

NOTES - HEATING SERVICES

GENERAL NOTES

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- FOR A DETAILED OVERVIEW OF THE HEATING SYSTEM, PLEASE REFER TO THE SYSTEM DRAWING SCHEMATICS.
- ALL PIPEWORK SIZES NOTED REFER TO THE NOMINAL PIPE DIAMETER.
- ALL PIPEWORK SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH BS 5422: 2023.
- JOULE RECOMMENDS THAT ALL JOINTS THAT ARE TO BE SOLDERED SHOULD BE MADE USING A FLUX THAT IS SPARINGLY APPLIED AND ANY RESIDUE IS FLUSHED OUT OF THE SYSTEM BEFORE COMMISSIONING.

HEAT PUMP

- THE HEAT PUMP SHALL BE A MONO-BLOCK UNIT TYPE C/W INDOOR HOT WATER CYLINDER, HOT WATER PRIORITY, INTERNAL UNIT TO LOCATED WITHIN PLANTROOM, EXTERNAL UNIT EXACT LOCATION TO BE AGREED WITH ARCHITECT.
- THE HOT WATER CYLINDER SHALL BE PRE-PLUMBED VALVE SET AND COME WITH 1NO. 3KW IMMERSION HEATERS, EXPANSION VESSEL, PACKAGED CONTROLS ETC.

UNDERFLOOR HEATING SYSTEM

- **DO NOT CUT PIPES TO LENGTH PRIOR TO INSTALLATION:** THE LENGTHS OF PIPE LOOPS SHOWN ARE FOR GUIDANCE PURPOSES ONLY.
- **INSTALL MANIFOLDS AT THE CORRECT HEIGHT:** UNDERFLOOR PIPE MANIFOLDS SHOULD BE INSTALLED AT A HEIGHT AT LEAST 600mm FROM THE FINISHED FLOOR UNLESS OTHERWISE SPECIFIED.
- **FOLLOW MAXIMUM PIPE LENGTH RECOMMENDATIONS:** THE MAXIMUM RECOMMENDED PIPE LENGTH FOR 16mm PIPE IS 100m AND FOR 12mm PIPE IS 75m.
- **ADHERE TO PIPE CENTRE RECOMMENDATIONS:** RECOMMENDED 16mm PIPE CENTRES ARE 150mm WHEN USING A LOW TEMPERATURE HEAT SOURCE, SUCH AS A HEAT PUMP, OR 200mm WHEN USING A HIGH TEMPERATURE HEAT SOURCE.
- **MIXING SETS:** MIXING SETS ARE REQUIRED WITH HIGH TEMPERATURE HEAT SOURCES. WHEN USING A LOW TEMPERATURE HEAT SOURCE, MIXING SETS MAY NOT BE REQUIRED.
- **CIRCULATION PUMP:** IT IS RECOMMENDED TO FIT A CIRCULATION PUMP TO THE MANIFOLD IF A MIXING SET IS NOT INSTALLED TO GUARANTEE CIRCULATION THROUGH THE UNDERFLOOR LOOPS.
- **INSTALL A BYPASS VALVE:** A BYPASS VALVE MUST BE INSTALLED ON THE PRIMARY PIPEWORK TO THE UNDERFLOOR HEATING MANIFOLD.
- **FOLLOW THE LAYOUT SCHEMATIC:** ADHERE TO THE LAYOUT SCHEMATIC PROVIDED FOR PIPE LAYOUT.
- **INSTALL PIPE FLOW AROUND THE ROOM PERIMETER FIRST:** THE PIPE FLOW SHOULD BE INSTALLED AROUND THE PERIMETER OF THE ROOM FIRST TO PREVENT ANY POTENTIAL COLD SPOTS IN THE FLOOR IN THESE AREAS.
- **PRESSURE TESTING:** PRESSURE TESTING MUST BE CARRIED OUT PRIOR TO THE LAYING OF SCREED. AIR (NOT WATER) MUST BE USED FOR PERIODS OF PROLONGED PRESSURE TESTING.
- **FLOOR COVERING:** FLOOR COVERINGS SHOULD BE SUITABLE FOR USE WITH UNDERFLOOR HEATING. IF CARPETS ARE FITTED, THE UNDERLAY MUST HAVE A TOG NO GREATER THAN 1 WITH THE CARPET HAVING A TOG NO GREATER THAN 1.5, OR HAVE A MAXIMUM THERMAL RESISTANCE OF 0.15m²/K/W.
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RADIATOR INSTALLATION

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- ALL FINAL CONNECTIONS TO RADIATORS TO BE Ø15mm F&R.

