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Save the Children

Multipurpose Disaster Shelter Support (MPDS) Project

ELECTRICAL DESIGN & DRAWINGS






FOR

CONSTRUCTION OF MULTIPURPOSE DISASTER SHELTER AT LAMA ADORSHO GOVERNMENT PRIMARY
SCHOOL UNDER LAMA UPAZILA, DISTRICT: BANDARBAN


















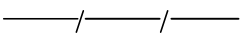
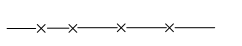
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Index (Electrical)

SL	Drawing Title	Sheet No.	Revision No.
01	Index (Electrical Works)	E00	
02	Electrical Legend & Notes	E01	
03	Ground Floor Electrical Layout Plan(PDB Power)	E02	
04	First Floor Electrical Layout Plan(PDB Power)	E03	
05	Roof Floor Electrical Layout Plan(PDB Power)	E04	
06	Birds Eye Lightning Protection System	E05	
07	Ground Floor Electrical IPS Layout Plan	E06	
08	First Floor Electrical Electrical IPS Layout Plan	E07	
09	Roof Floor Electrical IPS Layout Plan	E08	
10	Roof Floor Electrical IPS Layout Plan	E09	
11	Circuit Diagram & Earthing	E10	
12	Schematic diagram of IPS system layout plan	E11	
13	Ground Floor Electrical Fixture Layout Plan(PDB Power)	E12	
14	First Floor Electrical Fixture Layout Plan(PDB Power)	E13	

NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<div></div> <div>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</div>	Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban FUNDED BY: USAID	MPDS Engineering Team	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<div>Package No: SCI/MPDS/B10-19-01</div> <div>Revision No:</div> <div>Issued for Tender</div>	INDEX (ELECTRICAL)	All Dimension are in Millimeter unless mentioned	E00
					SCALE			
					As Shown			




ELECTRICAL LEGEND

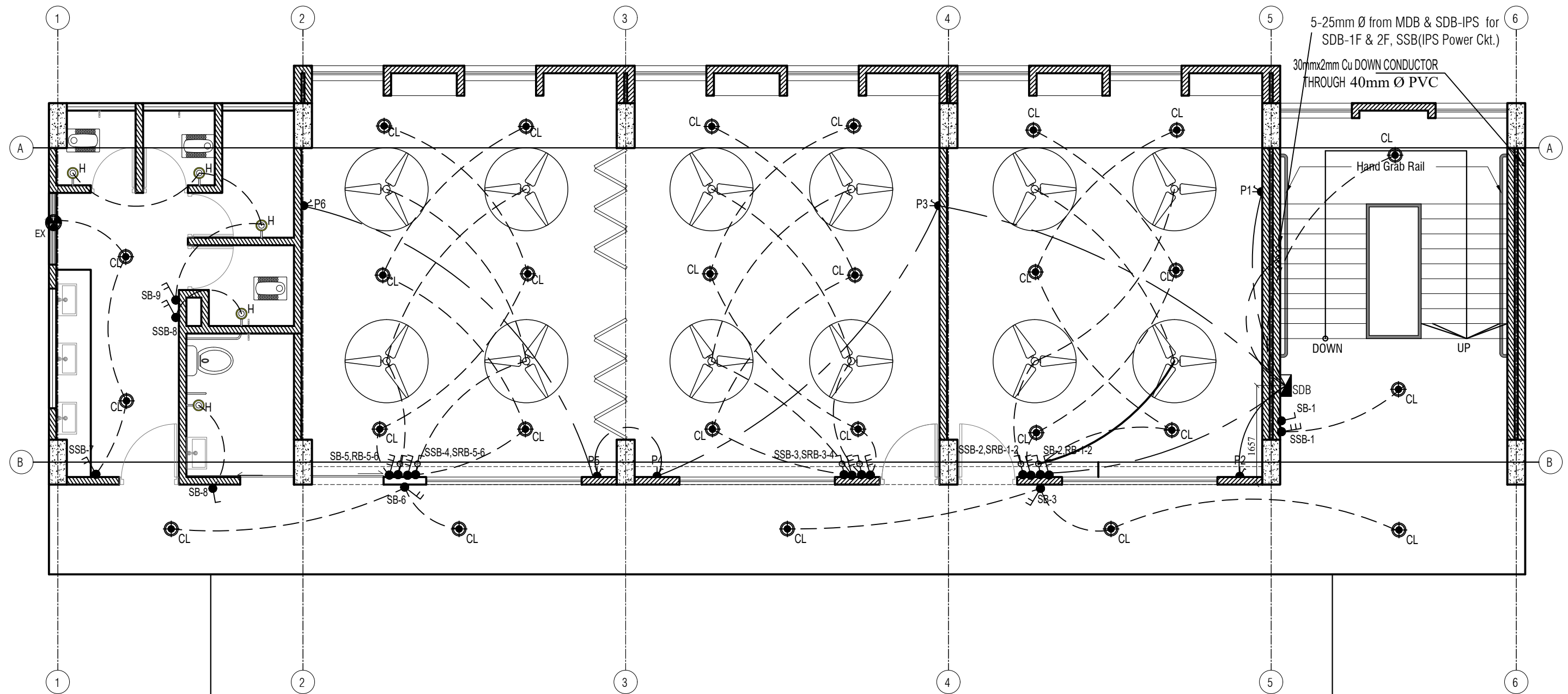
	MDB	MAIN DISTRIBUTION BOARD
	SDB	SUB-DISTRIBUTION BOARD
	SB	1-GANG SWITCH BOARD(NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL
	SB	2-GANG SWITCH BOARD(NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL
	SB	3-GANG SWITCH BOARD(NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL
	RB	FAN REGULATOR I/C SWITCH(NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL
	SSB	1-GANG SWITCH BOARD(IPS /NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL
	SSB	2-GANG SWITCH BOARD(IPS /NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL
	SSB	3-GANG SWITCH BOARD(IPS /NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL
	SRB	FAN REGULATOR I/C SWITCH(IPS /NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL
	CL	1X12W/15W CEILING SURFACE MOUNTED LED LIGHT FIXTURE
	ML	1X7W WALL MOUNTED MIRROR LED LIGHT FIXTURE
	H	1X7W WALL MOUNTED LED BRACKET LIGHT FIXTURE
	SL	1X12W WALL MOUNTED LED SECURITY LIGHT FIXTURE
	F	1422 mm SWEEP CEILING FAN
	EX	600 mm SWEEP EXHAUST FAN
	P	16A SP (2/3 PIN) UNIVERSAL TYPE SWITCHED SOCKET OUTLET
	C1	1.5 mm² SINGLE CORE BYA (rm) FRLS CABLE
	C2	2.5 mm² SINGLE CORE BYA (rm) FRLS CABLE
	C3	4.0 mm² SINGLE CORE BYA (rm) FRLS CABLE
	C4	6.0 mm² SINGLE CORE BYA (rm) FRLS CABLE
	E4	1.5 mm² SINGLE CORE BYA (re) FRLS CABLE
	E4	2.5 mm² SINGLE CORE BYA (re) FRLS CABLE
	E4	6.0 mm² SINGLE CORE BYA (rm) FRLS CABLE
	E4	16 mm² SINGLE CORE BYA (rm) FRLS CABLE
	CONDUIT ROUTE THROUGH CEILING / WALL	
	CONDUIT ROUTE THROUGH GROUND / FLOOR	

