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		THIMPHU, BHUTAN. 17656338	
		PROJECT TITLE	
		PROPOSED TICL STORE AT PHUNTSHOLING, CHUKHA	
		ELE. ENGINEER	
		MR. SANGAY DORJI	
		CLIENT	
		TASHI INFOCOM LIMITED	
		DRAWING TITLE	
		ELECTRICAL DRWINGS	
		NOTES	
		1. ALL DIMENSIONS ARE MILLIMETERS(MM) UNLESS OTHERWISE SPECIFIED. 2. DIMENSIONS ARE TO BE READ NOT TO BE MEASURED OR SCALED OFF. 3. ONLY APPROVED DRAWINGS SHALL BE USED UNLESS AS MENTIONED BY DESIGNERS.	
		DATE	24-Aug-23
		SCALE	NTS
		DWG No	E _{LE} 1/19

SPECIFICATION FOR ELECTRICAL WORKS

- 1) All Light point wiring shall be with 1.5 sq.mm PVC insulated fire resistant copper conductor 1.1kV grade in recessed HDPE pipe.
- 2) All Light Circuit wiring shall be with 2.5 sq.mm PVC insulated fire resistant copper conductor 1.1kV grade in recessed HDPE pipe.
- 3) All power point wiring shall be with 4 sq.mm PVC insulated fire resistant copper conductor 1.1KV grade in recessed HDPE pipe.
- 4) All wall fixtures to be fixed at 2.75M above the F. floor level.
- 5) All light switch boards should be at 1.5M above the F.floor level.
- 6) All power points to be fixed at 0.3M from F. floor level except 1.5M in Kitchen & toilet.
- 7)Minimum size of pipe/ conduit is 19 mm dia.
- 8) No phase difference is permitted in the same conduit.
- 9) All switch board should be 0.23M away from the door & edge of wall.
- 10) All SDB shall be fixed at 2 M above finish floor level.
- 11) Power point shall not be looped.
- 12) Telephone & Television shall be drawn in different conduit.
- 13) MDB (Main Distribution Board) shall be at the Ground floor.

































SPECIFICATION FOR TELEPHONE & TV WORKS:

1. Telephone & TV cable duct shall be with 25mm dia. conduit
2. Telephone and Television cable duct must be atleast 0.5m away from Electrical route.
3. Telephone Terminal Cabinet (TTC) at 1.5M above finished floor level and should be water tight and moisture proof.
4. Telephone socket outlet shall be with 2pin, RJ-11 at 25cm above finished floor level.
5. Bridge method should be followed at the crossing.
6. Telephone and TV lines shall be routed through seperate ducts.

TEST RESULTS:

1. POLARITY TEST :All the switches must be on the live conductor.
2. INSULATION TEST : Minimum test result should not be less than 1 MEGA OHM.
3. EARTH CONTINUITY TEST : Low voltage lamp test should satisfy the whole insulation.
4. EARTH TEST : Test results should be within 5 OHM.

LEGEND

-  Ceiling fan, 60W
-  1x80 Watts- 300mm Exhaust fan
-  1x 60 Watts Buzzer Call bell
-  1x40 watts- Fluorescent tube rod
-  1x60 Watts- Drumlite Surface Fitting
-  1x18 Watts- Decorative Wall Bracket Fitting
-  Conduit route
-  Sub-Distribution board
-  Main Distribution Board
-  Three phase, 4 wire Energy meter with CT connected
-  6A, Two way switch (Modular)
-  6A, One way switch (Modular)
-  6A, two way switch (Modular)
-  6A, Three way switch (Modular)
-  6A, Four way switch (Modular)
-  6A, Five way switch (Modular)
-  6A, Six way switch (Modular)
-  6A, Seven way switch (Modular)
-  6A, Eight way switch (Modular)
-  6A, Bell push (Modular)
-  Electronic fan regulator (Modular)
-  3 pin, 6A light socket outlet
-  5/6 pin, 16A-2000W switch socket outlet
-  Cable TV point 0.3m above FFL
-  Telephone point at 0.3m height
-  Telephone terminal cabinet (TTC)
-  TV terminal cabinet (TVC)
-  TV terminal cabinet (TVC)
-  Mirror light, 40W
-  3P Industrial Socket Outlet, 32A, 7680 W
-  LED Street light, 50 W
-  LED Compound light, 50 W



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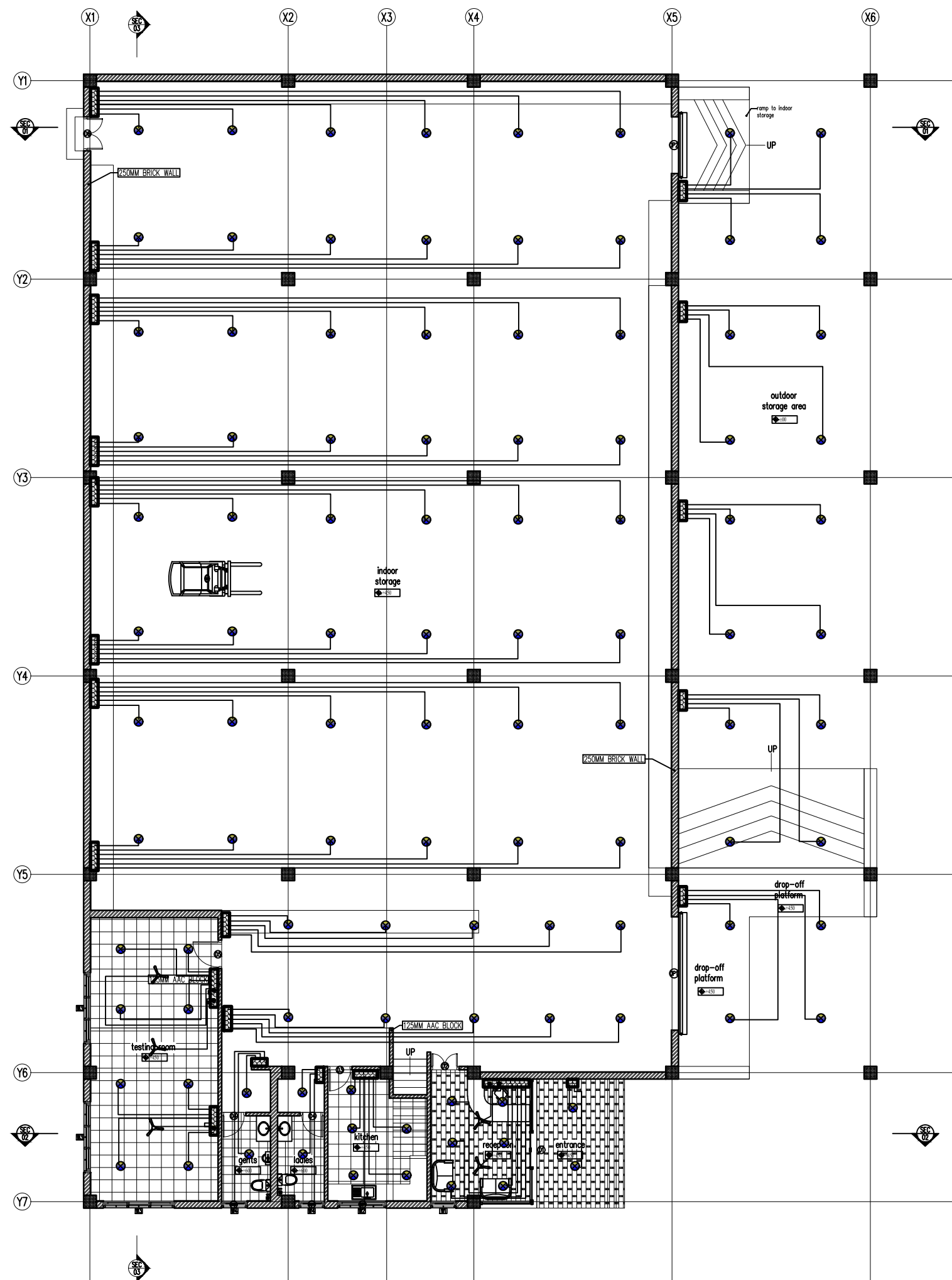
DRAWING TITLE

LEGENDS & SPECS.

