













# ELECTRICAL DRAWING

MACHINE STORAGE

PLOT NO:LMEW-76

LOCATION:BJEMINA INDUSTRIAL ESTATE

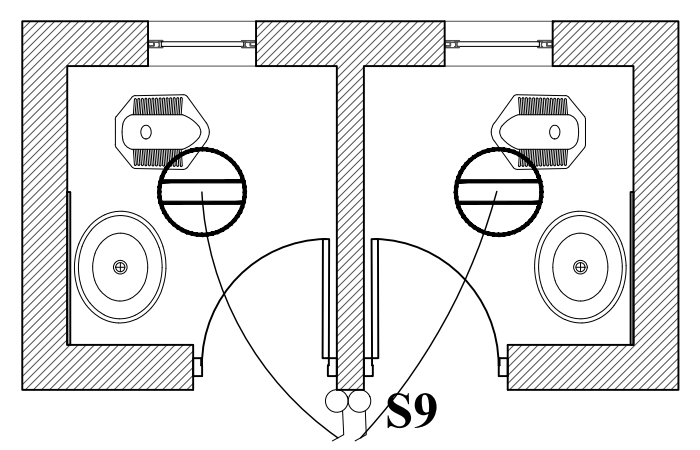
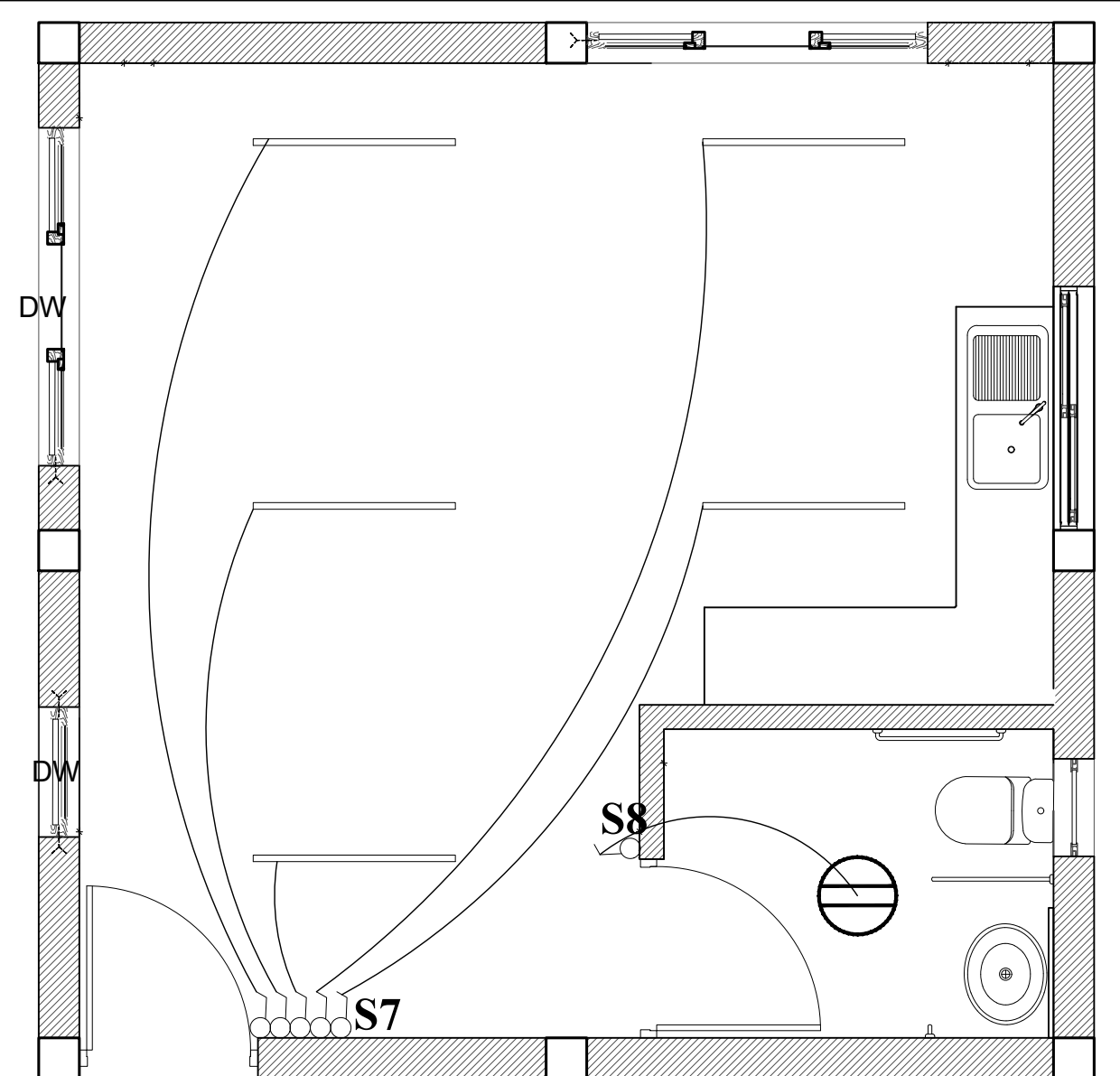
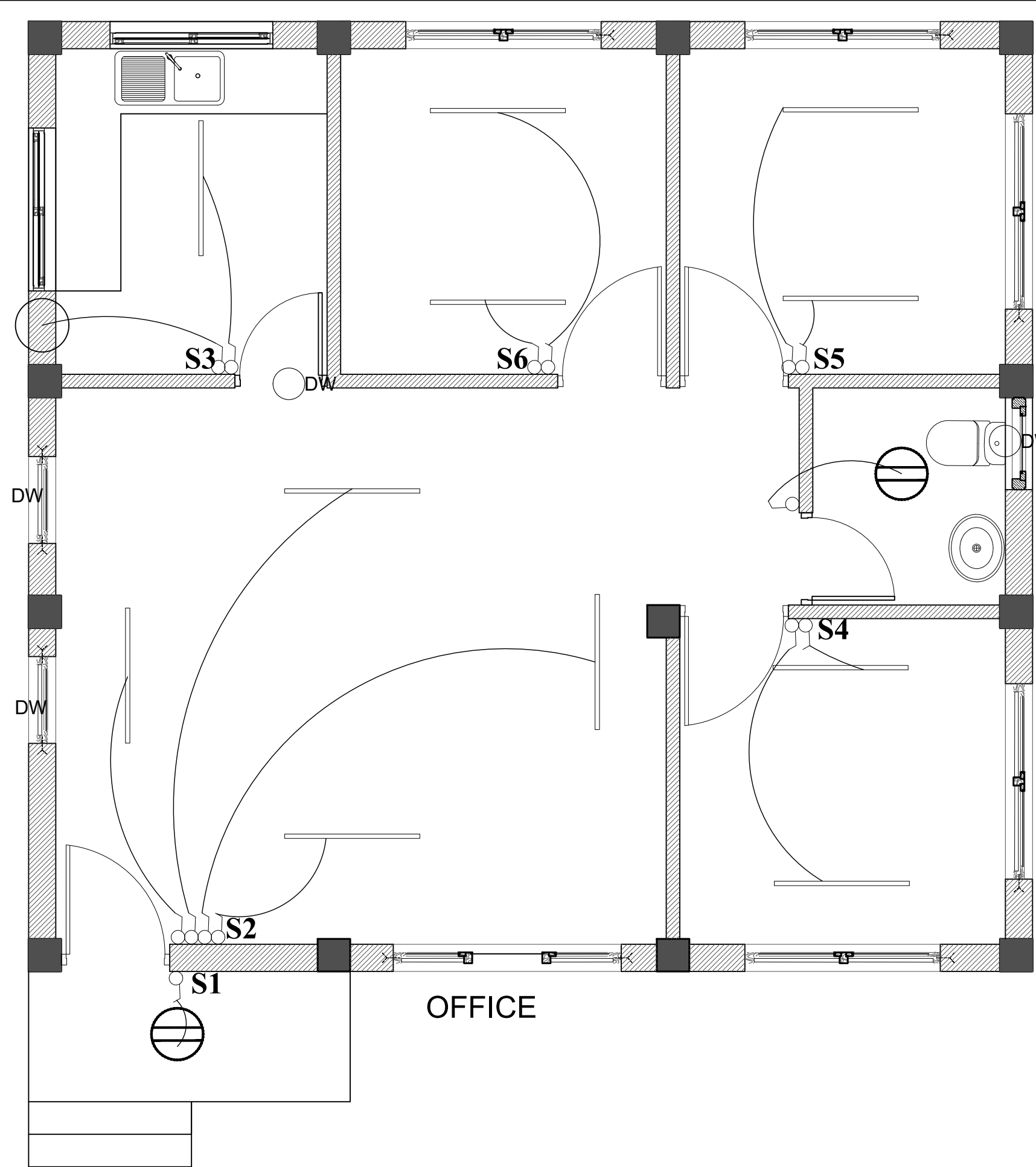
LEGEND