NOTE :

- 1.0 ALL PVC CONDUIT ARE (25mm) UNLESS OTHERWISE SPECIFIED
- 2.0 CONDUITS SHALL BE LAID EXPOSED ABOVE FALSE CEILING AREA.
- 3.0 CONDUITS SHALL BE CONCEALED IN R.C.C. SLAB WHERE THERE IS NO FALSE CEILING
- 4.0 CONDUITS SHALL BE CONCEALED IN R.C.C. COLUMN/WALL
- 5.0 SWITCH BOARD(SB)- TO LIGHT/FAN POINT WIRING BY --- 2X1C-1.5mm² BYA rm (50% Red + 50% Black)+1X1C-1.5mm² BYA re (Green) CABLE
- 6.0 SDB TO EACH SWITCH BOARD CIRCUIT WIRING BY --- AS SHOWN IN THE CIRCUIT DIAGRAM
- 7.0 SDB TO EACH SOCKET CIRCUIT WIRING BY --- AS SHOWN IN THE CIRCUIT DIAGRAM
- 8.0 MDB TO EACH SDB-SUB-MAIN LINE WIRING BY --- AS SHOWN IN THE CIRCUIT DIAGRAM
- 9.0 ALL STEEL BOX : SWITCH BOARD/SOCKET/SDB BOX MUST BE USE -- EARTHING TERMINAL/BLOCK
- 10.0 EARTHING SET -- 2SETS. (1-SET FOR LIGHTNING PROTECTION SYSTEM, 1-SET FOR MDB)- EARTH ELECTRODE -38mmØ G.I PIPE-DEPTH: 12000mm LONG
- 11.0 ALL CABLE SIZES AS PER BNBC CODE
- 12.0 SB- INSTALLATION HEIGHT-- 1200mm FROM F.F.L
SOCKET INSTALLATION HEIGHT-- 75mm FROM F.F.L EXCEPT TOILET/KITCHEN
FOR KITCHEN & TOILET-SOCKET HEIGHT -SAME OF SWITCH BOARD HEIGHT
- 13.0 ANY CHANGES REQUIRED IN THE DESIGN & DRAWING SHALL BE SUBJECTED TO PRIOR APPROVAL OF THE DESIGN ENGINEER OTHERWISE THIS SHALL NOT BE BINDING UPON THE CONSULTANT.
- 14.0 QUALITY CONTROL ASSURANCE AND WORKMANSHIP SHALL BE ENSURED BY THE EXECUTING AGENCY.




