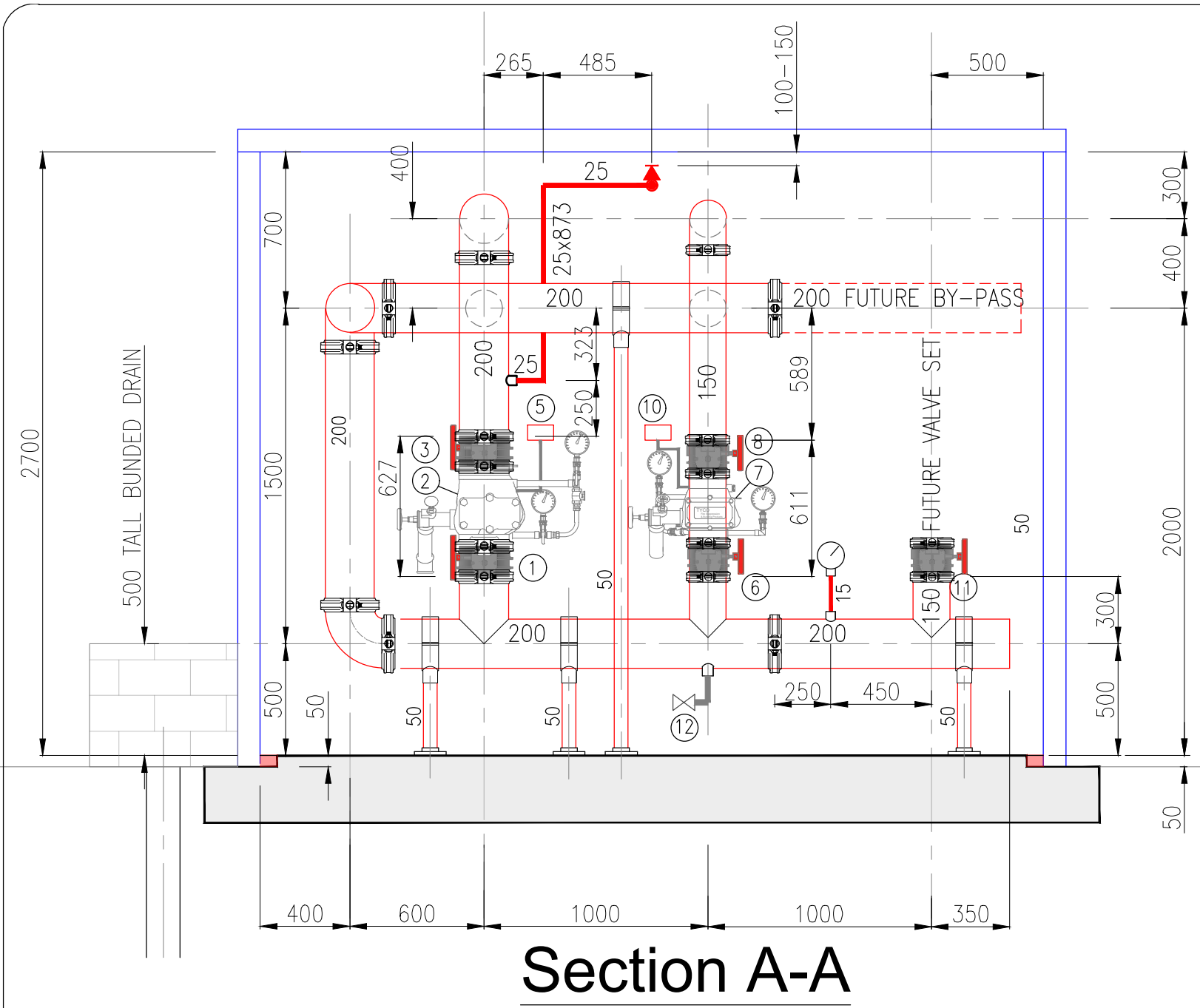