SYMBOL	DESCRIPTION
	EARTHING POSITION
	SUB DISTRIBUTION BOARD
	WALL BRACKET 1X15W
	LED TUBE LIGHT 1X36W (Ceiling recessed type)
	16Amp Socket (1X2000W)
	Surface Ceiling Light (1X15Watt)
	6A One Way Modular Switch
	300X300 Square Light (1X36Watt)
	600X600 Square Light (1X36Watt)
	Mirror Light (1X9W)
	Exhaust Fan (1X60W)
	Celing Fan (1X60W)

NOTE :

1. Light point wiring 1.5 sq.mm copper wire PVC insulated for 1.1KV grade.
2. Light circuit wiring 2x2.5 sq.mm cu. wire PVC insulated 1.1 KV grade.
3. Type of wiring : Recessed wiring by 25 mm dia of PVC pipe.
4. Switch board position : 1200 mm above finished floor level.
5. Wall bracket/call bell position : 2200 mm above finished floor level.
6. Power point, cable TV, Telephone socket position : 300 mm above the finished floor level.
7. Power point for cable TV : 1800 mm above the finished floor level.
8. Power point position in bath room : 1.5 metres from the finished floor level.
9. Power point circuit wiring : 2x4 sq mm PVC insulated copper conductor 1.1 KV grade.
10. Conduit : Recessed wiring by 25 mm dia of PVC pipe.
11. Loop earthing conductor to be of PVC insulated copper conductor single core 1 sq mm for light circuit and 2.5 sq mm for power circuit.
12. Colour of conductor insulations should be maintained as per phase code.
13. Colour for neutral to be black and earthing to be of green.

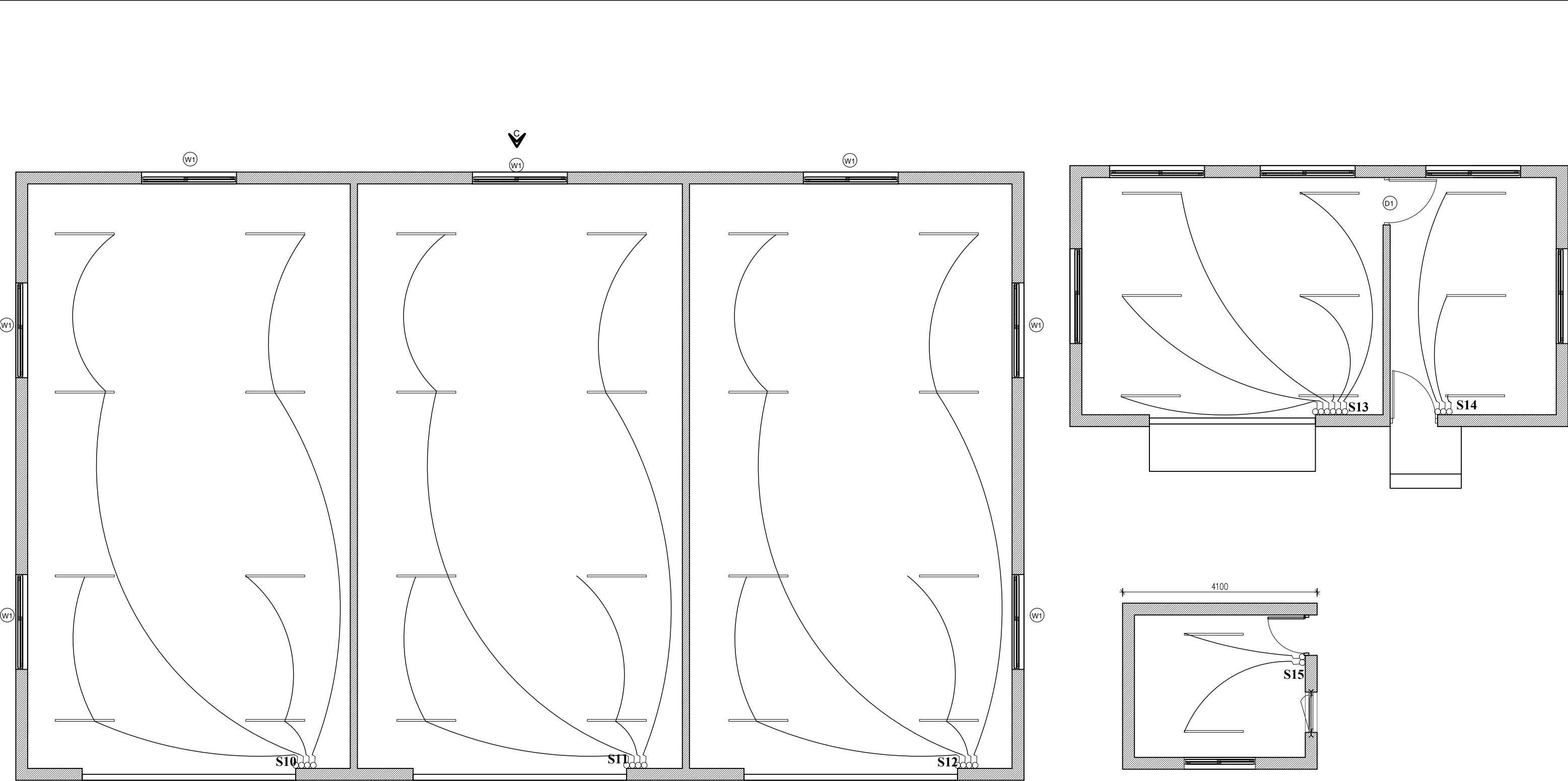
ELECTRICAL DRAWING ED-01	PROJECT NAME MACHINE STORAGE	PLOT DETAILS PLOT NO: LMEW-76 BJEMINA Industrial Estate	CLIENT DETAILS NAME : Sonam Jamtsho	DRAWN BY NAME : Tshering Wangmo	SCALE	DATE OF ISSUE APRIL 2024	<div>NOTES : -ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE -DO NOT SCALE DWGS, ALL DIMS ARE TO BE CHECKED ON SITE  -ALL STRUCTURAL/SERVICE DWGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DWGS, TO BE CO-RELATED WITH SCHEDULE OF QUANTITIES.  -THE DET. IN ALL DWGS TO BE READ PROPERLY, UNDERSTOOD AND EXECUTED BY COMPETENT, QUALIFIED ENGINEERING PERSONNEL TRAINED IN CONSTRUCTION WORK OF SUCH NATURE, POSSESSING ADEQUATE KNOWLEDGE OF GOOD ENGINEERING PRACTICE &amp; RELEVANT CODES AND SANDARDS.  -ARCHITECTURAL CONSULTANTS CANNOT TAKE RESPONSIBILITY FOR ERRORS/LAPSES DURING EXECUTION AS A CONSEQUENCE OF IMPROPER, INADEQUATE OR INCOMPETENT STUDY OF DWGS.</div>
	DRAWING TITLE NOTES AND LEGEND					REVISION □ □ □ □ □	



