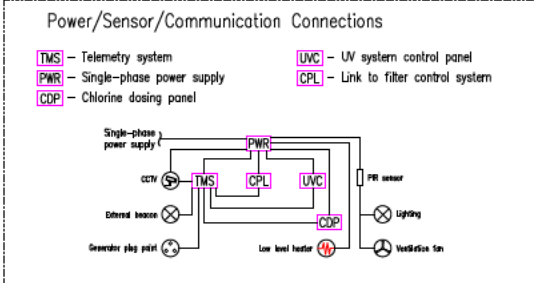
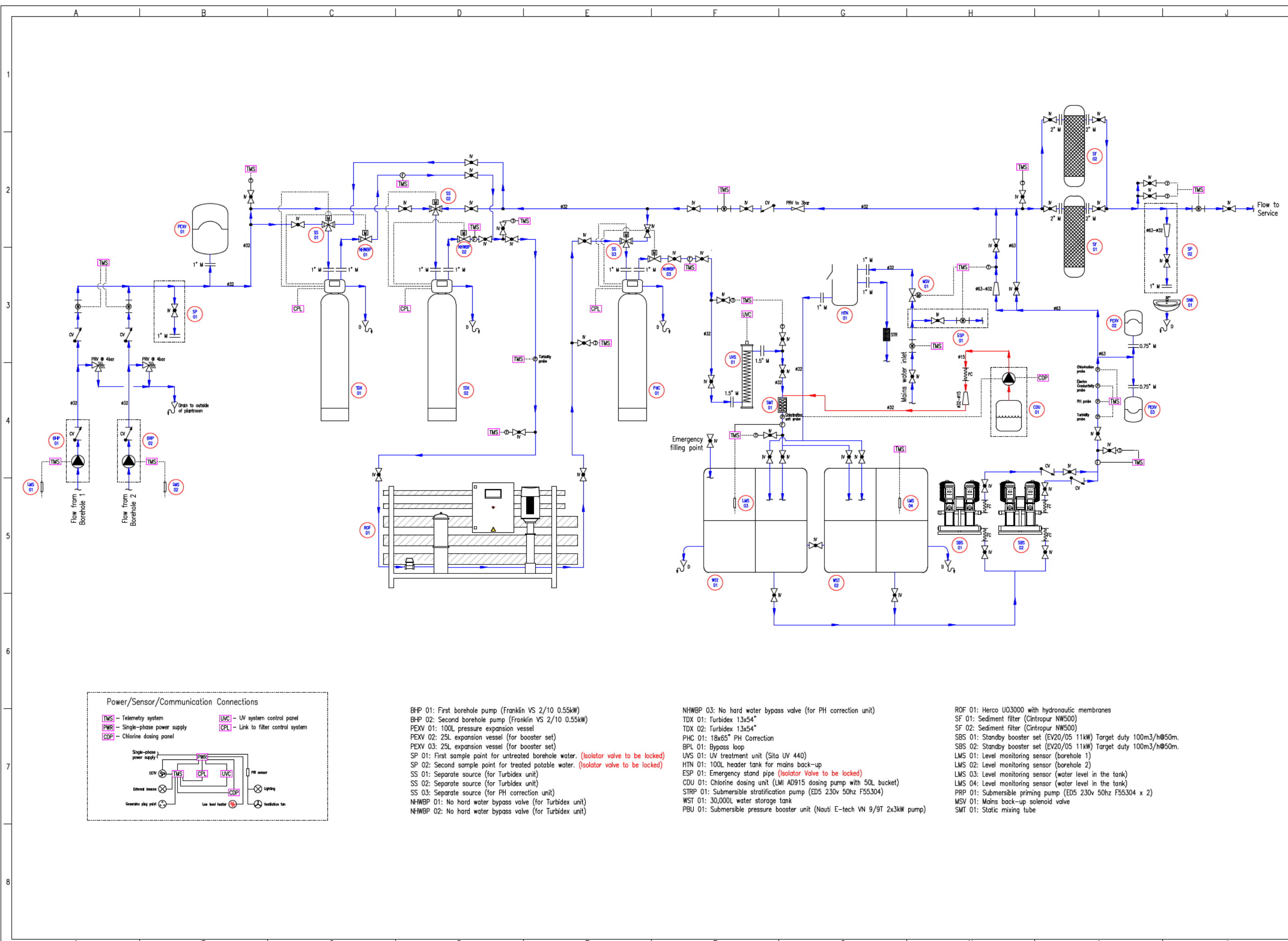


Appendix 1

DRAWINGS R1

To be read in conjunction with document BH1422 Arunlea Private Water Supply Management Plan R2

Date	Person reviewing	Actions
25.02.26	Simon Parsons	Added cover sheet



- BHP 01: First borehole pump (Franklin VS 2/10 0.55kW)
BHP 02: Second borehole pump (Franklin VS 2/10 0.55kW)
PEXV 01: 100L pressure expansion vessel
PEXV 02: 25L expansion vessel (for booster set)
PEXV 03: 25L expansion vessel (for booster set)
SP 01: First sample point for untreated borehole water. (Isolator valve to be locked)
SP 02: Second sample point for treated potable water. (Isolator valve to be locked)
SS 01: Separate source (for Turbidex unit)
SS 02: Separate source (for Turbidex unit)
SS 03: Separate source (for PH correction unit)
NHWP 01: No hard water bypass valve (for Turbidex unit)
NHWP 02: No hard water bypass valve (for Turbidex unit)
- NHWP 03: No hard water bypass valve (for PH correction unit)
TDX 01: Turbidex 13x54"
TDX 02: Turbidex 13x54"
PHC 01: 18x65" PH Correction
BPL 01: Bypass loop
UVS 01: UV treatment unit (Sita UV 440)
HTN 01: 100L header tank for mains back-up
ESP 01: Emergency stand pipe (Isolator Valve to be locked)
CDU 01: Chlorine dosing unit (LMI AD915 dosing pump with 50L bucket)
STRP 01: Submersible stratification pump (ED5 230v 50hz F55304)
WST 01: 30,000L water storage tank
PBU 01: Submersible pressure booster unit (Nauti E-tech VN 9/9T 2x3kW pump)

- ROF 01: Herco UO3000 with hydnraulic membranes
SF 01: Sediment filter (Cintropur NW500)
SF 02: Sediment filter (Cintropur NW500)
SBS 01: Standby booster set (EV20/05 11kW) Target duty 100m3/h@50m.
SBS 02: Standby booster set (EV20/05 11kW) Target duty 100m3/h@50m.
LMS 01: Level monitoring sensor (borehole 1)
LMS 02: Level monitoring sensor (borehole 2)
LMS 03: Level monitoring sensor (water level in the tank)
LMS 04: Level monitoring sensor (water level in the tank)
PRP 01: Submersible priming pump (ED5 230v 50hz F55304 x 2)
MSV 01: Mains back-up solenoid valve
SMT 01: Static mixing tube

General Notes

Labour Division
Unless otherwise specified in Nicholls Bill of Quantities, all ground work, brick / block work and back filling of holes and trenches are to be priced and completed by others.
All pipe work and tanks are to be back filled with clean shingle to prevent damage to pipes.

Mains Power
Unless otherwise stated, mains power is to be provided to a IP56 Rated junction box with isolation switch at or near the plant room/borehole. All electrical connections to the mains supply as well as outlets are to be priced and completed by a qualified electrician. By others.