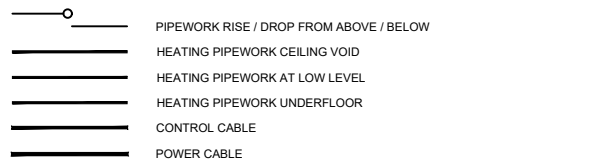
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- 12V: WHEN USING 12V TEMPERATURE ROOM STATS, USE A CAT 5 / CAT 6 SHIELDED CABLE BETWEEN EACH ROOM STAT AND ITS RELEVANT UNDERFLOOR CONTROLLER.
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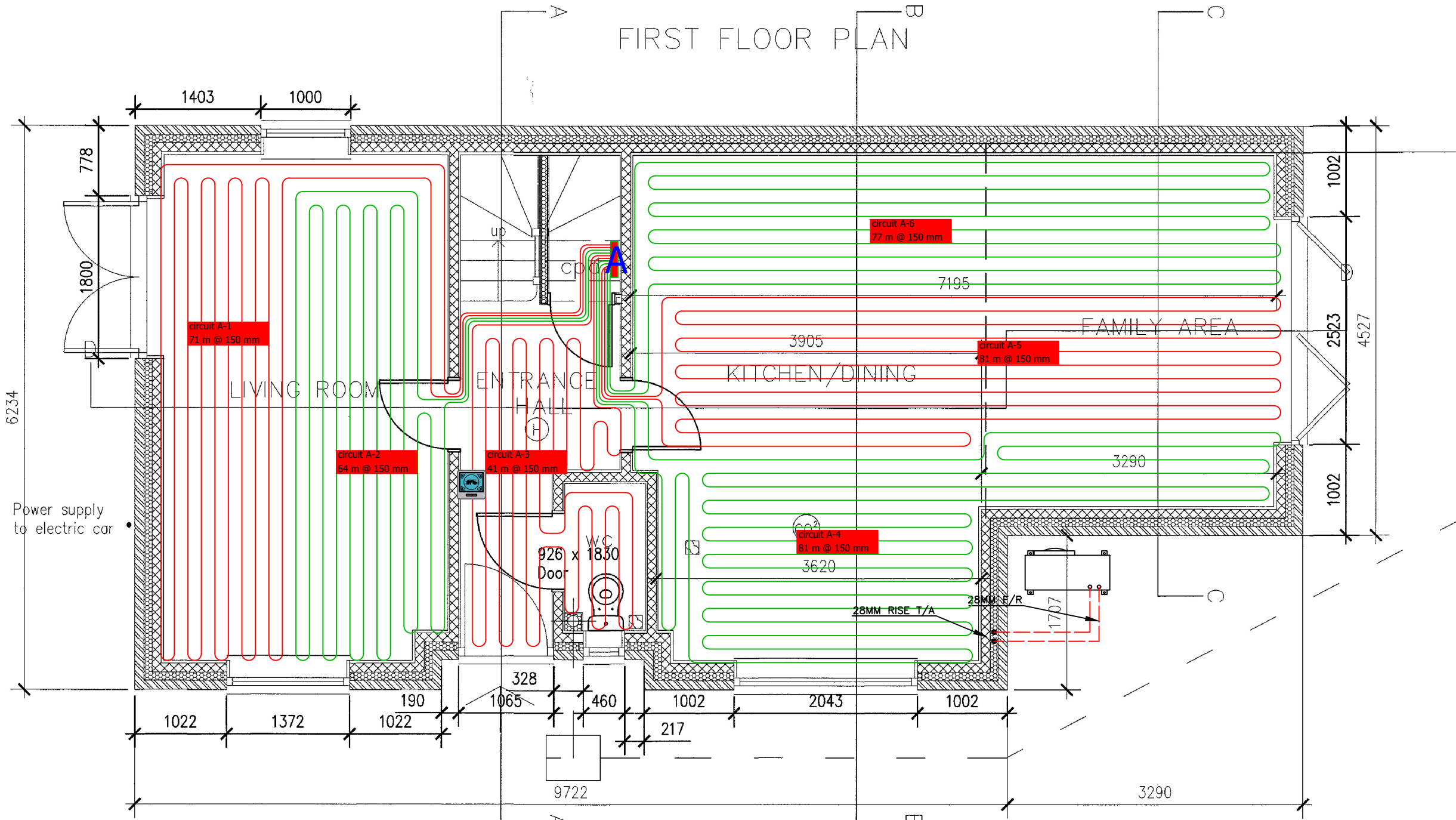
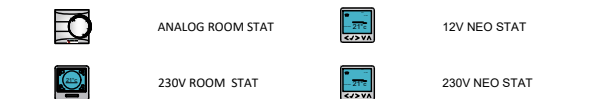
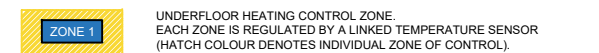
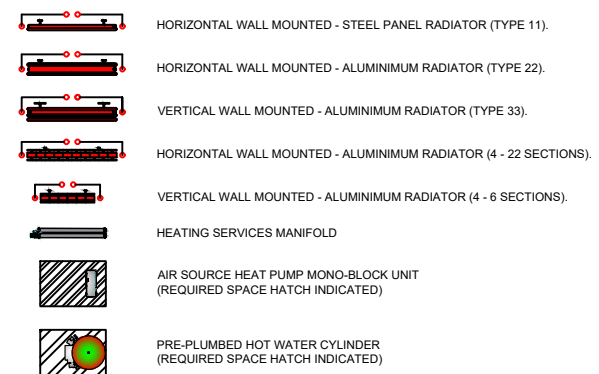
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- **SAFETY RESPONSIBILITY: INSTALLERS SHOULD ADHERE TO THEIR OWN CDM GUIDELINES WHEN HANDLING AND INSTALLING POTENTIALLY HEAVY EQUIPMENT.**
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HEATING PIPEWORK REFERENCE KEY

