

The Castle Inn, Hickstead, RH17 5LZ

1725 3.019_Rev A

CLIENT	CHLOE BREEN
DRAWING	PROPOSED UNDERFLOOR HEATING DETAIL
DATE	JULY 2025
SCALE	1:10 @ A1

Suspended Floor Systems

Underfloor heating for suspended floors

For suspended timber and composite joists, typically found in new build and renovation projects - Polypipe offers a range of unique pre-insulated and pre-configured systems, as well as more traditional suspended floor under floor heating options. Giving you a solution for every type of suspended floor installation.

Double Heat Spreader Plates (DHSP)

Offering a simple installation system for traditional joists and spacings, double heat spreader plates can also be used in 'sprung' flooring systems such as sports halls. This system uses aluminium double heat spreader plates to transmit the heat evenly across the finished floor surface.

Fit From Above with Overlay™ Lite 15 - Suspended floor application

For enhanced performance, especially over larger floor areas, use with our new Overlay™ Lite 15 panels for an integrated insulated solution.

Suspended Floor Systems

Fit From Below (FFB) Double Heat Spreader Plate

Suitable for use with traditional or composite joists, this system offers the ability to fit from below, even if the floor above has already been installed. Perfect for cellars or where upper floor coverings are already in place.

Modular Heating Panels

For the ultimate quick and easy installation solution, use our pre-configured, insulated panels that include all the system components already integrated. The panels are supplied in sized panels which are simply fitted and connected together on site.

All systems

For use with our 15mm pipe systems. All suspended floor systems are fitted within the joists so do not add any build height to the floor.

