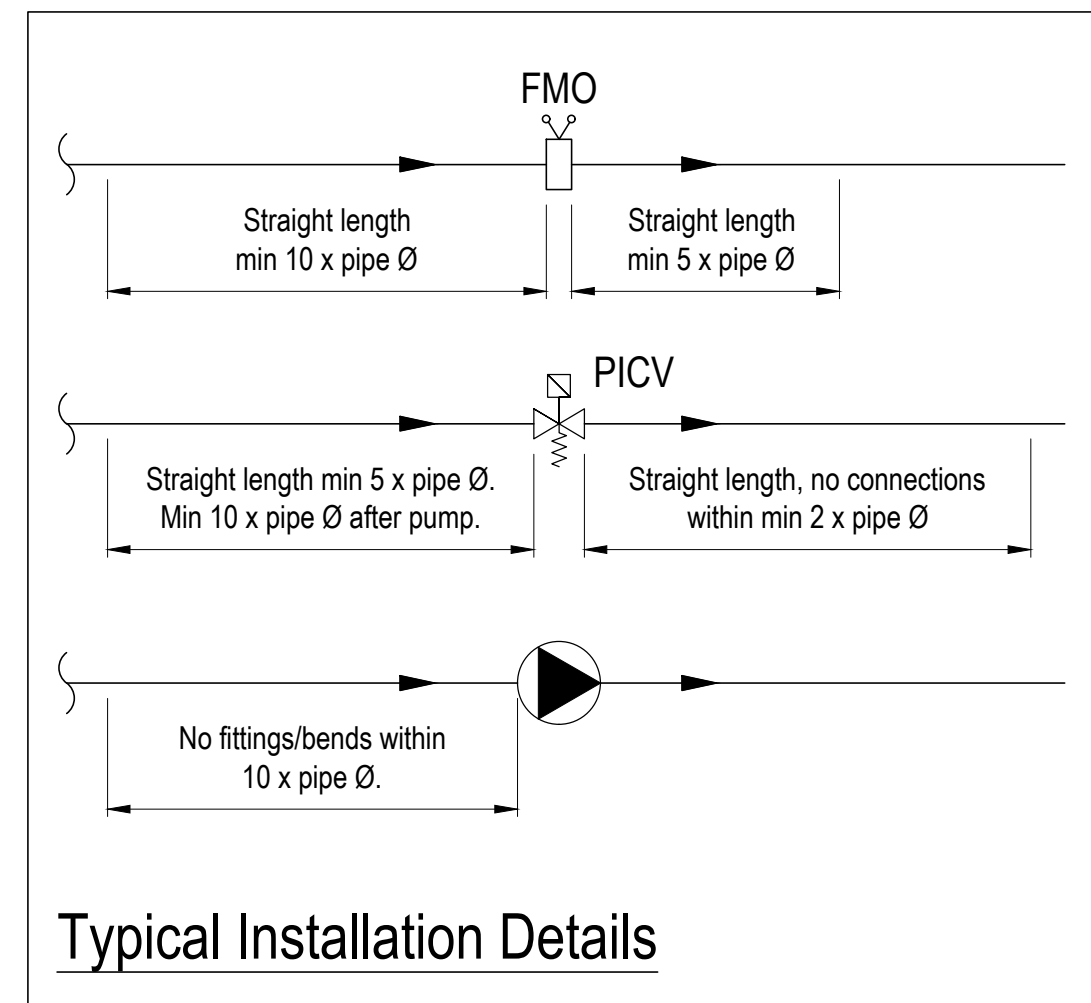


| Plant Ref.  | Duty                                                                                                                  | Description                                                                                                                                                                                                                                            | Manufacturer / Supplier | Product Range                                                                                             | Product Ref                            | Quote Ref |
|-------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------|-----------|
| AS TH1      | Full In-Line Flow                                                                                                     | Smart Microbubble Air Separator with Compressed Particle Extractor and automatic air vent.                                                                                                                                                             | Flamco                  | Flamcovent Smart F                                                                                        |                                        |           |
| BMS TH1     | As per detailed quotation.                                                                                            | Management system with both local and remote maintenance access to ensure all plant can operate as intended and raise a fault alarm, including an automatic email message, should an item of plant become faulty. Incorporated safety system as noted. |                         | Distech                                                                                                   |                                        |           |
| CDP TH1     | 25 Litre                                                                                                              | Wall Mounted chemical dosing pot with funnel, non-return valve on fill line and air release valve.                                                                                                                                                     | ESG Waterwise           | DP                                                                                                        | DP25                                   |           |
| DS TH1      | Full In-Line Flow                                                                                                     | Smart Dirt Separator with Compressed Particle Extractor, supermagnets, dirt collector, double scraper and drain off.                                                                                                                                   | Flamco                  | Clean Smart F                                                                                             |                                        |           |
| EPF TH1     | 9220 litres System Volume.<br>2.1 bar cold fill, 1.8 bar minimum pressure, 2.3 bar final pressure. 6 bar safety valve | Pressure maintenance, pump driven expansion provision, vacuum degassing and water make up.                                                                                                                                                             | IMI Hydronic            | Pleno water make-up, Compresso Pressurisation/Expansion unit, Vento Vacuum Degasser, Braincube controller | Pleno PIX, Compresso C 10-1 F, Vento V |           |
| PMP TH1     | 4.77 l/s @ 117 kPa / Pump                                                                                             | Single-stage, close-coupled, volute pumps with in-line suction and discharge ports of identical diameter. Operating as Duty/Standby. Installed on Inertia bases.                                                                                       | Grundfos                | TPE3 40-180                                                                                               | 99272305                               |           |
| SSF TH1     | 2.3m³/hr filtration                                                                                                   | Skid mounted sidestream filtration package with closed recovery system, bag filtration, and insulation kit. Bag filter to be reduced to 5 micron bags before system is handed over.                                                                    | Socotec                 | CSF Filter with CRS dirt recovery system                                                                  | CSF 0505 & CRS 8-15                    |           |
| PMP TH2     | XXX l/s @ xxxkPa / Pump                                                                                               | Twin head variable speed pumpset, including built-in frequency converter. Operating as Duty/Standby. Installed on Inertia bases.                                                                                                                       | Grundfos                | TBC                                                                                                       | TBC                                    |           |
| PHX         |                                                                                                                       |                                                                                                                                                                                                                                                        |                         |                                                                                                           | AQ2L-FM                                |           |
| HWC 01 & 02 | 3000L total                                                                                                           | Indirect hot water cylinder                                                                                                                                                                                                                            | Hoval                   | CombiVal CR                                                                                               | 1500                                   |           |