Water
Untreated borehole water is a category 5 supply and may harbour pathogens. A break gap of 30mm with header tank is required between the incoming mains and incoming borehole supplies.
See <http://www.wras.co.uk/> for more information.

Surface Water
Unless otherwise stated and agreed all well covers will be raised to prevent surface contamination. In some circumstances recessed covers would be acceptable but clients will need to be made aware of the risks involved.

Contractors Responsibility
It is the contractors/Clients responsibility to protect from damage any and all bespoke components installed on site by Nicholls.

Clients Responsibility
It is the clients responsibility to monitor usage and any filter equipment. This is to ensure there has been no damage by others during the surrounding works by others. Nicholls cannot be held liable for any cost incurred from damage caused by others.

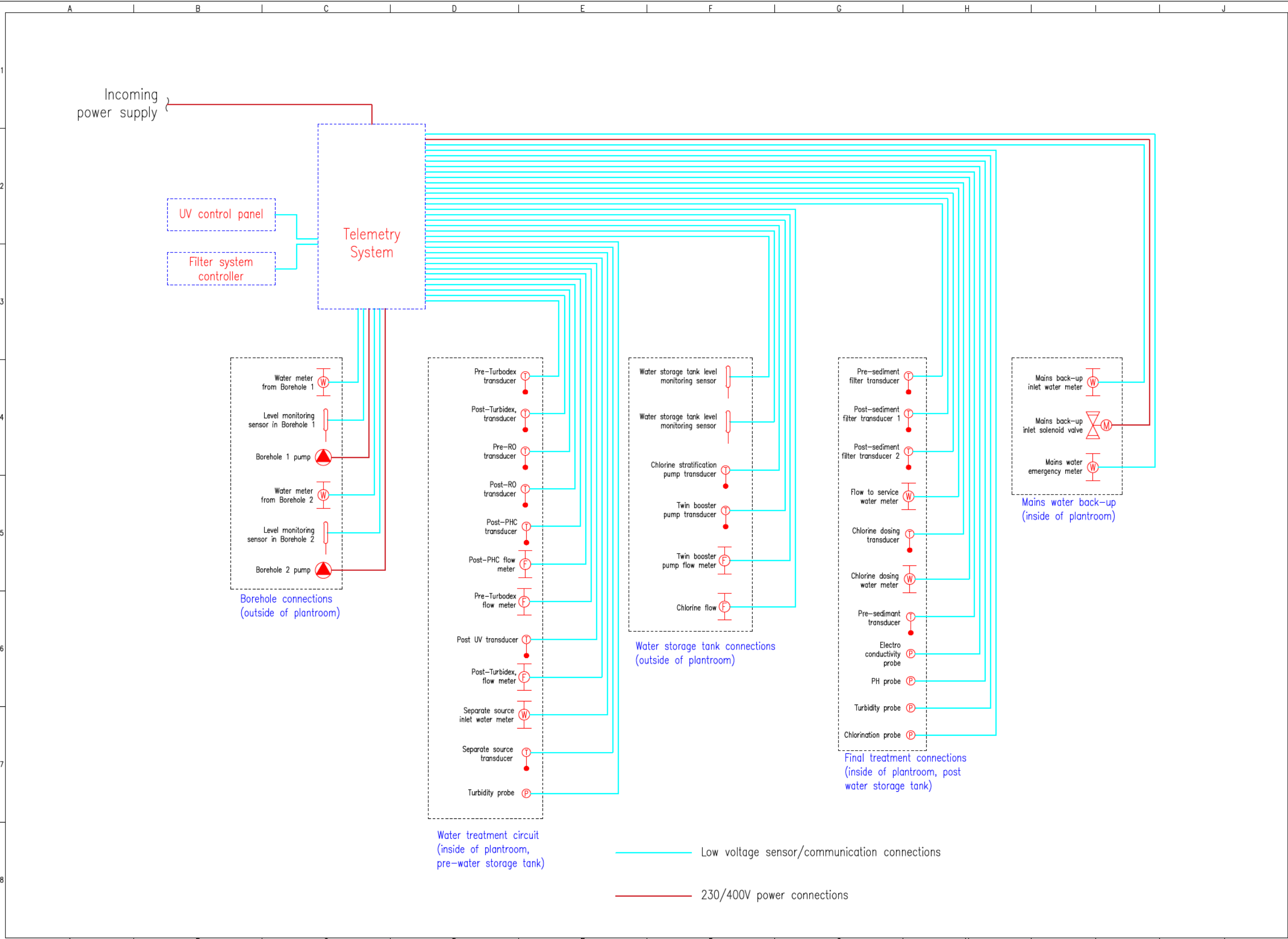
Notes:

Rev001, 14/02/2024, Preliminary design
Rev002, 28/02/2024, Amendments
Rev003, 28/02/2024, Amendment

Title: BH1422 Wellcross Farm
Client: Inspired Villages
Date: 28/02/2024
Revision: Rev003 Sheet: 1 of 2

Drawn: Mr Adam Hardiman
Checked: Mr Simon Parsons
Indicative layout for design purposes only. Final position to be confirmed on site. Drawing is not to be scaled.