ALL THE ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS

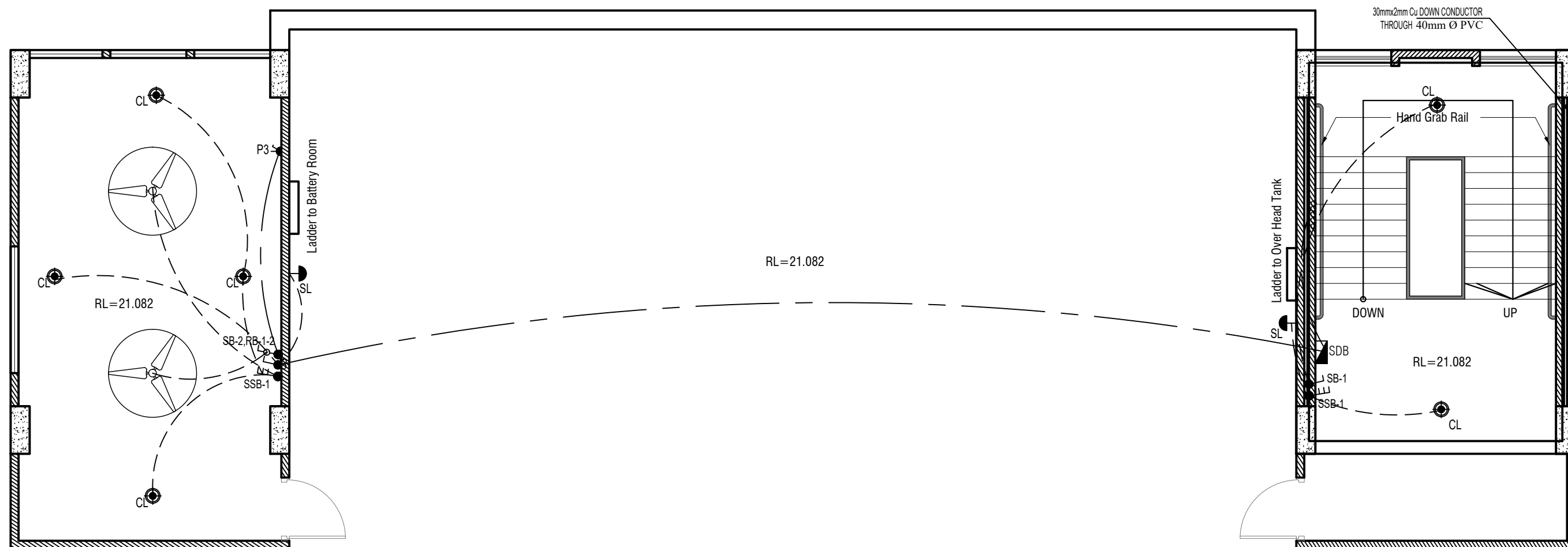
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					Revision No:			SCALE
					Issued for Tender			As Shown