DAYCARE

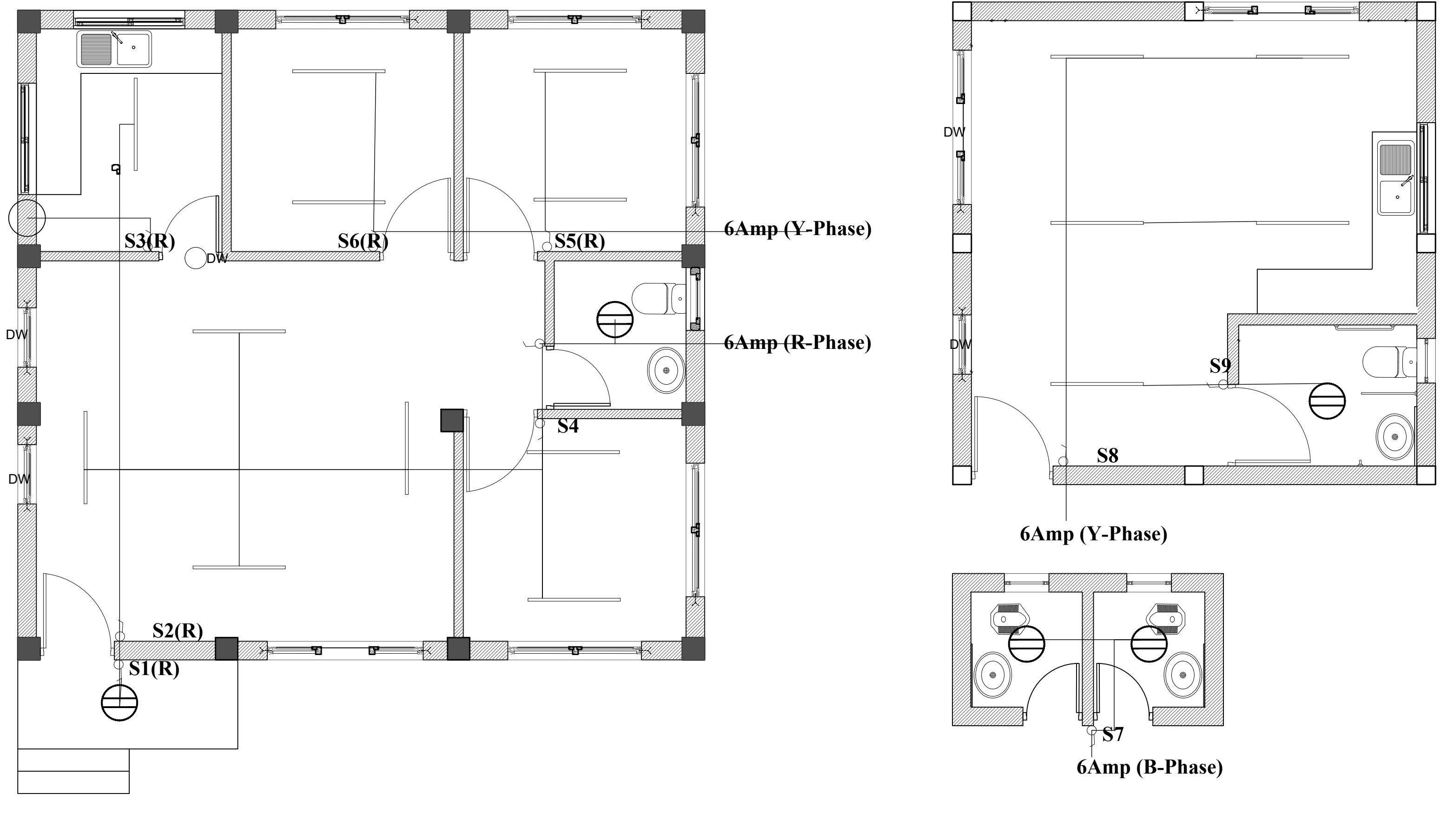
TOILET

ELECTRICAL DRAWING ED-02	PROJECT NAME MACHINE STORAGE	PLOT DETAILS PLOT NO: LMEW-76 BJEMINA Industrial Estate	CLIENT DETAILS NAME : Sonam Jamtsho	DRAWN BY NAME : Tshering Wangmo	SCALE	DATE OF ISSUE APRIL 2024	<div>NOTES : -ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE -DO NOT SCALE DWGS, ALL DIMS ARE TO BE CHECKED ON SITE  -ALL STRUCTURAL/SERVICE DWGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DWGS, TO BE CO-RELATED WITH SCHEDULE OF QUANTITIES.  -THE DET. IN ALL DWGS TO BE READ PROPERLY, UNDERSTOOD AND EXECUTED BY COMPETENT, QUALIFIED ENGINEERING PERSONNEL TRAINED IN CONSTRUCTION WORK OF SUCH NATURE, POSSESSING ADEQUATE KNOWLEDGE OF GOOD ENGINEERING PRACTICE &amp; RELEVANT CODES AND SANDARDS.  -ARCHITECTURAL CONSULTANTS CANNOT TAKE RESPONSIBILITY FOR ERRORS/LAPSES DURING EXECUTION AS A CONSEQUENCE OF IMPROPER, INADEQUATE OR INCOMPETENT STUDY OF DWGS.</div>
	DRAWING TITLE LIGHTING LAYOUT-OFFICE					REVISION □ □ □ □ □	