NICHOLLS
BOREHOLES & GROUND SOURCE



General Notes

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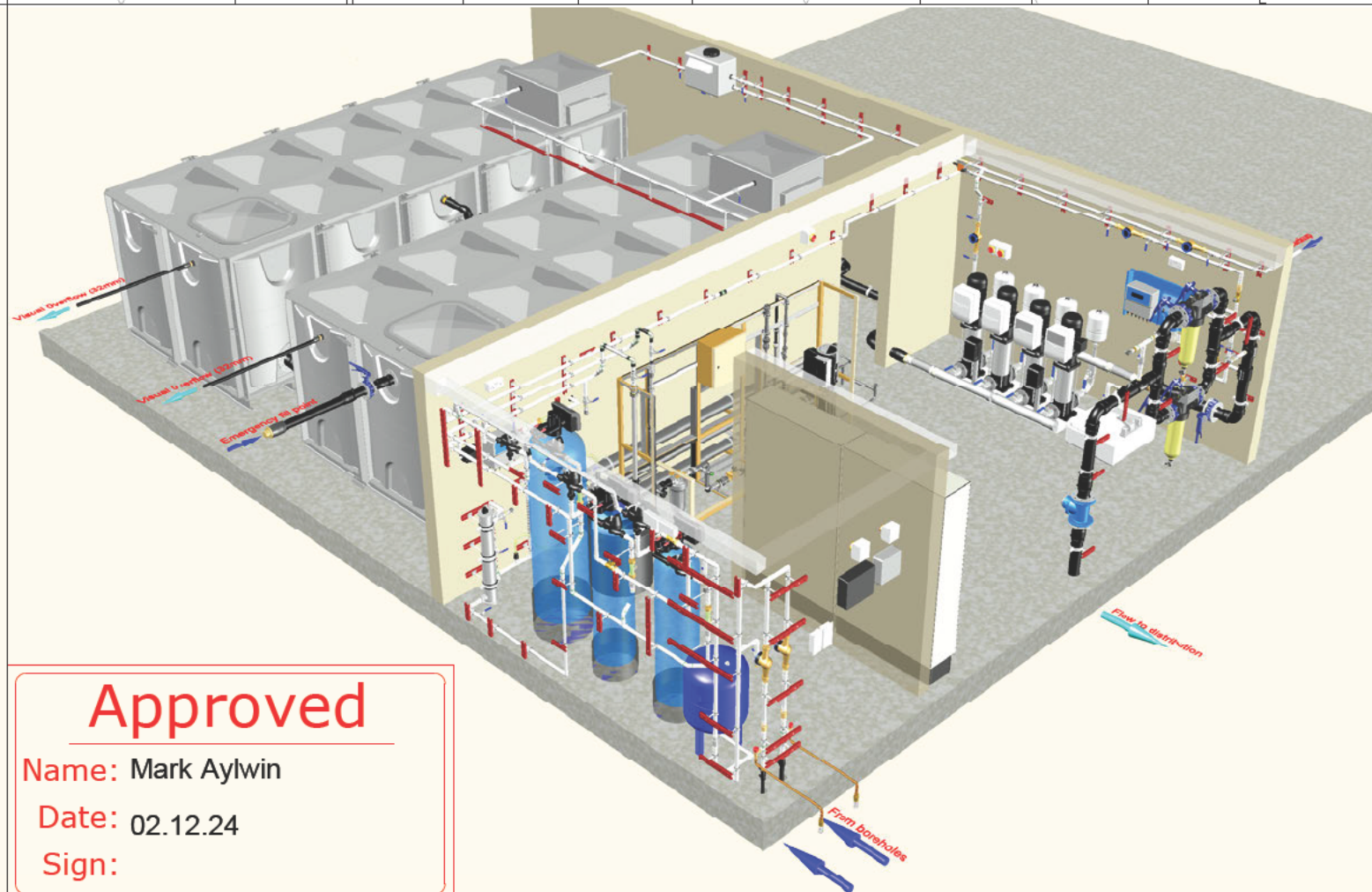
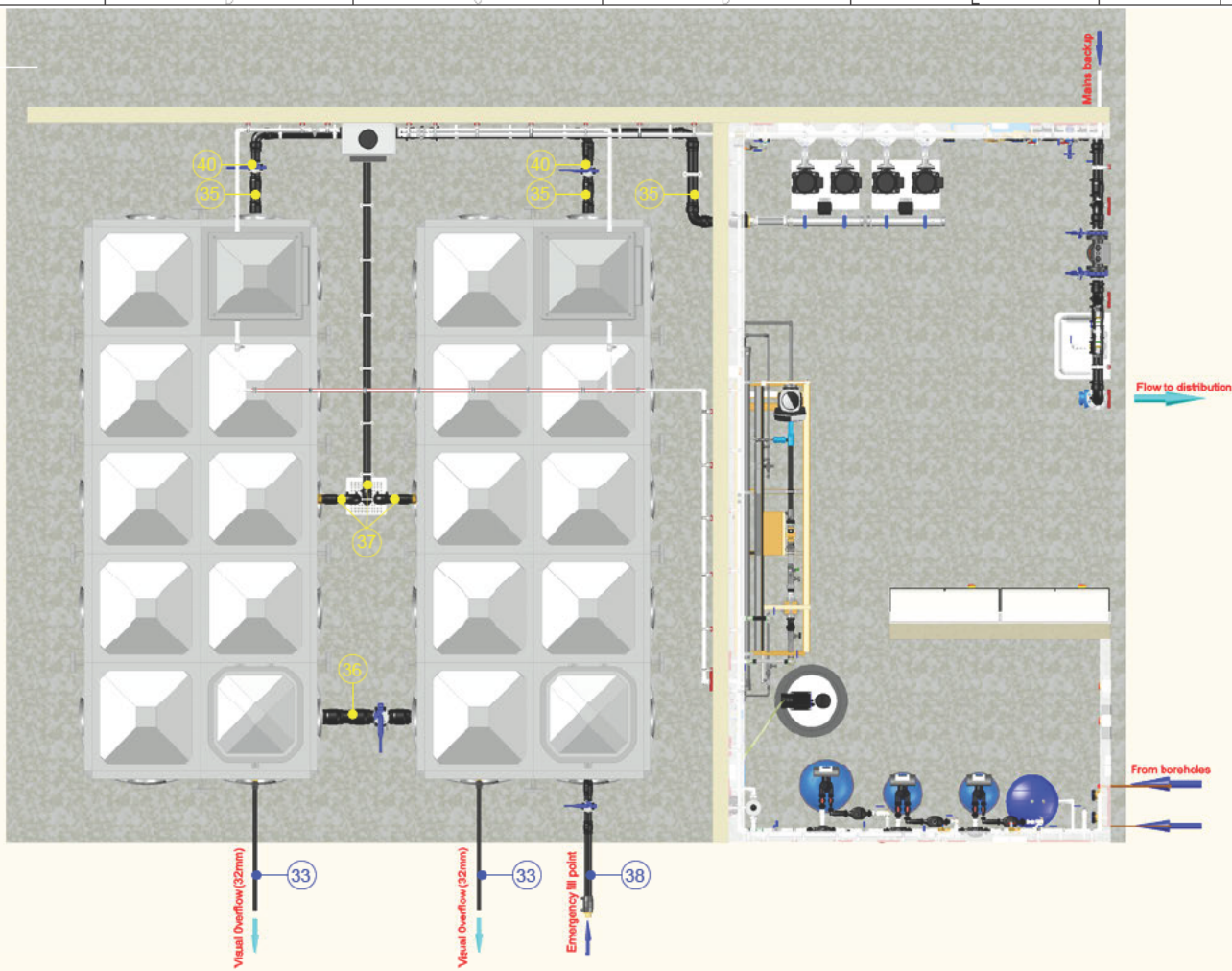
Rev001, 07/02/2024, Preliminary design
Rev002, 28/02/2024, Amendments
Rev003, 28/02/2024, Amendment

Title:	BH1422 Wellcross Farm		
Client:	Inspired Villages		
Date:	28/02/2024		
Revision:	Rev003	Sheet:	2 of 2