First Floor Electrical Layout Plan




EXISTING BUILDING

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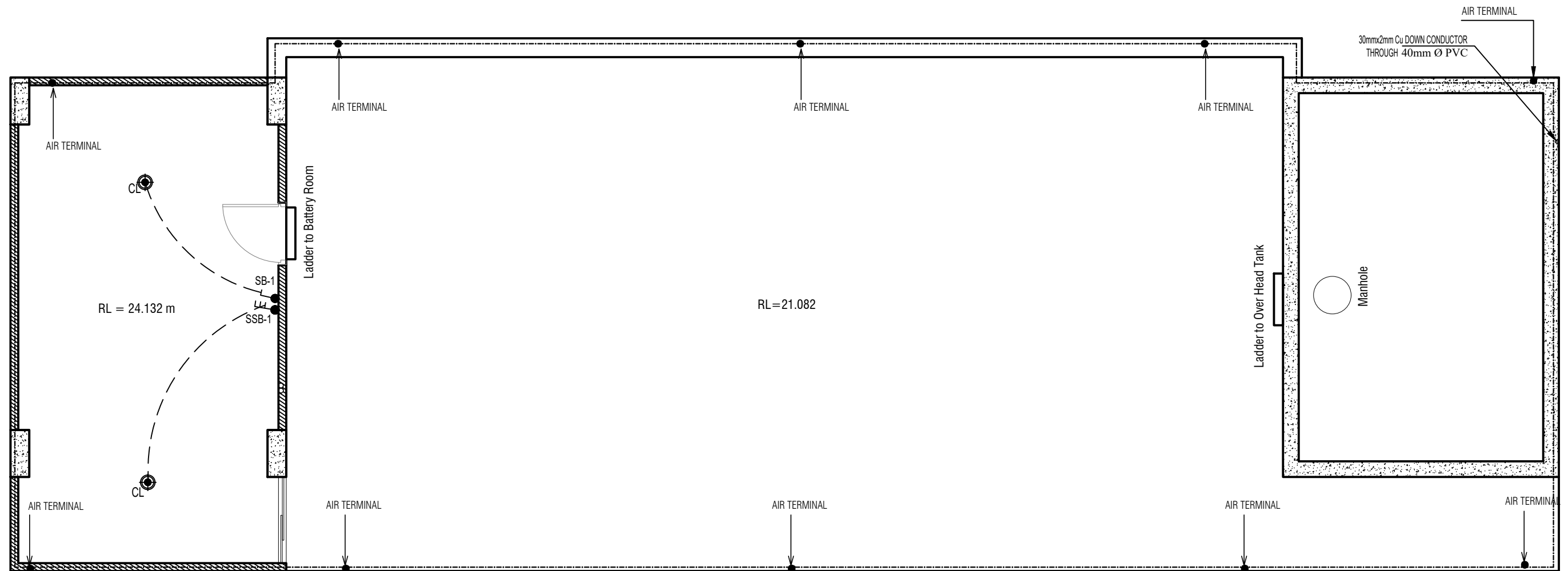


Roof Floor Electrical Layout Plan




EXISTING BUILDING

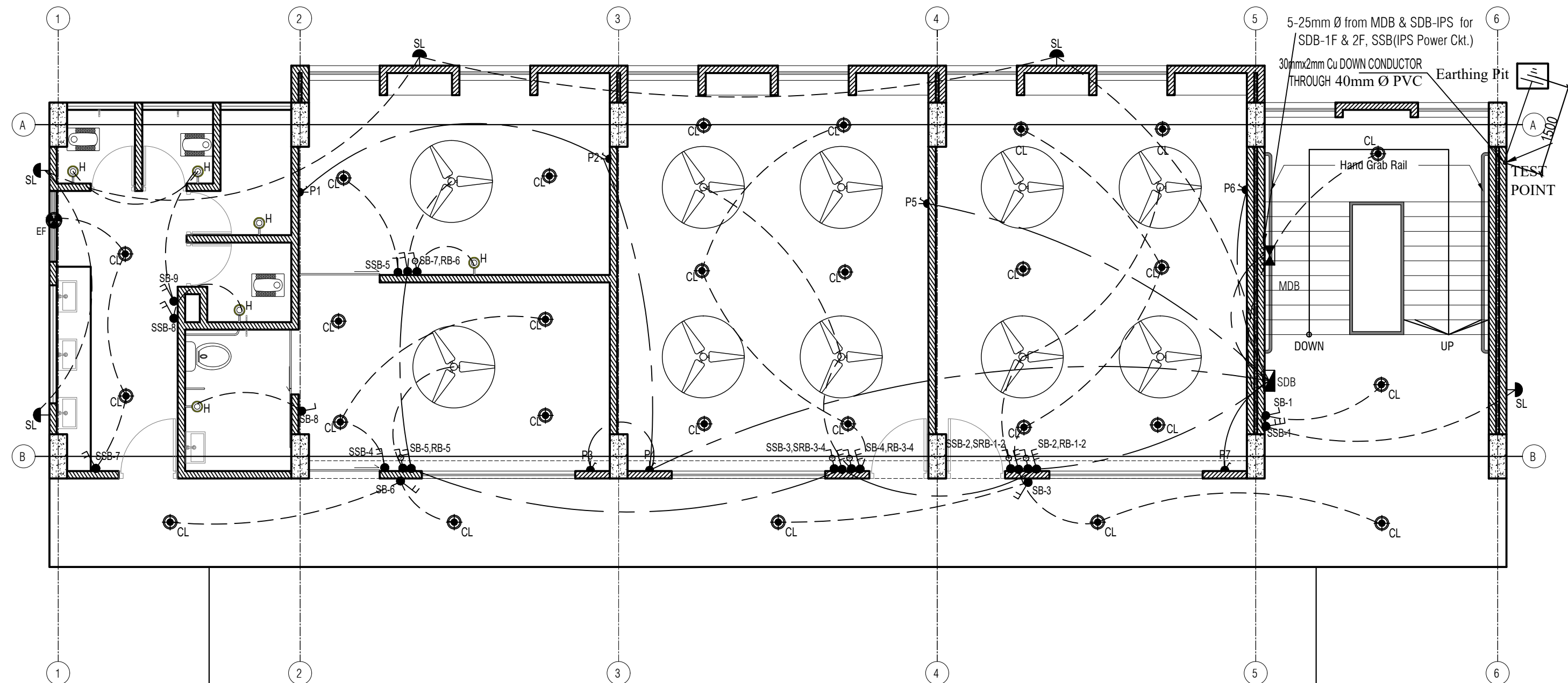
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All Dimension are in Millimeter unless mentioned






