

Description: Temporary Facilities

Quantity: 3.00
Output : 1.00
Unit: Month

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Rental of Office/ Storage House (including light and water)	Month	3.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (Ocm)				0% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: B.1

Description: Fire Safety Inspection Certificate (FSIC)

Quantity: 1.00
Output : 1.00
Unit: lot

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead,Contingencies and Miscellaneous (Ocm)			0% of D.	
F.	Contractor's Profit			0% of D.	
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: SPL 1

Description: Project Billboard

Quantity: 1.00
Output: 1.00
Unit: Each

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	4.00		
	Skilled Laborer	1	4.00		
	Unskilled Laborer	1	4.00		
Sub-Total (Labor)					Php 1,438.47
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	8' x 8' Tarpaulin, 2 sets	sq ft	64.00		
	Good Lumber (Frames)	bd.ft	48.00		
	Assorted CW Nails	kg	1.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)			Php	
E.	Overhead,Contingencies and Miscellaneous (Ocm)			12% of D.	
F.	Contractor's Profit			10% of D.	
G.	Value Added Tax (VAT)			5% of (D+E+F)	
H.	Adjusted Total Cost (D+E+F+G)			Php	
I.	Adjusted Unit Cost (H/Quantity)			Php	



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: SPL 2

Description: Construction Safety and Health

Quantity: 3.00
Output : 1.00
Unit: Month

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Safety Officer	1	720.00		
	First Aider	1	720.00		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	First Aid Kit	Ls	1		
	Personal Protective equipment (PPE)				
	Safety Helmet	man - days	10		
	Safety Shoes	man - days	10		
	Safety Gloves	man - days	25		
	Signages and Barricades				
	PPE Signage (4' x 8')	set	1		
	Safety First (4' x 4')	set	1		
	Warning Signs (2' x 3')	set	1		
	Caution Tape, 100 ft	roll	1		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (Ocm)				0% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: C.1

Description: Mobilization and Demobilization

Quantity: 1.00
Output : 1.00
Unit: Ls

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Self Loading Truck and Accessories	1	24		
Sub-Total (Equipment)					Php
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)			Php	
E.	Overhead,Contingencies and Miscellaneous (Ocm)			0% of D.	
F.	Contractor's Profit			0% of D.	
G.	Value Added Tax (VAT)			5% of (D+E+F)	
H.	Adjusted Total Cost (D+E+F+G)			Php	
I.	Adjusted Unit Cost (H/Quantity)			Php	



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 2 (h)

Description: Concrete (Handwashing with Concrete Platform)

Quantity: 3.51
Output per hour: 0.357
Unit: cu m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	9.83		
	Skilled Laborer	1	9.83		
	Unskilled Laborer	4	9.83		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	One - bagger Mixer	1	9.83		
Sub-Total (Equipment)					Php
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Portland Cement	bag	32.00		
	Washed Sand	cu.m.	3.75		
	Crushed Gravel 3/4"	cu.m.	2.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



Republic of the Philippines
DEPARTMENT OF EDUCATION
SCHOOLS DIVISION OFFICE
 MUNTINLUPA CITY
 Centennial Avenue, Tunasan, Muntinlupa City



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 2 (i)

Description: Concrete (Pool-Hydrotherapy)

Quantity: 0.71
Output per hour: 0.270
Unit: cu m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	2.63	157.23	413.45
	Skilled Laborer	1	2.63	114.31	300.60
	Unskilled Laborer	4	2.63	88.08	926.44
Sub-Total (Labor)					1,640.49
					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	One - bagger Mixer	1	2.63	172.00	452.30
Sub-Total (Equipment)					452.30
					Php
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Portland Cement	bag	7.00	250.00	1,750.00
	Washed Sand	cu.m.	0.75	2,000.00	1,500.00
	Crushed Gravel 3/4"	cu.m.	0.50	3,000.00	1,500.00
Sub-Total (Materials)					4,750.00
					Php
D.	Direct Cost (A+B+C)				6,842.79
					Php
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	821.13
F.	Contractor's Profit			10% of D.	684.28
G.	Value Added Tax (VAT)			5% of (D+E+F)	417.41
H.	Adjusted Total Cost (D+E+F+G)				8,765.61
					Php
I.	Adjusted Unit Cost (H/Quantity)				12,345.94
					Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 3 (a)

Description: Reinforcing Steel Bar, Grade 40

Quantity: 298.57
Output per hour: 143.438
Unit: kg

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	2.08		
	Skilled Laborer	3	2.08		
	Unskilled Laborer	12	2.08		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Bar Cutter	1	1.04		
	Bar Bender	1	1.04		
Sub-Total (Equipment)					Php
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	#16 G.I. Tie Wire Reinforcing Steel Bar, Grade 40	kg	6.00		
		kg	298.57		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 4 (a)

Description: Installation and Removal of Formworks

Quantity: 21.91
Output per hour: 3.24
Unit: sq.m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Installation				
	Construction Foreman	1	6.76		
	Skilled Laborer	2	6.76		
	Unskilled Laborer	4	6.76		
	Stripping				
	Construction Foreman	1	2.77		
	Unskilled Laborer	6	2.77		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Good Lumber - 2 uses	bdft	186.50		
	Ordinary Plywood - 2 uses	pc.	6.00		
	Assorted CWN	kg.	3.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 5 (b)

Description: Masonry (100 mm CHB)

Quantity: 62.07
Output per hour: 3.825
Unit: sq.m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	16.23		
	Skilled Laborer	2	16.23		
	Unskilled Laborer	3	16.23		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	One - bagger Mixer	1	16.23		
Sub-Total (Equipment)					Php
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	CHB 4" thk	pcs	807.00		
	Portland Cement	bags	33.00		
	Washed Sand	cu.m	2.48		
	10mm x 6m RSB	kgs	201.11		
	G.I. Tie Wire	kgs	3.10		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 6 (c)

Description: Hollow Core Flush Door

Quantity: 3.78
Output per hour: 0.32
Unit: sq m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	11.81		
	Skilled Laborer	1	11.81		
	Unskilled Laborer	1	11.81		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Hollow Core Flush Door	sq.m	3.78		
	Hinges, Standard 3-1/2" x 3-1/2"	pa	8.00		
	Entrance, Lever Lockset	set	2.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



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DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 6 (d)

Description: Wooden Panel Door

Quantity: 1.89
 Output per hour: 0.32
 Unit: sq m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	5.91		
	Skilled Laborer	1	5.91		
	Unskilled Laborer	2	5.91		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Wood Panel Door	sq.m	3.78		
	Hinges, Standard 3-1/2" x 3-1/2"	pa	8.00		
	Entrance, Lever Lockset	set	2.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	
F.	Contractor's Profit			10% of D.	
G.	Value Added Tax (VAT)			5% of (D+E+F)	
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 6 (f)

Description: Sliding Aluminum Window

Quantity: 1.44
Output: 0.34
Unit: sq.m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	4.24		
	Skilled Laborer	1	4.24		
	Unskilled Laborer	2	4.24		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Sliding Aluminum Window	sq. m.	1.44		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 8 (a)

Description: Removal of Metal Roofing

Quantity: 100.00
Output per hour: 18.250
Unit: sq m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	5.48		
	Skilled Laborer	1	5.48		
	Unskilled Laborer	3	5.48		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Electric Hand Drill	2	5.48		
	H - Frame 1.7m x 1.2m	2	5.48		
Sub-Total (Equipment)					Php
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)			Php	
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	
F.	Contractor's Profit			10% of D.	
G.	Value Added Tax (VAT)			5% of (D+E+F)	
H.	Adjusted Total Cost (D+E+F+G)			Php	
I.	Adjusted Unit Cost (H/Quantity)			Php	



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 8 (b)

Description: Pre - painted Metal Sheets (Corrugated, Short Span/ Long Span, below 0.427 BMT/ above 0.427 BMT)

Quantity: 137.00
Output per hour: 2.076
Unit: sq.m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	65.99		
	Skilled Laborer	1	65.99		
	Unskilled Laborer	2	65.99		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	G.I. Long-Span Roofing, Corrugated, Pre-Painted, 1220mm x 0.5mm BMT	lm	143.85		
	Teckscrew 2-3/4"	pc	510.00		
	Roof Sealant	L	4.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 9 (f)

Description: 4.5mm Fiber Cement Board/ 4.5mm Marine Plywood/ 6.0mm Marine Plywood/ 6.0 mm Ordinary Plywood on Metal Frame Ceiling

Quantity: 140.70
Output per hour: 1.243
Unit: sq.m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	113.19		
	Skilled Laborer	1	113.19		
	Unskilled Laborer	2	113.19		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Fiber Cement Ceiling Board (4.5mm thk)	pc	52.00		
	Blind Rivets	pc	1040.00		
	Metal Double Furring Channel (19mm x 50mm x 3m x 0.5mm thk)	pc	53.00		
	3" Flat head Countersunk screw	pc	55.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 9 (h)

Description: 4.5 mm/ 6.0 mm thk 4' x 8' Fiber Cement Board/ Marine Plywood/ 6.0 mm thk 4' x 8' Ordinary Plywood on Metal Frame Double Partition

Quantity: 19.25
Output per hour: 0.776
Unit: sq.m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	24.81		
	Skilled Laborer	1	24.81		
	Unskilled Laborer	2	24.81		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	4.5 mm/ 6.0 mm thk 4' x 8' Fiber Cement Board/	pc	13.36		
	Metal Studs (3.0 m length)	pc	22.73		
	Rivets	pc	2252.25		
	1" Metal Screw	pc	78.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead, Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 9 (i)

Description: White Board

Quantity: 4.00
Output per hour: 1.000
Unit: Ls

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	4.00		
	Skilled Laborer	1	4.00		
	Unskilled Laborer	1	4.00		
Sub-Total (Labor)				Php	
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)				Php	-
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	White Board Wall Mounted, 4ft x 6ft	pc	4.00		
Sub-Total (Materials)				Php	
D.	Direct Cost (A+B+C)			Php	
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	
F.	Contractor's Profit			10% of D.	
G.	Value Added Tax (VAT)			5% of (D+E+F)	
H.	Adjusted Total Cost (D+E+F+G)			Php	
I.	Adjusted Unit Cost (H/Quantity)			Php	



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Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 9 (j)

Description: 4.5mm Fiber Cement Board/ 4.5mm Marine Plywood/ 6.0mm Marine Plywood/ 6.0 mm Ordinary Plywood for Cabinets

Quantity: 106.80
Output per hour: 1.00
Unit: sq.m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	106.80		
	Skilled Laborer	1	106.80		
	Unskilled Laborer	2	106.80		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
9.07	Plywood, Marine 3/4" x 4' x 8'	pc	76.00		
	Black Screw	box	3.00		
	Finishing Nails	kg	5.00		
	Wood Preservative, Brown	L	2.00		
	Concealed Hinges	set	64.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 10 (a)

Description: Conduit, Boxes and Fitting

Quantity: 1.00
 Output per hour: 1.00
 Unit: Ls

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	48.00		
	Skilled Laborer	2	48.00		
	Unskilled Laborer	4	48.00		
Sub-Total (Labor)					Php 35,431.86
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Electrical Conduit uPVC, 20mmØ	pc	114.00		
	Electrical Conduit uPVC, 25mmØ	pc	79.00		
	Electrical Conduit uPVC, 32mmØ	pc	11.00		
	PVC Male Adapter w/ Locknuts	pc	1,594.00		
	RSC 60mmØ	pc	4.00		
	Saddle Clamps, 60mmØ, galvanized	pc	9.00		
	RSC Bushing	pc	4.00		
	RSC Str ght Connector with Locknut	set	4.00		
	Connector, Compression, #6 - #4 ACSR Run To 06 - #4	pc	2.00		
	Entrance Cap 60mm dia.	pc	1.00		
	Junction Box, 4" x 4" G.I.	pc	193.00		
	Utility Box, 2" x 4" G.I.	pc	137.00		
	Grounding Rod, 2.4m x 16mm dia.	pc	1.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 10 (b)

Description: Wires and Wiring Devices

Quantity: 1.00
Output per hour: 1.00
Unit: Ls

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	80.00		
	Skilled Laborer	2	80.00		
	Unskilled Laborer	4	80.00		
Sub-Total (Labor)					Php 59,053.10
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Distribution Panel (DPA,DPB,DPC,DPD)				
	3.5 mm ² THHN Wire, Stranded	set	2,066.54		
	5.5 mm ² THHN Wire, Stranded	m	343.52		
	14.0 mm ² THHN Wire, Stranded	m	150.00		
	30.0 mm ² THHN Wire, Stranded	m	17.00		
	Main Distribution Panel (MDP)				
	125mm ² THHN Wire, Stranded	m	44.00		
	30.0 mm ² THHN Wire, Stranded	m	22.00		
	Terminal lugs Crimp Type, 125mm Dia	pc	4.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 10 (c)

Description: Lighting Fixtures/ Fixtures

Quantity: 1.00
Output per hour: 1.00
Unit: Ls

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	290.00		
	Skilled Laborer	1	290.00		
	Unskilled Laborer	2	290.00		
Sub-Total (Labor)					Php 129,831.55
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Duplex Convenience Outlet, Grounding Type, 20A, 250V	set	67.00		
	Duplex Convenience Outlet, Grounding Type, 20A, 250V (WP)	set	4.00		
	GFCI Receptacle, Grounding Type, 20A 250V	set	4.00		
	Special Purpose Outlet, Grounding Type, 250V	set	8.00		
	3 Single Pole Wall Switches in One Switch Plate (10 AMP, 230V)	set	5.00		
	2 Single Pole Wall Switches in One Switch Plate (10 AMP, 230V)	set	17.00		
	1 Single Pole Wall Switches in One Switch Plate (10 AMP, 230V)	set	16.00		
	Three Way Wall Switch (10 AMP, 230 V)	set	12.00		
	2 - 28W, T5 LED LIGHTS with mirror reflector (220v-240v, 50Hz) Box Type	set	15.00		
	18W LED Surface Mounted Light Fixture 3500-4500k / Nature White	set	19.00		
	1 - 12W, Dimmable LED LIGHT (220v-240v, 50Hz)	set	36.00		
	2Hp Split Type ACU complete with accessories including installation	unit	2.00		
	1Hp Split Type ACU complete with accessories including installation	unit	2.00		
	Exhaust Fan 80CFM	set	12.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



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DETAILED UNIT PRICE ANALYSIS



Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 10 (d)

Description: Panel Board and Cabinets

Quantity: 1.00
 Output per hour: 1.00
 Unit: Ls

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	40.00		
	Skilled Laborer	1	40.00		
	Unskilled Laborer	2	40.00		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Panel Box, Circuit Breaker and Grounding System				
	NEMA 3R Enclosure type with MCCB 30AT,2P, Bolton Circuit Breaker	set	5.00		
	Panel Box, Flush Type, 8 Branches w/ Grounding Bus Bar, Lugs, NEMA 1 Enclosure	set	1.00		
	Panel Box, Flush Type, 12 Branches w/ Grounding Bus Bar, Lugs, NEMA 1 Enclosure	set	3.00		
	Panel Box, Flush Type, 4 Branches w/ Grounding Bus Bar, Lugs, NEMA 1 Enclosure	set	1.00		
	Circuit Breaker, 20A 2P	set	28.00		
	Circuit Breaker, 30A 2P	set	7.00		
	Circuit Breaker, 40A 2P	set	4.00		
	Circuit Breaker, 50A 2P	set	6.00		
	Circuit Breaker, 100A 2P	set	2.00		
	Circuit Breaker, 250A 2P	set	1.00		
	Electrical Tape	set	30.00		
	PVC Cement	can	15.00		
	Rubber Tape	pc	2.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 11 (a)

Description: Waterline Works

Quantity: 1.00
Output per hour: 1.00
Unit: Ls

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	112		
	Skilled Laborer	1	112		
	Unskilled Laborer	2	112		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Faucet, Hose Bibb, Brass 1/2"Ø	pc	36.00		
	PP-R Pipe 2"Ø x 4.0m	pc	5.00		
	PP-R Pipe 1-1/4"Ø x 4.0m	pc	24.00		
	PP-R Elbow 90° x 2"Ø	pc	5.00		
	PP-R Elbow 90° x 1-1/4"Ø	pc	83.00		
	PP-R Tee, 2"Ø	pc	4.00		
	PP-R Tee, 1-1/4"Ø	pc	60.00		
	PP-R _Tee Reducer, 2" x 1-1/4"Ø	pc	4.00		
	PP-R End Cap, 1-1/4"Ø	pc	30.00		
	PP-R Coupling, 2"Ø	pc	5.00		
	PP-R Coupling, 1-1/4"Ø	pc	24.00		
	Gate Valve, 2"Ø	pc	2.00		
	Gate Valve, 1-1/4"Ø	pc	19.00		
	3-Way Angle Valve (Water Closet)	pc	12.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 12 (a)

Description: Sewer Line Works

Quantity: 1.00

Output : 1.00

Unit: Ls

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	32		
	Skilled Laborer	1	32		
	Unskilled Laborer	2	32		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php
					-
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	PVC Sanitary Pipe 4"Ø x 3.0m	pc	20.00		
	PVC Sanitary Pipe 2"Ø x 3.0m	pc	12.00		
	PVC Sanitary Pipe 1-1/2"Ø	pc	6.00		
	PVC Sanitary Wye 4" x 4"	pc	10.00		
	PVC Sanitary Wye 4" x 1-1/2"	pc	2.00		
	PVC Sanitary Wye 1-1/2" x 1-1/2"	pc	2.00		
	PVC Sanitary Elbow 1/8 x 4"Ø	pc	4.00		
	PVC Sanitary Elbow 1/8 x 1-1/2"Ø	pc	14.00		
	PVC Sanitary Elbow 90° x 4"Ø	pc	24.00		
	PVC Sanitary Elbow 90° x 2"Ø	pc	12.00		
	PVC Sanitary Tee 4" x 4"	pc	2.00		
	PVC Sanitary Tee 2" x 2"	pc	12.00		
	PVC P-Trap 4"	pc	16.00		
	PVC P-Trap 1-1/2"™	pc	7.00		
	Brass Cleanout 4" x 4"	pc	6.00		
	S.S. Floor Drain 4" x 4"	pc	10.00		
	PVC Cement	can	4.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	
F.	Contractor's Profit			10% of D.	
G.	Value Added Tax (VAT)			5% of (D+E+F)	
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 12 (b)

Description: Sanitary/ Plumbing Fixtures

Quantity: 1.00
Output : 1.00
Unit: Ls

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	104		
	Skilled Laborer	1	104		
	Unskilled Laborer	1	104		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Water Closet 1.6gpf with Accessories	set	2		
	Water Closet Flange	set	2		
	Concrete Counter Sink Type, with Two (2) Lever Type Faucet and Complete Accessories	set	5		
	Lavatory, Pedestal Type with Accessories	set	2		
	Shower Set with complete accesories	set	2		
	Single-point Water Heater, 3.5 KW	set	1		
	Multi-point Water Heater, 6 KW	set	1		
	Jet Spray (Bidet), Stainless	set	2		
	Greese Trap (SS) 5GPM	set	3		
	S.S. Grab Rail 1-1/2"Ø	set	12		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)			Php	
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	
F.	Contractor's Profit			10% of D.	
G.	Value Added Tax (VAT)			5% of (D+E+F)	
H.	Adjusted Total Cost (D+E+F+G)			Php	
I.	Adjusted Unit Cost (H/Quantity)			Php	



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DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 13 (a)

Description: Masonry Painting

Quantity: 3457.87
Output per hour: 7.00
Unit: sq.m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	493.98		
	Skilled Laborer	2	493.98		
	Unskilled Laborer	1	493.98		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	H - Frame 1.7m x 1.2m	40.00	63.00		
Sub-Total (Equipment)					Php
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Masonry Putty	gal	173.00		
	Latex, Flat	gal	173.00		
	Latex, Semi Gloss	gal	346.00		
	Acri Color	qrt	87.00		
	Paint Brush	pcs	20.00		
	Sand paper	pcs	45.00		
	Roller brush	pcs	25.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 13 (b)

Description: Wooden Painting

Quantity: 335.78
Output per hour: 5.00
Unit: sq.m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	67.16		
	Skilled Laborer	2	67.16		
	Unskilled Laborer	1	67.16		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					
					Php
-					
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Enamel, Flatwall	gal	17.00		
	Enamel, Semi Gloss	gal	27.00		
	Glazing Putty	gal	17.00		
	Paint Thinner	gal	4.00		
	Roller brush	pcs	11.00		
	Paint brush	pcs	11.00		
	Cotton rag	pcs	11.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	
F.	Contractor's Profit			10% of D.	
G.	Value Added Tax (VAT)			5% of (D+E+F)	
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



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DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 13 (c)

Description: Metal Painting

Quantity: 120.00
Output per hour: 4.00
Unit: sq.m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	30.00		
	Skilled Laborer	2	30.00		
	Unskilled Laborer	1	30.00		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Primer, Zinc Chromate	gal	6.00		
	Epoxy Enamel Paint	gal	12.00		
	Epoxy reducer	gal	3.00		
	Paint Thinner	gal	5.00		
	Baby roller	pcs	10.00		
	Paint brush	pcs	10.00		
	Cotton rag	kg	3.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	
F.	Contractor's Profit			10% of D.	
G.	Value Added Tax (VAT)			5% of (D+E+F)	
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 15 (a)

Description: Waterproofing Cement Base

Quantity: 10.00
Output per hour: 1.875
Unit: sq.m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	5.33		
	Skilled Laborer	1	5.33		
	Unskilled Laborer	2	5.33		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Cement - based waterproofing	gal	2.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 15 (b)

Description: Non-Toxix Epoxy Waterproofing

Quantity: 20.00
Output per hour: 1.875
Unit: sq.m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	10.67		
	Skilled Laborer	1	10.67		
	Unskilled Laborer	2	10.67		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Non-Toxix Epoxy Waterproofing	gal	4.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	
F.	Contractor's Profit			10% of D.	
G.	Value Added Tax (VAT)			5% of (D+E+F)	
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 14 (a)

Description: Glazed Tiles and Trims

Quantity: 48.90
Output per hour: 1.365
Unit: sq.m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	35.82		
	Skilled Laborer	5	35.82		
	Unskilled Laborer	5	35.82		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Glazed Tiles	sq.m	51.35		
	Cement	bag	15.89		
	Sand	cu.m	1.27		
	Tile Grout 5 kg/bag	bag	6.11		
	Tile Adhesive 25 kg/bag	bag	6.99		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



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DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

Item: 14 (b)

Description: Unglazed Tiles/ Granite Tiles/ Synthetic Granite Tiles

Quantity: 46.23
Output per hour: 1.95
Unit: sq.m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	23.71		
	Skilled Laborer	5	23.71		
	Unskilled Laborer	5	23.71		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Unglazed Tiles/ Granite Tiles/ Synthetic Granite Tiles	pc	133.00		
	Cement	bag	8.00		
	Sand	cu.m	2.00		
	Tile Grout 5 kg/bag	bag	10.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)				12% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php



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DETAILED UNIT PRICE ANALYSIS

Project : REPAIR/CONVERSION OF SPED CENTERS INTO PROTOTYPE INCLUSIVE RESOURCE CENTER (ILRC)

Location: Mendiola St., Alabang, Muntinlupa City

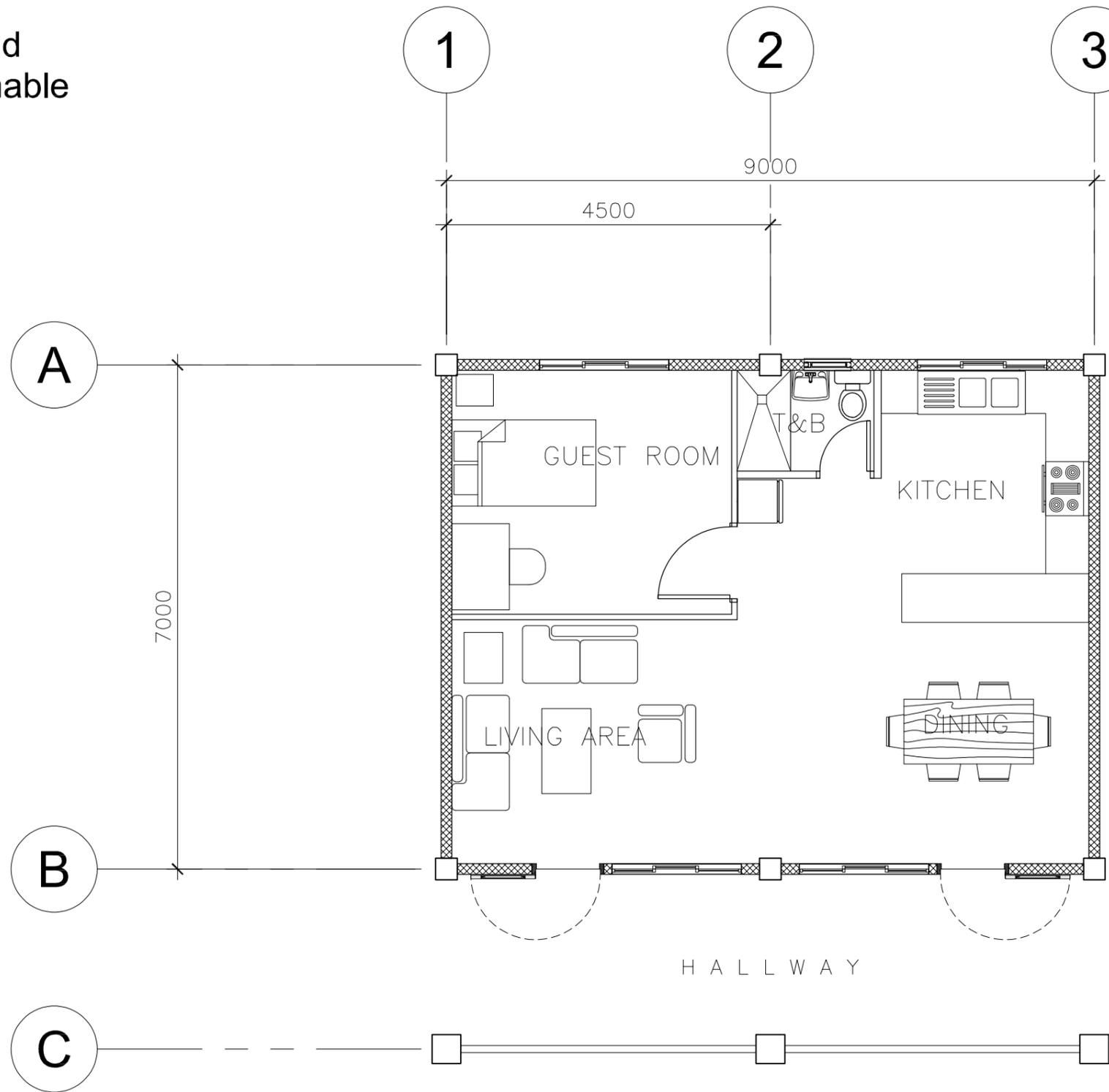
Item: 14 (c)

Description: Floor Carpet Tiles

Quantity: 189.00
Output per hour: 10.00
Unit: sq.m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	18.90		
	Skilled Laborer	5	18.90		
	Unskilled Laborer	5	18.90		
Sub-Total (Labor)					Php
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Carpet Tiles 50cm x 50cm	pc	779.00		
	Big Carpet 200cm x 300cm	pc	1.00		
	Acrylic Flooring Adhesive (1.25kg)	pc	8.00		
Sub-Total (Materials)					Php
D.	Direct Cost (A+B+C)				Php
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	
F.	Contractor's Profit			10% of D.	
G.	Value Added Tax (VAT)			5% of (D+E+F)	
H.	Adjusted Total Cost (D+E+F+G)				Php
I.	Adjusted Unit Cost (H/Quantity)				Php

This area contains materials, furniture and equipment that will enable and prepare learners towards daily independent living.

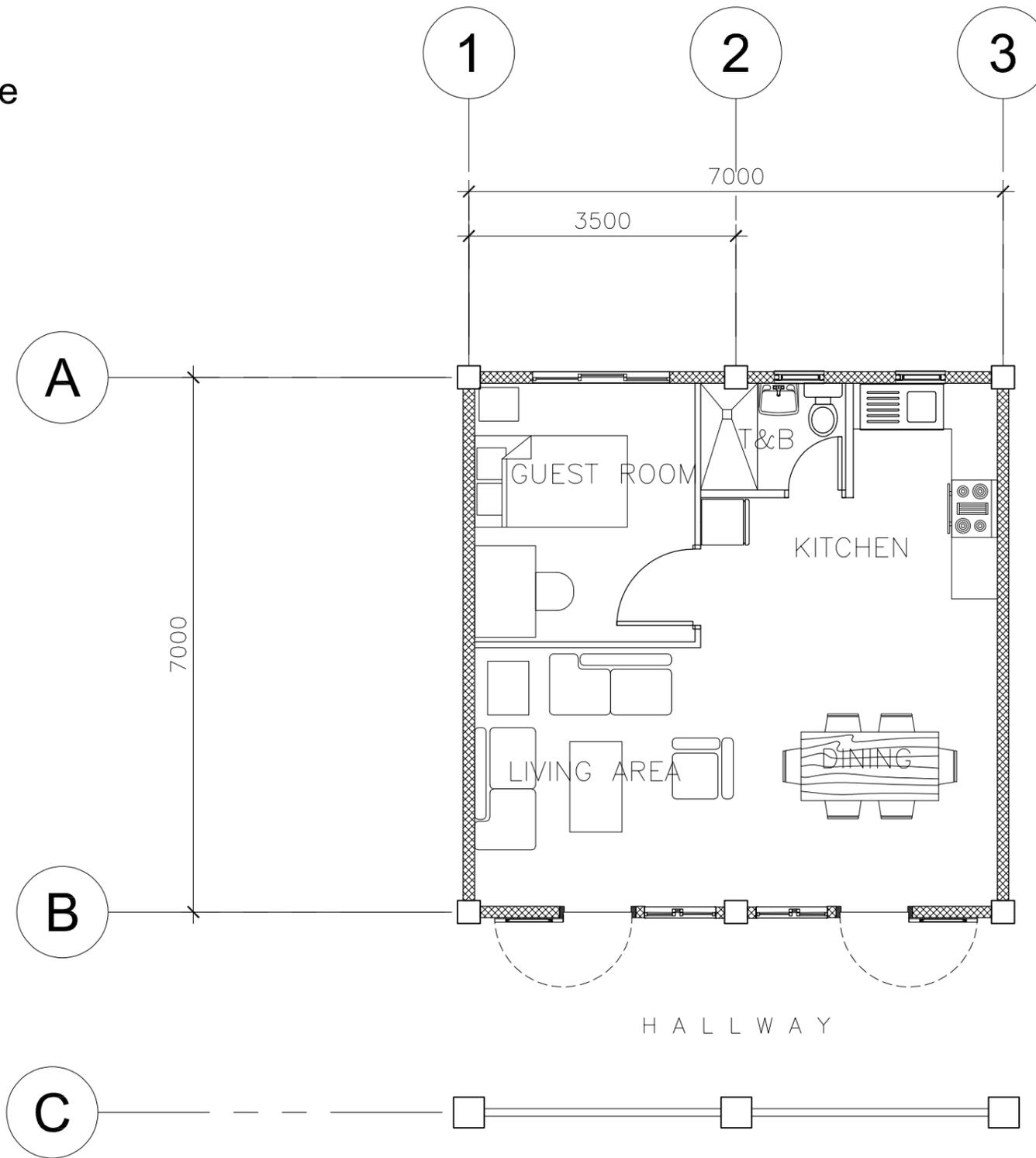


FLOOR LAYOUT
7.0 X 9.0 MTS.

BASIC FEATURES

1. Regular classroom (7.0 x 9.0 mts.) or (7.0 x 4.50 mts.)
2. Toilet (sink, shower, bidet, with handrails, shower chair, door has a minimum of 32 inches of width)
3. Stainless Steel Sink with soap and towel dispenser
4. Space for personal hygiene/grooming
5. Dining table for eating/feeding
6. Sink for wash area (utensils)
7. Bed to sleep/rest.
8. Furniture (movable tables and chairs/sofa)

This area contains materials, furniture and equipment that will enable and prepare learners towards daily independent living.



FLOOR LAYOUT
7.0 X 7.0 MTS.

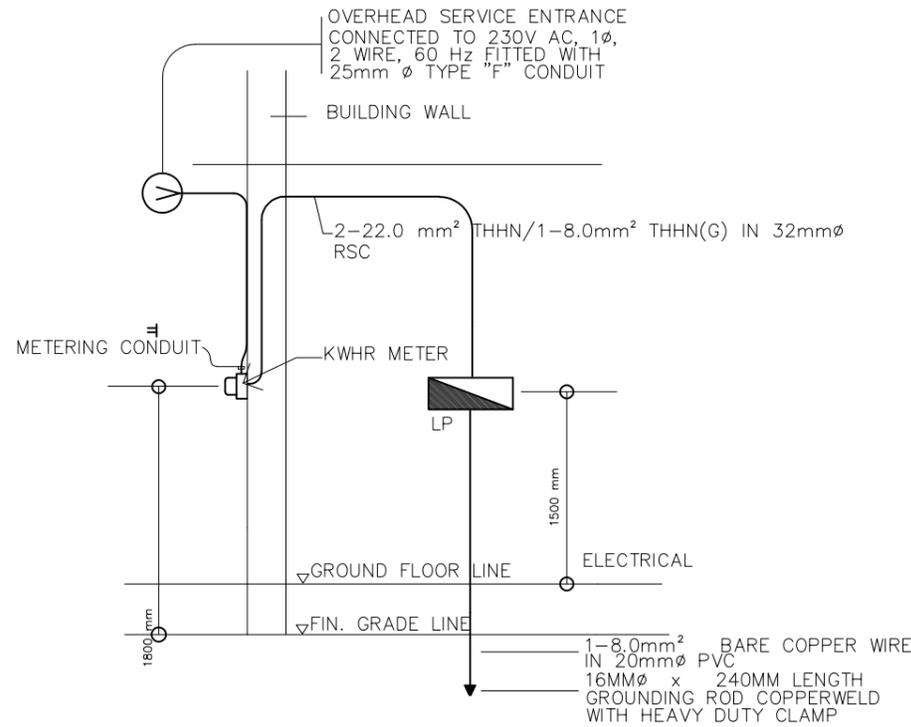
BASIC FEATURES

1. $\frac{1}{2}$ of regular classroom (7.0 x 7.0 mts.) or (7.0 x 3.50 mts.)
2. Toilet (sink, shower, bidet, with handrails, shower chair, door has a minimum of 32 inches of width)
3. Stainless Steel Sink with soap and towel dispenser
4. Space for personal hygiene/grooming
5. Dining table for eating/feeding
6. Sink for wash area (utensils)
7. Bed to sleep/rest.
8. Furniture (movable tables and chairs/sofa)

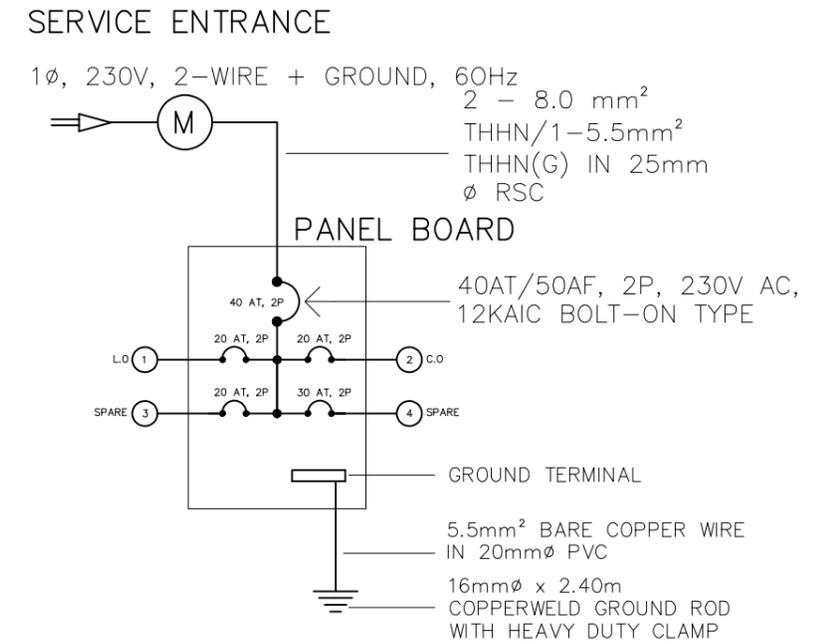
GENERAL NOTES

- ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC). THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
- THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE + GROUND 230 V AC, 60 Hz.
- WIRING METHOD SHALL BE AS FOLLOWS :
 - FEEDERS AND RISERS - RIGID STEEL CONDUIT
 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT
 - BRANCH CKT., & AUXILIARY THICK WALL
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 20mm Ø TRADE/NOMINAL SIZE.
- ALL OUTLET BOXES SHALL BE POLYVINYL CHLORIDE (PVC) TYPE WITH FACTORY KNOCKOUTS.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
- EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
 - LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - PANELBOARD - 1.80 M ABOVE FINISH FLOOR

1 SINGLE LINE DIAGRAM E-2



1 RISER DIAGRAM E-2

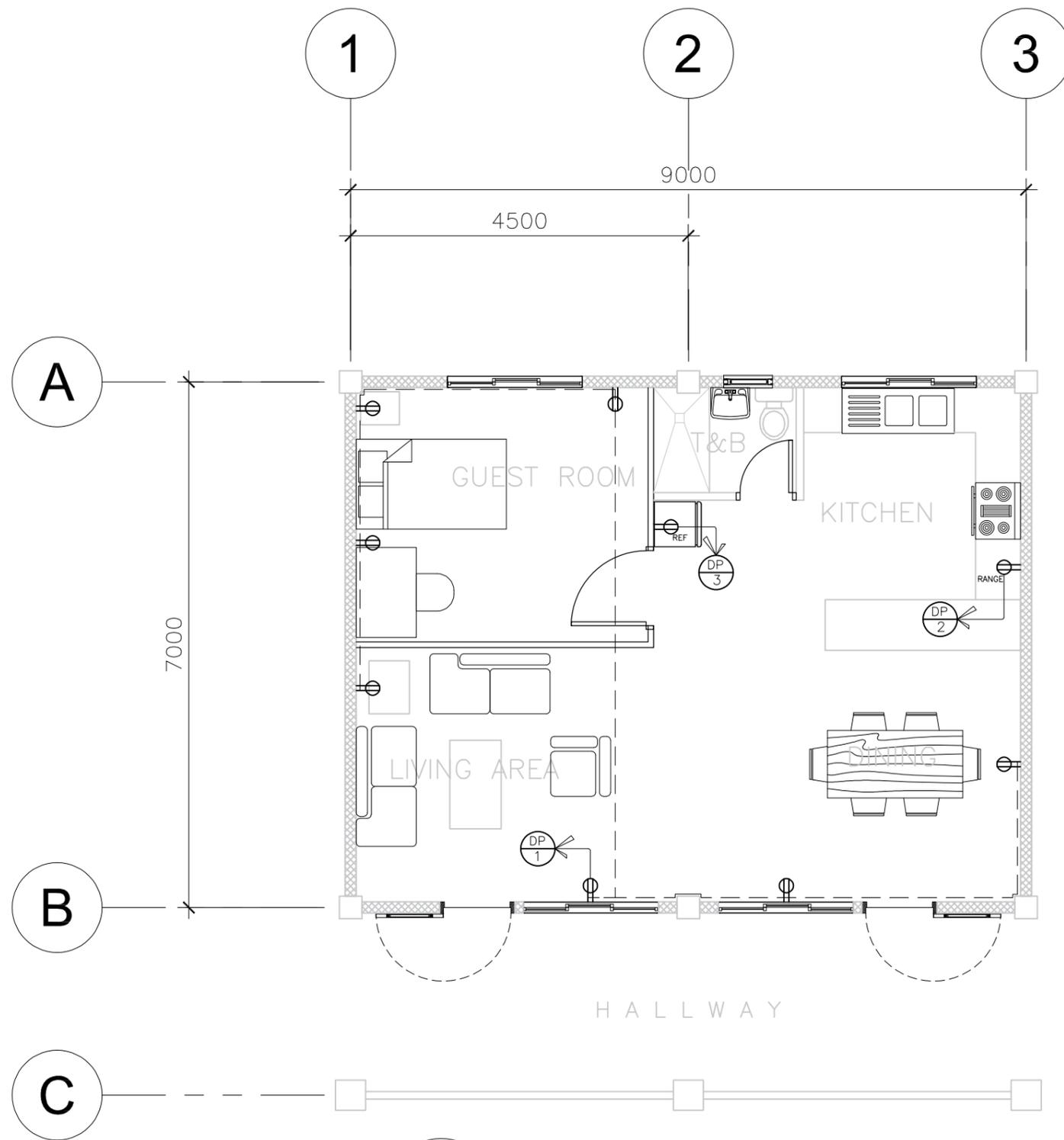


1 SCHEDULE OF LOAD E-2

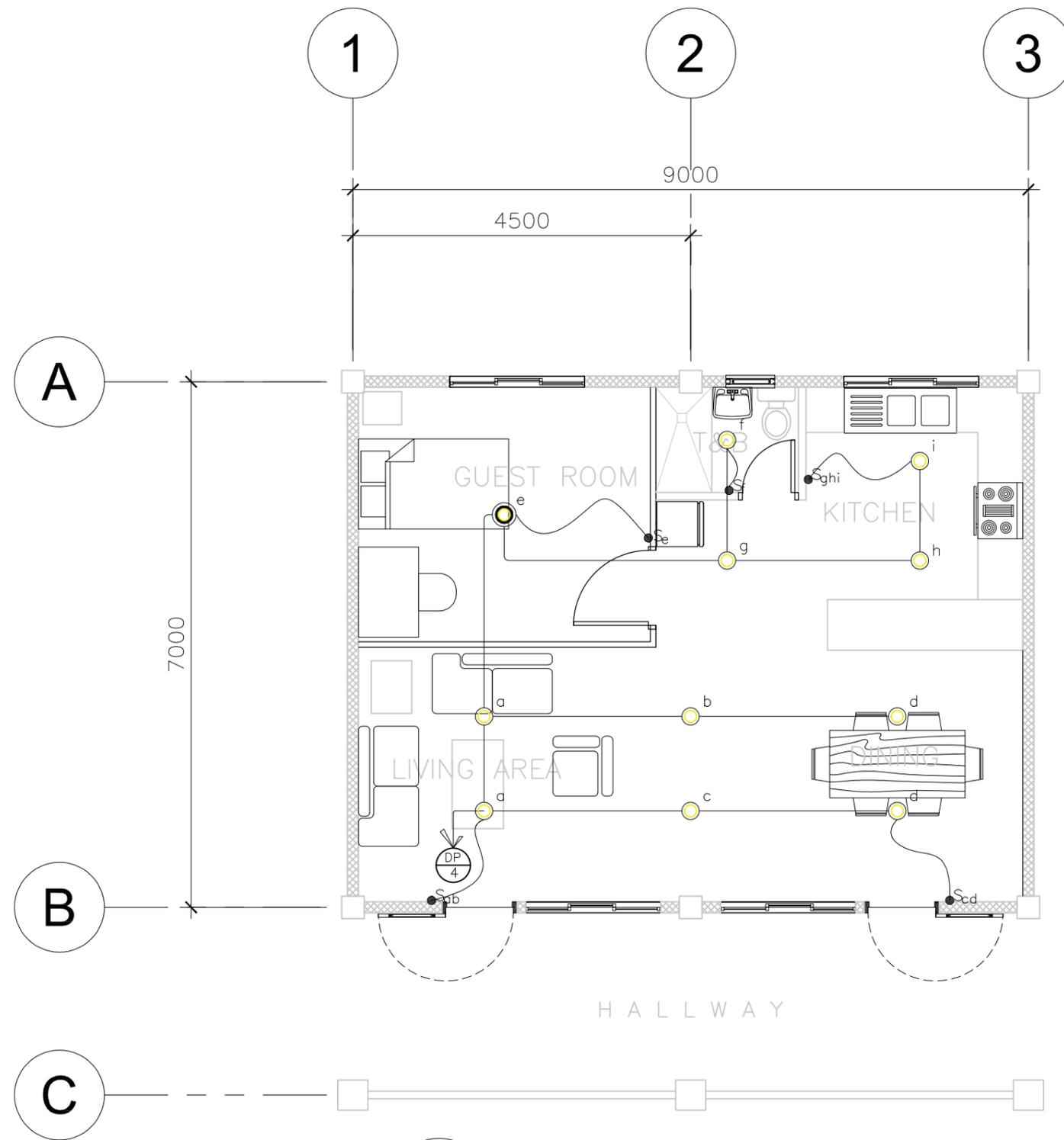
NAME OF PANEL	DP	SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE						
		PANEL LOCATION	GROUND FLOOR				X	8.0 mm ²	R,B	AT	50	A			
ENCLOSURE TYPE	NEMA 1	DP				G	5.5 mm ²	GREEN	AF	50	A				
SYSTEM	230 V, 1PH, 60HZ					TYPE	THHN	P	P	2	P				
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE				CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE	
					AB	BC	CD	3Ø	AT	AF	P	X	G		
1	CONVENIENCE OUTLET	1260	230	5.48					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mmØ	PVC
2	RANGE - 8kW	6400.9	230	27.83					40	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mmØ	PVC
3	REFRIGERATOR	2300	230	10.00					30	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mmØ	PVC
4	LIGHTING OUTLET ORBIT FAN	550	230	2.39					20	50	2	2- 3.5 mm ²		20 mmØ	PVC
TOTAL		10510.9		45.70											
FOR FEEDER CURRENT		3PH + 1PH LOAD		=	45.70	A	FOR MAIN FEEDER SIZE		THHN		CONDUIT				
		25 % CONTINUOUS LOAD		=	2.50	A			X	G					
		HIGHEST CURRENT MOTOR		=	10.00	A			2- 8.0 mm ²		1- 5.5 mm ²		25 mmØ		RSC
		DEMAND FACTOR		=	80%		FOR MAIN BREAKER SIZE		AT		50				
		TOTAL LOAD CURRENT		=	38.56	A			AF		50				
									P		2				

LEGEND

SYMBOL	DESCRIPTION
S _a	ONE GANG DEVICE SWITCH
S _{ab}	TWO GANG DEVICE SWITCH
SF	FAN CONTROL SWITCH
(Symbol)	ORBIT FAN OUTLET
(Symbol)	RACEWAY CONDUIT CONCEALED IN CEILING
(Symbol)	RACEWAY CONDUIT CONCEALED UNDER FLOOR
(Symbol)	PANELBOARD, MARKED AS "MDP/DPA/DPB"
(Symbol)	CKT. BREAKER, RATING AS INDICATED
(Symbol)	DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
(Symbol)	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
(Symbol)	CIRCUIT HOMERUN
(Symbol)	SERVICE METER
(Symbol)	SERVICE ENTRANCE



1 POWER LAYOUT
E-2 7.0 X 9.0 MTS.



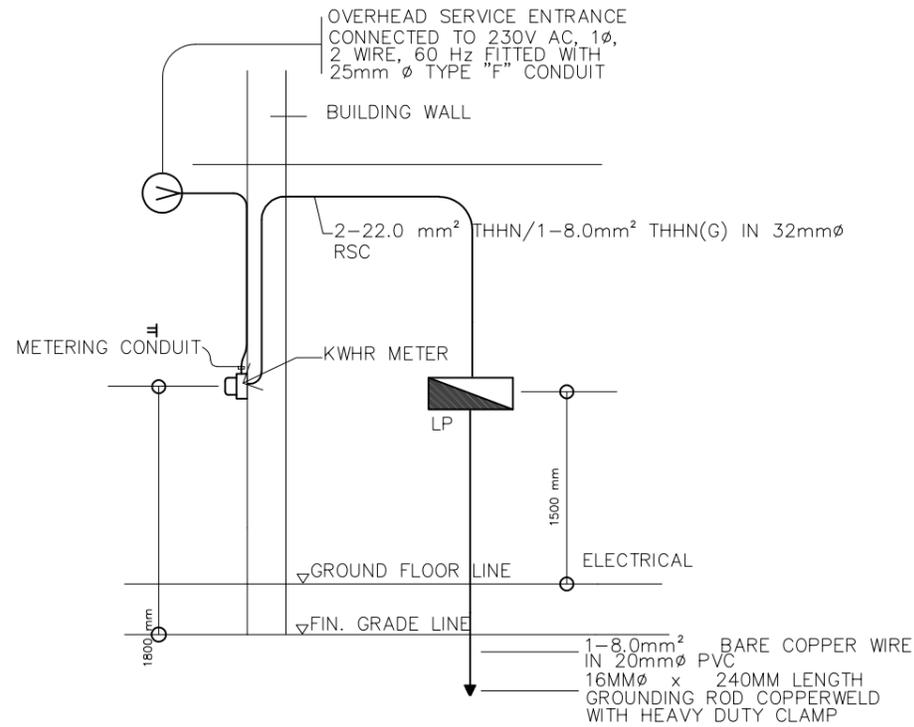
- LAMP TO BE USED :
-  - 18W LED Recessed Light Fixture
3500 –4500 K / Nature White
 -  - 18W Dimmable LED Light
(220V–240V) 50Hz
Application:
- Comfortable light
- Soft light
- General light

2 LIGHTING LAYOUT
E-2 7.0 X 9.0 MTS.

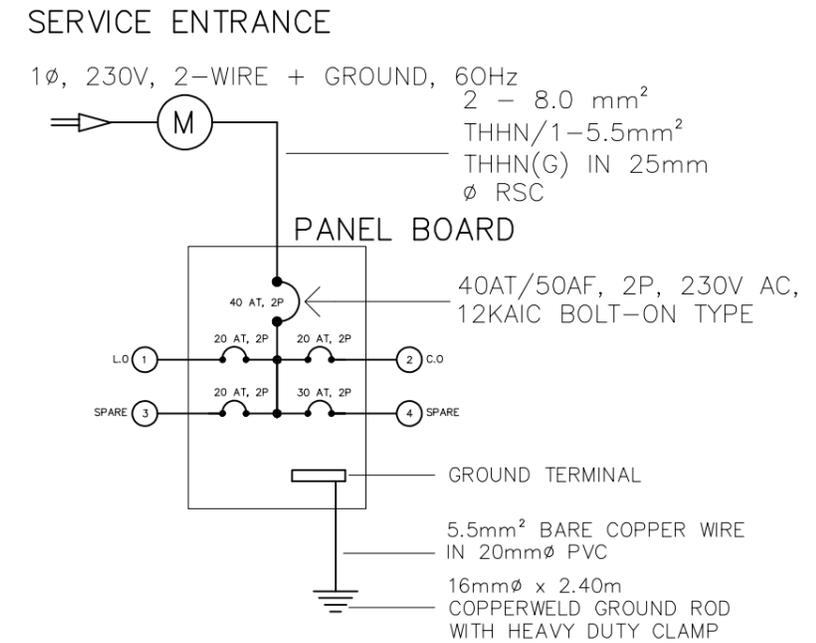
GENERAL NOTES

- ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC). THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
- THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE + GROUND 230 V AC, 60 Hz.
- WIRING METHOD SHALL BE AS FOLLOWS :
 - FEEDERS AND RISERS - RIGID STEEL CONDUIT
 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT BRANCH CKT., & AUXILIARY THICK WALL
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 20mm Ø TRADE/NOMINAL SIZE.
- ALL OUTLET BOXES SHALL BE POLYVINYL CHLORIDE (PVC) TYPE WITH FACTORY KNOCKOUTS.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
- EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
 - LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - PANELBOARD - 1.80 M ABOVE FINISH FLOOR

1 SINGLE LINE DIAGRAM E-2



1 RISER DIAGRAM E-2

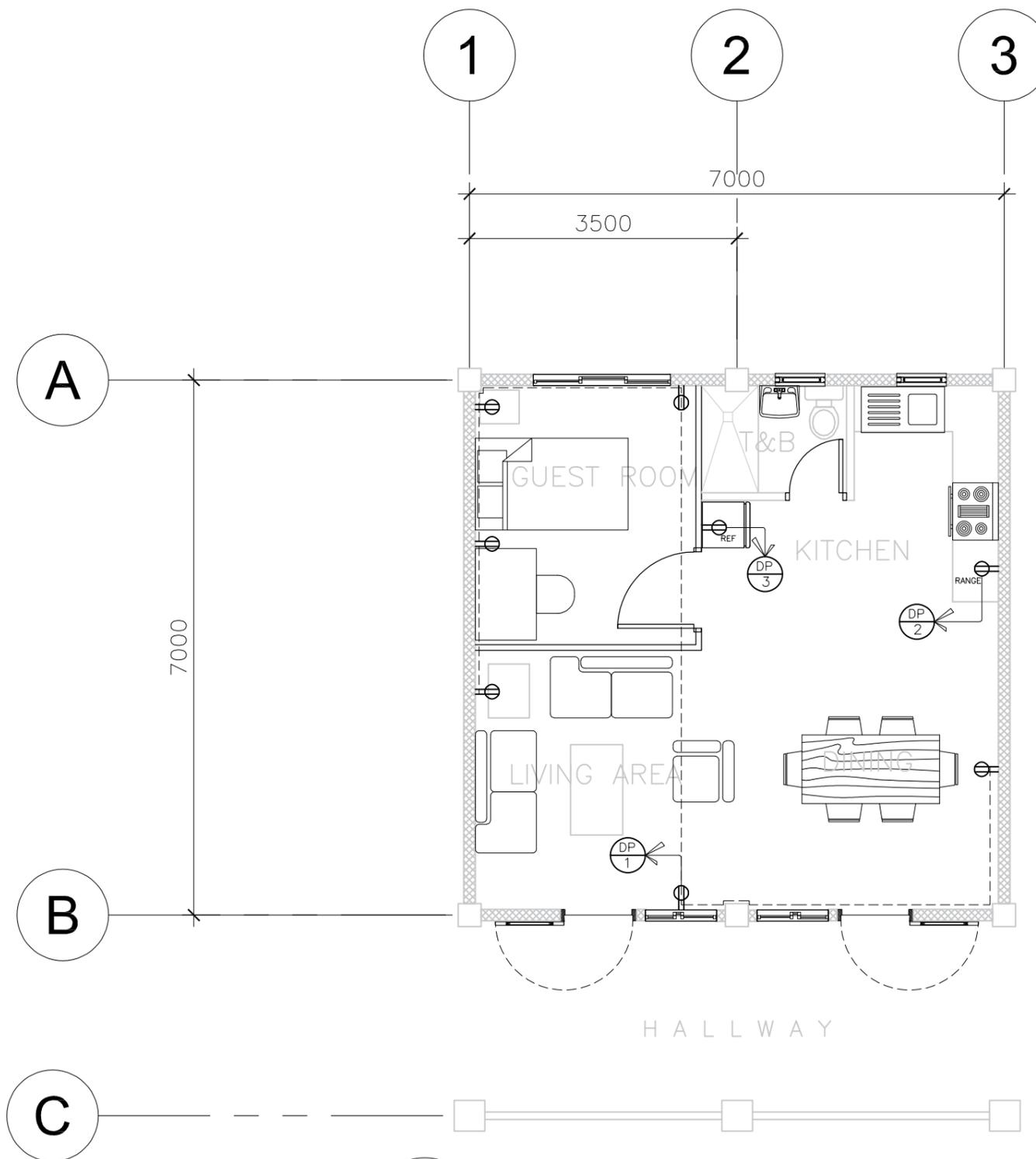


1 SCHEDULE OF LOAD E-2

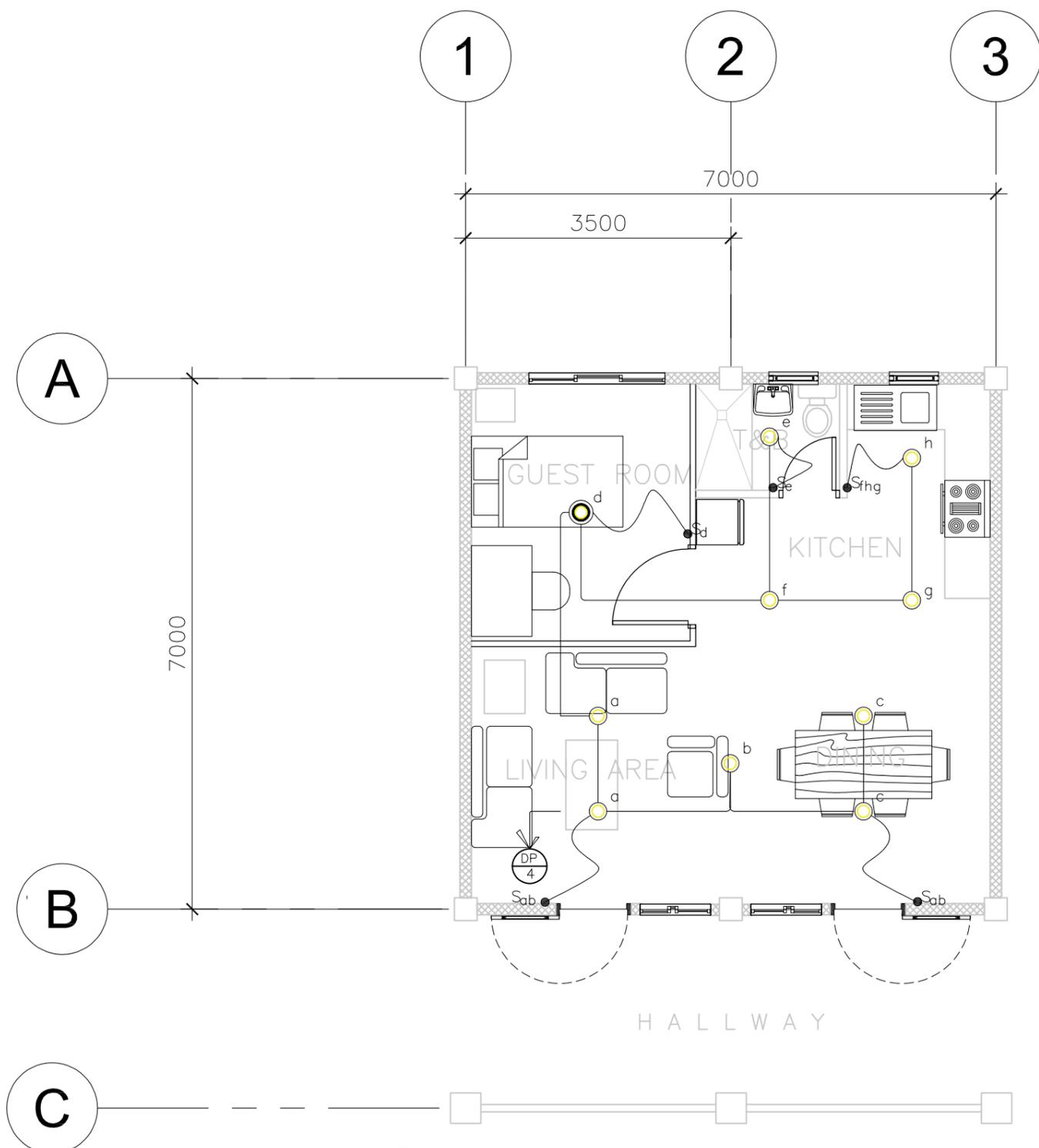
NAME OF PANEL		DP		SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE			
PANEL LOCATION		GROUND FLOOR		DP				X	8.0 mm ²	R.B	AT	50	A	
ENCLOSURE TYPE		NEMA 1						G	5.5 mm ²	GREEN	AF	50	A	
SYSTEM		230 V, 1PH, 60HZ						TYPE	THHN		P	2	P	
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE				CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE
1	CONVENIENCE OUTLET	1080	230	4.70	AB	BC	CD	3Ø	AT	AF	P	X	G	
2	RANGE - 8kW	6400.9	230	27.83					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mmØ PVC
3	REFRIGERATOR	2300	230	10.00					40	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mmØ PVC
4	LIGHTING OUTLET ORBIT FAN	400	230	1.74					30	50	2	2- 3.5 mm ²		20 mmØ PVC
TOTAL		10180.9		44.26										
FOR FEEDER CURRENT		3PH + 1PH LOAD		=	44.26	A	FOR MAIN FEEDER SIZE							
		25 % CONTINUOUS LOAD		=	2.50	A								
		HIGHEST CURRENT MOTOR DEMAND FACTOR		=	10.00	A								
		TOTAL LOAD CURRENT		=	37.41	A	FOR MAIN BREAKER SIZE							