NOTES

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DRAWING TITLE

LIGHTPOINT AND ITS FITTING LAYOUT - GF

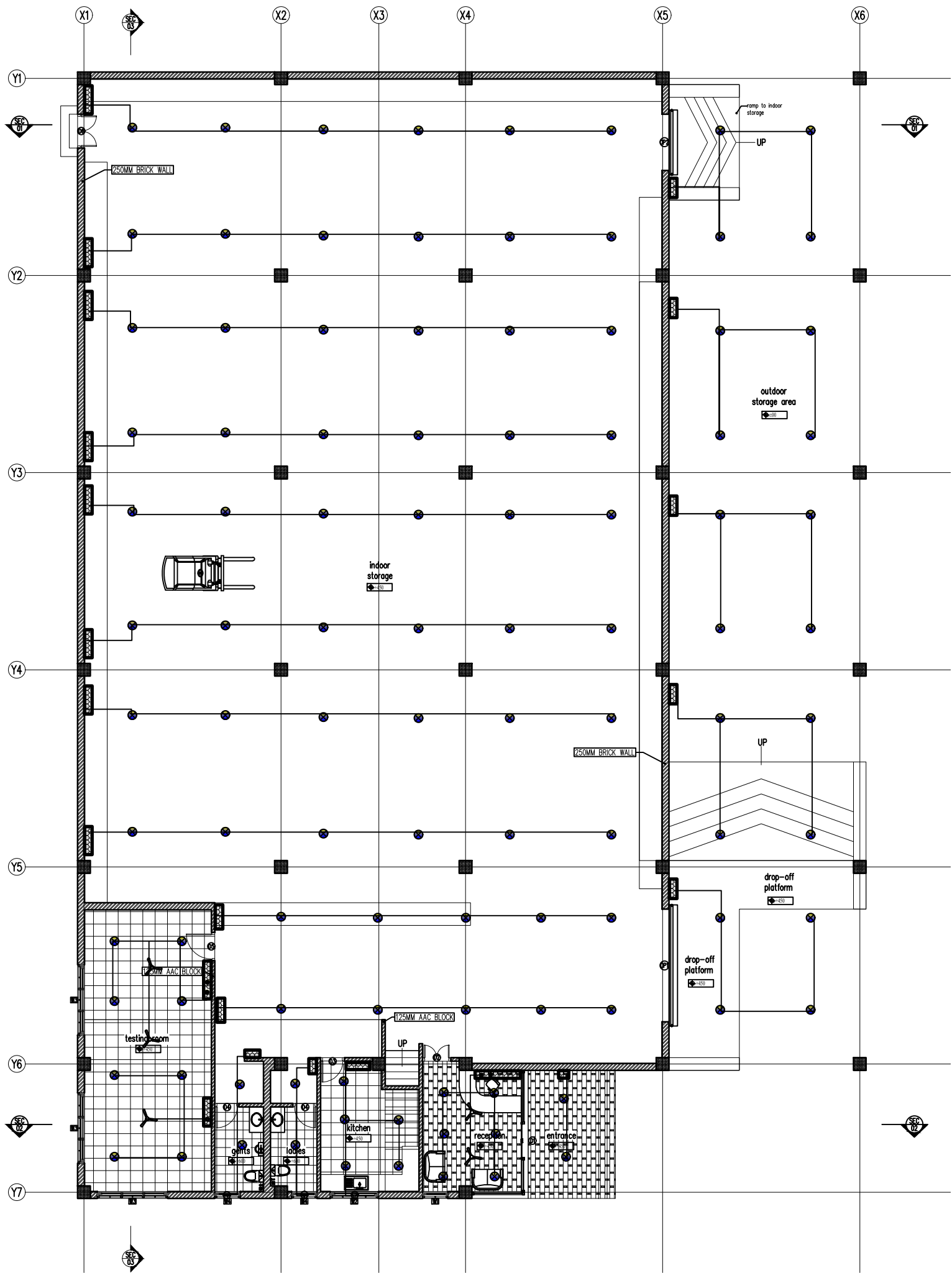
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DATE	24-Aug-23
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SCALE	NTS
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DWG No	E _{LE} 2/19
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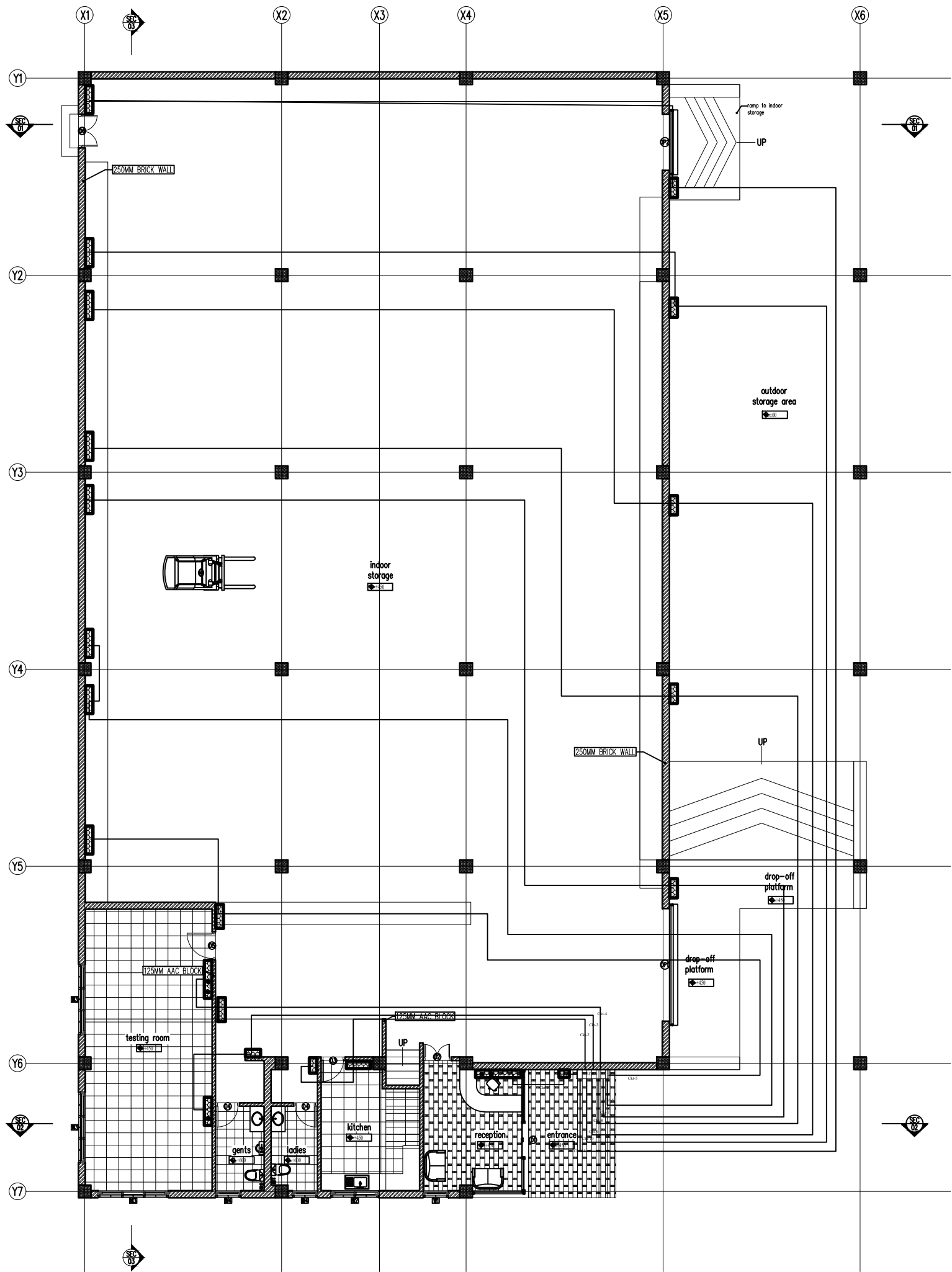
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LIGHT POINT CONDUIT LAYOUT
-GF