**Battery Room Floor Electrical Layout Plan with
Lightning Protection System**

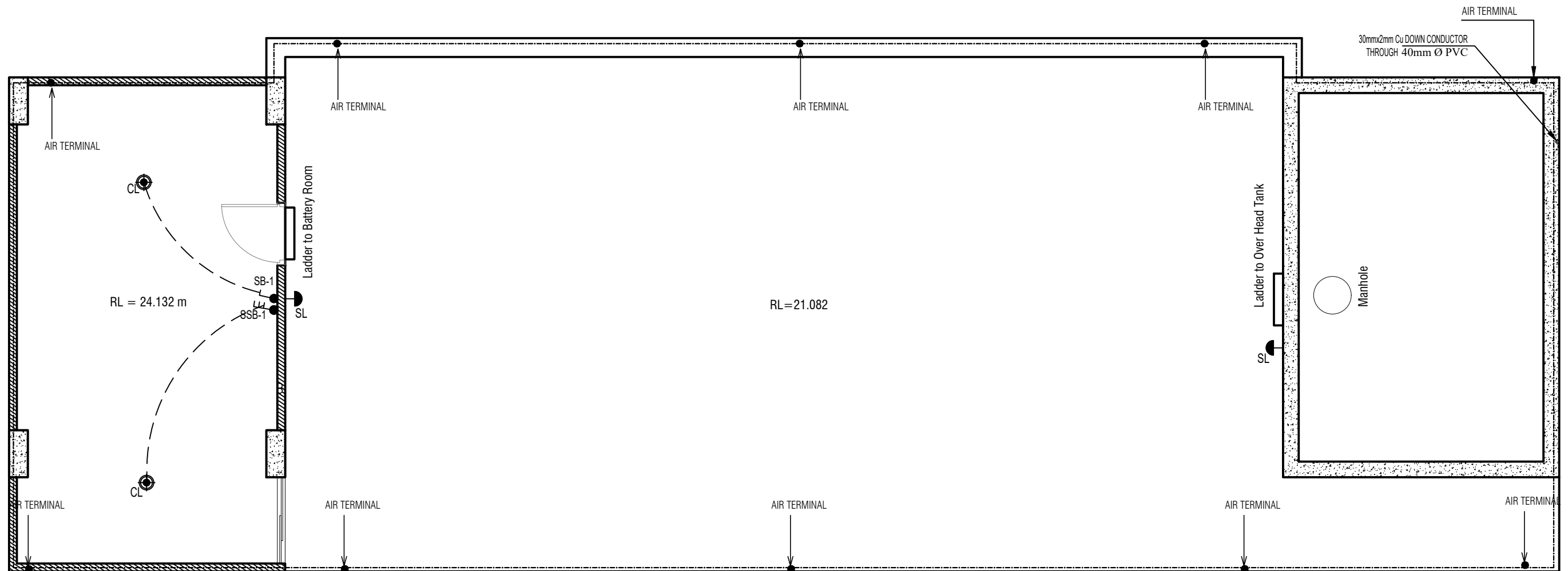
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					Revision No:			SCALE
					Issued for Tender			As Shown






