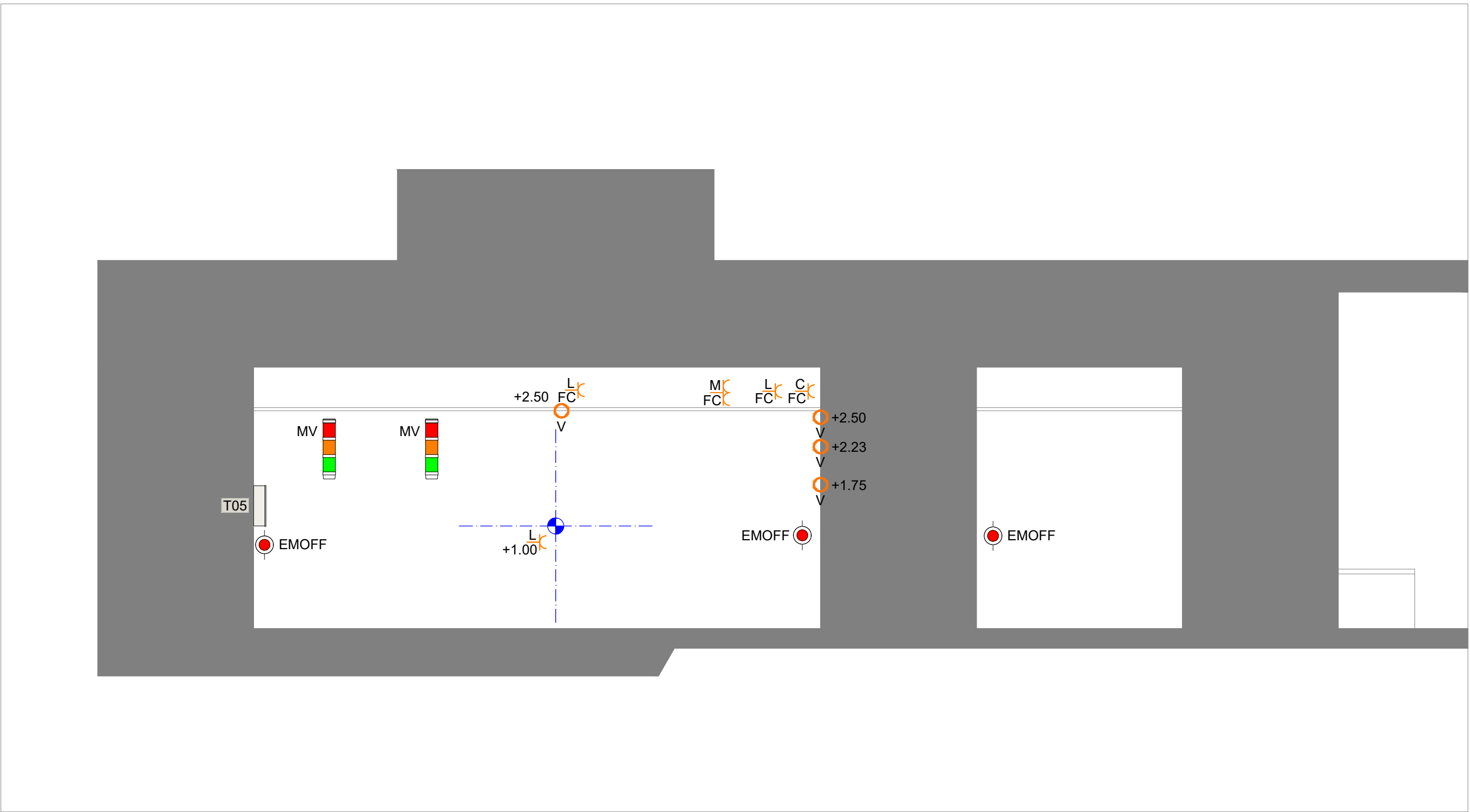


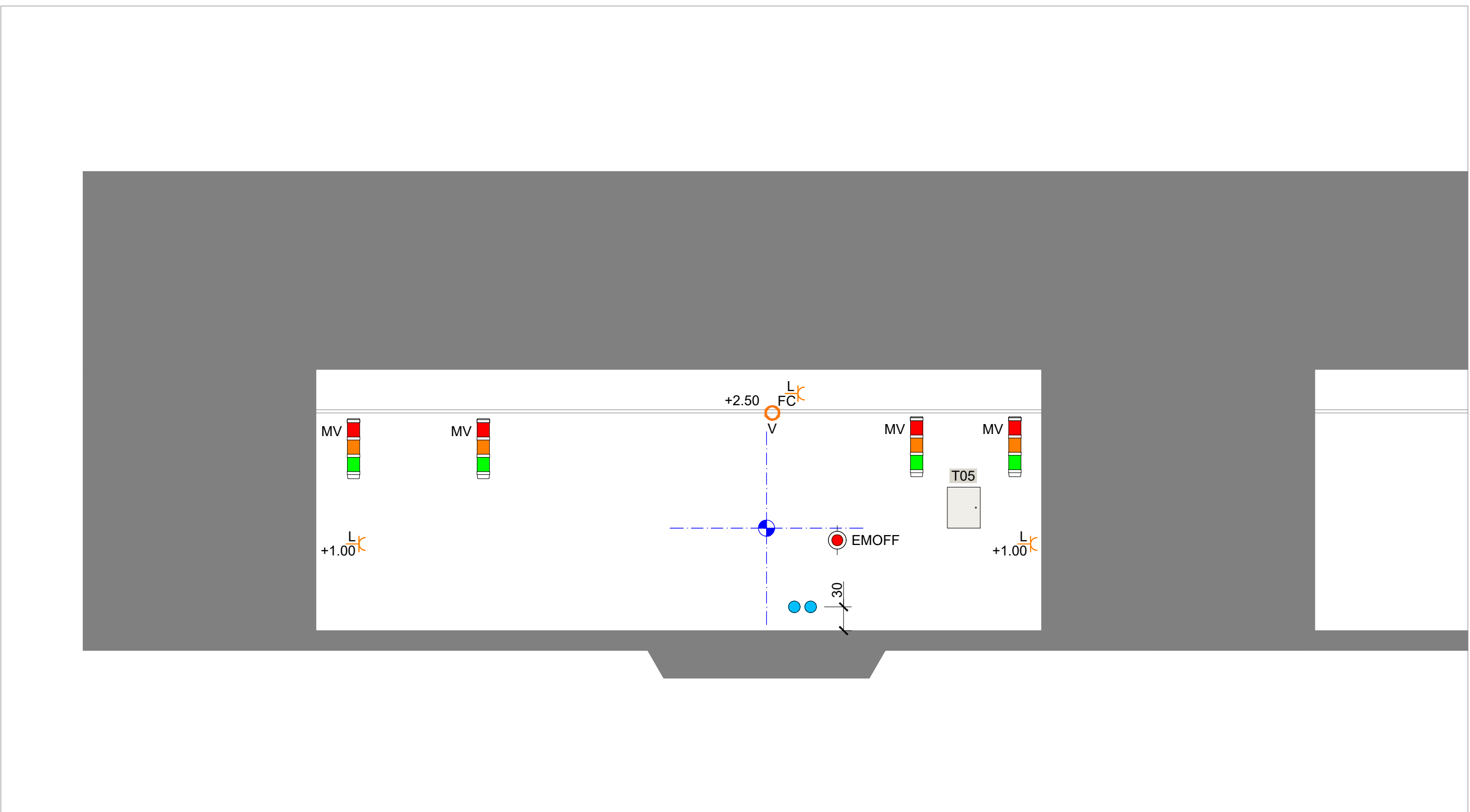
