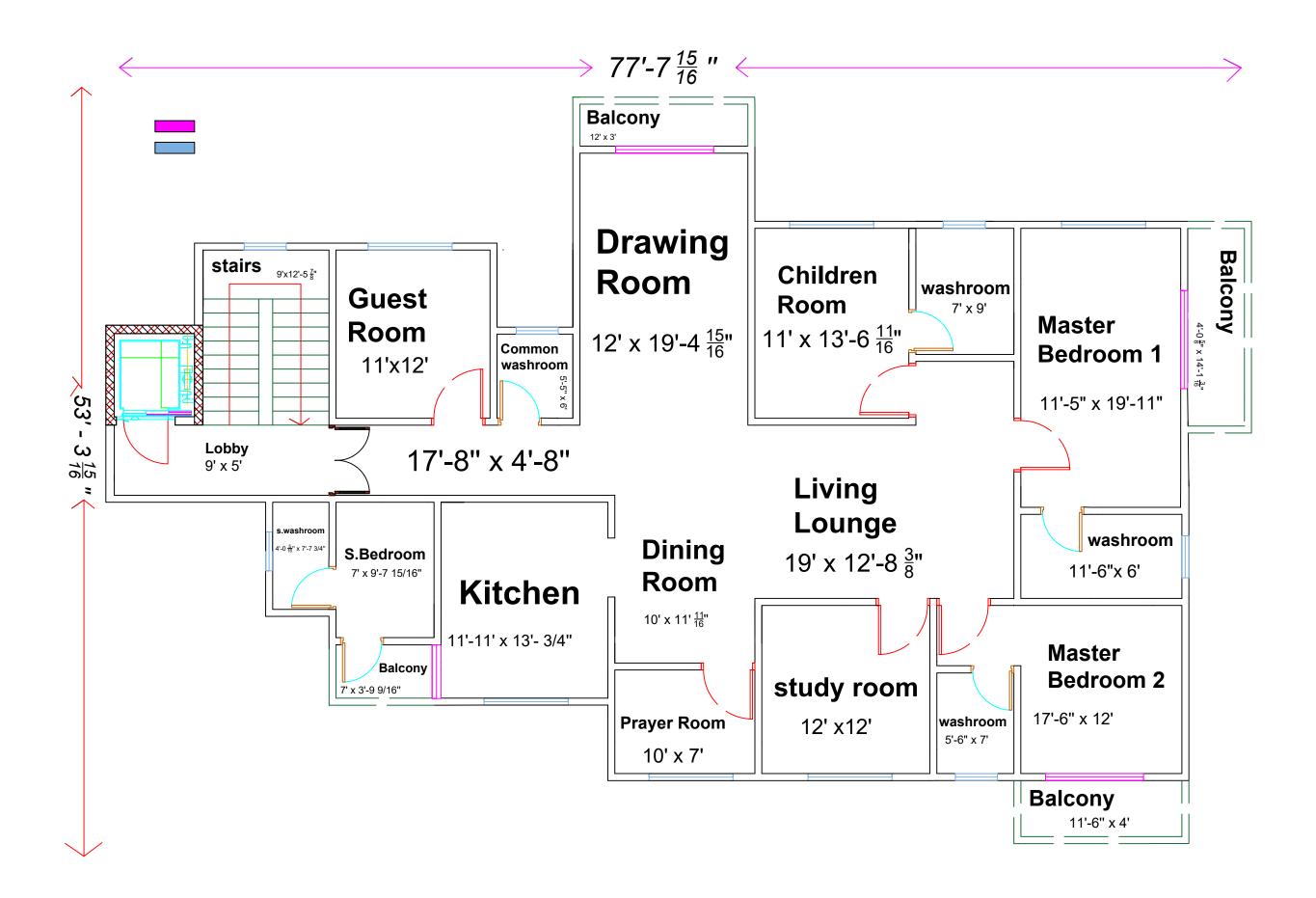


Project By:

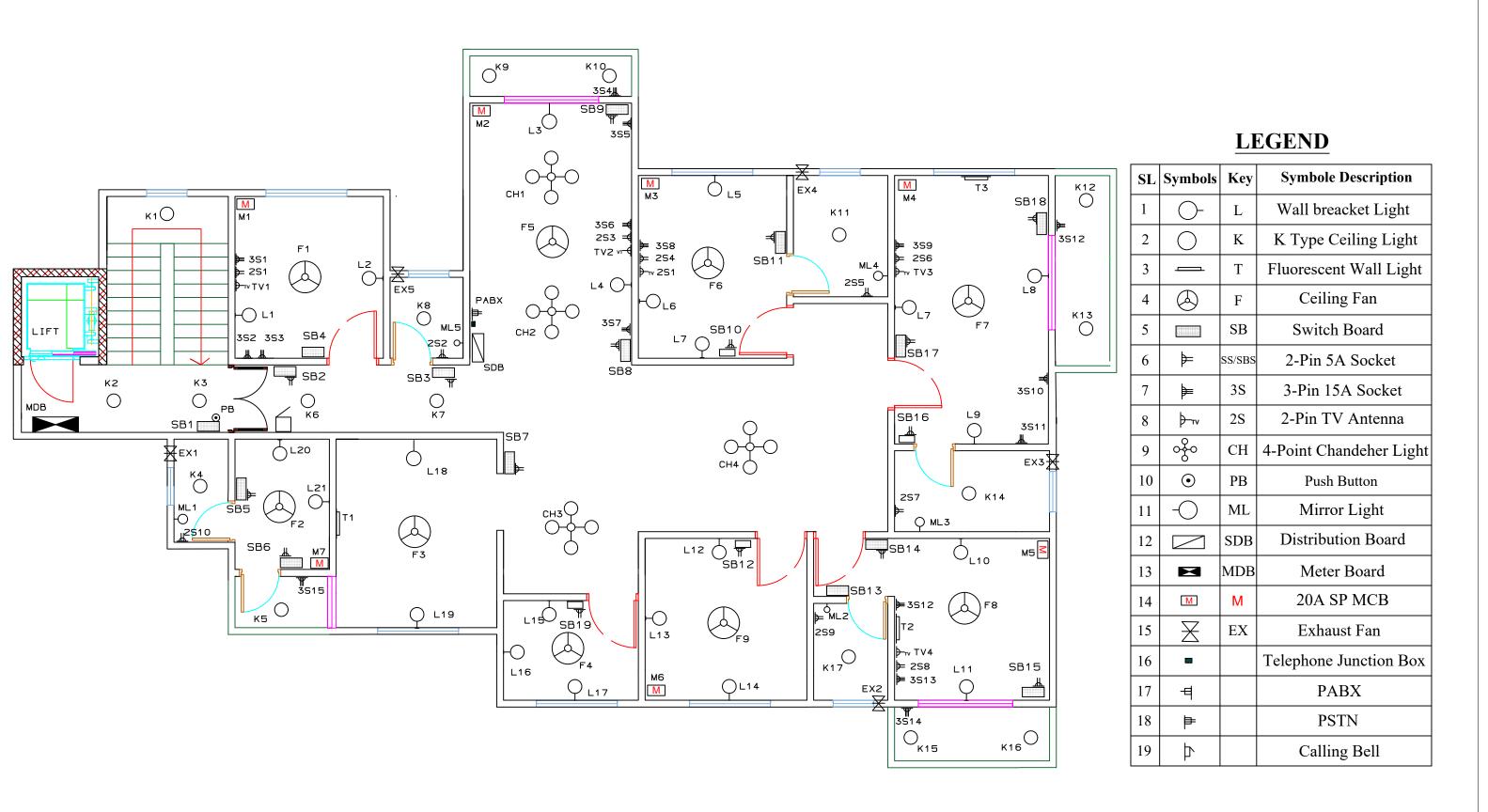
MD. Yeahyea Hassan Siddique ID: 021211017