Ground Floor IPS Layout Plan

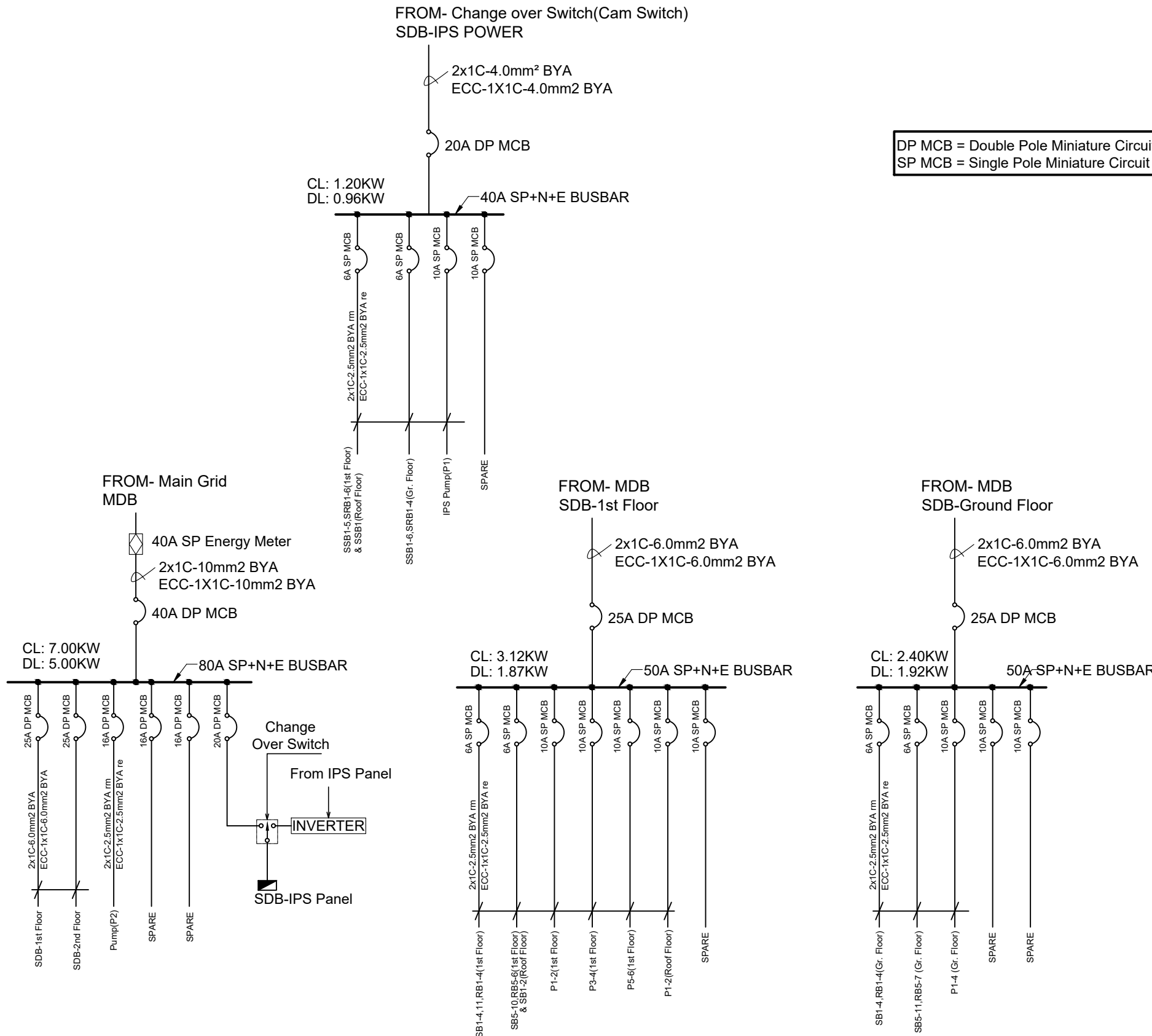
EXISTING BUILDING

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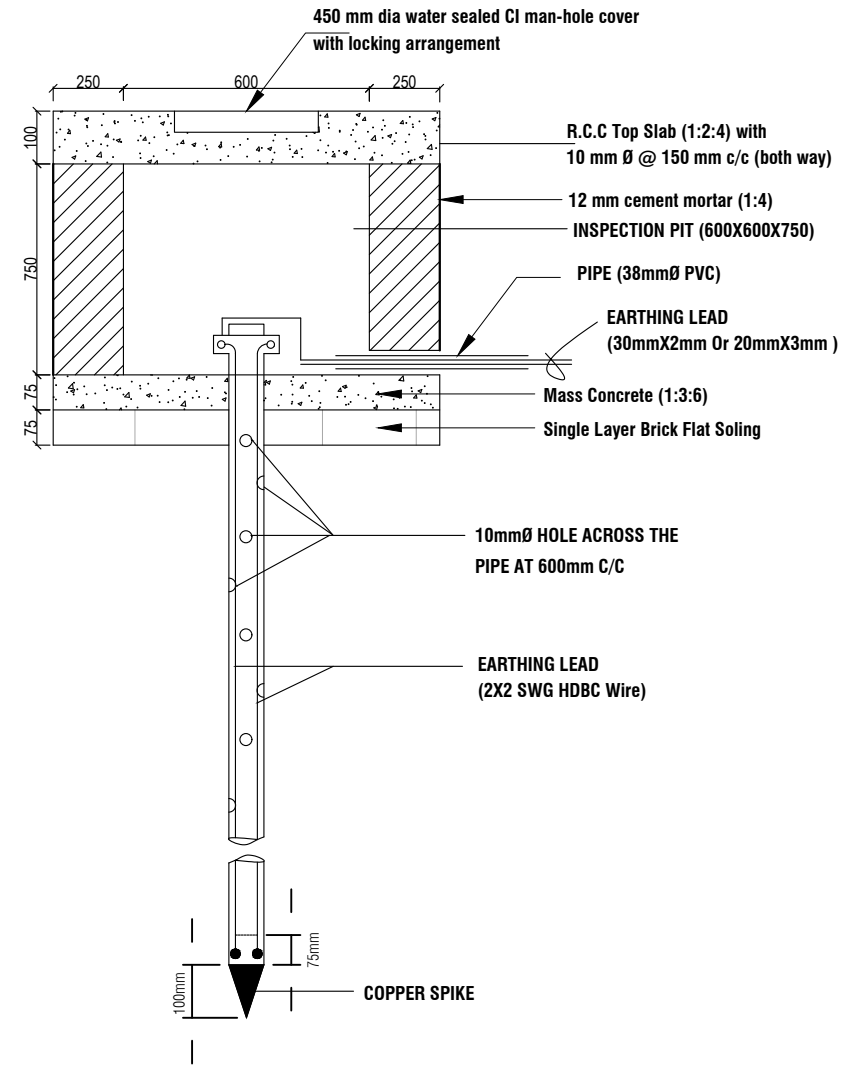