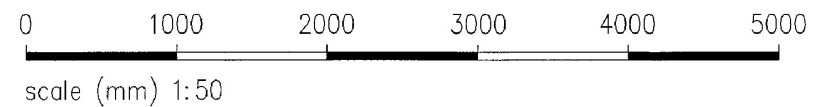
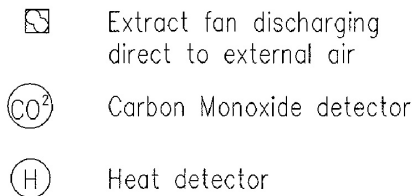


HEATING SERVICES REFERENCE KEY



GROUND FLOOR PLAN

(Gross internal floor area = 133.80m²)



DRAWING TYPE CENTRAL HEATING	PROJECT Rear of 6 Petlands Road, Haywards Heath	DWG NO:	310631806177	 
DRAWING TITLE GROUND FLOOR	CLIENT	ISSUE DATE:	25/06/2026	
DWELLING TYPE HOUSE	ON BEHALF OF JOULE HEATING SOLUTIONS	SCALE:	1:50 @ A3	
		REVISION:	01	

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HEATING PIPEWORK REFERENCE KEY

- PIPEWORK RISE / DROP FROM ABOVE / BELOW
- HEATING PIPEWORK CEILING VOID
- HEATING PIPEWORK AT LOW LEVEL
- HEATING PIPEWORK UNDERFLOOR
- CONTROL CABLE
- POWER CABLE

HEATING SERVICES REFERENCE KEY

- HORIZONTAL WALL MOUNTED - STEEL PANEL RADIATOR (TYPE 11).
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- AIR SOURCE HEAT PUMP MONO-BLOCK UNIT (REQUIRED SPACE HATCH INDICATED)
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ANALOG ROOM STAT



