

Heritage Projects incorporating renewables

By Felix Emery

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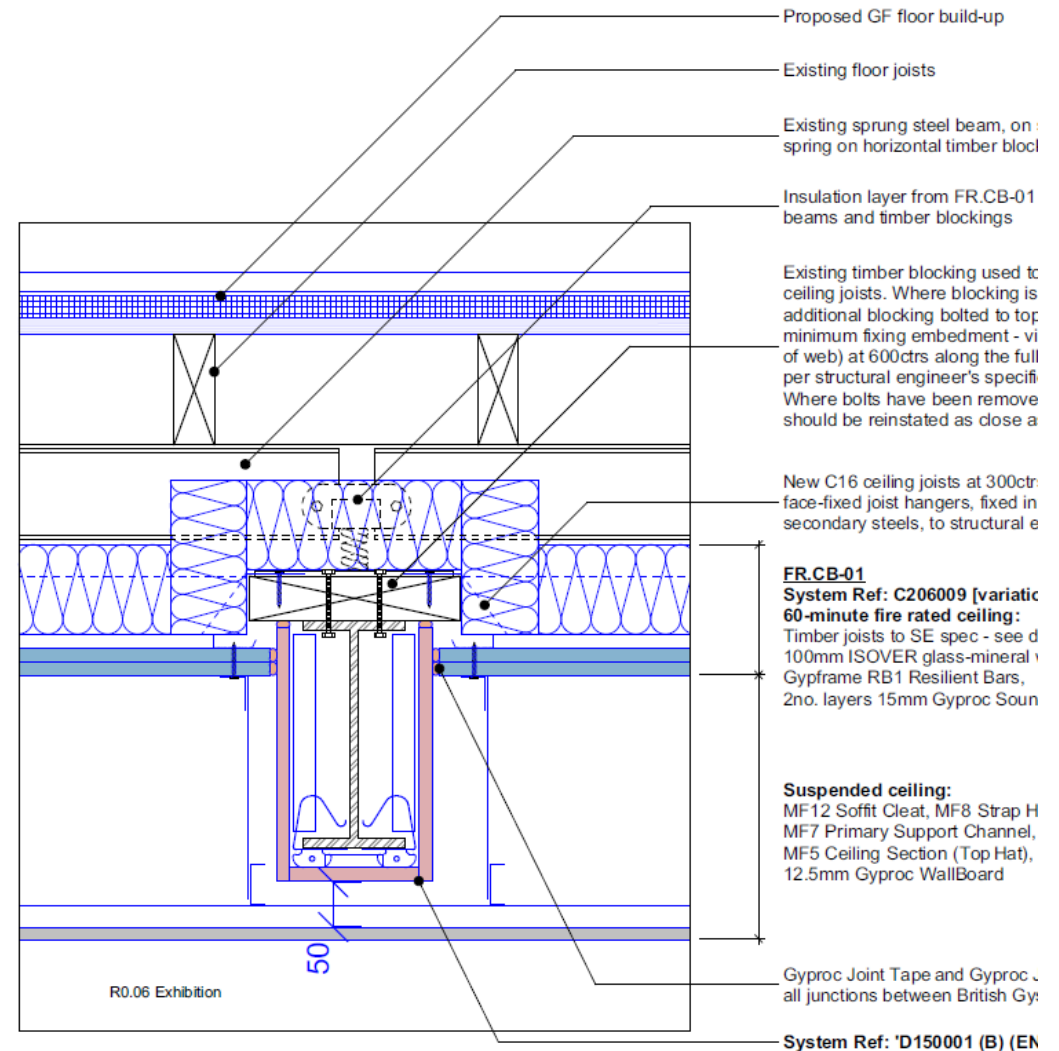
Recent heritage projects incorporating renewables

- Bath Abbey Footprint Project – heat recovery from Bath’s roman drain
- Beckford’s Tower – ASHPs and solar panels
- Francis Hotel, Queen’s Square – solar panels
- Bath Assembly Rooms – ASHPs