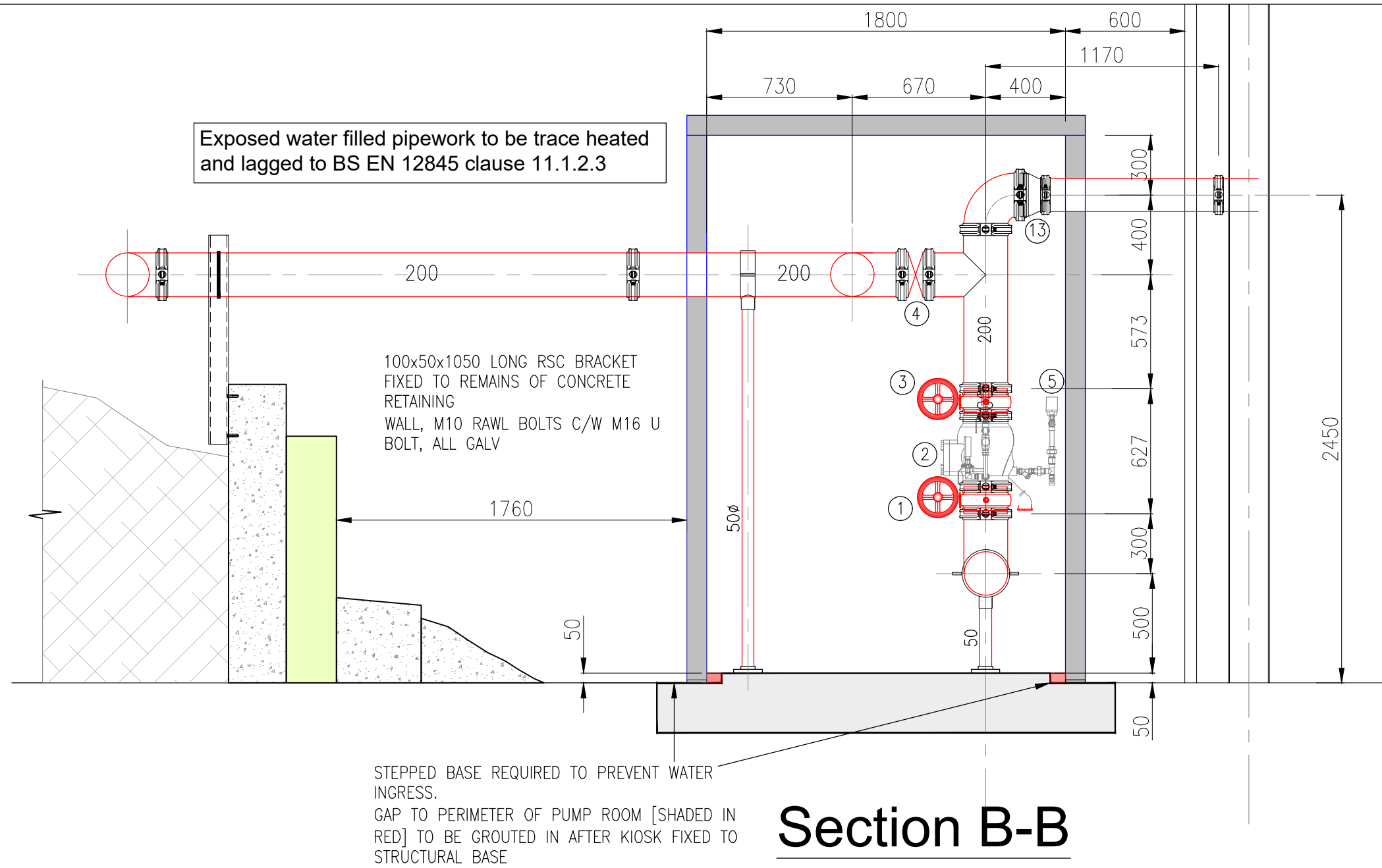