Plan View



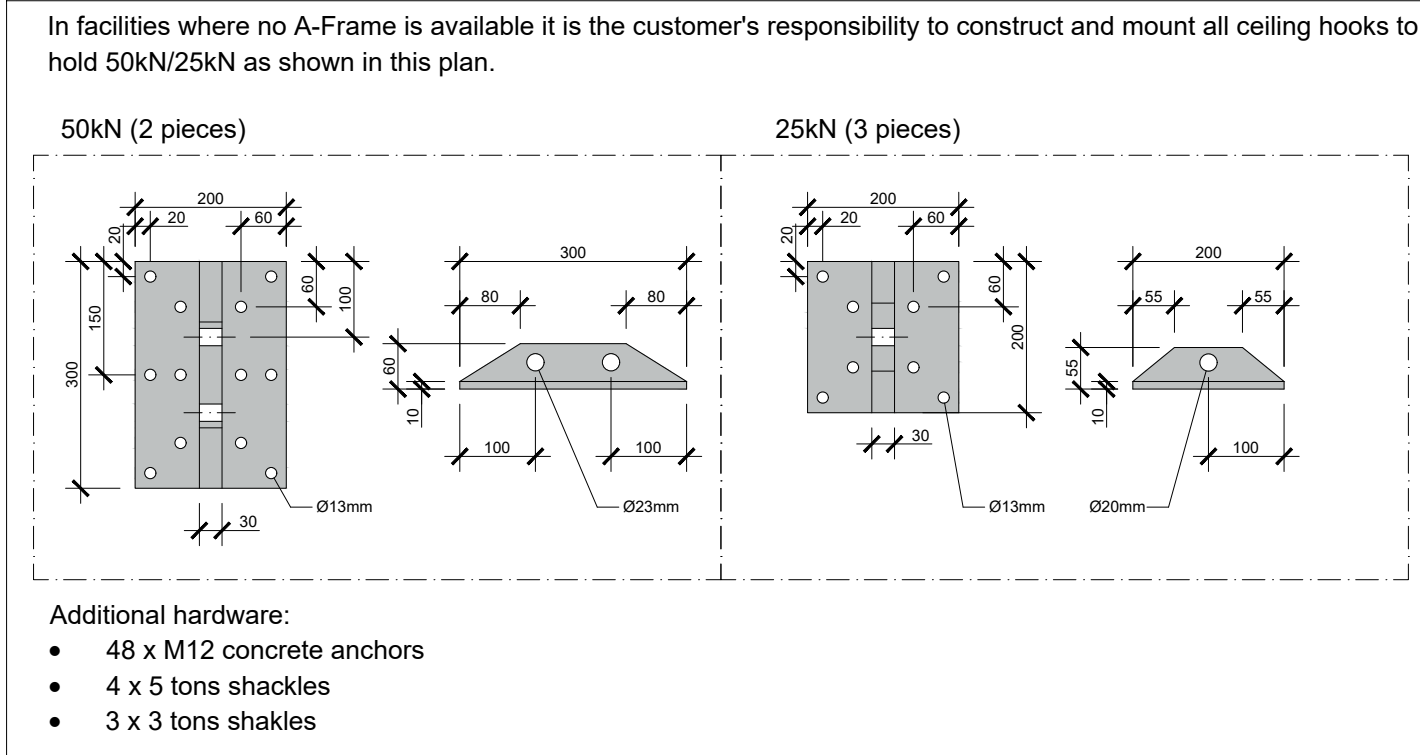
Section A-A