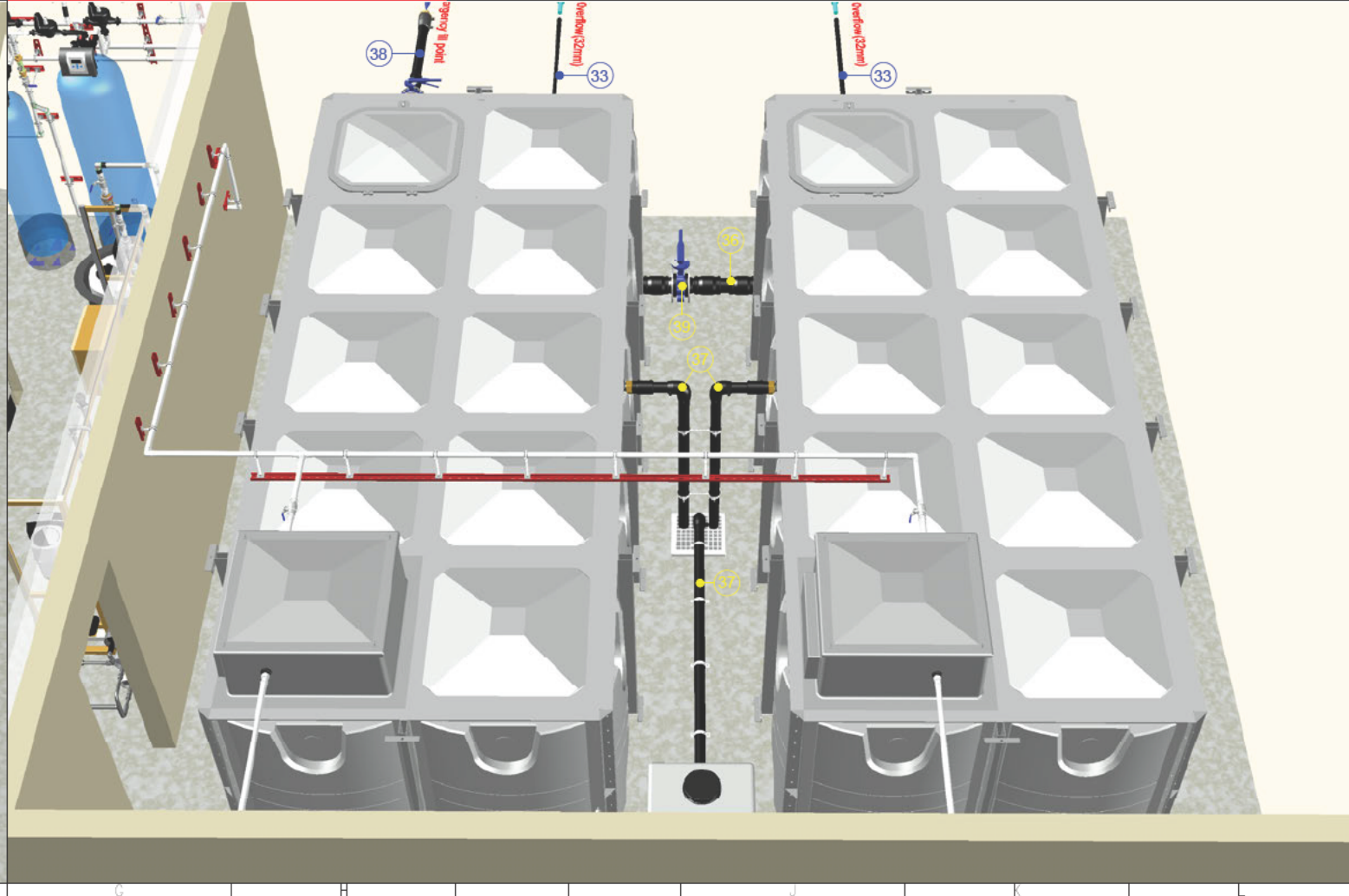
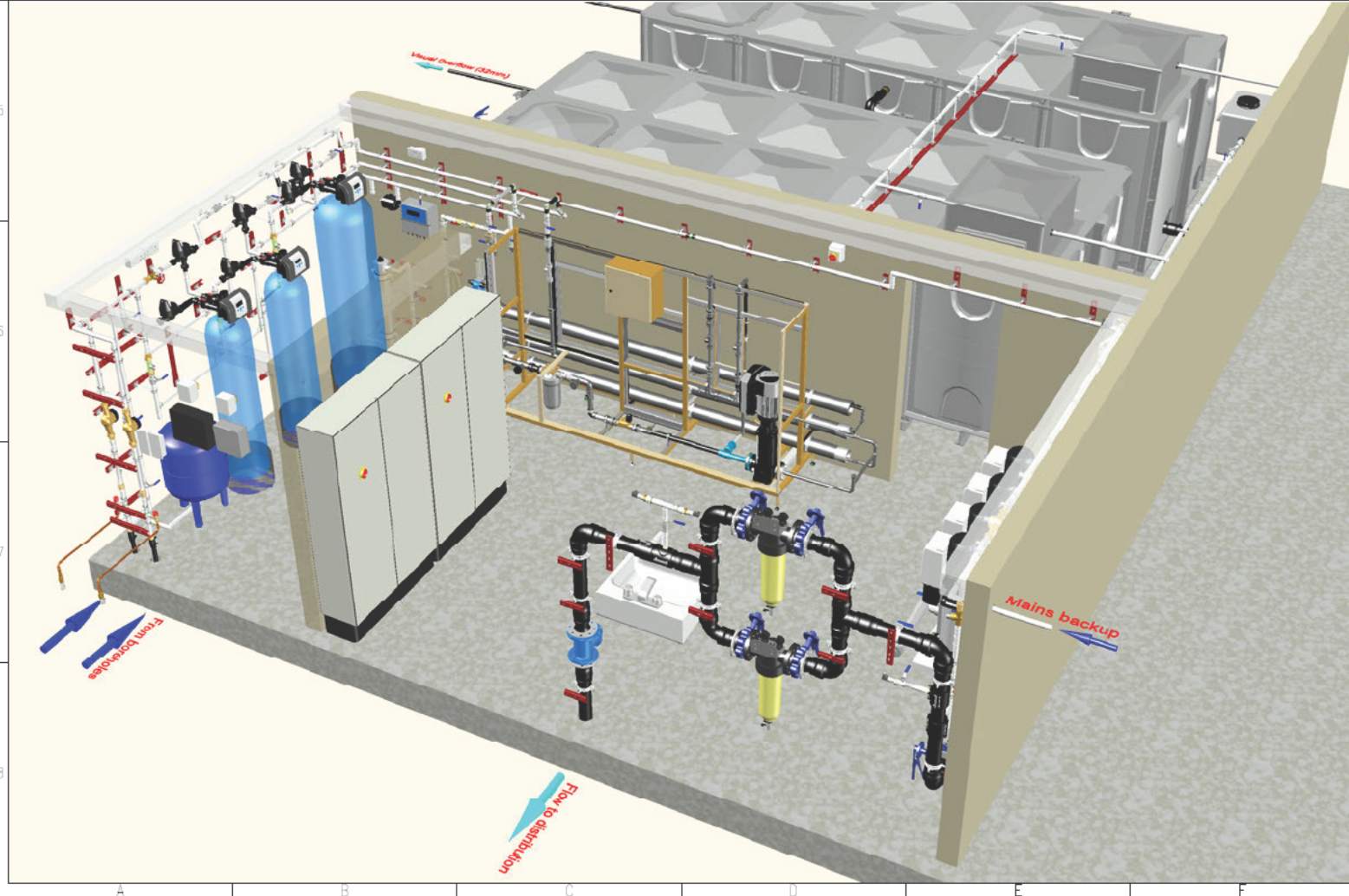
Drawn:	Mr Adam Hardiman
Checked:	Mr Simon Parsons



Indicative layout for design purposes only. Final position to be confirmed on site. Drawing is not to be scaled.