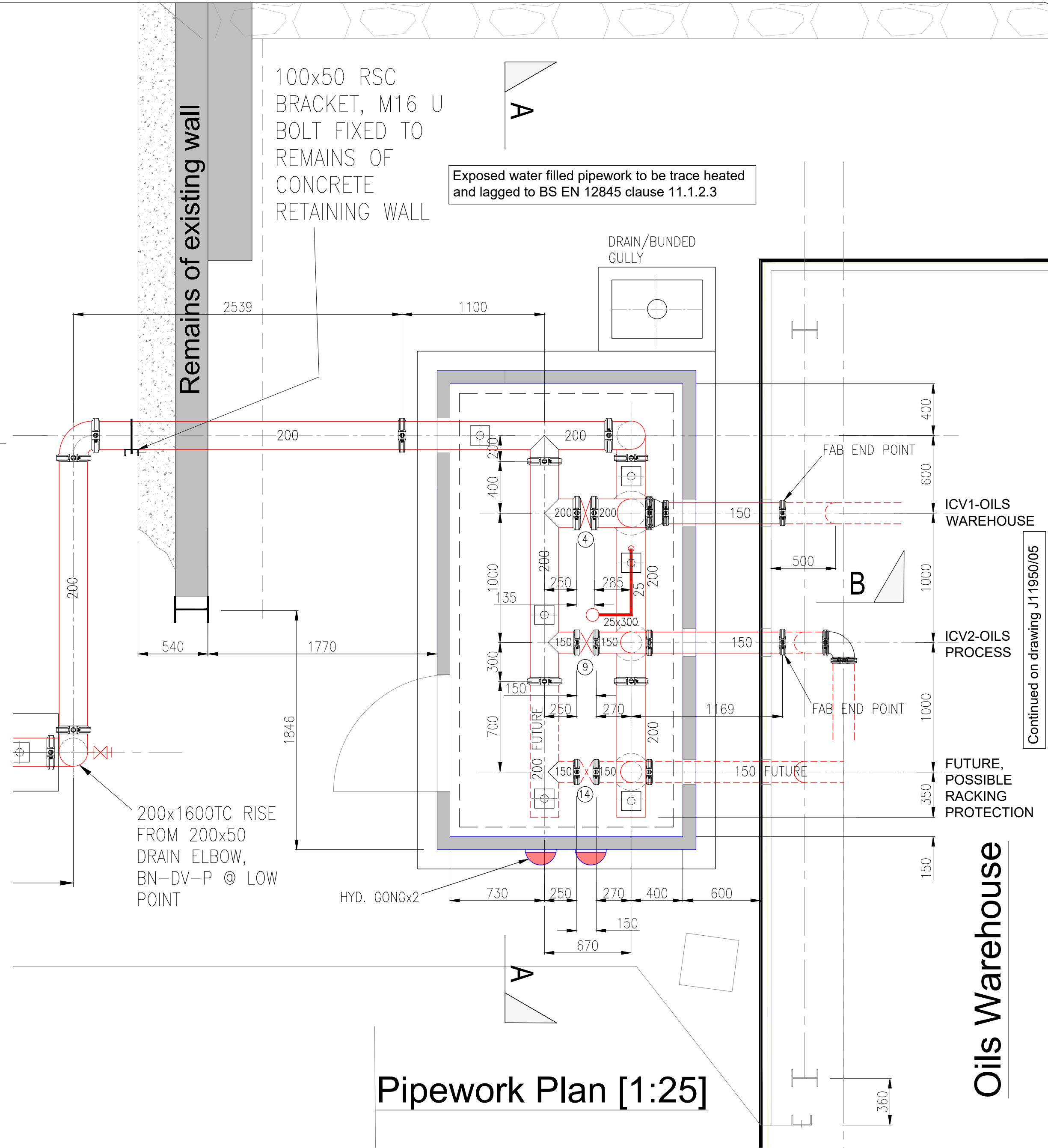