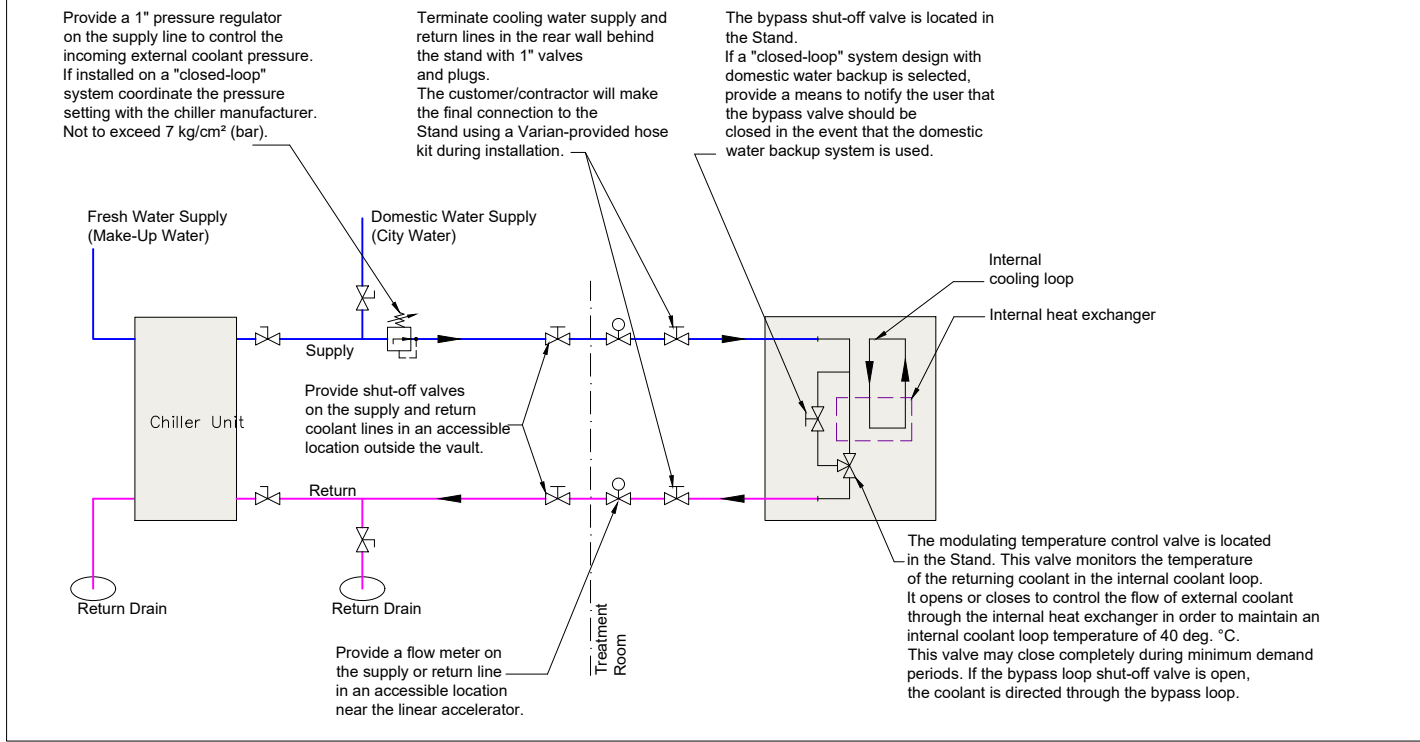
Section B-B



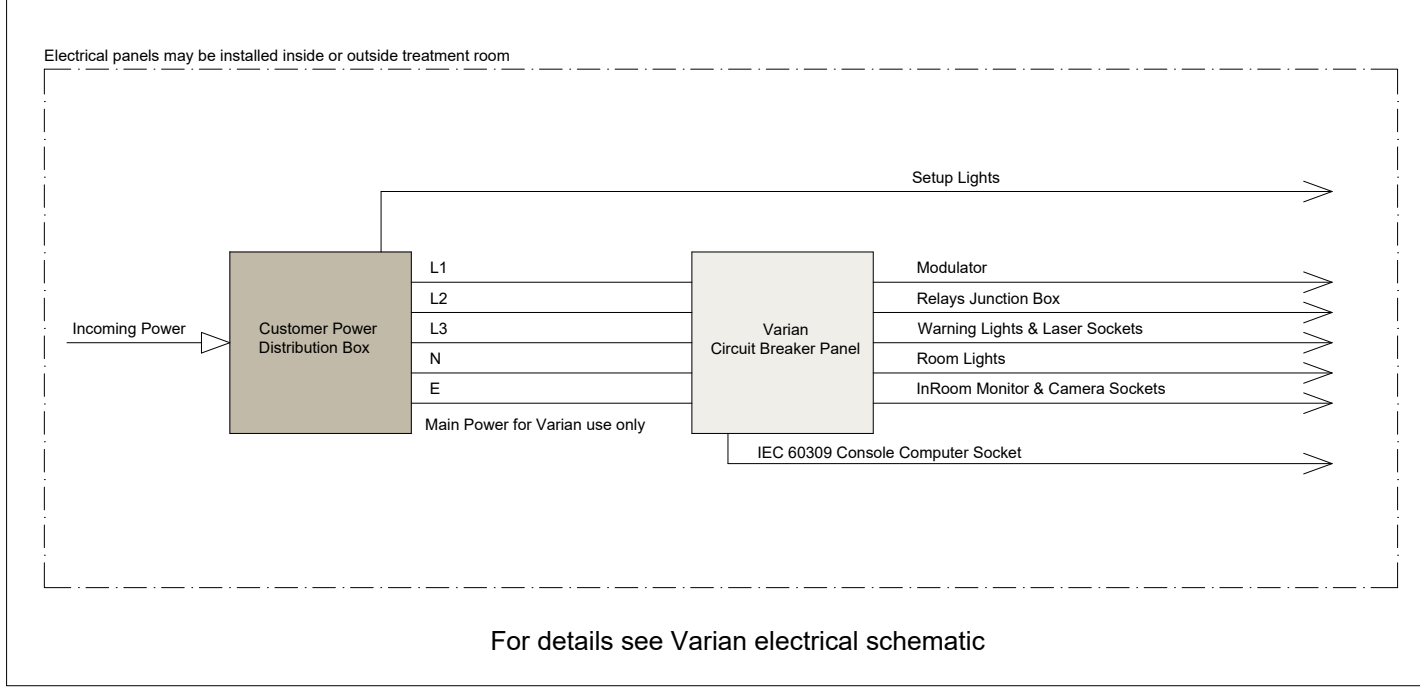