Approved
Name: Mark Aylwin
Date: 02.12.24
Sign:

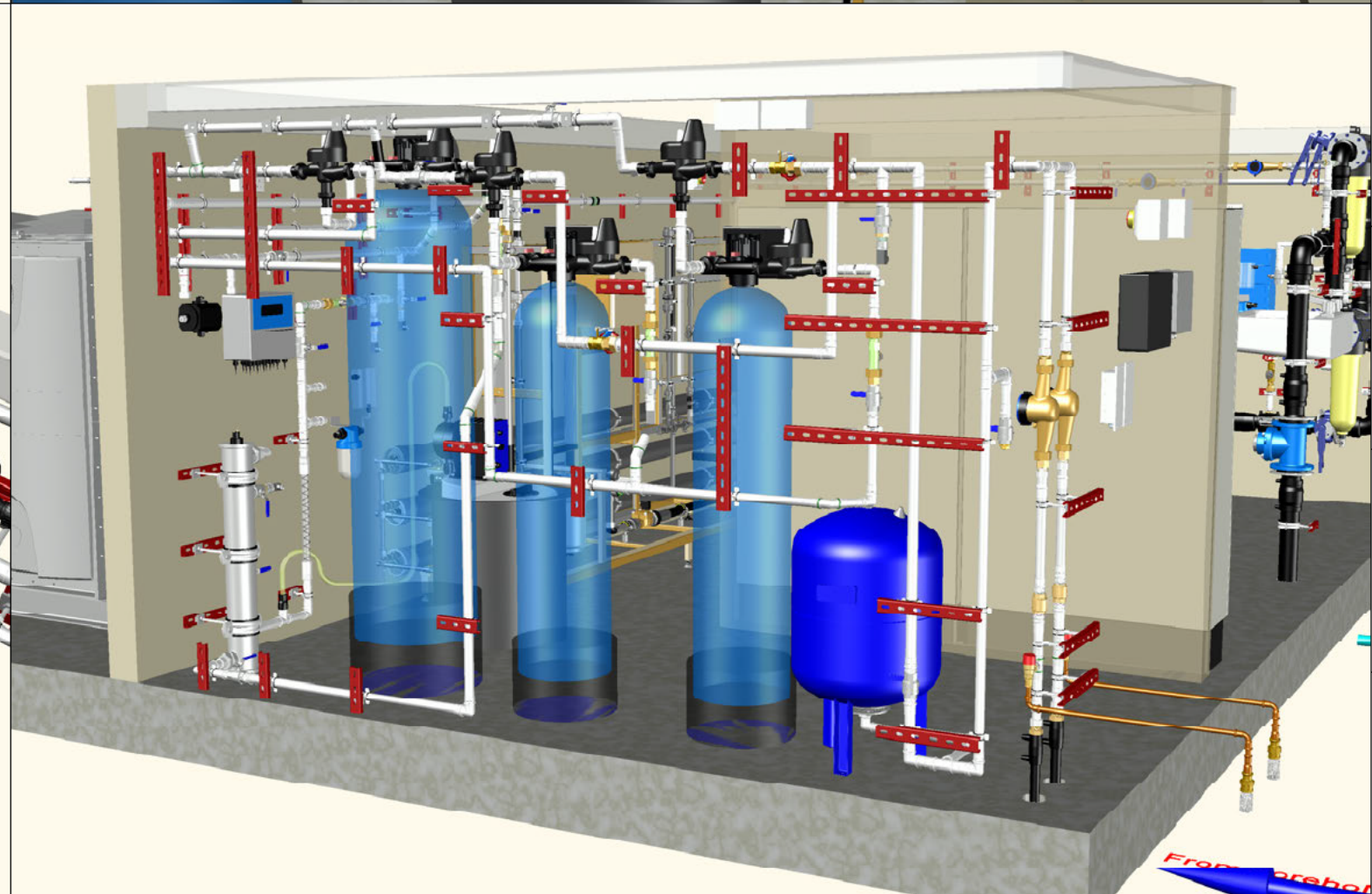
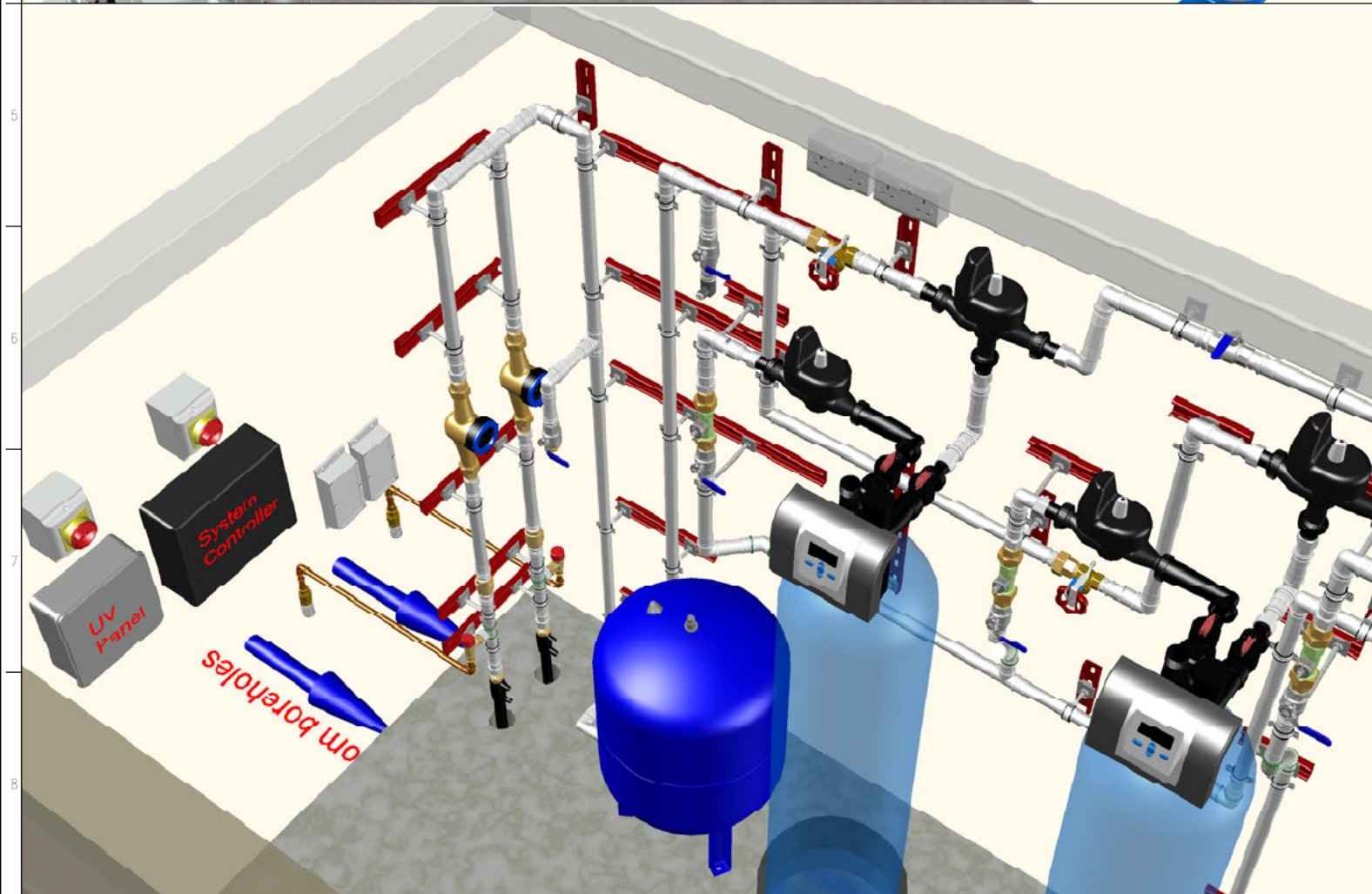
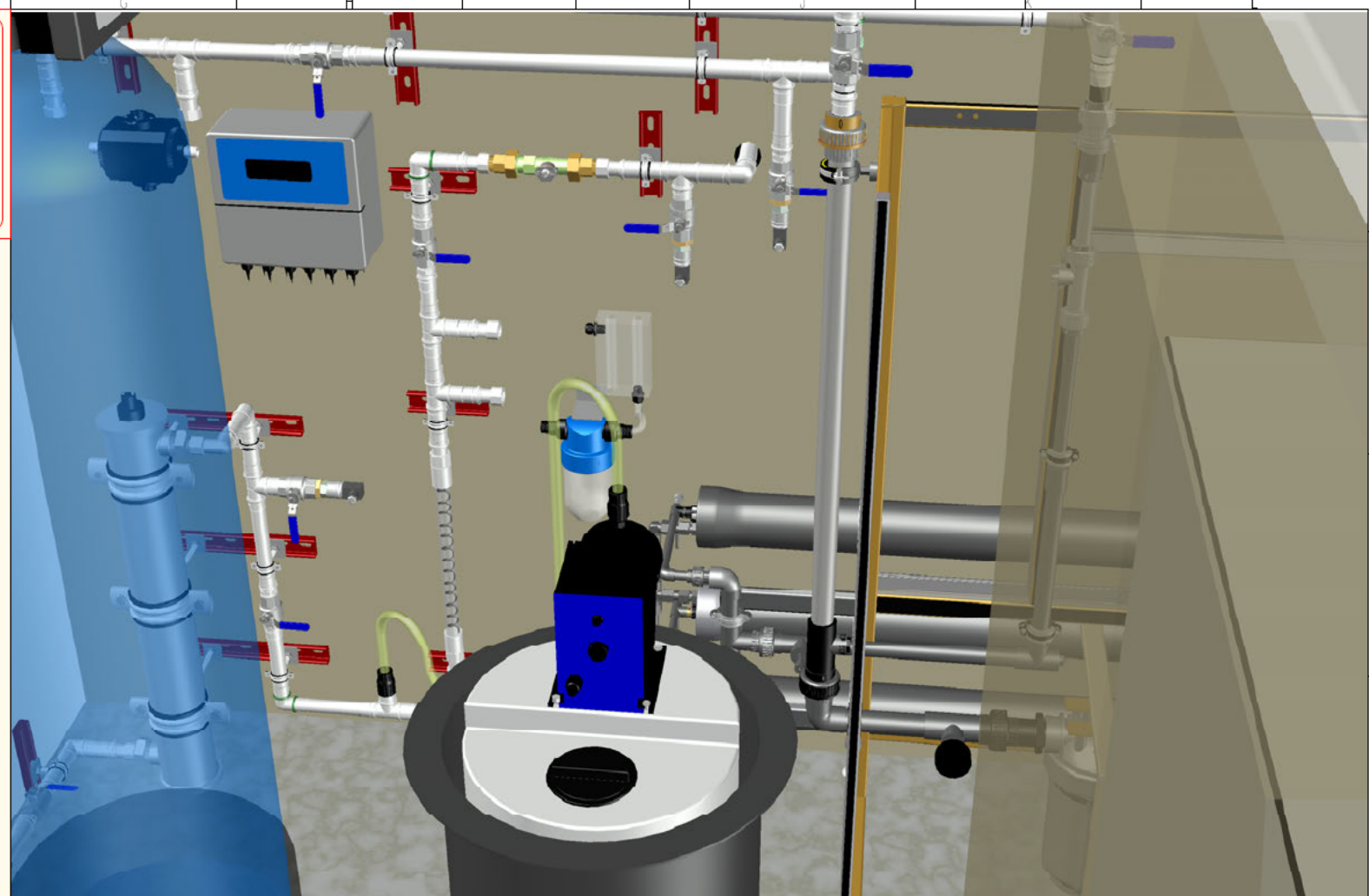
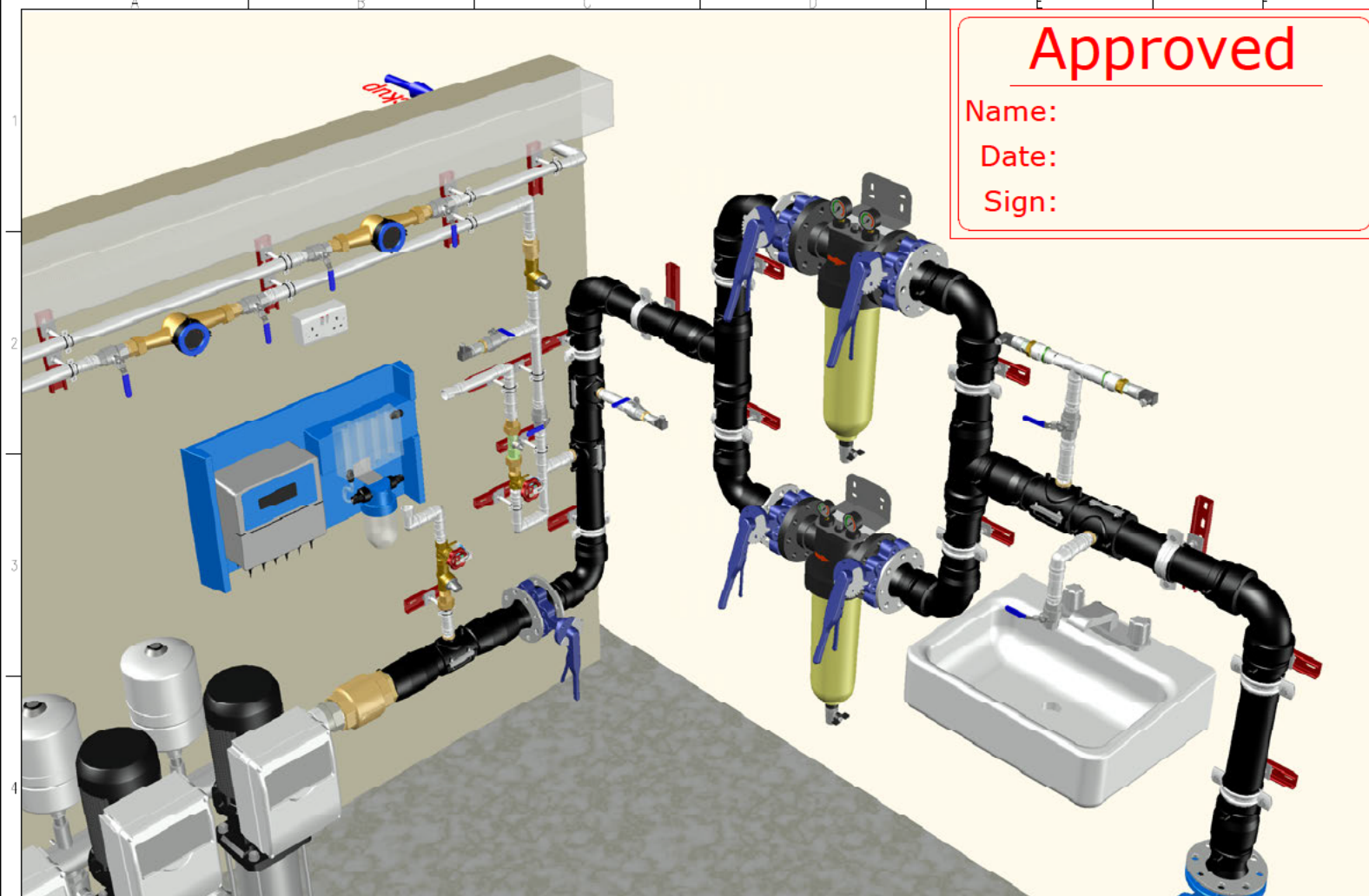