Section A-A

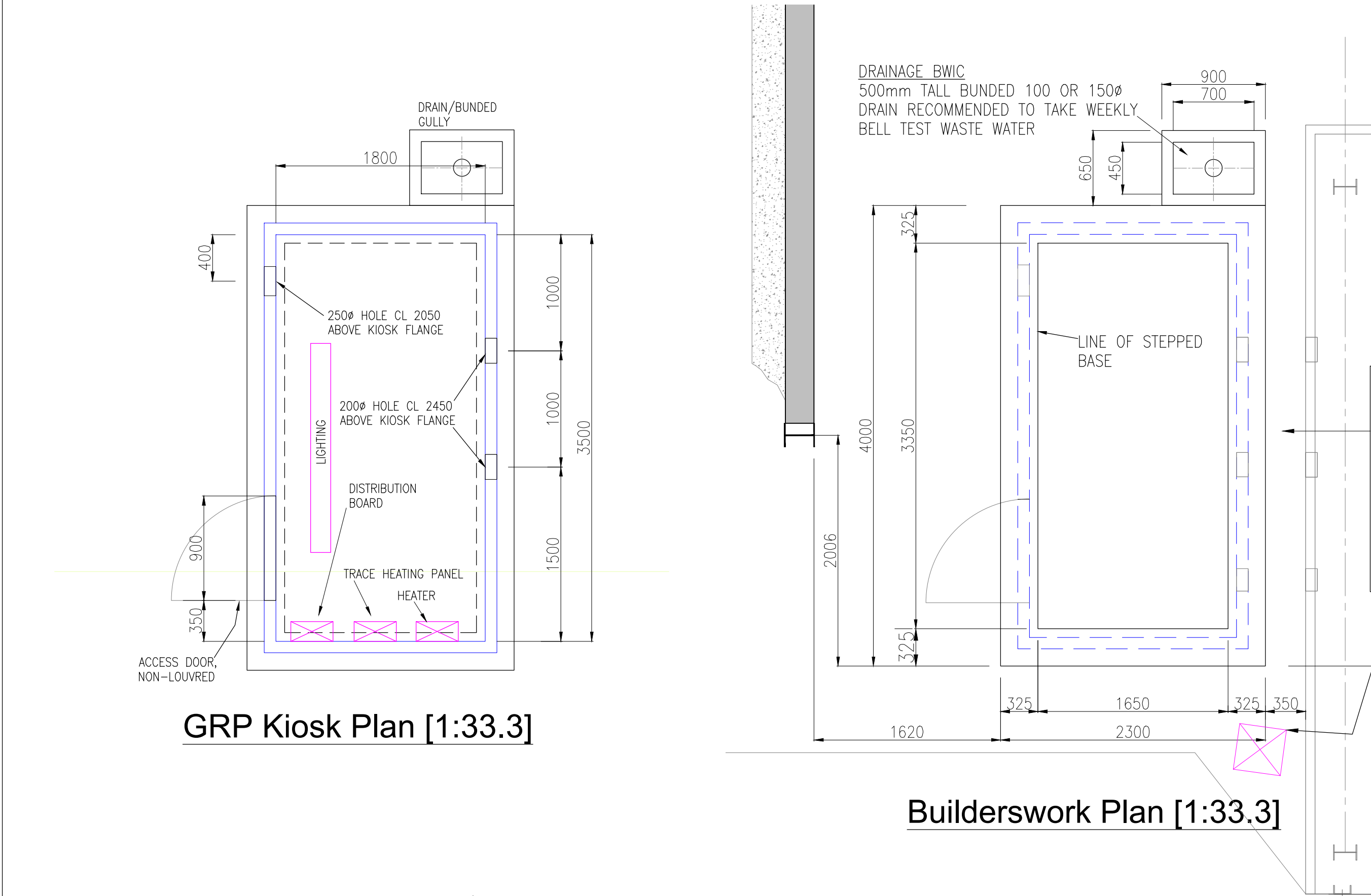


Section B-B



Pipework Plan [1:25]

Oils Warehouse



GRP Kiosk Plan [1:33.3]

Builderswork Plan [1:33.3]

Oils Warehouse

EQUIPMENT LEGEND

①	Installation number 1 main stop valve, Victaulic S705
②	Installation number 1 200mm alarm valve, Tyco AV1
③	Installation number 1 maintenance stop valve, Victaulic S705
④	Installation number 1 by-pass stop valve, Victaulic S705
⑤	Installation number 1 alarm line pressure switch
⑥	Installation number 2 main stop valve, Victaulic S705
⑦	Installation number 2 150mm alarm valve, Tyco AV1
⑧	Installation number 2 maintenance stop valve, Victaulic S705
⑨	Installation number 2 by-pass stop valve, Victaulic S705
⑩	Installation number 2 alarm line pressure switch
⑪	Installation number 3 (future) main stop valve, Victaulic S705
⑫	50mm drain valve / M&F elbow
⑬	200x150 grooved concentric reducer

- Notes
- 3kw fan heater to be provided to maintain temperature to 4°C by FVS electrical subcontractor
 - Lighting to be provided to 500 lux minimum by FVS electrical subcontractor
 - 240v 13 amp electrical supply required to distribution board by Tetrosyl electrician

LEGEND

- FVS-New Sprinkler Head - Installed on Rise or Drop
- FVS-New Sprinkler Head - Installed Upright
- FVS-New Sprinkler Head - Pendant Upright
- FVS-Riser / Drop
- FVS-Location of Valve Set
- FVS-New Sprinkler Pipe
- Existing Sprinkler Pipe
- FVS-Bracket Location

BLOCK PLAN

Important Note

This drawing is confidential and the copyright of FVS Limited. The contents are not to be used, or copied, for any purpose whatsoever, without the prior written consent of FVS Limited.