Ceiling hooks detail



Chilled Water Connection



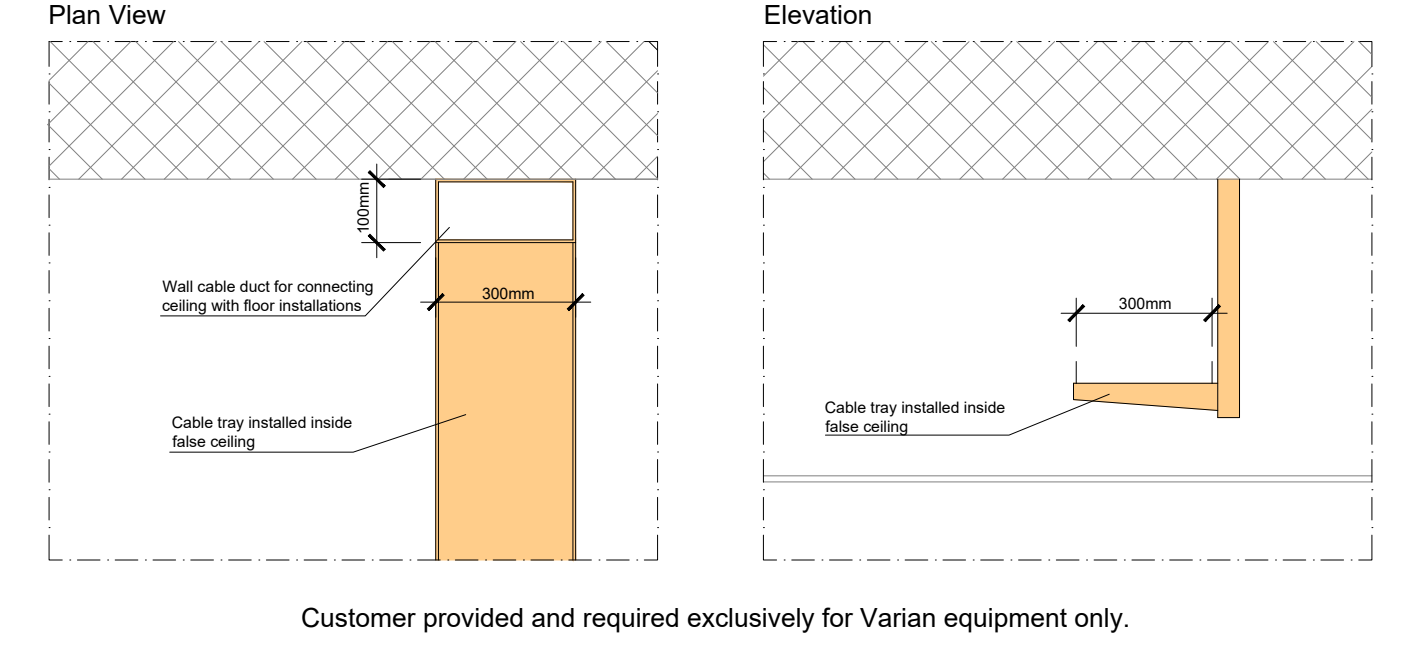
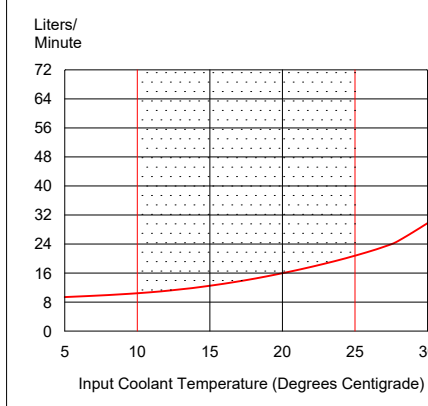
Power Distribution Scheme