LEGEND

SYMBOL	DESCRIPTION
S _a	ONE GANG DEVICE SWITCH
S _{ab}	TWO GANG DEVICE SWITCH
SF	FAN CONTROL SWITCH
(Orbit Fan Symbol)	ORBIT FAN OUTLET
(Solid Line)	RACEWAY CONDUIT CONCEALED IN CEILING
(Dashed Line)	RACEWAY CONDUIT CONCEALED UNDER FLOOR
(Panelboard Symbol)	PANELBOARD, MARKED AS "MDP/DPA/DPB"
(Circuit Breaker Symbol)	CKT. BREAKER, RATING AS INDICATED
(Duplex Outlet Symbol)	DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
(Special Outlet Symbol)	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
(DP Symbol)	CIRCUIT HOMERUN
(M Symbol)	SERVICE METER
(Service Entrance Symbol)	SERVICE ENTRANCE

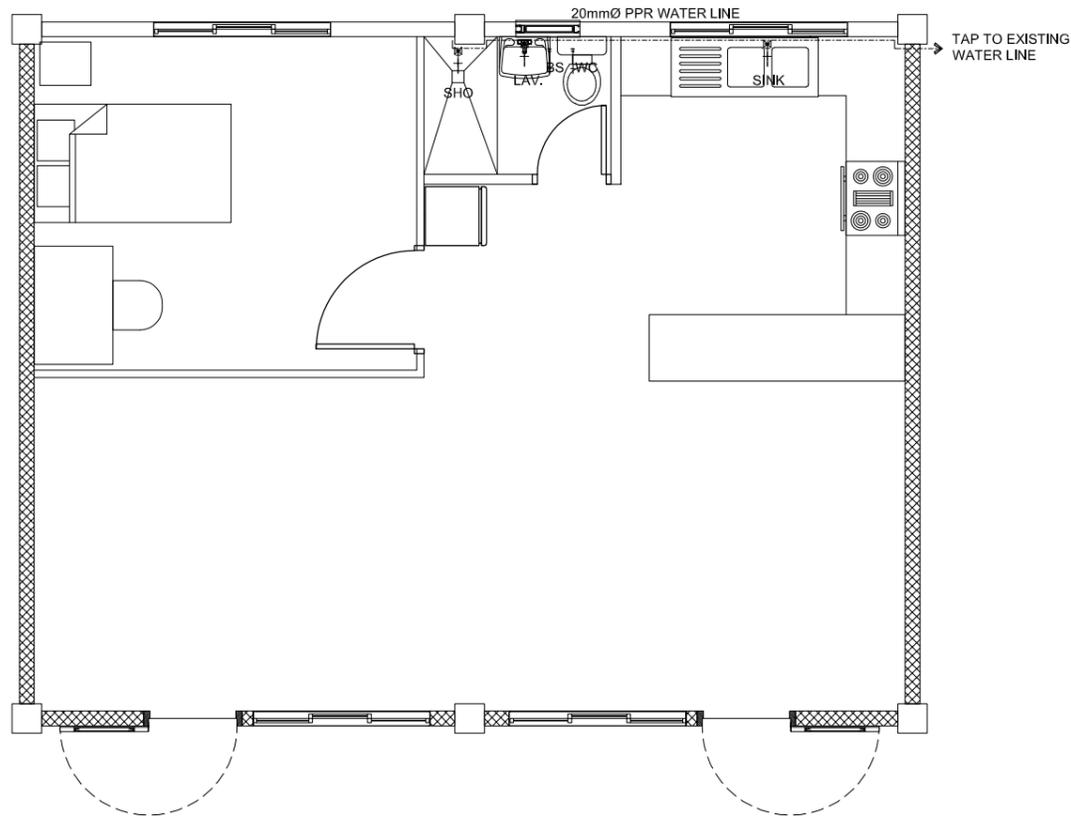


1
E-2
POWER LAYOUT
7.0 X 9.0 MTS.



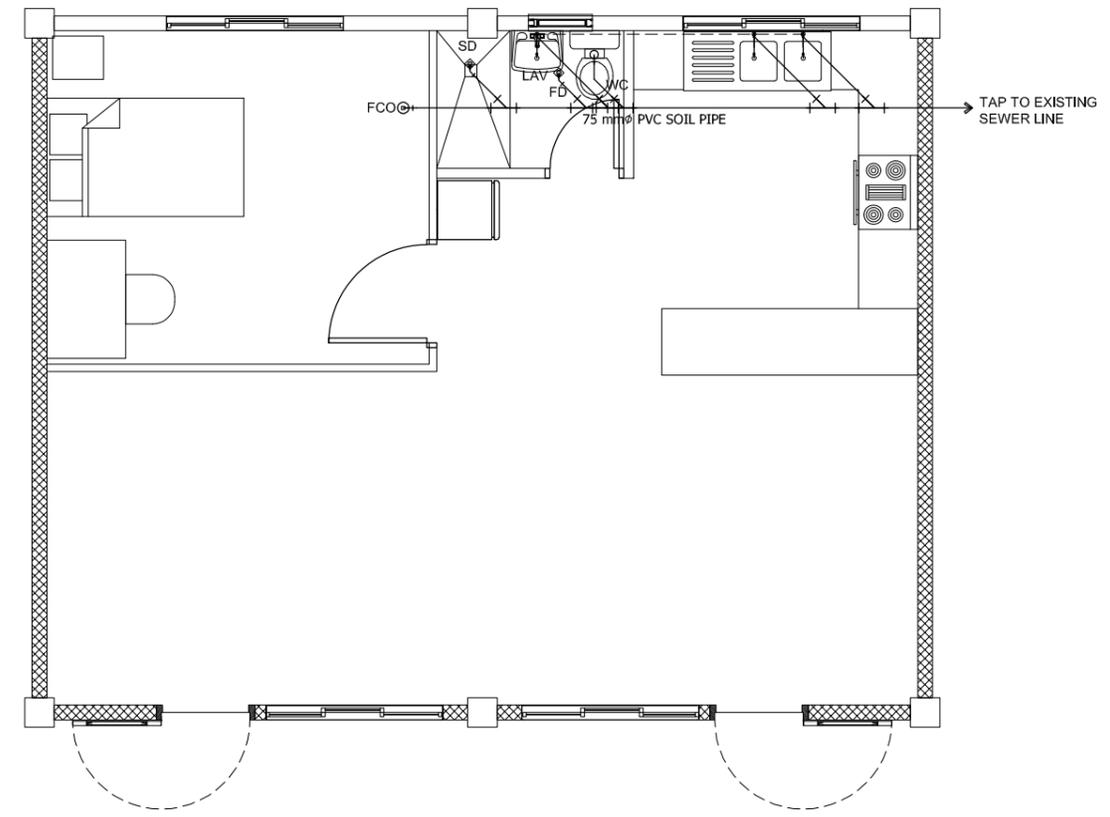
2
LIGHTING LAYOUT
E-2
7.0 X 9.0 MTS.

- LAMP TO BE USED :**
- 18W LED Recessed Light Fixture
 3500 – 4500 K / Nature White
 - 18W Dimmable LED Light
 (220V–240V) 50Hz
 Application:
 - Comfortable light
 - Soft light
 - General light



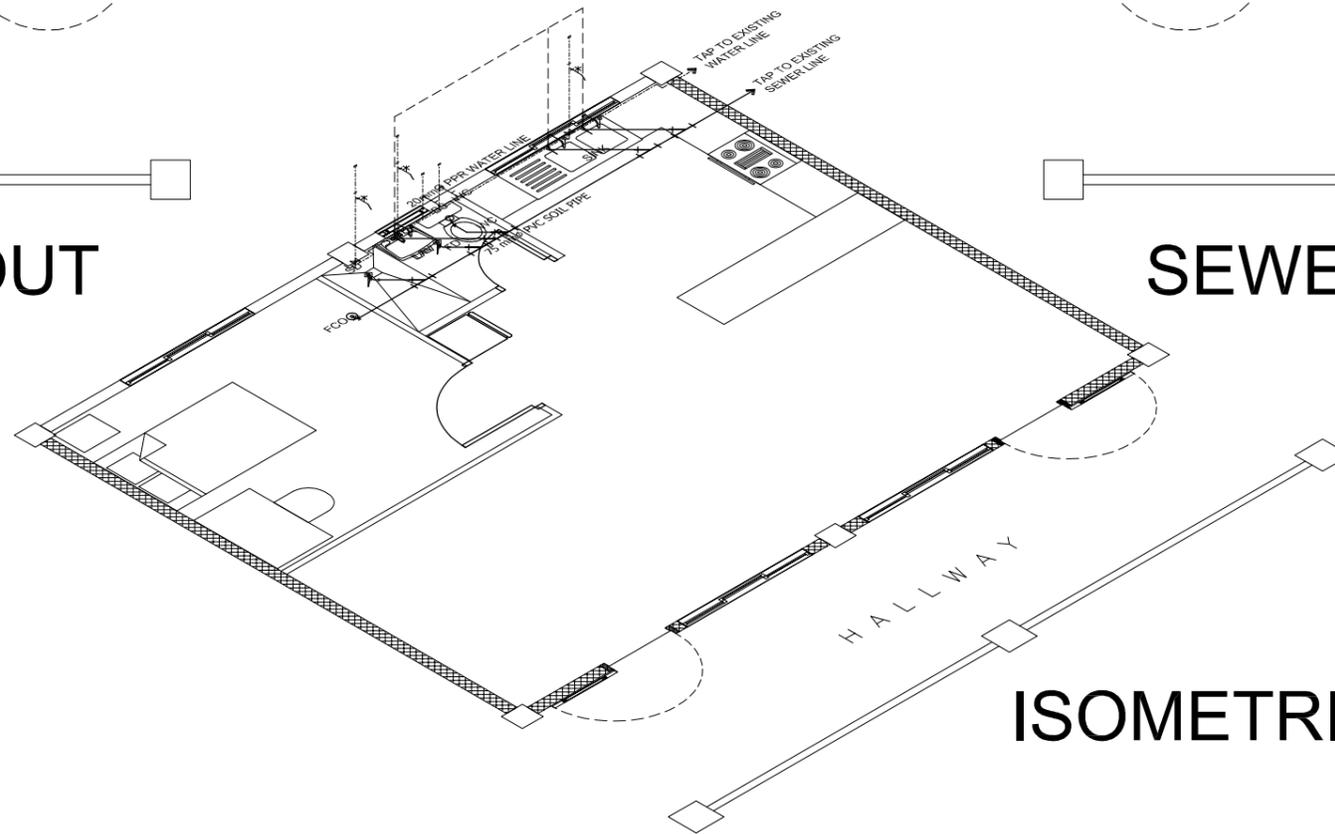
HALLWAY

WATER LINE LAYOUT



HALLWAY

SEWER LINE LAYOUT



HALLWAY

ISOMETRIC VIEW

REPUBLIC OF THE PHILIPPINES



DRAWN BY :

JUNELSON P. CULLADO
CAD OPERATOR
EFD-DepED

PROJECT TITLE :

DAILY LIVING SKILLS

APPROVED BY :

LEILA P. AREOLA
DIRECTOR IV
BEREAU OF LEARNING DELIVERY

PROJECT CODE:

OWNER :

DEPARTMENT OF EDUCATION
DepED

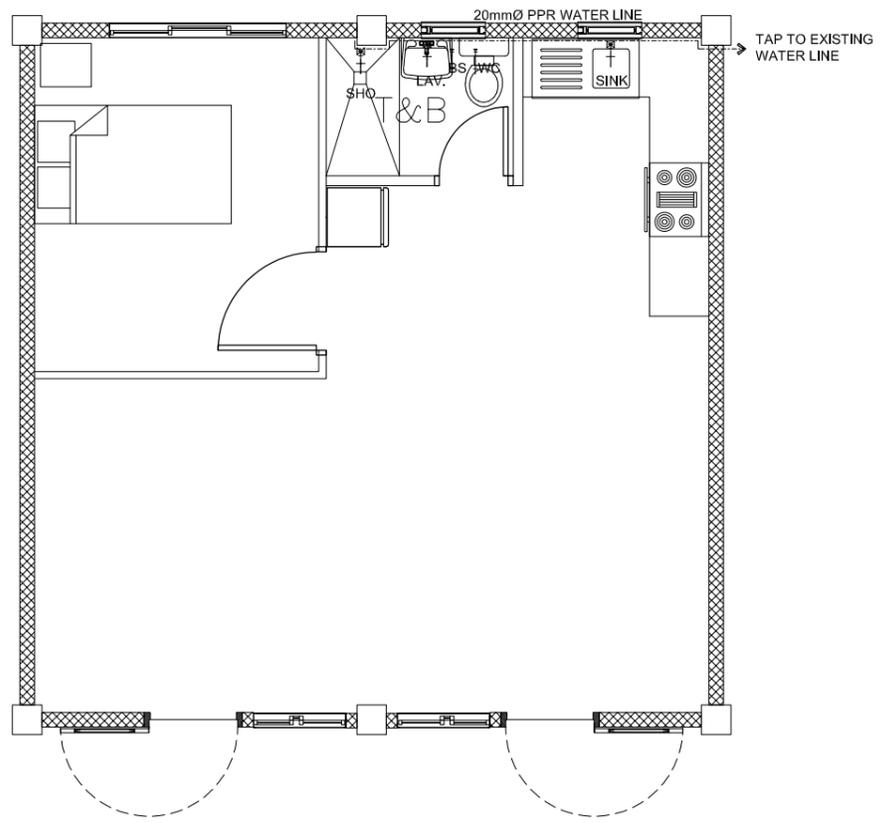
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- FLOOR LAYOUT

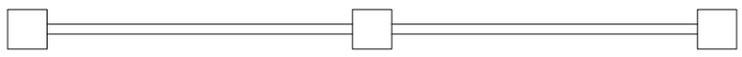
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A-1

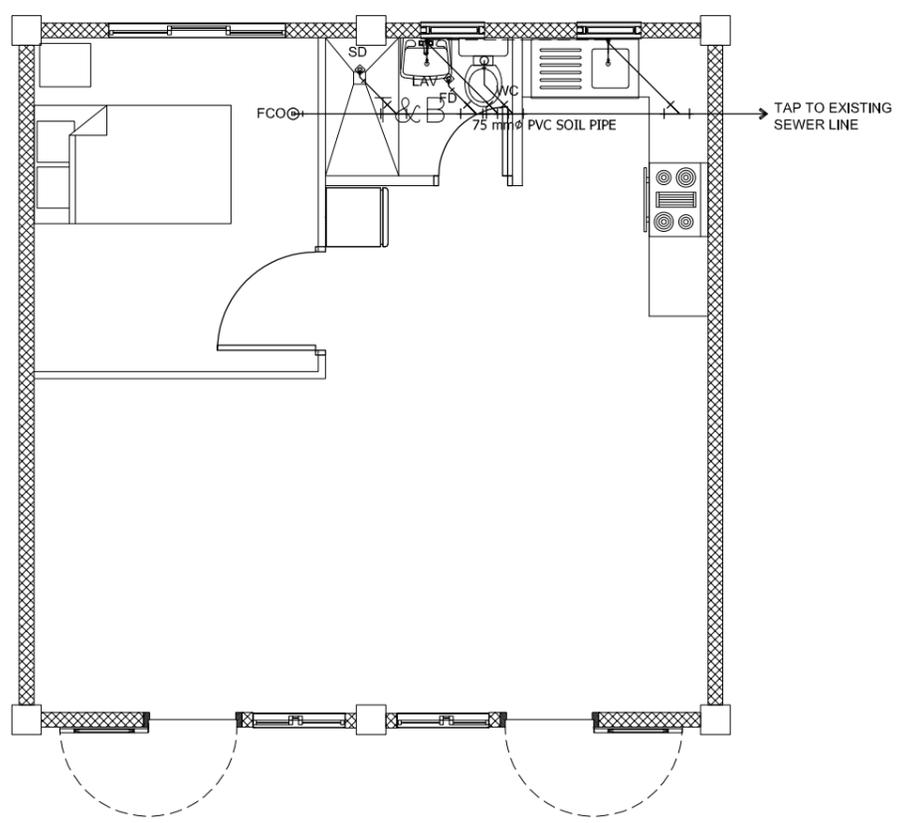
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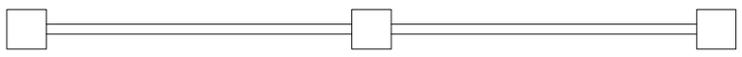
HALLWAY



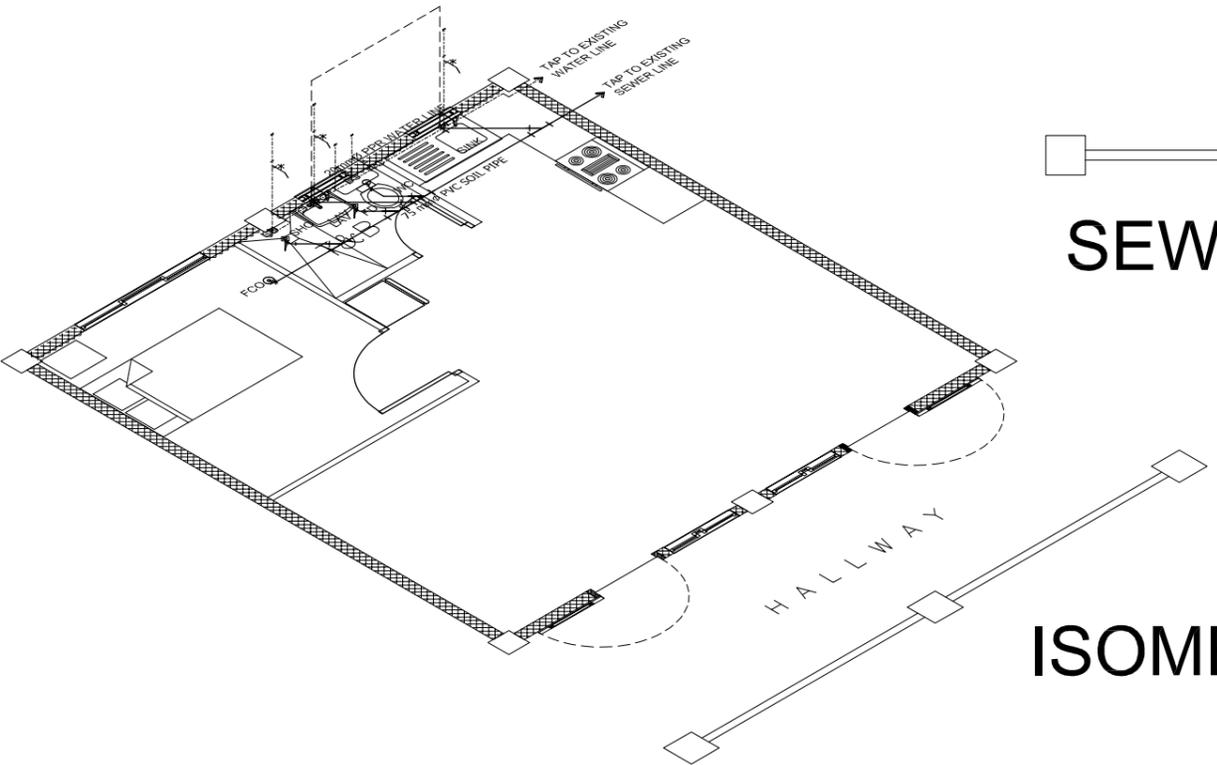
WATER LINE LAYOUT



HALLWAY

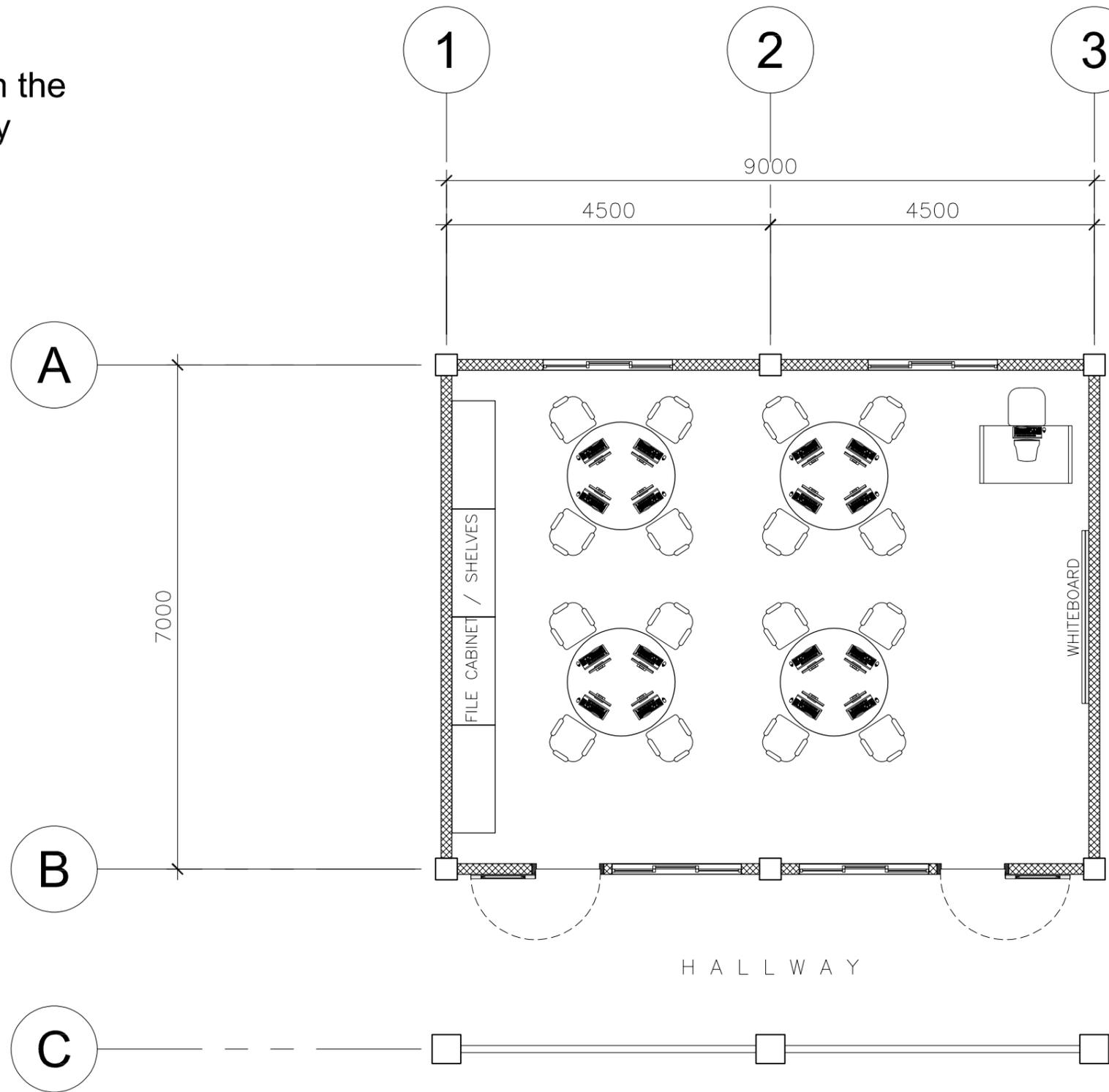


SEWER LINE LAYOUT



ISOMETRIC VIEW

This room will help learners develop, improve, and maintain the skills targeted for daily living.

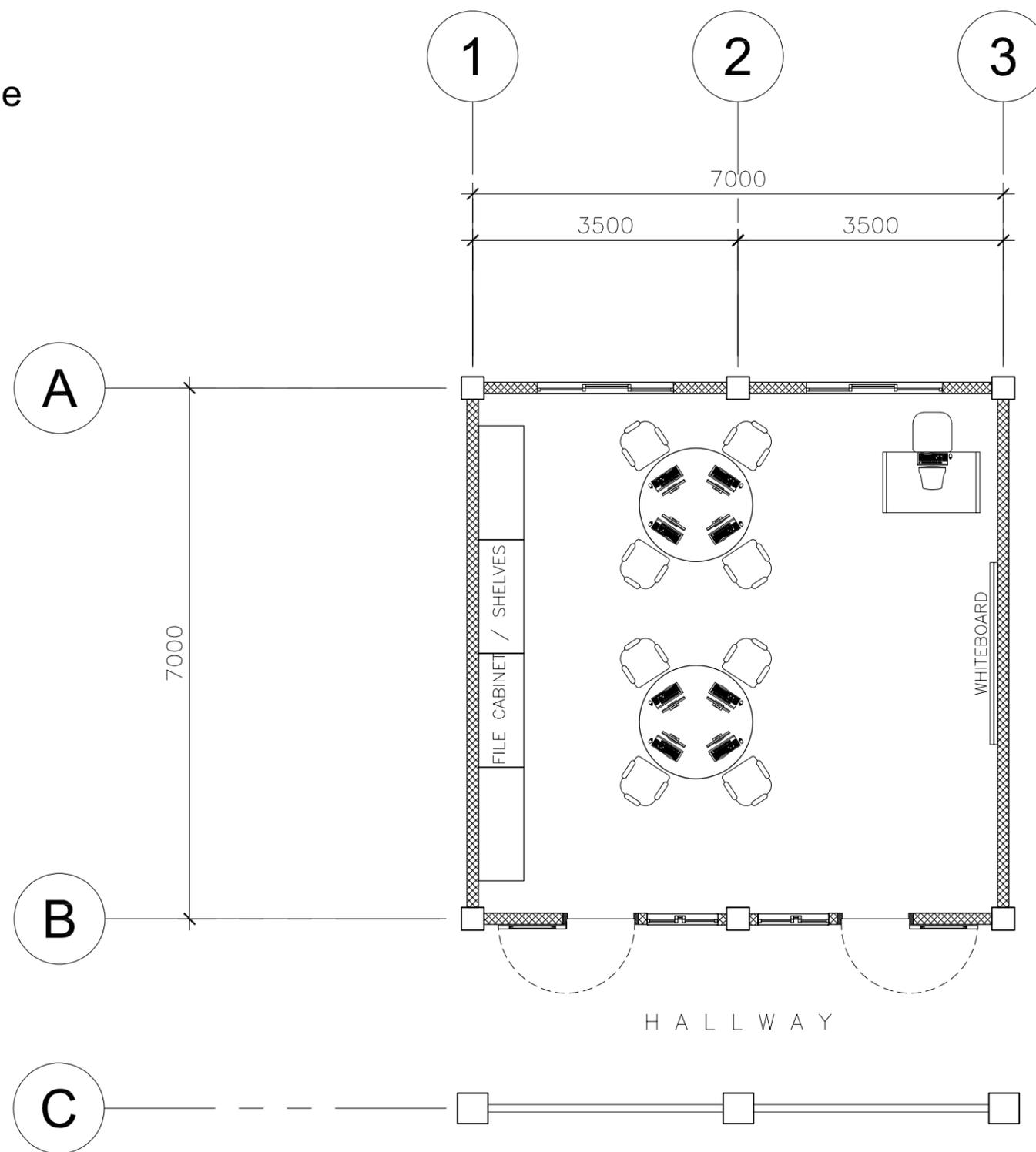


FLOOR LAYOUT
7.0 X 9.0 MTS.

BASIC FEATURES

1. 7m x 7m or 7m x 9m Classroom
2. Provision of sink
3. Provision for
 - Table and chair
 - shelves
 - Sewing machine
 - Working table
 - Floor Carpeting
4. Lighting soft color, dimmable light

This room will help learners develop, improve, and maintain the skills targeted for daily living.



FLOOR LAYOUT
7.0 X 7.0 MTS.

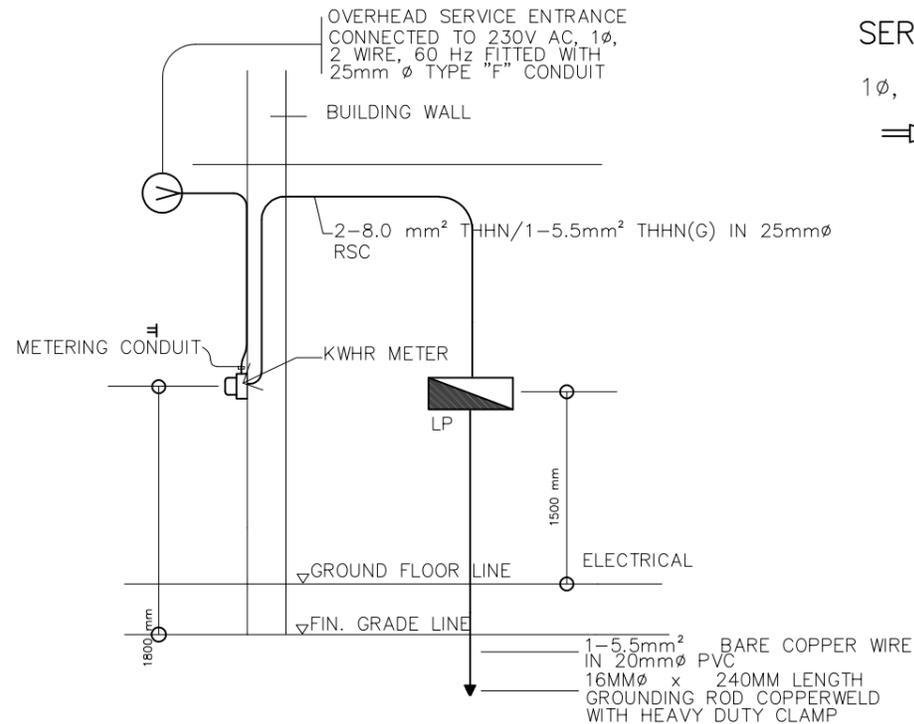
BASIC FEATURES

1. 7m x 7m or 7m x 9m Classroom
2. Provision of sink
3. Provision for
 - Table and chair
 - shelves
 - Sewing machine
 - Working table
 - Floor Carpeting
4. Lighting soft color, dimmable light

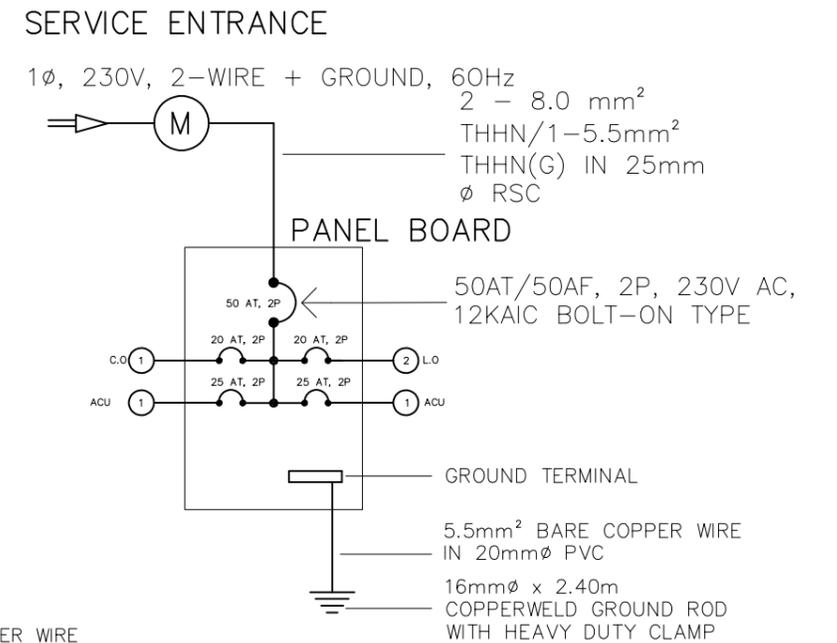
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- THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE + GROUND 230 V AC, 60 Hz.
- WIRING METHOD SHALL BE AS FOLLOWS :
 - FEEDERS AND RISERS - RIGID STEEL CONDUIT
 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT
 - BRANCH CKT., & AUXILIARY THICK WALL
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 20mm ϕ TRADE/NOMINAL SIZE.
- ALL OUTLET BOXES SHALL BE POLYVINYL CHLORIDE (PVC) TYPE WITH FACTORY KNOCKOUTS.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
- EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
 - LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - PANELBOARD - 1.80 M ABOVE FINISH FLOOR

1 SINGLE LINE DIAGRAM



2 RISER DIAGRAM

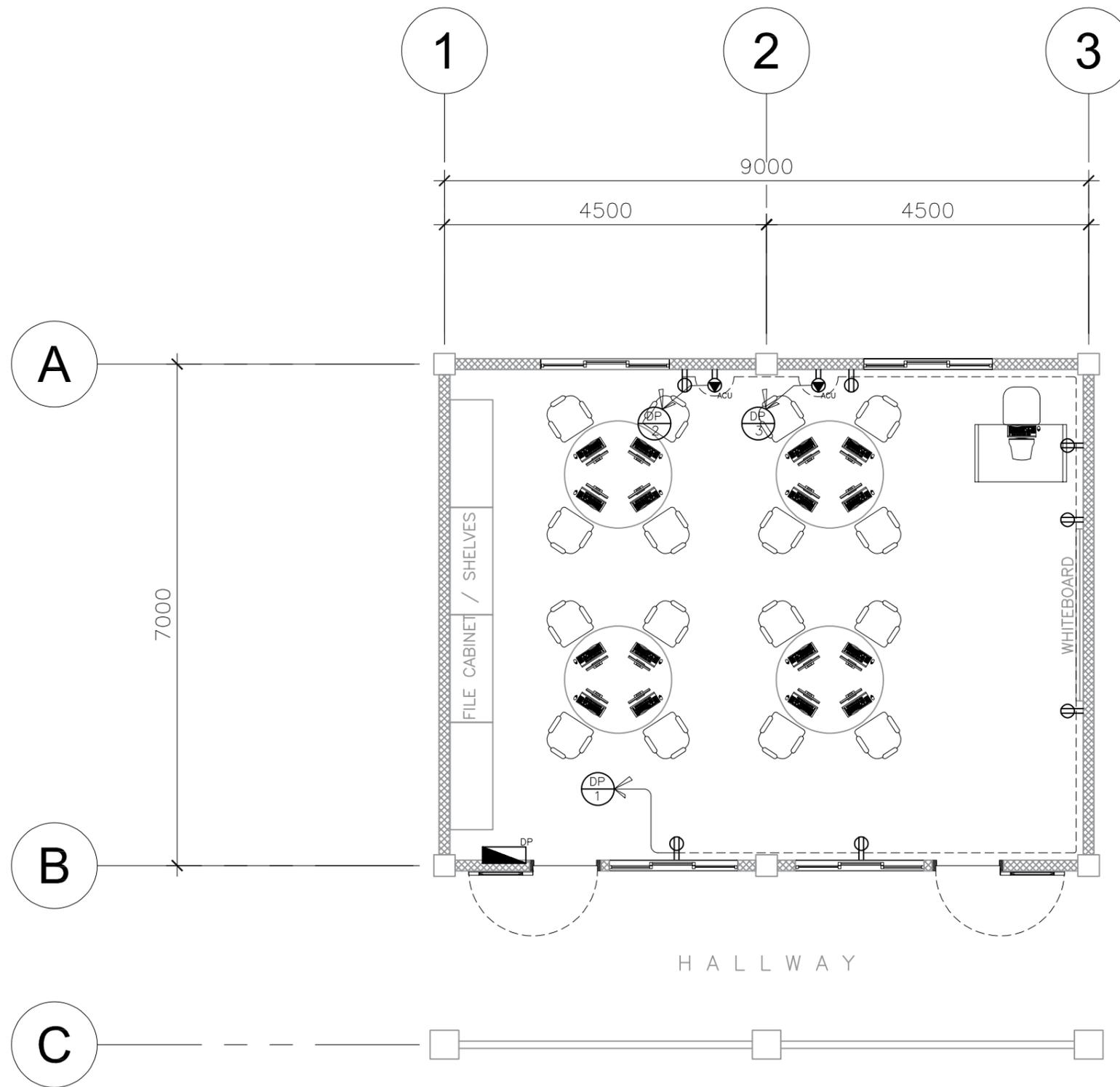


3 SCHEDULE OF LOAD

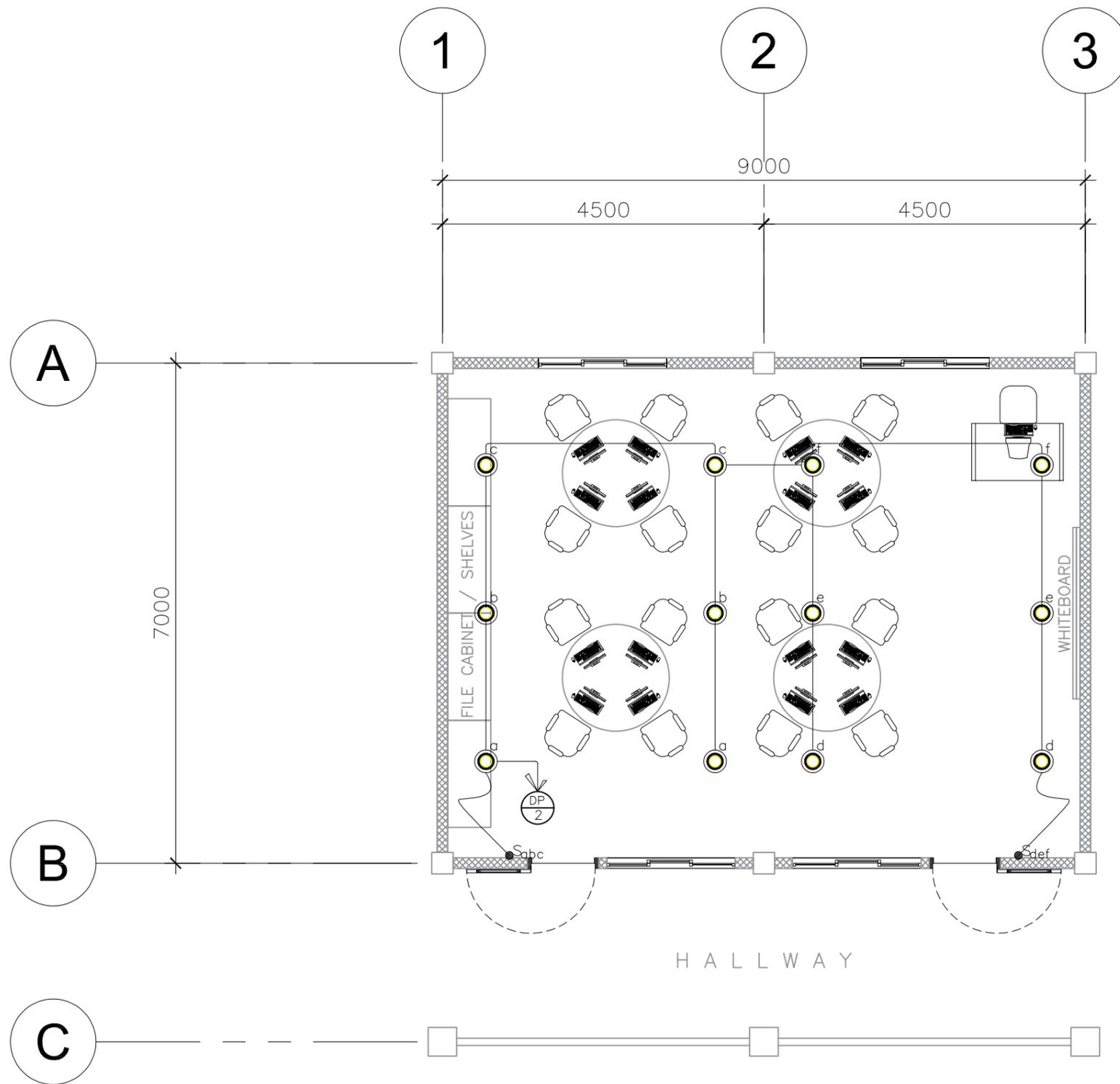
NAME OF PANEL		DP		SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE						
PANEL LOCATION		GROUND FLOOR		DP				X	8.0 mm ²	R,B	AT	50	A				
ENCLOSURE TYPE		NEMA 1						G	5.5 mm ²	GREEN	AF	100	A				
SYSTEM		230 V, 1PH, 60HZ						TYPE	THHN	P	2	P					
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE				CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE			
1	CONVENIENCE OUTLET	1260	230	5.48	AB	BC	CD	3 ϕ	AT	AF	P	X	G				
2	AIRCONDITIONING UNIT 1.5HP	2300	230	10.00					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mm ϕ PVC			
3	AIRCONDITIONING UNIT 1HP	1840	230	8.00					25	50	2	2- 5.5 mm ²	1- 3.5 mm ²	20 mm ϕ PVC			
4	LIGHTING OUTLET	480	230	2.09					20	50	2	2- 3.5 mm ²		20 mm ϕ PVC			
TOTAL		5880		25.57													
FOR FEEDER CURRENT												FOR MAIN FEEDER SIZE				FOR MAIN BREAKER SIZE	
3PH + 1PH LOAD		=	25.57	A								THHN					
25 % CONTINUOUS LOAD		=	2.50	A								X	G	CONDUIT			
HIGHEST CURRENT MOTOR		=	10.00	A								2- 8.0 mm ²		1- 5.5 mm ²	25 mm ϕ RSC		
DEMAND FACTOR		=	80%									AT		50			
TOTAL LOAD CURRENT		=	22.45	A								AF		100			
											P		2				

LEGEND

SYMBOL	DESCRIPTION
S _a	ONE GANG DEVICE SWITCH
S _{ab}	TWO GANG DEVICE SWITCH
SF	FAN CONTROL SWITCH
(Symbol)	ORBIT FAN OUTLET
(Symbol)	RACEWAY CONDUIT CONCEALED IN CEILING
(Symbol)	RACEWAY CONDUIT CONCEALED UNDER FLOOR
(Symbol)	PANELBOARD, MARKED AS "MDP/DPA/DPB"
(Symbol)	CKT. BREAKER, RATING AS INDICATED
(Symbol)	DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
(Symbol)	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
(Symbol)	CIRCUIT HOMERUN
(Symbol)	SERVICE METER
(Symbol)	SERVICE ENTRANCE



1
E-2 POWER LAYOUT
7.0 X 9.0 MTS.



2
E-2 LIGHTING LAYOUT
7.0 X 9.0 MTS.

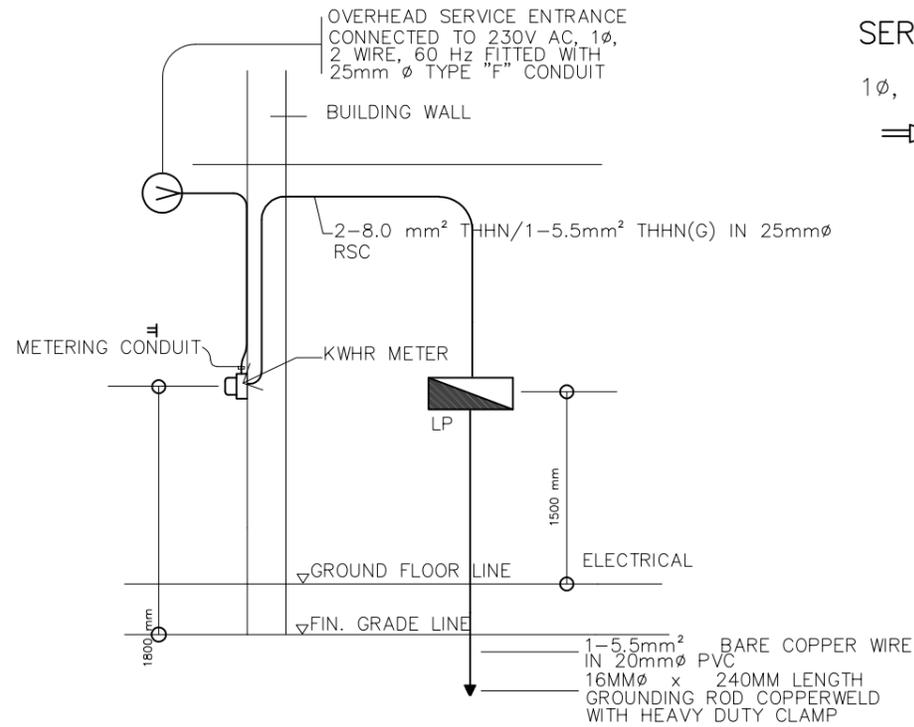
LAMP TO BE USED :

 1- 11W DIMMABLE LED LIGHT
(220V-240V) 50Hz
APPLICATION:
- Comfortable light
- Soft light
- General light

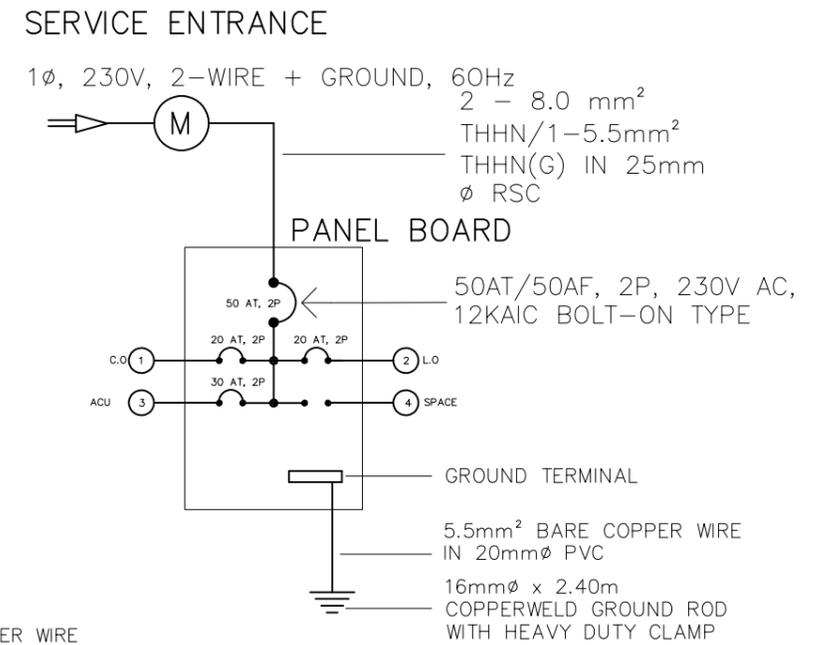
GENERAL NOTES

- ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC). THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
- THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE + GROUND 230 V AC, 60 Hz.
- WIRING METHOD SHALL BE AS FOLLOWS :
 - FEEDERS AND RISERS - RIGID STEEL CONDUIT
 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT
 - BRANCH CKT., & AUXILIARY THICK WALL
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 20mm Ø TRADE/NOMINAL SIZE.
- ALL OUTLET BOXES SHALL BE POLYVINYL CHLORIDE (PVC) TYPE WITH FACTORY KNOCKOUTS.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
- EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
 - LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - PANELBOARD - 1.80 M ABOVE FINISH FLOOR

1 SINGLE LINE DIAGRAM



2 RISER DIAGRAM

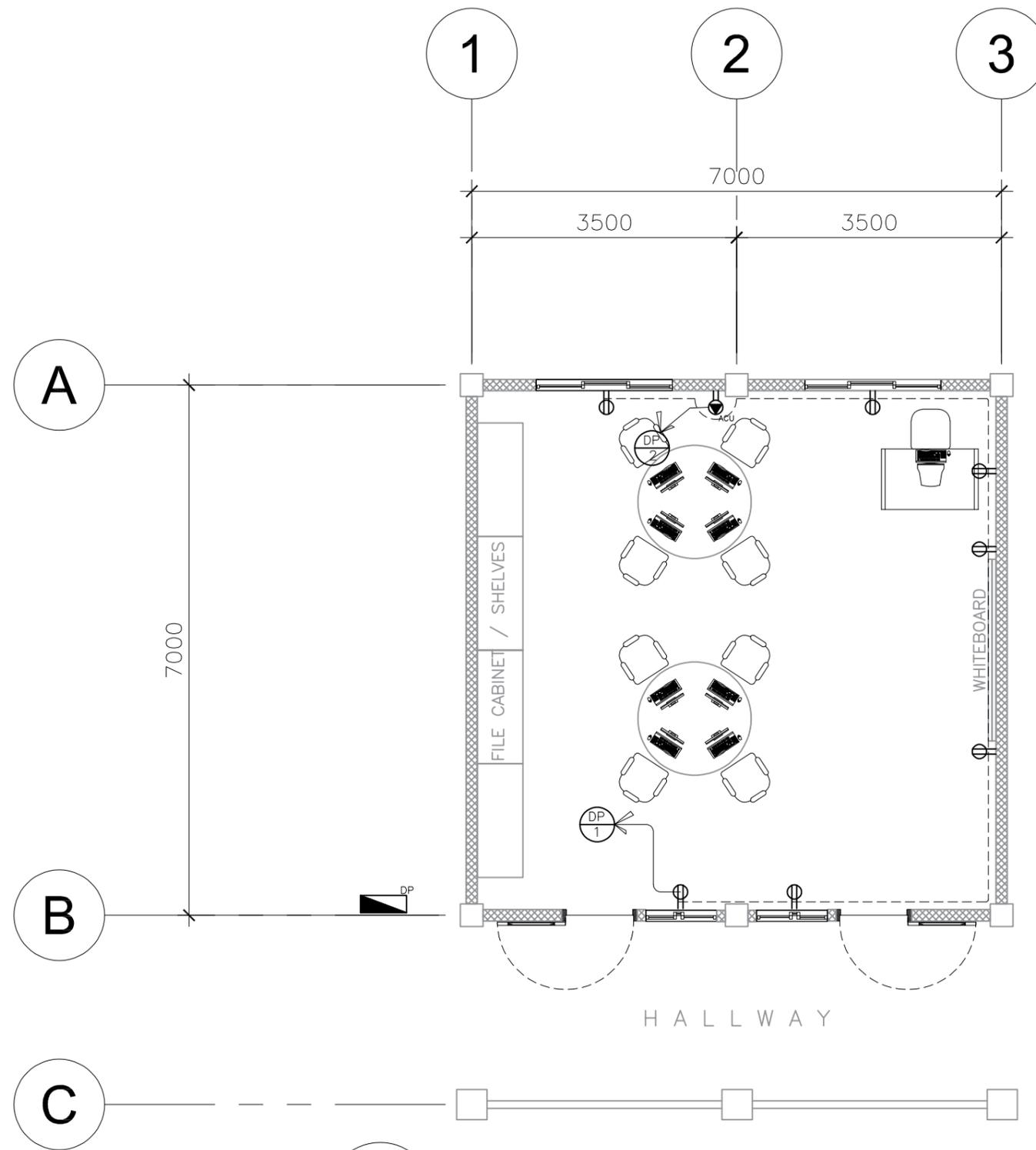


3 SCHEDULE OF LOAD

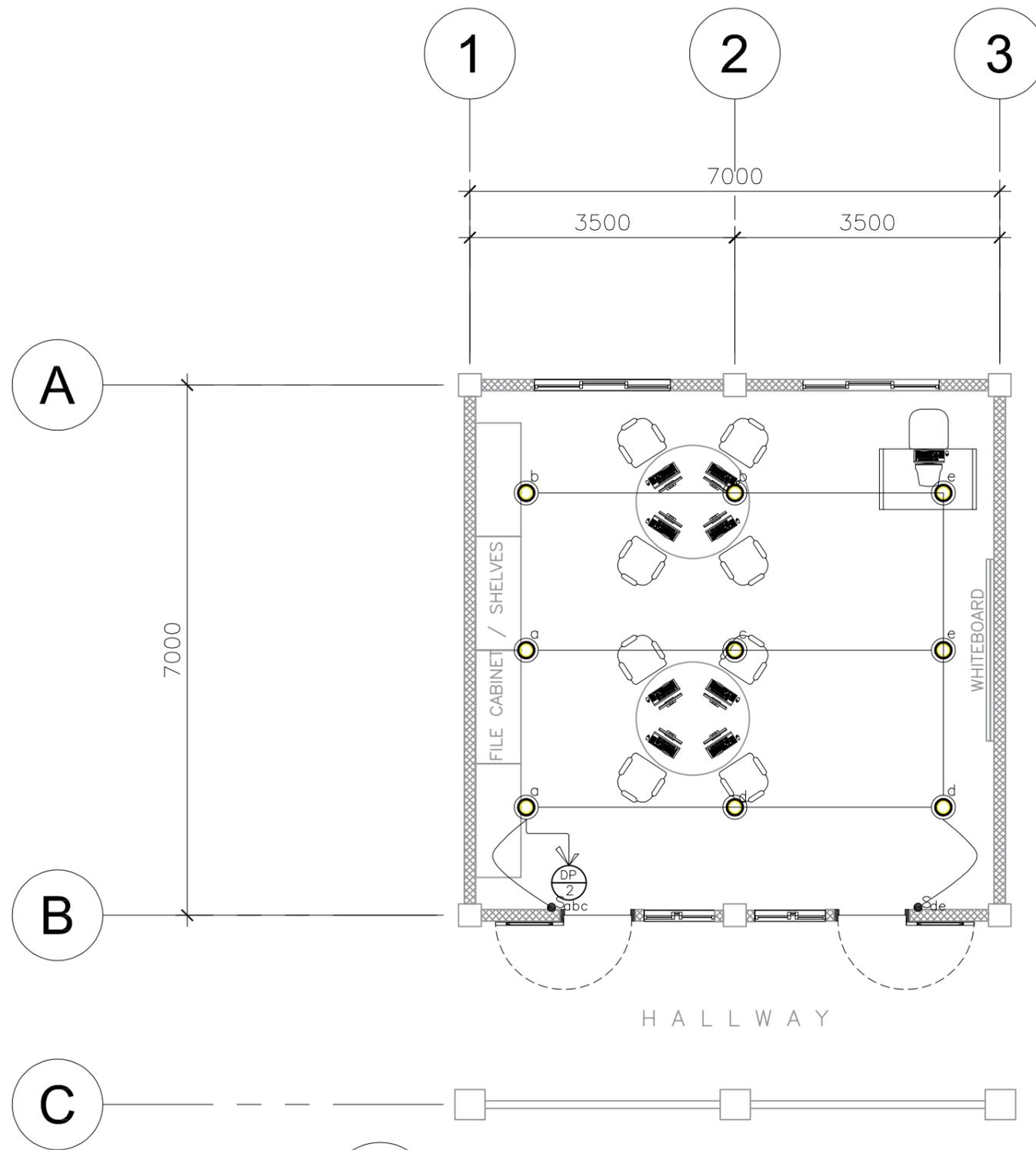
NAME OF PANEL	DP	SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE						
		PANEL LOCATION	GROUND FLOOR	DP		X	8.0 mm ²	R,B	AT	50	A				
ENCLOSURE TYPE	NEMA 1					G	5.5 mm ²	GREEN	AF	100	A				
SYSTEM	230 V, 1PH, 60HZ					TYPE	THHN	P		2	P				
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE				CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE	
1	CONVENIENCE OUTLET	1260	230	5.48	AB	BC	CD	3Ø	AT	AF	P	X	G		
2	AIRCONDITIONING UNIT 2HP	2760	230	12.00					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mmØ	PVC
3	LIGHTING OUTLET	360	230	1.57					20	50	2	2- 3.5 mm ²		20 mmØ	PVC
TOTAL		4380		19.04											
FOR FEEDER CURRENT												FOR MAIN FEEDER SIZE			
3PH + 1PH LOAD		=	19.04	A					THHN						
25 % CONTINUOUS LOAD		=	3.00	A					X	G	CONDUIT				
HIGHEST CURRENT MOTOR		=	12.00	A					2- 8.0 mm ² 1- 5.5 mm ²		25 mmØ RSC				
DEMAND FACTOR		=	80%						FOR MAIN BREAKER SIZE						
TOTAL LOAD CURRENT		=	17.63	A					AT	50					
								AF	100						
								P	2						