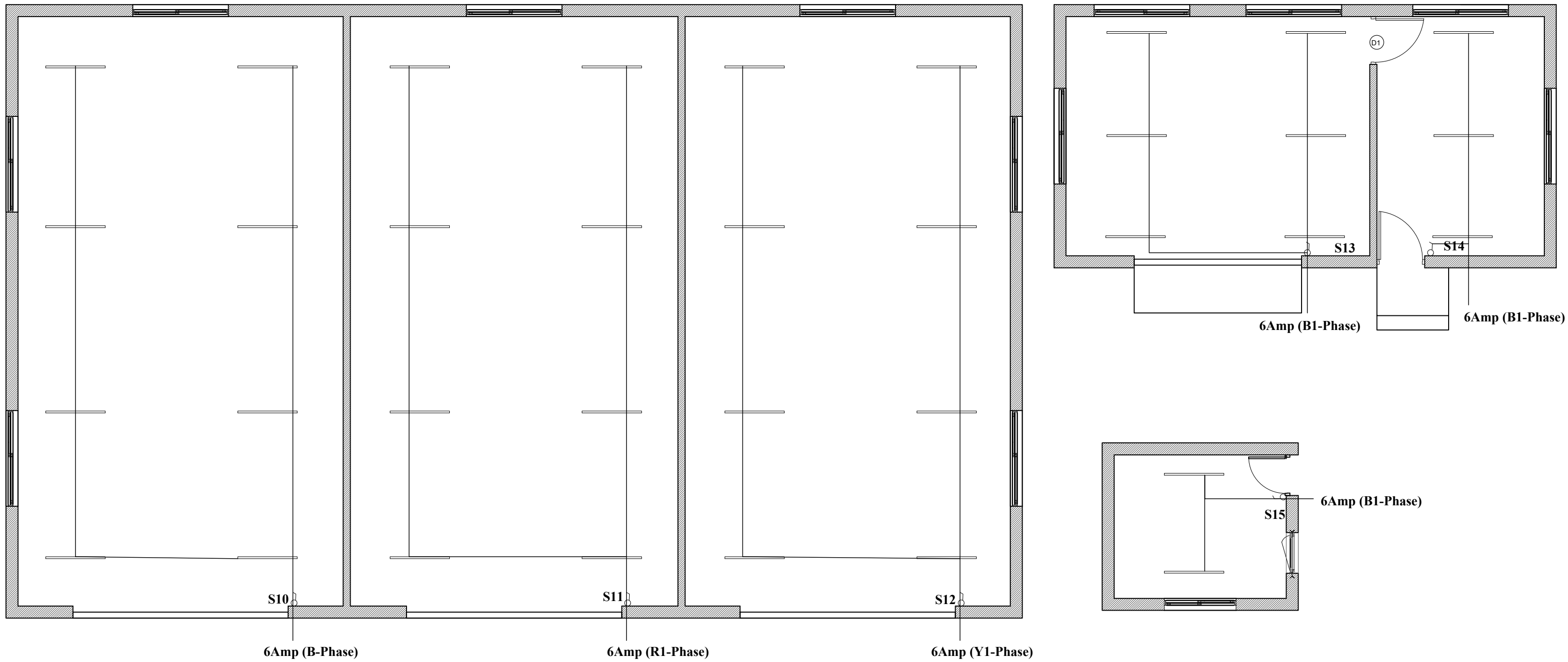


MACHINE STORAGE

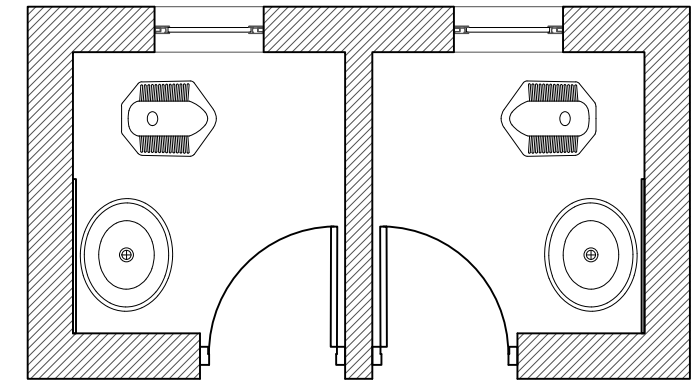
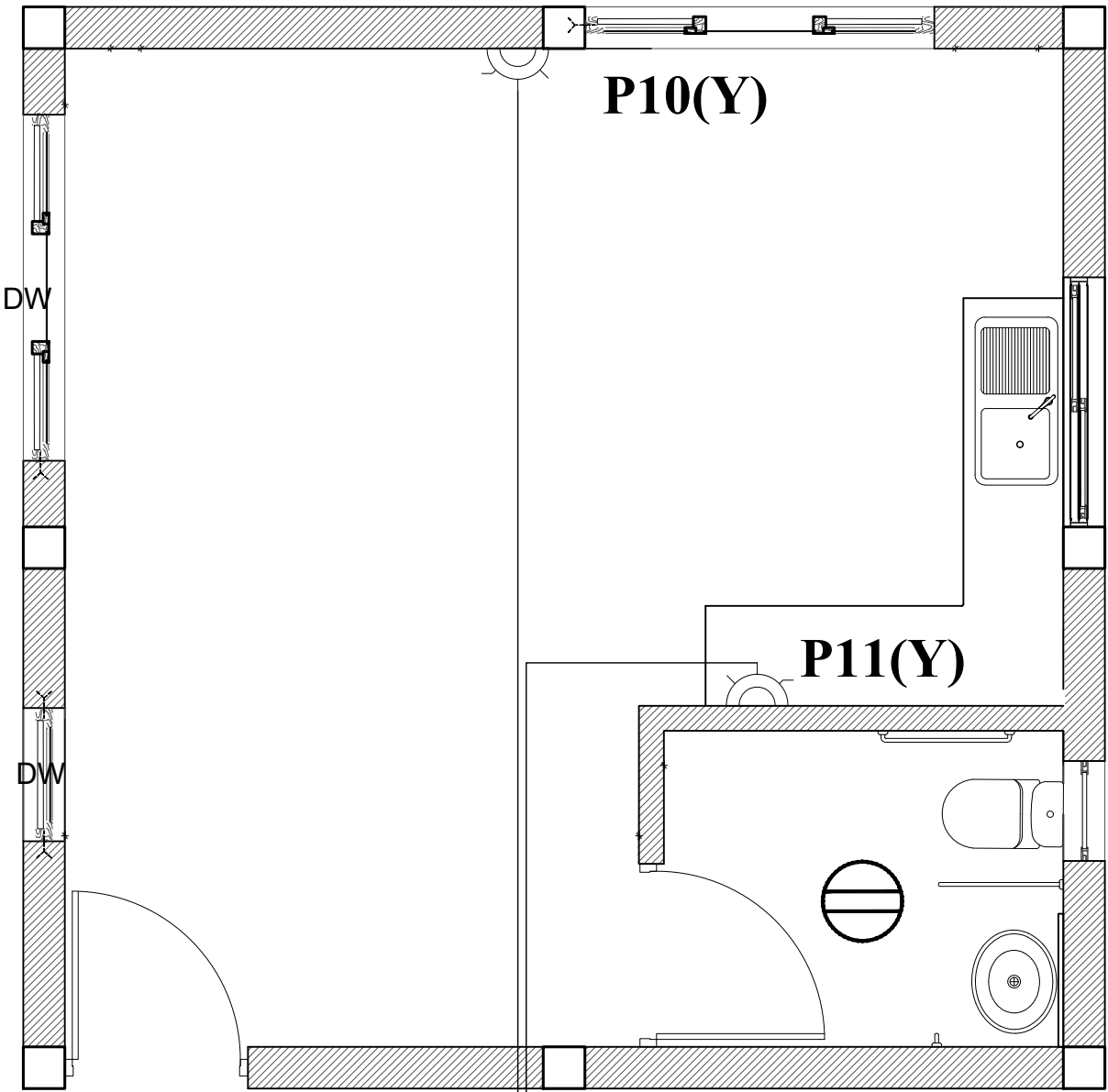
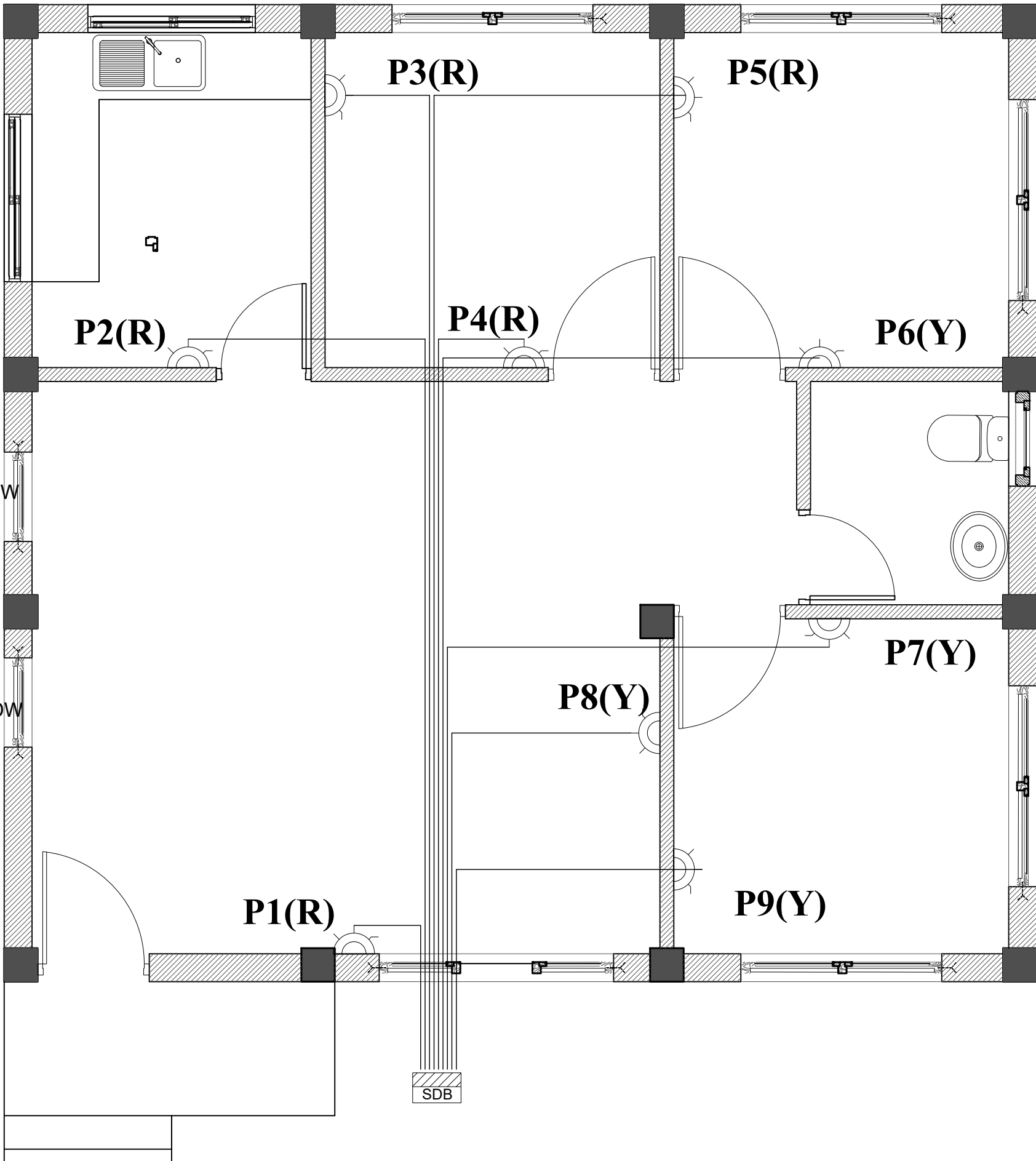
ELECTRICAL DRAWING ED-03	PROJECT NAME MACHINE STORAGE	PLOT DETAILS PLOT NO: LMEW-76 BJEMINA Industrial Estate	CLIENT DETAILS NAME : Sonam Jamtsho	DRAWN BY NAME : Tshering Wangmo	SCALE	DATE OF ISSUE APRIL 2024	<div>NOTES : -ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE -DO NOT SCALE DWGS, ALL DIMS ARE TO BE CHECKED ON SITE  -ALL STRUCTURAL/SERVICE DWGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DWGS, TO BE CO-RELATED WITH SCHEDULE OF QUANTITIES.  -THE DET. IN ALL DWGS TO BE READ PROPERLY, UNDERSTOOD AND EXECUTED BY COMPETENT, QUALIFIED ENGINEERING PERSONNEL TRAINED IN CONSTRUCTION WORK OF SUCH NATURE, POSSESSING ADEQUATE KNOWLEDGE OF GOOD ENGINEERING PRACTICE &amp; RELEVANT CODES AND SANDARDS.  -ARCHITECTURAL CONSULTANTS CANNOT TAKE RESPONSIBILITY FOR ERRORS/LAPSES DURING EXECUTION AS A CONSEQUENCE OF IMPROPER, INADEQUATE OR INCOMPETENT STUDY OF DWGS.</div>
