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General Notes

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2. If received electronically it is the recipients responsibility to print to correct scale. Only written dimensions should be used.
3. This drawing should be read in conjunction with all other relevant drawings and specifications.
4. This drawing is not to be used for Construction/Installation purposes. It is a general arrangement Design Drawing and the Contractor shall produce their own Working Drawing for installation purposes.

For guidance only. Do not scale off this drawing

1:20 – 0 200mm 400mm 600mm 800mm 1000 1200 1400 1600 1800 2000
1:100– 0 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m
1:50 – 0 1m 2m 3m 4m 5m
1:5 – 0 100mm 200mm 300mm 400mm 500mm

Safety, Health & Environment Information

In addition to the hazards / risks normally associated with the types of work detailed on this drawing take note below. It is assumed that all works on this drawing will be carried out by a competent contractor, working, where appropriate, to an appropriate method statement.

Construction risks	Maintenance/Cleaning risks	Demolition/Adaption risks

DOMESTICS LEGEND

- EXISTING PIPEWORK
- PROPOSED CWS PIPEWORK
- IV (C+I) — ISOLATION VALVE
- NRV (C+I) — NONE RETURN VALVE
- RTA — RISE TO ABOVE
- RFB — RISE FROM BELOW

SMALL POWER LEGEND

- 50 x 50mm TRUNKING
- SWITCHED FUSED CONNECTION UNIT (L - LABEL DENOTES USE WHERE APPLICABLE)
- DB — DISTRIBUTION BOARD (THREE PHASE)

15mm CWS COPPER INSULATED TO BS 5422 AND FULLY LABELLED. RISE FROM LIGHTWELL BELOW TO SERVE BIB TAP. CONTRACTOR TO INSTALL BIB TAP AT 1200mm AFFL. BIP TAP TO BE AS PER ARCHITECTS DETAIL
TRACE HEATING TO BE INSTALLED TO ALL EXTERNAL PIPEWORK AND CONNECTED BACK TO THE LOCAL BMS PANEL WITHIN BASEMENT PLANTROOM

15mm CWS TO RUN AT LOW LEVEL TO BIB TAP

PIPEWORK PENETRATION TO EXTERNAL LIGHTWELL. LOWER HALF WINDOW TO BE WEATHER PROOF BOARDED.



PROPOSED GROUND FLOOR LAYOUT

APPROXIMATE LOCATION OF NEW STAND PIPE INSTALLED ON NEW CONCRETE BASE

EXAMPLE EXTERNAL LOCKABLE BIB-TAP UPSTAND TO BE PAINTED BLACK



NEW EXTERNAL PIPEWORK TO BE BURIED AS SHOWN AND RISE VIA THE BOTTOM OF THE UPSTAND.



SURFACE MOUNTED TO CEILING.
16mm CWS PIPEWORK TO PENETRATE THROUGH TOP LEFT WINDOW.

15mm CWS COPPER INSULATED TO BS 5422 AND FULLY LABELLED TO PENETRATE LIGHTWELL WINDOW AT A H/L CORNER AND RISE UP THROUGH LIGHTWELL EXTERNALLY. TRACE HEATING TO BE INSTALLED TO ALL EXTERNAL PIPEWORK, CONNECTED BACK TO THE LOCAL BMS PANEL WITHIN BASEMENT PLANT ROOM.

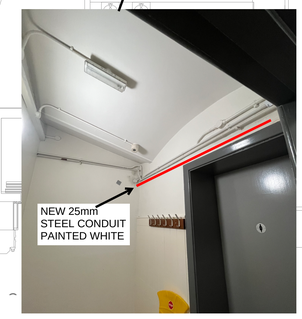
H/L 15mm CWS TO TAP OFF EXISTING MAINS COLD WATER PIPEWORK WITHIN FEMALE WC.

H/L SURFACE MOUNTED SWITCHED FUSED SPUR TO BE WIRED FROM NEW DB 01/0123/2 INSTALLED AS PART OF THE OLD QUAD LANDSCAPE WORKS FOR TRACE HEATING. NEW 6A/I/B 4mm RADIAL CIRCUIT 16A MCB IN 25mm PVC CONDUIT. UTILISE SPARE WAY 01/0123/200L1

EXISTING H/L PIPEWORK FEED SERVING WC AND SHOWER ROOM

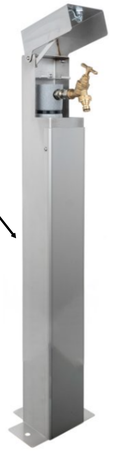
NEW H/L SURFACE MOUNTED 25mm CONDUIT TO ENTER CORRIDOR AND SERVE NEW SWITCHED FUSED SPUR WITHIN FEMALE WC







BIB TAP STANDPIPE BY ARROW VALVE. (SPHUD15X20) TO BE INSTALLED AS PER MANUFACTURERS DETAILS (ATTACHED ON PDF).