LEGEND

SYMBOL	DESCRIPTION
S _a	ONE GANG DEVICE SWITCH
S _{ab}	TWO GANG DEVICE SWITCH
SF	FAN CONTROL SWITCH
⊕	ORBIT FAN OUTLET
---	RACEWAY CONDUIT CONCEALED IN CEILING
---	RACEWAY CONDUIT CONCEALED UNDER FLOOR
⊕	PANELBOARD, MARKED AS "MDP/DPA/DPB"
⊕	CKT. BREAKER, RATING AS INDICATED
⊕	DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
⊕	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
⊕	CIRCUIT HOMERUN
⊕	SERVICE METER
⊕	SERVICE ENTRANCE



1
E-2
POWER LAYOUT
7.0 X 9.0 MTS.

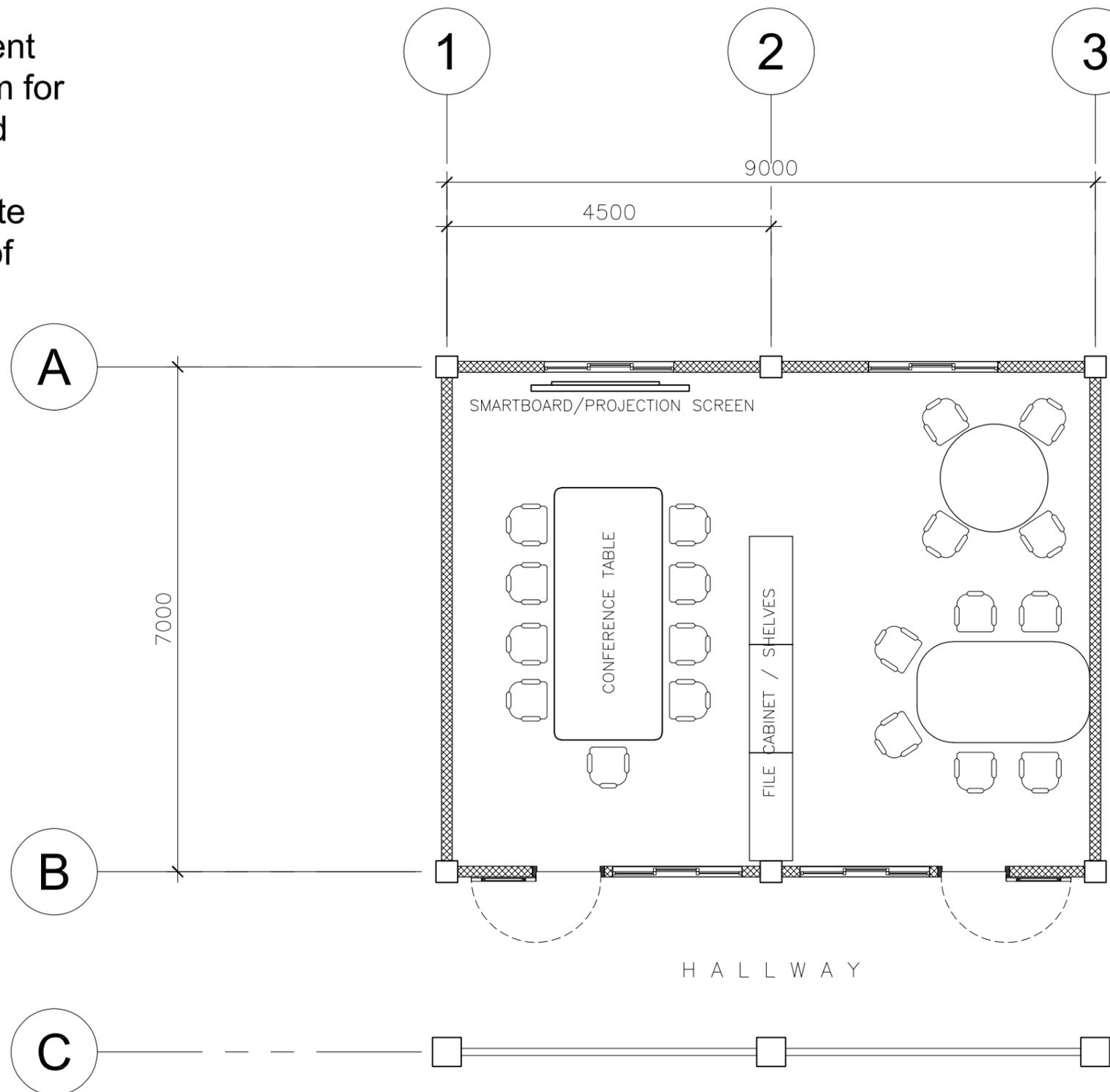


2
E-2 LIGHTING LAYOUT
7.0 X 9.0 MTS.

LAMP TO BE USED :

○ 1- 11W DIMMABLE LED LIGHT
(220V-240V) 50Hz
APPLICATION:
- Comfortable light
- Soft light
- General light

This area contains furniture and equipment that will serve as room for meeting, function, and other staff/personnel meeting for appropriate scheduling/planning of the different essential services.

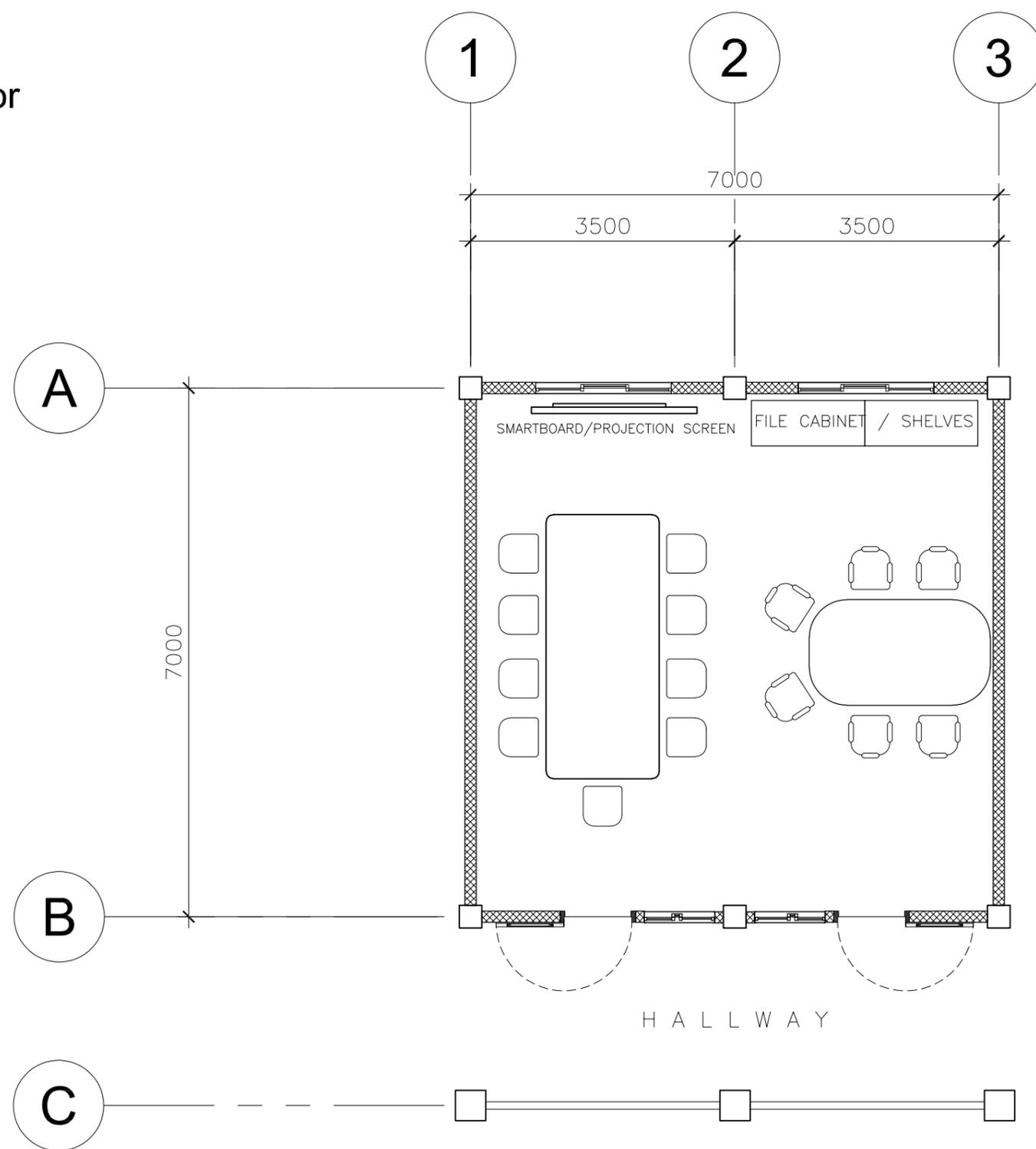


FLOOR LAYOUT
7.0 X 9.0 MTS.

BASIC FEATURES

1. Regular Classroom (7.0 x 9.0 mts.) or 7.0 x 4.50 mts.
2. Sink (nearby in kitchenette)
3. Access - adjacent to reception area and principal's office
4. Classroom storage-Credenza
5. Lighting - soft color, dimmable lighting
6. Flooring-Carpeting
7. Display - Whiteboard and tack boards
8. Rectangular table with wire

This area contains furniture and equipment that will serve as room for meeting, function, and other staff/personnel meeting for appropriate scheduling/planning of the different essential services.



FLOOR LAYOUT
7.0 X 7.0 MTS.

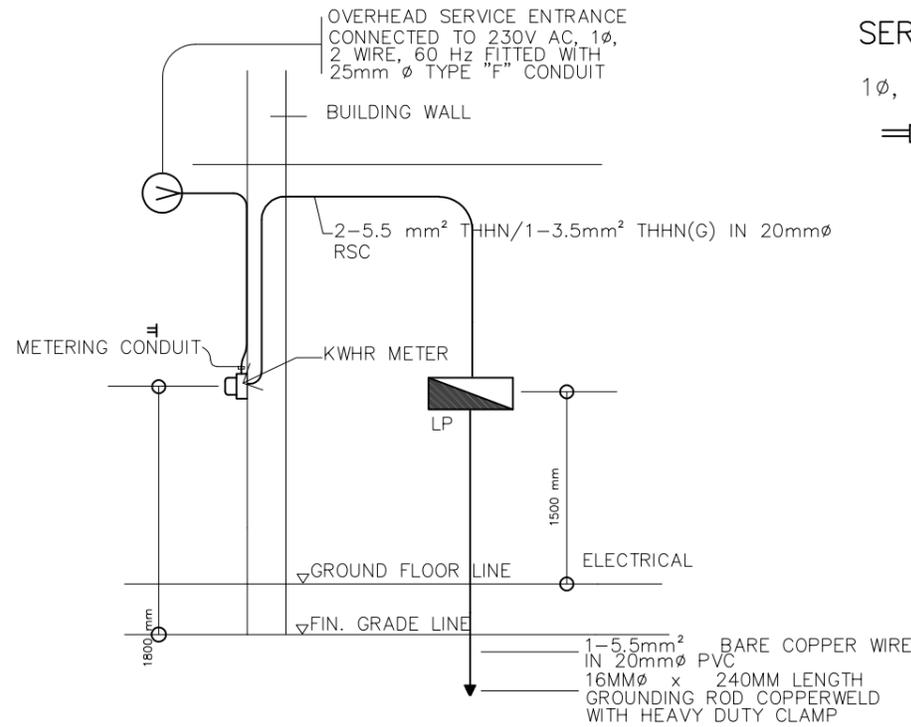
BASIC FEATURES

1. Regular Classroom (7.0 x 9.0 mts.) or 7.0 x 4.50 mts.
2. Sink (nearby in kitchenette)
3. Access - adjacent to reception area and principal's office
4. Classroom storage-Credenza
5. Lighting - soft color, dimmable lighting
6. Flooring-Carpeting
7. Display - Whiteboard and tack boards
8. Rectangular table with wire

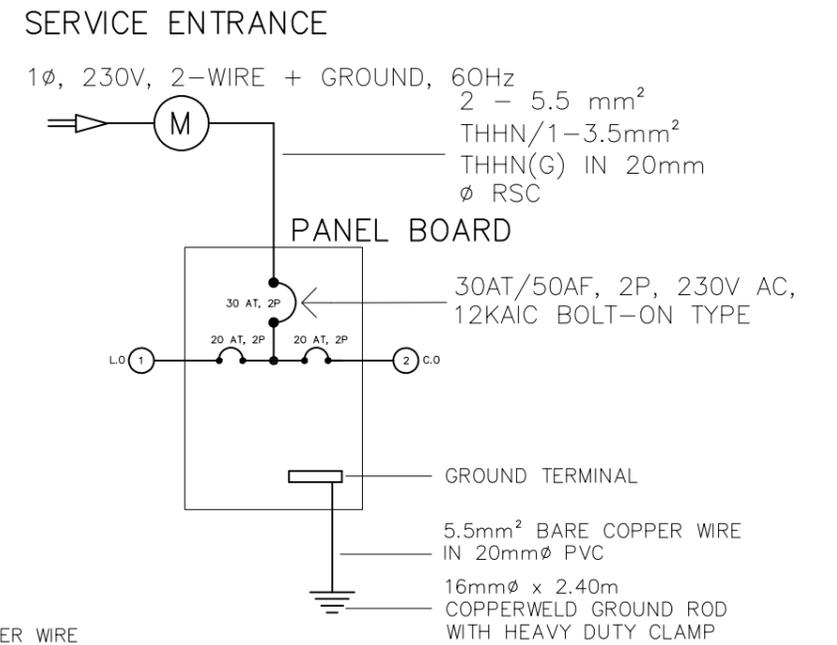
GENERAL NOTES

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- THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE + GROUND 230 V AC, 60 Hz.
- WIRING METHOD SHALL BE AS FOLLOWS :
 - FEEDERS AND RISERS - RIGID STEEL CONDUIT
 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT BRANCH CKT., & AUXILIARY THICK WALL
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 20mm Ø TRADE/NOMINAL SIZE.
- ALL OUTLET BOXES SHALL BE POLYVINYL CHLORIDE (PVC) TYPE WITH FACTORY KNOCKOUTS.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
- EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
 - LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - PANELBOARD - 1.80 M ABOVE FINISH FLOOR

1 SINGLE LINE DIAGRAM E-1



2 RISER DIAGRAM E-1

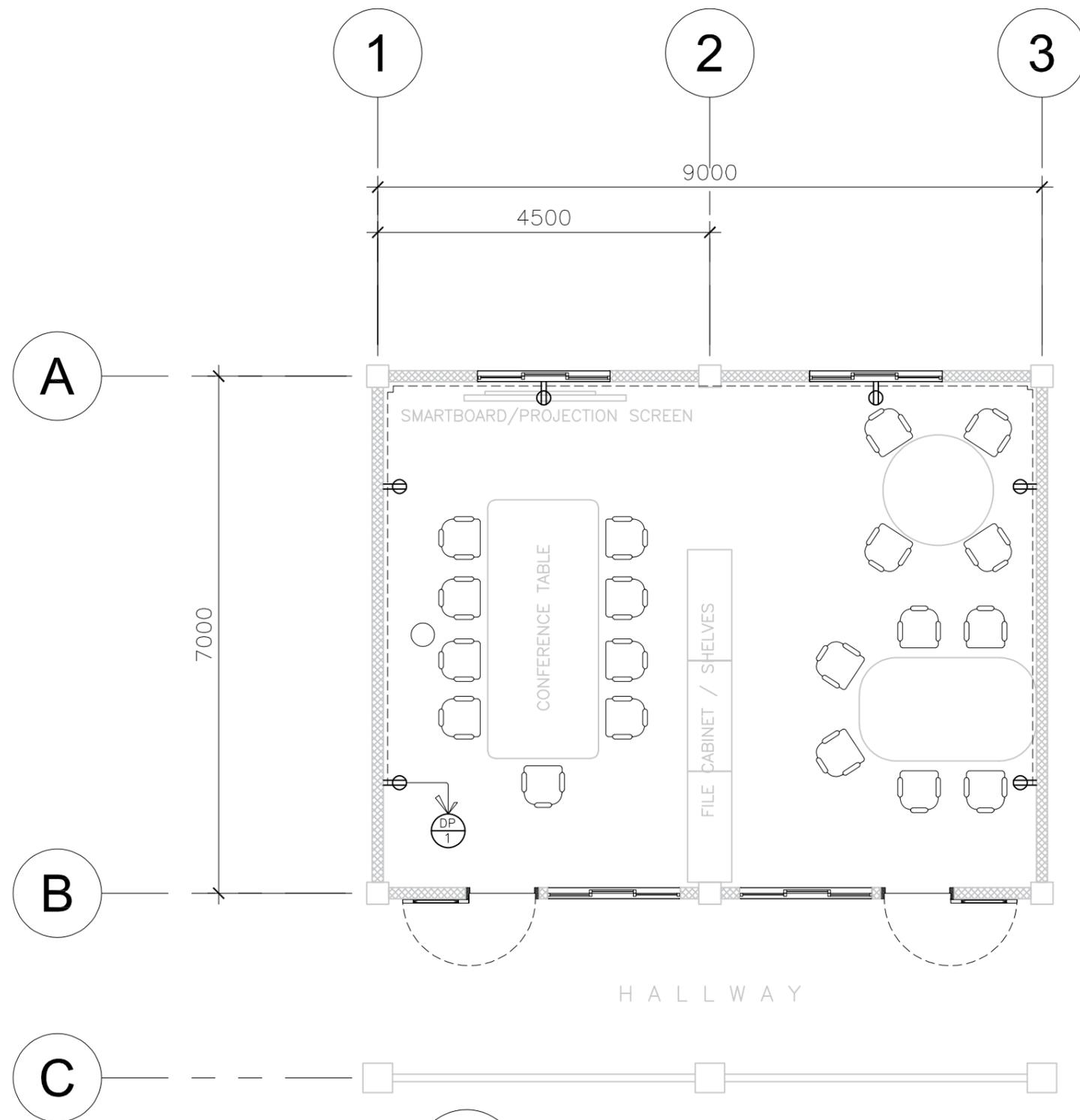


3 SCHEDULE OF LOAD E-1

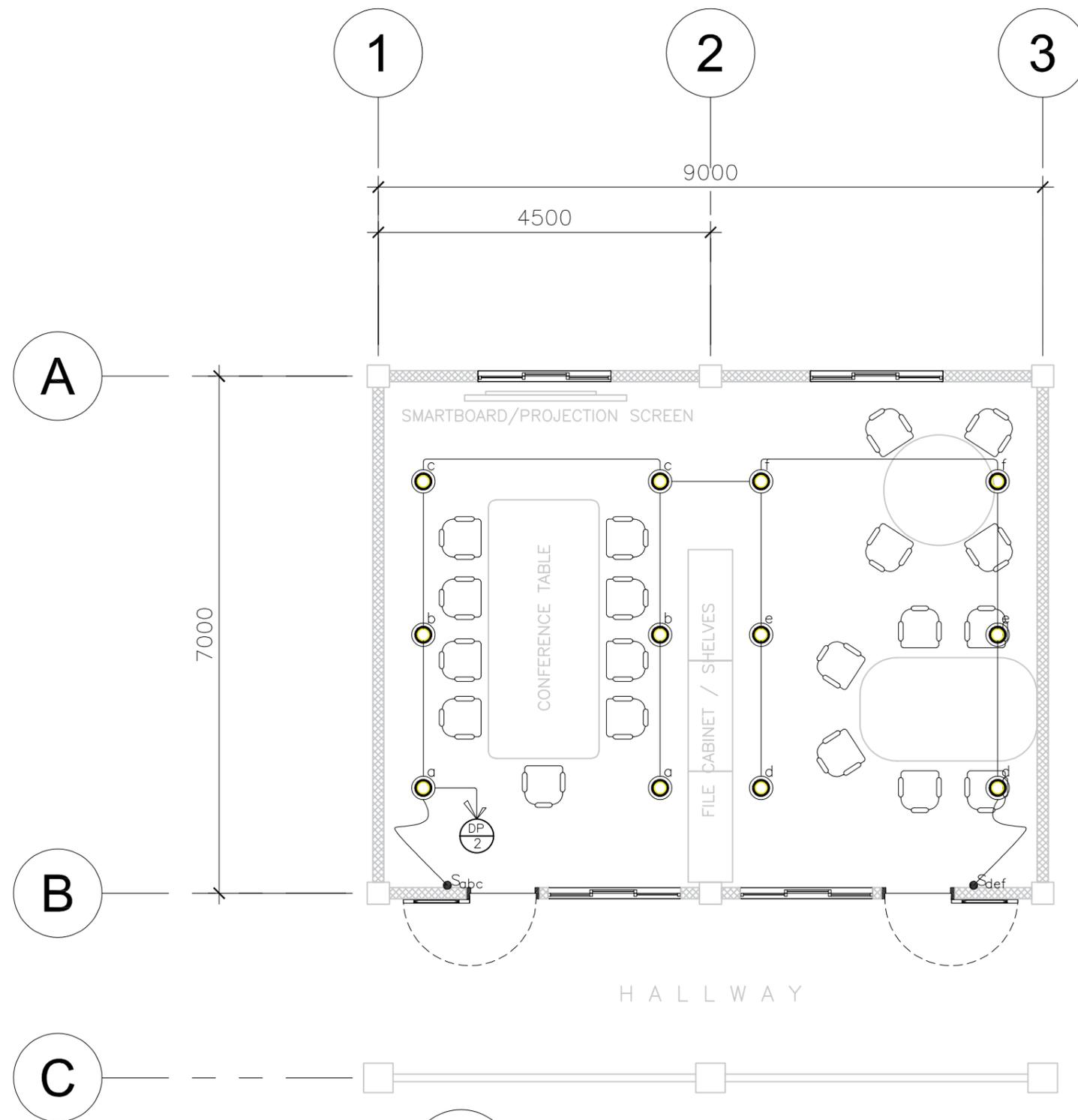
NAME OF PANEL		DP		SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE			
PANEL LOCATION		GROUND FLOOR		DP				X	5.5 mm ²	R,B	AT	30	A	
ENCLOSURE TYPE		NEMA 1						G	3.5 mm ²	GREEN	AF	50	A	
SYSTEM		230 V, 1PH, 60HZ						TYPE	THHN	P	2	P		
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE			CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE	
1	CONVENIENCE OUTLET	1080	230	4.70	AB	BC	CD	3Ø	AT	AF	P	X	G	
2	LIGHTING OUTLET ORBIT FAN	600	230	2.61					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mmØ PVC
TOTAL		1680		7.30										
FOR FEEDER CURRENT												FOR MAIN FEEDER SIZE		
3PH + 1PH LOAD		=	7.30	A								THHN		
25 % CONTINUOUS LOAD		=	0.00	A								X	G	CONDUIT
HIGHEST CURRENT MOTOR		=	0.00	A								2- 5.5 mm ²	1- 3.5 mm ²	20 mmØ RSC
DEMAND FACTOR		=	80%									FOR MAIN BREAKER SIZE		
TOTAL LOAD CURRENT		=	5.84	A								AT	30	
										AF	50			
										P	2			

LEGEND

SYMBOL	DESCRIPTION
S _a	ONE GANG DEVICE SWITCH
S _b	TWO GANG DEVICE SWITCH
SF	FAN CONTROL SWITCH
⊕	ORBIT FAN OUTLET
---	RACEWAY CONDUIT CONCEALED IN CEILING
---	RACEWAY CONDUIT CONCEALED UNDER FLOOR
⊕	PANELBOARD, MARKED AS "MDP/DPA/DPB"
⊕	CKT. BREAKER, RATING AS INDICATED
⊕	DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
⊕	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
⊕	CIRCUIT HOMERUN
⊕	SERVICE METER
⊕	SERVICE ENTRANCE



1
E-2 POWER LAYOUT
7.0 X 9.0 MTS.



2
E-2
LIGHTING LAYOUT
7.0 X 9.0 MTS.

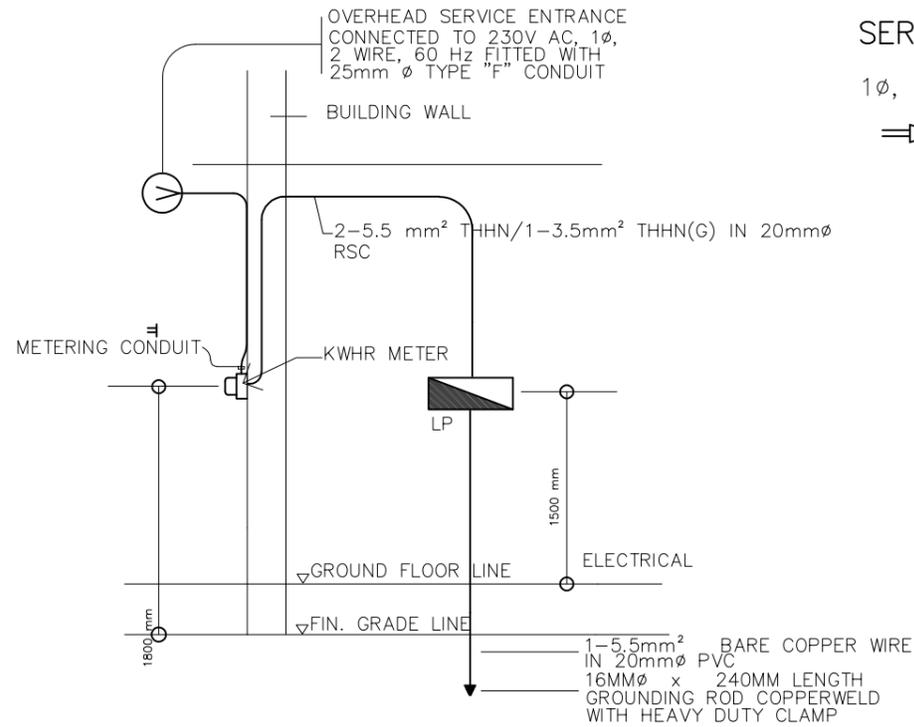
LAMP TO BE USED :

1- 12W DIMMABLE LED LIGHT
 (220V-240V) 50Hz
 APPLICATION:
 - Comfortable light
 - Soft light
 - General light

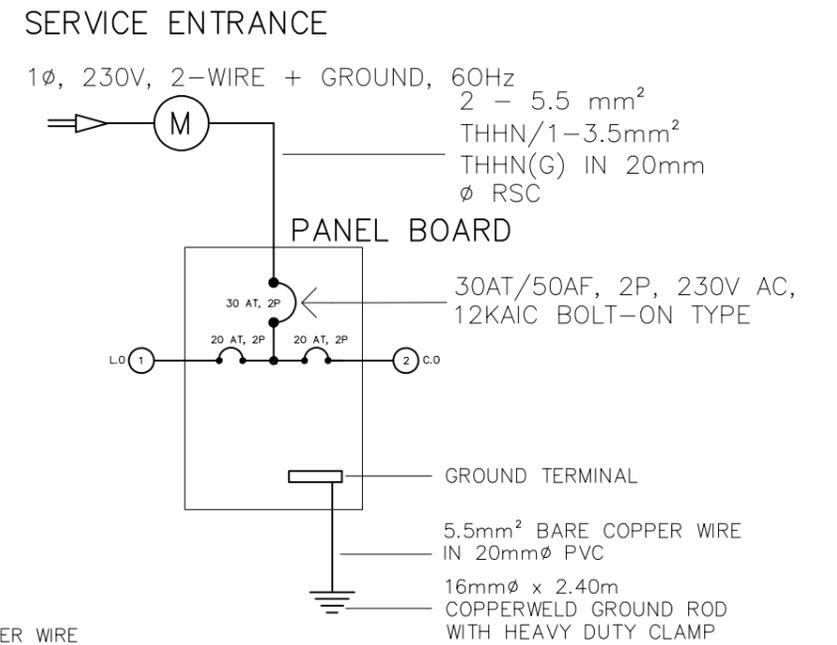
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 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT BRANCH CKT., & AUXILIARY THICK WALL
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 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - PANELBOARD - 1.80 M ABOVE FINISH FLOOR

1 SINGLE LINE DIAGRAM



2 RISER DIAGRAM

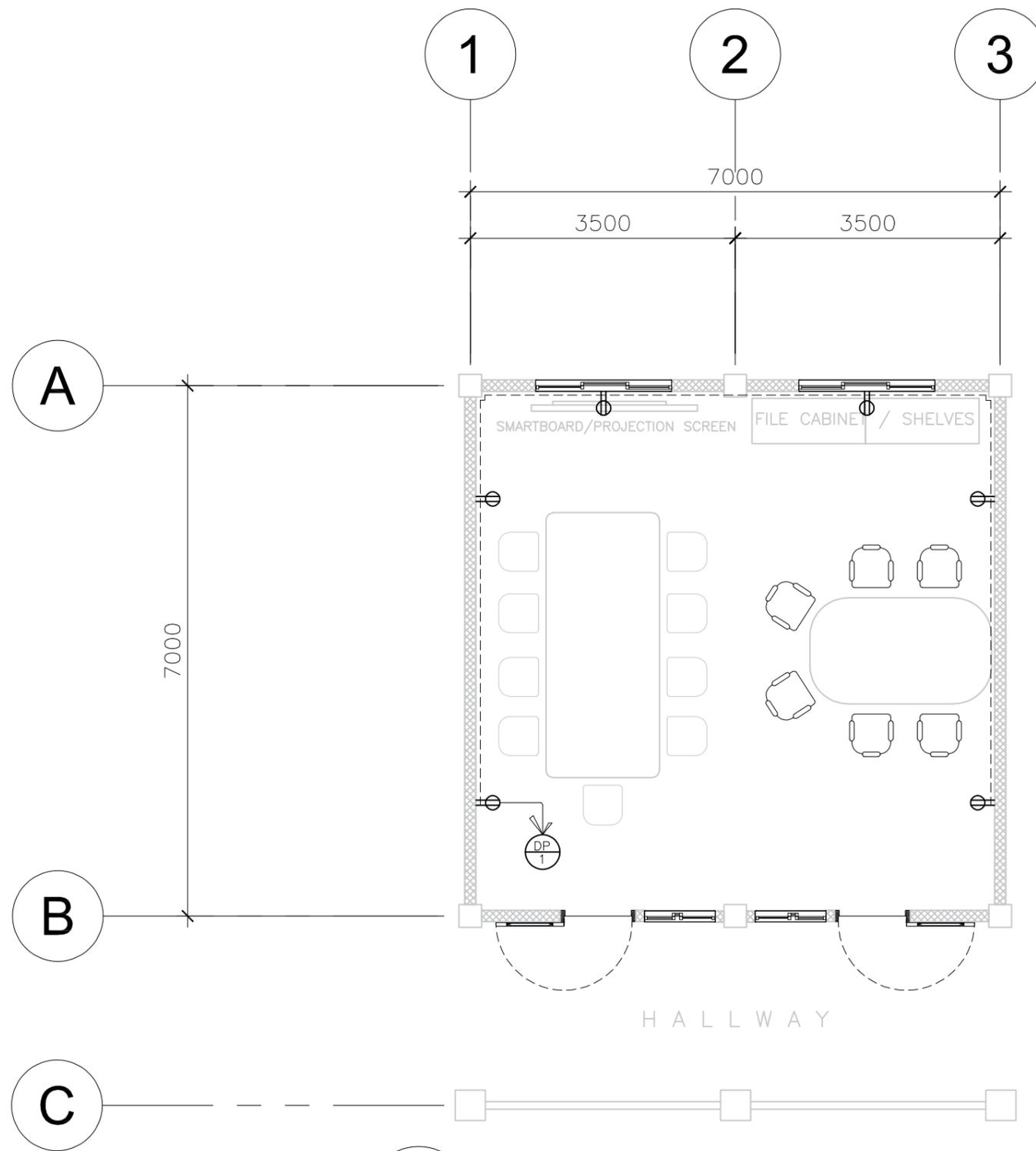


3 SCHEDULE OF LOAD

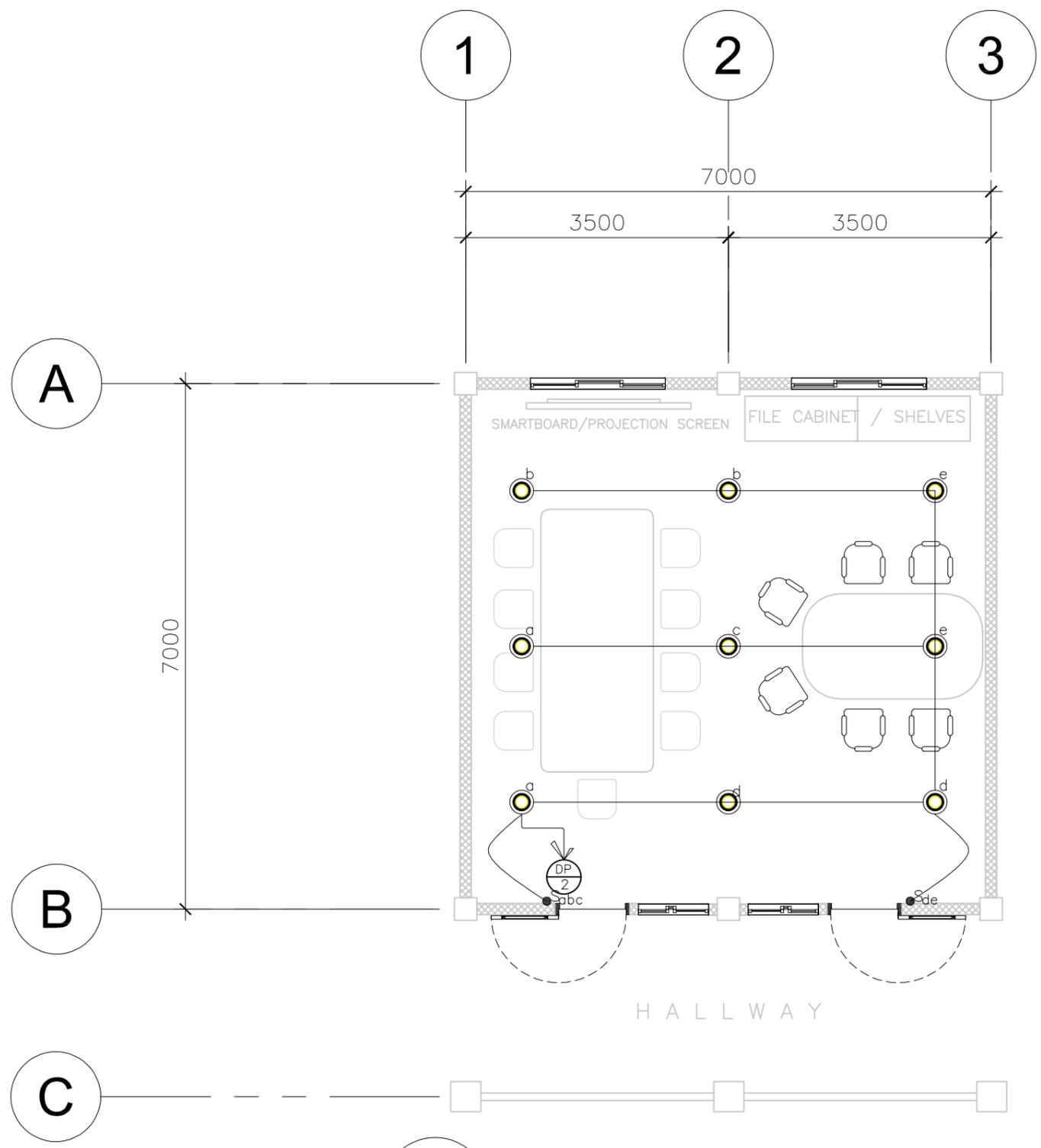
NAME OF PANEL	DP	SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE						
PANEL LOCATION	GROUND FLOOR	DP				X	5.5 mm ²	R,B	AT	30	A				
ENCLOSURE TYPE	NEMA 1					G	3.5 mm ²	GREEN	AF	50	A				
SYSTEM	230 V, 1PH, 60HZ					TYPE	THHN	P	2	P					
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE				CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE	
1	CONVENIENCE OUTLET	1080	230	4.70	AB	BC	CD	3 ϕ	AT	AF	P	X	G		
2	LIGHTING OUTLET ORBIT FAN	450	230	1.94					20	50	2	2-	3.5 mm ²	1- 3.5 mm ²	20 mm ϕ PVC
TOTAL		1530		6.65											
FOR FEEDER CURRENT												FOR MAIN FEEDER SIZE			
3PH + 1PH LOAD		=	6.65	A								THHN		CONDUIT	
25 % CONTINUOUS LOAD		=	0.00	A								X	G		
HIGHEST CURRENT MOTOR		=	0.00	A								2-	5.5 mm ²	1- 3.5 mm ²	20 mm ϕ RSC
DEMAND FACTOR		=	80%												
TOTAL LOAD CURRENT		=	5.32	A											
FOR MAIN BREAKER SIZE															
												AT	30		
												AF	50		
												P	2		

LEGEND

SYMBOL	DESCRIPTION
S _a	ONE GANG DEVICE SWITCH
S _{ab}	TWO GANG DEVICE SWITCH
SF	FAN CONTROL SWITCH
(Symbol)	ORBIT FAN OUTLET
(Symbol)	RACEWAY CONDUIT CONCEALED IN CEILING
(Symbol)	RACEWAY CONDUIT CONCEALED UNDER FLOOR
(Symbol)	PANELBOARD, MARKED AS "MDP/DPA/DPB"
(Symbol)	CKT. BREAKER, RATING AS INDICATED
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(Symbol)	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
(Symbol)	CIRCUIT HOMERUN
(Symbol)	SERVICE METER
(Symbol)	SERVICE ENTRANCE



1
E-2
POWER LAYOUT
7.0 X 7.0 MTS.

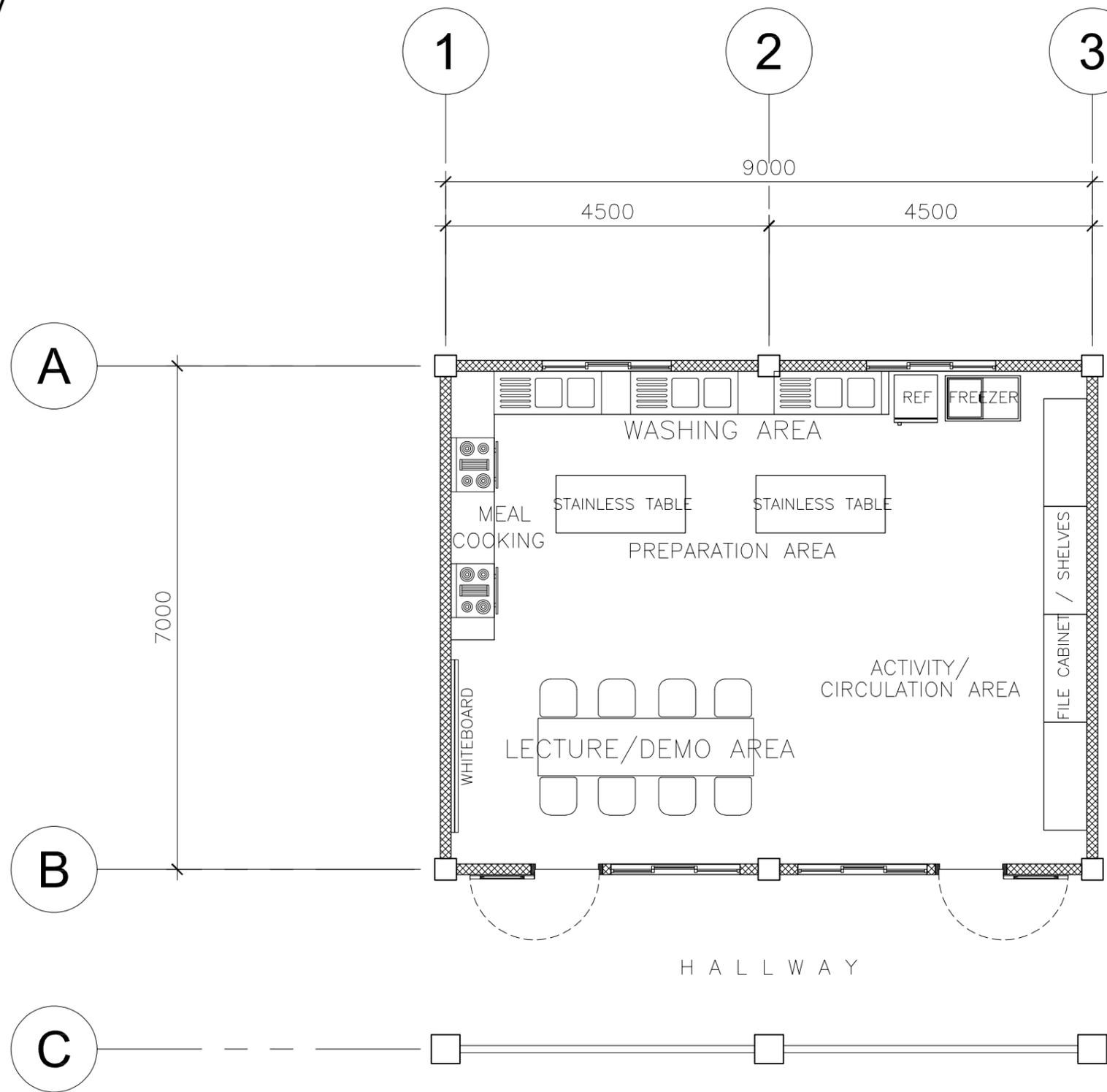


2 LIGHTING LAYOUT
E-2 7.0 X 9.0 MTS.

LAMP TO BE USED :

 1- 12W DIMMABLE LED LIGHT (220V-240V)
50Hz
APPLICATION:
- Comfortable light
- Soft light
- General light

The Bread and Pastry Production workshop must be of concrete structure.

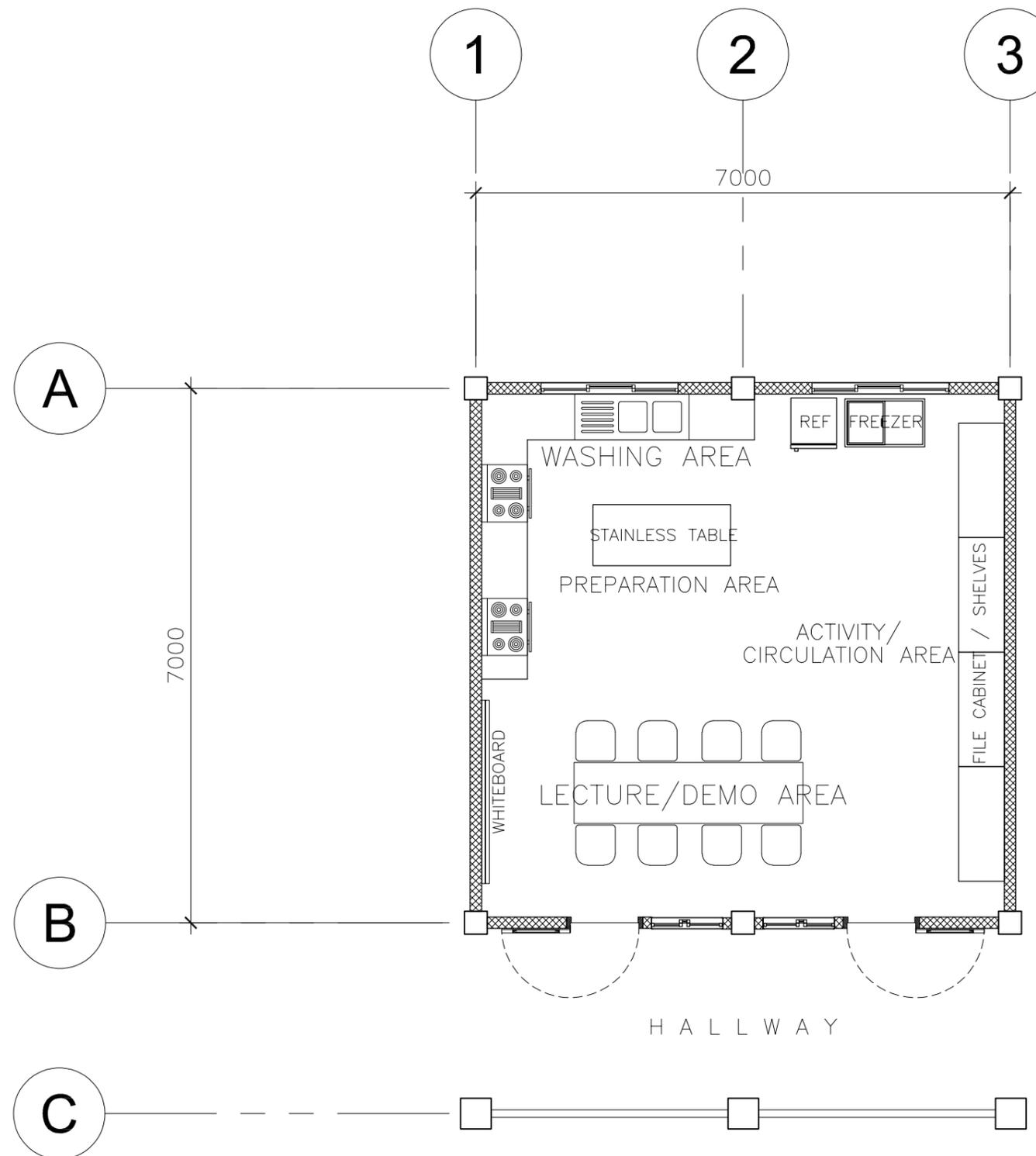


FLOOR LAYOUT
7.0 X 9.0 MTS.

BASIC FEATURES

1. Lecture/Demo Area
 - 1 regular classroom (7.0 x 9.0 mts.)
 - Student/trainee working space
 - Laboratory
 - Learning Resource Center
 - Facilities/Equipment/Circulation Area
2. Must be concrete structure

The Bread and Pastry Production workshop must be of concrete structure.



FLOOR LAYOUT
7.0 X 7.0 MTS.