**Battery Room Floor IPS Layout Plan with
Lightning Protection System**


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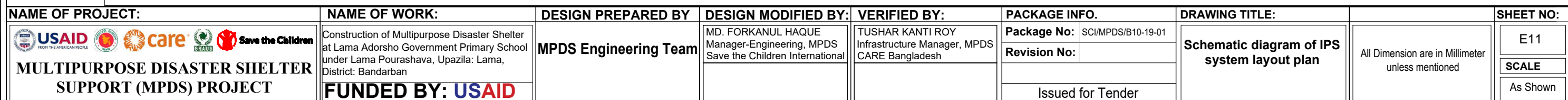


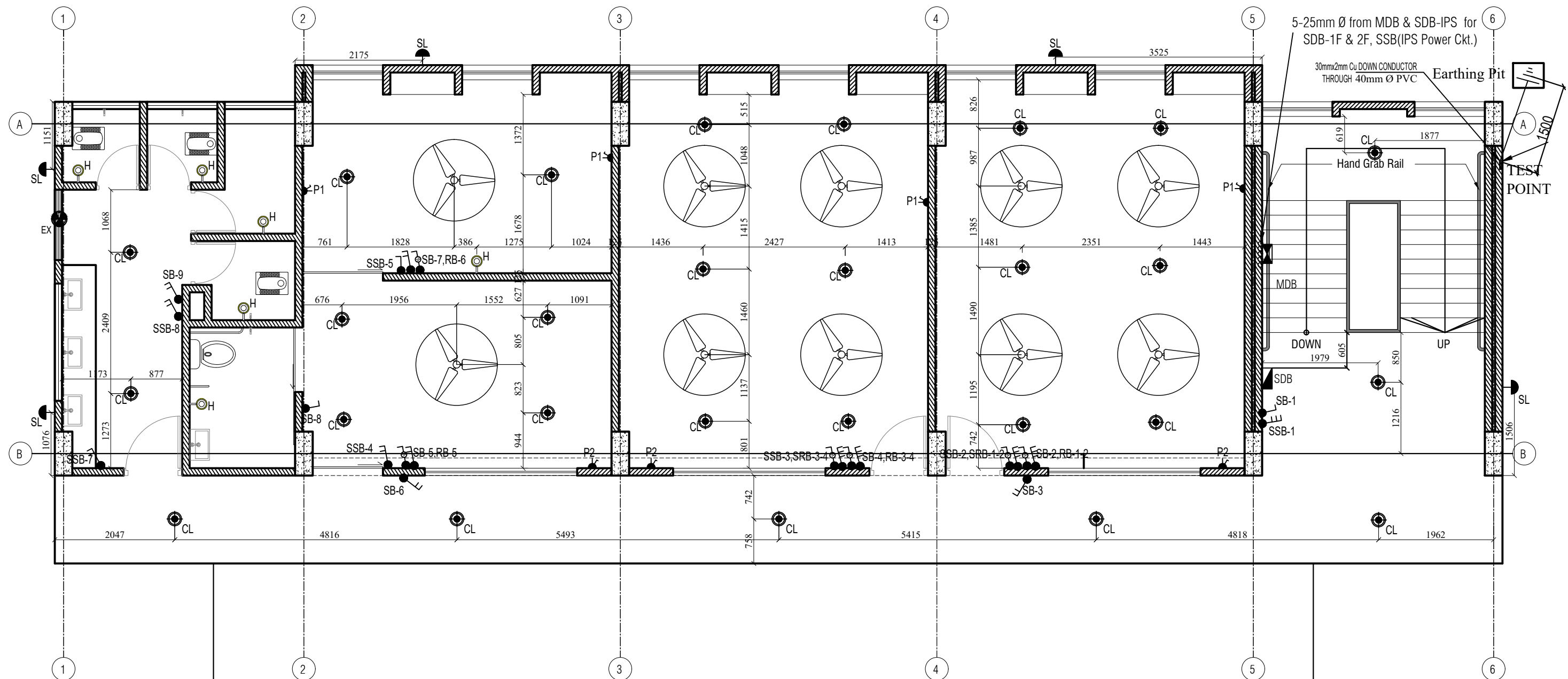
DP MCB = Double Pole Miniature Circuit Breaker
SP MCB = Single Pole Miniature Circuit Breaker