12V NEO STAT



230V ROOM STAT



230V NEO STAT

FA

FROM ABOVE

TA

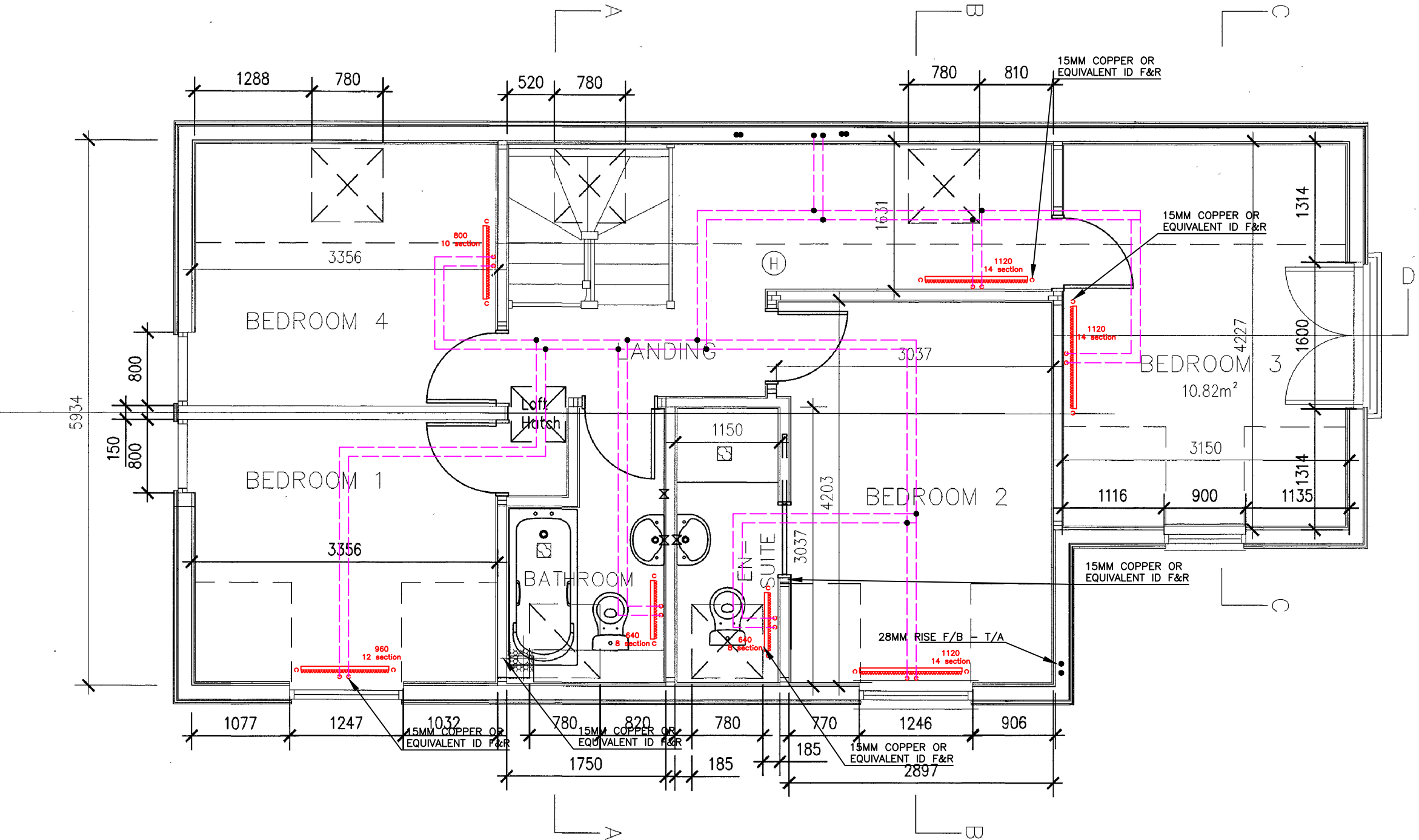
TO ABOVE

FB

FROM BELOW

TB

TO BELOW



DRAWING TYPE	PROJECT	DWG NO:	310631806177	 
CENTRAL HEATING	Rear of 6 Petlands Road, Haywards Heath	ISSUE DATE:	25/06/2026	
DRAWING TITLE	CLIENT	SCALE:	1:50 @ A3	
FIRST FLOOR	ON BEHALF OF	REVISION:	01	
DWELLING TYPE	JOULE HEATING SOLUTIONS			