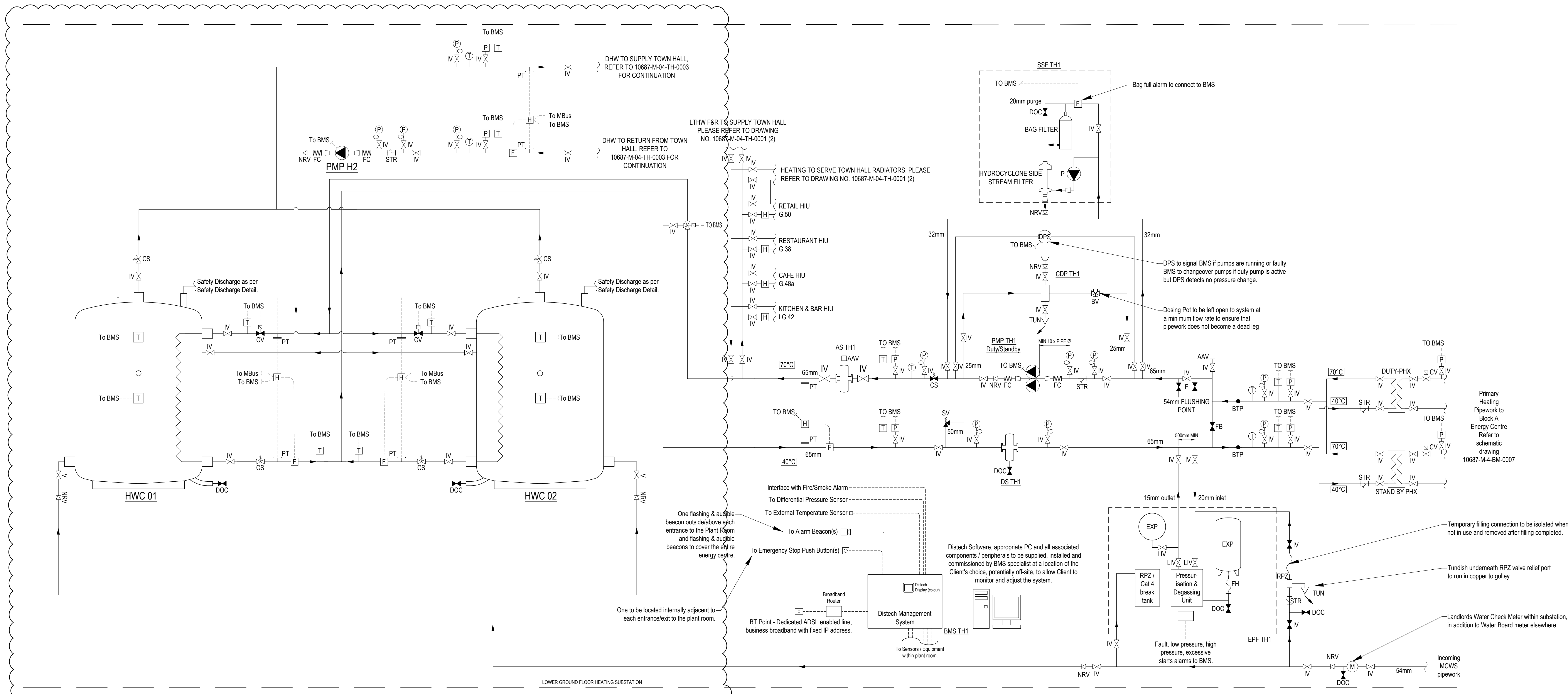


| NOTE: ALL PIPE WORK AND FITTINGS TO BE INSULATED AS PER THE SPECIFICATION. GENERALLY WITH THE FOLLOWING MINIMUM THICKNESS: |                           |                    |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------|
| PIPE SIZE (mm)                                                                                                             | MIN. INSULATION THICKNESS |                    |
|                                                                                                                            | MINERAL WOOL (mm)         | PERIOLIC FOAM (mm) |
| 15                                                                                                                         | 30                        | 15                 |
| 20                                                                                                                         | 30                        | 15                 |
| 25                                                                                                                         | 35                        | 20                 |
| 32                                                                                                                         | 35                        | 20                 |
| 40                                                                                                                         | 35                        | 20                 |
| 50                                                                                                                         | 40                        | 25                 |
| 65                                                                                                                         | 40                        | 25                 |
| 80                                                                                                                         | 40                        | 25                 |
| 100                                                                                                                        | 45                        | 25                 |
| 125                                                                                                                        | 45                        | 30                 |
| 150                                                                                                                        | 45                        | 30                 |
| 200                                                                                                                        | 50                        | 30                 |
| 250                                                                                                                        | 50                        | 30                 |