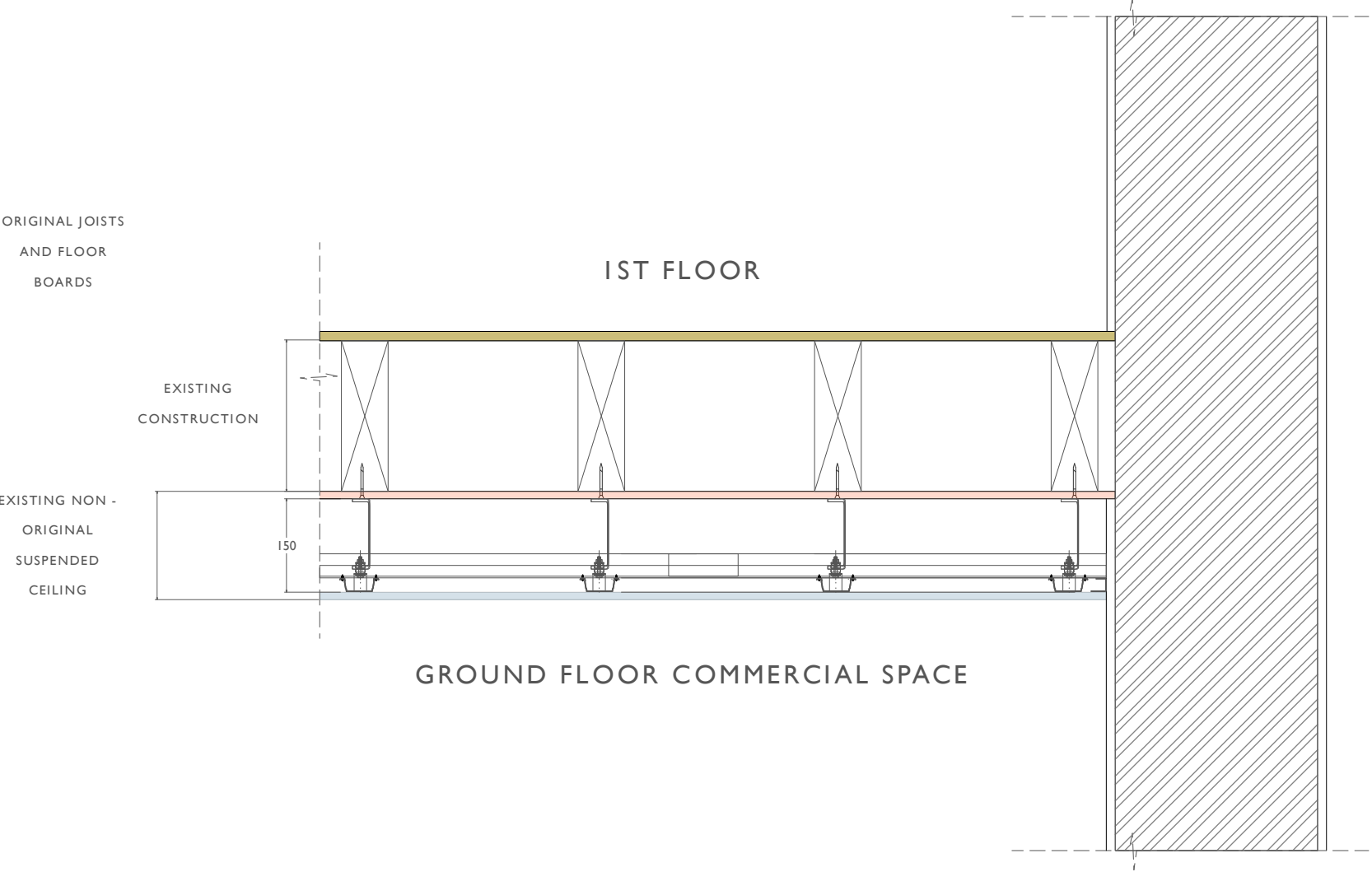
Design and Materials

	Double Heat Spreader Plate 50m² at 225mm pipe centres	Fit From Below (FFB) Double Heat Spreader Plate	Overlay™ Lite 15 - Suspended floor application	Modular Heating Panels (MHP)
Key design information				
Typical heat output at 60°C mean water temperature (50°C mean water temperature for MHP only)	Approx. 52W/m²	Approx. 52W/m²	Approx. 65W/m²	Approx. 76W/m²
Recommended design flow temperature	60°C	60°C	50°C	50°C
Maximum circuit length	80m (15mm pipe)	80m (15mm pipe)	80m (15mm pipe)	N/A
Maximum coverage per circuit	17m² at 225mm average pipe spacing (15mm pipe)	17m² at 225mm average pipe spacing (15mm pipe)	20m² at 200mm pipe spacing	20m² approx coverage required 70 W/m²: 80% of floor 50 W/m²: 60% of floor
Materials required				
Pipe	4.5m/m²	4.5m/m²	4.5m/m²	See product information table on page 69
Heat Spreader Plates	2 plates/m²	2 plates/m²	N/A	
Overlay™ Lite 15 Floor Panels	N/A	N/A	1 panel/m²	
End Returns	N/A	N/A	0.5/m²	
Aluminium Tape	N/A	N/A	1 roll per 10m²	
Conduit Pipe usage	2m/circuit	N/A	N/A	