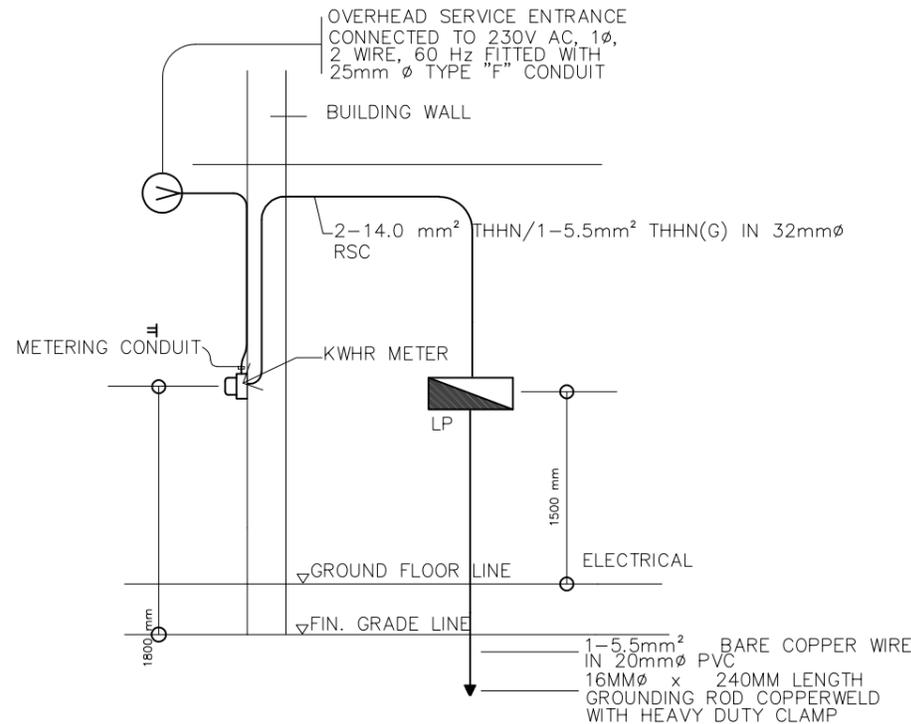
BASIC FEATURES

1. Lecture/Demo Area
 - 1 regular classroom (7.0 x 9.0 mts.)
 - Student/trainee working space
 - Laboratory
 - Learning Resource Center
 - Facilities/Equipment/Circulation Area
2. Must be concrete structure

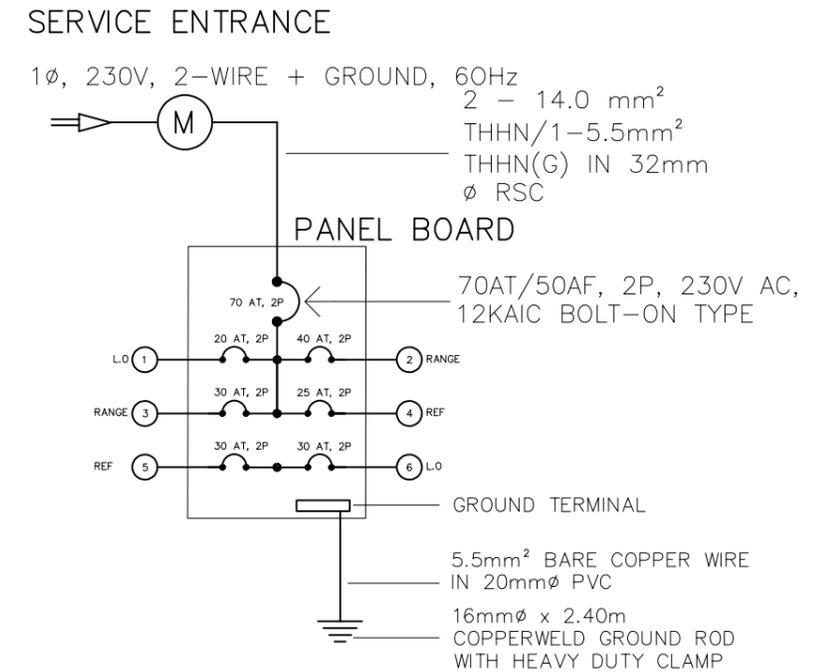
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 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT
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 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - PANELBOARD - 1.80 M ABOVE FINISH FLOOR

1 SINGLE LINE DIAGRAM



2 RISER DIAGRAM



3 SCHEDULE OF LOAD

NAME OF PANEL	DP	SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE					
		GROUND FLOOR				X	14.0 mm ²	R,B	AT	70	A			
PANEL LOCATION	ENCLOSURE TYPE	NEMA 1				G		5.5 mm ²	GREEN	AF	100	A		
SYSTEM	230 V, 1PH, 60HZ				TYPE		THHN	P	2		P			
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE				CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE
					AB	BC	CD	3Ø	AT	AF	P	X	G	
1	CONVENIENCE OUTLET	720	230	3.13					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mmØ PVC
2	RANGE - 8kW	6400.9	230	27.83					40	50	2	2- 5.5 mm ²	1- 3.5 mm ²	20 mmØ PVC
3	RANGE - 3.5kW	3500.6	230	15.22					30	50	2	2- 5.5 mm ²	1- 3.5 mm ²	20 mmØ PVC
4	REFRIGERATOR	2300	230	10.00					25	50	2	2- 5.5 mm ²	1- 3.5 mm ²	20 mmØ PVC
5	REFRIGERATOR	2300	230	10.00					30	50	2	2- 5.5 mm ²	1- 3.5 mm ²	20 mmØ PVC
6	LIGHTING OUTLET ORBIT FAN	420	230	1.83					20	50	2	2- 3.5 mm ²		20 mmØ PVC
TOTAL		15641.5		68.01										

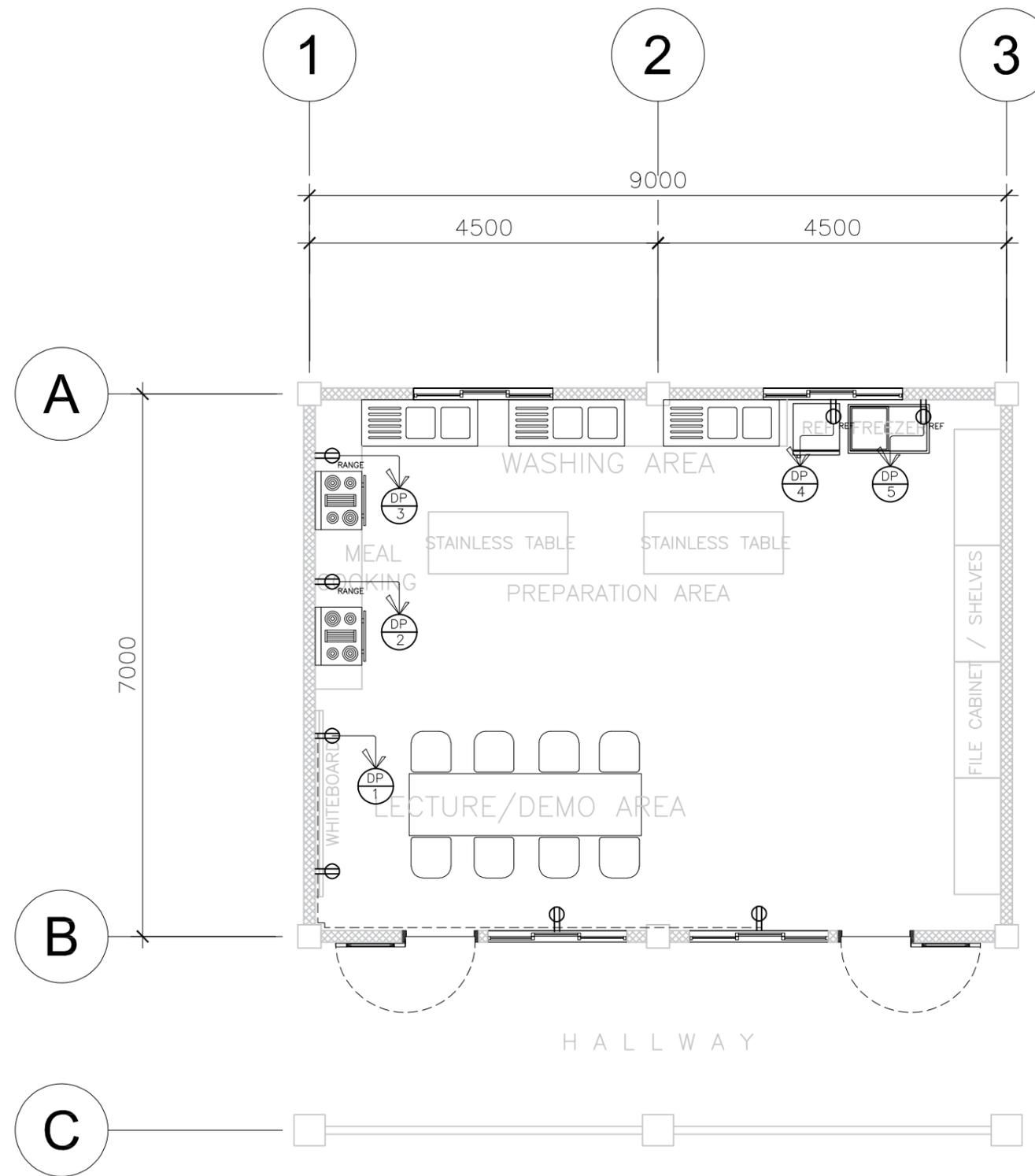
FOR FEEDER CURRENT				FOR MAIN FEEDER SIZE	
3PH + 1PH LOAD	=	68.01	A		
25 % CONTINUOUS LOAD	=	2.50	A		
HIGHEST CURRENT MOTOR	=	10.00	A		
DEMAND FACTOR	=	80%			
TOTAL LOAD CURRENT	=	56.41	A		

FOR MAIN FEEDER SIZE		
THHN		
X	G	CONDUIT
2- 14.0 mm ²	1- 5.5 mm ²	25 mmØ RSC

FOR MAIN BREAKER SIZE	
AT	70
AF	100
P	2

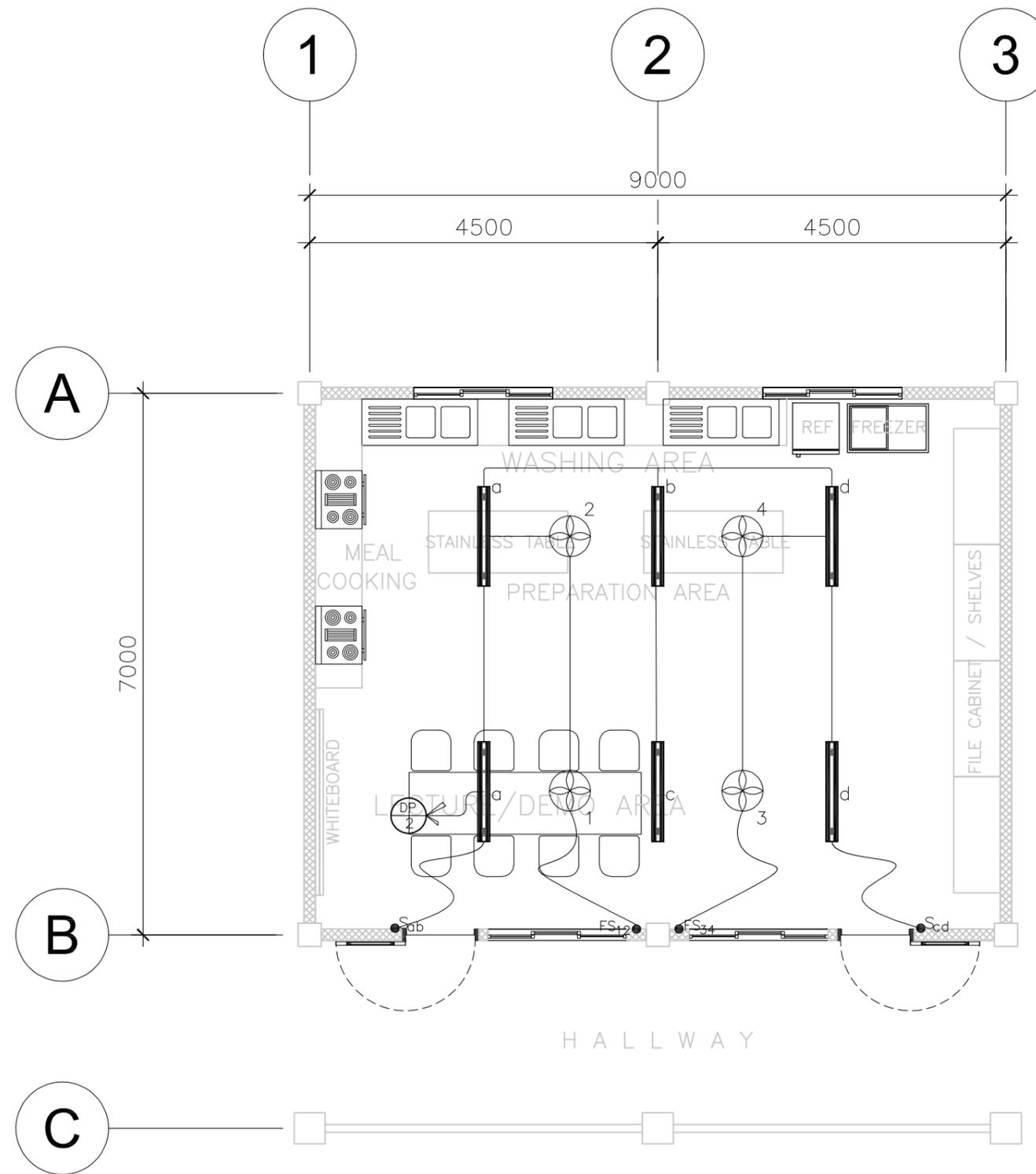
LEGEND

SYMBOL	DESCRIPTION
S _a	ONE GANG DEVICE SWITCH
S _{ab}	TWO GANG DEVICE SWITCH
S _F	FAN CONTROL SWITCH
⊕	ORBIT FAN OUTLET
---	RACEWAY CONDUIT CONCEALED IN CEILING
---	RACEWAY CONDUIT CONCEALED UNDER FLOOR
⊕	PANELBOARD, MARKED AS "MDP/DPA/DPB"
⊕	CKT. BREAKER, RATING AS INDICATED
⊕	DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
⊕	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
⊕	CIRCUIT HOMERUN
⊕	SERVICE METER
⊕	SERVICE ENTRANCE



NOTE:
Ground Fault Circuit Interrupter (GFCI) Shall be
Install In any wet or damp location. This includes
bathrooms, kitchen,basement or outdoors any
where the PEC ALLOWED.

1
E-2
POWER LAYOUT
7.0 X 9.0 MTS.



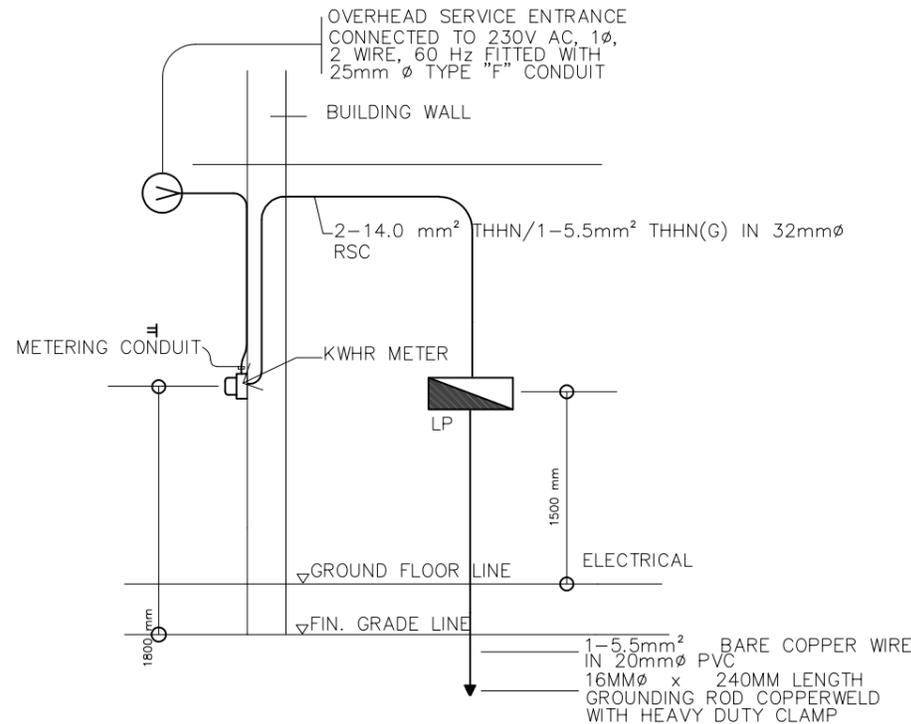
LAMP TO BE USED :
 2 x 36W T5 LED LIGHTS with mirror reflector (220v-240v,50Hz) Box Type Fixture

2
E-2 LIGHTING LAYOUT
 7.0 X 9.0 MTS.

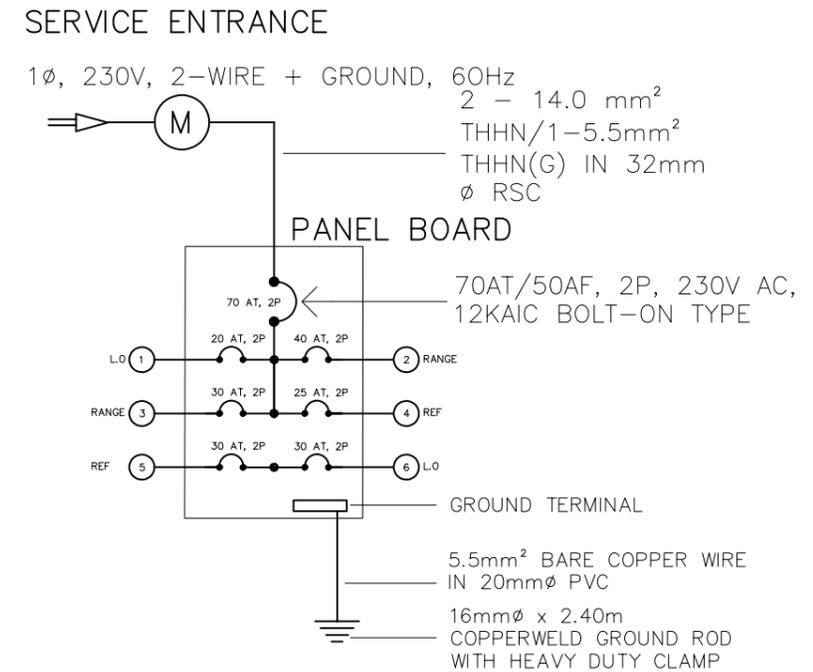
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1 SINGLE LINE DIAGRAM



2 RISER DIAGRAM

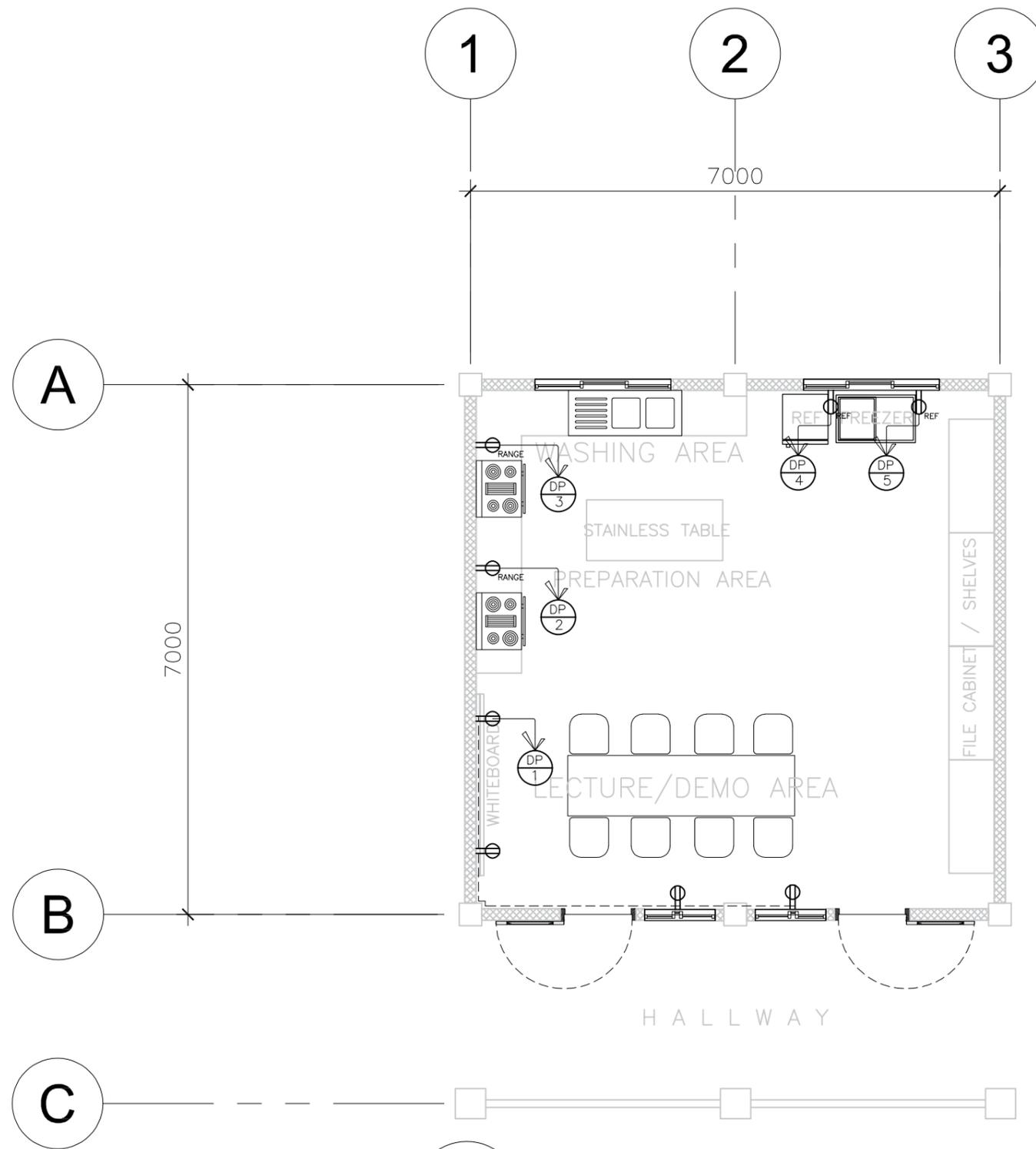


3 SCHEDULE OF LOAD

NAME OF PANEL	DP		SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE				
	PANEL LOCATION	GROUND FLOOR	X	14.0 mm ²	R,B	AT	70	A						
ENCLOSURE TYPE	NEMA 1	DP				G	5.5 mm ²	GREEN	AF	100	A			
SYSTEM	230 V, 1PH, 60HZ					TYPE	THHN	P	2	P				
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE			CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE	
1	CONVENIENCE OUTLET	720	230	3.13	AB	BC	CD	3 ϕ	AT	AF	P	X	G	
2	RANGE - 8kW	6400.9	230	27.83					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mm ϕ PVC
3	RANGE - 3.5kW	3500.6	230	15.22					40	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mm ϕ PVC
4	REFRIGERATOR	2300	230	10.00					30	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mm ϕ PVC
5	REFRIGERATOR	2760	230	12.00					25	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mm ϕ PVC
6	LIGHTING OUTLET ORBIT FAN	340	230	1.48					30	50	2	2- 3.5 mm ²		20 mm ϕ PVC
TOTAL		16021.5		69.66										
FOR FEEDER CURRENT												FOR MAIN FEEDER SIZE		
3PH + 1PH LOAD		=	69.66	A								THHN		CONDUIT
25 % CONTINUOUS LOAD		=	3.00	A								X	G	
HIGHEST CURRENT MOTOR		=	12.00	A								2- 14.0 mm ²	1- 5.5 mm ²	32 mm ϕ RSC
DEMAND FACTOR		=	80%									FOR MAIN BREAKER SIZE		
TOTAL LOAD CURRENT		=	58.13	A								AT	70	
												AF	100	
												P	2	

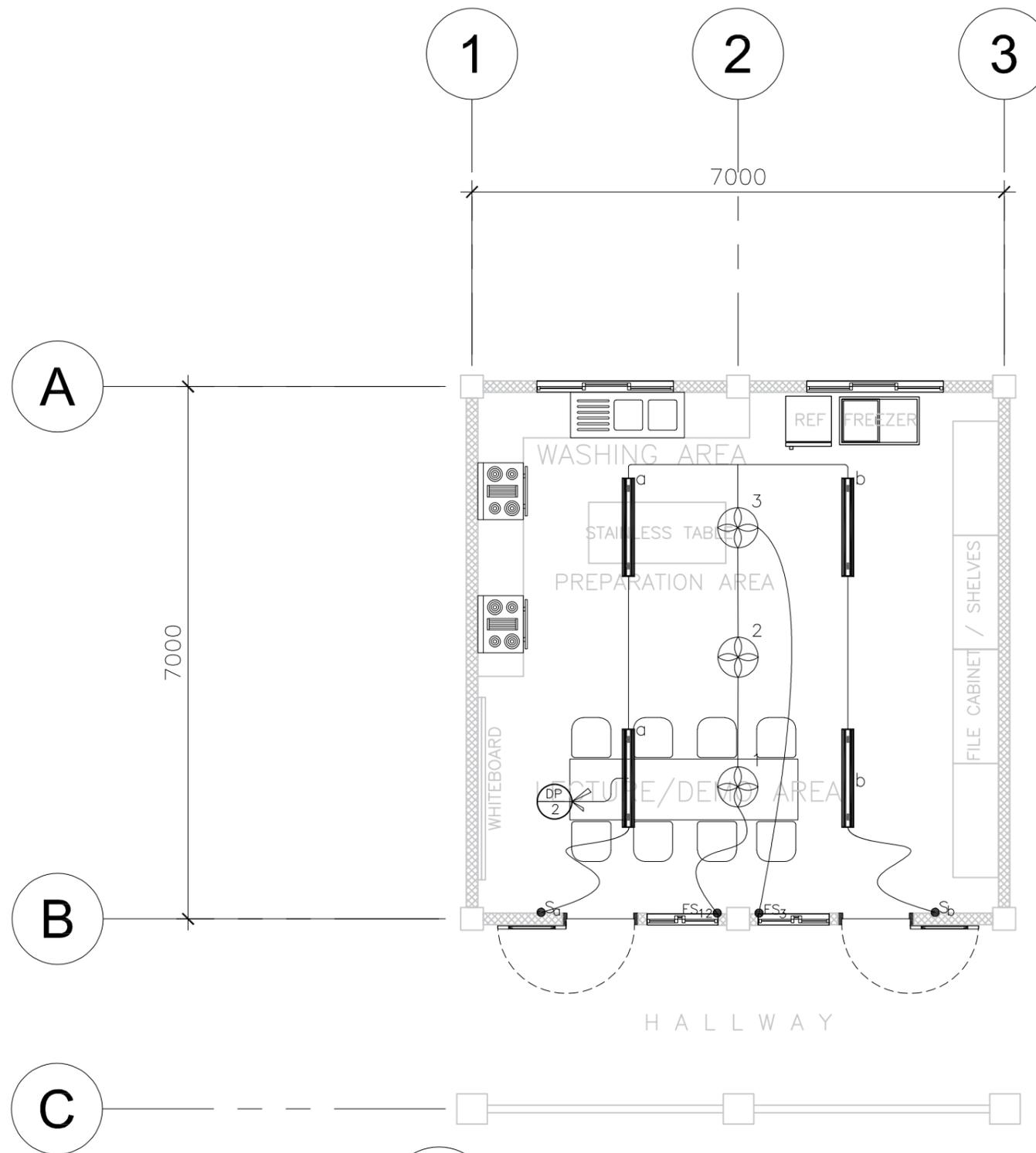
LEGEND

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S _{ab}	TWO GANG DEVICE SWITCH
S _F	FAN CONTROL SWITCH
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(Symbol)	PANELBOARD, MARKED AS "MDP/DPA/DPB"
(Symbol)	CKT. BREAKER, RATING AS INDICATED
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(Symbol)	CIRCUIT HOMERUN
(Symbol)	SERVICE METER
(Symbol)	SERVICE ENTRANCE



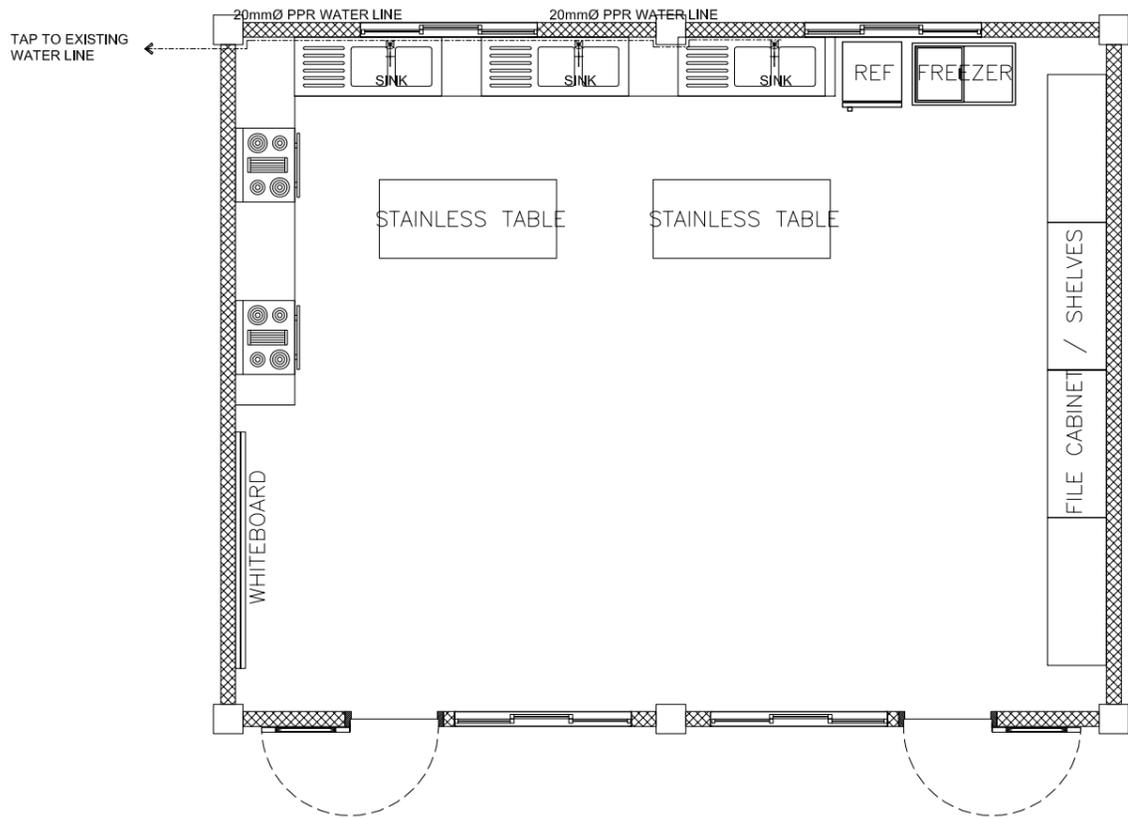
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 Ground Fault Circuit Interrupter (GFCI) Shall be
 install in any wet or damp location. This includes
 bathrooms, kitchen, basement or outdoors any
 where the PEC ALLOWED.

1
 E-2 POWER LAYOUT
 7.0 X 9.0 MTS.



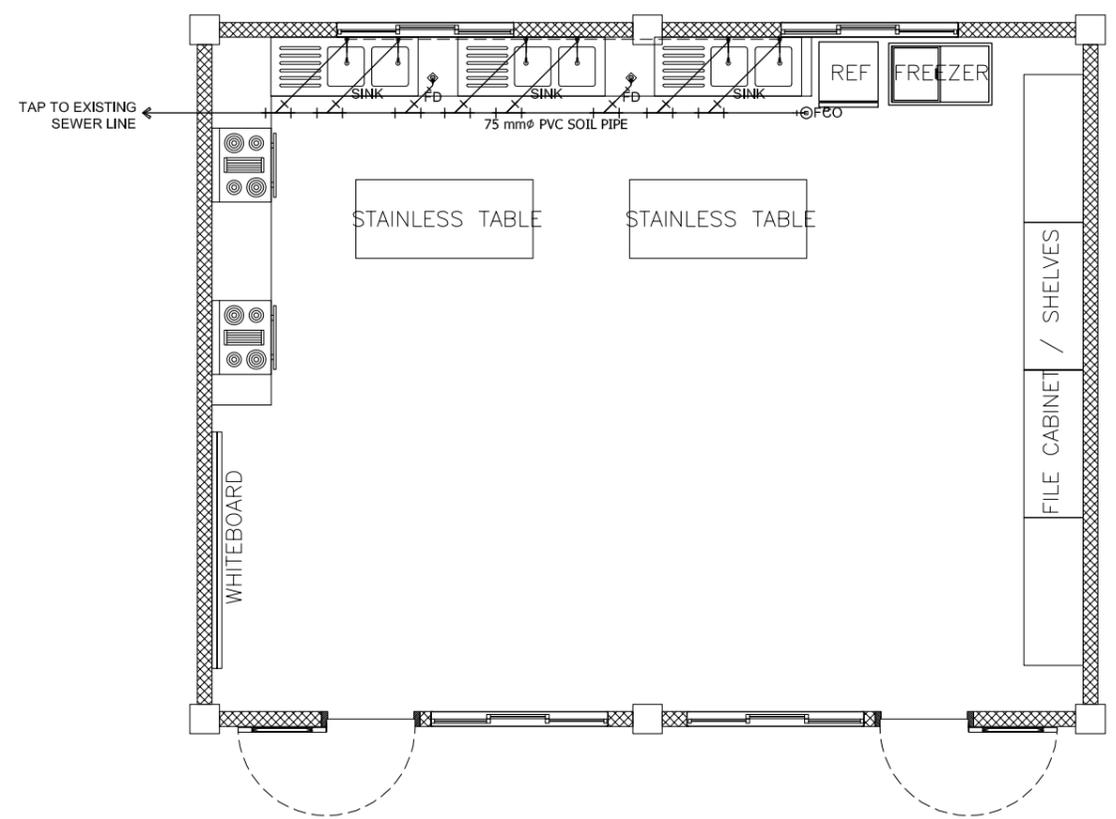
2
E-2 LIGHTING LAYOUT
7.0 X 9.0 MTS.

LAMP TO BE USED :
 2 x 36W T5 LED LIGHTS with mirror reflector (220v-240v,50Hz) Box Type Fixture



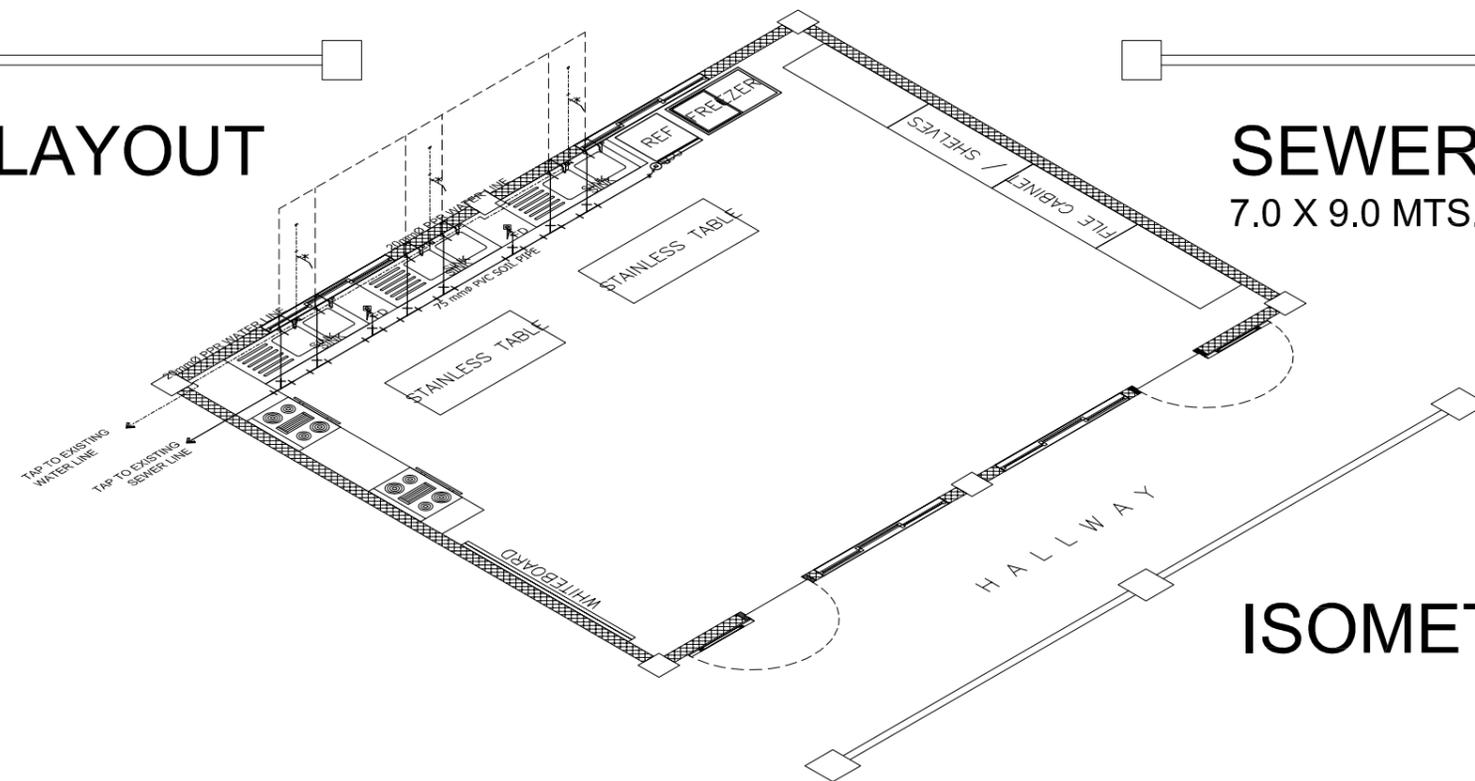
HALLWAY

WATER LINE LAYOUT
7.0 X 9.0 MTS.

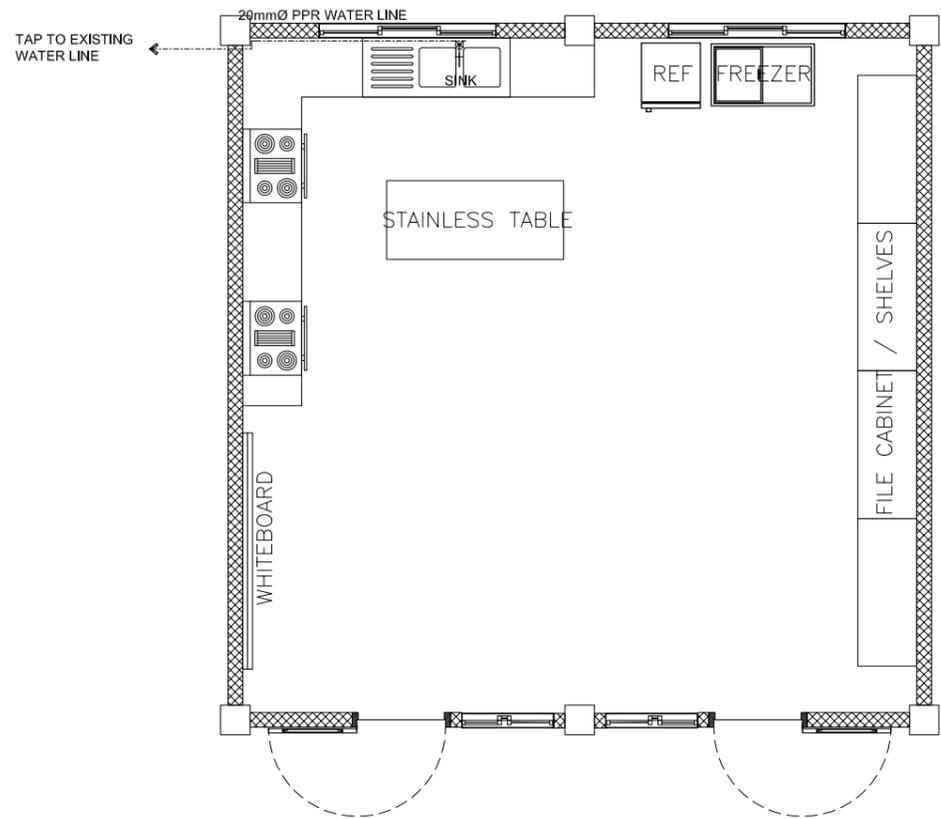


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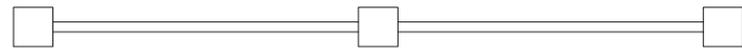
SEWER LINE LAYOUT
7.0 X 9.0 MTS.



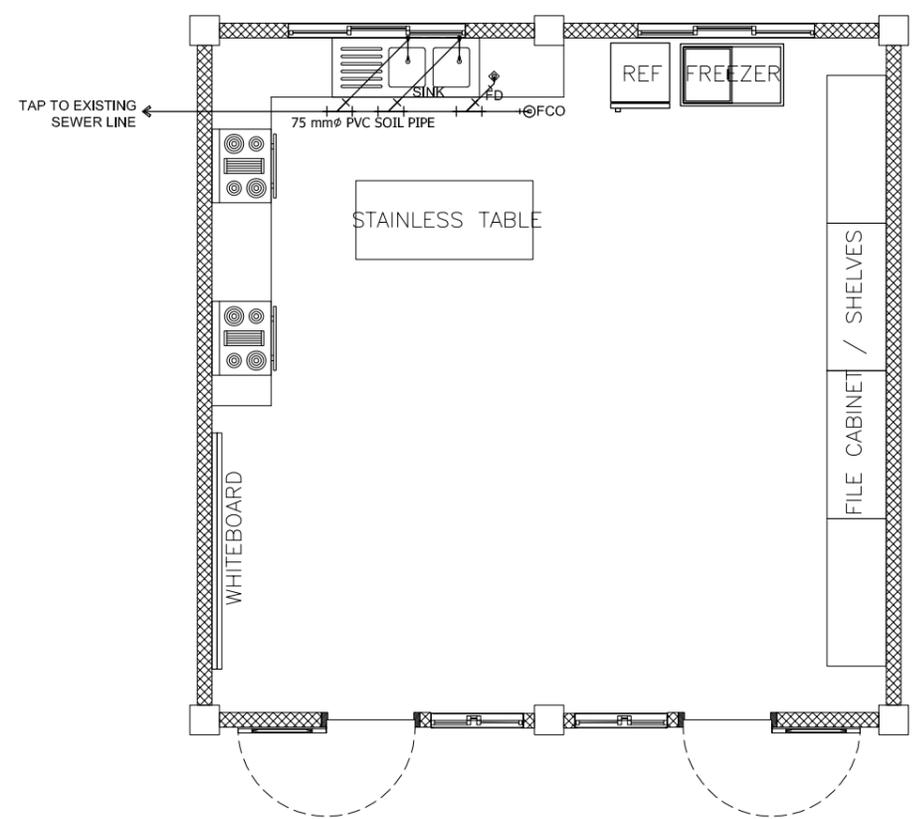
ISOMETRIC VIEW



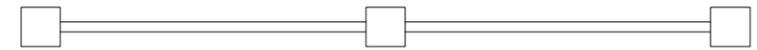
HALLWAY



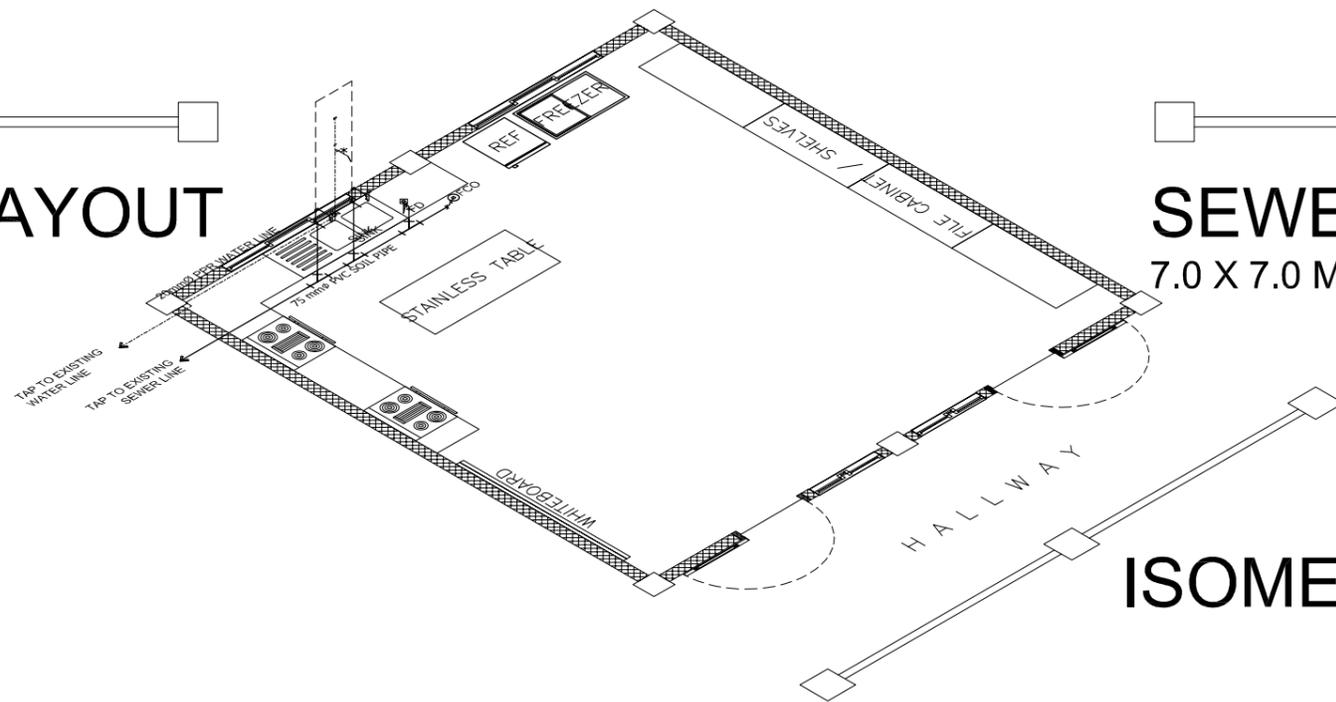
WATER LINE LAYOUT
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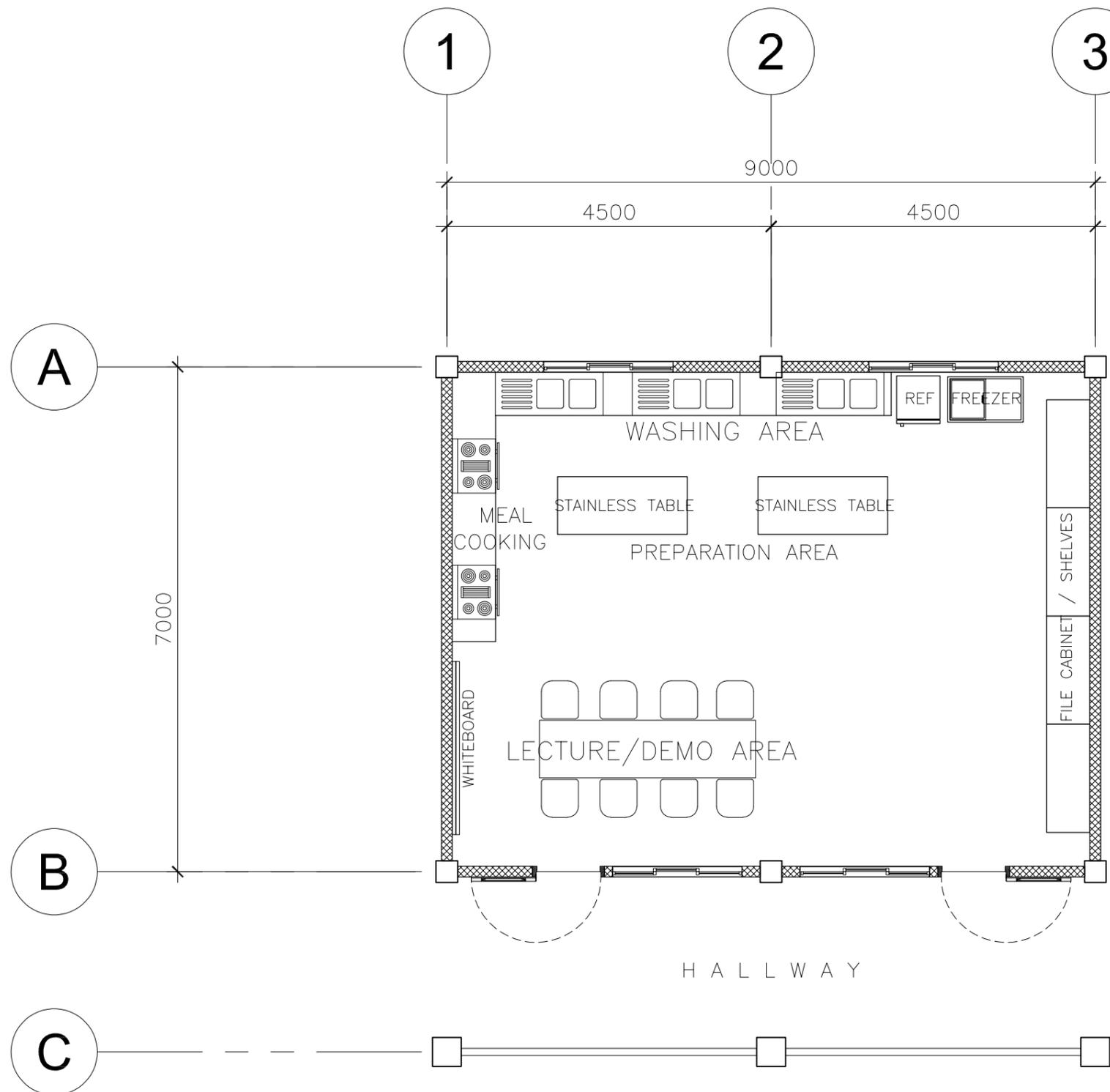
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SEWER LINE LAYOUT
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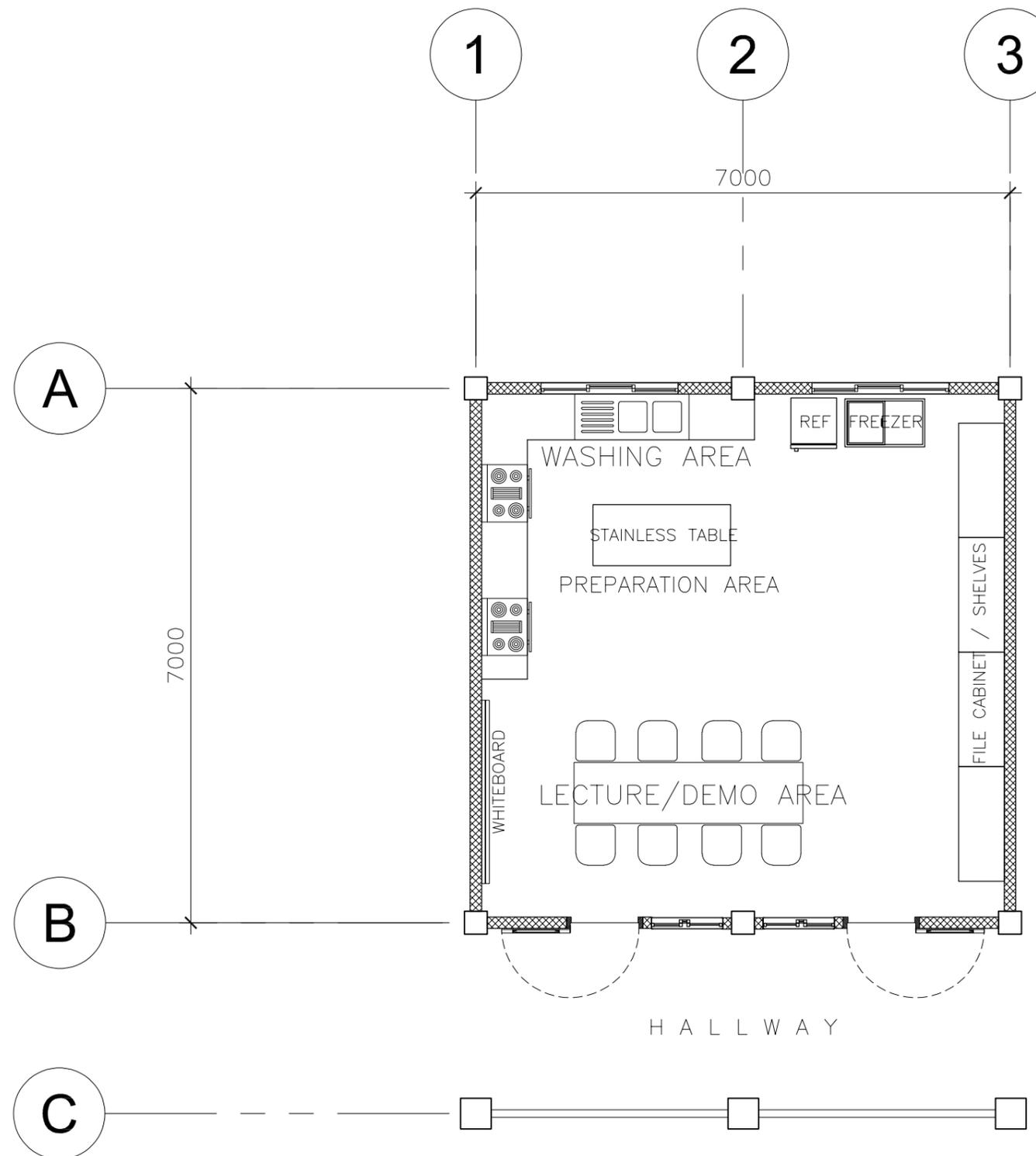
ISOMETRIC VIEW



FLOOR LAYOUT
7.0 X 9.0 MTS.

BASIC FEATURES

1. Lecture/Demo Area
 - 1 Regular classroom (7.0 x 9.0 mts.)
 - Students/trainee working space
 - Laboratory
 - learning Resource Center
 - Facilities/Equipment/Circulation Area
2. Provision for
 - TV/Videoplayer/LCD
 - Stainless steel working table
 - Fire Extinguisher
 - Refrigerator/Freezer
 - Microwave
 - Gas Burner



FLOOR LAYOUT
7.0 X 7.0 MTS.