HOUSE				

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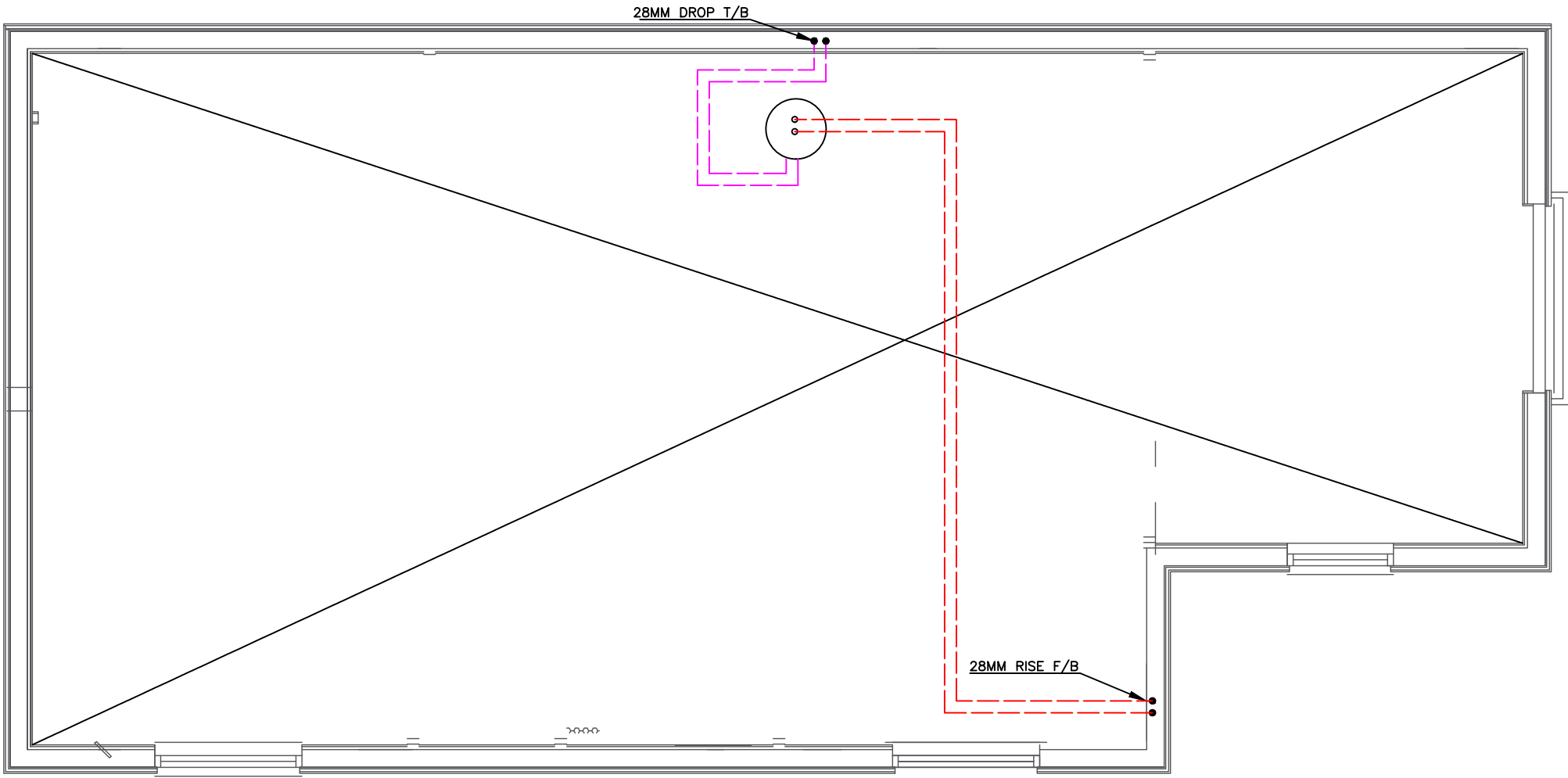
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- | | | | |
|--|------------------|---|---------------|
|  | ANALOG ROOM STAT |  | 12V NEO STAT |
|  | 230V ROOM STAT |  | 230V NEO STAT |
| FA | FROM ABOVE | TA | TO ABOVE |
| FB | FROM BELOW | TB | TO BELOW |