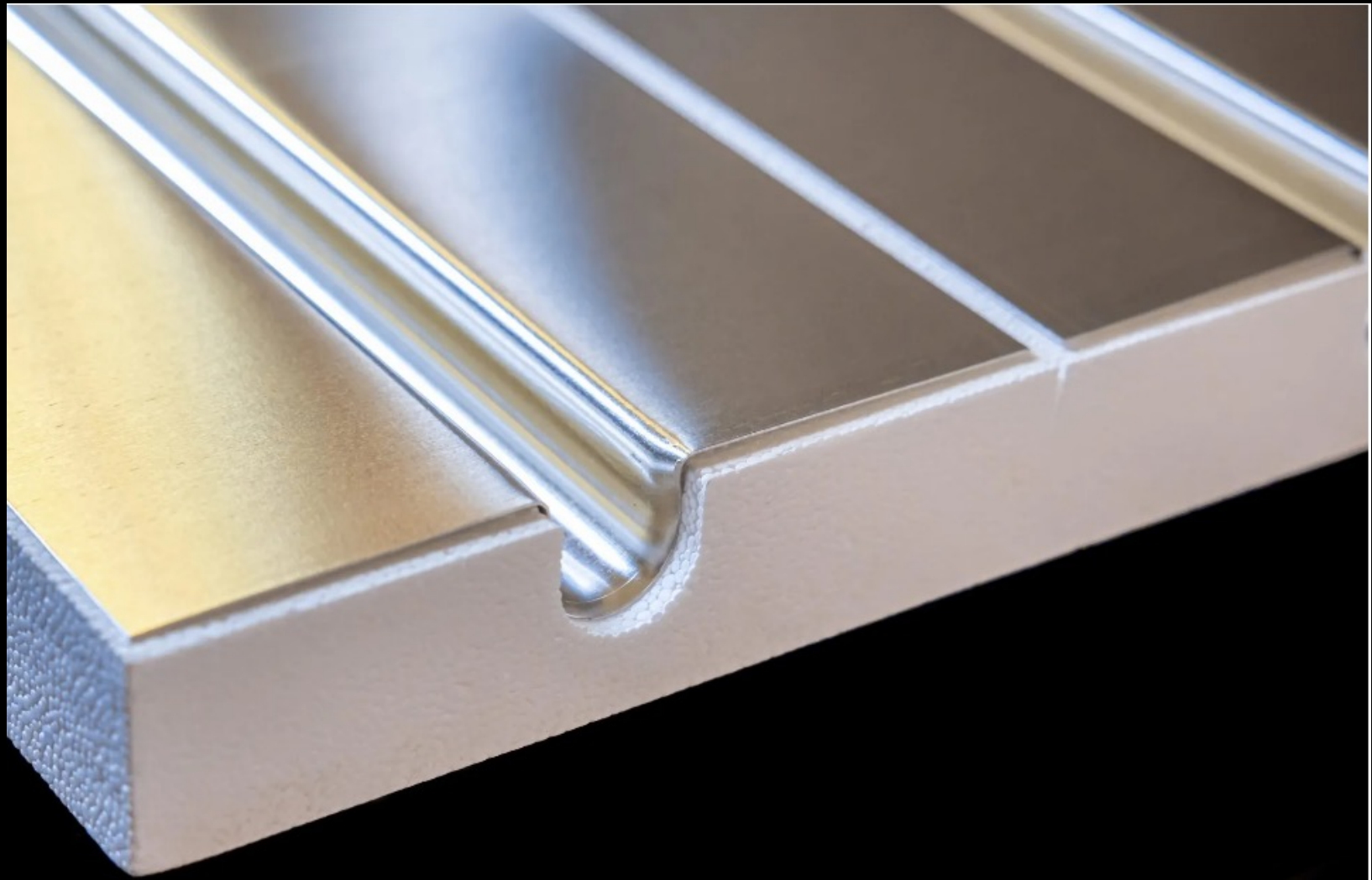


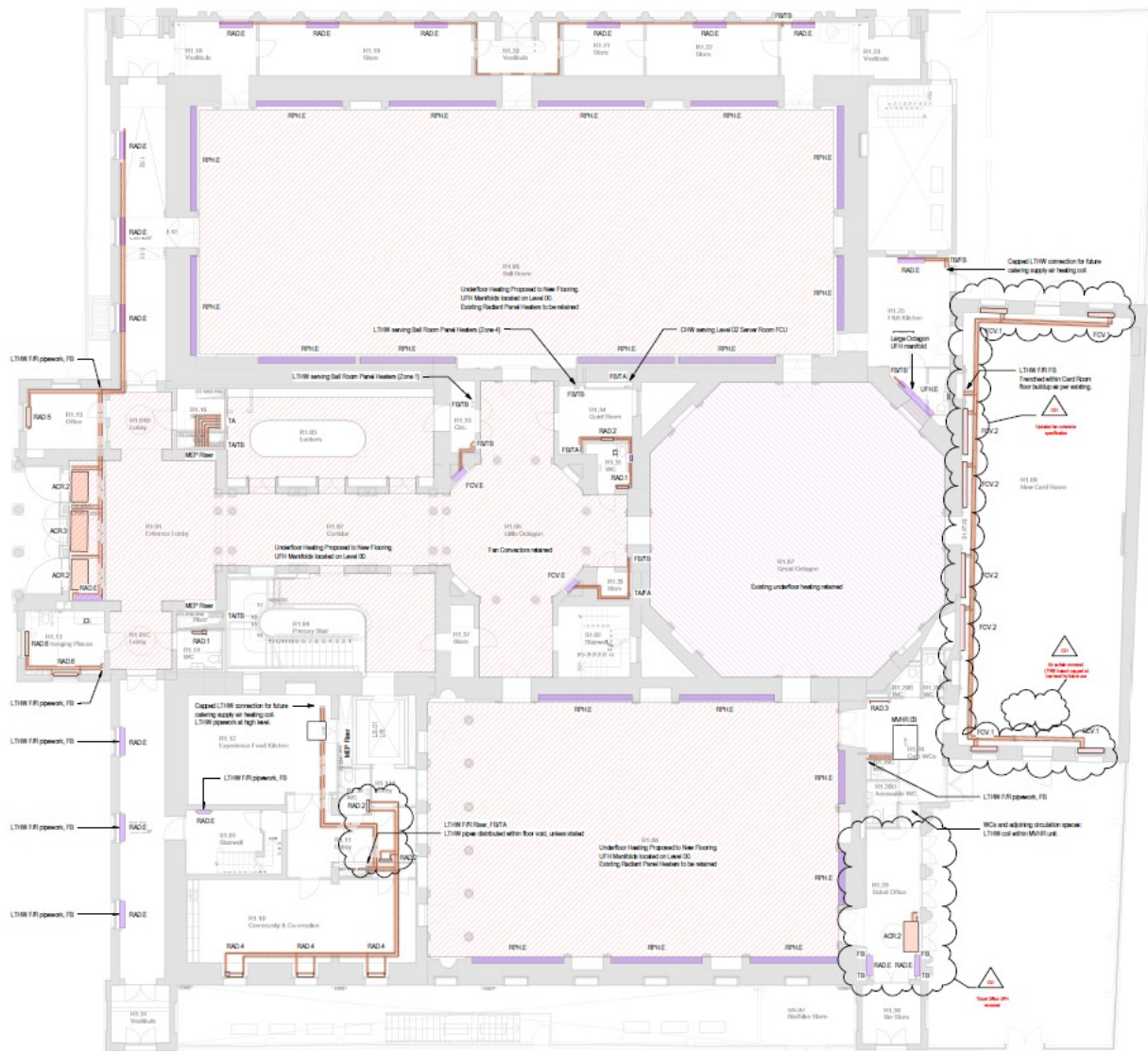
Bath Assembly Rooms

- 27 ASHPs to be installed across 2 arrays.
Each 13kw capacity for a total output of up to 351kw.
- Heating provided by new UFH and radiators along with existing paneled radiators to the principal rooms.