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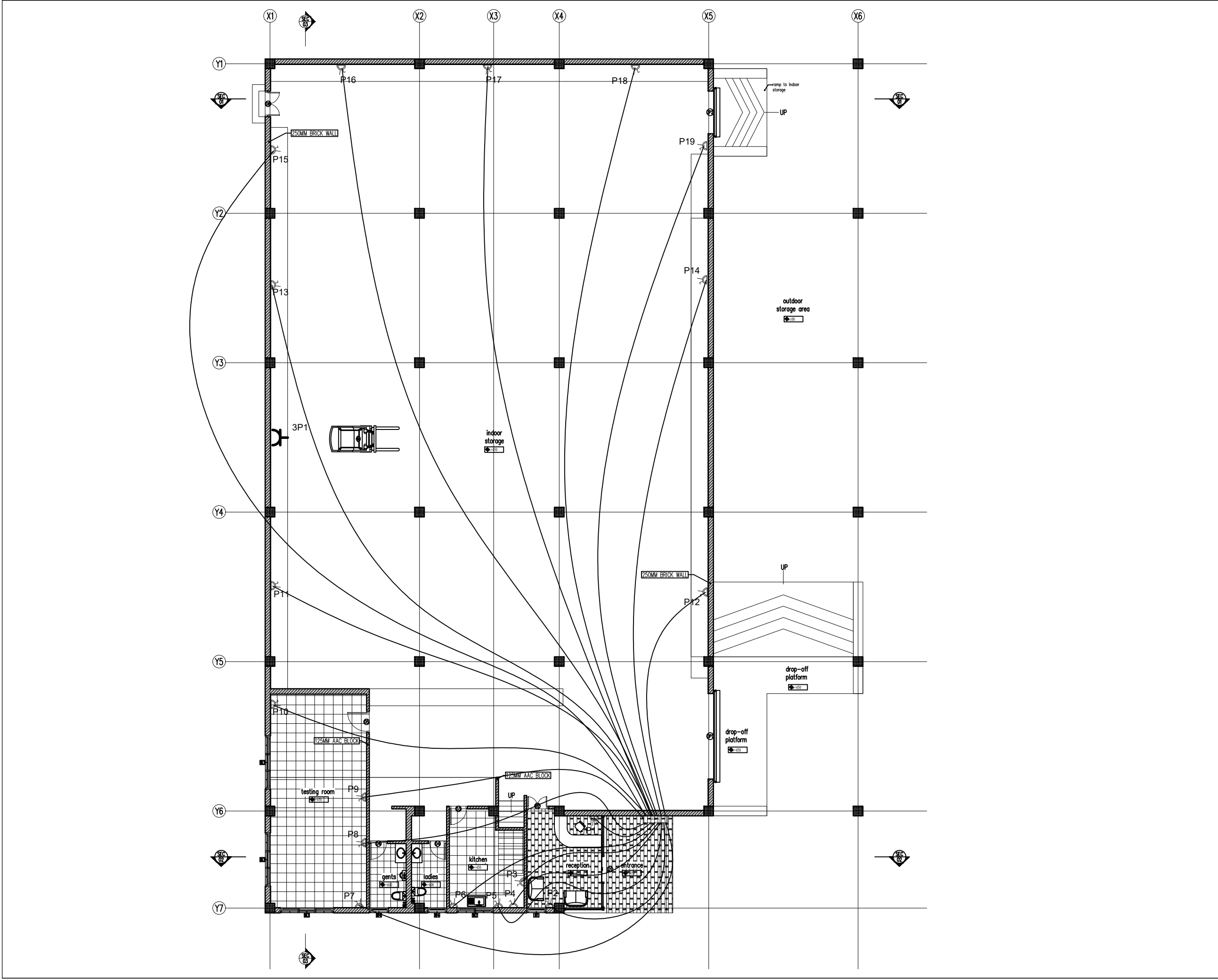
DRAWING TITLE

LIGHT CIRCUIT LAYOUT- GF

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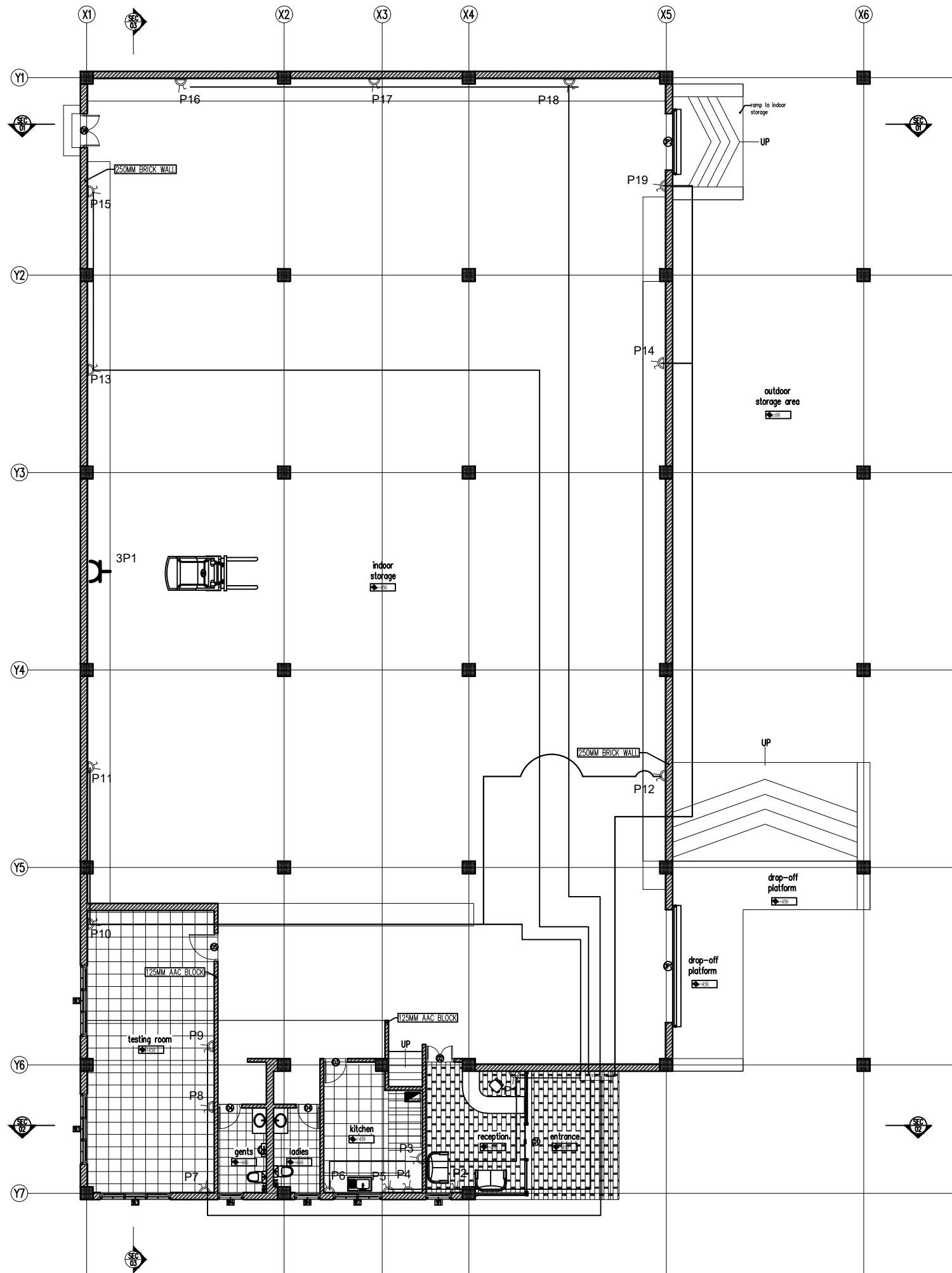
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POWERPOINT & ITS WIRING
LAYOUT - GF