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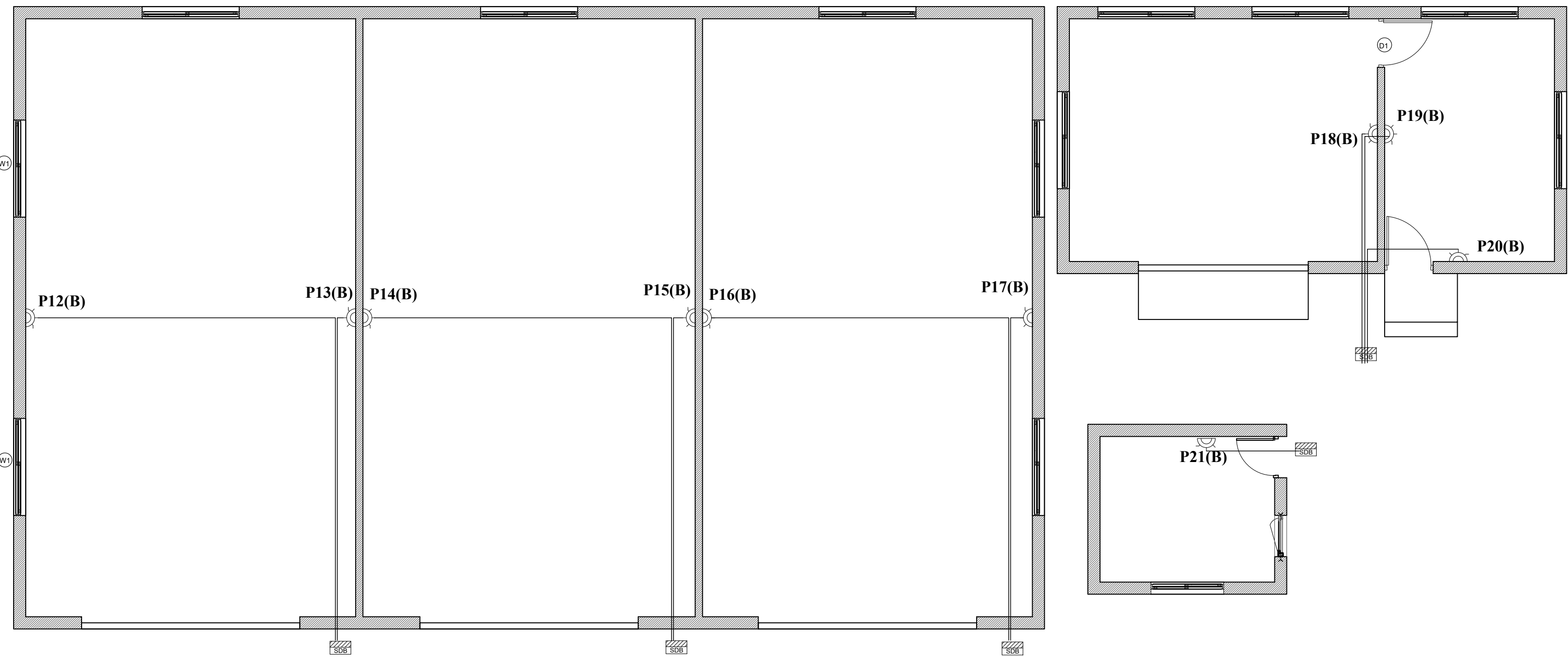
ELECTRICAL DRAWING ED-04	PROJECT NAME MACHINE STORAGE	PLOT DETAILS PLOT NO: LMEW-76 BJEMINA Industrial Estate	CLIENT DETAILS NAME : Sonam Jamtsho	DRAWN BY NAME : Tshering Wangmo	SCALE	DATE OF ISSUE APRIL 2024	<div>NOTES : -ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE -DO NOT SCALE DWGS, ALL DIMS ARE TO BE CHECKED ON SITE  -ALL STRUCTURAL/SERVICE DWGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DWGS, TO BE CO-RELATED WITH SCHEDULE OF QUANTITIES.  -THE DET. IN ALL DWGS TO BE READ PROPERLY, UNDERSTOOD AND EXECUTED BY COMPETENT, QUALIFIED ENGINEERING PERSONNEL TRAINED IN CONSTRUCTION WORK OF SUCH NATURE, POSSESSING ADEQUATE KNOWLEDGE OF GOOD ENGINEERING PRACTICE &amp; RELEVANT CODES AND SANDARDS.  -ARCHITECTURAL CONSULTANTS CANNOT TAKE RESPONSIBILITY FOR ERRORS/LAPSES DURING EXECUTION AS A CONSEQUENCE OF IMPROPER, INADEQUATE OR INCOMPETENT STUDY OF DWGS.</div>