2.Detail 5116.A- Secondary Beam Encasement Typical Detail
1:5





GENERAL NOTES

1. Do not scale from this drawing.
2. Print this drawing in color.
3. This drawing is to be read in conjunction with all other MCF documents (Drawings, Schedule and Specifications) along with other design team documentation.

PROJECT SPECIFIC NOTES

1. Contractor to review existing heating installation. Where installation is in section change and is identified as retained. Contractor to advise who area where installation is to be removed or damaged.
2. Existing system is to be power flushed before connection of new pipework and written.

KEY

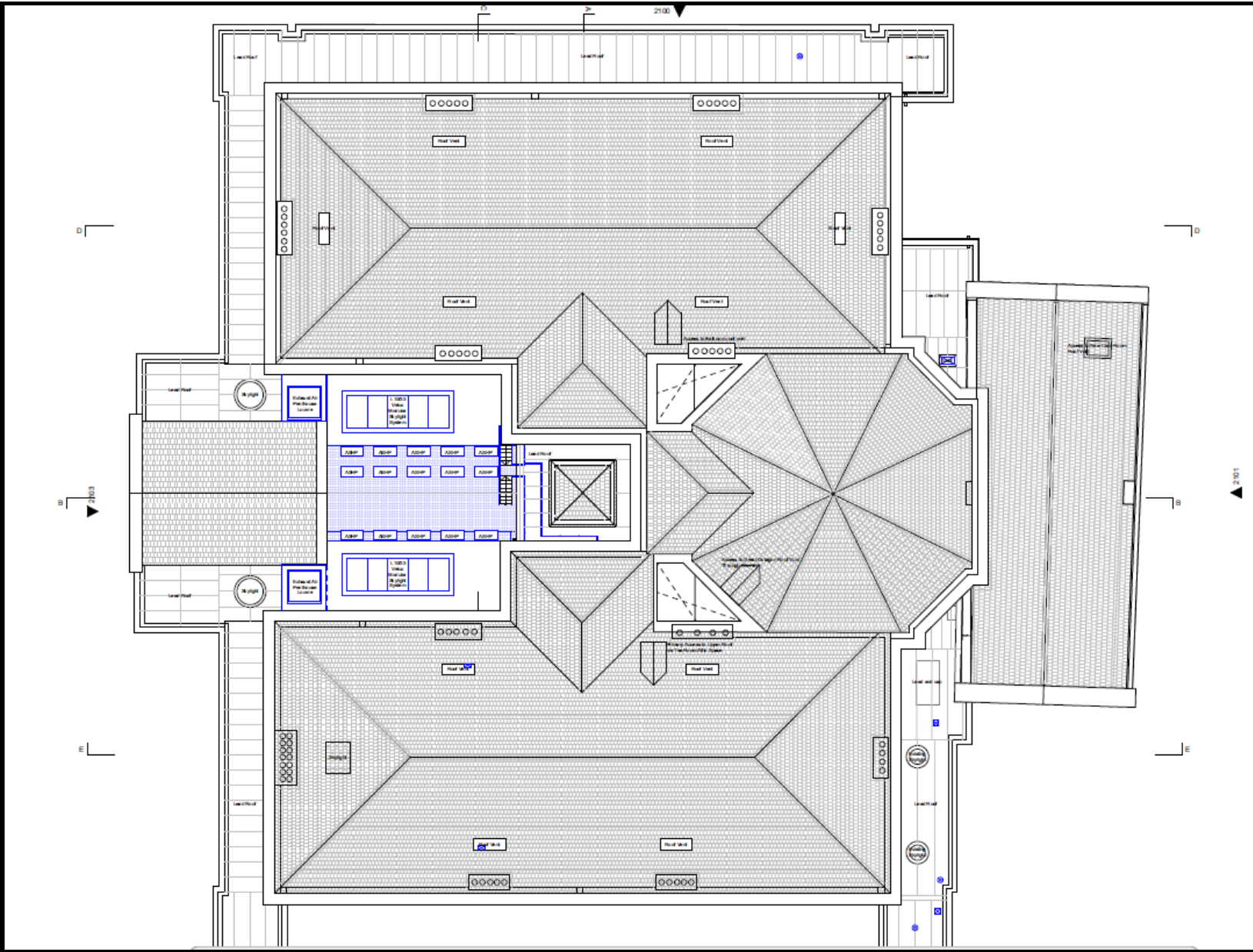
- Pipework - LTHW Flow
- Pipework - LTHW Return
- Pipework - CHW Flow
- Pipework - CHW Return
- Pipework - High Level
- Pipework - Low Level
- Underfloor Heating Zone Existing
- Underfloor Heating Zone New
- Heat Exchanger (Radiators, Fan Convectors) Existing
- Heat Exchanger (Radiators, Fan Convectors) New
- RADx Radiator New, Flat
- RADx Radiator Existing
- FCVx Fan Convectors New, Flat
- FCVx Fan Convectors Existing
- RPHE Radiator Panel Heaters Existing
- FTHE Finned Tube Heaters Existing
- UFIx UFI Membranes Existing
- UFIx UFI Membranes New Flat
- AHXx Air Handling Unit
- MWHx Mechanical Ventilation w/ Heat Recovery Unit
- HPx Air Source Heat Pump
- ACRx Air Curtain
- FCUx Fan Coil Unit
- DSVx Duffler Vessel
- HXX Heat Exchanger
- EXPx Expansion Vessel
- GSFx Side Stream Filter
- PCUx Pressurisation Unit
- DPx Dosing Pod
- FAx From above
- TAx To above
- FBx From below
- TBx To below
- HLx High Level
- MLx Mid Level
- LLx Low Level
- F4x Flow and Return