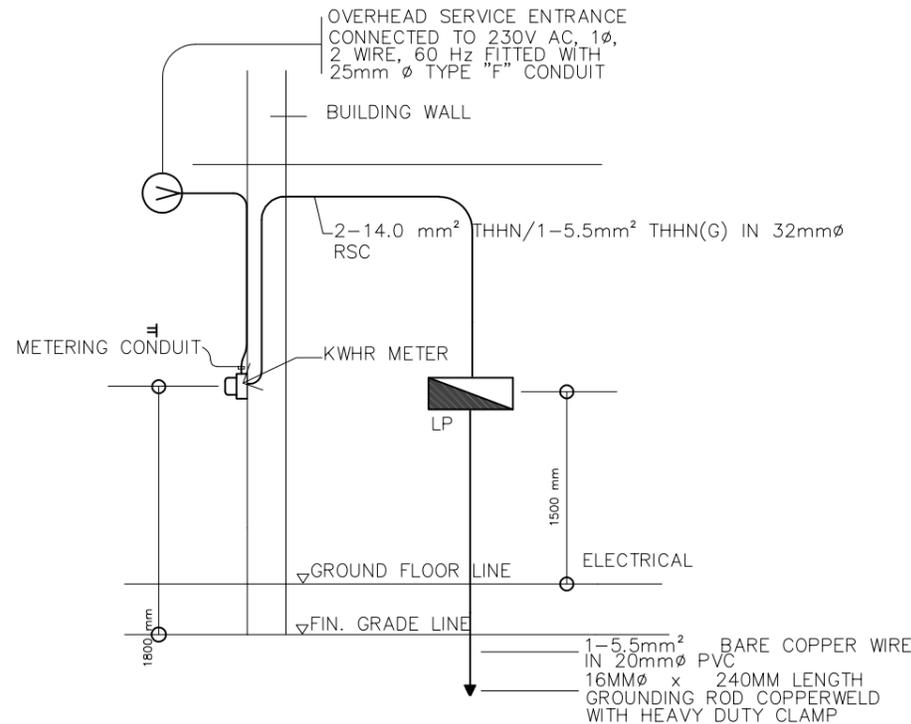
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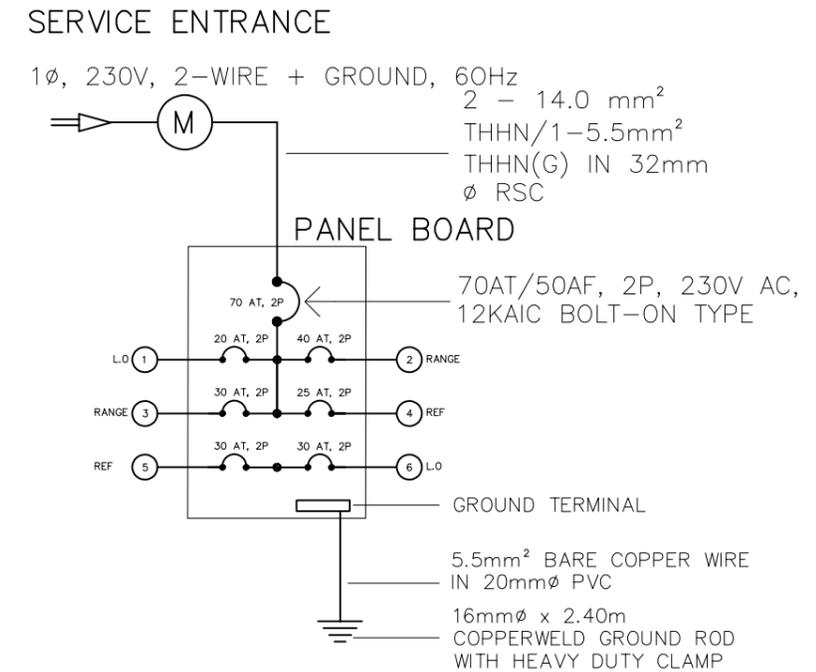
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- THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE + GROUND 230 V AC, 60 Hz.
- WIRING METHOD SHALL BE AS FOLLOWS :
 - FEEDERS AND RISERS - RIGID STEEL CONDUIT
 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT
 - BRANCH CKT., & AUXILIARY THICK WALL
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 20mm Ø TRADE/NOMINAL SIZE.
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- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
 - LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - PANELBOARD - 1.80 M ABOVE FINISH FLOOR

1 SINGLE LINE DIAGRAM



2 RISER DIAGRAM



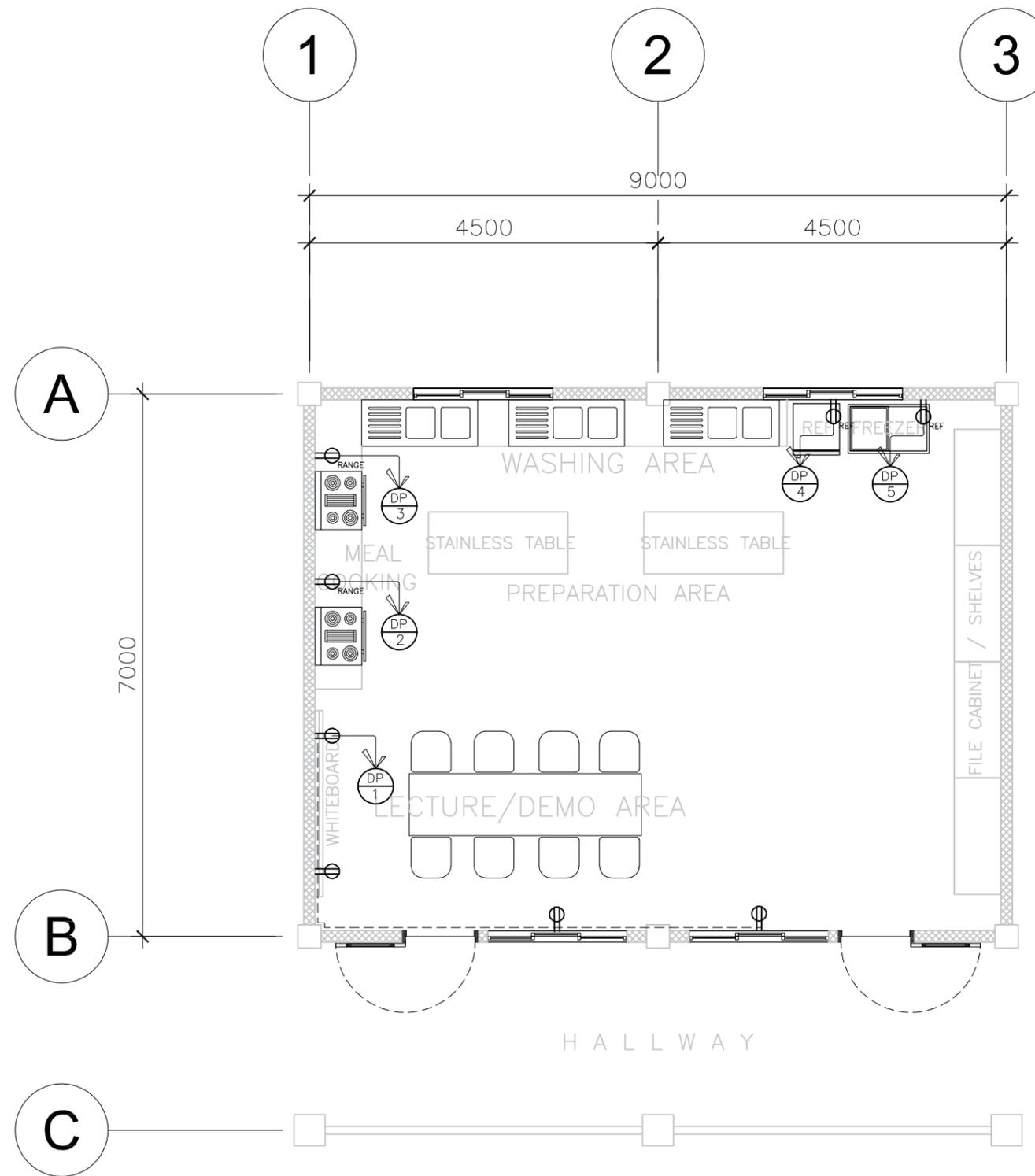
3 SCHEDULE OF LOAD

NAME OF PANEL	DP	SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE					
		GROUND FLOOR				X	14.0 mm ²	R,B	AT	70	A			
PANEL LOCATION	ENCLOSURE TYPE	NEMA 1				G	5.5 mm ²	GREEN	AF	100	A			
SYSTEM	230 V, 1PH, 60HZ				TYPE	THHN		P	2	P				
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE				CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE
					AB	BC	CD	3Ø	AT	AF	P	X	G	
1	CONVENIENCE OUTLET	720	230	3.13					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mmØ PVC
2	RANGE - 8kW	6400.9	230	27.83					40	50	2	2- 5.5 mm ²	1- 3.5 mm ²	20 mmØ PVC
3	RANGE - 3.5kW	3500.6	230	15.22					30	50	2	2- 5.5 mm ²	1- 3.5 mm ²	20 mmØ PVC
4	REFRIGERATOR	2300	230	10.00					25	50	2	2- 5.5 mm ²	1- 3.5 mm ²	20 mmØ PVC
5	REFRIGERATOR	2300	230	10.00					30	50	2	2- 5.5 mm ²	1- 3.5 mm ²	20 mmØ PVC
6	LIGHTING OUTLET ORBIT FAN	420	230	1.83					20	50	2	2- 3.5 mm ²		20 mmØ PVC
TOTAL		15641.5		68.01										

FOR FEEDER CURRENT						FOR MAIN FEEDER SIZE												
3PH + 1PH LOAD	=	68.01	A			<table border="1"> <thead> <tr> <th colspan="3">THHN</th> </tr> <tr> <th>X</th> <th>G</th> <th>CONDUIT</th> </tr> </thead> <tbody> <tr> <td>2- 14.0 mm²</td> <td>1- 5.5 mm²</td> <td>25 mmØ RSC</td> </tr> </tbody> </table>				THHN			X	G	CONDUIT	2- 14.0 mm ²	1- 5.5 mm ²	25 mmØ RSC
THHN																		
X	G	CONDUIT																
2- 14.0 mm ²	1- 5.5 mm ²	25 mmØ RSC																
25 % CONTINUOUS LOAD	=	2.50	A															
HIGHEST CURRENT MOTOR	=	10.00	A															
DEMAND FACTOR	=	80%																
TOTAL LOAD CURRENT	=	56.41	A															
						FOR MAIN BREAKER SIZE												
						<table border="1"> <thead> <tr> <th>AT</th> <th>70</th> </tr> </thead> <tbody> <tr> <td>AF</td> <td>100</td> </tr> <tr> <td>P</td> <td>2</td> </tr> </tbody> </table>				AT	70	AF	100	P	2			
AT	70																	
AF	100																	
P	2																	

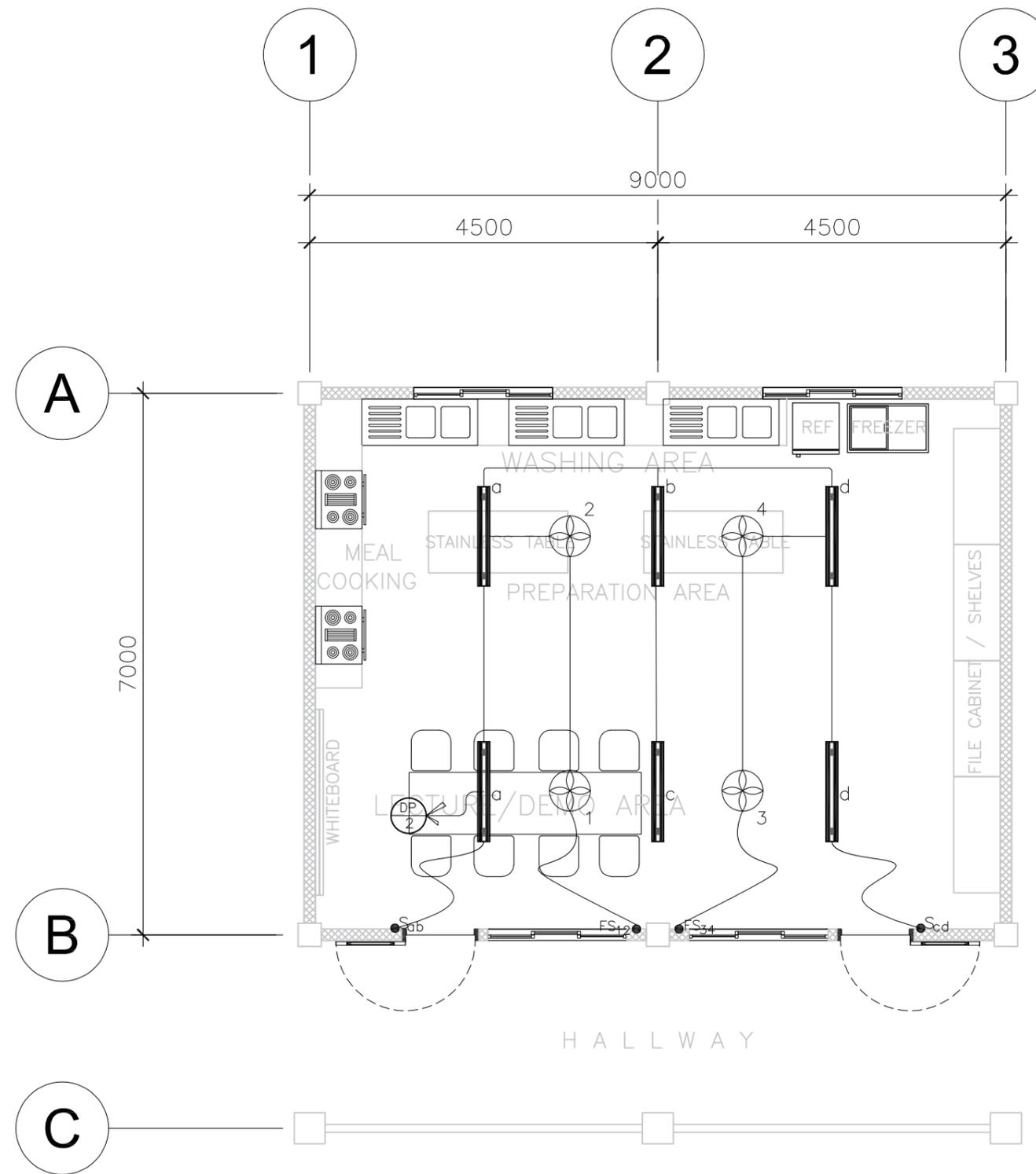
LEGEND

SYMBOL	DESCRIPTION
S _a	ONE GANG DEVICE SWITCH
S _{ab}	TWO GANG DEVICE SWITCH
S _F	FAN CONTROL SWITCH
⊕	ORBIT FAN OUTLET
---	RACEWAY CONDUIT CONCEALED IN CEILING
---	RACEWAY CONDUIT CONCEALED UNDER FLOOR
⊕	PANELBOARD, MARKED AS "MDP/DPA/DPB"
⊕	CKT. BREAKER, RATING AS INDICATED
⊕	DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
⊕	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
⊕	CIRCUIT HOMERUN
⊕	SERVICE METER
⊕	SERVICE ENTRANCE



NOTE:
Use GFCI protection has been required for the located in bathrooms, rooftops, and Counter-top kitchens in commercial/industrial facilities.

1
E-2
POWER LAYOUT
7.0 X 9.0 MTS.



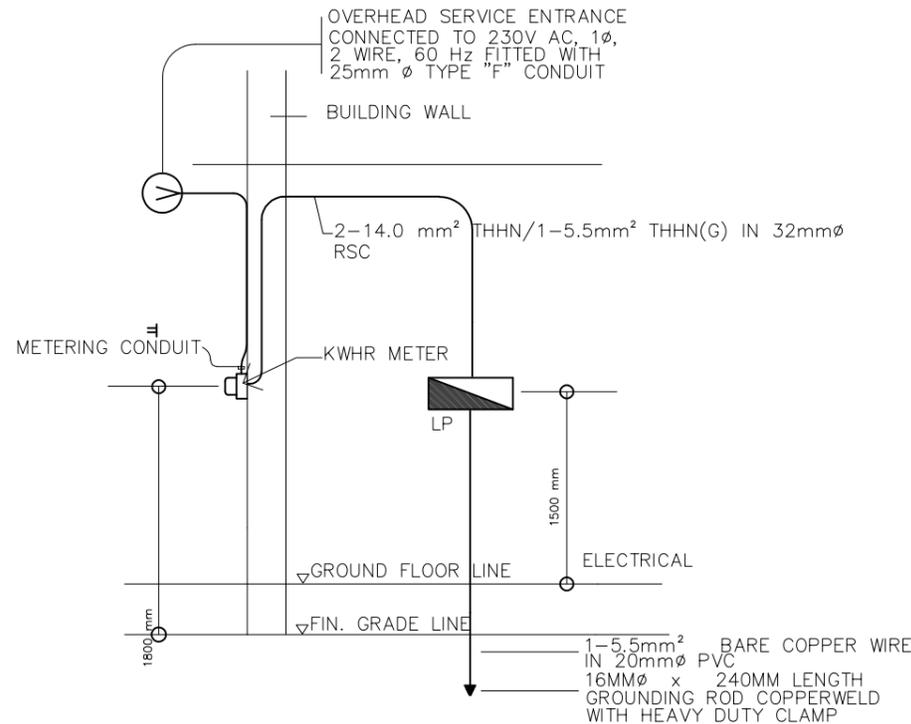
LAMP TO BE USED :
 2 x 36W T5 LED LIGHTS with mirror reflector (220v-240v,50Hz) Box Type Fixture

2
E-2 LIGHTING LAYOUT
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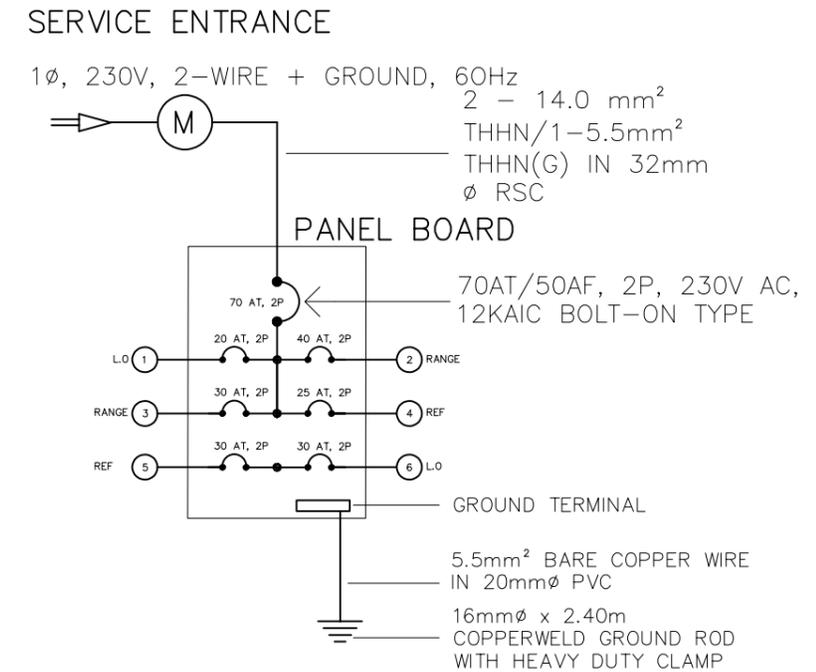
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1 SINGLE LINE DIAGRAM



2 RISER DIAGRAM

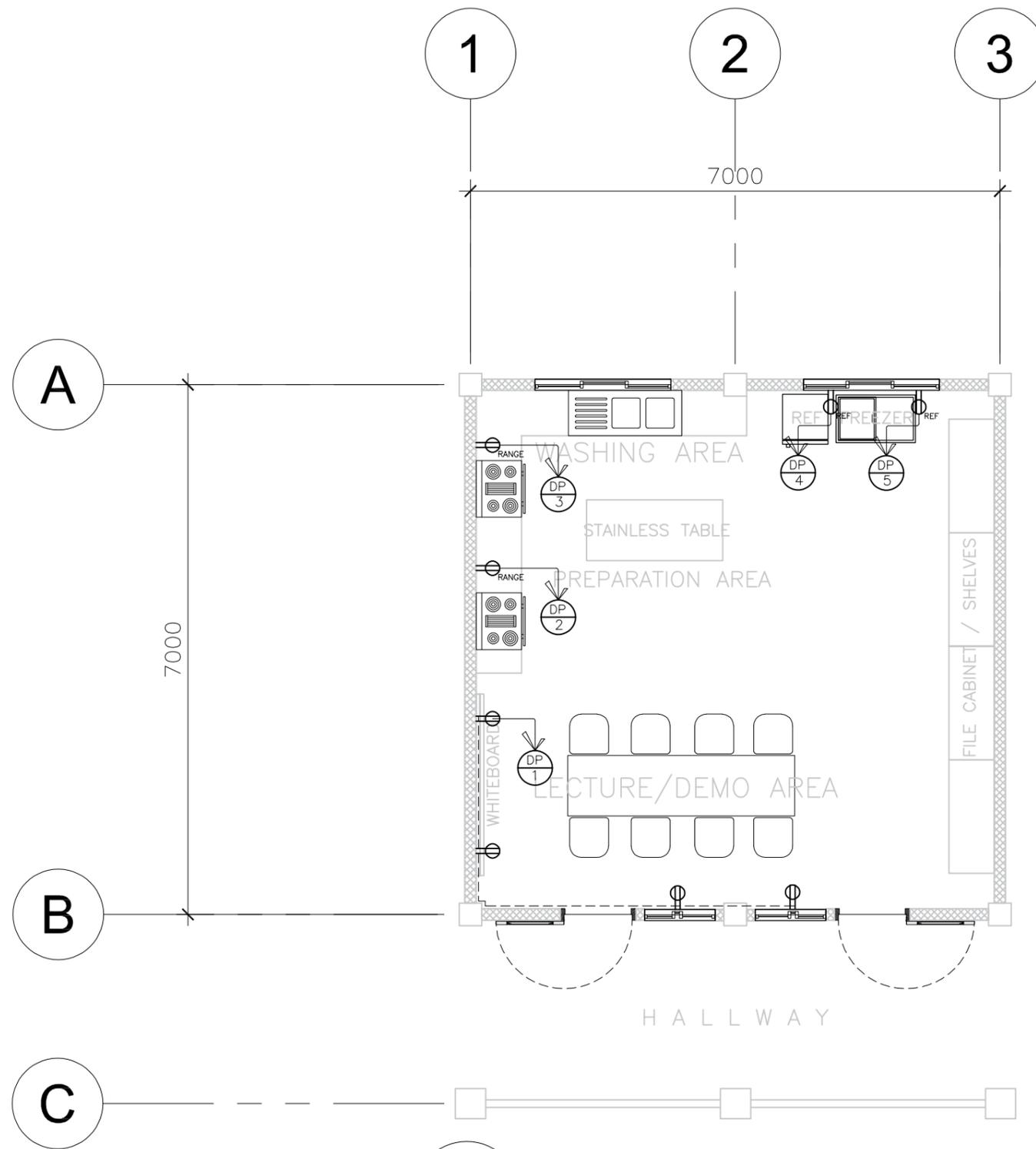


3 SCHEDULE OF LOAD

NAME OF PANEL	DP		SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE													
	PANEL LOCATION	GROUND FLOOR	X	14.0 mm ²	R,B	AT	70	A															
ENCLOSURE TYPE	NEMA 1	DP				G	5.5 mm ²	GREEN	AF	100	A												
SYSTEM	230 V, 1PH, 60HZ					TYPE	THHN	P	2	P													
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE			CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE										
1	CONVENIENCE OUTLET	720	230	3.13	AB	BC	CD	3 ϕ	AT	AF	P	X	G										
2	RANGE - 8kW	6400.9	230	27.83					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mm ϕ PVC									
3	RANGE - 3.5kW	3500.6	230	15.22					40	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mm ϕ PVC									
4	REFRIGERATOR	2300	230	10.00					30	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mm ϕ PVC									
5	REFRIGERATOR	2760	230	12.00					25	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mm ϕ PVC									
6	LIGHTING OUTLET ORBIT FAN	340	230	1.48					30	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mm ϕ PVC									
TOTAL		16021.5		69.66																			
FOR FEEDER CURRENT		3PH + 1PH LOAD = 69.66 A		25 % CONTINUOUS LOAD = 3.00 A		HIGHEST CURRENT MOTOR DEMAND FACTOR = 80%		TOTAL LOAD CURRENT = 58.13 A		FOR MAIN FEEDER SIZE		<table border="1"> <thead> <tr> <th colspan="2">THHN</th> <th>CONDUIT</th> </tr> <tr> <th>X</th> <th>G</th> <th></th> </tr> </thead> <tbody> <tr> <td>2- 14.0 mm²</td> <td>1- 5.5 mm²</td> <td>32 mmϕ RSC</td> </tr> </tbody> </table>			THHN		CONDUIT	X	G		2- 14.0 mm ²	1- 5.5 mm ²	32 mm ϕ RSC
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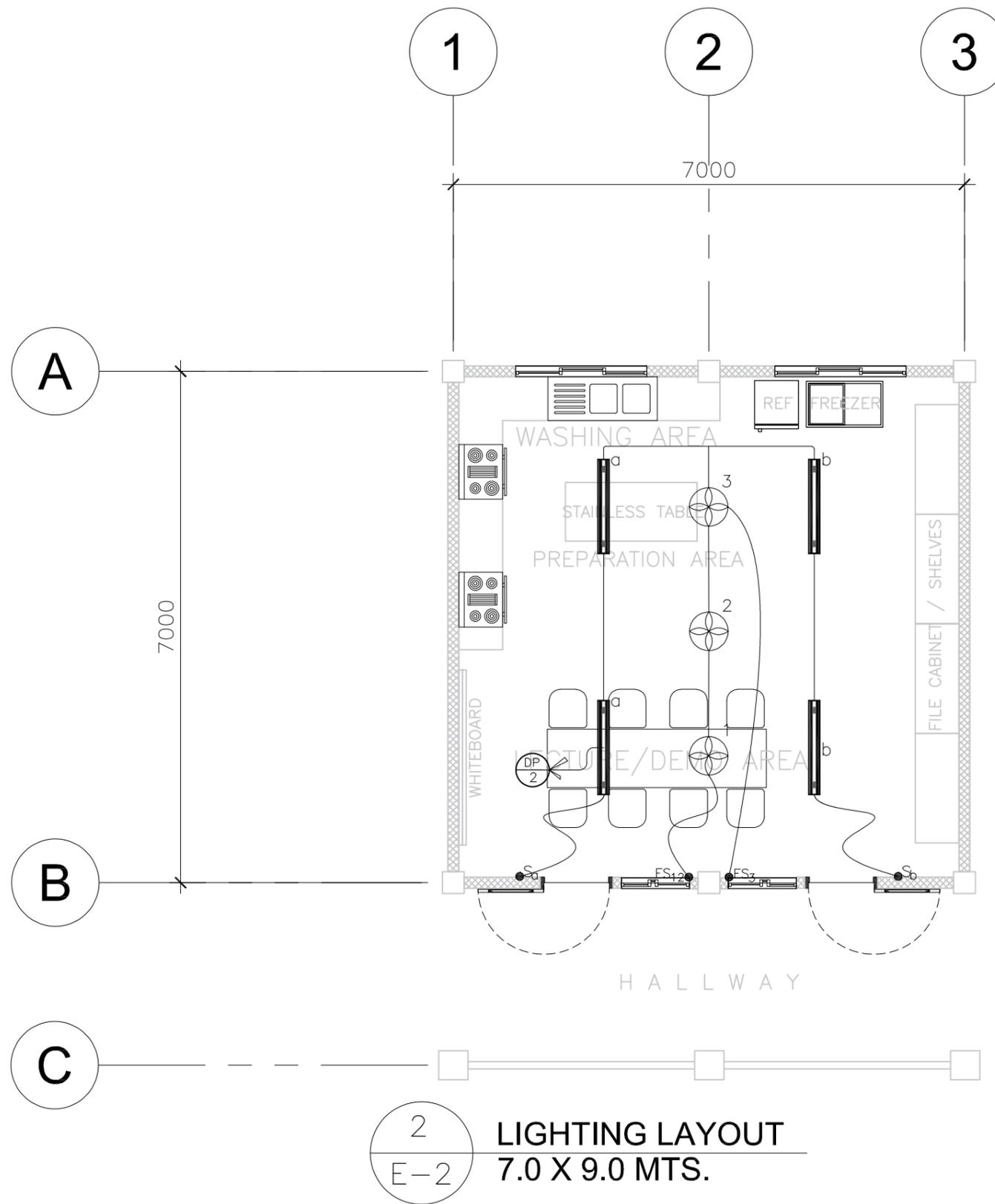
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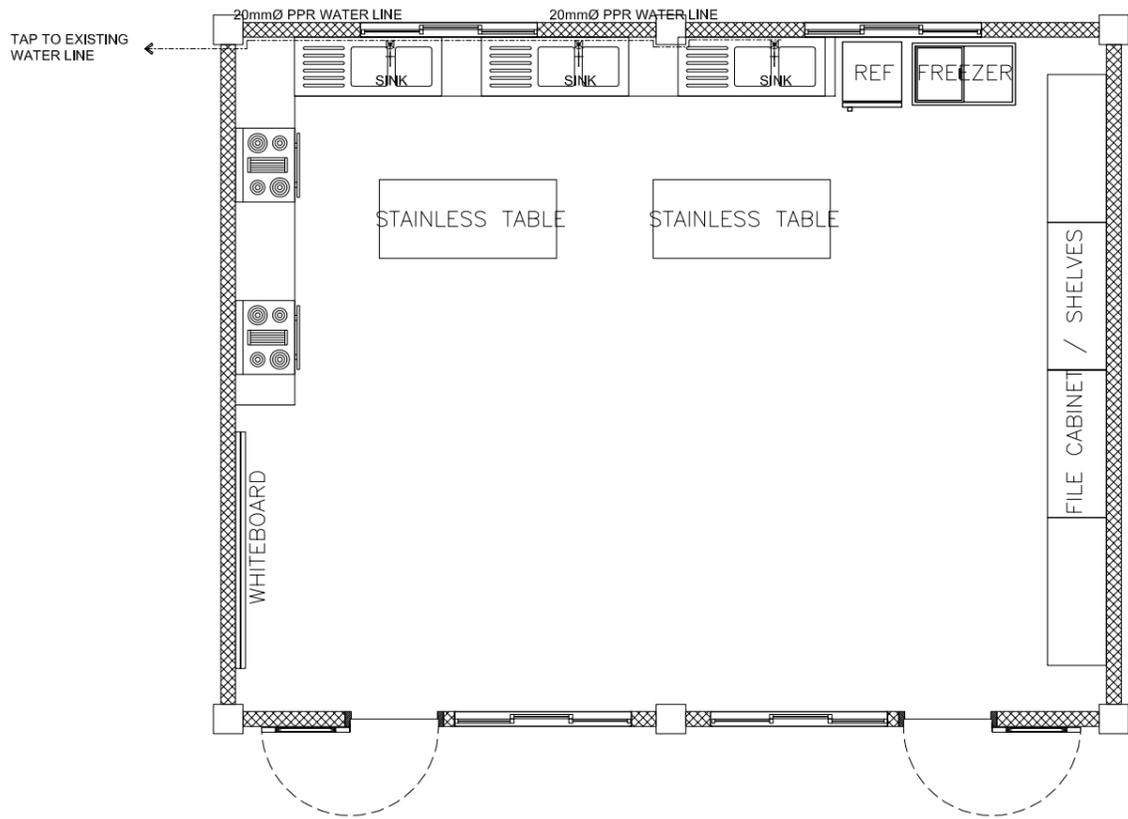
1
E-2 POWER LAYOUT
7.0 X 9.0 MTS.



LAMP TO BE USED :

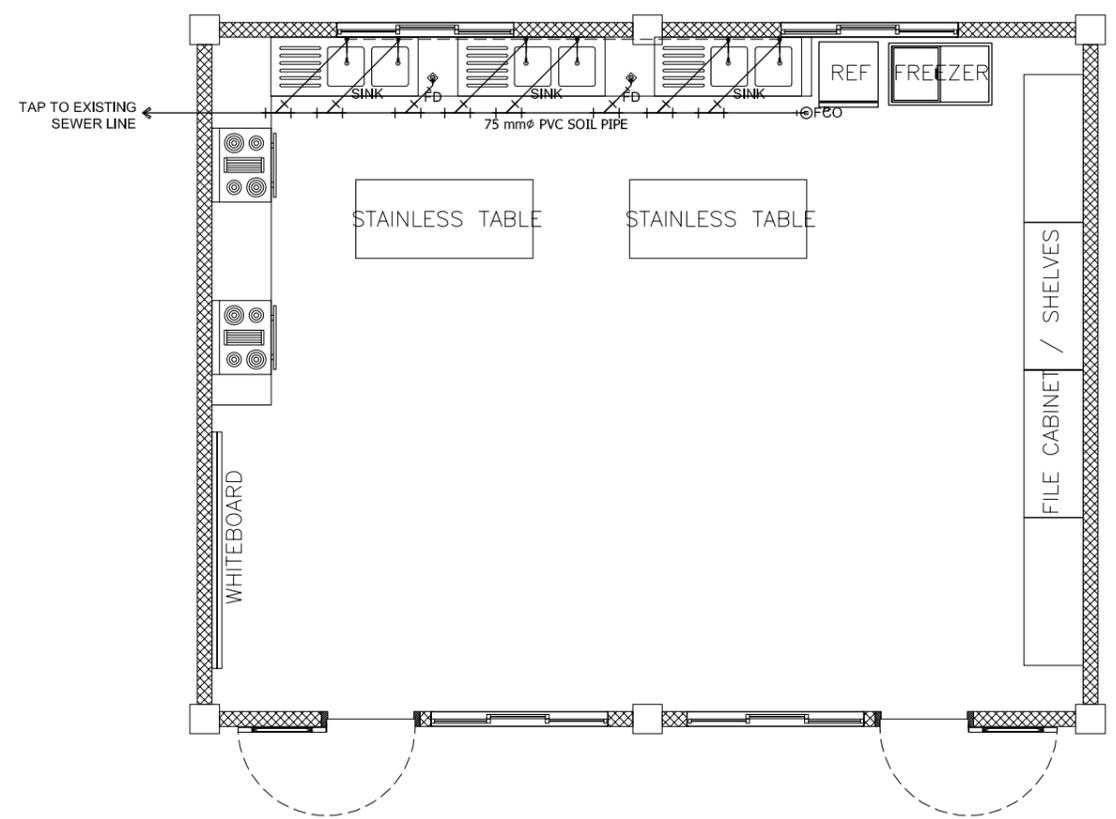
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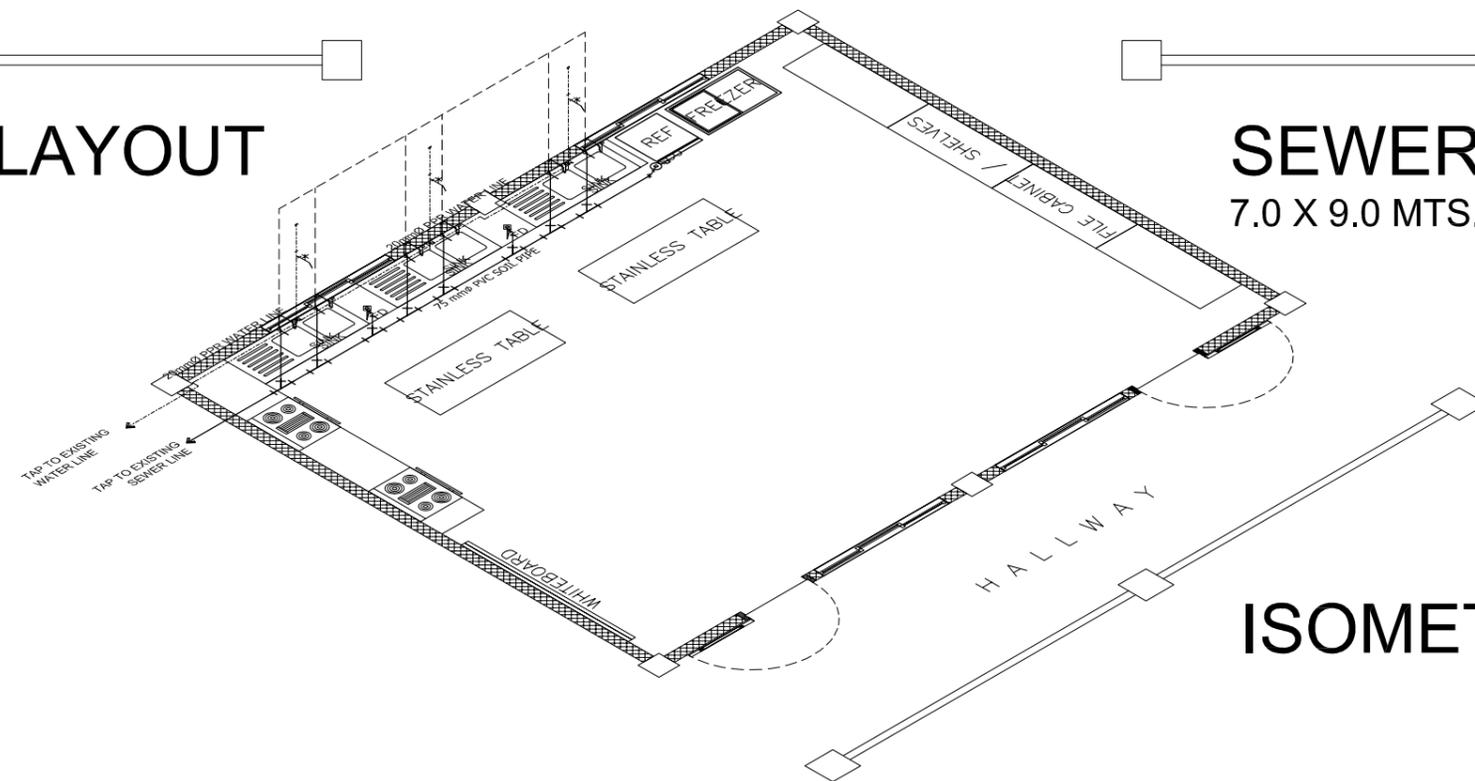
HALLWAY

WATER LINE LAYOUT
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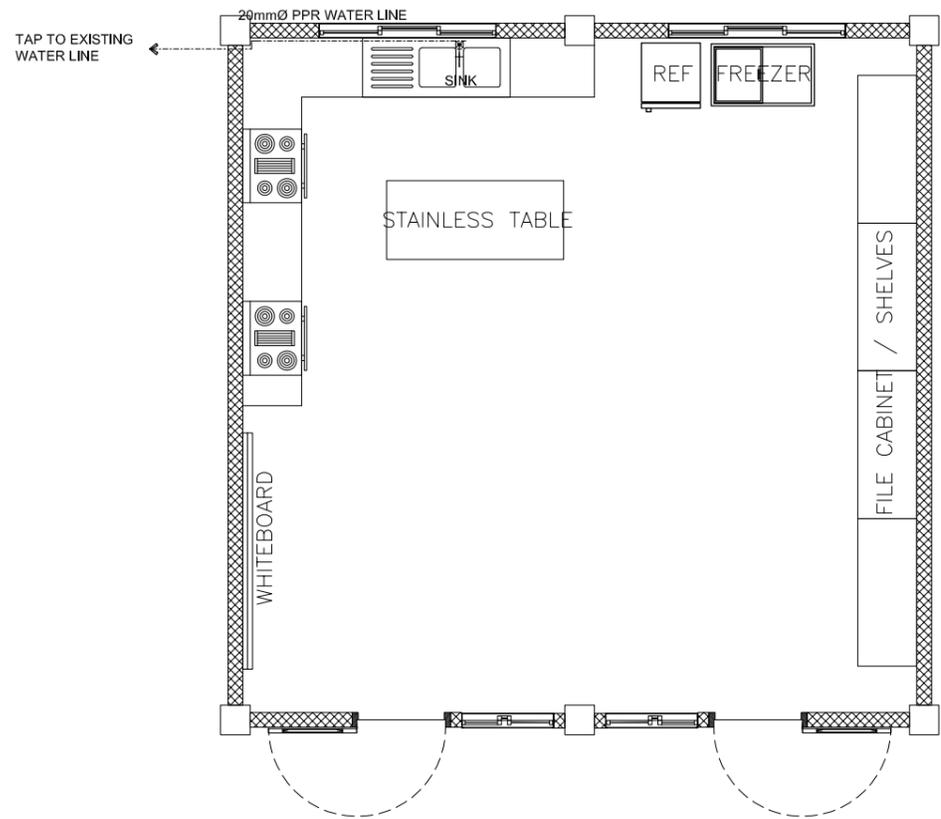
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SEWER LINE LAYOUT
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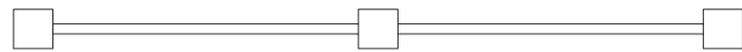


ISOMETRIC VIEW

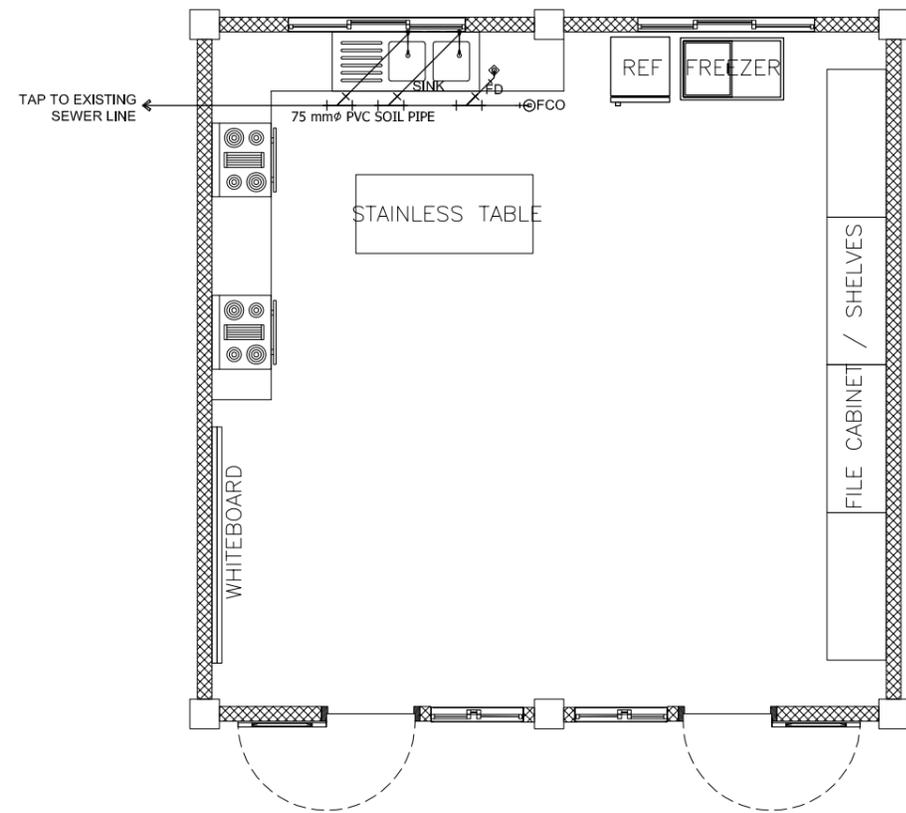
COOKERY



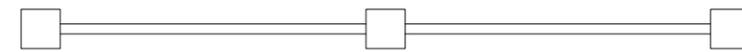
HALLWAY



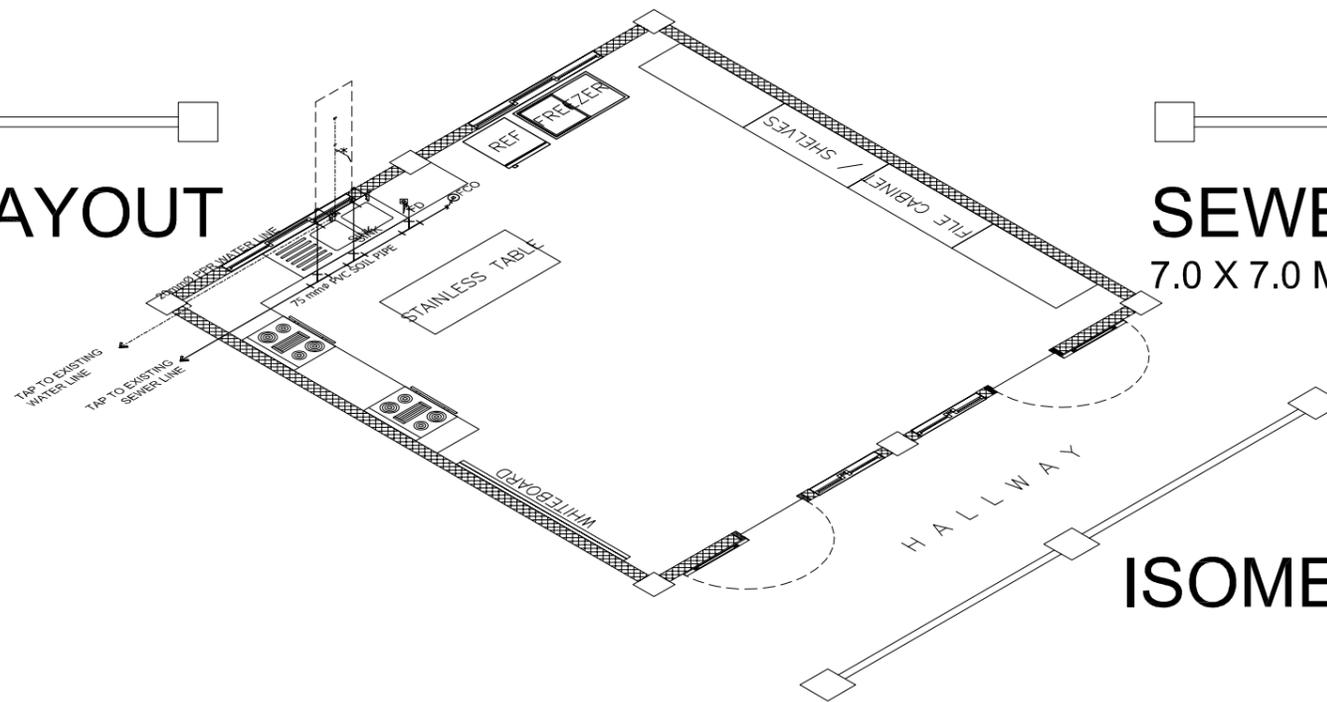
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7.0 X 7.0 MTS.



HALLWAY



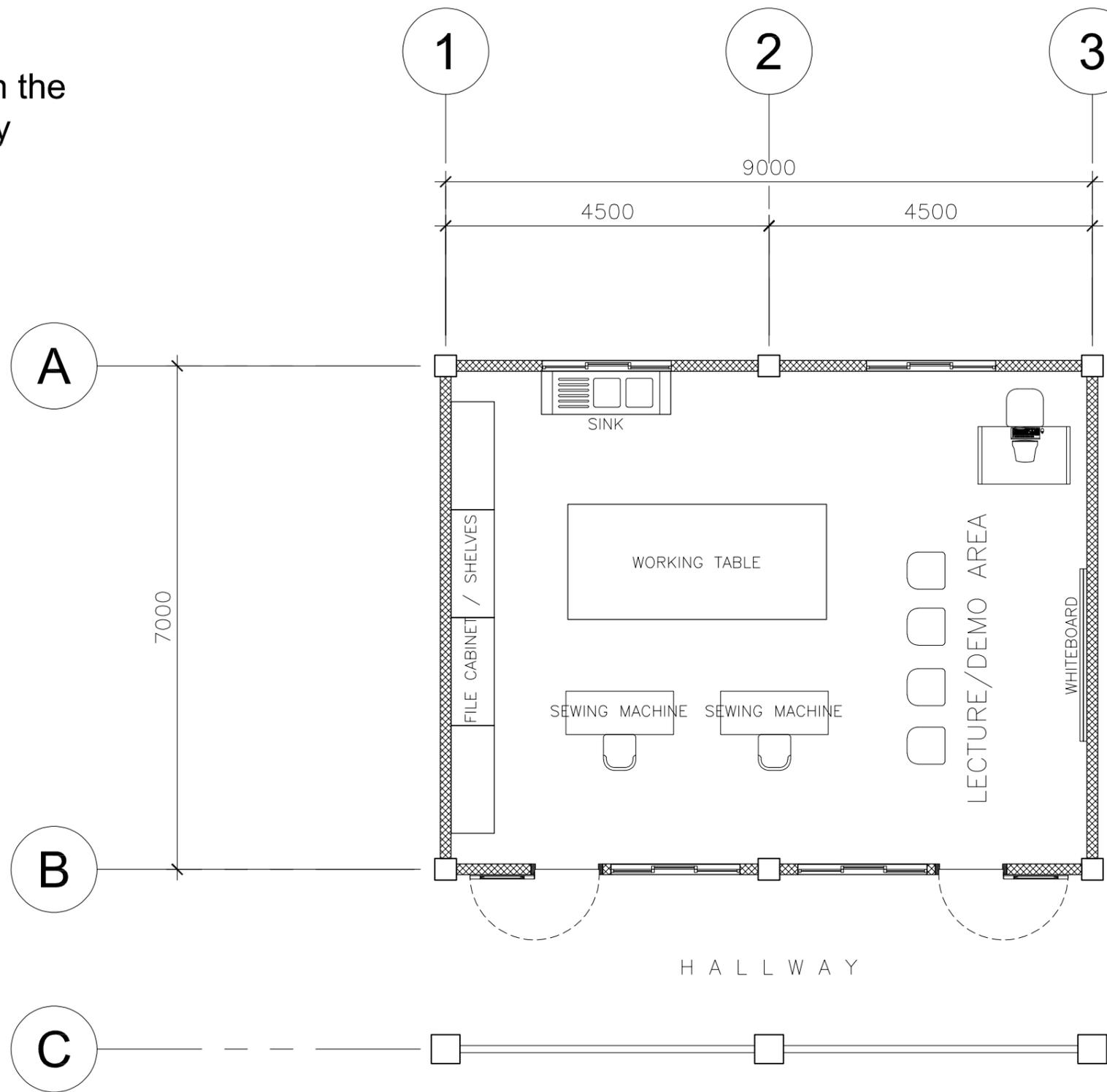
SEWER LINE LAYOUT
7.0 X 7.0 MTS.



ISOMETRIC VIEW

COOKERY

This room will help learners develop, improve, and maintain the skills targeted for daily living.

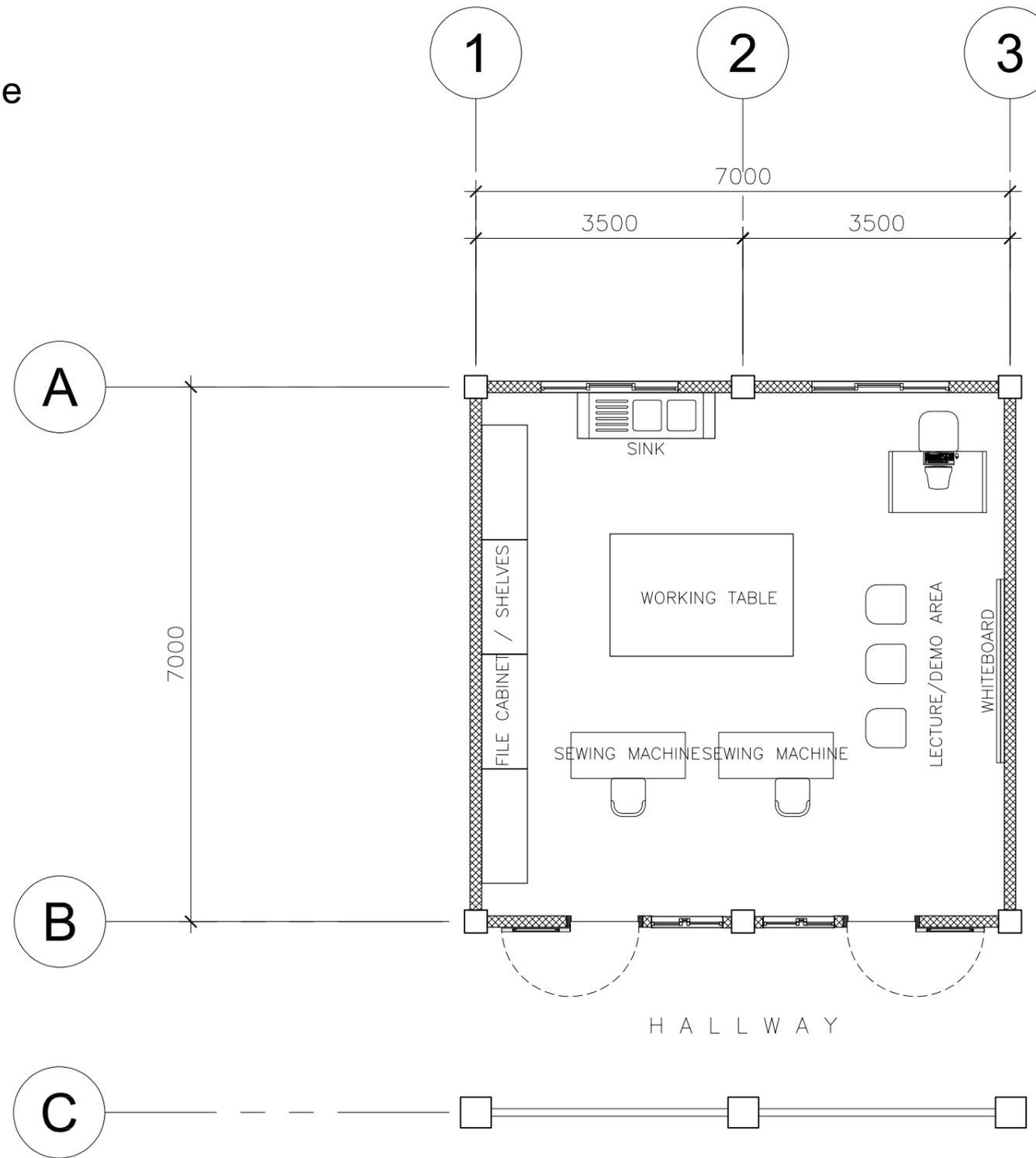


FLOOR LAYOUT
7.0 X 9.0 MTS.

BASIC FEATURES

1. 7m x 7m or 7m x 9m Classroom
2. Provision of sink
3. Provision for
 - Table and chair
 - shelves
 - Sewing machine
 - Working table
 - Floor Carpeting
4. Lighting soft color, dimmable light

This room will help learners develop, improve, and maintain the skills targeted for daily living.



FLOOR LAYOUT
7.0 X 7.0 MTS.

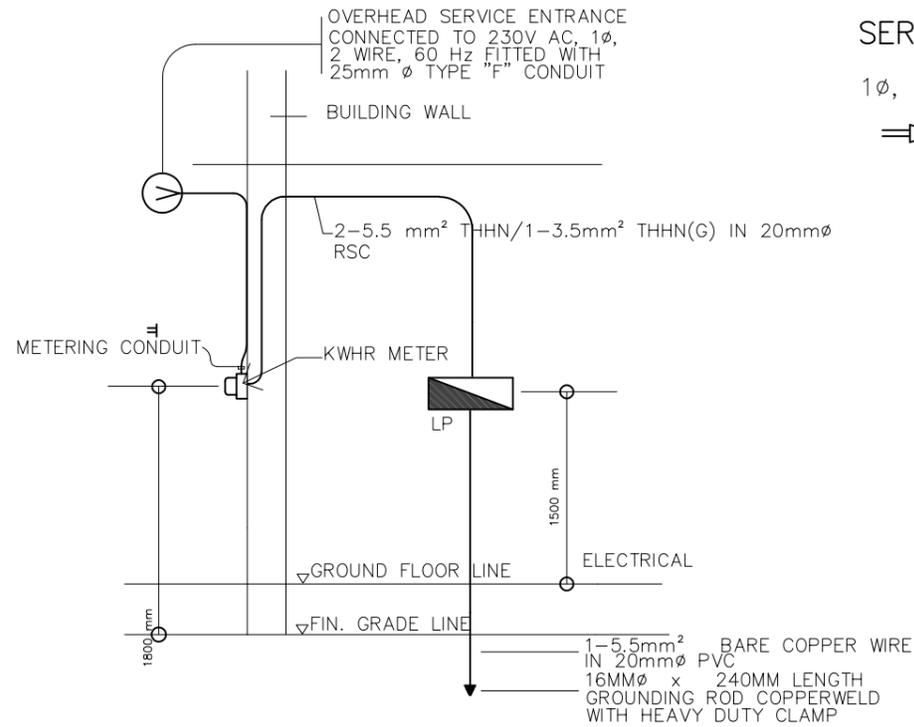
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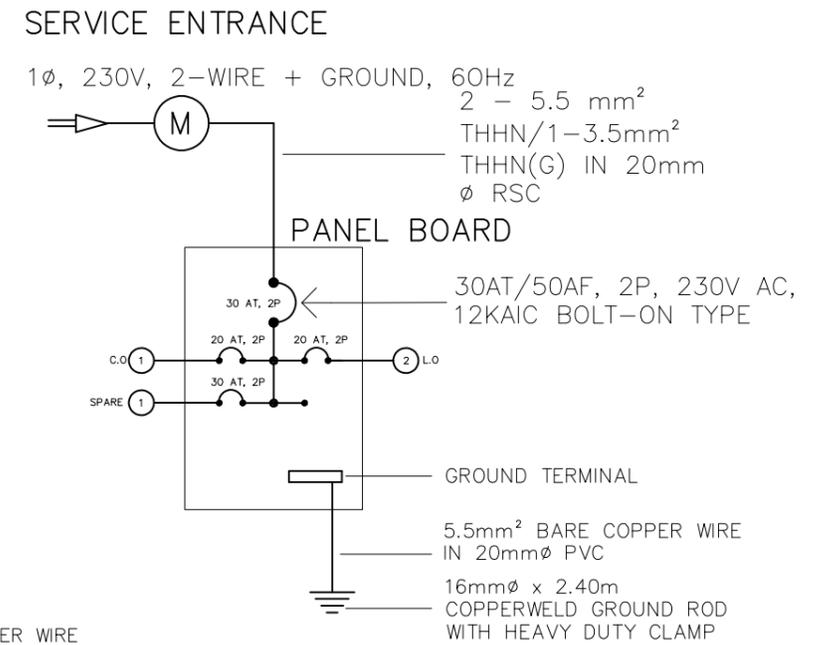
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1 SINGLE LINE DIAGRAM



2 RISER DIAGRAM

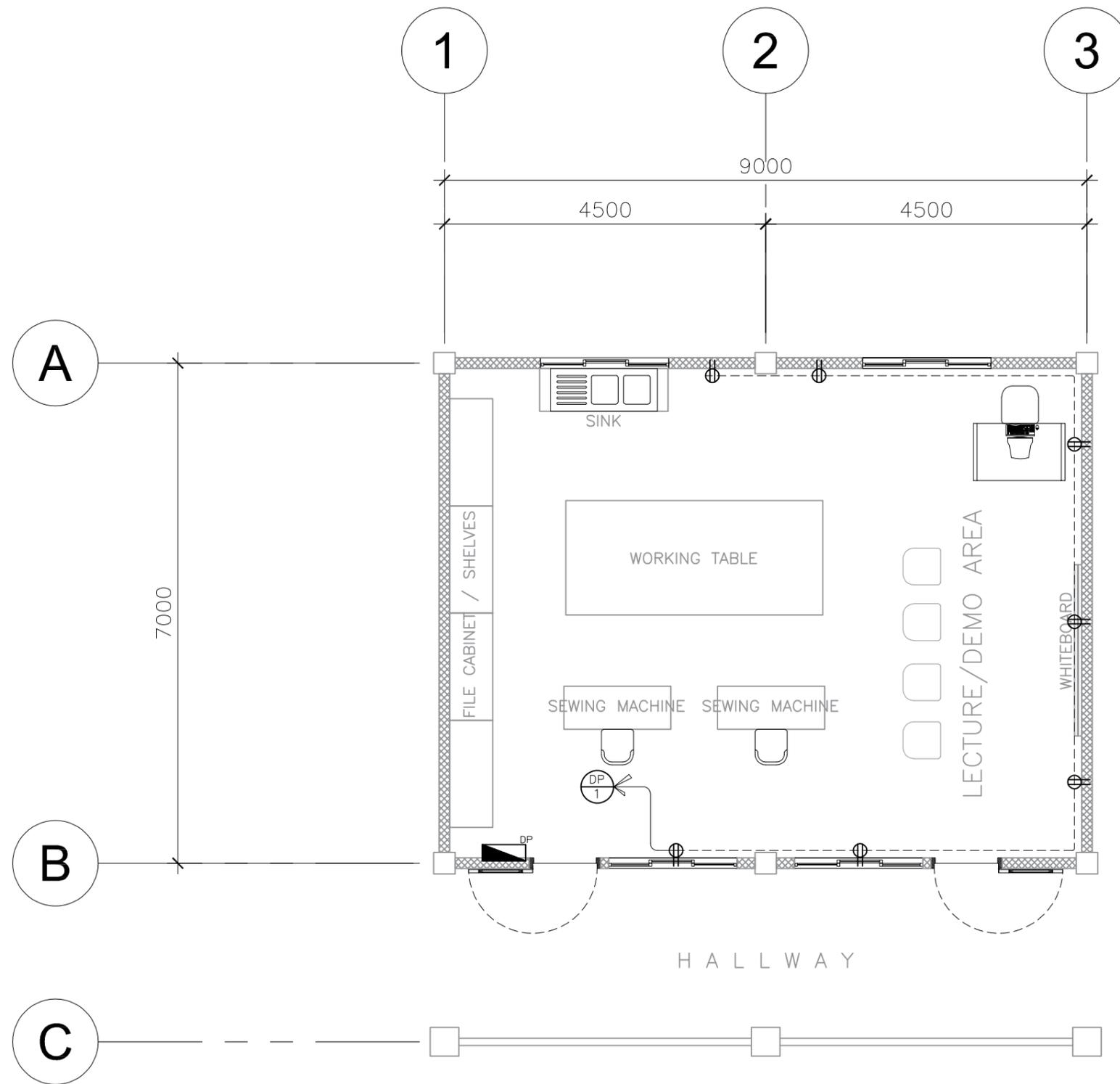


3 SCHEDULE OF LOAD

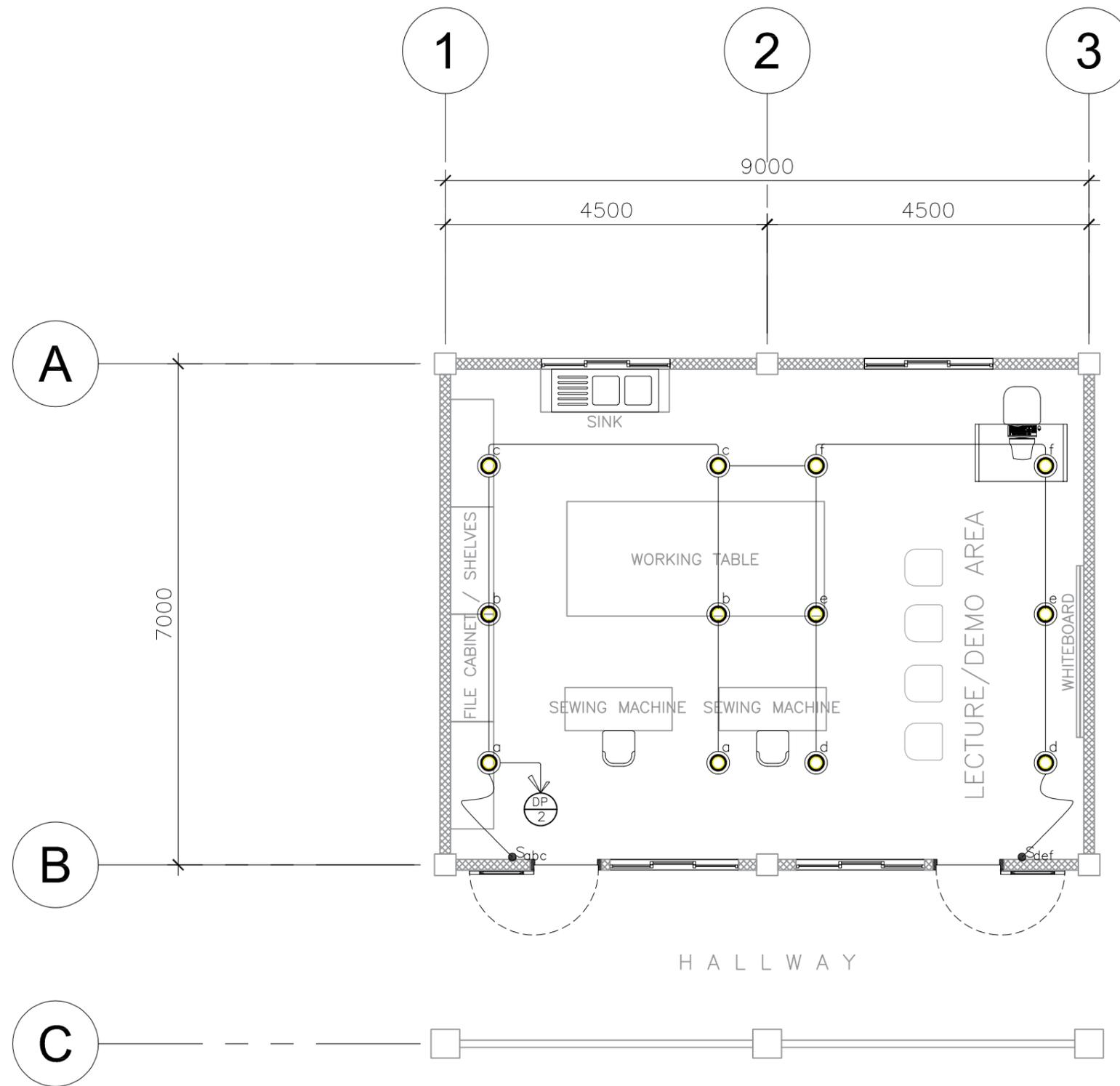
NAME OF PANEL	DP	SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE					
		PANEL LOCATION	GROUND FLOOR			X	5.5 mm ²	R,B	AT	40	A			
ENCLOSURE TYPE	NEMA 1	DP				G	3.5 mm ²	GREEN	AF	50	A			
SYSTEM	230 V, 1PH, 60HZ					TYPE	THHN	P	2	P				
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE			CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE	
					AB	BC	CD	3 ϕ	AT	AF	P	X		G
1	CONVENIENCE OUTLET	1260	230	5.48					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mm ϕ PVC
2	LIGHTING OUTLET	600	230	2.61					20	50	2	2- 3.5 mm ²		20 mm ϕ PVC
3	S P A R E	1500	230	6.52					30	50	2			
TOTAL		1860		14.61										
FOR FEEDER CURRENT		3PH + 1PH LOAD = 14.61 A			FOR MAIN FEEDER SIZE			THHN			CONDUIT			
25 % CONTINUOUS LOAD = 0.00 A		HIGHEST CURRENT MOTOR = 0.00 A			FOR MAIN BREAKER SIZE			X			G			
DEMAND FACTOR = 80%		TOTAL LOAD CURRENT = 11.69 A						2- 5.5 mm ²			1- 3.5 mm ² 20 mm ϕ RSC			
								AT			40			
								AF			50			
								P			2			