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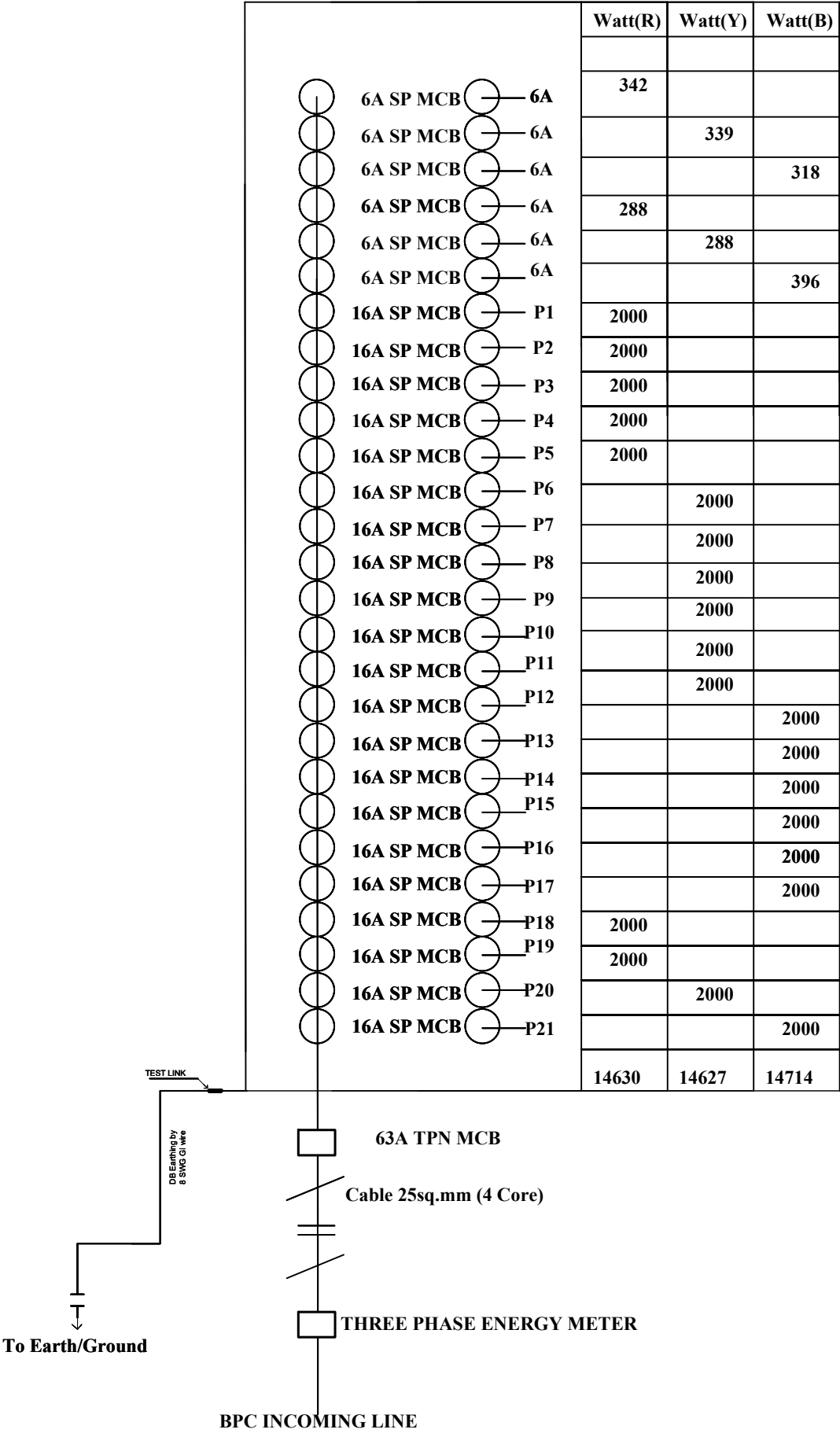
ELECTRICAL DRAWING ED-06	PROJECT NAME MACHINE STORAGE	PLOT DETAILS PLOT NO: LMEW-76 BJEMINA Industrial Estate	CLIENT DETAILS NAME : Sonam Jamtsho	DRAWN BY NAME : Tshering Wangmo	SCALE	DATE OF ISSUE APRIL 2024	<div>NOTES : -ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE -DO NOT SCALE DWGS, ALL DIMS ARE TO BE CHECKED ON SITE -ALL STRUCTURAL/SERVICE DWGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DWGS, TO BE CO-RELATED WITH SCHEDULE OF QUANTITIES. -THE DET. IN ALL DWGS TO BE READ PROPERLY, UNDERSTOOD AND EXECUTED BY COMPETENT, QUALIFIED ENGINEERING PERSONNEL TRAINED IN CONSTRUCTION WORK OF SUCH NATURE, POSSESSING ADEQUATE KNOWLEDGE OF GOOD ENGINEERING PRACTICE &amp; RELEVANT CODES AND SANDARDS. -ARCHITECTURAL CONSULTANTS CANNOT TAKE RESPONSIBILITY FOR ERRORS/LAPSES DURING EXECUTION AS A CONSEQUENCE OF IMPROPER, INADEQUATE OR INCOMPETENT STUDY OF DWGS.</div>
	DRAWING TITLE POWERPOINT LAYOUT-OFFICE					REVISION	