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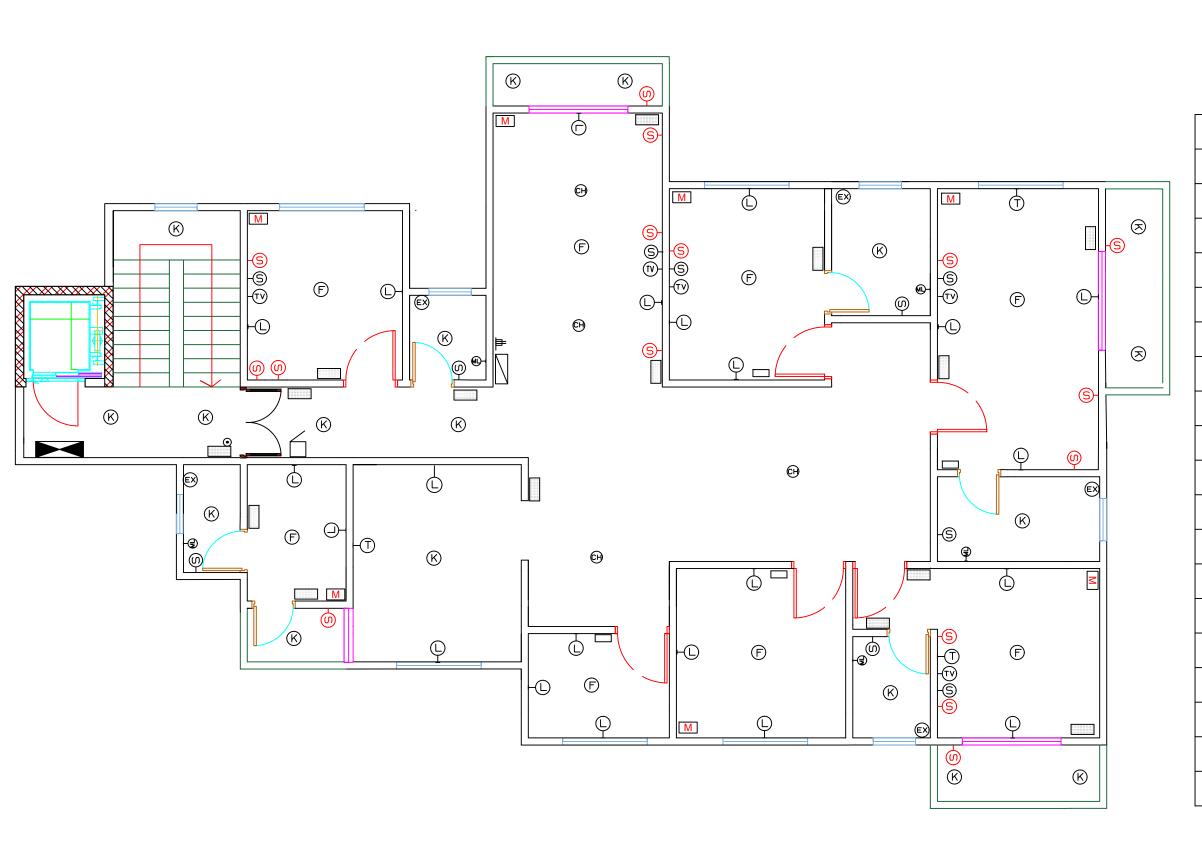
1.	Civil Layout	1
	Fitting & Fixture Layout	
	Conduit Layout	
	Conduit Layout (Light Load)	
	Conduit Layout (SB Grouping)	
	Single Line Diagram	
	Earthing System	
	Lightening Protection System	