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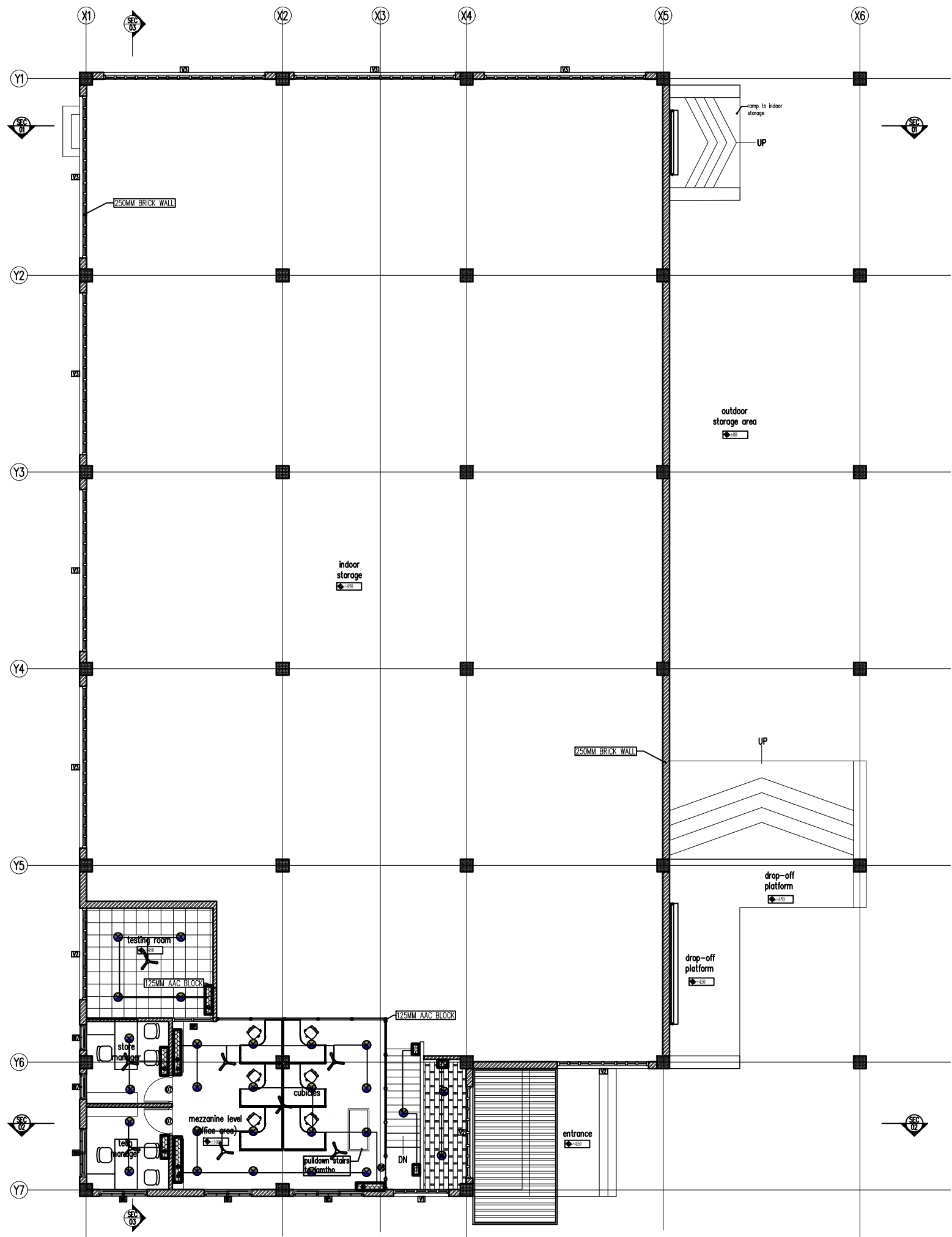
DRAWING TITLE

POWERPOINT CONDUIT
LAYOUT - GF

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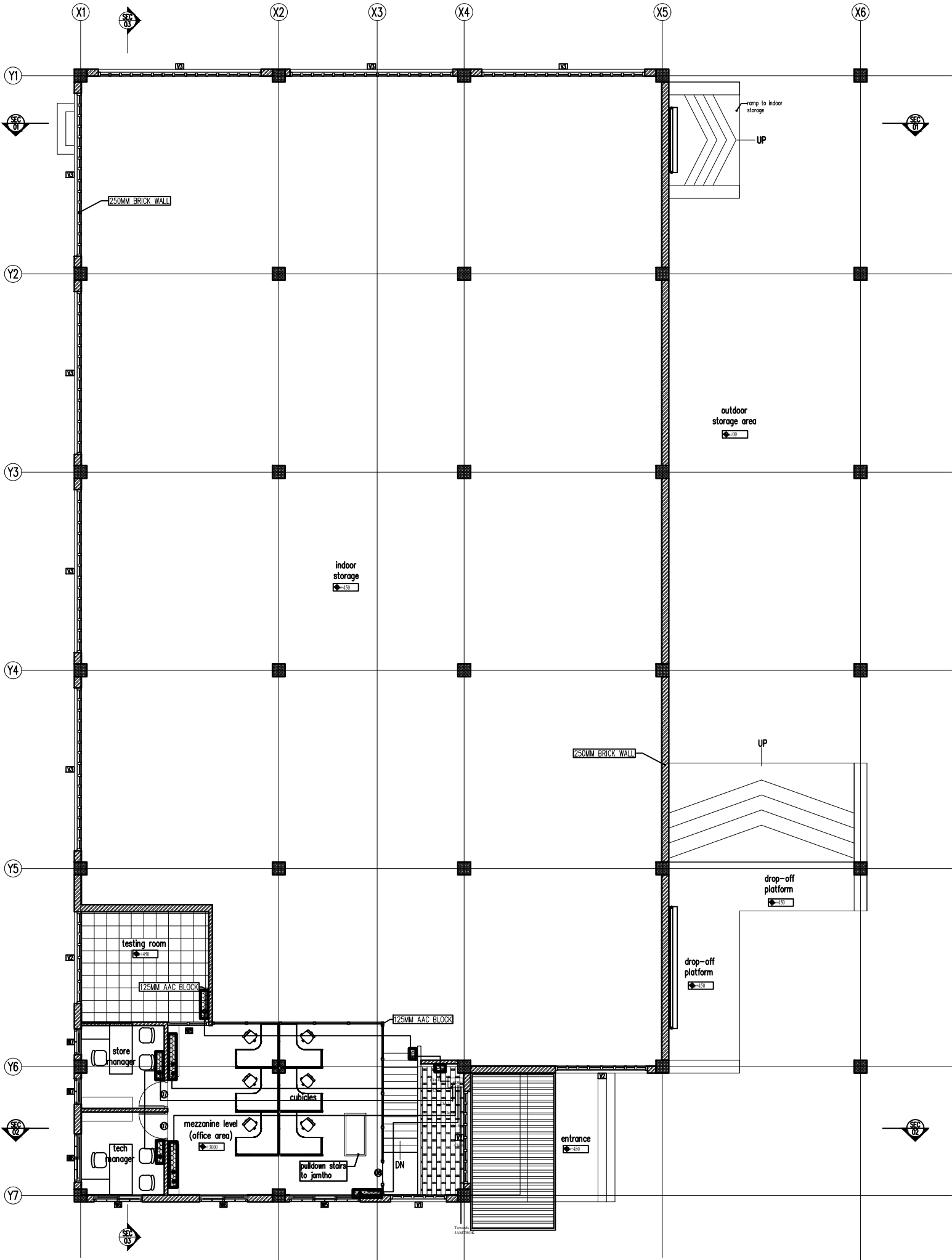
ELE. ENGINEER
MR. SANGAY DORJI

CLIENT
TASHI INFOCOM LIMITED

DRAWING TITLE
LIGHT POINT CONDUIT LAYOUT
- MEZZANINE

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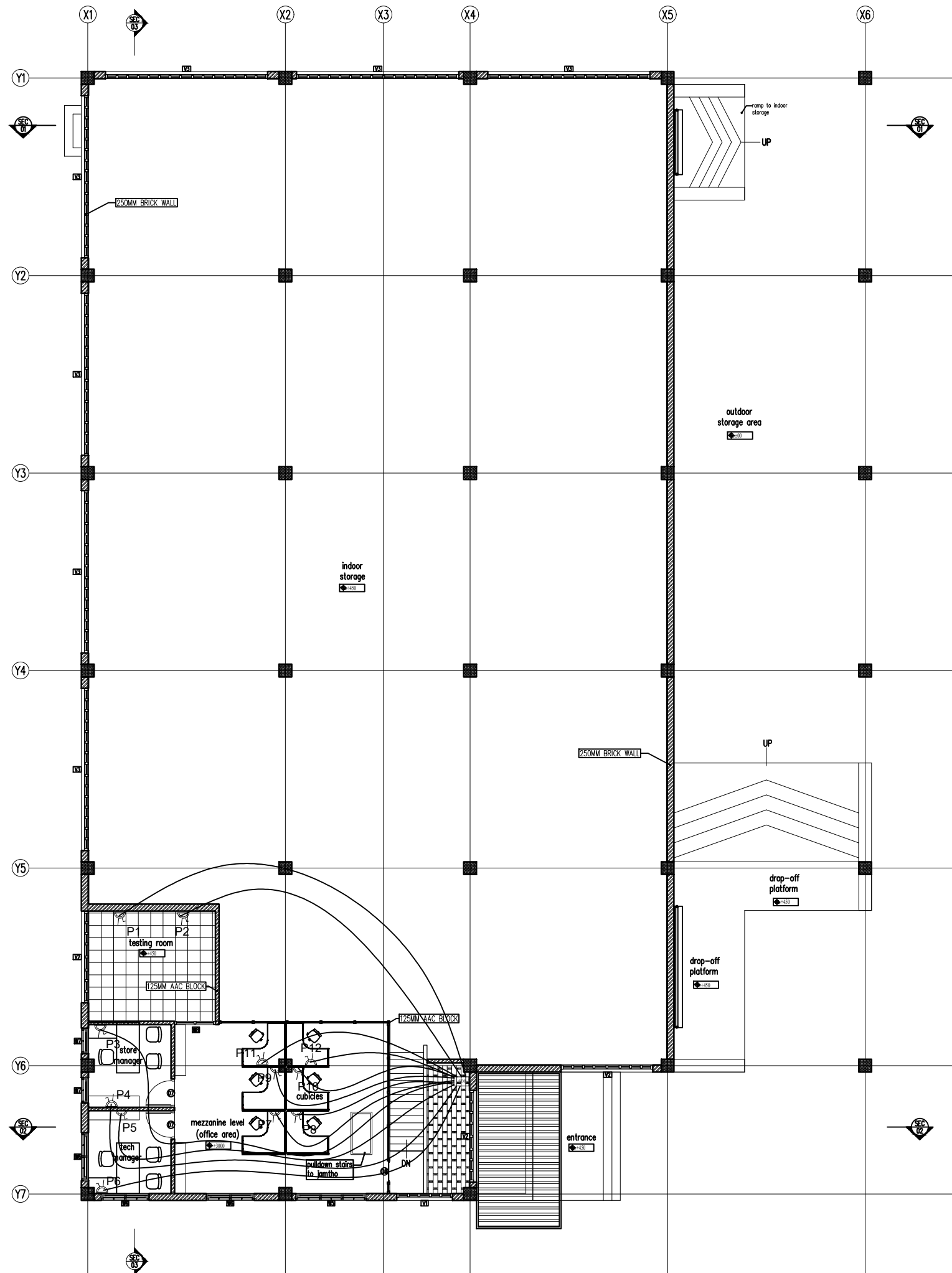
DRAWING TITLE