38mm Ø GI PIPE EARTHING DETAILS FOR LPS
SUNK TO A DEPTH 12000mm (MINIMUM)
Earth resistance of Lightning protection System :
10Ω (as per NFPA780)
Air terminal to Air terminal distance ≤ 8Meter (as per NFPA780)




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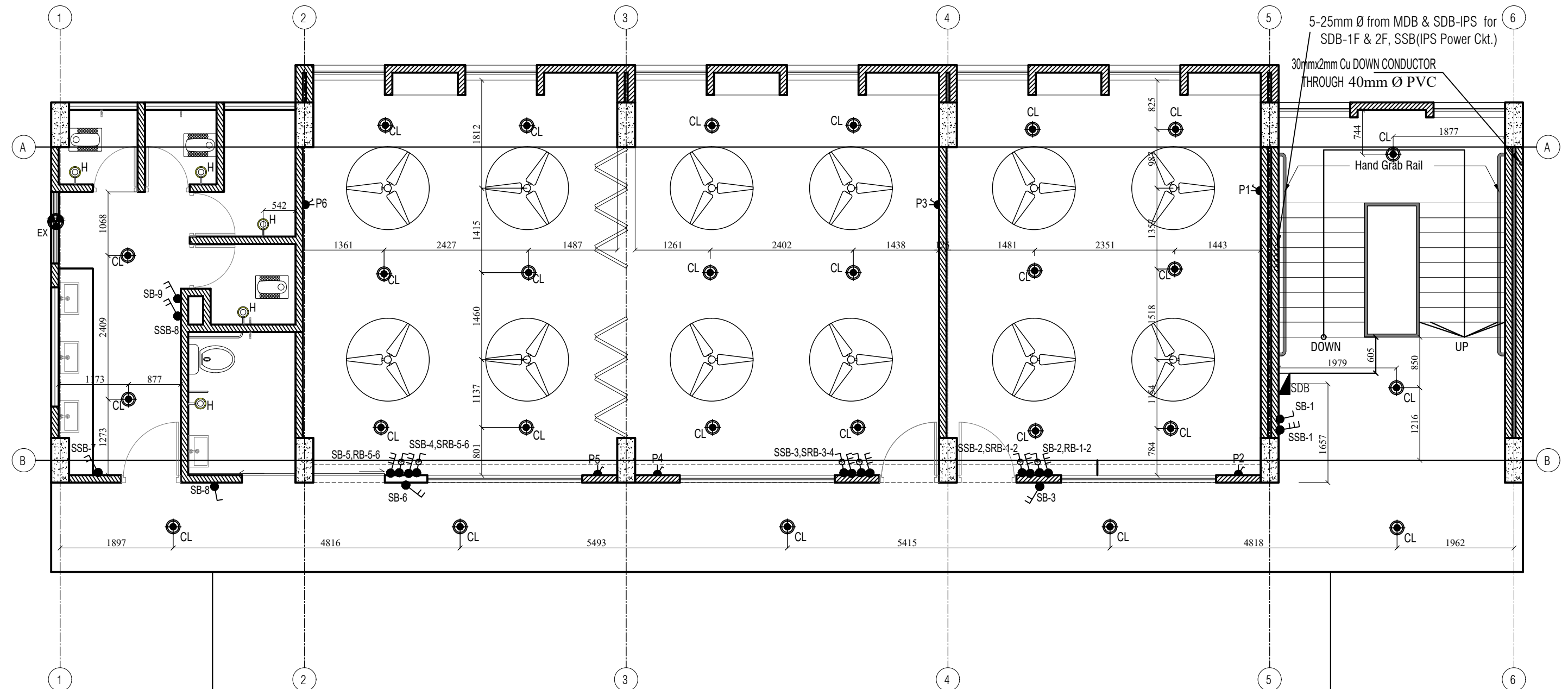




Ground Floor Electrical Fixture Layout Plan




EXISTING BUILDING

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First Floor Electrical Fixture Layout Plan

EXISTING BUILDING

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