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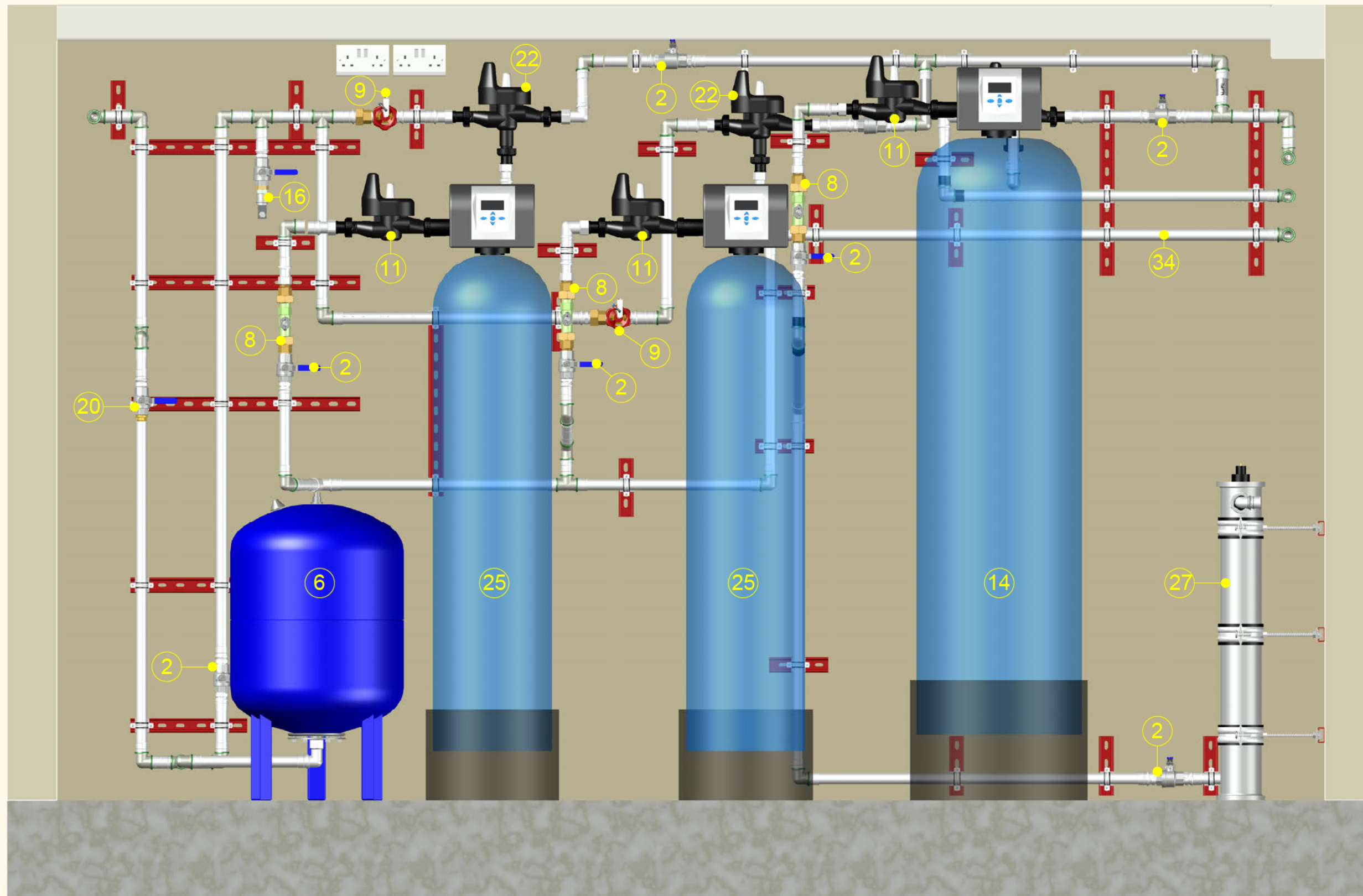
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Title: BH1422 - Model overview
Client: Inspired Villages
Date: 1/11/2024
Revision: Rev000 Sheet: 2 of 2