LIGHT CKT. LAYOUT
- MEZZANINE

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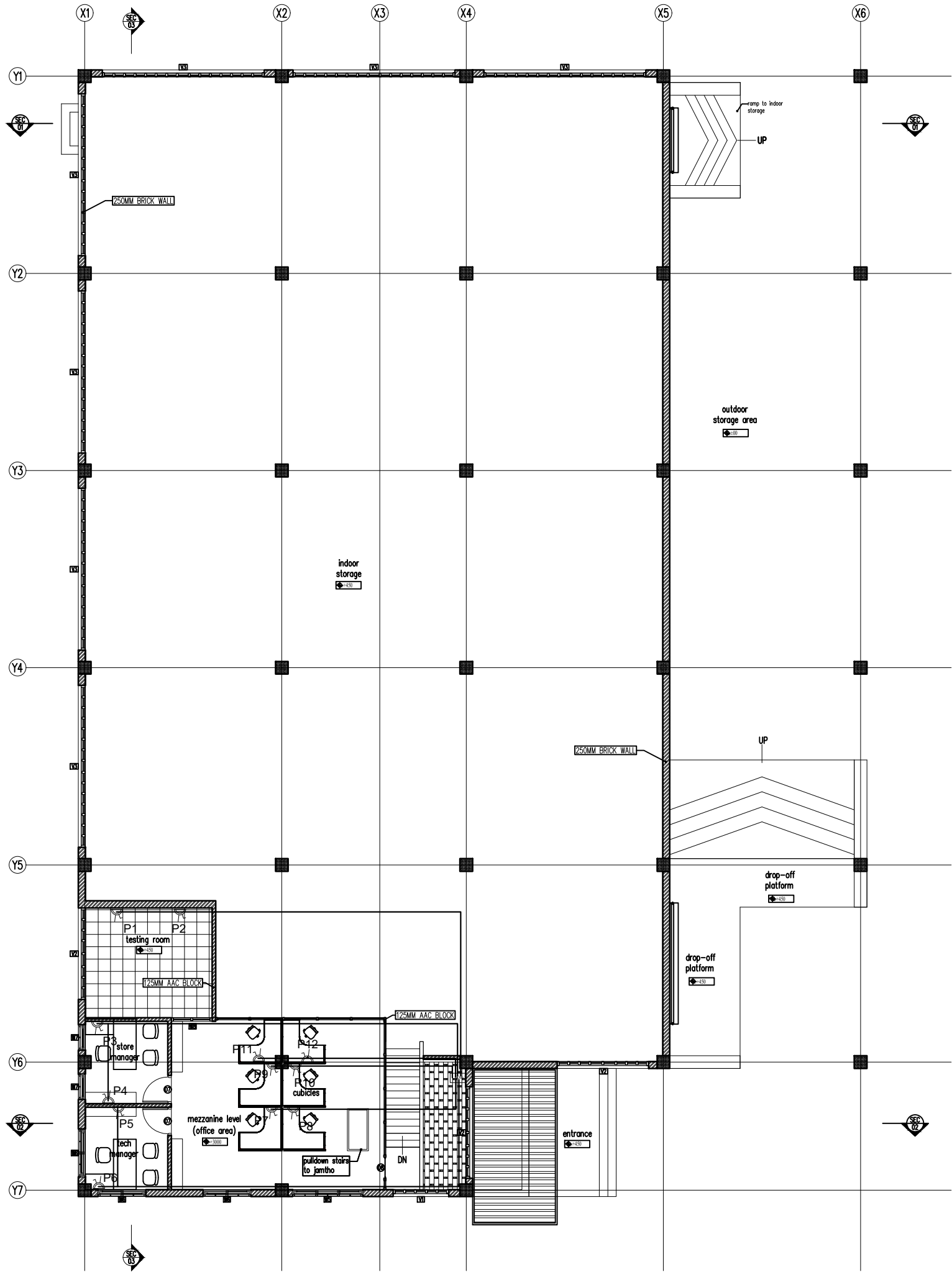
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POWERPOINT & ITS WIRING
LAYOUT - MEZZANINE