**Copyright, Designs and Patents Act 1988**  
The copyright, design right, the design documents & the design remains that of Whitecube Ltd. All copies are only for information about the application. They may not be used for any other purpose or copied without the express written permission of Whitecube Ltd.

**Conflict of interest**  
It shall remain the responsibility of the Installer/contractor to ensure that there are no conflicts with information provided by suppliers & that of manufacturers information or relevant documents of liability bodies & Client (specification) etc. If there is a conflict of interest, it shall be the responsibility of the Installer/contractor to inform the Coordinator/Client immediately verbally & in writing.

**WARNING TO HOUSEHOLDERS (PROMOTED BY - Property Misdescriptions Act 1991)**  
Buyers are warned that this is a working drawing and is not intended to be treated as descriptive material describing in detail the design and dimensions of the building. It is intended to be used for planning purposes only, or development, and any of the Specific Methods prescribed by an Order made under the above Act. The contents of this drawing may be subject to change at any time & alterations and variations can occur during the progress of the works without revision of the drawing. Consequently the layout, form and dimensions shown in this drawing are not intended to be relied on for anything other than those shown. No drawing is intended to be a binding contract or part of a contract of a warranty.



- 

PLEASE NOTE THAT ALL PIPE WORK IS IN MEDIUM GRADE STEEL.  
ALL HORIZONTAL PIPEWORK IS TO RISE TO VENT.

ALL PIPEWORK HIGH POINTS ARE TO BE VENTILATED AND LOW POINTS ARE TO BE FITTED WITH DRAIN OFF COCKS.

|                   |            |                                |            |          |
|-------------------|------------|--------------------------------|------------|----------|
| C1                | 16.07.2021 | Updated hot water cylinder     | SV         | EJ       |
| P2                | 21.08.2020 | Updated to show buffer vessels | SV         | EJ       |
| P1                | 21.02.2020 | Preliminary issue              | DALS       | JC       |
| Rev               | Date       | Description                    | Drawn      | Check    |
| Current revision: |            | R01 BJH/AV                     | Scale: NTC | Cons: 40 |



Title: HEATING DISTRIBUTION SCHEMATIC

HEATING DISTRIBUTION SCHEMATIC  
TOWN HALL  
SHEET 1 OF 2

|              |                      |
|--------------|----------------------|
| SHEET 1 OF 2 |                      |
| Project:     | HORNSEY<br>TOWN HALL |

|             |                        |      |    |
|-------------|------------------------|------|----|
| Client:     | ARDMORE                | Rev: | C1 |
| Dwg Number: | 10007.11.01.TU.0001(1) |      |    |

|                        |  |
|------------------------|--|
| 10687-NF-04-TH-0001(1) |  |
|------------------------|--|