Pipework Specification

- Tube up to and including 150mm Bore to be mild steel BS EN 10255, medium quality.
- Tube 200mm bore to be API 5L, schedule 20
- Screwed pipe fittings to be BS EN 10242 black malleable iron, painted red oxide
- All welded fittings to conform to BS EN 10253 and flanged joints to conform to BS4505 Pt.1 NP16 Unless noted.
- Welding standards as per BS EN 12845 clause 17.1.3 & BS ISO 1461.
- Rolled grooved joints to be installed/supported in accordance with manufacturers instructions.
- Grooved mechanical fittings to be LPCB/FM approved.
- All pipework and fittings to be painted 1 full coat red oxide primer.
- All piping installed below ground to be Ductile Spun Iron Lined/Unlined to BS4772 Tyton/Bolted Gland/Flanged Joints or HDPE as noted on plan.

To the Client

- FVS Limited do not accept any responsibility for damage caused by frost. Clients should take adequate precautions against water in the valves, pumps, tanks and pipework from freezing during severe weather.
- Unless otherwise agreed, it is the responsibility of the client to carry out all civils, builders and electrical works on this contract.
- Where sprinkler pipework and heads are fitted into solid ceilings, we recommend a 600mm square hatch is provided adjacent each head for access at a later date. If not provided by the Client, FVS Limited do not accept any responsibility or costs for access holes being required at a later date for any reason.
- It is the clients responsibility to advise FVS Limited of any services clash within 7 days of drawing issue.
- All pipework to be earthed and bonded in accordance with the requirements IEC regulations by the client.
- Temperature rating of the sprinkler head should always be at least 30°C above ambient temperature. It is the clients responsibility to inform FVS Limited where the ambient temperature will exceed 38°C

To the Erector

- Alterations and additions should not be made to the system without first contacting the design office.
- All sprinklers and controls are to be installed upright with the yoke arms parallel with the pipe, unless otherwise stated.
- Sprinkler deflector plates must be parallel with the roof/ceiling.
- All dry pipework to be installed with a slope for drainage as follows:
 - Range pipework 25-50mm 4mm/metre
 - distribution pipework >65: 2mm/metre
- All dimensions shown are to the centre line of pipe.
- Pipework supports are to be installed in accordance with the LPC Rules.
- All arm pipes over 450mm long and riser/drops feeding single sprinklers over 600mm to be supported where possible.
- A minimum of 150mm clearance should be maintained between pipework supports and sprinkler heads (LPC) or 300mm (FM Global).
- Sprinkler deflectors shall be set out between 75-150mm below underside of ceiling or roof where possible and a maximum of 300mm from the ceiling/sloft where unavoidable for combustible ceilings and 450mm for non-combustible ceilings. If roof purins present, deflectors to be set out 25mm below underside of purlin. If in doubt, consult a competent design engineer.

DESIGN SCHEDULE		SPRINKLER SCHEDULE	
Design Criteria	LPC rules inc. BS EN 12845	Area Protected	Valve chamber
Occupancy	Valve chamber	Area (m2)	6m sq
Property Protection/Annex F	Property	No. of Sprinklers	1
Scope of Works	New sprinkler system	Type	SSU
Hazard Classification	OH3	Thermal Sensitivity	STD
Storage Configuration	NA	Orifice Size/K Factor	15 K80
Goods Category	NA	Temperature Rating	68°
Maximum Storage Height	NA	Manufacturer	Tyco
Clearance Below Spk Deflector	500mm	Reference/Part No.	TY-B[315]
Design Density of Discharge	5mm/min	BUILDING SCHEDULE	
Area of Operation	6m sq	Internal Walls	GRP
Hydraulic Design	FHC	External Walls	GRP
Highest Spk above 'C' Gauge	1.275m	Floors / Ceilings	Conc / GRP
Water Supplies	3 x half duty diesel pumps		
Pump Duty/Flow Result	7200 l/m @ 8.7 bars		
Tank Capacity	2x700m cubed		
Valve No., Size & Type	2 150 wet		

LPCB

Assessed to ISO 9001
Cert/LPCB ref:151

LPCB

LPS 1048 Cert/LPCB ref. ASC-031

FVS

Design Installation Service Testing

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Client: Tetrosyl Group Limited
Bridge Hall Works
Bury BL9 7NY

Title: New sprinkler valve chamber - Oils warehouse

Drawing No: J11950/03

Date: November 2021

Scale: 1:33.3, 1:25

Sheet Size: A1

Rev: C

Drawn By: M Lucas

Checked By: GF/AW

Order No: CAP31268 KB

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