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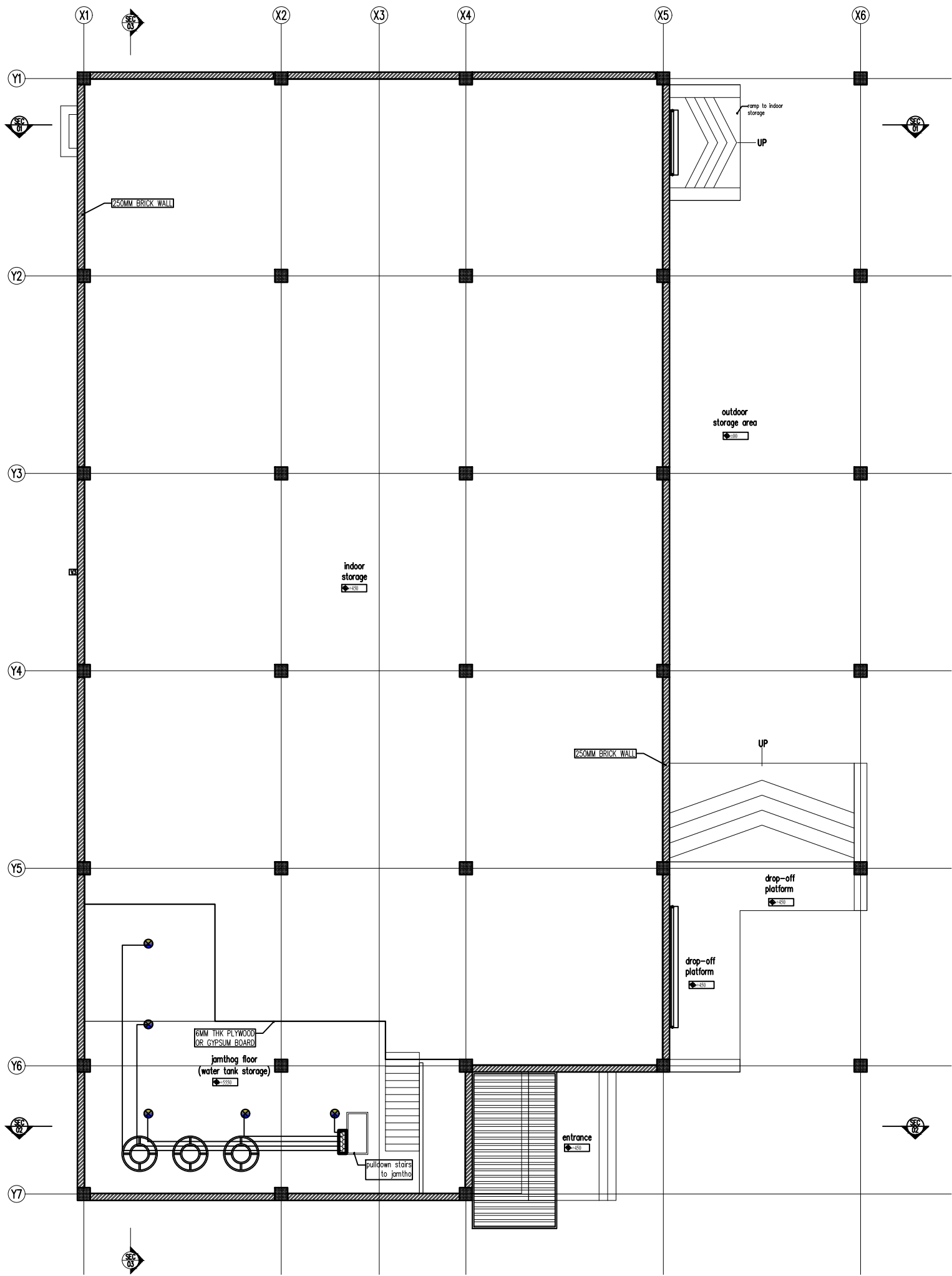
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POWERPOINT CONDUIT LAYOUT
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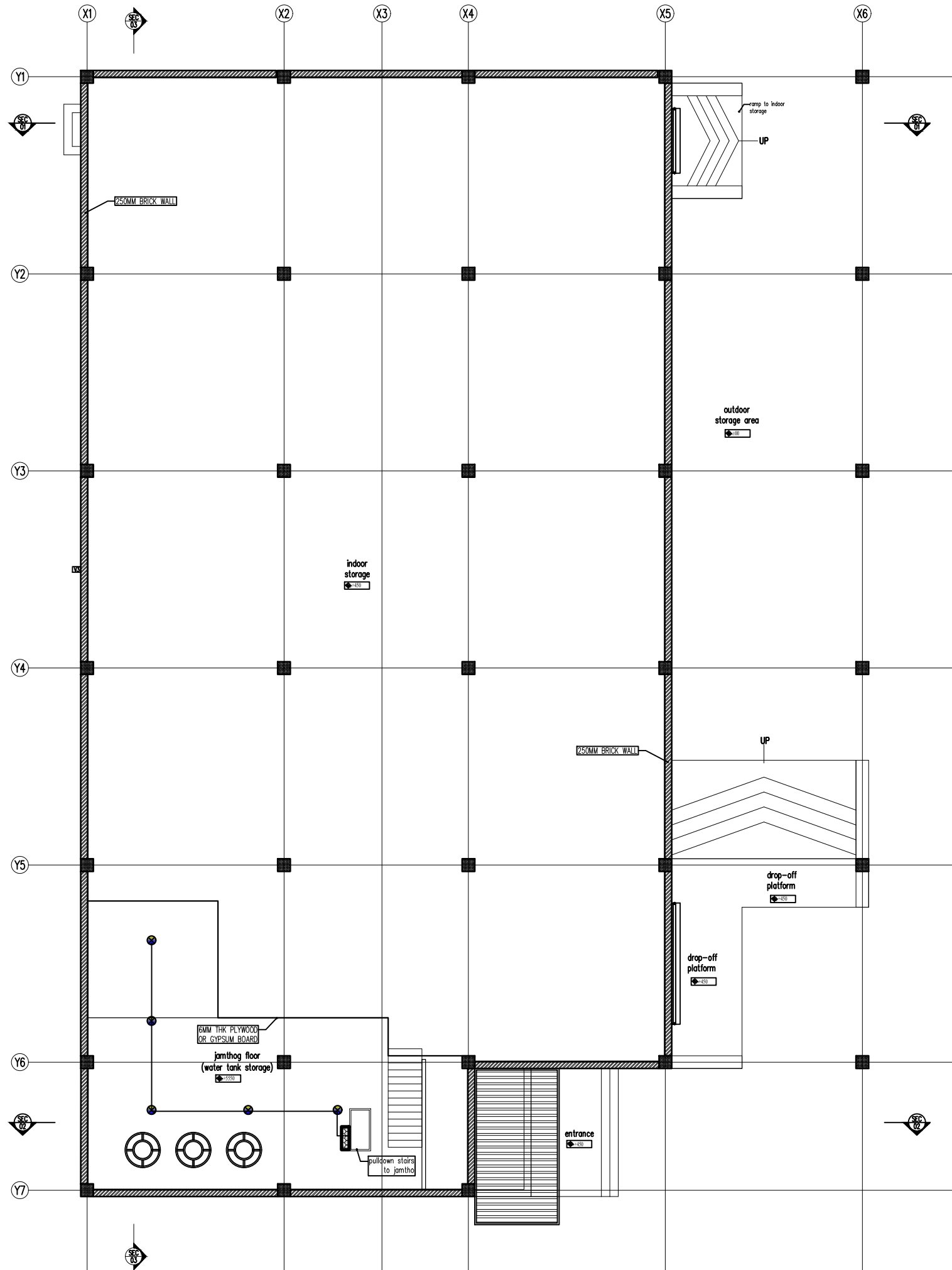
DRAWING TITLE

LIGHTPOINT & ITS FITTINGS
LAYOUT - JAMTHOG

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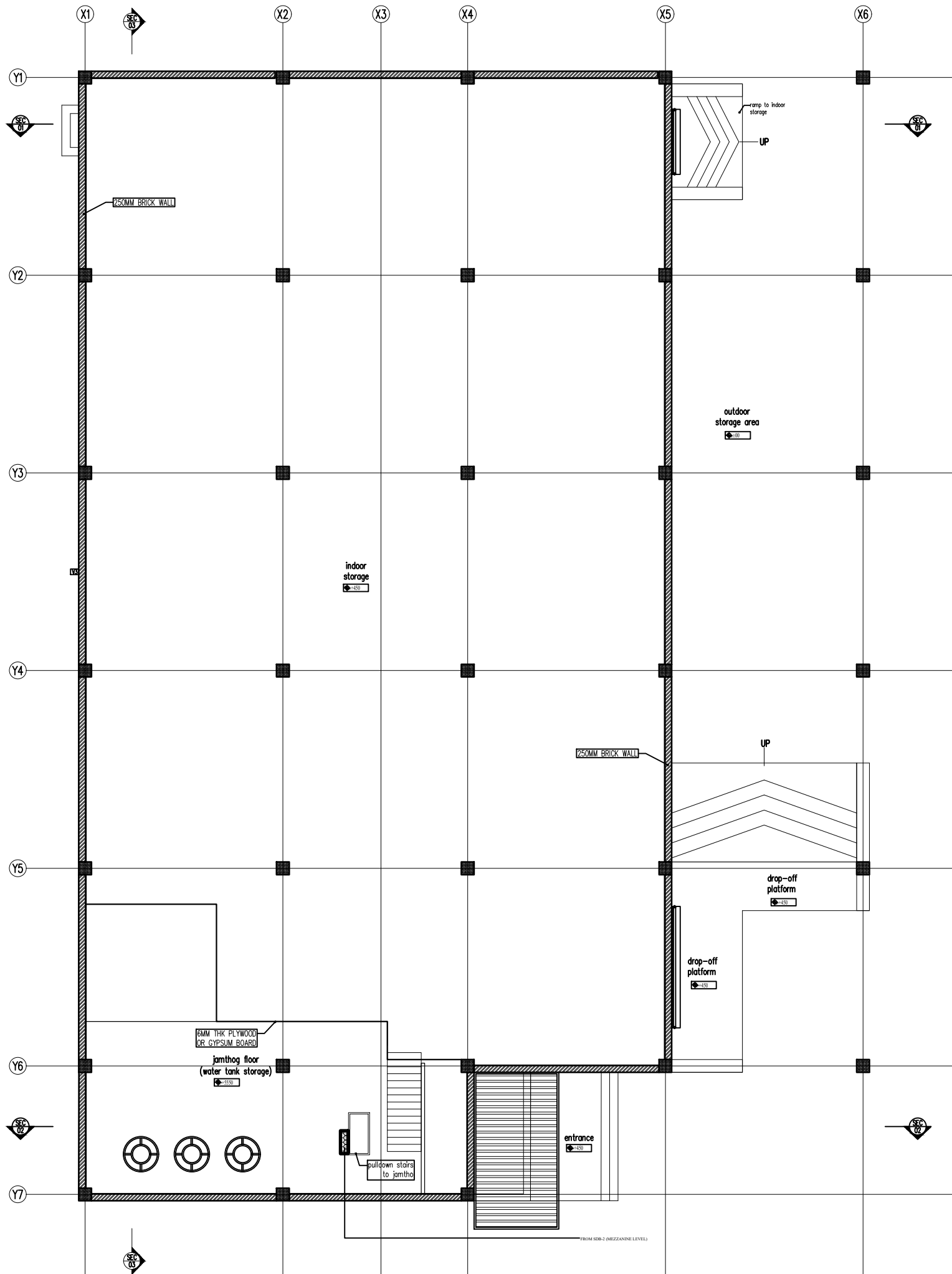
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LIGHTPOINT CONDUIT LAYOUT
- JAMTHOG