Technical Requirements Varian TrueBeam

Electrical	
Input voltage	3 x 380, 400, 415, 480 VAC
Line voltage regulation (maximum steady-state)	± 5%
Voltage imbalance (maximum phase to phase)	3%
Input frequency	50/60 Hz
Fuse protection / Leakage current protection	100A / 300mA
Electrical load with console computer (during beam-on)	48 kVA
Power factor (cos φ)	0.9
Max. source impedance	89mΩ
Equipment impedance	3.56Ω with a cos φ 0.9 inductive
Supply cable diameter (length)	25mm ² Cu (0 - 20m) 35mm ² Cu (20 - 30m) 50mm ² Cu (30 - 40m)
Groundwire diameter	equal supply cable
Ventilation	
Room temperature	19° - 27° Celsius (recommended 23°)
Relative room humidity	15% - 80% (non-condensing)
Air changes	4 - 6 per hour
Pressure ratio	Lower pressure in treatment room
Air-handling system	Fresh air
Equipment air heat load (during beam-on)	
Gantry and stand	7.25 kW
Modulator cabinet	5.25 kW
Control console computer	0.75 kW
Coolant	
Maximum heat load	25 kW
Maximum overall input pressure, including normal back pressure	7 kg/cm ² (bar)
Pressure drop through linear accelerator heat exchanger	1.7 kg/cm ² (bar)
Glycol content of coolant	Not to exceed 50%

Incoming coolant temperature range vs. flow rate



Flooring Requirements

All electronic components for this equipment are sensitive to localized static electricity. Vinyl flooring in the treatment room or at the control console area should be considered as static dissipative as outlined in EOS/ESD S7.1 and ANSI/ESD S20.20.

Treatment room lighting

Varian recommends that two separate and independent electrical circuits be used for the treatment room lighting. One circuit can be connected so that the treatment room lights turn off when the lasers are turned on. The second circuit can be configured as desired. Both circuits can be dimmable.

Brackets & mounting plates

The ceiling brackets with mounting plates are furnished by Varian and shipped in advance of the linear accelerator. The ceiling brackets and mounting plates are customer installed. Maximum load to support Varian equipment is 30kg.

Varian provided, customer installed/connected	
T03	Modulator Cabinet
T05	Relay Junction Box
T21	STA Enclosure
T13	GEXPRO Main Circuit Breaker Panel
T15	Console IEC Power Receptacle

Electrical & Mechanical Legend	
For further details see electrical schematic	
Laser receptacle 230V	Warning lights MV
Camera receptacle 230V	Warning lights KV
InRoom monitor receptacle 230V	Door switch
Console receptacle 230V	Cable conduit M63 / Ø50mm into cable tray
Network receptacle RJ45 (Hospital Network)	Wall cable duct 300x100mm
Emergency off button	Room lighting
Last man out button	Equipment air heat load
Emergency disconnect button	Chilled water connection point to equipment (1")
Power switch	Spot height
Spot height: distance from finished floor in meters	Spot height: installed inside false ceiling
Customer power distribution box	