DRAWING TYPE	PROJECT	DWG NO:	310631806177	
CENTRAL HEATING	Rear of 6 Petlands Road, Haywards Heath	ISSUE DATE:	25/06/2026	
DRAWING TITLE	CLIENT	SCALE:	1:50 @ A3	
LOFT	ON BEHALF OF	REVISION:	01	
DWELLING TYPE	HOUSE			
JOULE HEATING SOLUTIONS				

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RADIATOR INSTALLATION

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- 12V: WHEN USING 12V TEMPERATURE ROOM STATS, USE A CAT 5 / CAT 6 SHIELDED CABLE BETWEEN EACH ROOM STAT AND ITS RELEVANT UNDERFLOOR CONTROLLER.
- 230V: WHEN USING 230V TEMPERATURE ROOM STATS, THE CABLE SHOULD BE 3 CORE 1.5mm CABLE BETWEEN EACH ROOM AND ITS RELEVANT UNDERFLOOR CONTROLLER.

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- REGULATORY RESPONSIBILITY:** INSTALLERS MUST ENSURE ALL SPACE HEATING AND DOMESTIC HOT WATER INSTALLATIONS COMPLY WITH LOCAL BUILDING REGULATIONS AND STANDARDS.

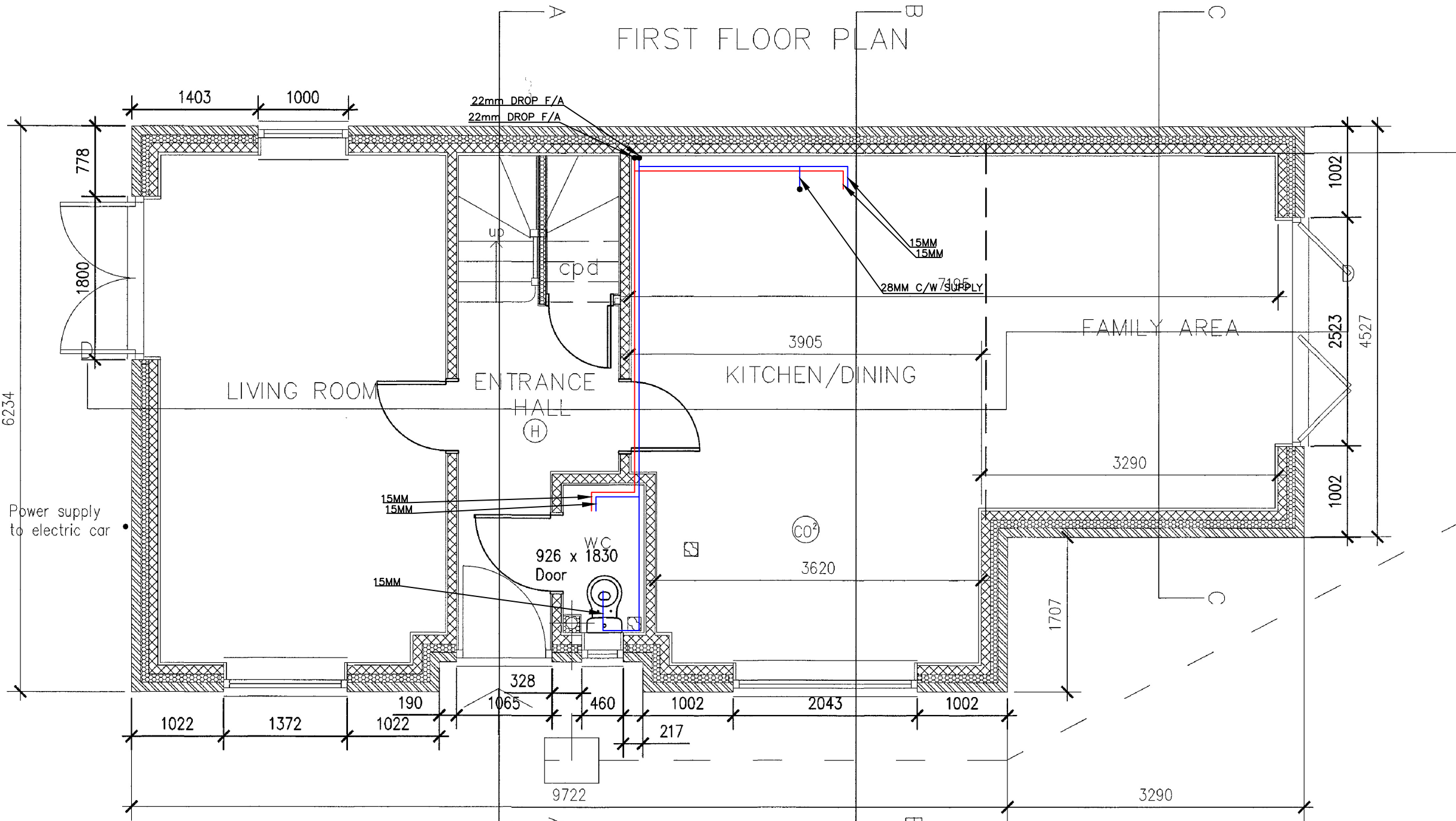
HEATING PIPEWORK REFERENCE KEY

- Zone 1 Heating System Pipework
- Zone 2 Heating System Pipework
- Domestic Hot Water Supply
- Domestic Cold Water Supply
- Pipework at Low Level
- Pipework in Floor Voids
- Pipework in Roof / Ceiling Void

HEATING SERVICES REFERENCE KEY

- HORIZONTAL WALL MOUNTED - STEEL PANEL RADIATOR (TYPE 11).
- HORIZONTAL WALL MOUNTED - ALUMINIUM RADIATOR (TYPE 22).
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- UNDERFLOOR HEATING CONTROL ZONE. EACH ZONE IS REGULATED BY A LINKED TEMPERATURE SENSOR (HATCH COLOUR DENOTES INDIVIDUAL ZONE OF CONTROL).

- | | | | |
|----|------------------|----|---------------|
| | ANALOG ROOM STAT | | 12V NEO STAT |
| | 230V ROOM STAT | | 230V NEO STAT |
| FA | FROM ABOVE | TA | TO ABOVE |
| FB | FROM BELOW | TB | TO BELOW |



- Extract fan discharging direct to external air
- Carbon Monoxide detector
- Heat detector

0 1000 2000 3000 4000 5000
scale (mm) 1:50

DRAWING TYPE HOT & COLD WATER SERVICES	PROJECT Rear of 6 Petlands Road, Haywards Heath	DWG NO: 310631806177
DRAWING TITLE GROUND FLOOR	CLIENT	ISSUE DATE: 25/06/2026
DWELLING TYPE HOUSE	ON BEHALF OF JOULE HEATING SOLUTIONS	SCALE: 1:50 @ A3
		REVISION: 01

NOTES - HEATING SERVICES

GENERAL NOTES

- THE COMPLETE MECHANICAL AND ELECTRICAL INSTALLATION SHALL BE INSTALLED AND COMMISSIONED IN ACCORDANCE WITH JOULE MECHANICAL AND ELECTRICAL INSTALLATION GUIDELINES PROVIDED WITH THE HEATING SYSTEM.
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 - ALL PIPEWORK SIZES NOTED REFER TO THE NOMINAL PIPE DIAMETER.
 - ALL PIPEWORK SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH BS 5422: 2023.
 - JOULE RECOMMENDS THAT ALL JOINTS THAT ARE TO BE SOLDERED SHOULD BE MADE USING A FLUX THAT IS SPARINGLY APPLIED AND ANY RESIDUE IS FLUSHED OUT OF THE SYSTEM BEFORE COMMISSIONING.