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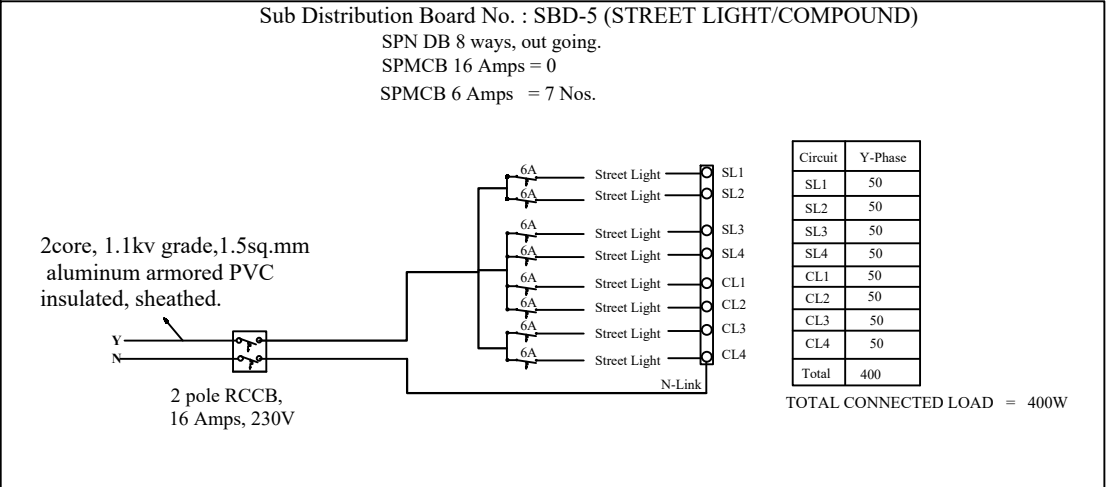
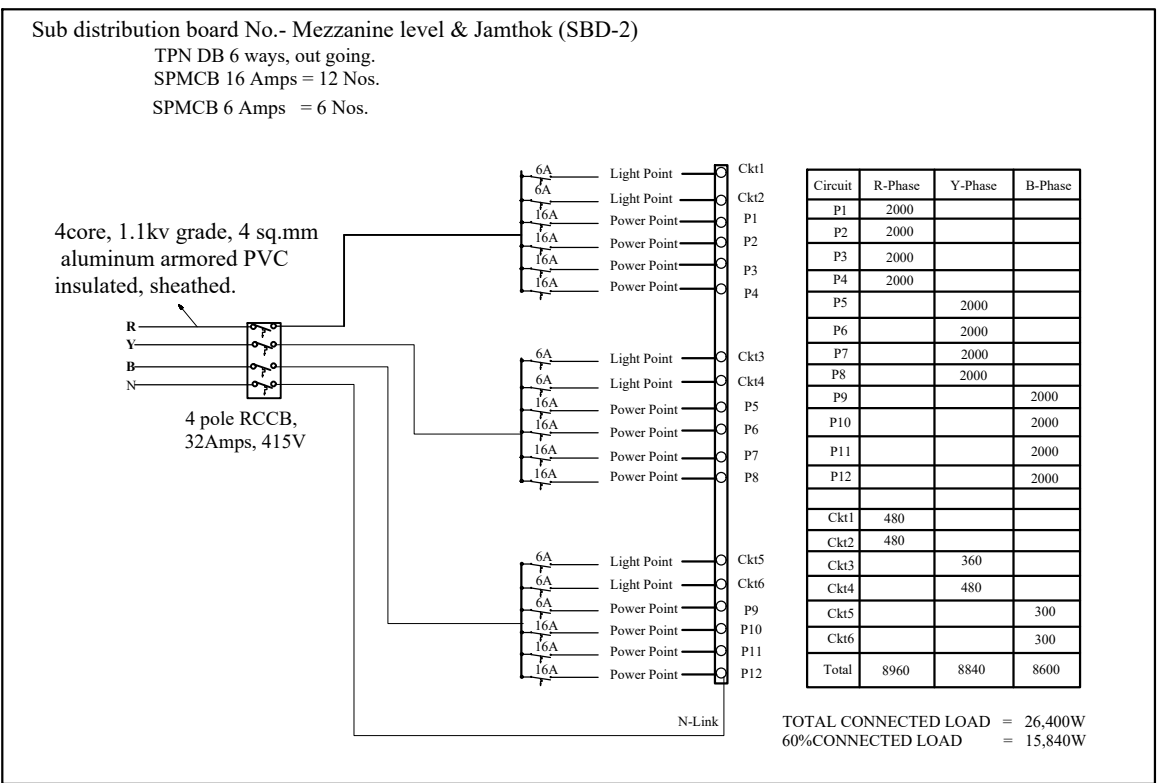
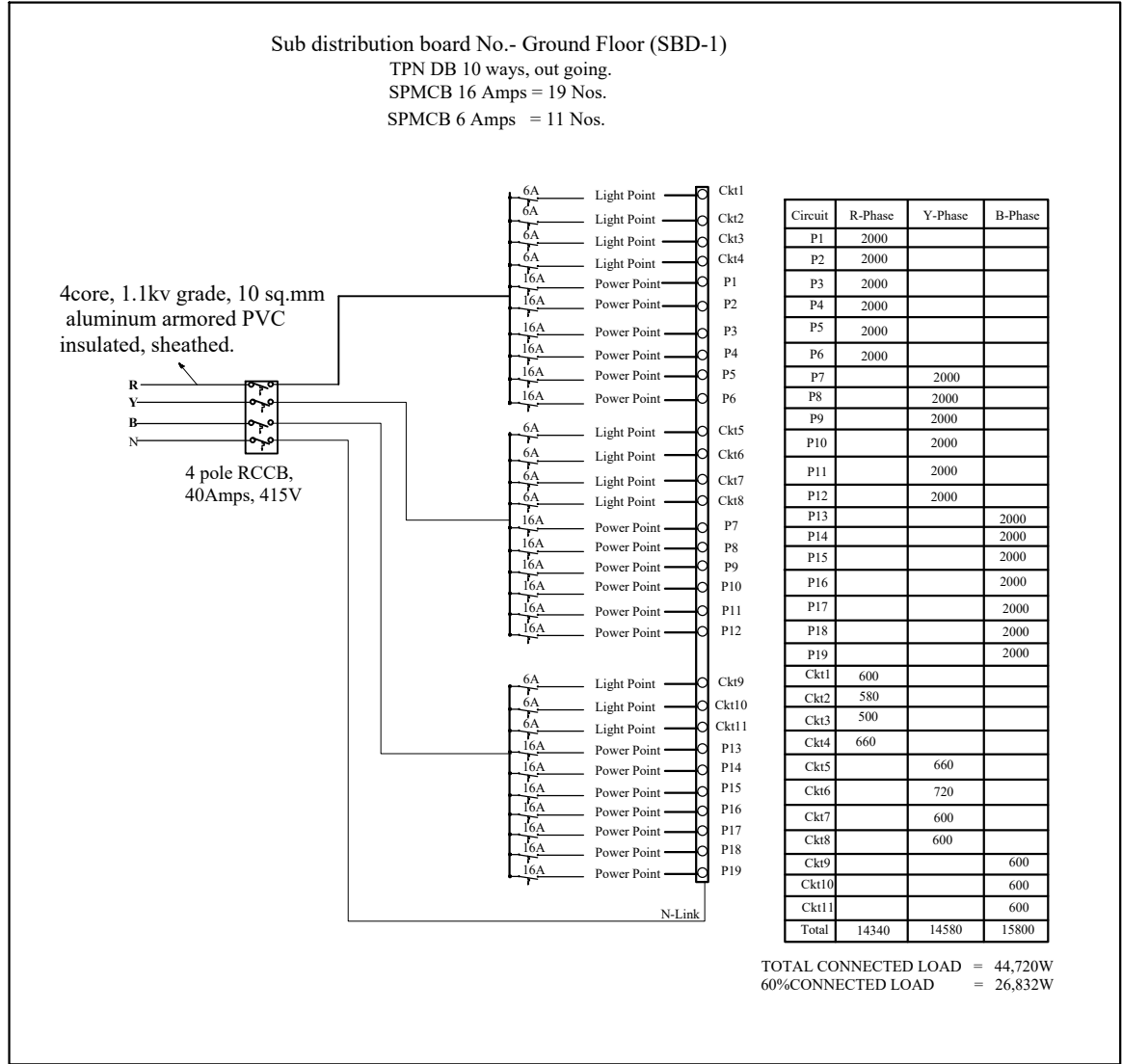
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LIGHT CKT. LAYOUT-JAMTHOG

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DATE	24-Aug-23
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DRAWING TITLE