FITTING & FIXTURES LAYOUT



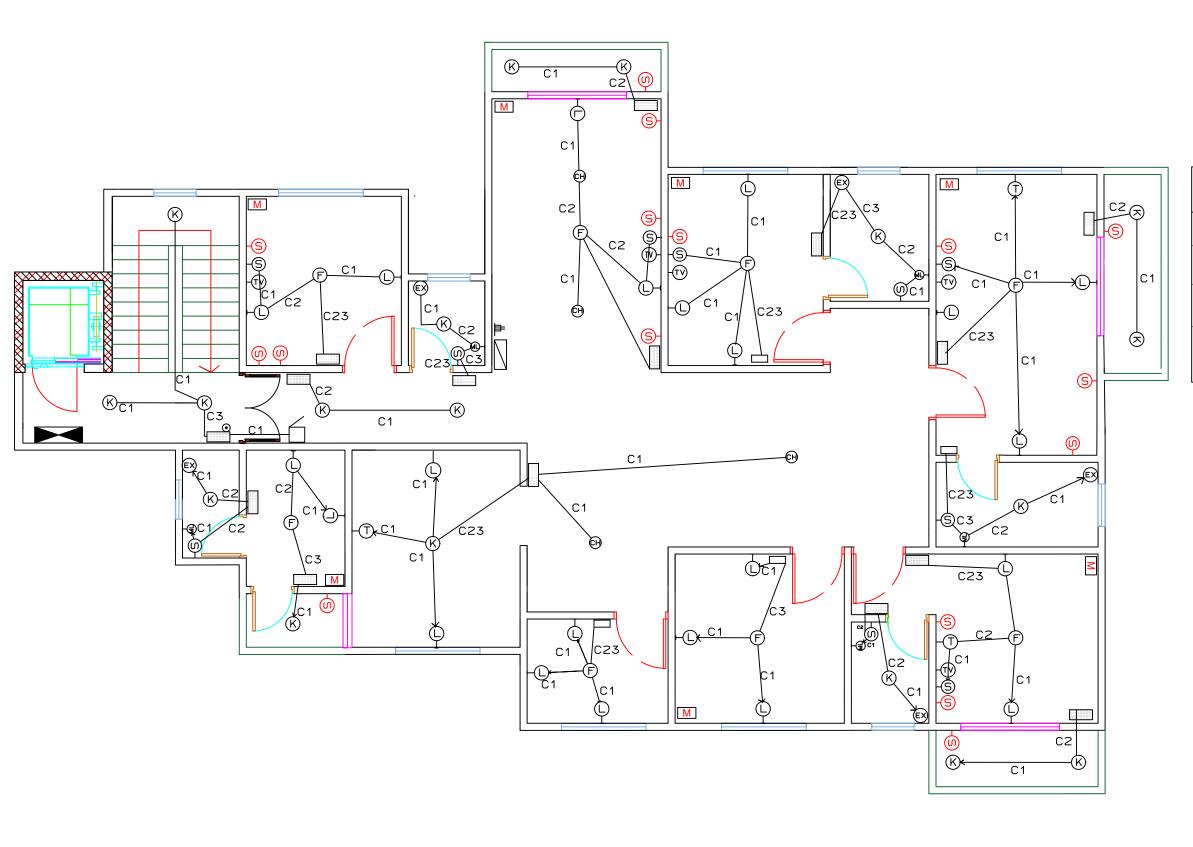
CONDUIT LAYOUT



LEGEND

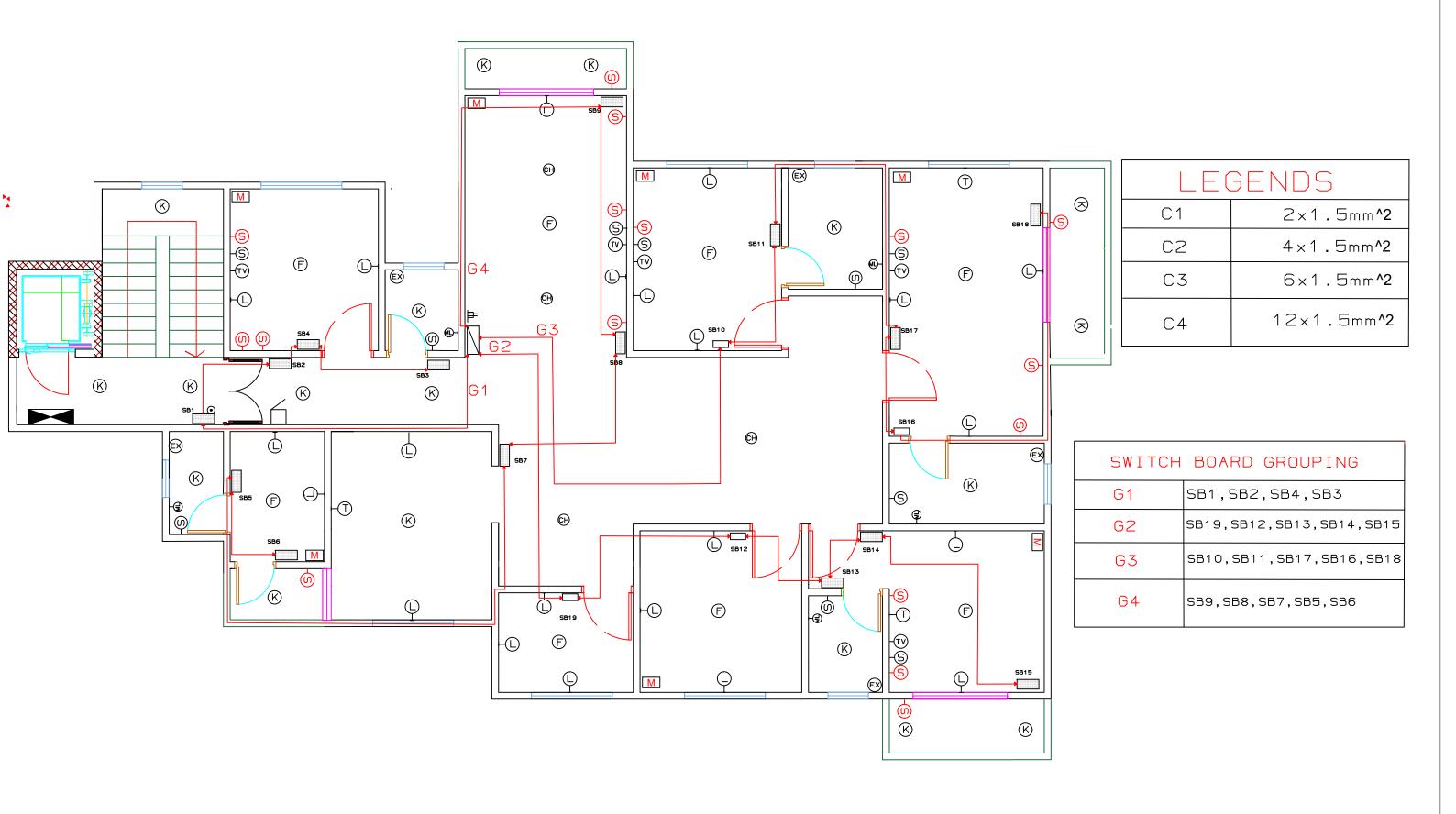
Symbols	Key	Symbole Description
J	L	Wall breacket Light
\otimes	K	K Type Ceiling Light
\ominus	T	Fluorescent Wall Light
Ē	F	Ceiling Fan
	SB	Switch Board
\blacksquare	SS/SBS	2-Pin 5A Socket
⊭	3S	3-Pin 15A Socket
р⊤v	2S	2-Pin TV Antenna
(H)	СН	4-Point Chandeher Light
•	PB	Push Button
Ė	ML	Mirror Light
	SDB	Distribution Board
	MDB	Meter Board
M	М	20A SP MCB
EX	EX	Exhaust Fan
		Telephone Junction Box
甲		PABX
#		PSTN
Ď		Calling Bell
		□ L K K T T F SB SS/SBS SS/SBS SS/SBS SS/SBS CH CH O PB CH O PB ML SDB MDB MDB MDB MDB M MC SDB MC SDB