HEAT PUMP

- THE HEAT PUMP SHALL BE A MONO-BLOCK UNIT TYPE C/W INDOOR HOT WATER CYLINDER, HOT WATER PRIORITY, INTERNAL UNIT TO LOCATED WITHIN PLANTROOM, EXTERNAL UNIT EXACT LOCATION TO BE AGREED WITH ARCHITECT.
- THE HOT WATER CYLINDER SHALL BE PRE-PLUMBED VALVE SET AND COME WITH 1NO. 3KW IMMERSION HEATERS, EXPANSION VESSEL, PACKAGED CONTROLS ETC.

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- ADHERE TO PIPE CENTRE RECOMMENDATIONS:** RECOMMENDED 16mm PIPE CENTRES ARE 150mm WHEN USING A LOW TEMPERATURE HEAT SOURCE, SUCH AS A HEAT PUMP, OR 200mm WHEN USING A HIGH TEMPERATURE HEAT SOURCE.
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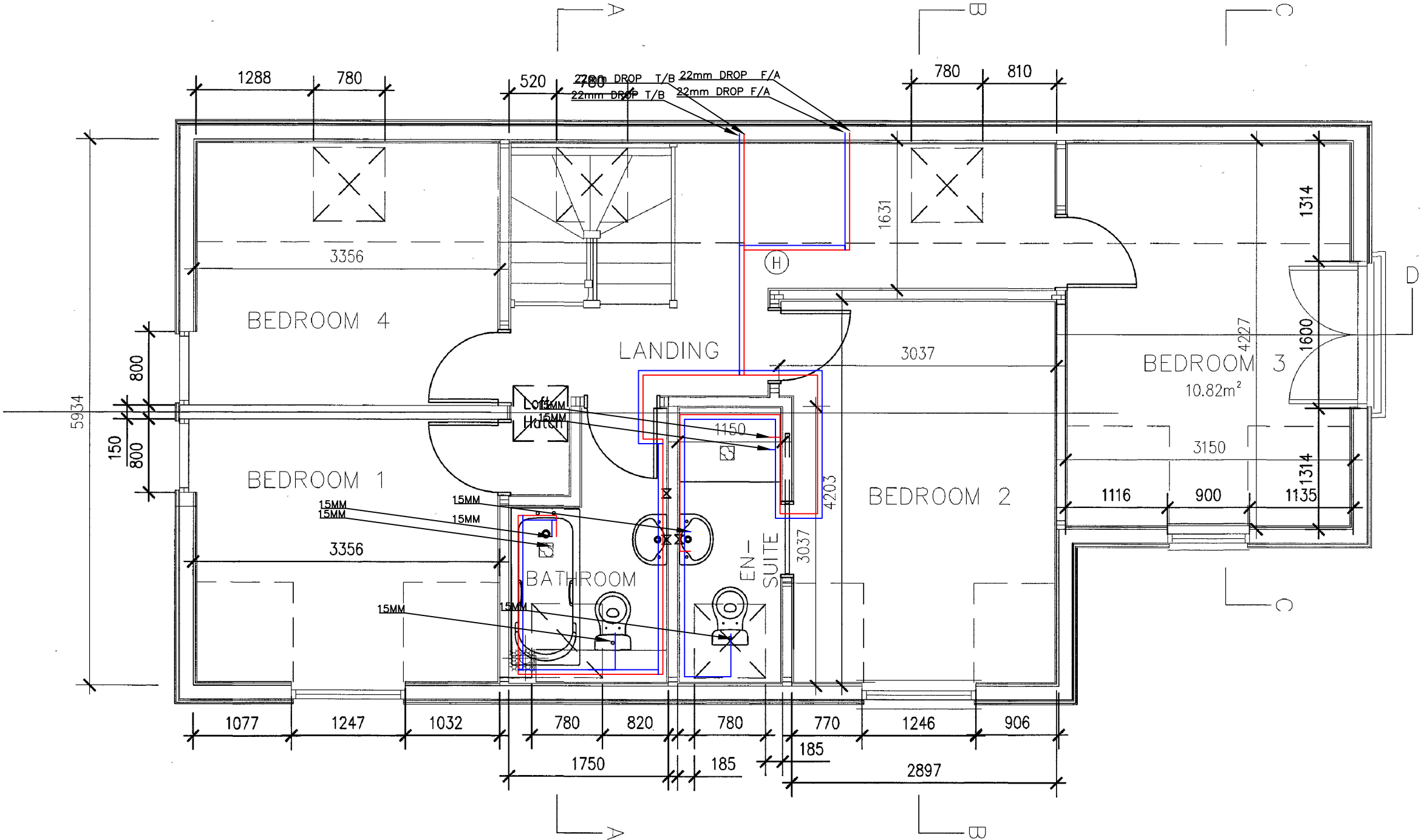
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| | 230V ROOM STAT | | 230V NEO STAT |
| FA | FROM ABOVE | TA | TO ABOVE |
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DRAWING TYPE HOT & COLD WATER SERVICES	PROJECT Rear of 6 Petlands Road, Haywards Heath	DWG NO:	310631806177	
DRAWING TITLE FIRST FLOOR	CLIENT	ISSUE DATE:	25/06/2026	
DWELLING TYPE HOUSE	ON BEHALF OF JOULE HEATING SOLUTIONS	SCALE:	1:50 @ A3	
		REVISION:	01	