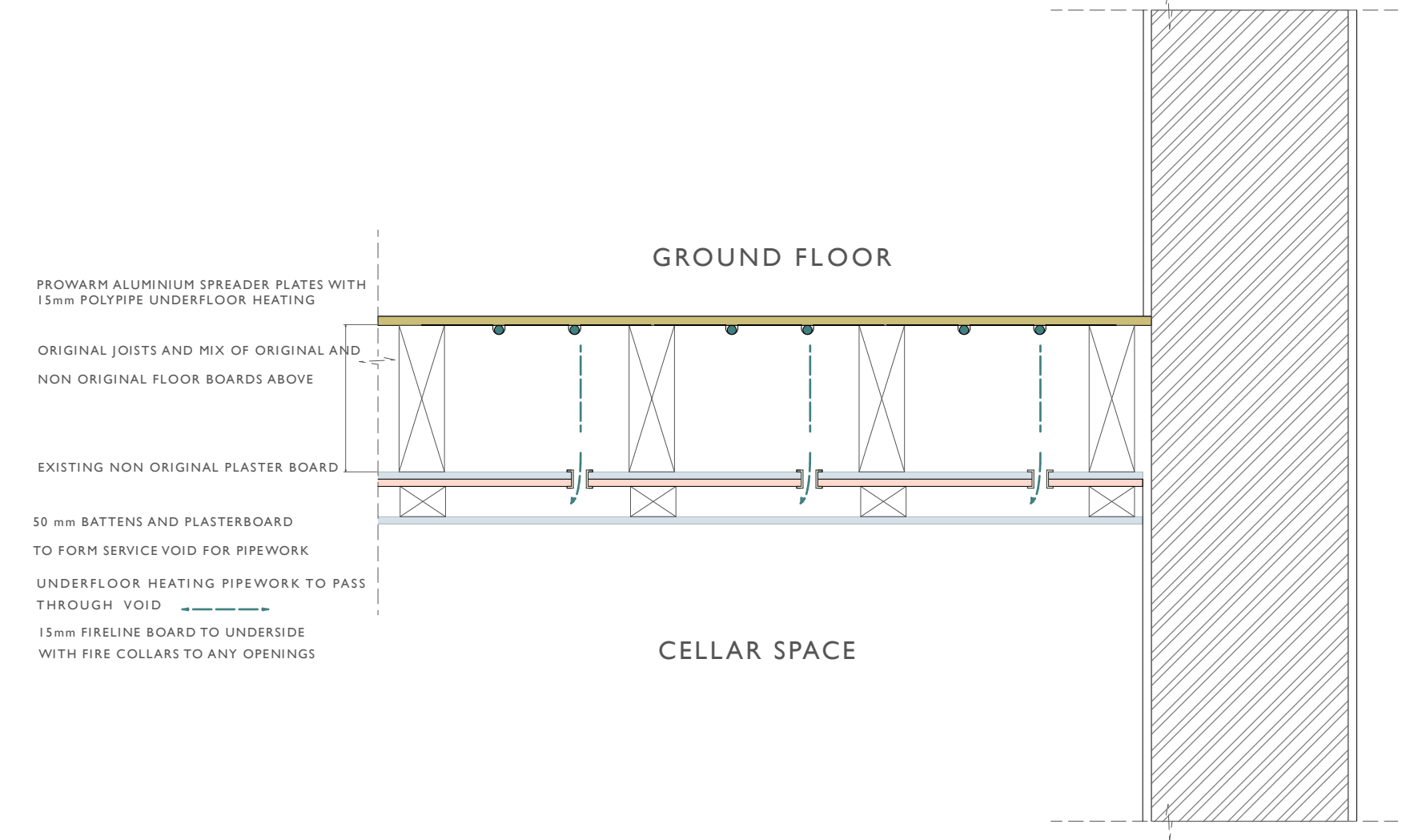
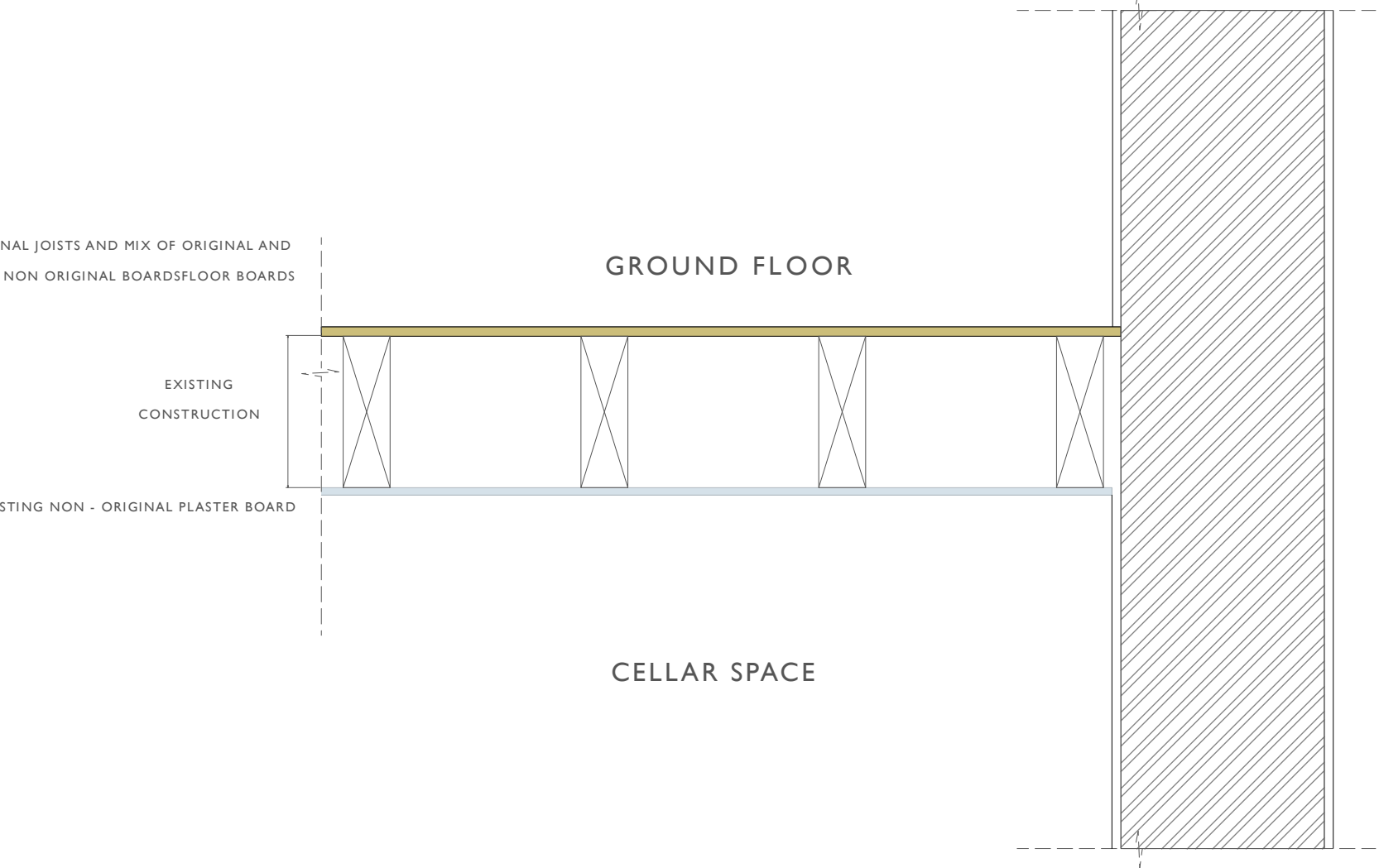
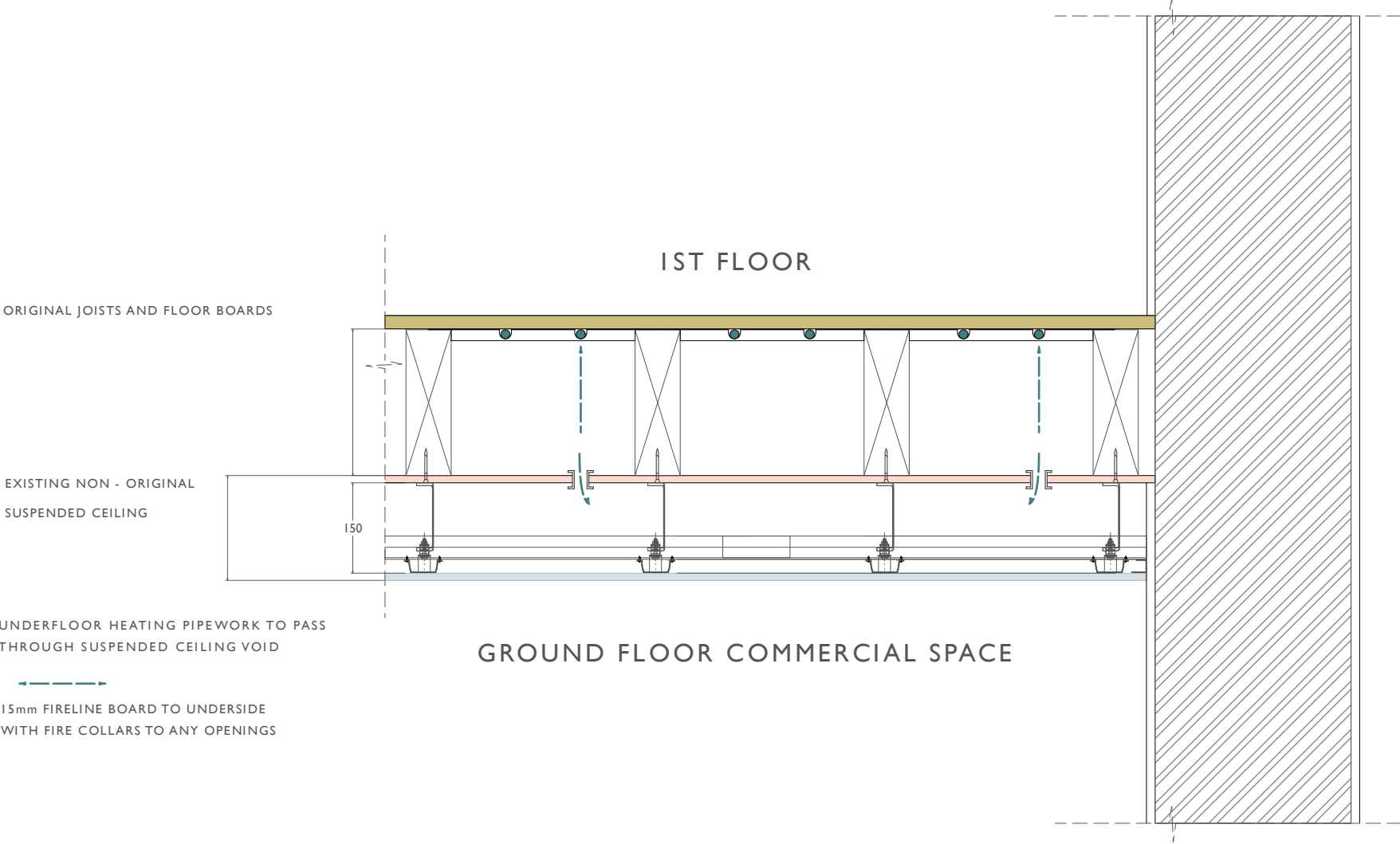


FIREPRO PLUS FIRE STOP COLLAR (120 minutes)
TO ALL PIPES AND CONDUITS THAT PENETRATE
1 HOUR COMPARTMENT FLOOR.

EXISTING CONDITION



PROPOSED UNDERFLOOR HEATING



AS PROPOSED UNDERFLOOR HEATING DETAILS

INOIST ALUMINIUM TRAY



PRINT DRAWING AT A1

N.B. Unless otherwise noted this drawing is not to be used for construction purposes. If indicated as feasibility this drawing is subject to a detailed site investigation, including ground conditions/ contaminants, drainage design and planning / density negotiations. The layout may be based upon an enlargement of an os sheet or other small scale plans and its accuracy needs to be verified by survey. CDM regulations have not been fully considered.

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