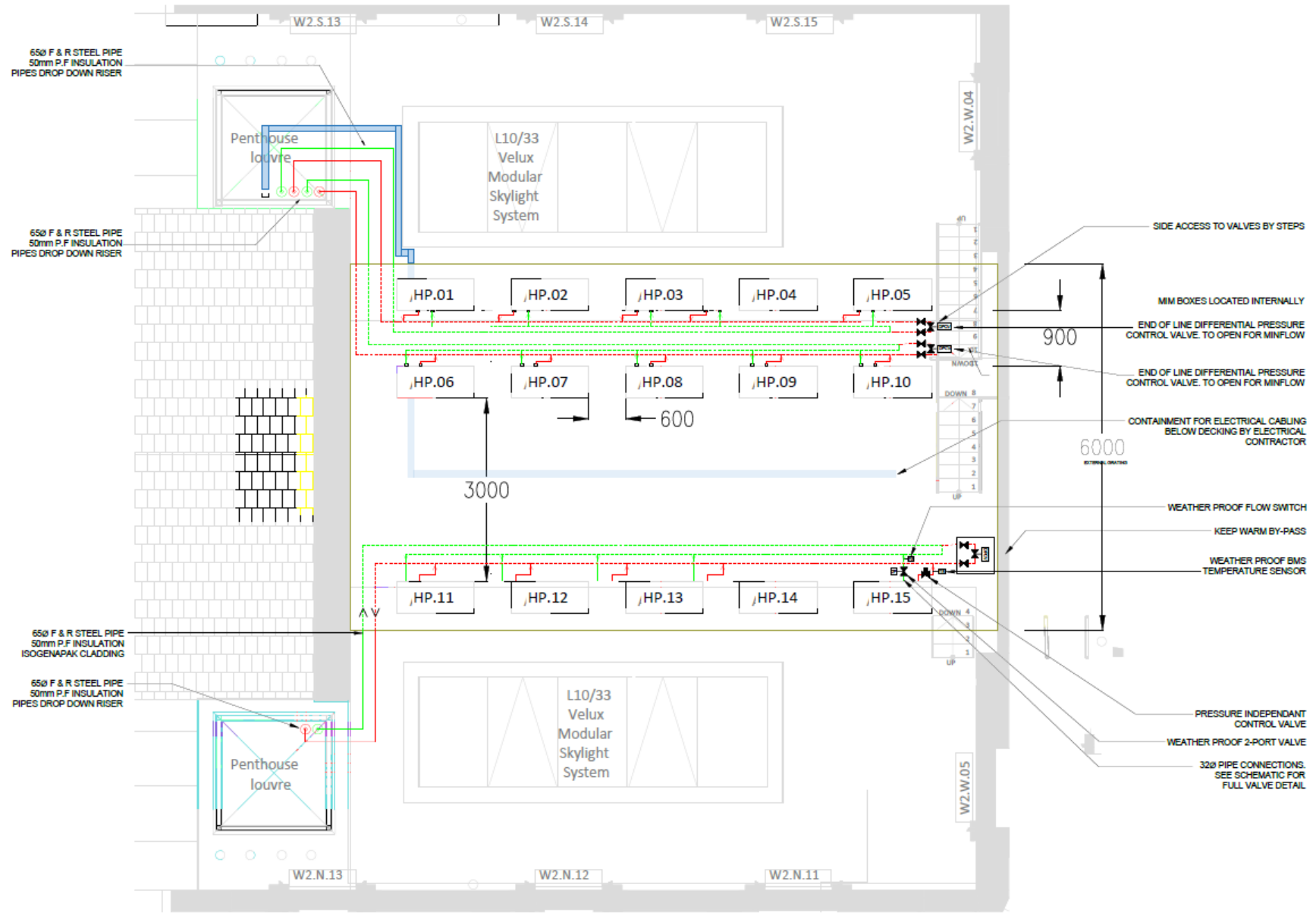
MAX FORDHAM

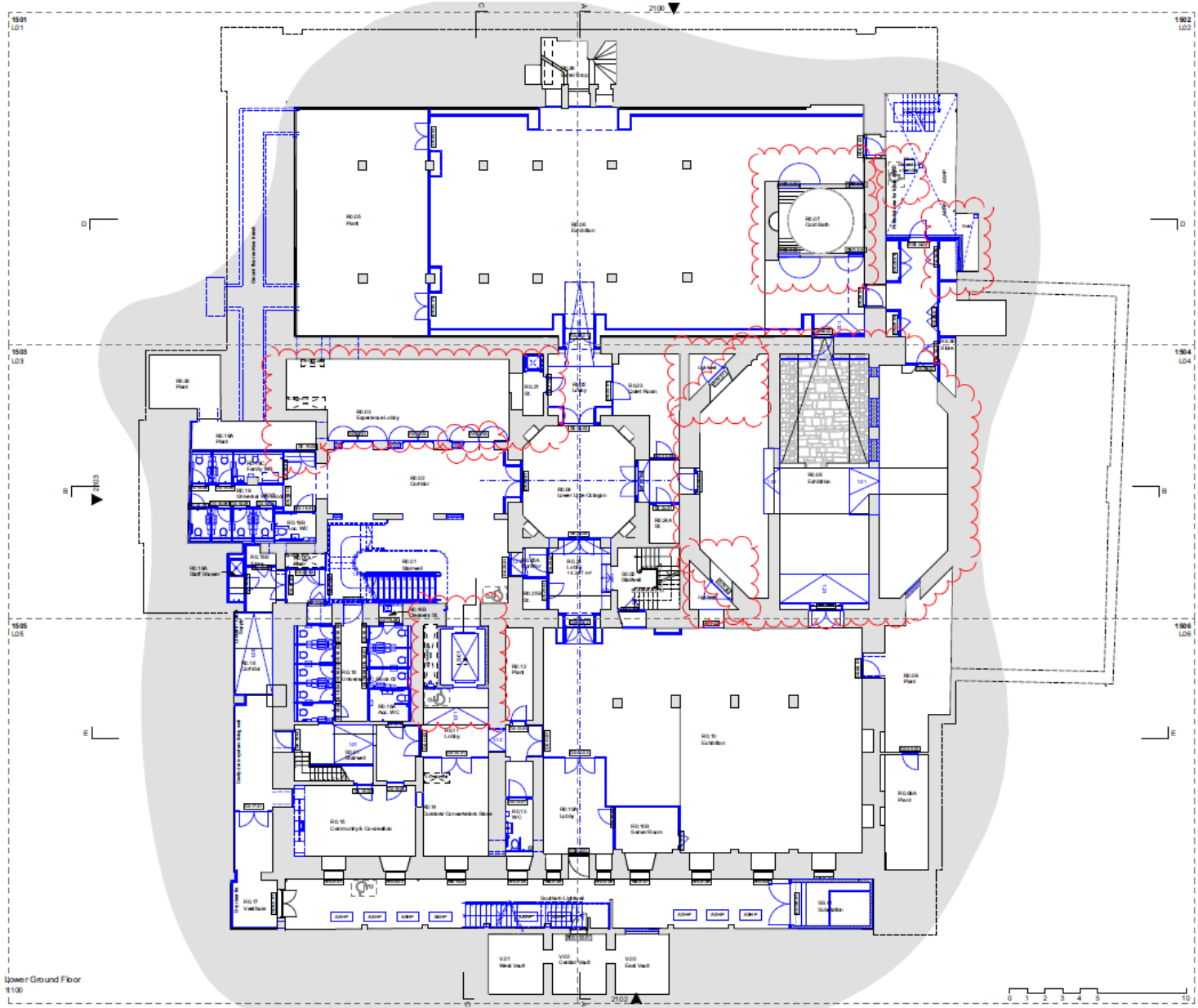
Client: National Trust
 Project leader: J7124 U
 Scale: 1:100
 Status code and description: A4 - Issued for Construction