NOTES - HEATING SERVICES

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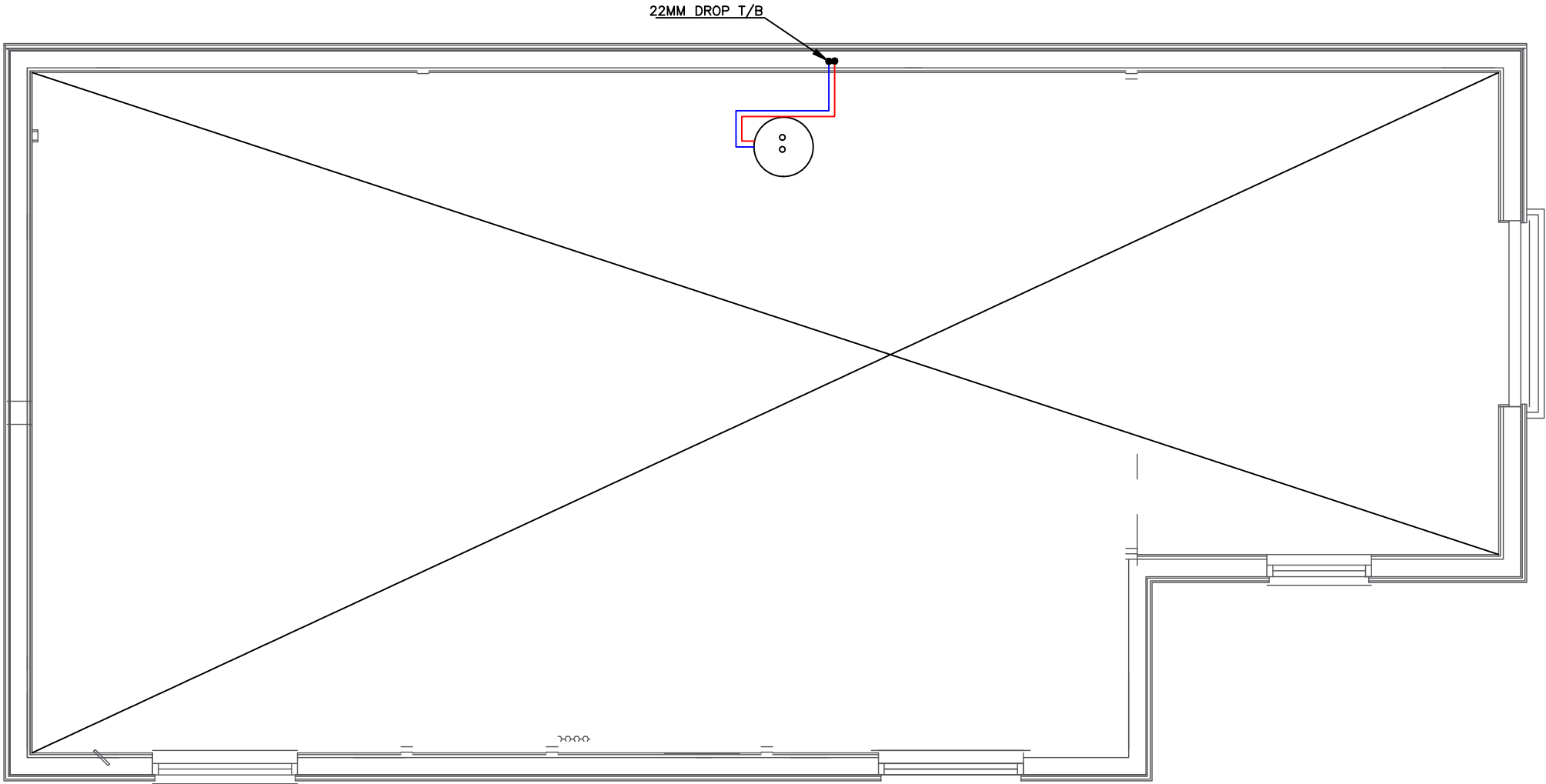
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DRAWING TYPE HOT & COLD WATER SERVICES	PROJECT Rear of 6 Petlands Road, Haywards Heath	DWG NO:	310631806177	
DRAWING TITLE LOFT	CLIENT	ISSUE DATE:	25/06/2026	
DWELLING TYPE HOUSE	ON BEHALF OF JOULE HEATING SOLUTIONS	SCALE:	1:50 @ A3	
		REVISION:	01	