LEGEND

SYMBOL	DESCRIPTION
S _a	ONE GANG DEVICE SWITCH
S _{ab}	TWO GANG DEVICE SWITCH
SF	FAN CONTROL SWITCH
	ORBIT FAN OUTLET
	RACEWAY CONDUIT CONCEALED IN CEILING
	RACEWAY CONDUIT CONCEALED UNDER FLOOR
	PANELBOARD, MARKED AS "MDP/DPA/DPB"
	CKT. BREAKER, RATING AS INDICATED
	DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
	CIRCUIT HOMERUN
	SERVICE METER
	SERVICE ENTRANCE



1
E-2 POWER LAYOUT
7.0 X 9.0 MTS.



2
E-2 LIGHTING LAYOUT
7.0 X 9.0 MTS.

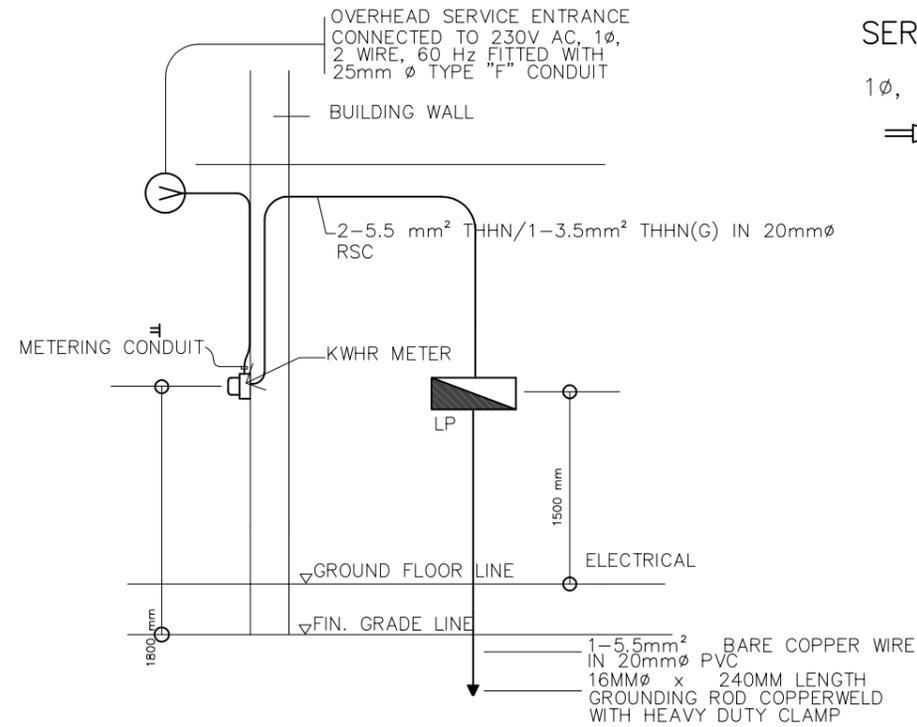
LAMP TO BE USED :

 1- 12W DIMMABLE LED LIGHT
(220V-240V) 50Hz
APPLICATION:
- Comfortable light
- Soft light
- General light

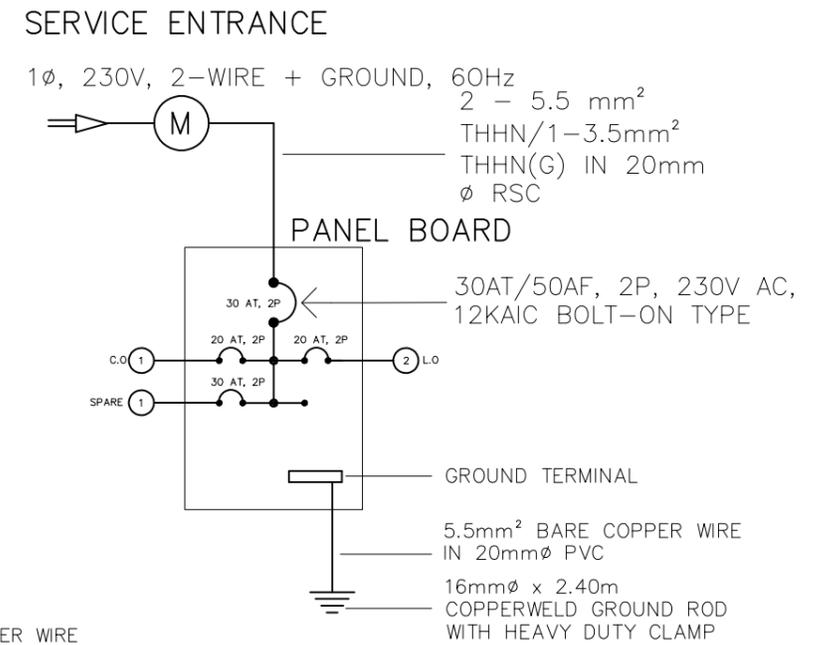
GENERAL NOTES

- ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC). THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
- THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE + GROUND 230 V AC, 60 Hz.
- WIRING METHOD SHALL BE AS FOLLOWS :
 - FEEDERS AND RISERS - RIGID STEEL CONDUIT
 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT BRANCH CKT., & AUXILIARY THICK WALL
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 20mm ϕ TRADE/NOMINAL SIZE.
- ALL OUTLET BOXES SHALL BE POLYVINYL CHLORIDE (PVC) TYPE WITH FACTORY KNOCKOUTS.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
- EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
 - LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - PANELBOARD - 1.80 M ABOVE FINISH FLOOR

1 SINGLE LINE DIAGRAM



2 RISER DIAGRAM

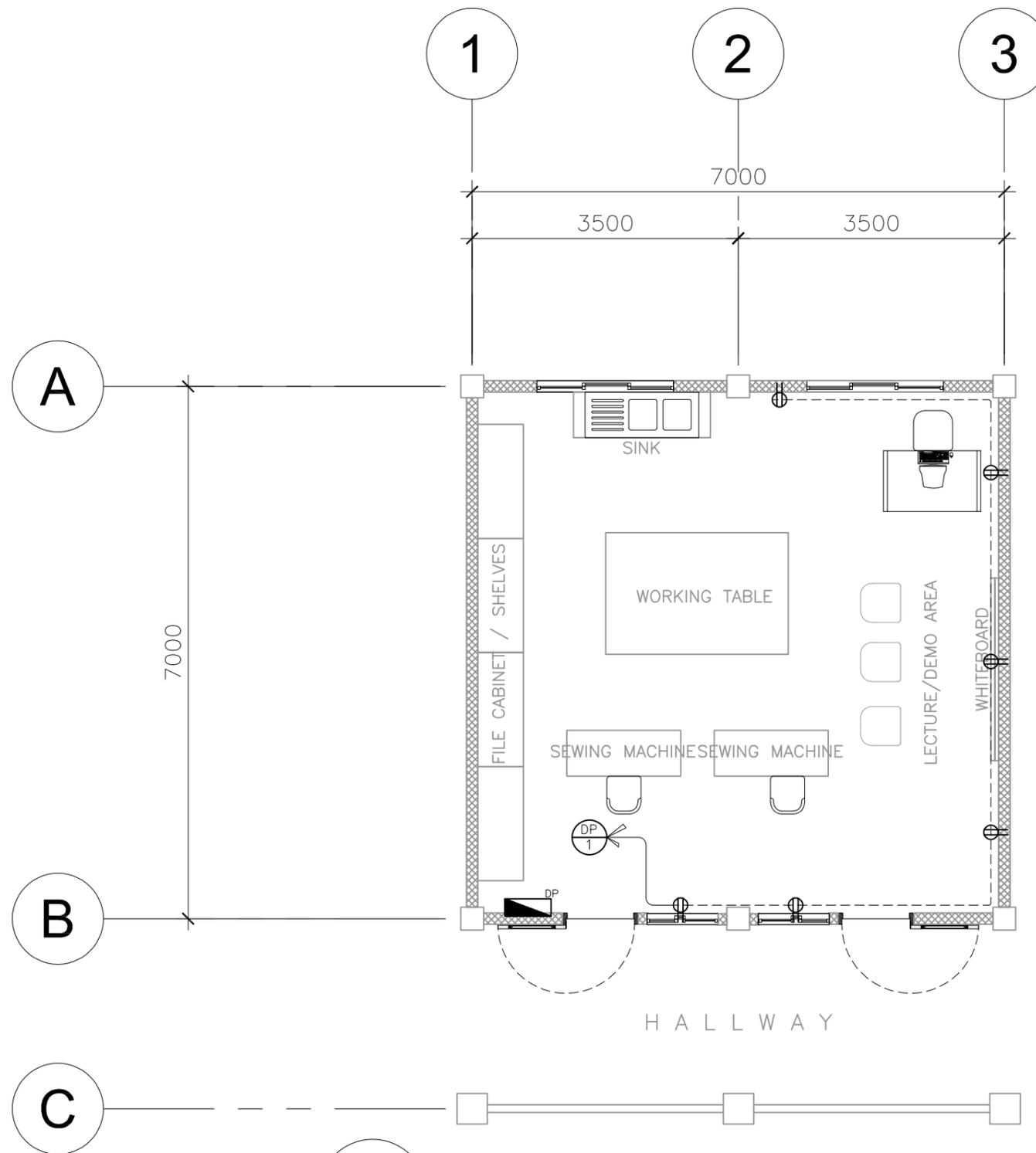


3 SCHEDULE OF LOAD

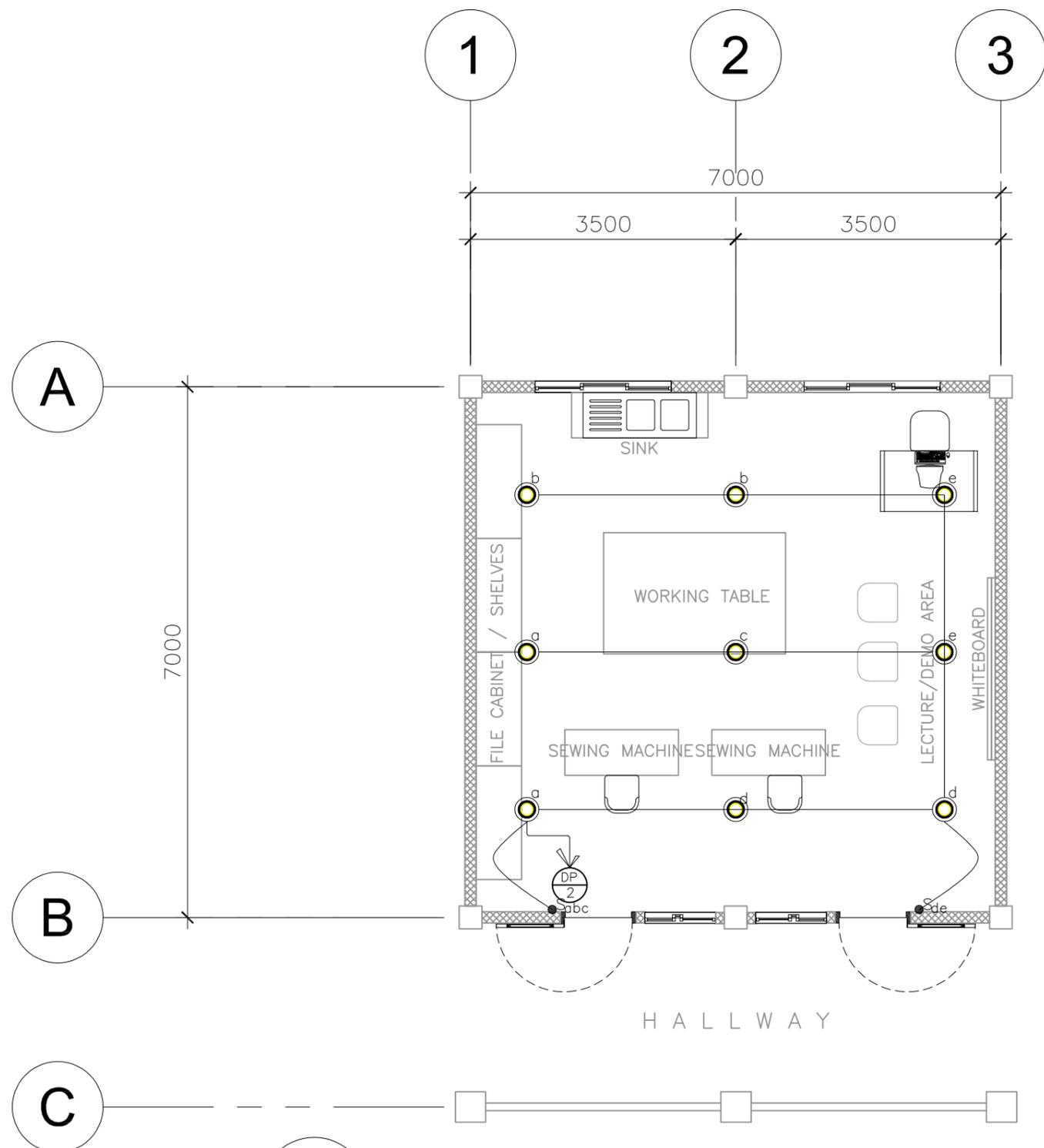
NAME OF PANEL	DP	SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE											
PANEL LOCATION	GROUND FLOOR	DP				X	5.5 mm ²	R,B	AT	40	A									
ENCLOSURE TYPE	NEMA 1					G	3.5 mm ²	GREEN	AF	50	A									
SYSTEM	230 V, 1PH, 60HZ					TYPE	THHN		P	2	P									
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE			CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE							
					AB	BC	CD	3 ϕ	AT	AF	P	X		G						
1	CONVENIENCE OUTLET	1260	230	5.48					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mm ϕ PVC						
2	LIGHTING OUTLET	600	230	2.61					20	50	2	2- 3.5 mm ²		20 mm ϕ PVC						
3	S P A R E	1500	230	6.52					30	50	2									
TOTAL		1860		14.61																
FOR FEEDER CURRENT								FOR MAIN FEEDER SIZE			<table border="1"> <thead> <tr> <th colspan="2">THHN</th> <th rowspan="2">CONDUIT</th> </tr> <tr> <th>X</th> <th>G</th> </tr> </thead> <tbody> <tr> <td>2- 5.5 mm²</td> <td>1- 3.5 mm²</td> <td>20 mmϕ RSC</td> </tr> </tbody> </table>		THHN		CONDUIT	X	G	2- 5.5 mm ²	1- 3.5 mm ²	20 mm ϕ RSC
THHN		CONDUIT																		
X	G																			
2- 5.5 mm ²	1- 3.5 mm ²	20 mm ϕ RSC																		
3PH + 1PH LOAD = 14.61 A 25 % CONTINUOUS LOAD = 0.00 A HIGHEST CURRENT MOTOR = 0.00 A DEMAND FACTOR = 80% TOTAL LOAD CURRENT = 11.69 A								FOR MAIN BREAKER SIZE			<table border="1"> <thead> <tr> <th>AT</th> <th>40</th> </tr> </thead> <tbody> <tr> <td>AF</td> <td>50</td> </tr> <tr> <td>P</td> <td>2</td> </tr> </tbody> </table>		AT	40	AF	50	P	2		
AT	40																			
AF	50																			
P	2																			

LEGEND

SYMBOL	DESCRIPTION
S _a	ONE GANG DEVICE SWITCH
S _{ab}	TWO GANG DEVICE SWITCH
S _F	FAN CONTROL SWITCH
(Symbol)	ORBIT FAN OUTLET
(Symbol)	RACEWAY CONDUIT CONCEALED IN CEILING
(Symbol)	RACEWAY CONDUIT CONCEALED UNDER FLOOR
(Symbol)	PANELBOARD, MARKED AS "MDP/DPA/DPB"
(Symbol)	CKT. BREAKER, RATING AS INDICATED
(Symbol)	DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
(Symbol)	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
(Symbol)	CIRCUIT HOMERUN
(Symbol)	SERVICE METER
(Symbol)	SERVICE ENTRANCE



1
E-2
POWER LAYOUT
7.0 X 9.0 MTS.



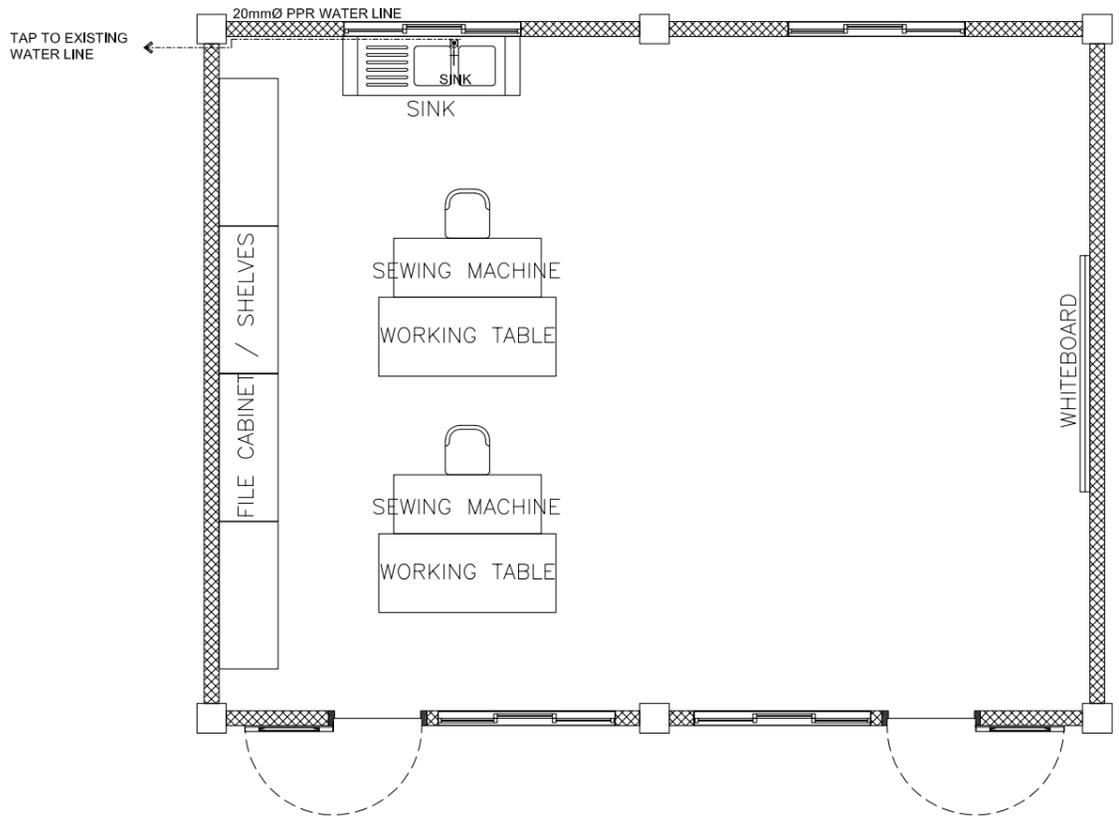
2
LIGHTING LAYOUT
E-2
7.0 X 9.0 MTS.

LAMP TO BE USED :

○ 1- 12W DIMMABLE LED LIGHT (220V-240V) 50Hz

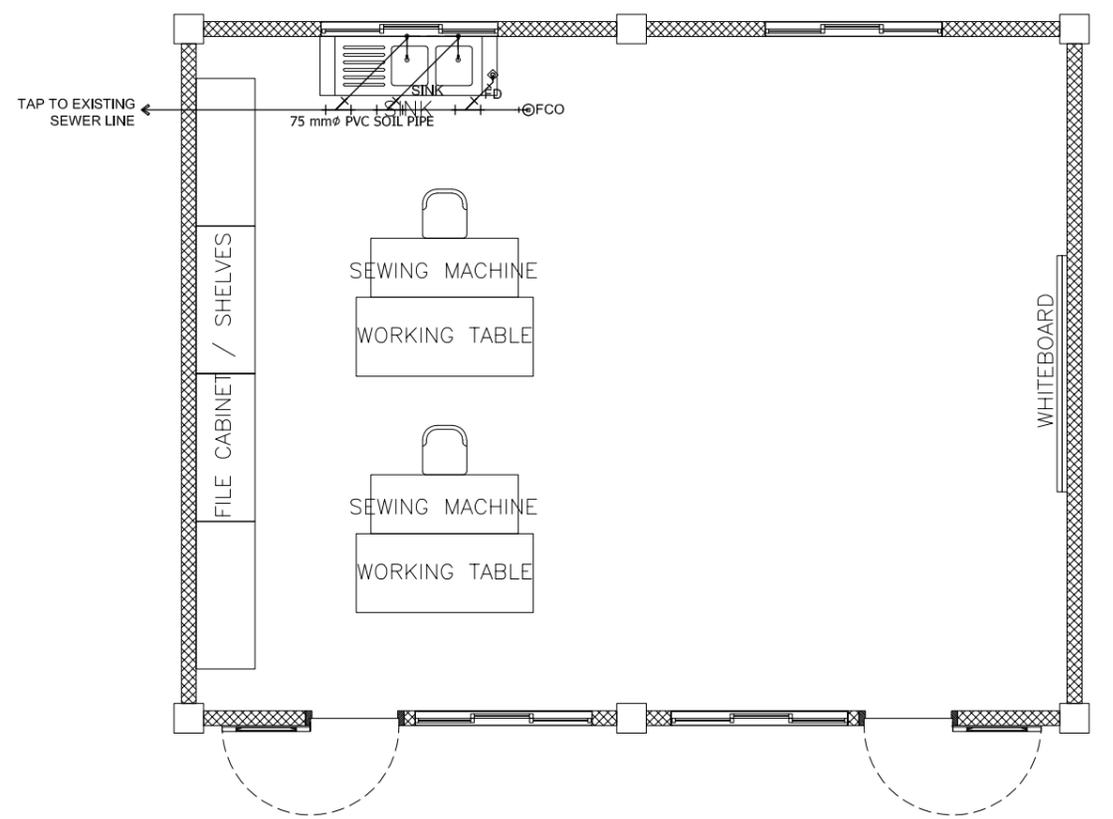
APPLICATION:

- Comfortable light
- Soft light
- General light



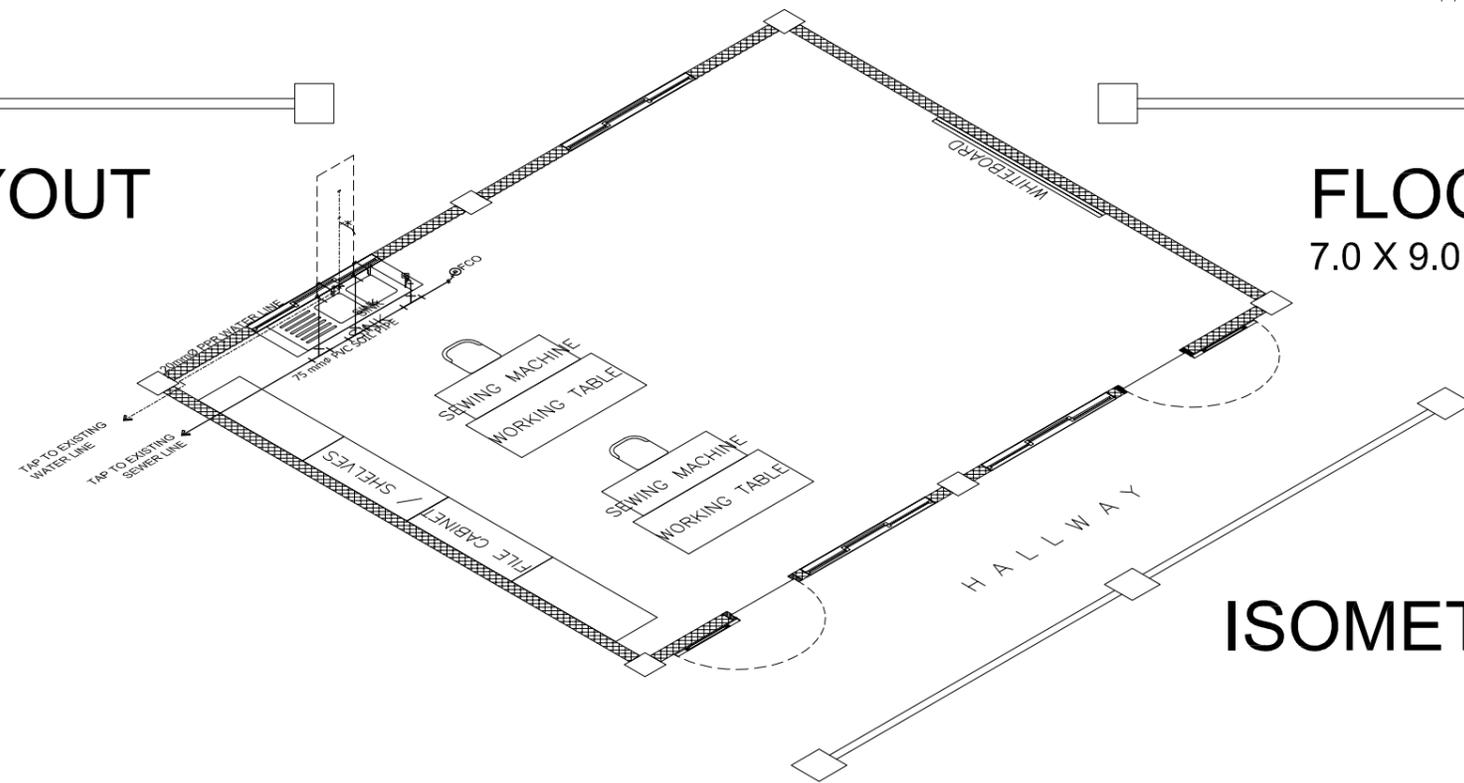
H A L L W A Y

FLOOR LAYOUT
7.0 X 9.0 MTS.



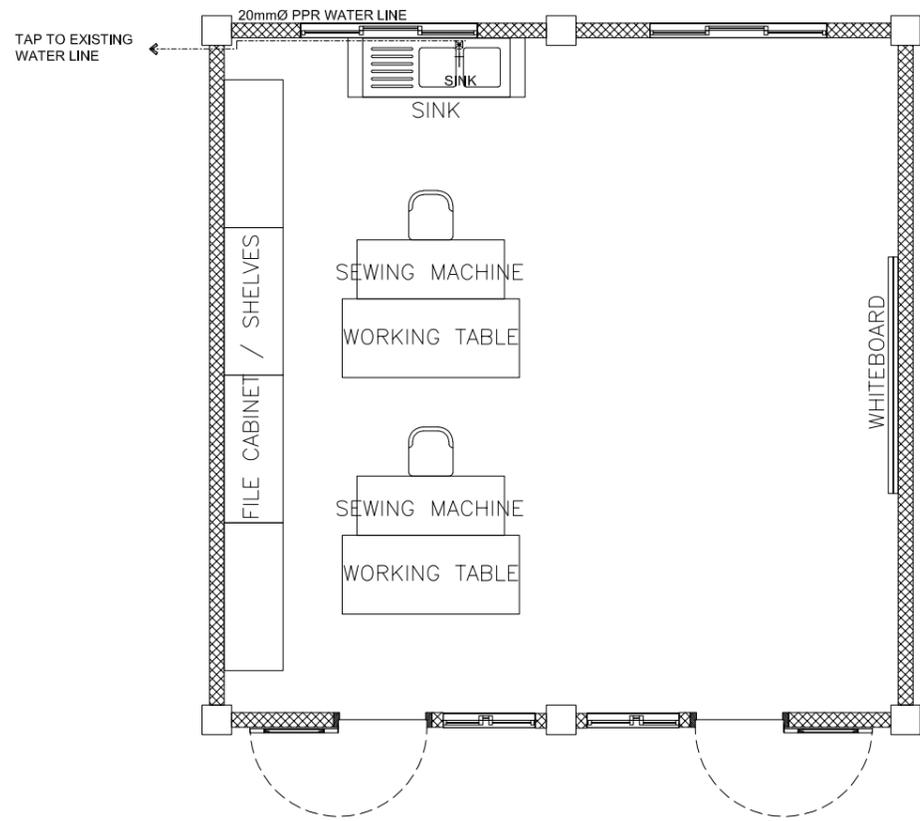
H A L L W A Y

FLOOR LAYOUT
7.0 X 9.0 MTS.

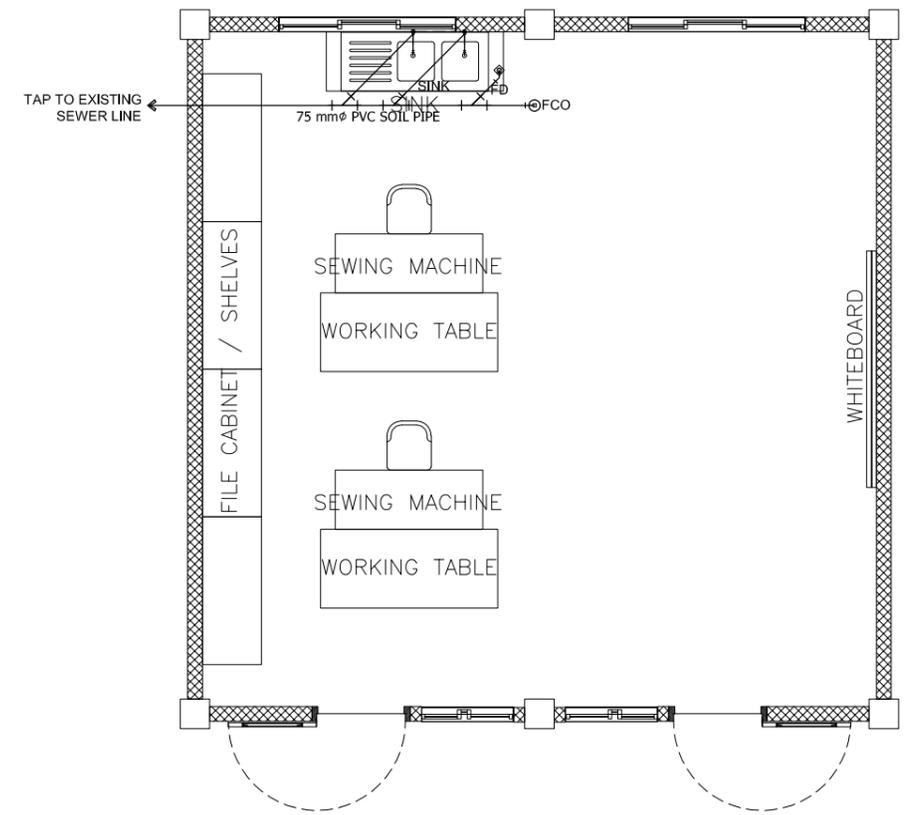


ISOMETRIC VIEW

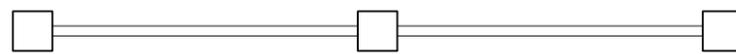
ARTS AND CRAFT



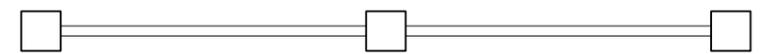
HALLWAY



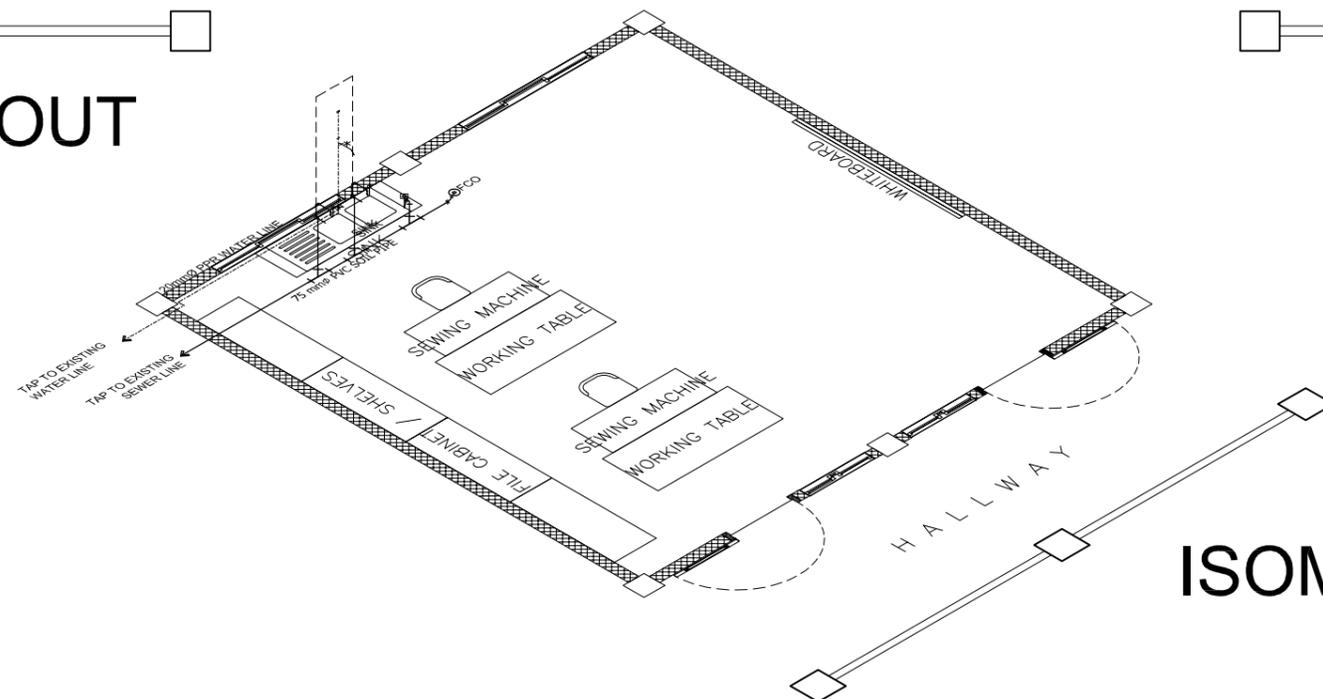
HALLWAY



FLOOR LAYOUT
7.0 X 7.0 MTS.



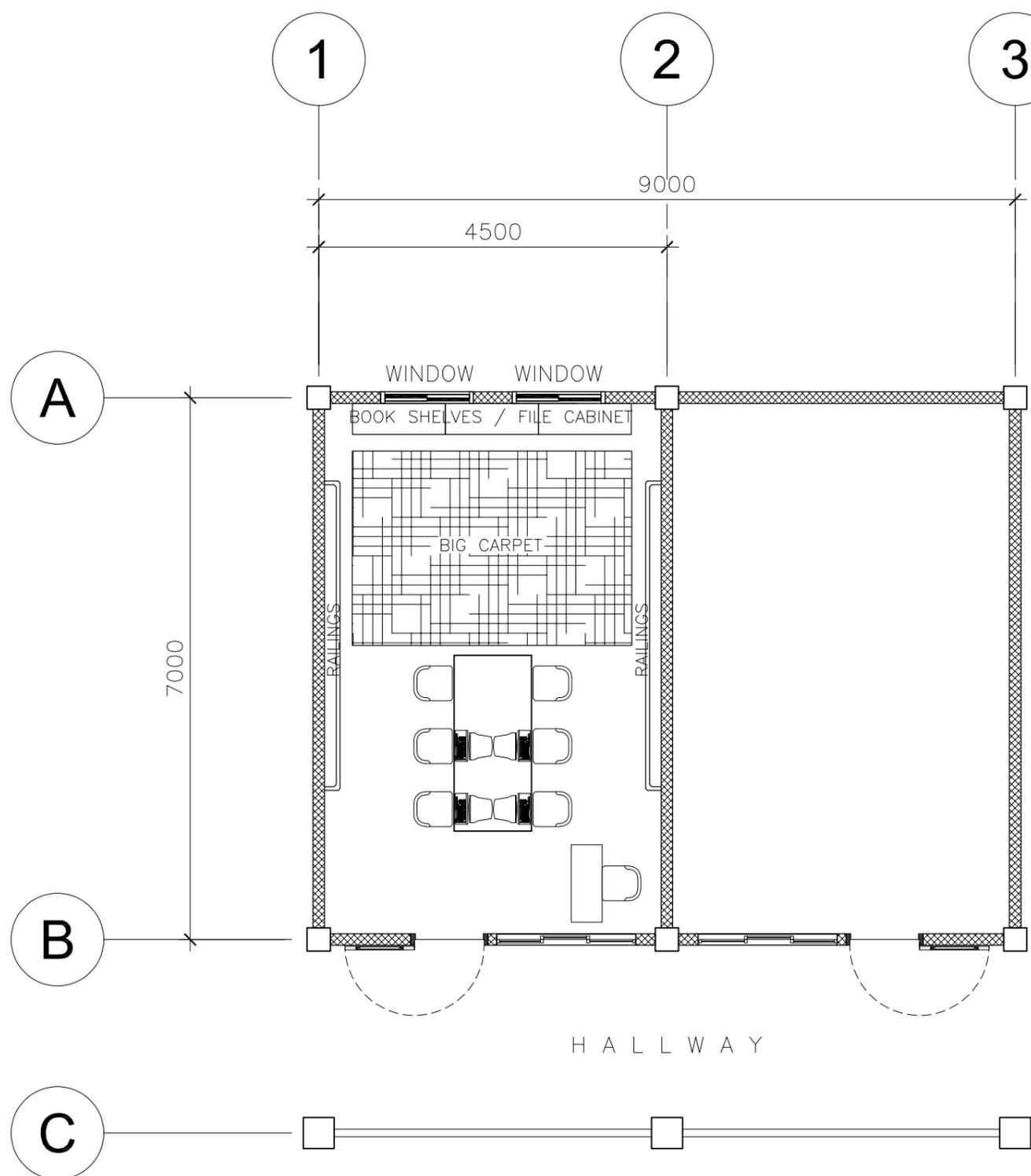
FLOOR LAYOUT
7.0 X 7.0 MTS.



ISOMETRIC VIEW

ARTS AND CRAFT

This area provides access to electronic resources and radio reading for learners with disabilities. It has learning and instructional materials in a variety of formats and with accommodations.

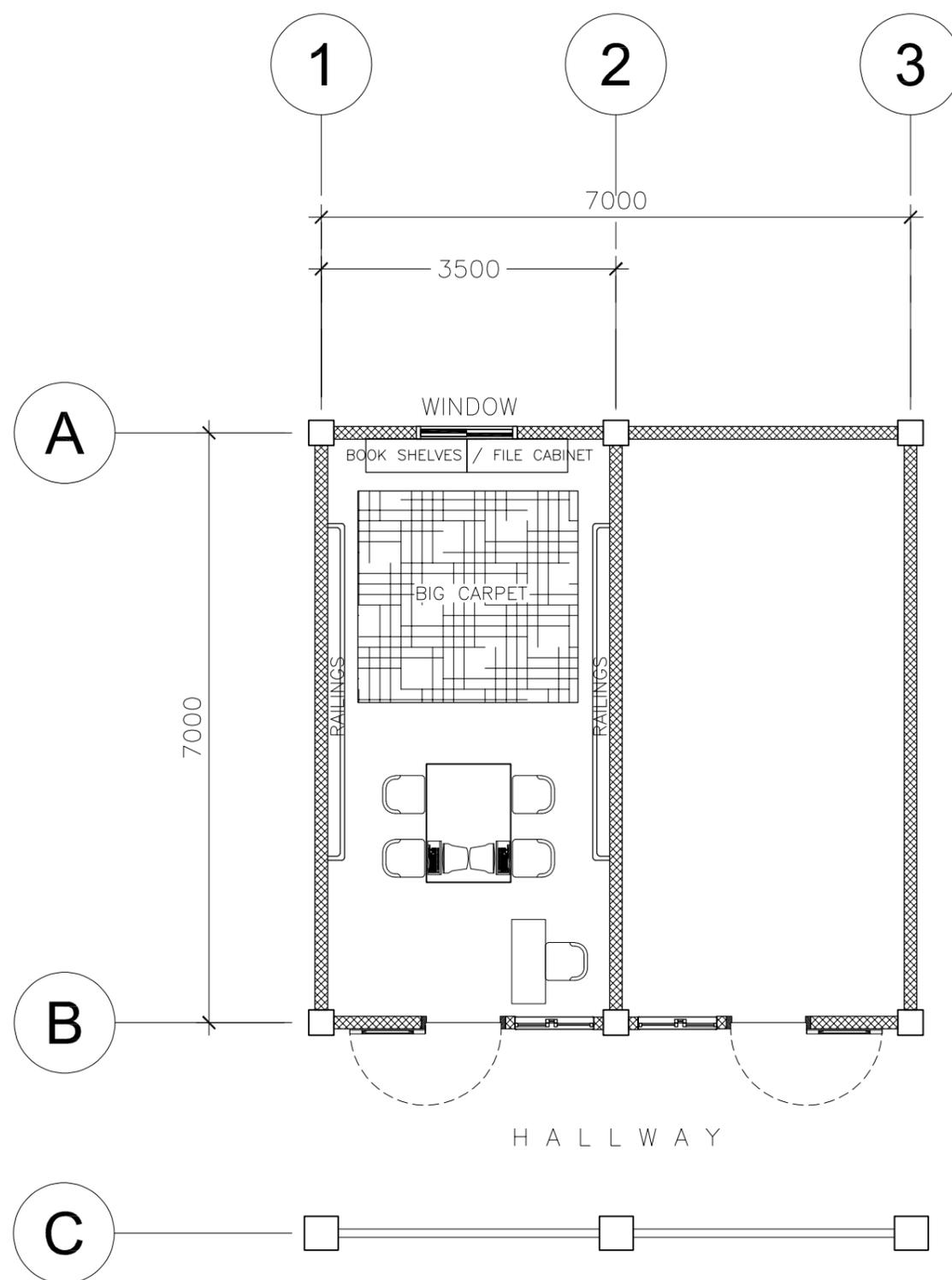


FLOOR LAYOUT
7.0 X 9.0 MTS.

BASIC FEATURES

1. $\frac{1}{2}$ of regular classroom (7.0 x 9.0 mts.) or 7.0 x 4.50mts.
2. Provision for windows
3. Book shelves at least four layers
4. Walking rails around the room
5. Tables and chairs
6. Open cabinets for audio books and publications
7. Filing cabinet for the librarian for files of users of the library
8. Computer with applications appropriate for the blind
9. Computer with applications appropriate for the deaf
10. A big carpet with design appropriate for learners with disabilities

This area provides access to electronic resources and radio reading for learners with disabilities. It has learning and instructional materials in a variety of formats and with accommodations.



FLOOR LAYOUT
7.0 X 7.0 MTS.

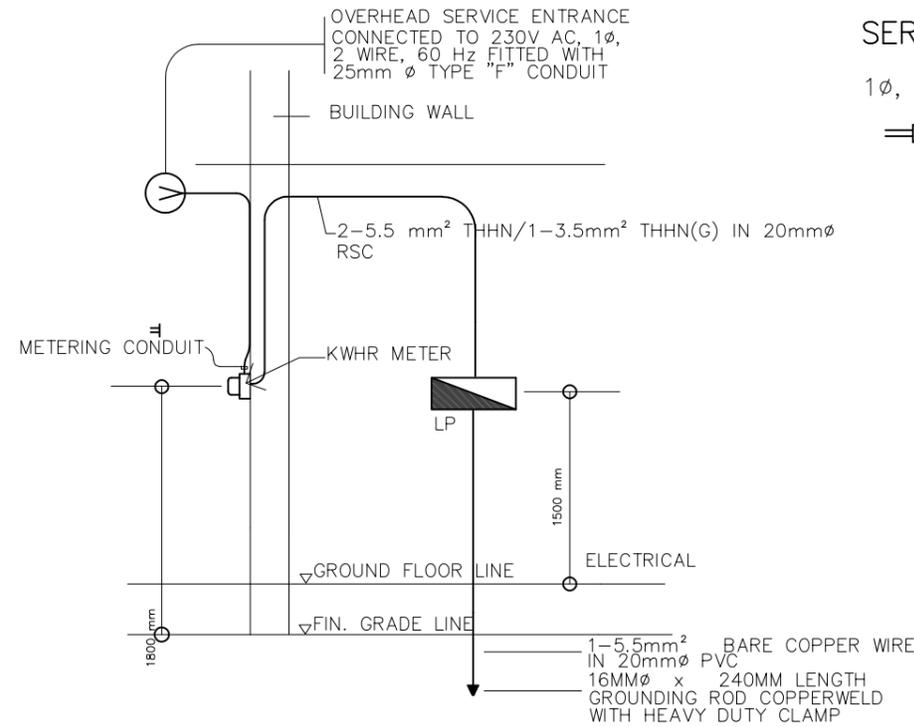
BASIC FEATURES

1. 1/2 of regular classroom (7.0 x 9.0 mts.) or 7.0 x 4.50mts.
2. Provision for windows
3. Book shelves at least four layers
4. Walking rails around the room
5. Tables and chairs
6. Open cabinets for audio books and publications
7. Filing cabinet for the librarian for files of users of the library
8. Computer with applications appropriate for the blind
9. Computer with applications appropriate for the deaf
10. A big carpet with design appropriate for learners with disabilities

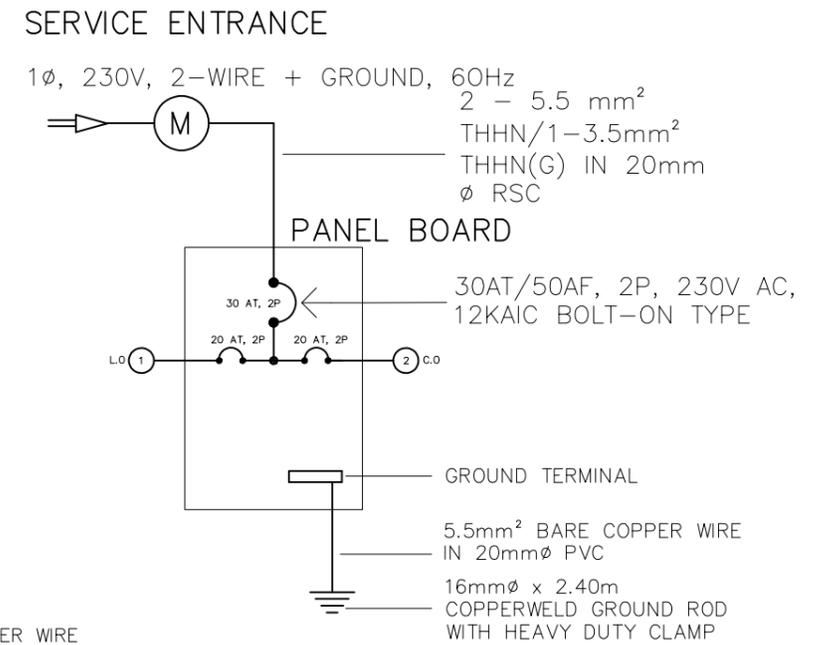
GENERAL NOTES

- ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC). THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
- THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE + GROUND 230 V AC, 60 Hz.
- WIRING METHOD SHALL BE AS FOLLOWS :
 - FEEDERS AND RISERS - RIGID STEEL CONDUIT
 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT BRANCH CKT., & AUXILIARY THICK WALL
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 20mm ϕ TRADE/NOMINAL SIZE.
- ALL OUTLET BOXES SHALL BE POLYVINYL CHLORIDE (PVC) TYPE WITH FACTORY KNOCKOUTS.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
- EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
 - LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - PANELBOARD - 1.80 M ABOVE FINISH FLOOR

1 SINGLE LINE DIAGRAM E-1



2 RISER DIAGRAM E-1

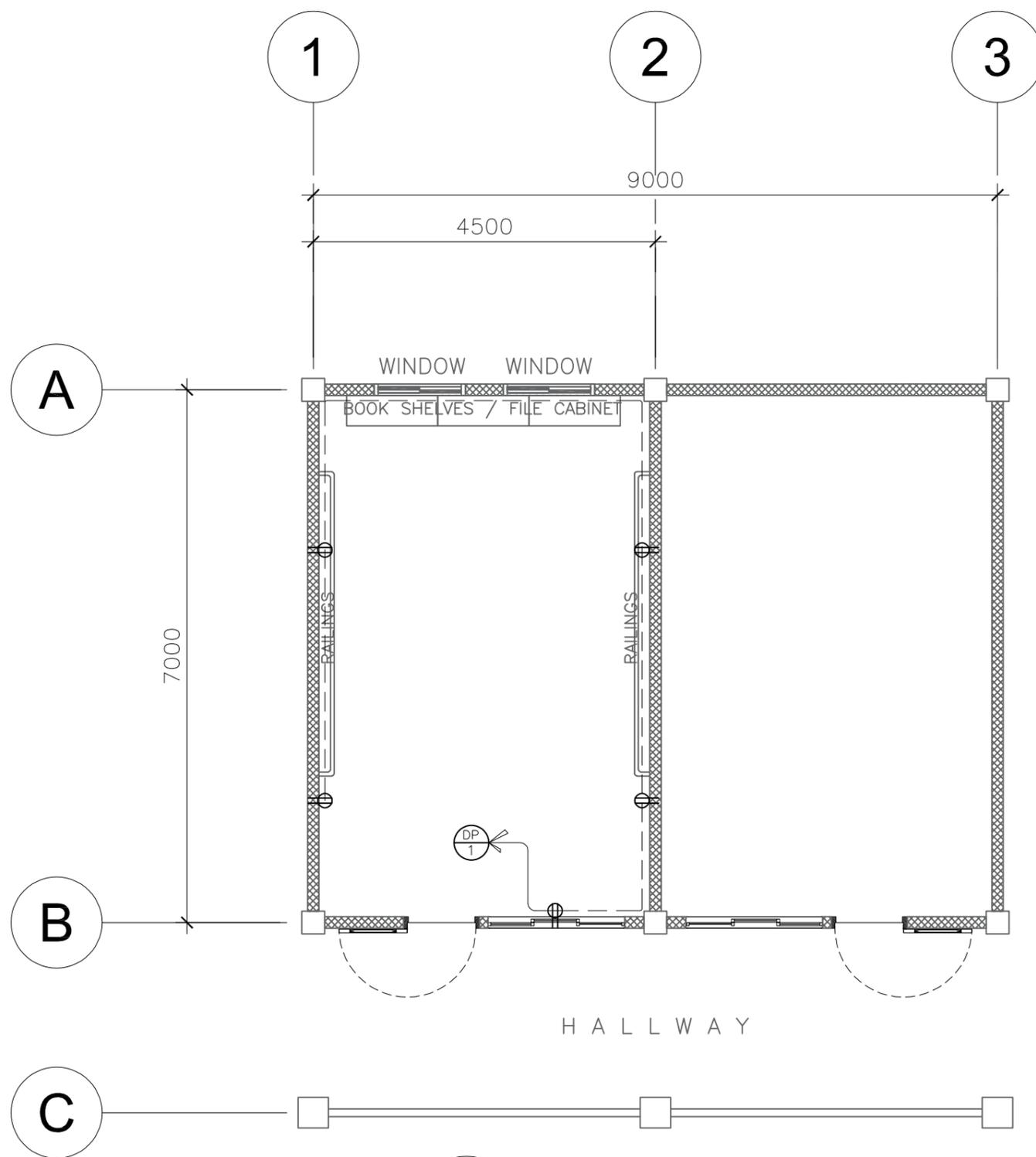


3 SCHEDULE OF LOAD E-1

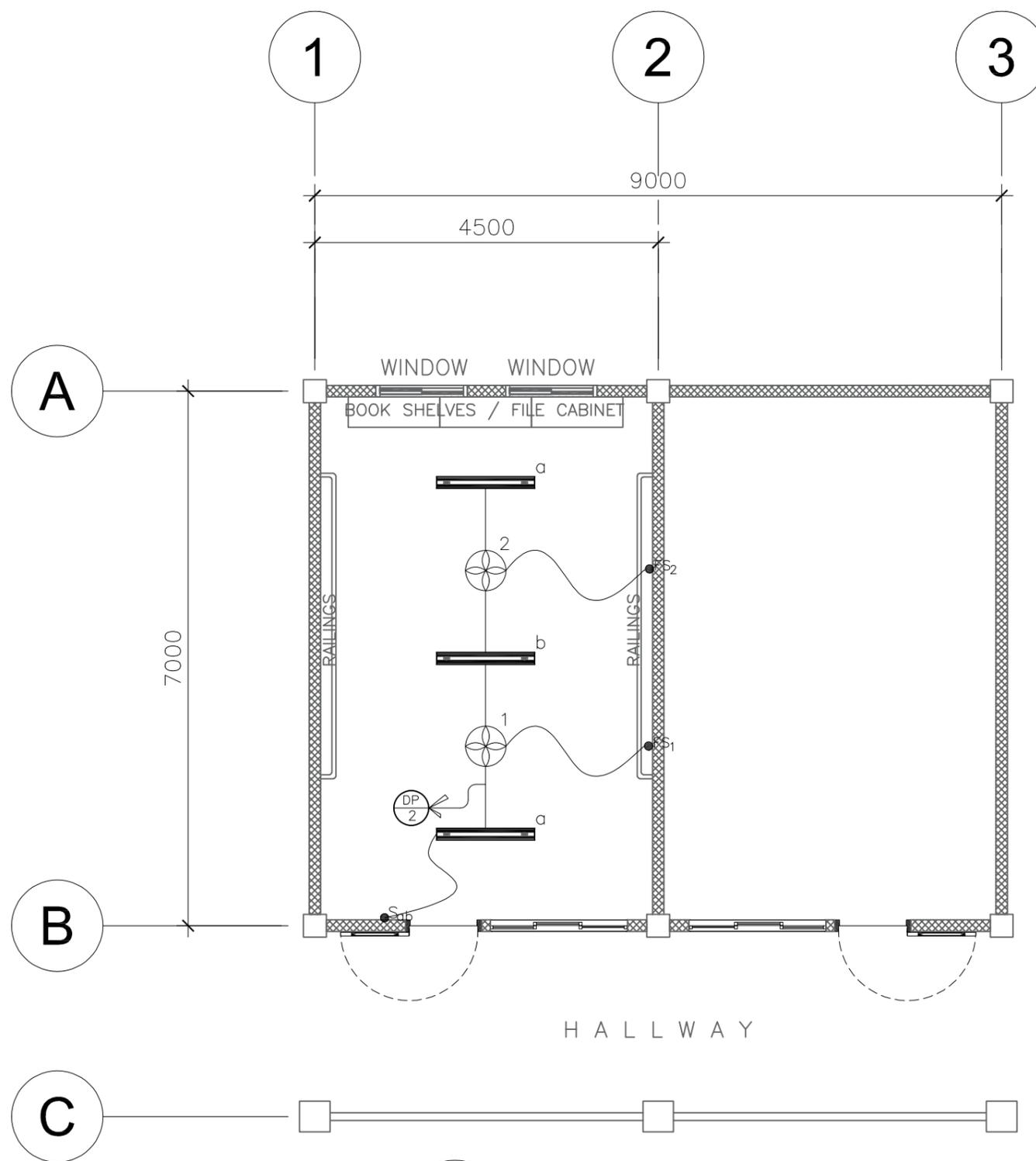
NAME OF PANEL	DP	SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE								
PANEL LOCATION	GROUND FLOOR	DP				X	5.5 mm ²	R,B	AT	30	A						
ENCLOSURE TYPE	NEMA 1					G	3.5 mm ²	GREEN	AF	50	A						
SYSTEM	230 V, 1PH, 60HZ					TYPE	THHN		P	2	P						
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE			CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE				
1	CONVENIENCE OUTLET	900	230	3.91	AB	BC	CD	3 ϕ	AT	AF	P	X	G				
6	LIGHTING OUTLET ORBIT FAN	480	230	2.09					20	50	2	2-	3.5 mm ²	1-	3.5 mm ²	20 mm ϕ	PVC
TOTAL		1380		6.00													
FOR FEEDER CURRENT					FOR MAIN FEEDER SIZE					FOR MAIN BREAKER SIZE							
3PH + 1PH LOAD		=	6.00	A						THHN		CONDUIT					
25 % CONTINUOUS LOAD		=	0.00	A						X	G						
HIGHEST CURRENT MOTOR		=	0.00	A						2-		5.5 mm ²	1-	3.5 mm ²	20 mm ϕ	RSC	
DEMAND FACTOR		=	80%							AT		30					
TOTAL LOAD CURRENT		=	4.80	A						AF		50					
										P		2					