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ELECTRICAL DRAWING ED-07	PROJECT NAME MACHINE STORAGE	PLOT DETAILS PLOT NO: LMEW-76 BJEMINA Industrial Estate	CLIENT DETAILS NAME : Sonam Jamtsho	DRAWN BY NAME : Tshering Wangmo	SCALE	DATE OF ISSUE APRIL 2024	<div>NOTES : -ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE -DO NOT SCALE DWGS, ALL DIMS ARE TO BE CHECKED ON SITE  -ALL STRUCTURAL/SERVICE DWGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DWGS, TO BE CO-RELATED WITH SCHEDULE OF QUANTITIES.  -THE DET. IN ALL DWGS TO BE READ PROPERLY, UNDERSTOOD AND EXECUTED BY COMPETENT, QUALIFIED ENGINEERING PERSONNEL TRAINED IN CONSTRUCTION WORK OF SUCH NATURE, POSSESSING ADEQUATE KNOWLEDGE OF GOOD ENGINEERING PRACTICE &amp; RELEVANT CODES AND SANDARDS.  -ARCHITECTURAL CONSULTANTS CANNOT TAKE RESPONSIBILITY FOR ERRORS/LAPSES DURING EXECUTION AS A CONSEQUENCE OF IMPROPER, INADEQUATE OR INCOMPETENT STUDY OF DWGS.</div>
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SDB(Light& Power) Supply: 24 Way SPN  MCB DB mounted with  
5no. 6A SP MCB, 19nos. 16A MCB