CONDUIT LAYOUT OF LIGHT LOAD CONNECTION

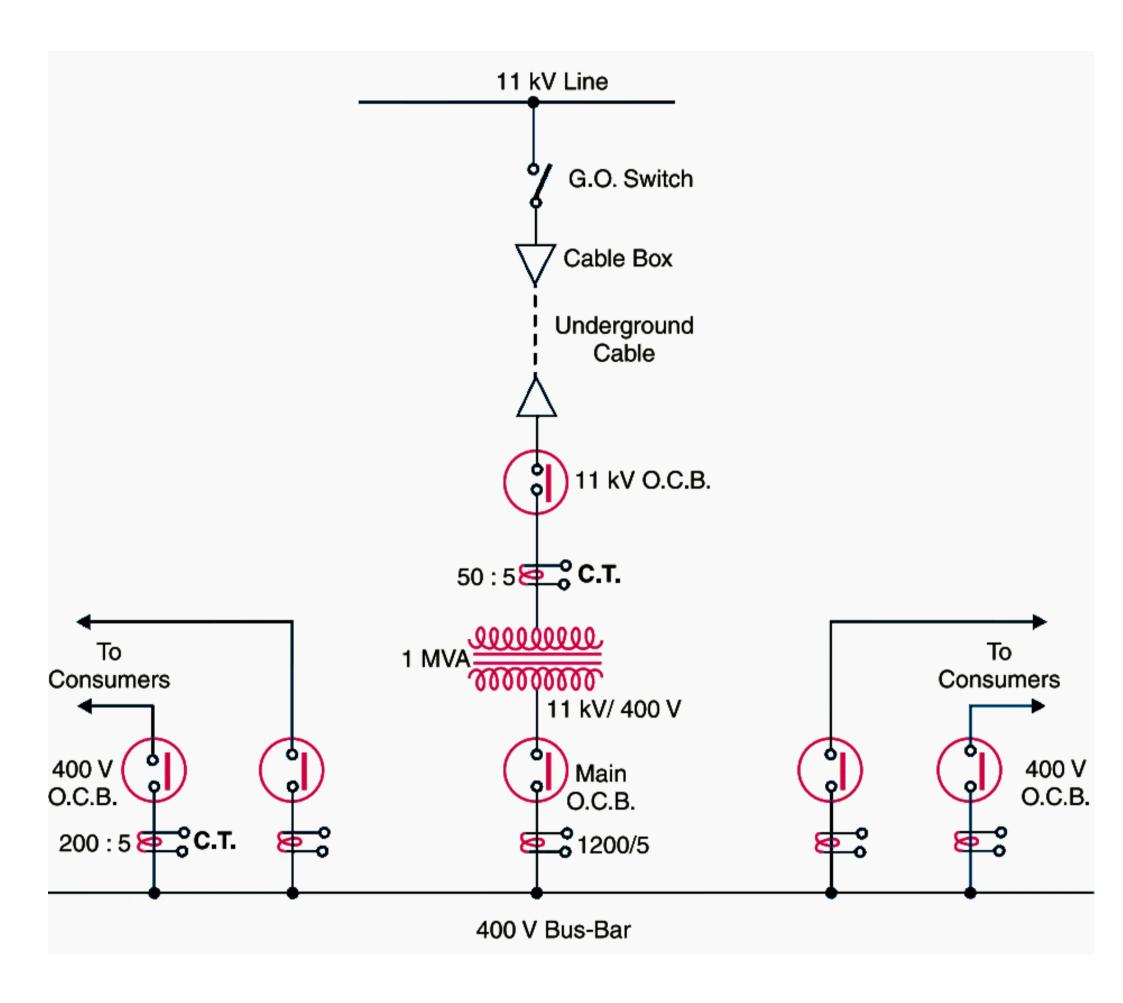


SYMBOLS	DESCRIPTION
C1	2×1.5mm ^2
C2	4×1.5mm ^2
С3	6×1.5mm ^2
C 4	12×1.5mm ^2

CONDUIT LAYOUT OF SWITCH BOARD GROUPING CONNECTION



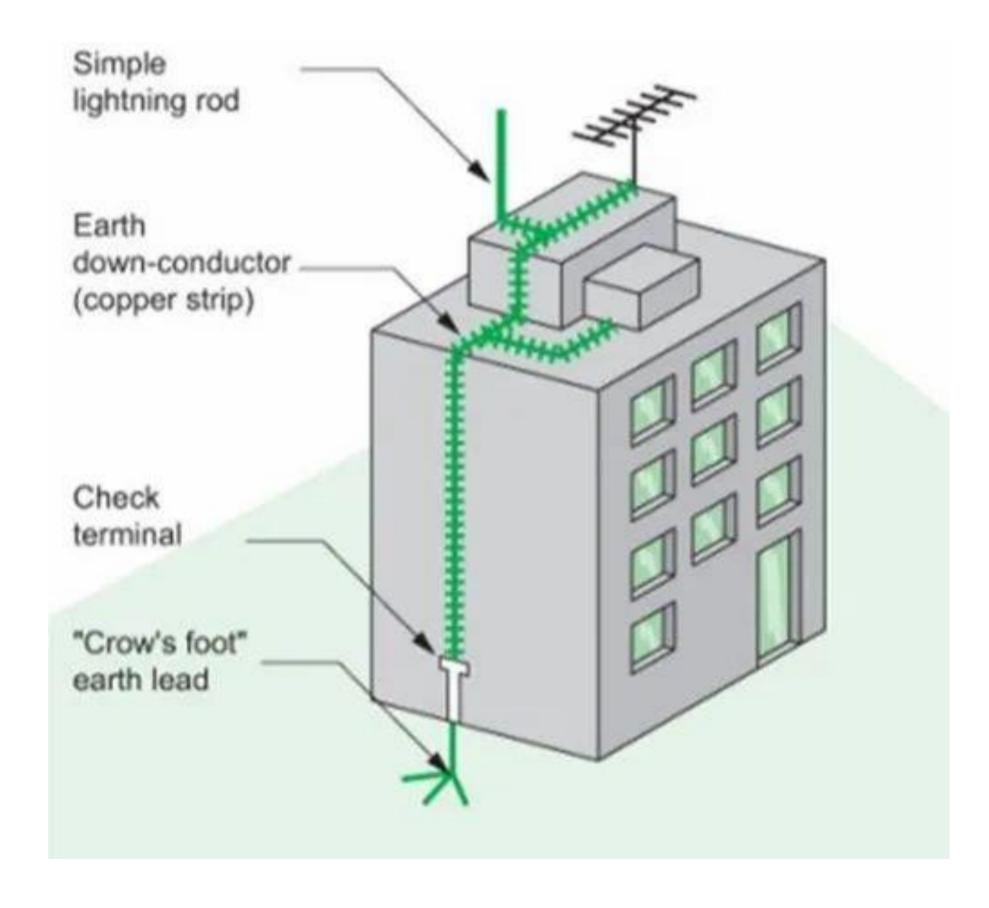
Single Line Diagram (SLD) of a Typical 11KV/400V Indoor Substation



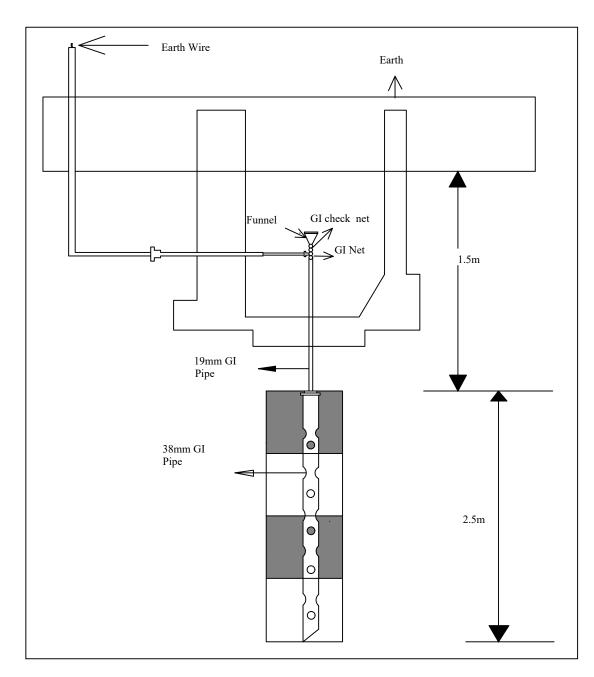
Simple Lightning Protection setup

A smallest complete lightning protection system shall consist of

- i. an Air Spike or Air Terminal,
- ii. a Down Conductor,
- iii. a Roof Conductor
- iv. iv. an Earth Electrode

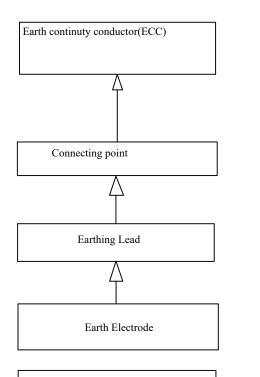


Earthing System of the building



I choosen pipe Earthing system for this design. for this type earthing

- ned GI pipe
- need parmanent wet soil
- -need coal and salt



Earth Electrode and earthing lead are same material

ECC size is 3 SWG & main Earthing lead is 3 SWG main Eartrhing lead through 3.5" GI pipe .BY using 3 point method . We find that the earth resistance is 1 ohm