LEGEND

SYMBOL	DESCRIPTION
S _a	ONE GANG DEVICE SWITCH
S _{ab}	TWO GANG DEVICE SWITCH
SF	FAN CONTROL SWITCH
	ORBIT FAN OUTLET
	RACEWAY CONDUIT CONCEALED IN CEILING
	RACEWAY CONDUIT CONCEALED UNDER FLOOR
	PANELBOARD, MARKED AS "MDP/DPA/DPB"
	CKT. BREAKER, RATING AS INDICATED
	DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
	CIRCUIT HOMERUN
	SERVICE METER
	SERVICE ENTRANCE



1
E-2 POWER LAYOUT
7.0 X 9.0 MTS.



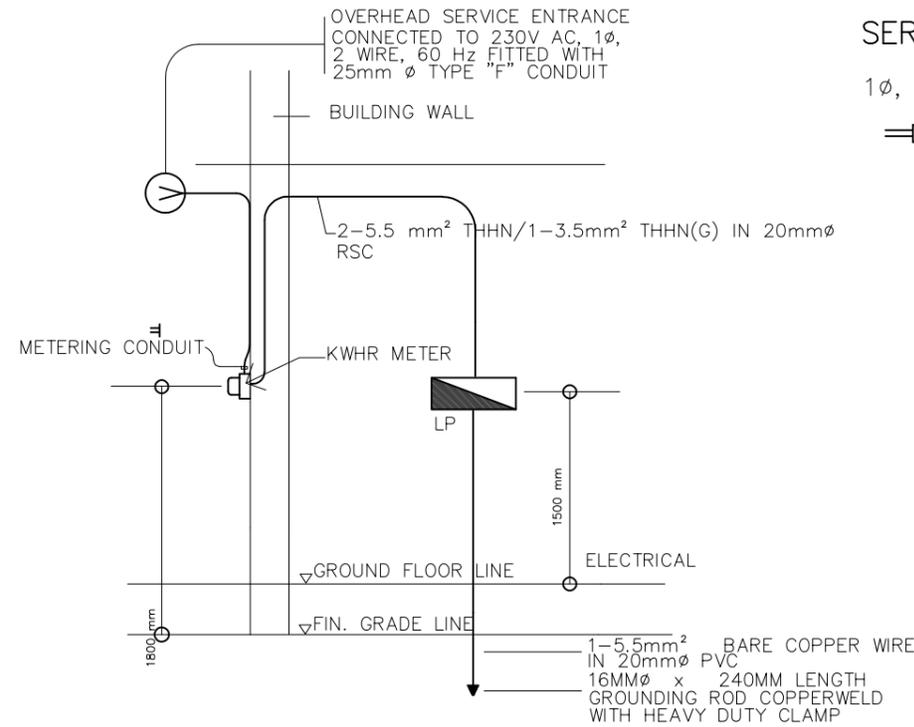
LAMP TO BE USED :
 2 x 36W T5 LED LIGHTS with mirror reflector (220v-240v,50Hz) Box Type Fixture

1
E-3 LIGHTING LAYOUT
7.0 X 9.0 MTS.

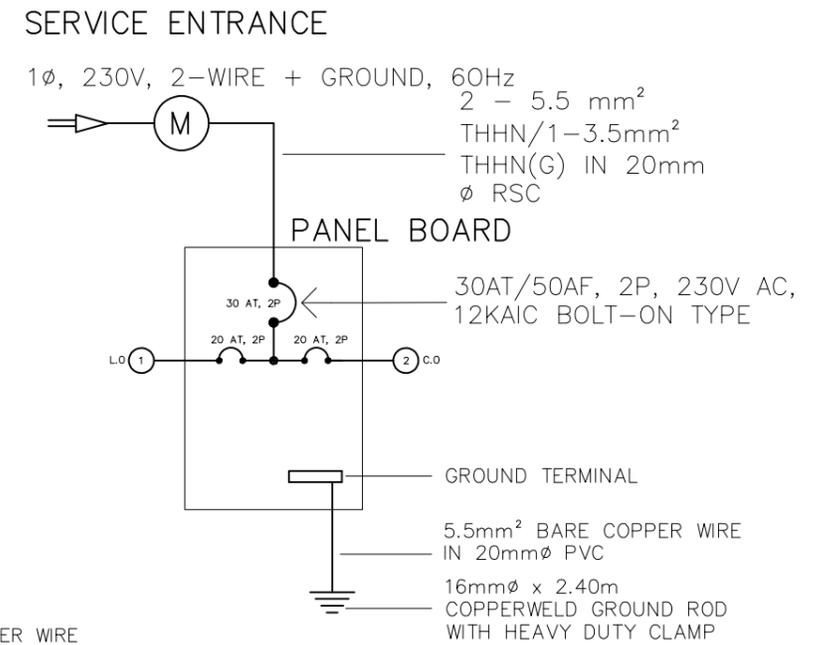
GENERAL NOTES

- ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC). THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
- THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE + GROUND 230 V AC, 60 Hz.
- WIRING METHOD SHALL BE AS FOLLOWS :
 - FEEDERS AND RISERS - RIGID STEEL CONDUIT
 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT BRANCH CKT., & AUXILIARY THICK WALL
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 20mm ϕ TRADE/NOMINAL SIZE.
- ALL OUTLET BOXES SHALL BE POLYVINYL CHLORIDE (PVC) TYPE WITH FACTORY KNOCKOUTS.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
- EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
 - LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - PANELBOARD - 1.80 M ABOVE FINISH FLOOR

1 SINGLE LINE DIAGRAM E-1



2 RISER DIAGRAM E-1

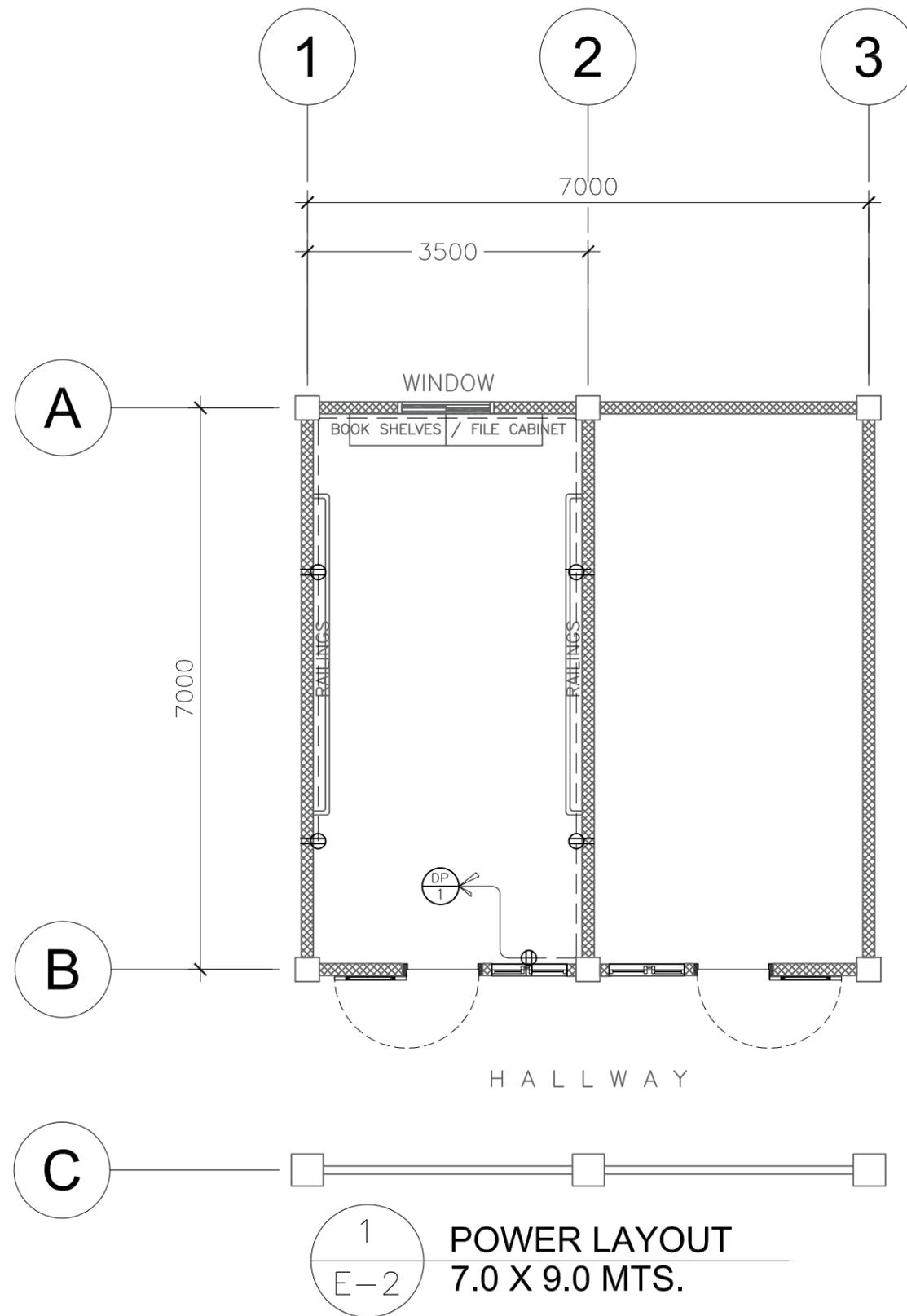


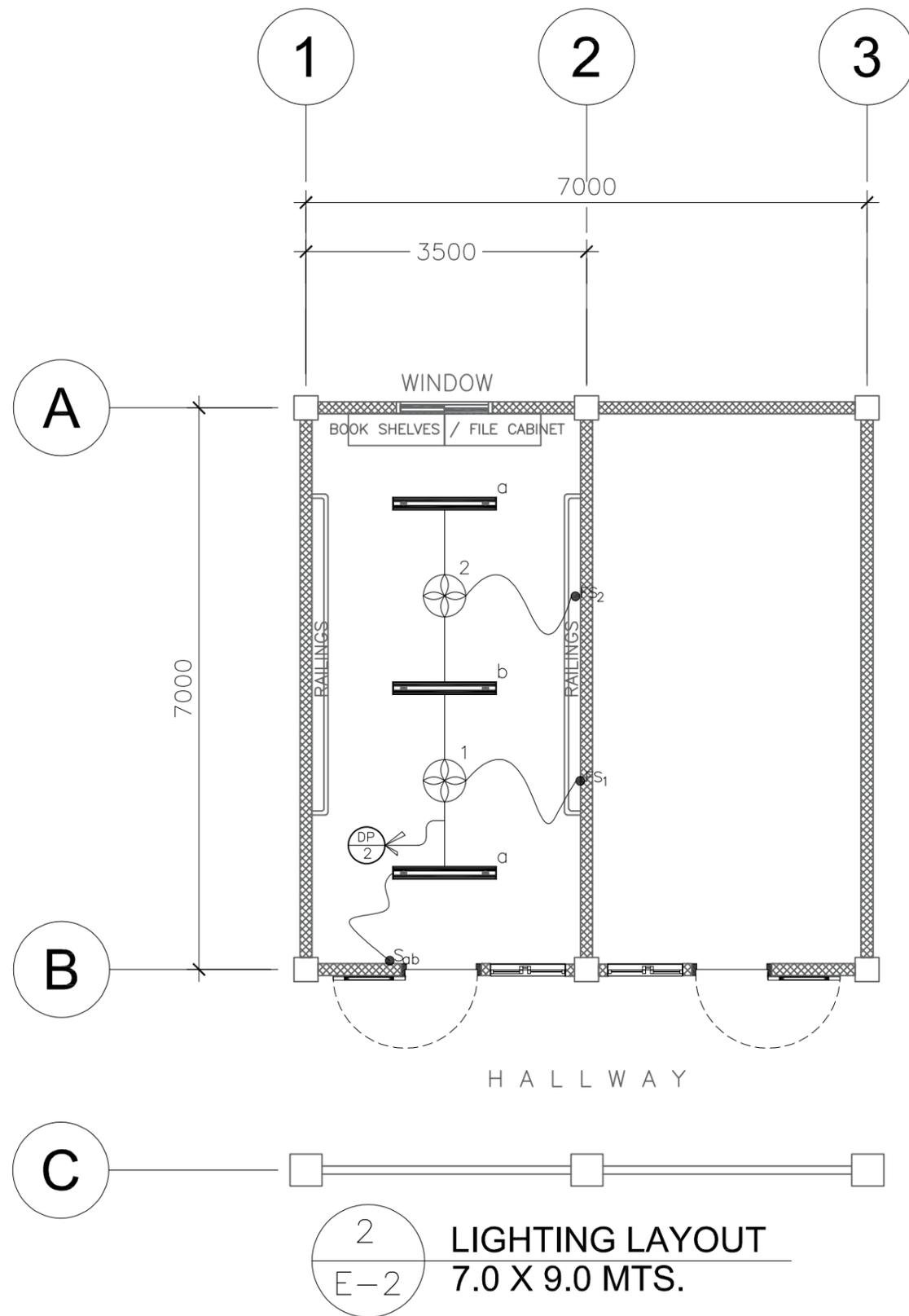
3 SCHEDULE OF LOAD E-1

NAME OF PANEL	DP	SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE								
PANEL LOCATION	GROUND FLOOR	DP				X	5.5 mm ²	R,B	AT	30	A						
ENCLOSURE TYPE	NEMA 1					G	3.5 mm ²	GREEN	AF	50	A						
SYSTEM	230 V, 1PH, 60HZ				TYPE	THHN	P	2	P								
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE			CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE				
1	CONVENIENCE OUTLET	900	230	3.91	AB	BC	CD	3 ϕ	AT	AF	P	X	G				
6	LIGHTING OUTLET ORBIT FAN	510	230	2.22					20	50	2	2-	3.5 mm ²	1-	3.5 mm ²	20 mm ϕ	PVC
TOTAL		1410		6.13													
FOR FEEDER CURRENT											FOR MAIN FEEDER SIZE						
3PH + 1PH LOAD		=	6.13	A							THHN						
25 % CONTINUOUS LOAD		=	0.00	A							X	G	CONDUIT				
HIGHEST CURRENT MOTOR		=	0.00	A							2-		5.5 mm ²	1-	3.5 mm ²	20 mm ϕ	RSC
DEMAND FACTOR		=	80%														
TOTAL LOAD CURRENT		=	4.90	A													
FOR MAIN BREAKER SIZE																	
											AT		30				
											AF		50				
											P		2				

LEGEND

SYMBOL	DESCRIPTION
S _a	ONE GANG DEVICE SWITCH
S _{ab}	TWO GANG DEVICE SWITCH
SF	FAN CONTROL SWITCH
	ORBIT FAN OUTLET
	RACEWAY CONDUIT CONCEALED IN CEILING
	RACEWAY CONDUIT CONCEALED UNDER FLOOR
	PANELBOARD, MARKED AS "MDP/DPA/DPB"
	CKT. BREAKER, RATING AS INDICATED
	DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
	CIRCUIT HOMERUN
	SERVICE METER
	SERVICE ENTRANCE





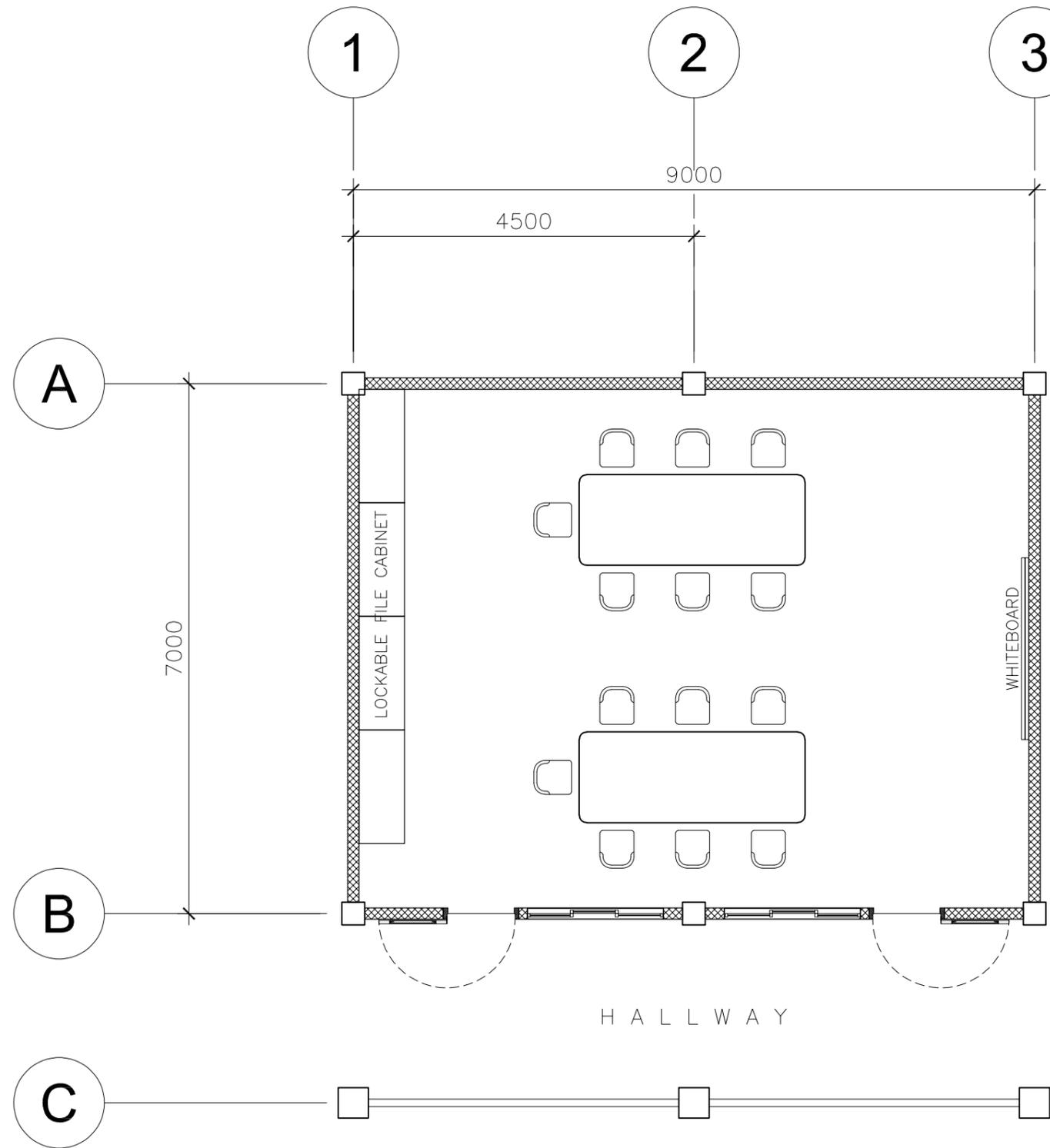
LAMP TO BE USED :

 2 x 36W T5 LED LIGHTS with mirror reflector (220v-240v, 50Hz) Box Type Fixture

2 LIGHTING LAYOUT
E-2 7.0 X 9.0 MTS.

The bridging room is intended for

- activities for a group of LWS's moving from self-contained class to inclusive class
- activities for LWD's to join big group with typical learners
- specific intervention for learners who need intensive activities like reading, math computations



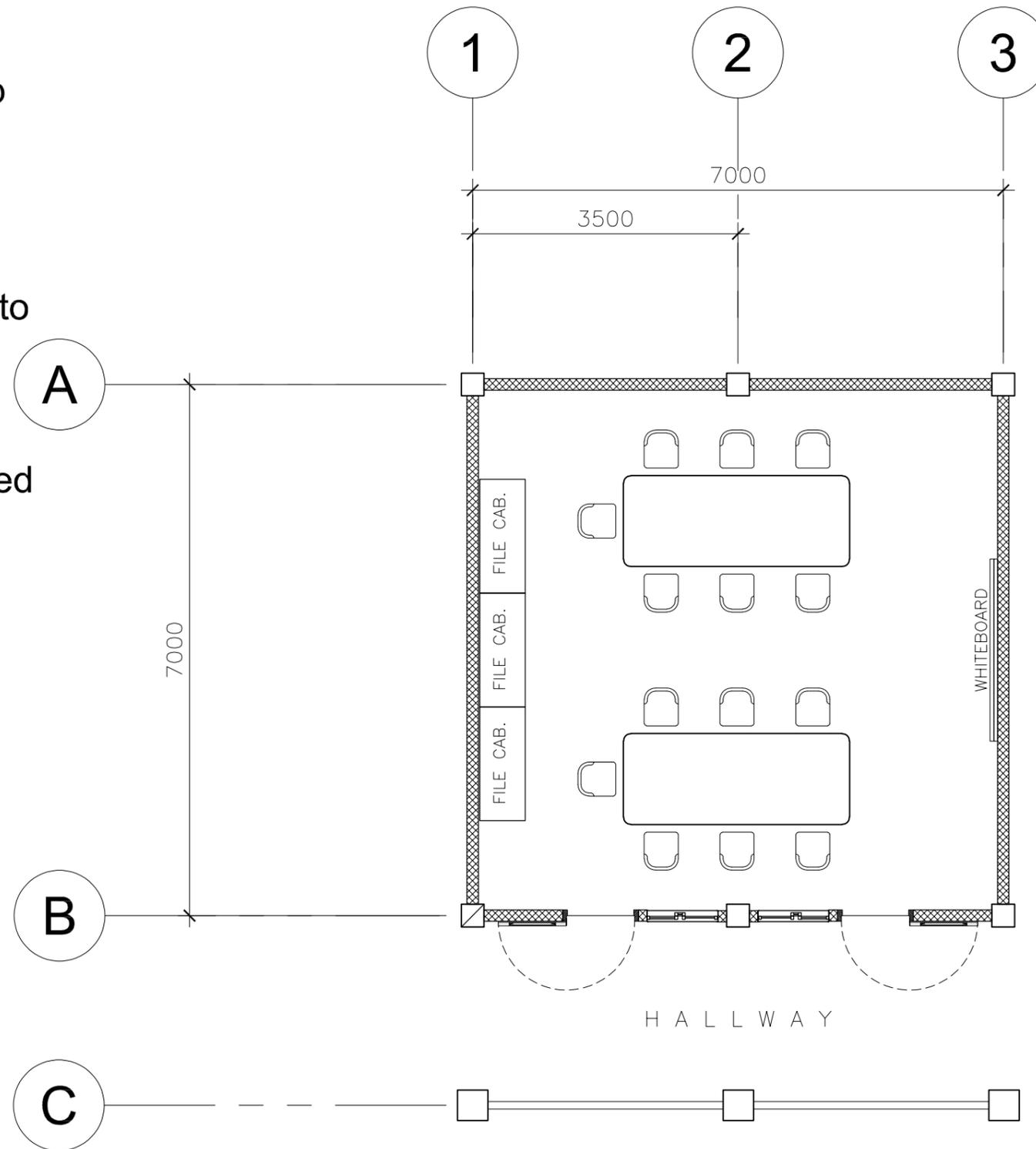
FLOOR LAYOUT
7.0 X 9.0 MTS.

BASIC FEATURES

1. Preferably near the School Guidance Counselor's Office
2. Regular classroom (7.0 x 9.0mts or 7.0 x 7.0mts)
3. Lockable file cabinet
4. White board
5. Rectangular table with chairs for learners
6. Teacher's Chair

The bridging room is intended for

- activities for a group of LWS's moving from self-contained class to inclusive class
- activities for LWD's to join big group with typical learners
- specific intervention for learners who need intensive activities like reading, math computations



FLOOR LAYOUT
7.0 X 7.0 MTS.

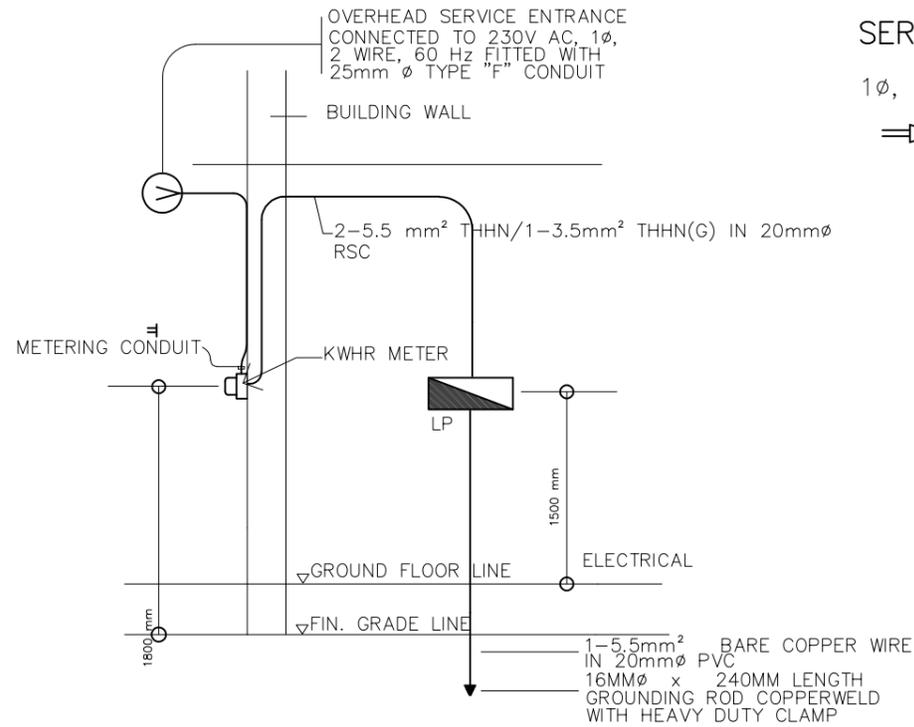
BASIC FEATURES

1. Preferably near the School Guidance Counselor's Office
2. Regular classroom (7.0 x 9.0mts or 7.0 x 7.0mts)
3. Lockable file cabinet
4. White board
5. Rectangular table with chairs for learners
6. Teacher's Chair

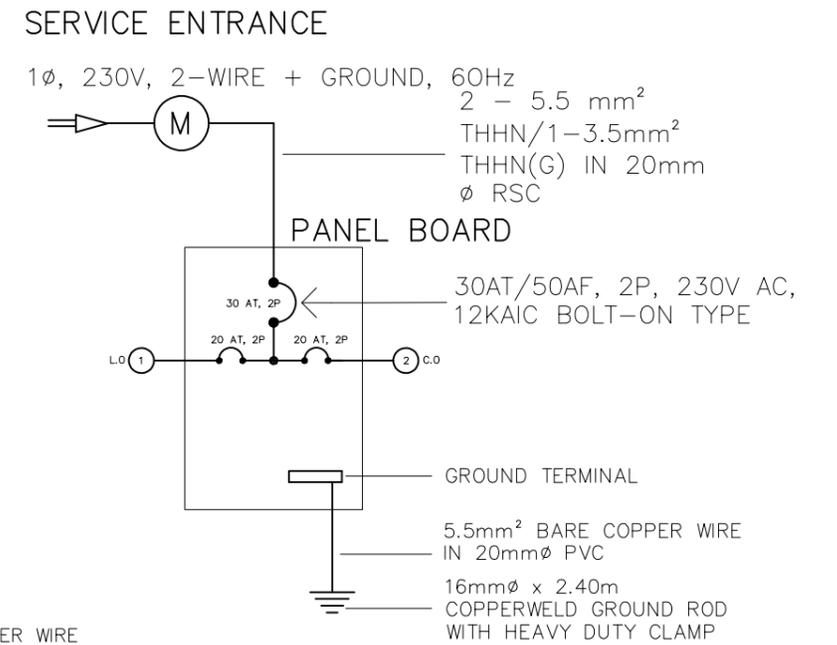
GENERAL NOTES

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- THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE + GROUND 230 V AC, 60 Hz.
- WIRING METHOD SHALL BE AS FOLLOWS :
 - FEEDERS AND RISERS - RIGID STEEL CONDUIT
 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT BRANCH CKT., & AUXILIARY THICK WALL
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 20mm Ø TRADE/NOMINAL SIZE.
- ALL OUTLET BOXES SHALL BE POLYVINYL CHLORIDE (PVC) TYPE WITH FACTORY KNOCKOUTS.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
- EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
 - LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - PANELBOARD - 1.80 M ABOVE FINISH FLOOR

1 SINGLE LINE DIAGRAM



2 RISER DIAGRAM

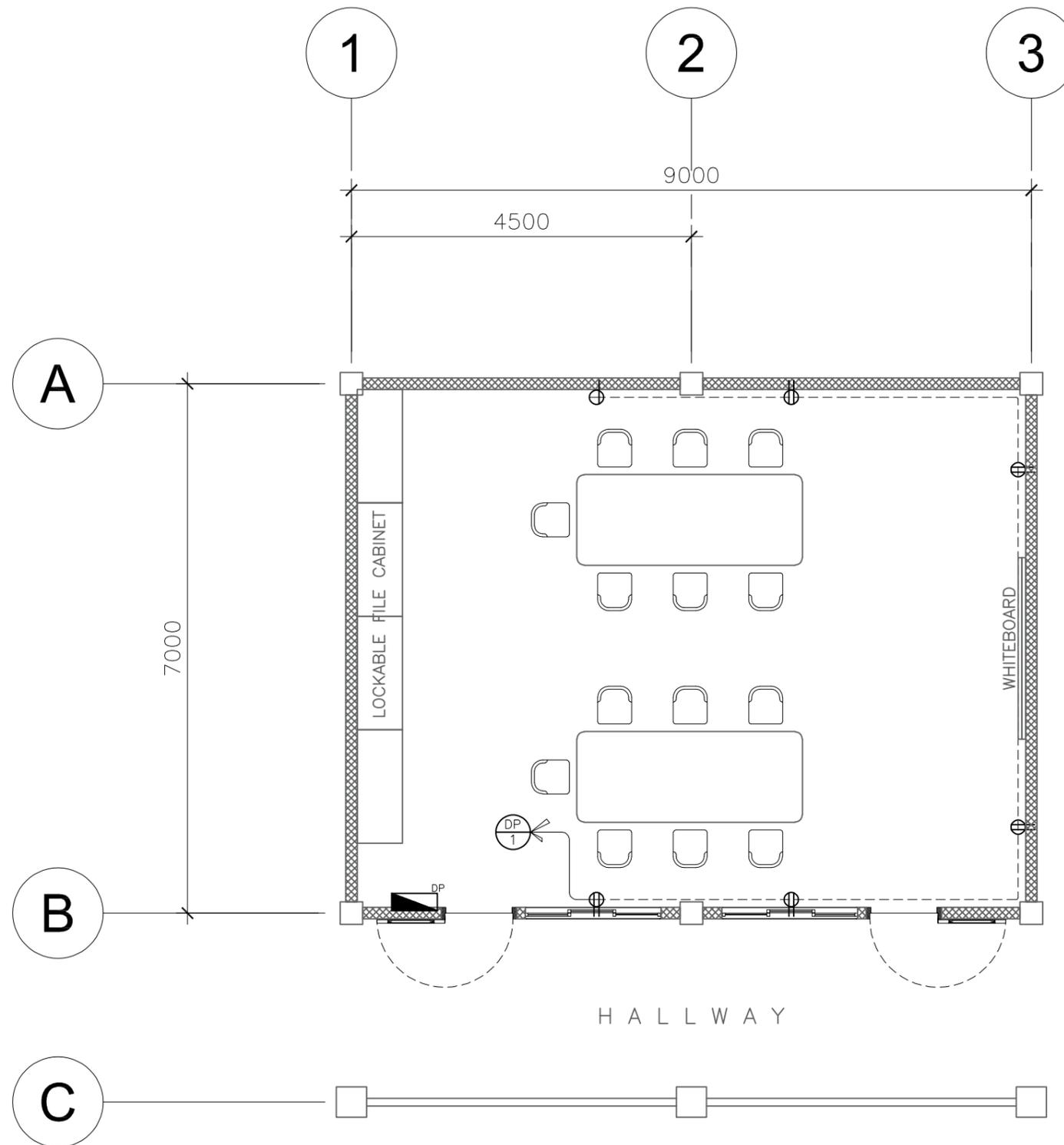


3 SCHEDULE OF LOAD

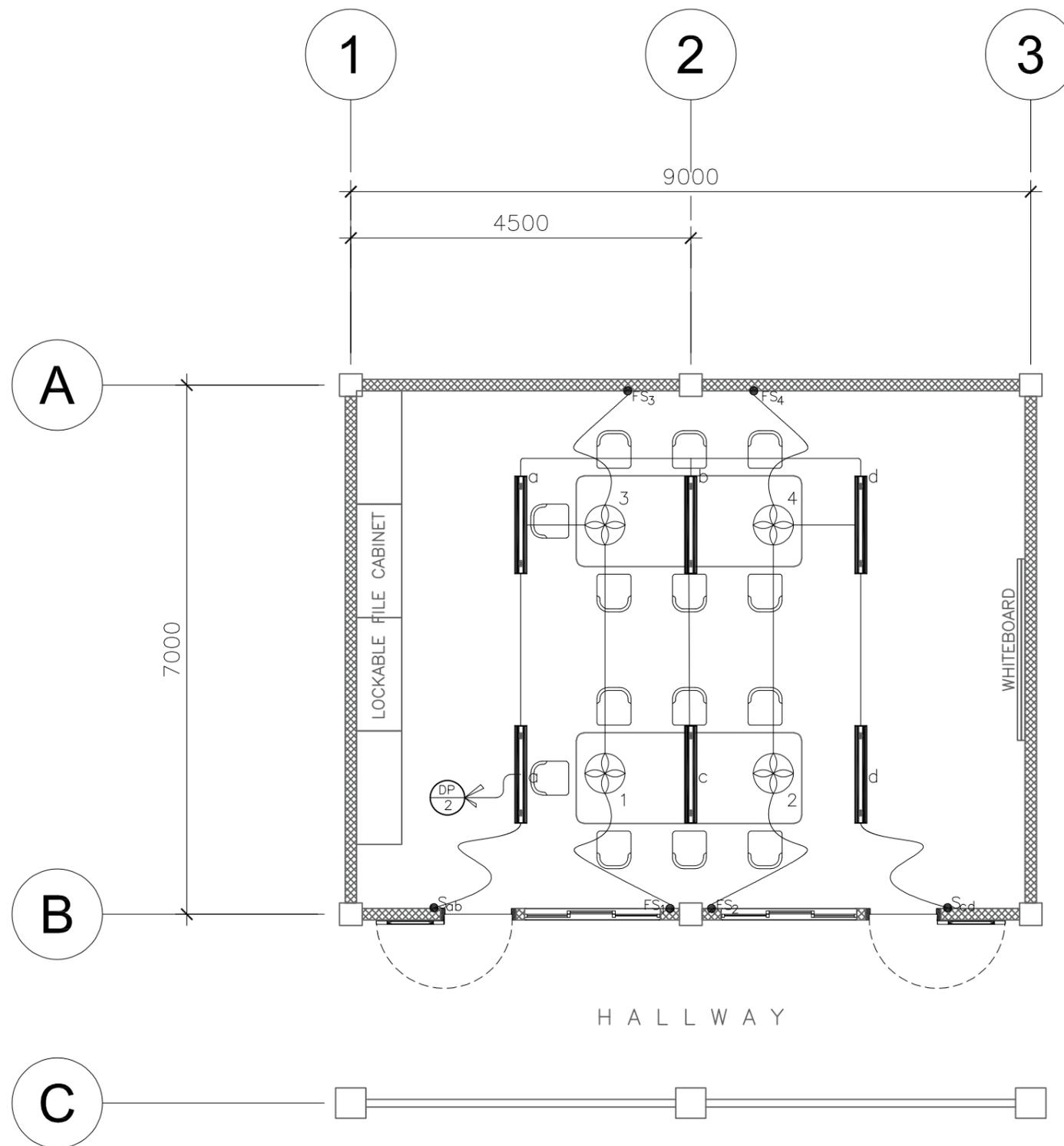
NAME OF PANEL		DP		SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE				
PANEL LOCATION		GROUND FLOOR		DP				X	5.5 mm ²	R,B	AT	30	A		
ENCLOSURE TYPE		NEMA 1						G	3.5 mm ²	GREEN	AF	50	A		
SYSTEM		230 V, 1PH, 60HZ						TYPE	THHN	P	2	P			
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE				CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE	
1	CONVENIENCE OUTLET	1080	230	4.70	AB	BC	CD	3Ø	AT	AF	P	X	G		
6	LIGHTING OUTLET ORBIT FAN	1020	230	4.43					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mmØ PVC	
TOTAL		2100		9.13											
FOR FEEDER CURRENT		3PH + 1PH LOAD = 9.13 A		25 % CONTINUOUS LOAD = 0.00 A		HIGHEST CURRENT MOTOR = 0.00 A		DEMAND FACTOR = 80%		TOTAL LOAD CURRENT = 7.30 A		FOR MAIN FEEDER SIZE			
												THHN			
												X G CONDUIT			
												2- 5.5 mm ² 1- 3.5 mm ² 20 mmØ RSC			
												FOR MAIN BREAKER SIZE			
												AT 30			
												AF 50			
												P 2			

LEGEND

SYMBOL	DESCRIPTION
S _a	ONE GANG DEVICE SWITCH
S _{ab}	TWO GANG DEVICE SWITCH
S _F	FAN CONTROL SWITCH
⊕	ORBIT FAN OUTLET
---	RACEWAY CONDUIT CONCEALED IN CEILING
---	RACEWAY CONDUIT CONCEALED UNDER FLOOR
⊕	PANELBOARD, MARKED AS "MDP/DPA/DPB"
⊕	CKT. BREAKER, RATING AS INDICATED
⊕	DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
⊕	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
⊕	CIRCUIT HOMERUN
⊕	SERVICE METER
⊕	SERVICE ENTRANCE



1
E-2 POWER LAYOUT
7.0 X 9.0 MTS.



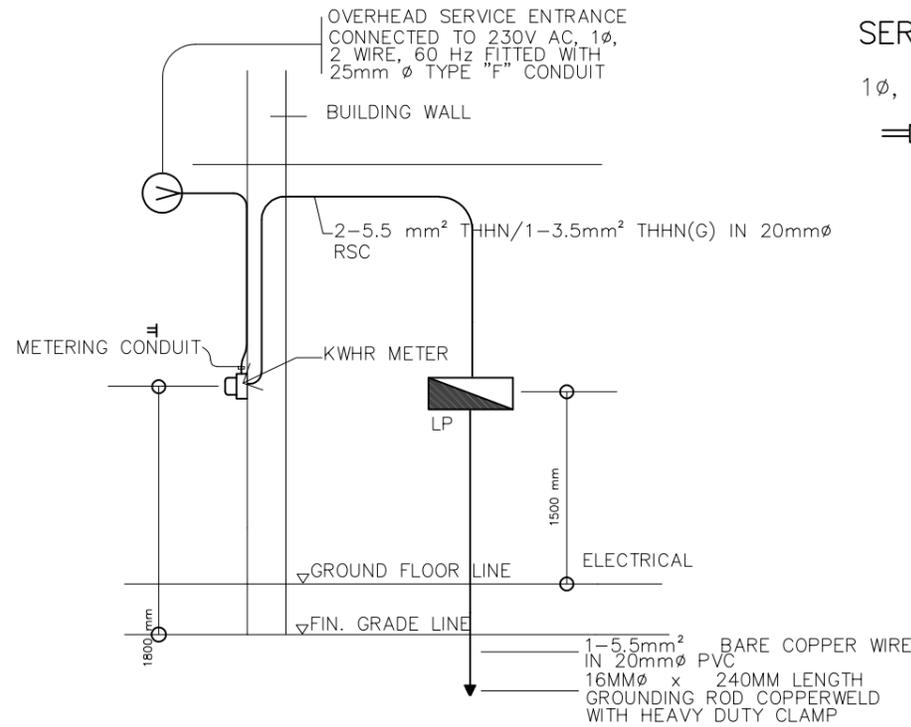
2
E-2 LIGHTING LAYOUT
7.0 X 9.0 MTS.

LAMP TO BE USED :
 2 x 36W T5 LED LIGHTS with mirror reflector (220v-240v,50Hz) Box Type Fixture

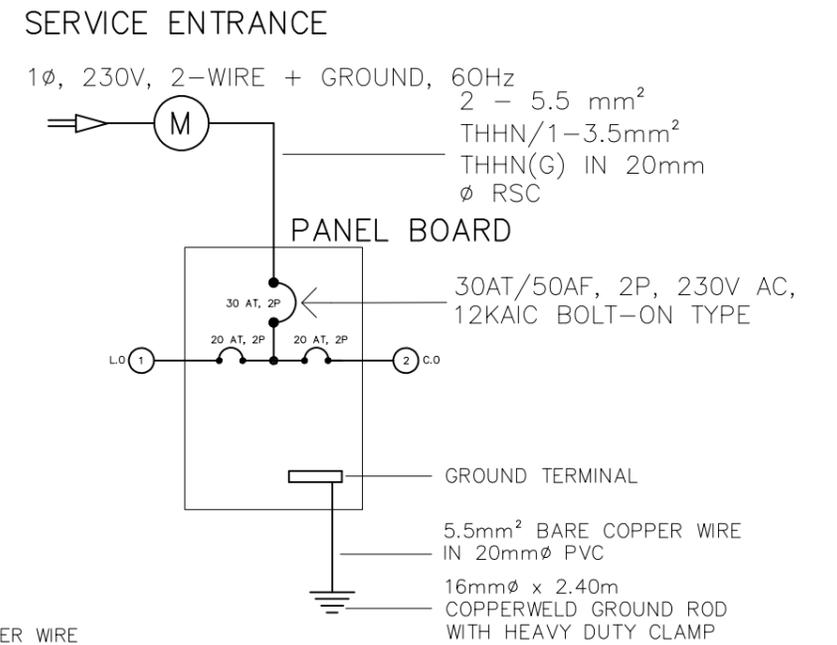
GENERAL NOTES

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- THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE + GROUND 230 V AC, 60 Hz.
- WIRING METHOD SHALL BE AS FOLLOWS :
 - FEEDERS AND RISERS - RIGID STEEL CONDUIT
 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT BRANCH CKT., & AUXILIARY THICK WALL
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 20mm ϕ TRADE/NOMINAL SIZE.
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 - LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - PANELBOARD - 1.80 M ABOVE FINISH FLOOR

1 SINGLE LINE DIAGRAM



2 RISER DIAGRAM



3 SCHEDULE OF LOAD

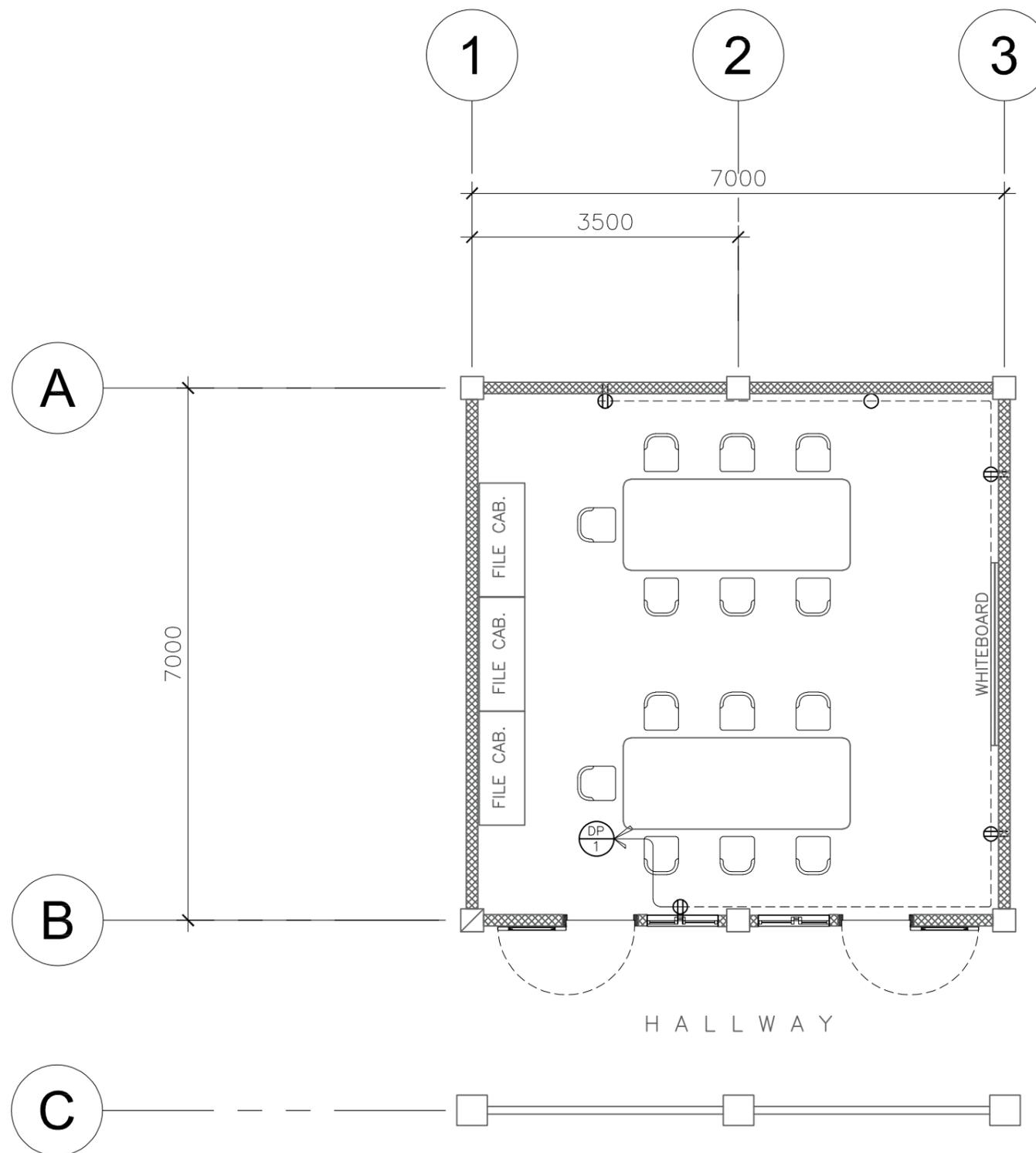
NAME OF PANEL	DP	SCHEDULE OF LOADS	MAIN FEEDER SIZE	MAIN BREAKER SIZE
PANEL LOCATION	GROUND FLOOR		X 5.5 mm ² R,B	AT 30 A
ENCLOSURE TYPE	NEMA 1	DP	G 3.5 mm ² GREEN	AF 50 A
SYSTEM	230 V, 1PH, 60HZ		P	P 2 P

CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE			CIRCUIT BREAKER	WIRE SIZE (THHN)		CONDUIT SIZE		
					AB	BC	CD		3 ϕ	AT		AF	P
1	CONVENIENCE OUTLET	1080	230	4.70				20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mm ϕ PVC
6	LIGHTING OUTLET ORBIT FAN	740	230	3.22				20	50	2	2- 3.5 mm ²		20 mm ϕ PVC
TOTAL		1820		7.91									

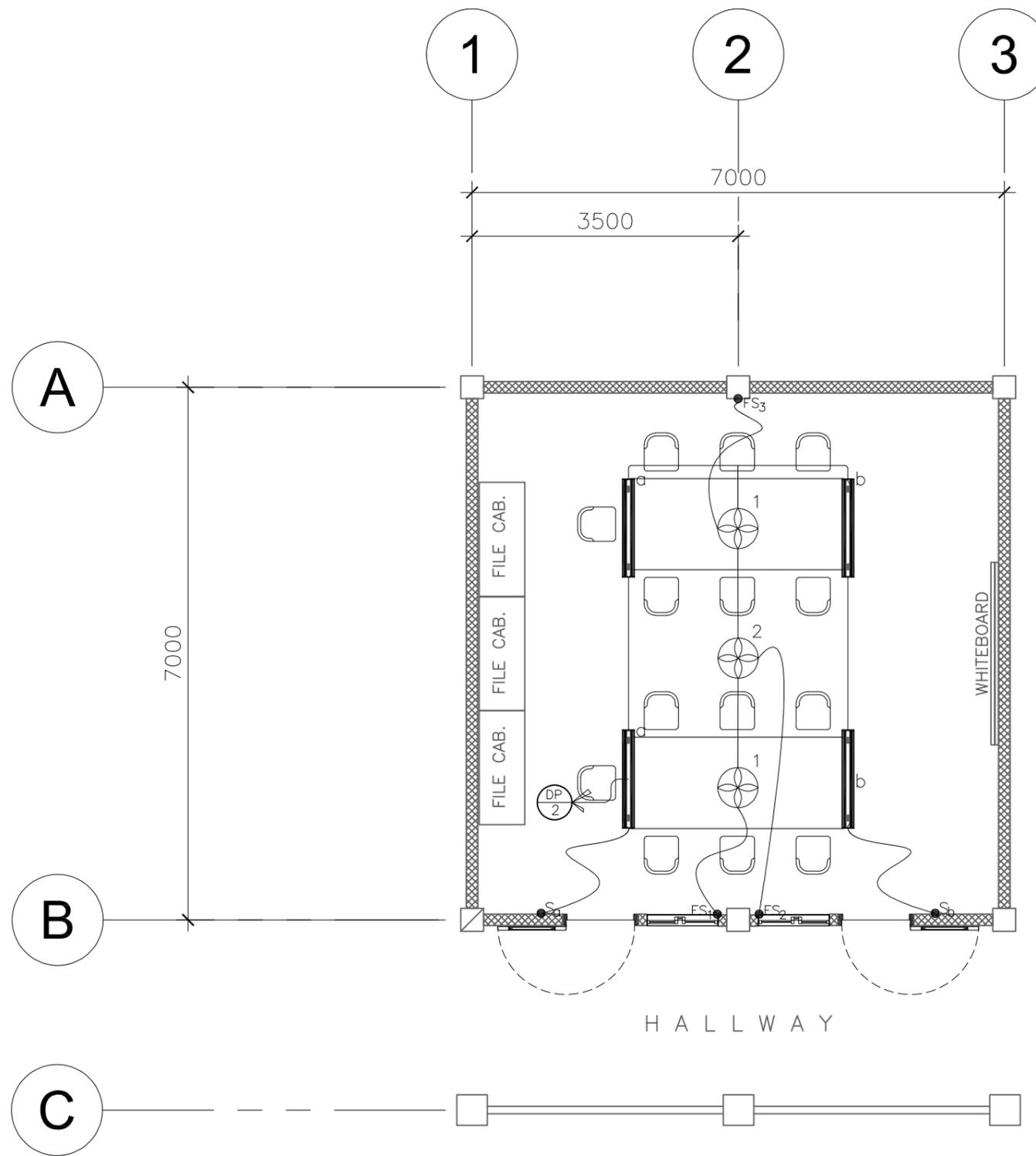
FOR FEEDER CURRENT				FOR MAIN FEEDER SIZE				FOR MAIN BREAKER SIZE											
3PH + 1PH LOAD	=	7.91	A	THHN				CONDUIT											
25 % CONTINUOUS LOAD	=	0.00	A																
HIGHEST CURRENT MOTOR	=	0.00	A	X				G											
DEMAND FACTOR	=	80%																	
TOTAL LOAD CURRENT	=	6.33	A	AT				30											
												AF				50			

LEGEND

SYMBOL	DESCRIPTION
S _a	ONE GANG DEVICE SWITCH
S _{ab}	TWO GANG DEVICE SWITCH
SF	FAN CONTROL SWITCH
(Symbol)	ORBIT FAN OUTLET
(Symbol)	RACEWAY CONDUIT CONCEALED IN CEILING
(Symbol)	RACEWAY CONDUIT CONCEALED UNDER FLOOR
(Symbol)	PANELBOARD, MARKED AS "MDP/DPA/DPB"
(Symbol)	CKT. BREAKER, RATING AS INDICATED
(Symbol)	DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
(Symbol)	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
(Symbol)	CIRCUIT HOMERUN
(Symbol)	SERVICE METER
(Symbol)	SERVICE ENTRANCE



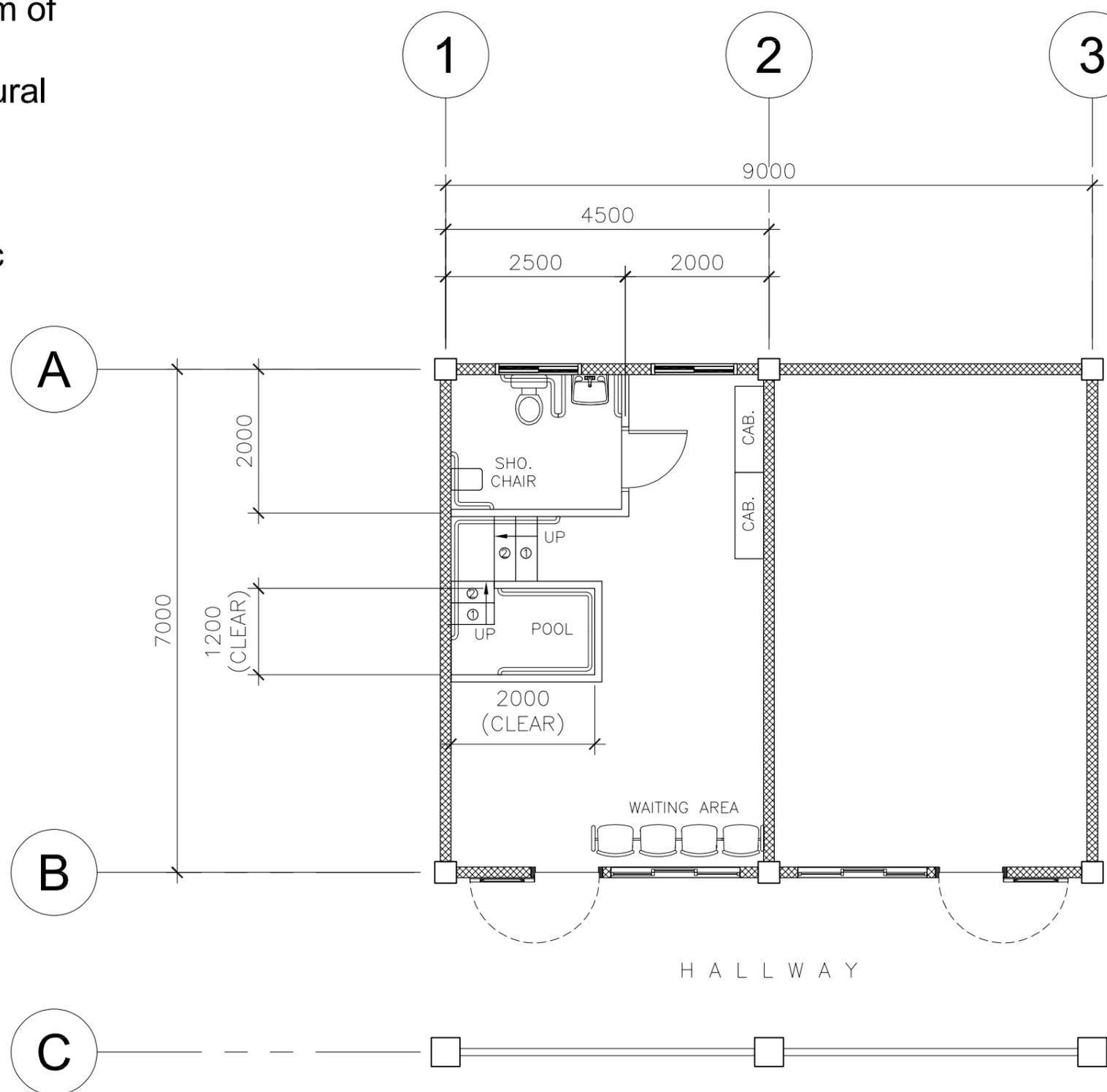
1
E-2 POWER LAYOUT
7.0 X 7.0 MTS.