Total Light Load		
	Load	MCB
S1(R)=15X1	15	342
S2(R)=36X4	144	
S3(R)=36X1	36	
=60X1	60	
S4(R)=36X2	72	
=15X1	15	339
S5(Y)=36X2	72	
S6(Y)=36X2	72	
S7(Y)=36X5	180	
S8(Y)=15X1	15	
S9(B)=15X2	30	318
S10(B)=36X8	288	
S11(R1)=36X8	288	
S12(Y1)=36X8	288	
S13(B1)=36X6	216	
S14(B1)=36X3	108	396
S15(B1)=36X2	72	
TOTAL	1971	

Total Power Load	
Conduit Layout	Watt
Conduit 1/12= P1,P2	4000
Conduit 2/12= P3,P4	4000
Conduit 3/12 = P5	2000
Conduit 4/12= P6,P7	4000
Conduit 5/12= P8,P9	4000
Conduit 6/12= P10,P11	4000
Conduit 7/12= P12,P13	4000
Conduit 8/12= P14,P15	4000
Conduit 9/12= P16,P17	4000
Conduit 10/12= P18,P19	4000
Conduit 11/12 = P20	2000
Conduit 12/12= P22	2000
TOTAL	42000

ELECTRICAL DRAWING  
ED-08

PROJECT NAME  
MACHINE STORAGE  
DRAWING TITLE  
SINGLE LINE DIAGRAM

PLOT DETAILS  
PLOT NO: LMEW-76  
BJEMINA Industrial Estate

CLIENT DETAILS  
NAME :  
Sonam Jamtsho

DRAWN BY  
NAME :  
Tshering Wangmo

SCALE

DATE OF ISSUE  
APRIL 2024

REVISION  
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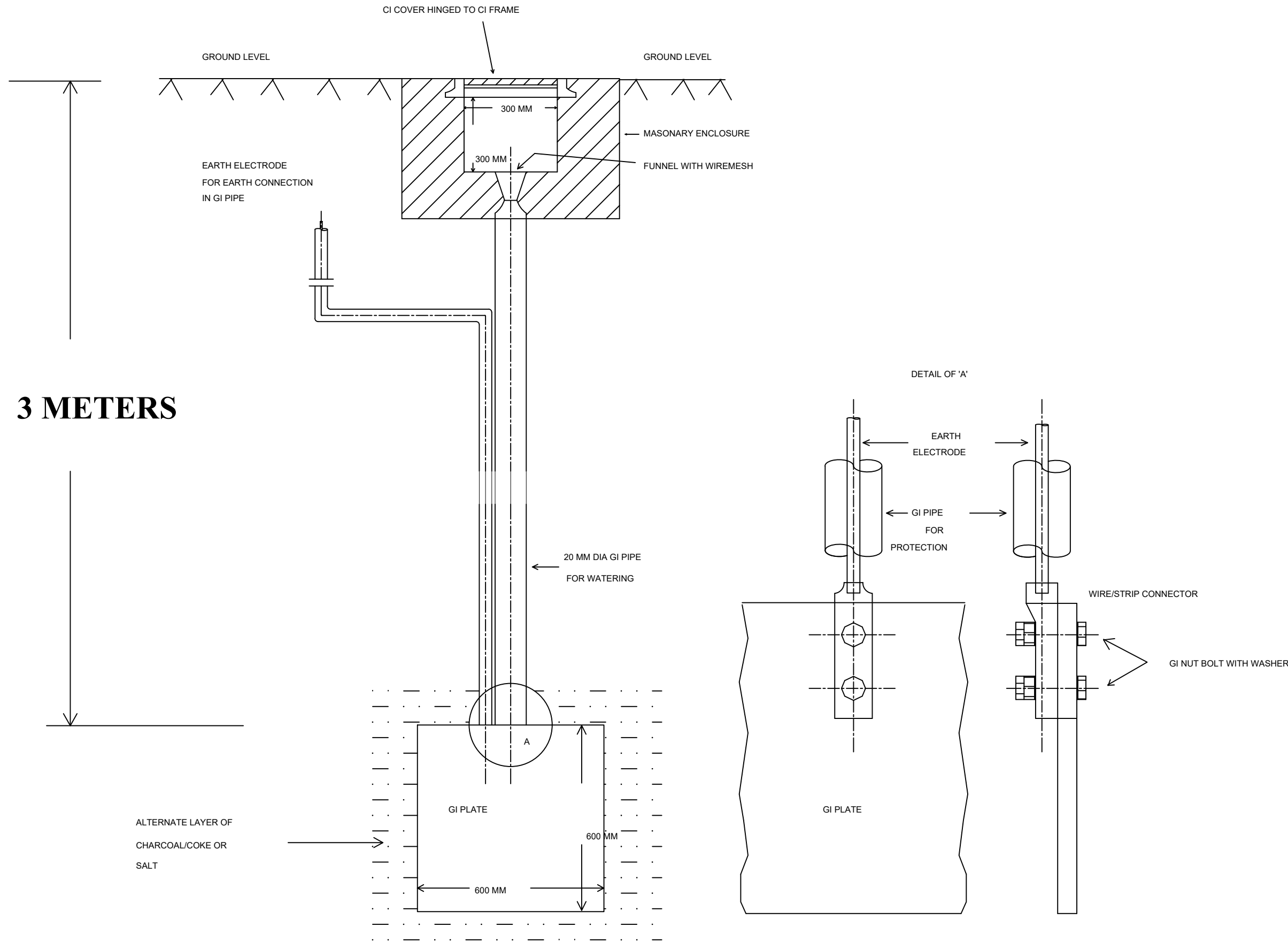
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LOAD CHART

	CONNECTED LOAD (Watt)	DEMAND LOAD (60%)-Watt	CURRENT (Amp)	MCB/ RCCB (Amp)	CABLE SIZE (Sq.mm)
TOTAL	43971	26382.6	45.88	63	25 Sq.mm

ELECTRICAL DRAWING ED-09	PROJECT NAME MACHINE STORAGE	PLOT DETAILS PLOT NO: LMEW-76 BJEMINA Industrial Estate	CLIENT DETAILS NAME : Sonam Jamtsho	DRAWN BY NAME : Tshering Wangmo	SCALE	DATE OF ISSUE APRIL 2024	<div>NOTES : -ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE -DO NOT SCALE DWGS, ALL DIMS ARE TO BE CHECKED ON SITE  -ALL STRUCTURAL/SERVICE DWGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DWGS, TO BE CO-RELATED WITH SCHEDULE OF QUANTITIES.  -THE DET. IN ALL DWGS TO BE READ PROPERLY, UNDERSTOOD AND EXECUTED BY COMPETENT, QUALIFIED ENGINEERING PERSONNEL TRAINED IN CONSTRUCTION WORK OF SUCH NATURE, POSSESSING ADEQUATE KNOWLEDGE OF GOOD ENGINEERING PRACTICE &amp; RELEVANT CODES AND SANDARDS.  -ARCHITECTURAL CONSULTANTS CANNOT TAKE RESPONSIBILITY FOR ERRORS/LAPSES DURING EXECUTION AS A CONSEQUENCE OF IMPROPER, INADEQUATE OR INCOMPETENT STUDY OF DWGS.</div>
	DRAWING TITLE LOAD CHART					REVISION □□□□□	

# G.I Plate Earthing Detail



ELECTRICAL DRAWING ED-10	PROJECT NAME MACHINE STORAGE	PLOT DETAILS PLOT NO: LMEW-76 BJEMINA Industrial Estate	CLIENT DETAILS NAME : Sonam Jamtsho	DRAWN BY NAME : Tshering Wangmo	SCALE	DATE OF ISSUE APRIL 2024	<div>NOTES :</div> <div>-ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE</div> <div>-DO NOT SCALE DWGS, ALL DIMS ARE TO BE CHECKED ON SITE</div> <div>-ALL STRUCTURAL/SERVICE DWGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DWGS, TO BE CO-RELATED WITH SCHEDULE OF QUANTITIES.</div> <div>-THE DET. IN ALL DWGS TO BE READ PROPERLY, UNDERSTOOD AND EXECUTED BY COMPETENT, QUALIFIED ENGINEERING PERSONNEL TRAINED IN CONSTRUCTION WORK OF SUCH NATURE, POSSESSING ADEQUATE KNOWLEDGE OF GOOD ENGINEERING PRACTICE &amp; RELEVANT CODES AND SANDARDS.</div> <div>-ARCHITECTURAL CONSULTANTS CANNOT TAKE RESPONSIBILITY FOR ERRORS/LAPSES DURING EXECUTION AS A CONSEQUENCE OF IMPROPER, INADEQUATE OR INCOMPETENT STUDY OF DWGS.</div>
	DRAWING TITLE EARTHING					REVISION □ □ □ □ □	