Drawn: Mr Adam Hardiman

NICHOLLS
BOREHOLES & GROUND SOURCE

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Name:

Date:

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Notes:

Title: BH1422 - Elevation 1

Client: Inspired Villages

Date: 25/11/2024

Revision: Rev000

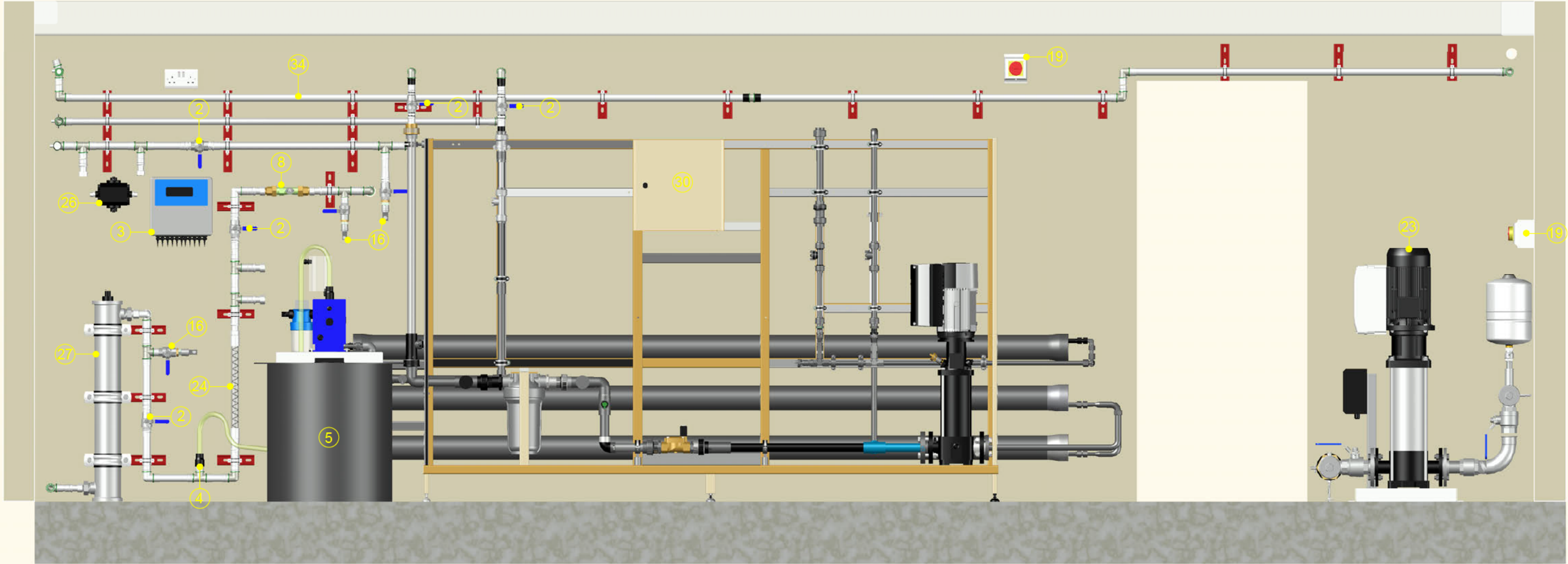
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1 of 4