Project name: Bath Assembly Rooms
 Issue date: 20/03/25
 Revision: C02
 Classification: S6_60_40_00_00

Drawing title: Space Heating and Cooling
 Level: 01
 Site: Layout
 Project code: J7124 - MXP - ZZ - 01
 Issue number: DR - M - 10100

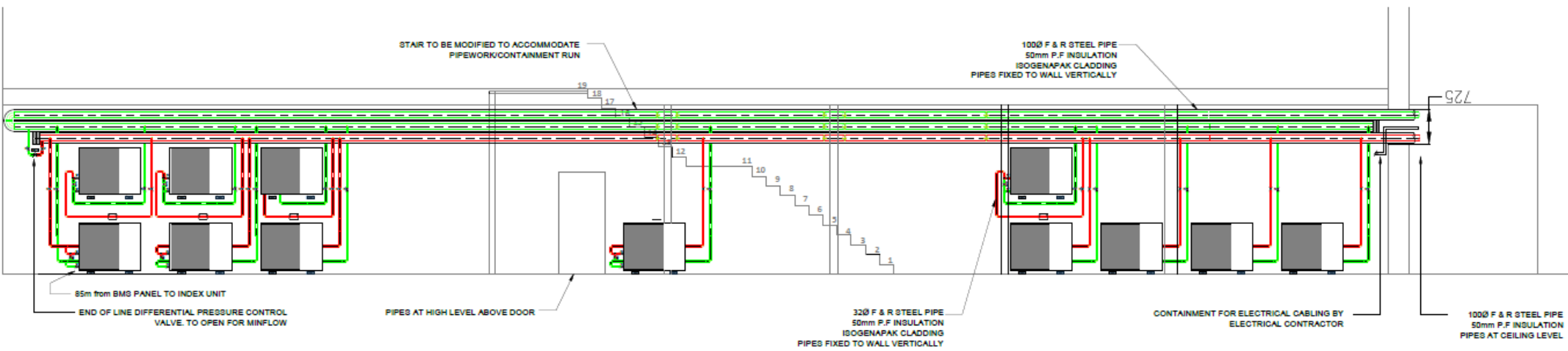






Lower Ground Floor
1100

PROPOSED MECHANICAL LAYOUT :- 1:100



PROPOSED MECHANICAL ELEVATION :- 1:50