2 LIGHTING LAYOUT
E-2 7.0 X 7.0 MTS.

LAMP TO BE USED :
 2 x 36W T5 LED LIGHTS with mirror reflector (220v-240v,50Hz) Box Type Fixture

Hydrotherapy is a form of physiotherapy which makes use of the natural buoyancy, heat, and resistance of water to help bring about a number of therapeutic effects.

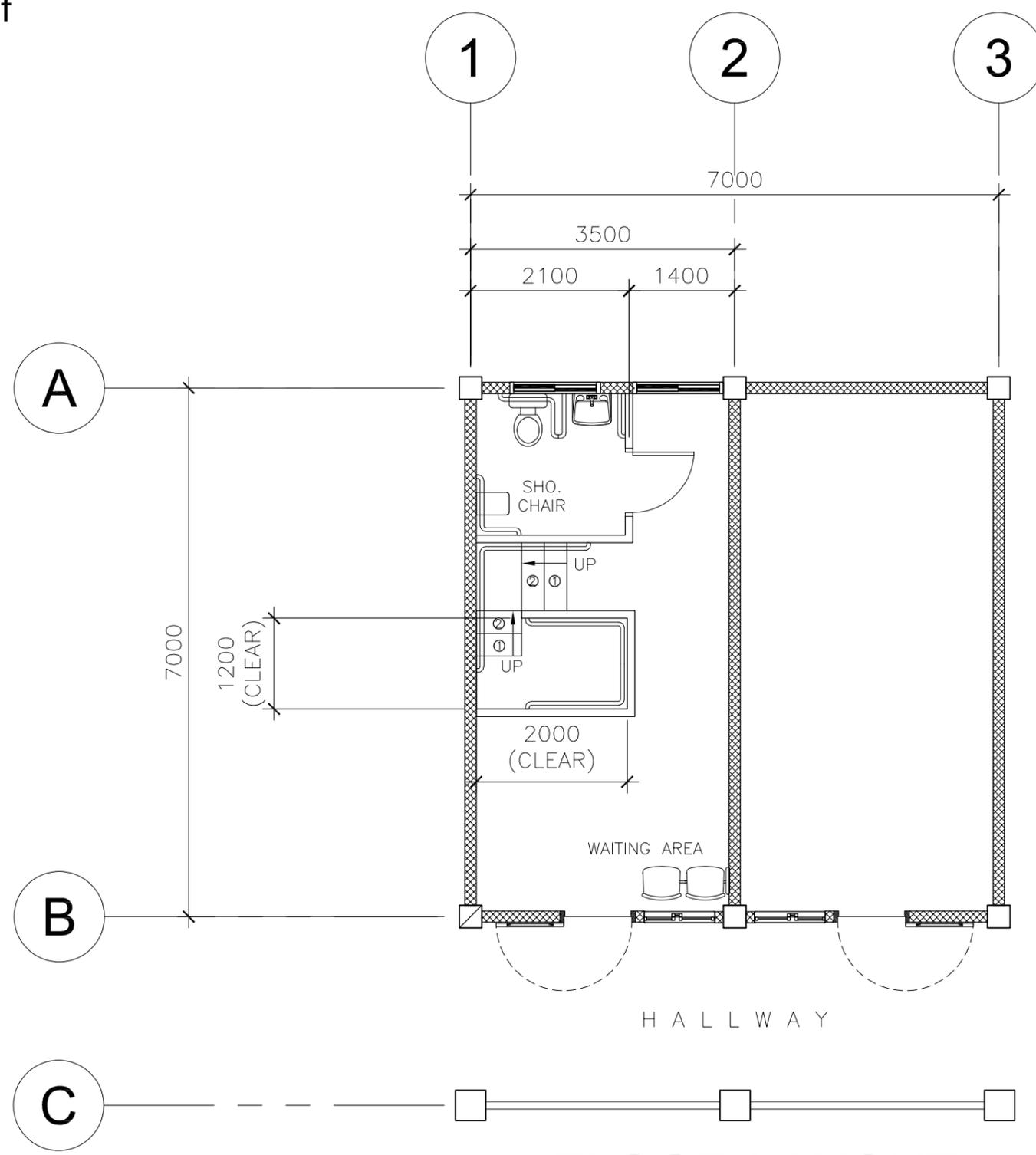


FLOOR LAYOUT
7.0 X 9.0 MTS.

BASIC FEATURES

1. Pool with water, ½ of the ½ of 7x9 standard size of a classroom
2. Pool
 - Size (1.2m clear x 2m clear)
 - Depth of water at least 2 feet
 - two step down
 - Stainless steel railings on sides
 - Provision for 2 faucets
 - Provision for clean out
3. A small comfort room with bowl and lavatory with handrails and shower chair to be used by the child when changing his/her clothes for the therapy. If possible, there is a shower chair for LWDs.
4. Flotation therapy aid and exercise equipment
5. In-pool equipment, walking rails and pool ramps
6. Cabinet for swimming equipment
7. Walking rails and pool ramp
8. Non-slip indoor floor mat
9. Benches for waiting area for parents
10. Walking rails around the room
11. Provision for water heater

Hydrotherapy is a form of physiotherapy which makes use of the natural buoyancy, heat, and resistance of water to help bring about a number of therapeutic effects.



FLOOR LAYOUT
7.0 X 7.0 MTS.

BASIC FEATURES

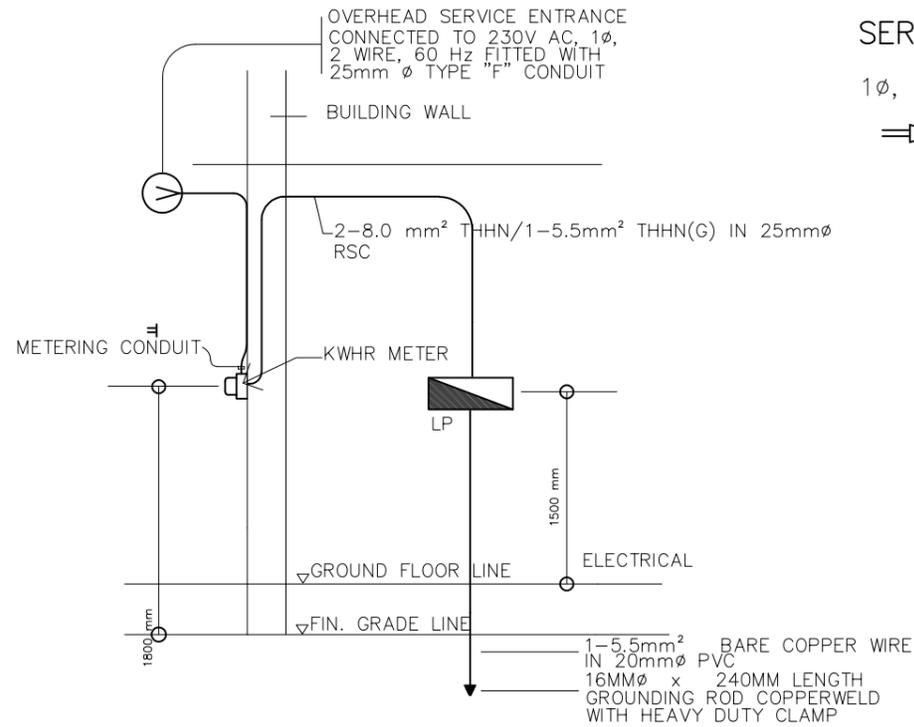
1. Pool with water, ½ of the ½ of 7x9 standard size of a classroom
2. Pool

3. A small comfort room with bowl and lavatory with handrails and shower chair to be used by the child when changing his/her clothes for the therapy. If possible, there is a shower chair for LWDs.
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6. Cabinet for swimming equipment
7. Walking rails and pool ramp
8. Non-slip indoor floor mat
9. Benches for waiting area for parents
10. Walking rails around the room
11. Provision for water heater

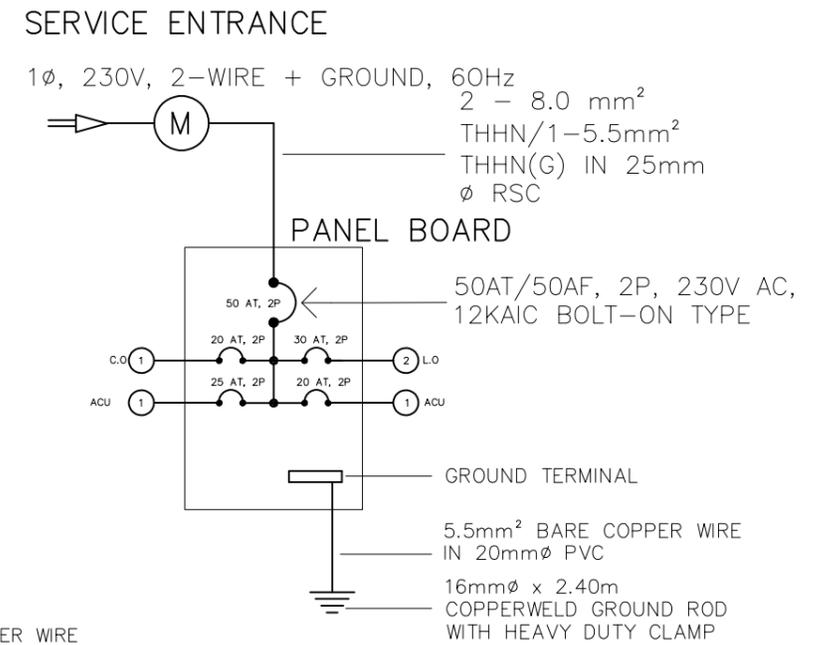
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- WIRING METHOD SHALL BE AS FOLLOWS :
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 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT
 - BRANCH CKT., & AUXILIARY THICK WALL
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 - LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - PANELBOARD - 1.80 M ABOVE FINISH FLOOR

1 SINGLE LINE DIAGRAM



2 RISER DIAGRAM

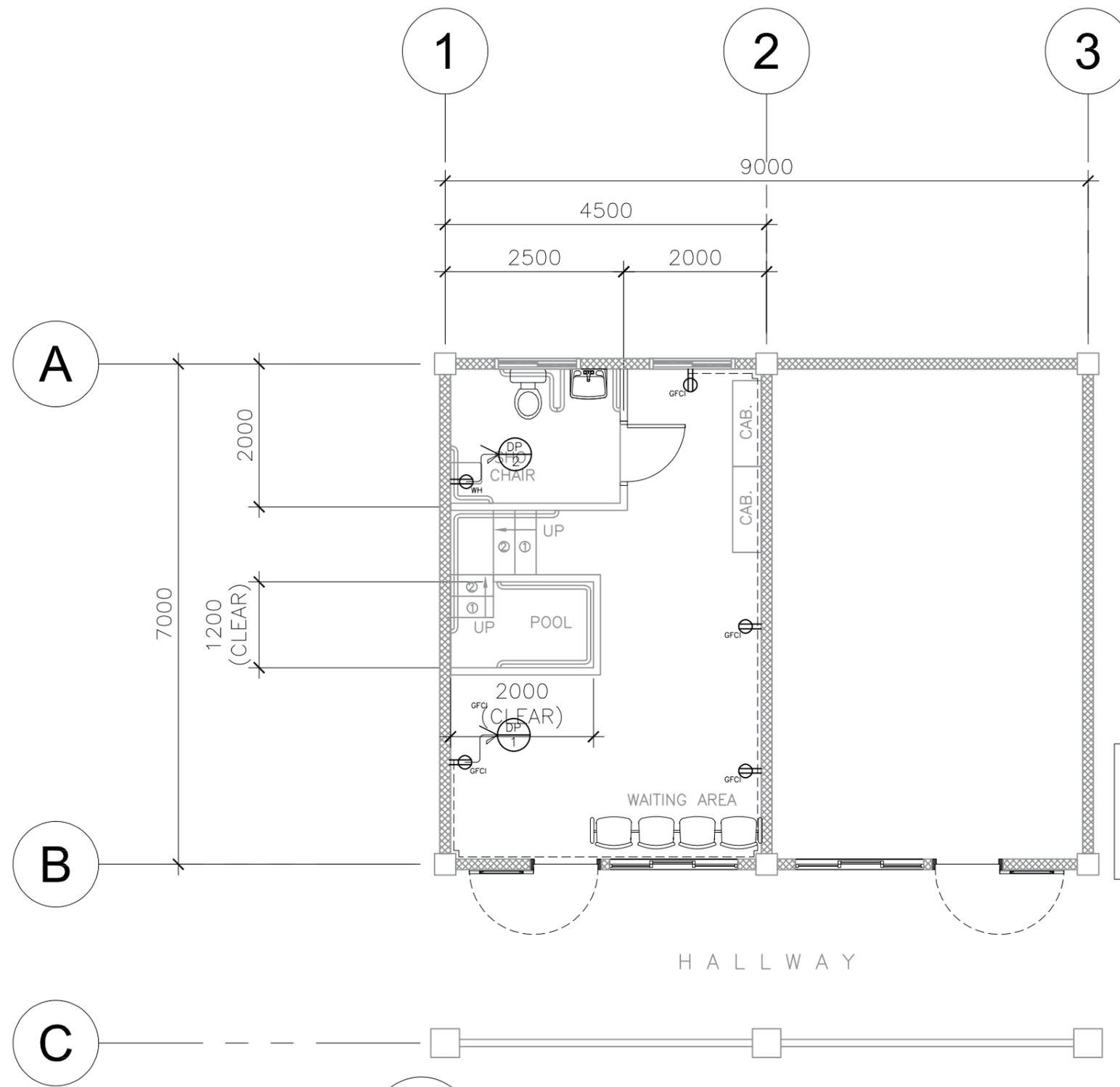


3 SCHEDULE OF LOAD

NAME OF PANEL	DP		SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE					
	PANEL LOCATION	GROUND FLOOR	DP				X	8.0 mm ²	R,B	AT	50	A			
ENCLOSURE TYPE	NEMA 1						G	5.5 mm ²	GREEN	AF	3	A			
SYSTEM	230 V, 1PH, 60HZ						TYPE	THHN		P	2	P			
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE				CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE	
1	CONVENIENCE OUTLET	720	230	3.13	AB	BC	CD	3Ø	AT	AF	P	X	G	20 mmØ	PVC
2	WATER HEATER 3.5kW	3500.6	230	15.22					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mmØ	PVC
3	LIGHTING OUTLET	400	230	1.74					30	50	2	2- 5.5 mm ²	1- 3.5 mm ²	20 mmØ	PVC
4	WATER PUMP 1.5HP	2300	230	10.00					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mmØ	PVC
TOTAL		6920.6		30.09					25	50	2	2- 5.5 mm ²	1- 3.5 mm ²	20 mmØ	PVC
FOR FEEDER CURRENT												FOR MAIN FEEDER SIZE			
3PH + 1PH LOAD		=	30.09	A											
25 % CONTINUOUS LOAD		=	2.50	A											
HIGHEST CURRENT MOTOR		=	10.00	A											
DEMAND FACTOR		=	100%												
TOTAL LOAD CURRENT		=	32.59	A											
												FOR MAIN BREAKER SIZE			
												THHN		CONDUIT	
												X	G		
												2- 8.0 mm ²	1- 5.5 mm ²	25 mmØ RSC	
												AT		50	
												AF		3	
												P		2	

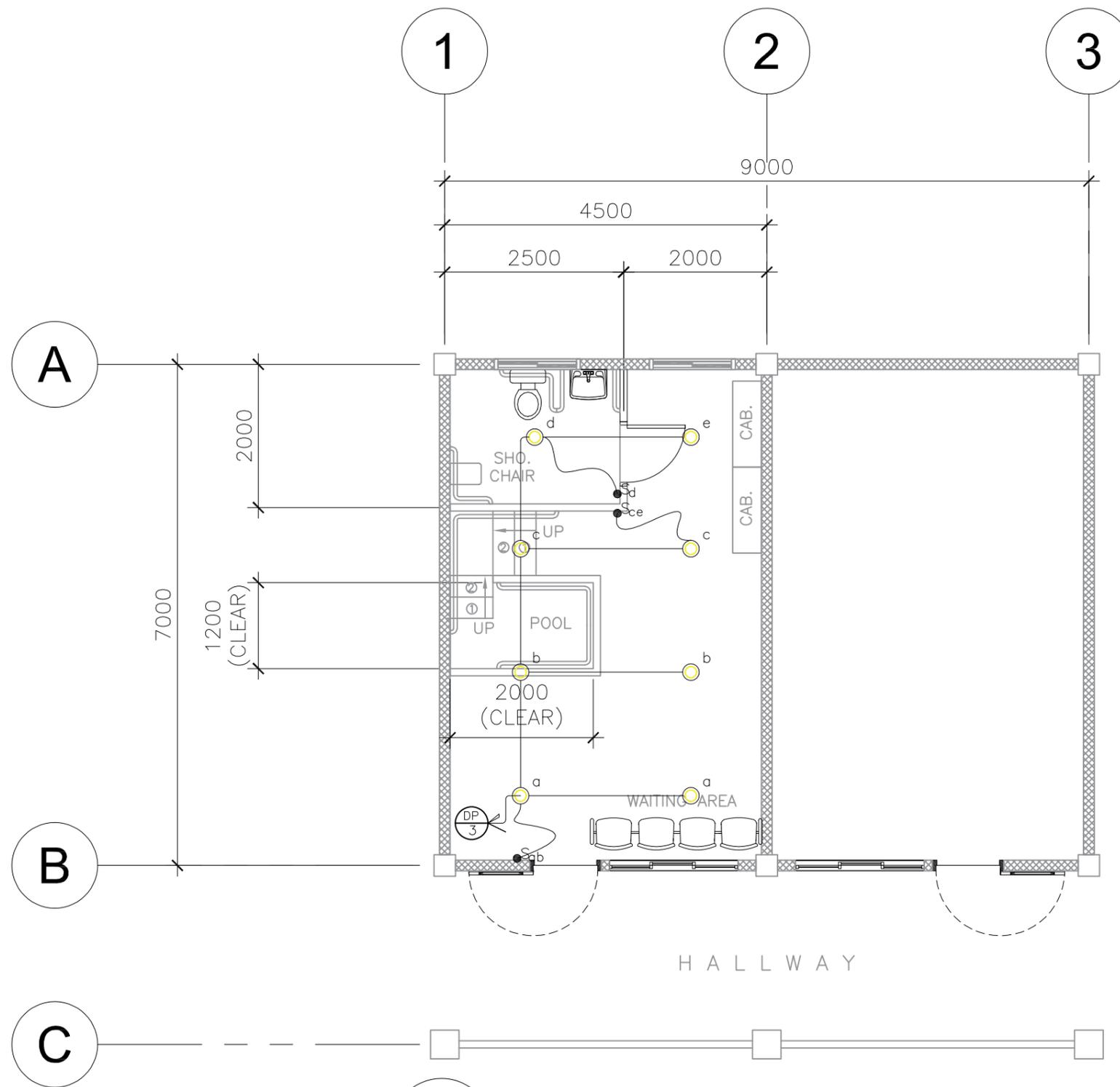
LEGEND

SYMBOL	DESCRIPTION
S _a	ONE GANG DEVICE SWITCH
S _{ab}	TWO GANG DEVICE SWITCH
SF	FAN CONTROL SWITCH
⊕	ORBIT FAN OUTLET
---	RACEWAY CONDUIT CONCEALED IN CEILING
---	RACEWAY CONDUIT CONCEALED UNDER FLOOR
⊕	PANELBOARD, MARKED AS "MDP/DPA/DPB"
⊕	CKT. BREAKER, RATING AS INDICATED
⊕	DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
⊕	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
⊕	CIRCUIT HOMERUN
⊕	SERVICE METER
⊕	SERVICE ENTRANCE



NOTE:
Ground Fault Circuit Interrupter (GFCI) Shall be install in any wet or damp location. This includes bathrooms, kitchen, basement or outdoors any where the PEC ALLOWED.

1
E-2
POWER LAYOUT
7.0 X 9.0 MTS.



LAMP TO BE USED :

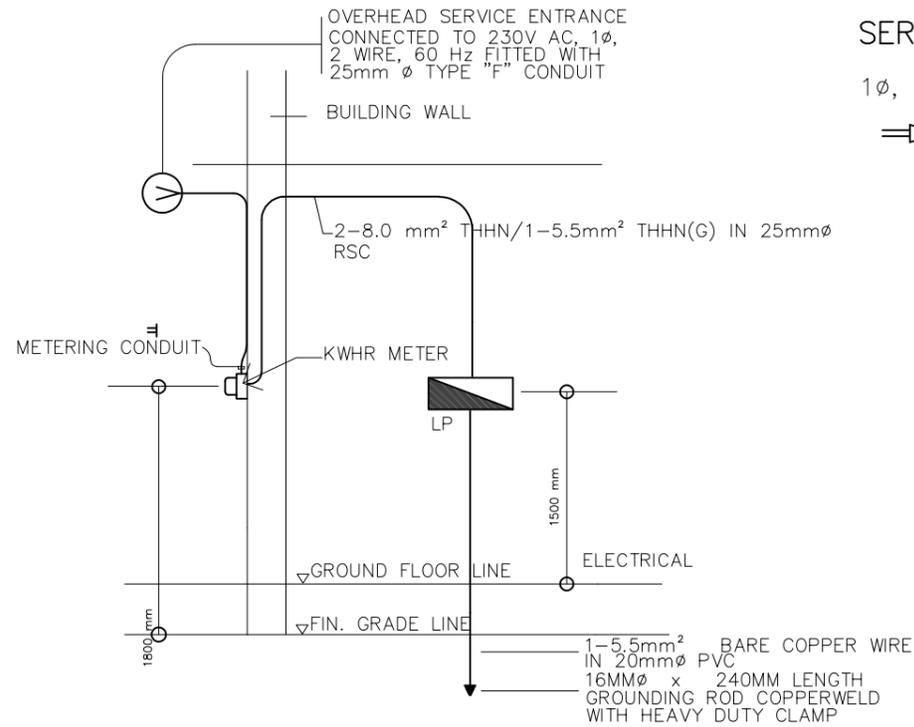
 - 18W LED Recessed Light Fixture
3500 - 4500 K / Nature White

2 LIGHTING LAYOUT
E-2 7.0 X 9.0 MTS.

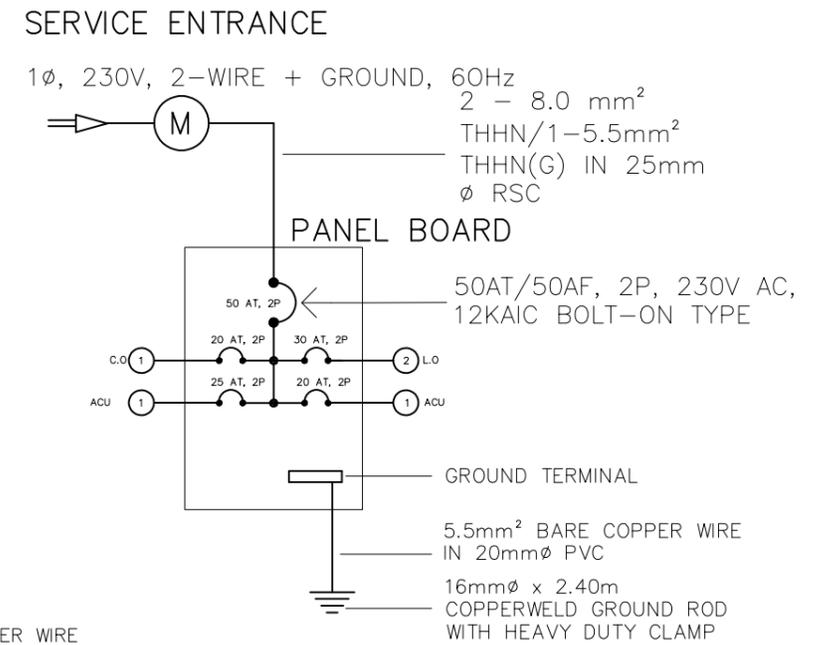
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 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT BRANCH CKT., & AUXILIARY THICK WALL
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 20mm Ø TRADE/NOMINAL SIZE.
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1 SINGLE LINE DIAGRAM



2 RISER DIAGRAM

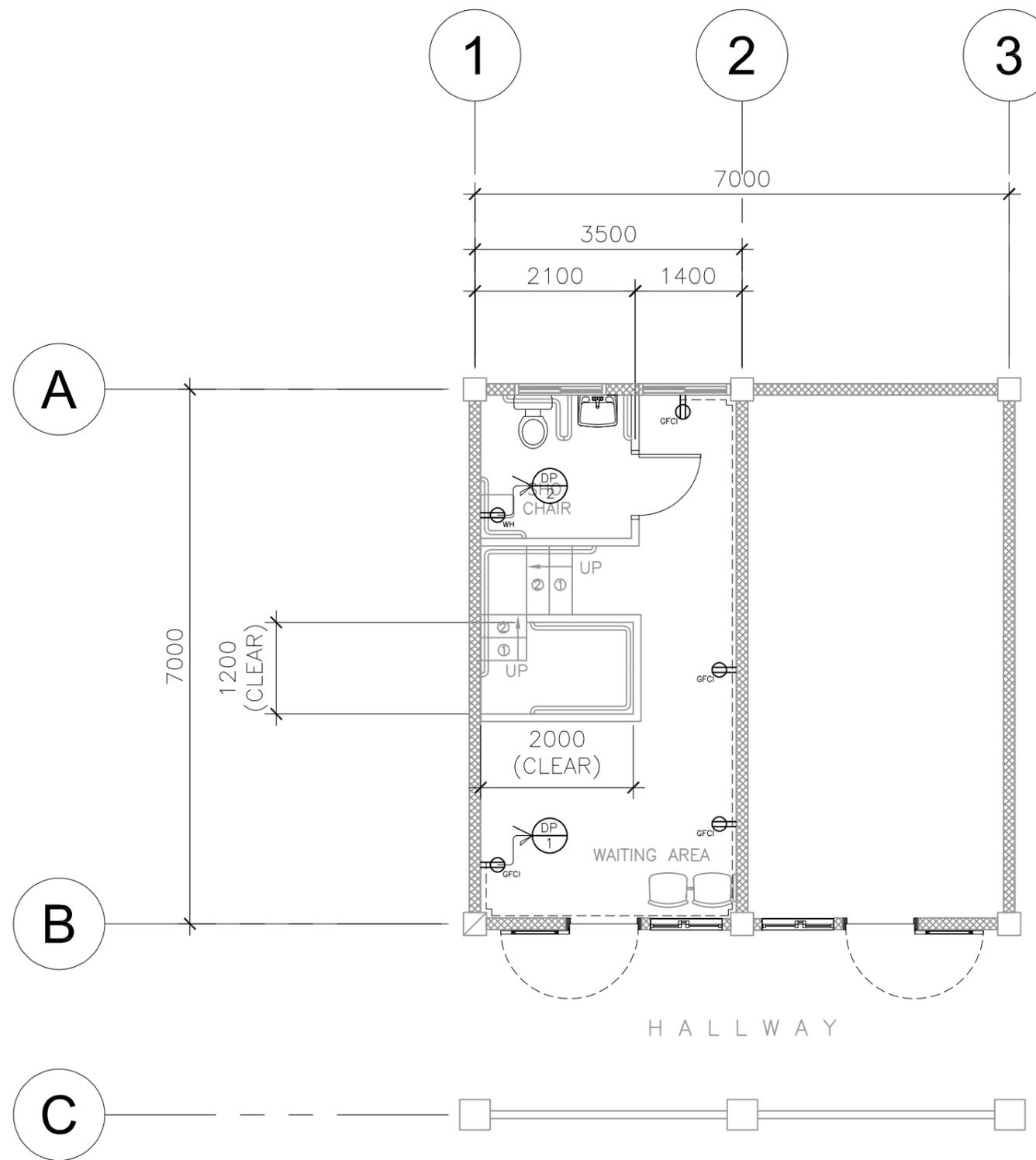


3 SCHEDULE OF LOAD

NAME OF PANEL	DP	SCHEDULE OF LOADS				MAIN FEEDER SIZE			MAIN BREAKER SIZE							
		PANEL LOCATION	GROUND FLOOR	TYPE	THHN	X	8.0 mm ²	R,B	AT	50	A					
ENCLOSURE TYPE	NEMA 1	DP				G	5.5 mm ²	GREEN	AF	3	A					
SYSTEM	230 V, 1PH, 60HZ					P			P	2	P					
CKT. NO	DESCRIPTION	VOLT-AMPERE	VOLT	AMPERE	AMPERE			CIRCUIT BREAKER			WIRE SIZE (THHN)		CONDUIT SIZE			
1	CONVENIENCE OUTLET	720	230	3.13	AB	BC	CD	3Ø	AT	AF	P	X	G			
2	WATER HEATER 3.5kW	3500.6	230	15.22					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mmØ	PVC	
3	LIGHTING OUTLET	400	230	1.74					30	50	2	2- 5.5 mm ²	1- 3.5 mm ²	20 mmØ	PVC	
4	WATER PUMP 1HP	1840	230	8.00					20	50	2	2- 3.5 mm ²	1- 3.5 mm ²	20 mmØ	PVC	
TOTAL		6460.6		28.09												
FOR FEEDER CURRENT												FOR MAIN FEEDER SIZE				
3PH + 1PH LOAD		=	28.09	A								THHN				
25 % CONTINUOUS LOAD		=	2.00	A								X	G	CONDUIT		
HIGHEST CURRENT MOTOR		=	8.00	A								2- 8.0 mm ²		1- 5.5 mm ²	25 mmØ	RSC
DEMAND FACTOR		=	100%									FOR MAIN BREAKER SIZE				
TOTAL LOAD CURRENT		=	30.09	A								AT	50			
												AF	3			
												P	2			

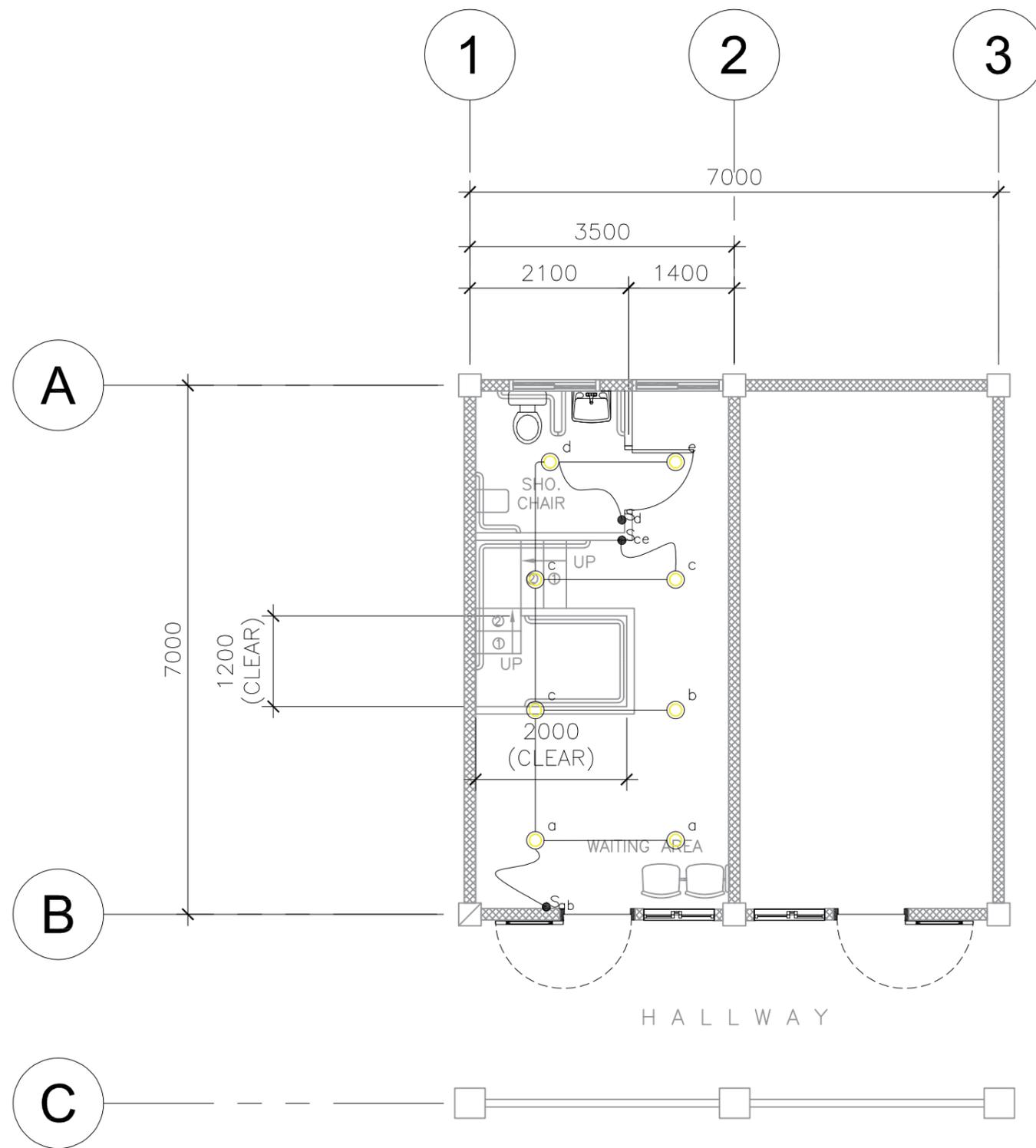
LEGEND

SYMBOL	DESCRIPTION
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S _{ab}	TWO GANG DEVICE SWITCH
SF	FAN CONTROL SWITCH
⊕	ORBIT FAN OUTLET
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---	RACEWAY CONDUIT CONCEALED UNDER FLOOR
⊕	PANELBOARD, MARKED AS "MDP/DPA/DPB"
⊕	CKT. BREAKER, RATING AS INDICATED
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⊕	SPECIAL CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, (RANGE, REF, OTHER HEATING AND COOLING EQUIPMENT)
⊕	CIRCUIT HOMERUN
⊕	SERVICE METER
⊕	SERVICE ENTRANCE



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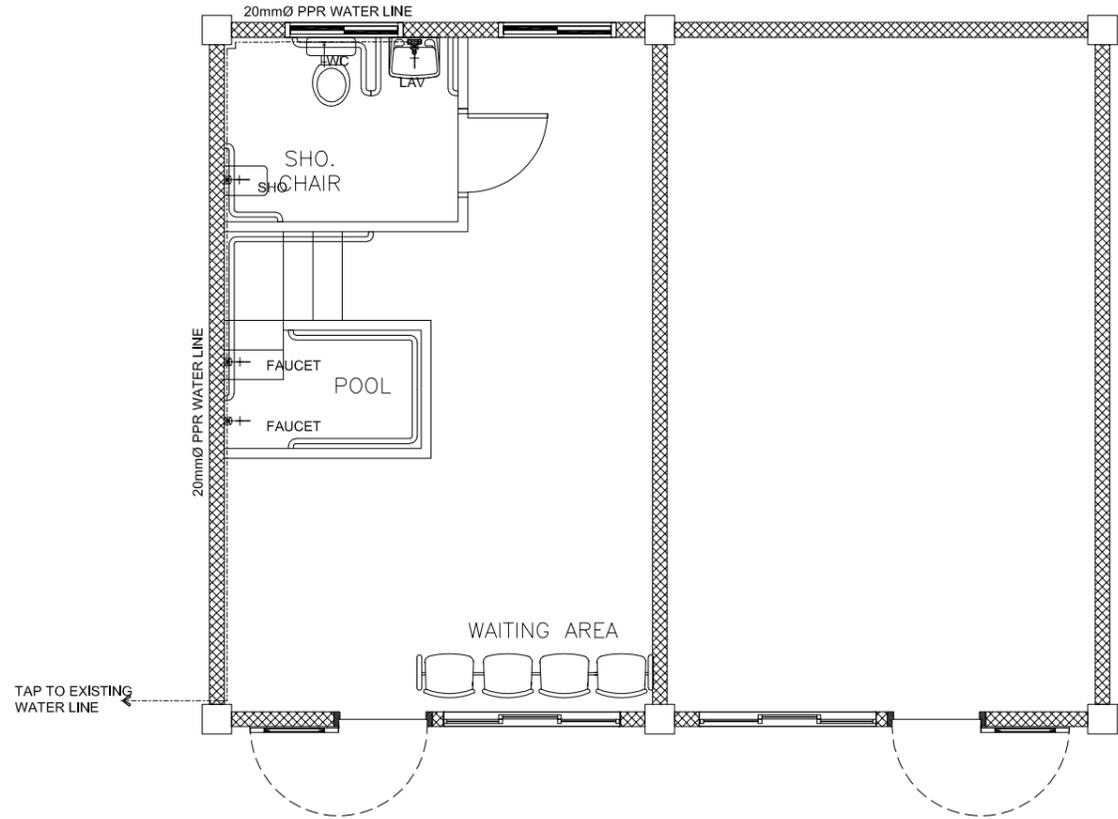
1
E-2 POWER LAYOUT
7.0 X 9.0 MTS.



LAMP TO BE USED :

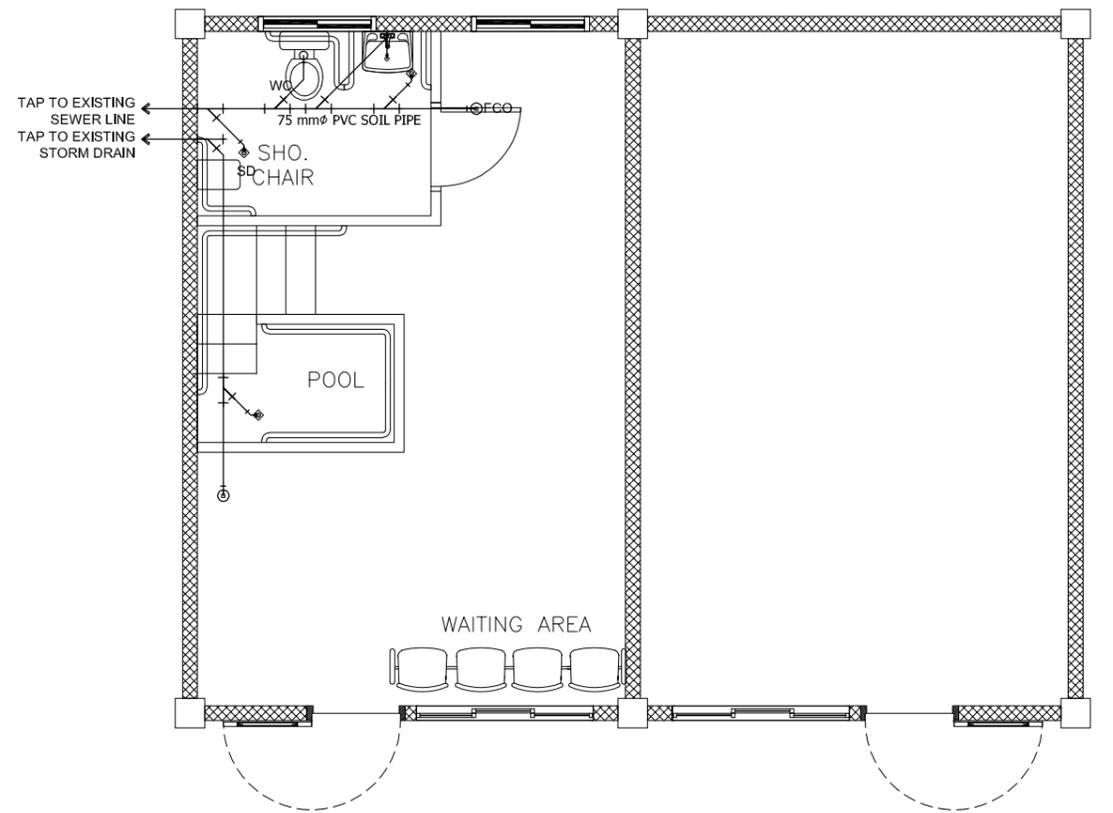
 - 18W LED Recessed Light Fixture
3500 - 4500 K / Nature White

2 LIGHTING LAYOUT
E-2 7.0 X 9.0 MTS.



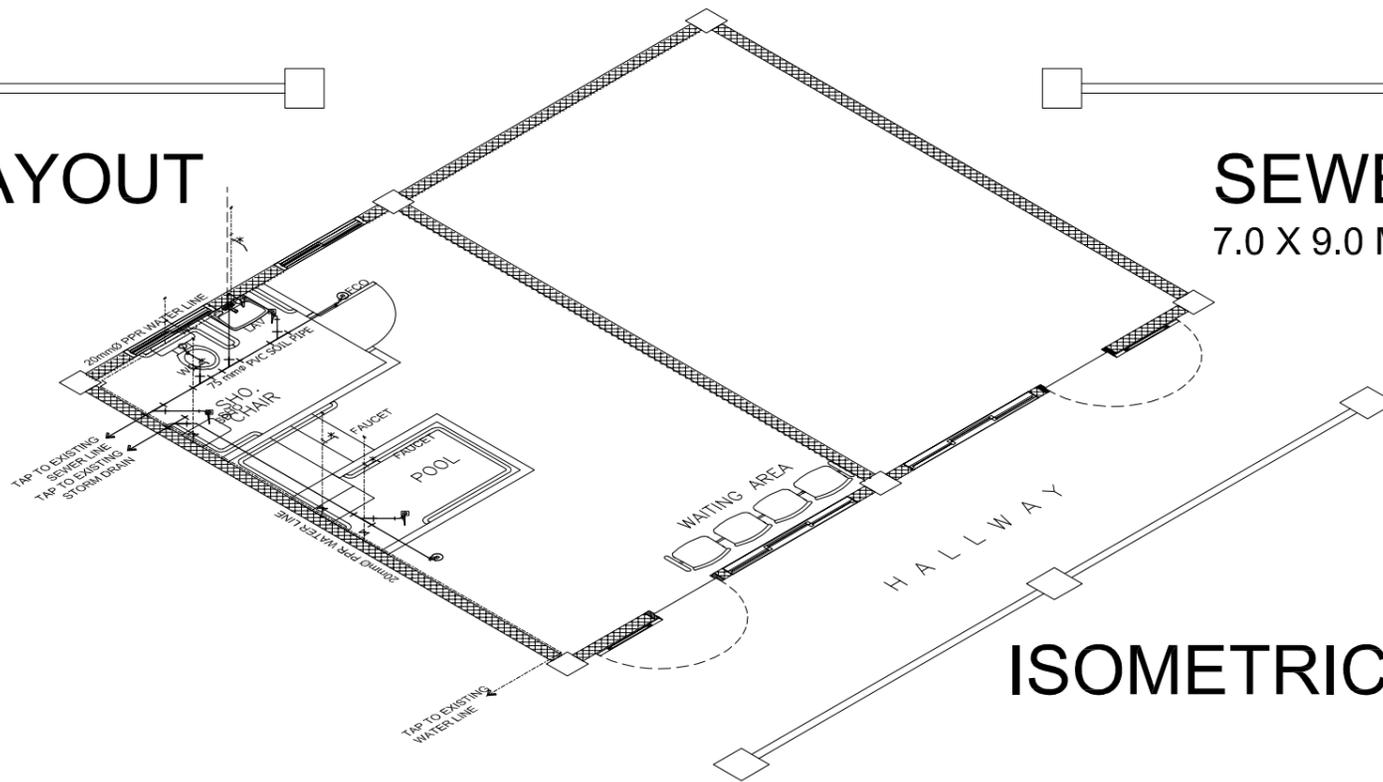
HALLWAY

WATER LINE LAYOUT
7.0 X 9.0 MTS.

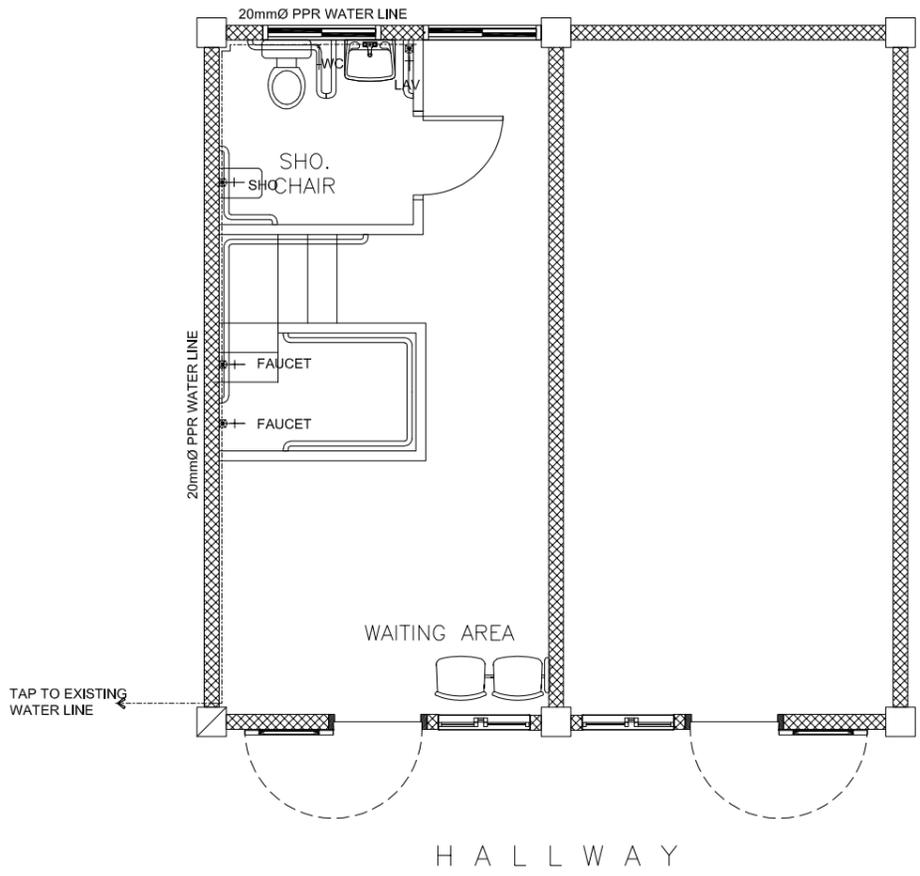


HALLWAY

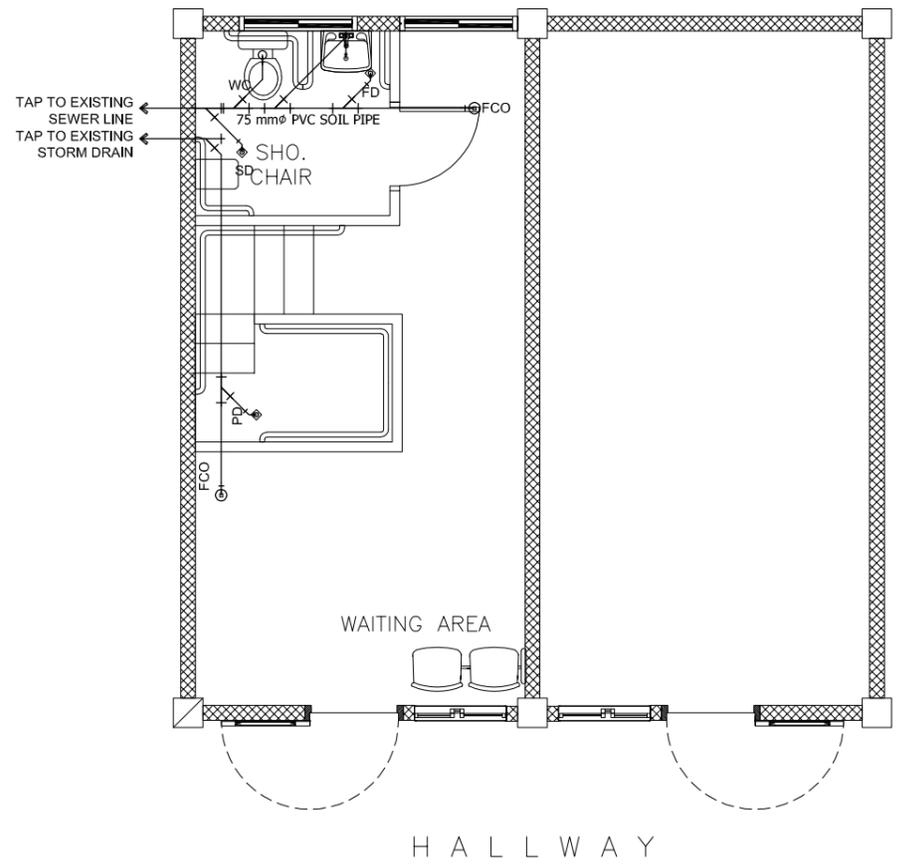
SEWER LINE LAYOUT
7.0 X 9.0 MTS.



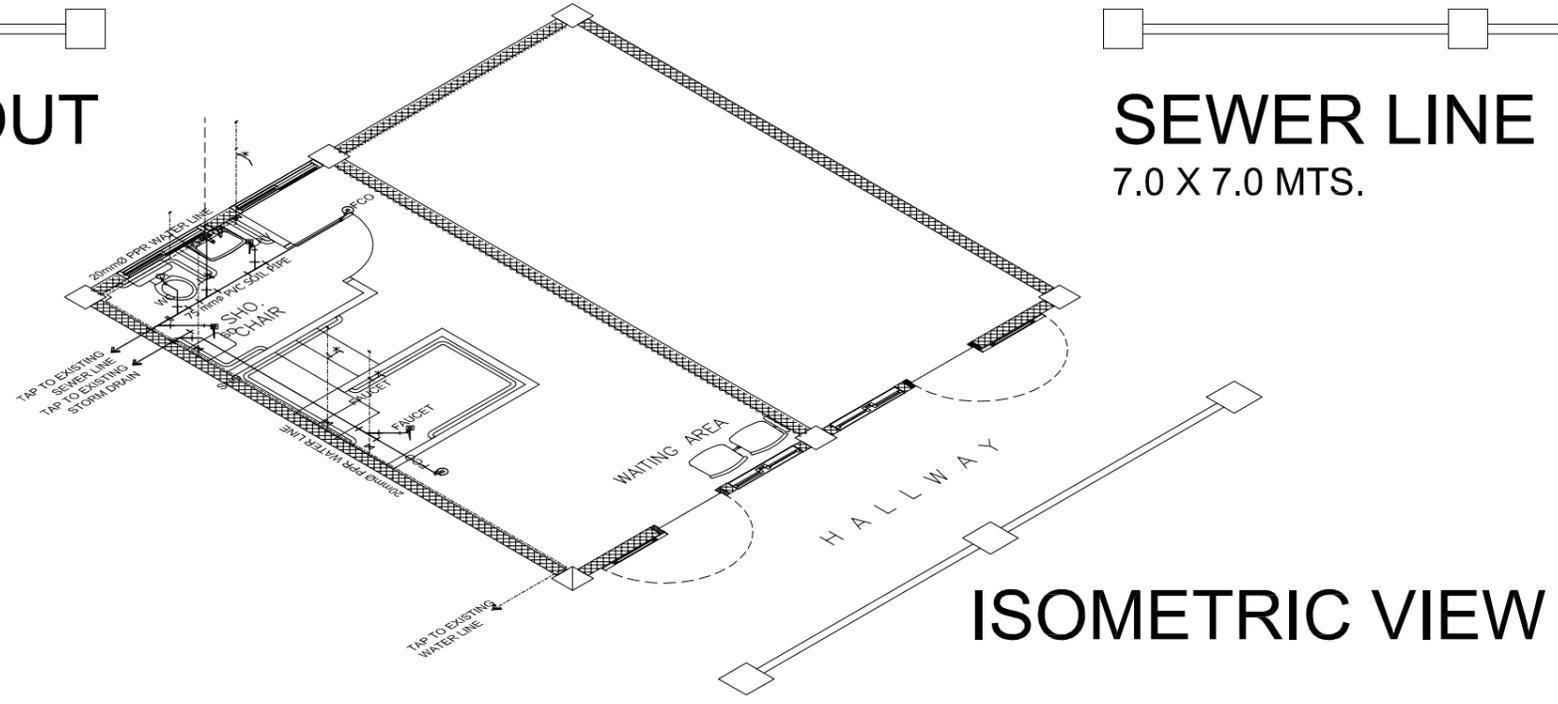
ISOMETRIC VIEW



WATER LINE LAYOUT
7.0 X 7.0 MTS.



SEWER LINE LAYOUT
7.0 X 7.0 MTS.



ISOMETRIC VIEW