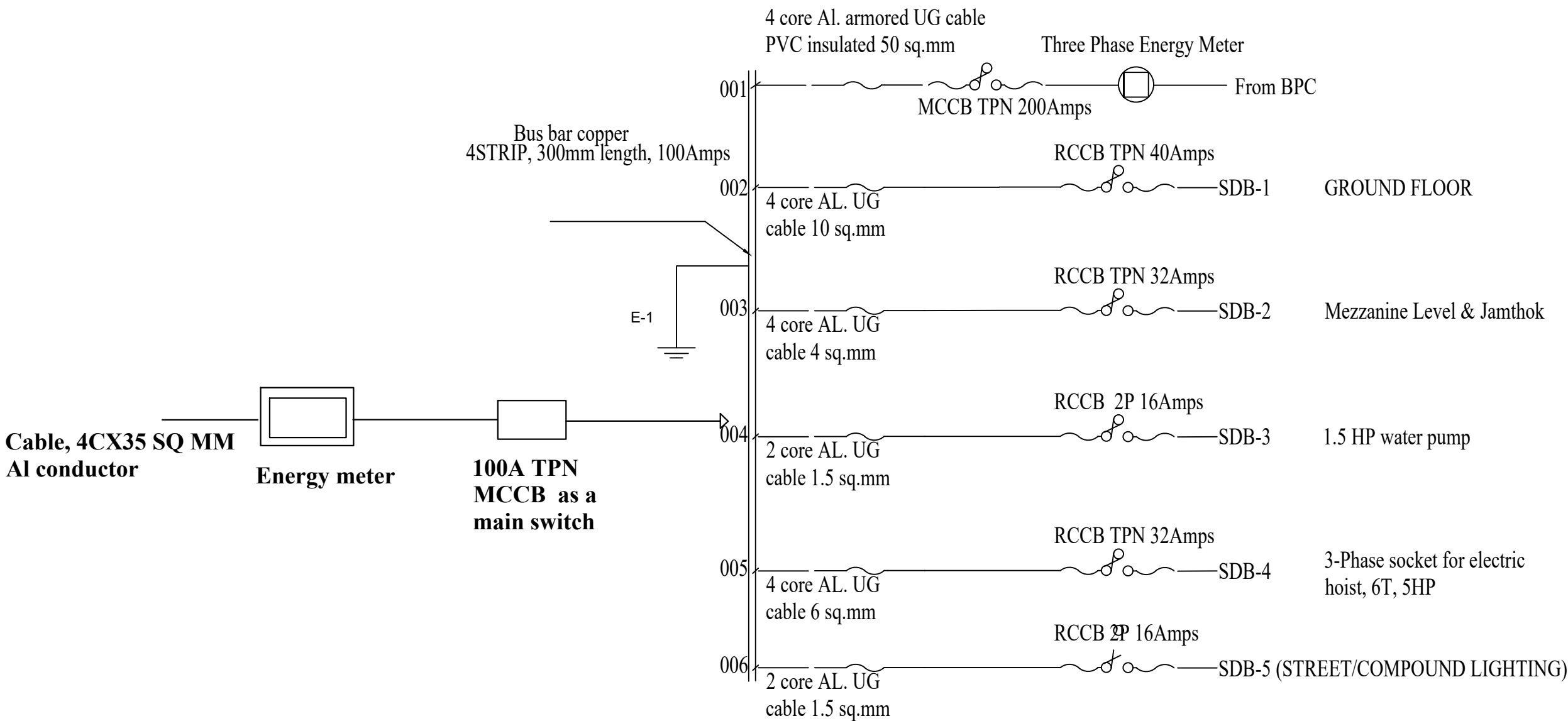
DB DETAILS

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DATE	24-Aug-23
SCALE	NTS
DWG No	E _{LE} 15/19

MAIN CONTROL PANEL BOARD

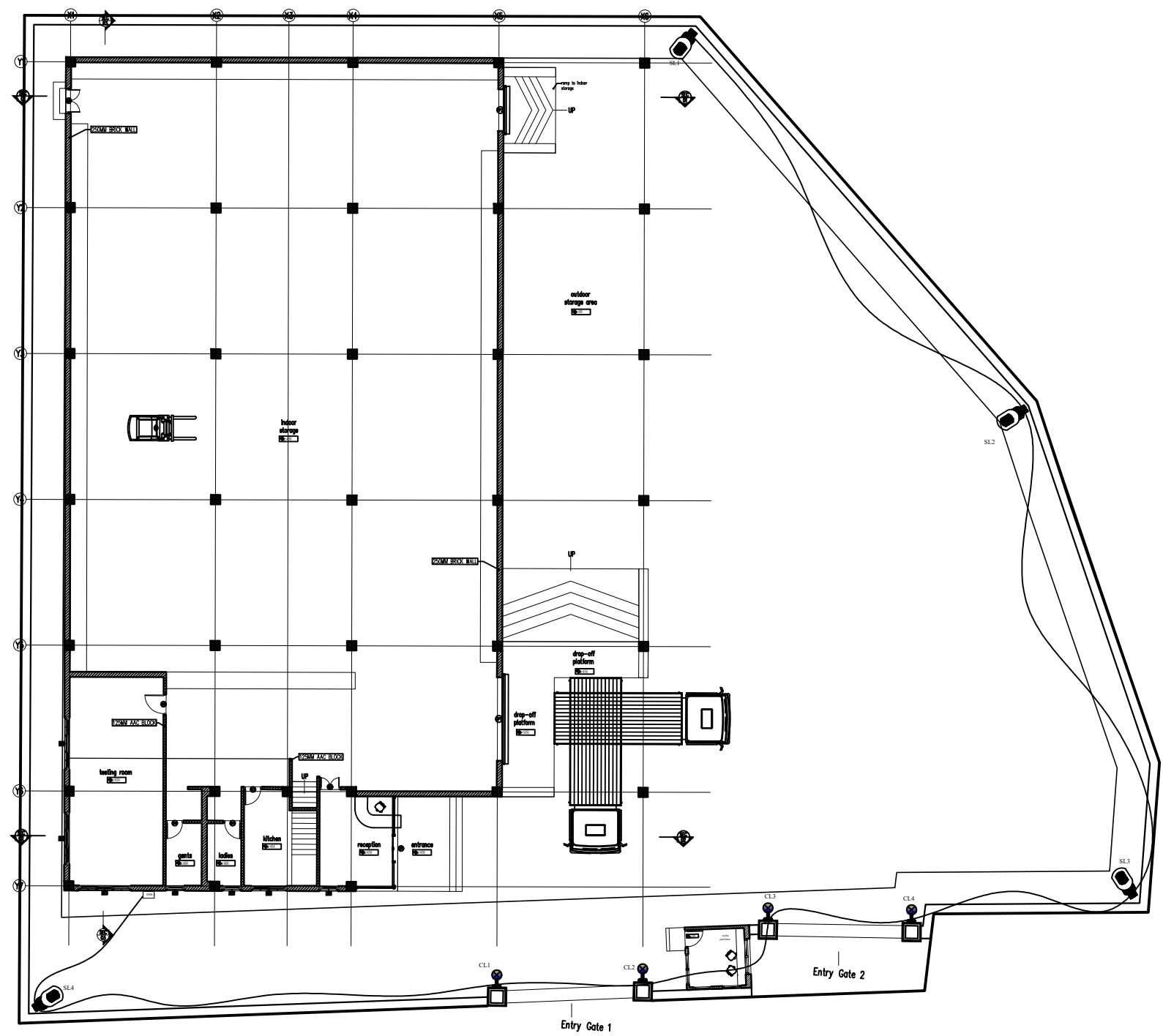


Note :
Total Connected load = 76.37 kW
Load factor considered = (60%)
Power Factor = (0.85)
Full load Current = 124.99 Amps
Current (60% load) = 74.99 Amps



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MAIN CONTROL PANEL	
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STREET LIGHT POINT AND ITS WIRING LAYOUT

<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div>A.S.C BUILT-IN STUDIO</div><div>DESIGN YOUR DREAMS WITH US</div></div></div></div></div>	
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STREET/COMPOUND LIGHTING LAYOUT	
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LOAD TABLE

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DATE24-Aug-23

SCALENTS

DWG NoELE 18/19

LOAD TABLE OF THE BUILDING

SDB No.	Red phase	Yellow phase	Blue phase	Total
SDB-1	14340	14580	15800	44720
SDB-2	8960	8840	8600	26400
SDB-3	1119			1119
SDB-4	1244	1244	1244	3732
SDB-5		400		400
Total	25663	25064	25644	76,371

Total connected load of the building76.37 kW

Total demand load (60%)45.82 kW

Current(I=P/(1.732X415X0.85)) Amps124.99 Amp

Current(I=P/(1.732X415X0.85)) Amps (60% Load)74.99 Amp

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EARTHING

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