Drawn: Mr Adam Hardiman

NICHOLLS
BOREHOLES & GROUND SOURCE

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Date:
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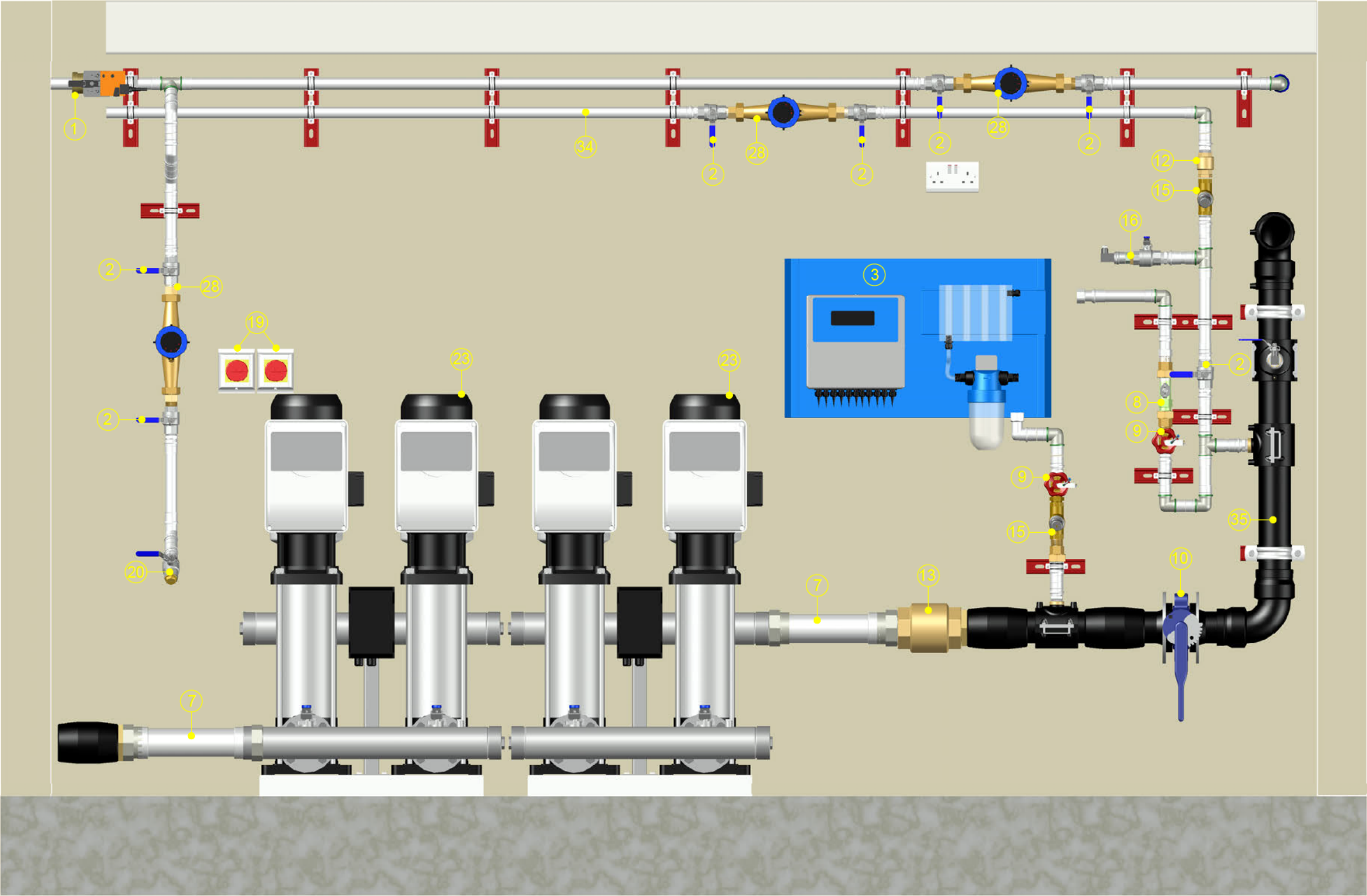
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Client:	Inspired Villages
Date:	25/11/2024
Revision:	Rev000
Sheet:	2 of 4

Drawn: Mr Adam Hardiman



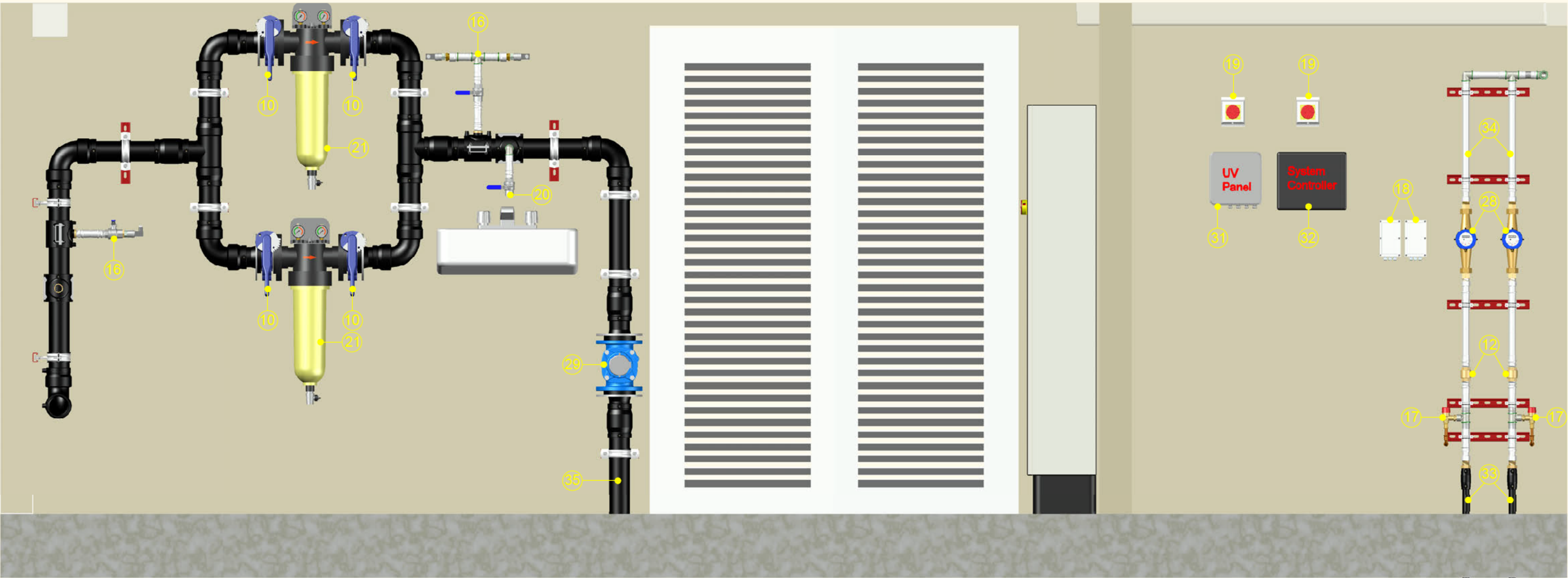
Indicative layout for design purposes only. Final position to be confirmed on site. Drawing is not to be scaled.



Approved

Name:
Date:
Sign





Approved

Name:
Date:
Sign

Notes:

Title:	BH1422 - Elevation 4		
Client:	Inspired Villages		
Date:	25/11/2024		
Revision:	Rev000	Sheet:	4 of 4

Drawn: Mr Adam Hardiman



Indicative layout for design purposes only. Final position to be confirmed on site. Drawing is not to be scaled.