PROPOSED LOWER GROUND FLOOR LAYOUT

Rev	Description	By	Ckd	Date
C01	Contract Issue. Cloud Indicates Changes From P0 Issue	NT	BK	16.02.23

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Client: University of Manchester

Project: The Old Quadrangle

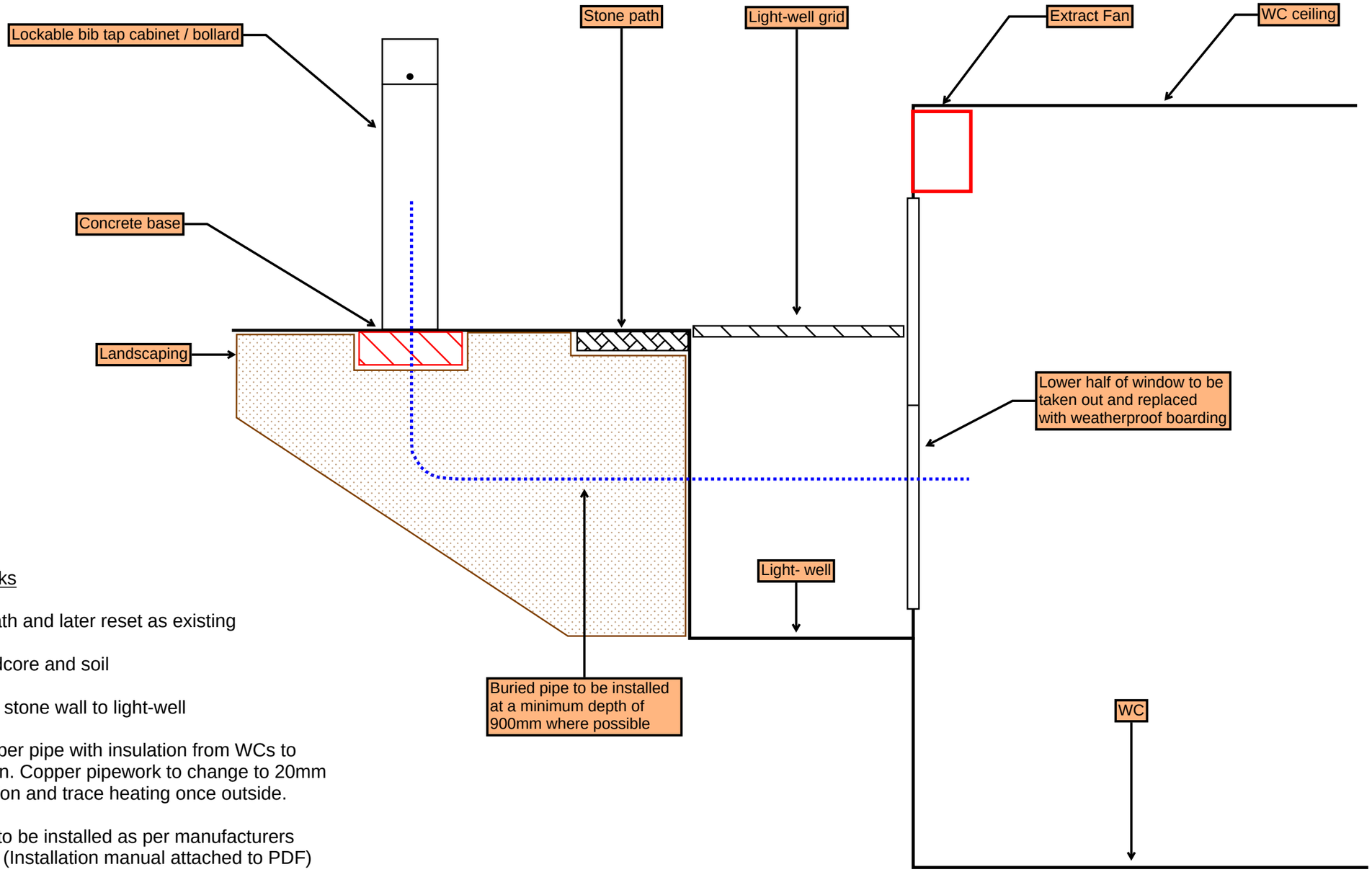
Title: Proposed Domestic Services Layout

Project Stage	Scale	Date Created
Construction Issue	1:50 @ A0	Sept '23
Project Lead	**Designer**	**Information Manager**
SO	NT	TS

Document Number: M14420-RPS-ZZ-ZZ-DR-M-5300
Project Code - Originator - Breakdown - Level - Type - Discipline - Unique No.

RPS Project Number: M14420 | Status Code: A5 | Revision: C01

S:\JOBS\14420 - Univ of Manc Old Quadrangle\4 - BIM\M2 Auto\ACR\M14420-RPS-ZZ-ZZ-DR-M-5300.dwg



Bib Tap Section Detail

Description of Works

- Remove stone path and later reset as existing

- Remove any hardcore and soil

- Core drill through stone wall to light-well

- Install 15mm copper pipe with insulation from WCs to external penetration. Copper pipework to change to 20mm MDPE with insulation and trace heating once outside.

- Bib tap up-stand to be installed as per manufacturers recommendations. (Installation manual attached to PDF)

- 20mm MDPE pipework to connect to bib tap.

- Hardcore and soil to be backfilled.

- Stone path to be reset as existing.

Arrow Valves Ltd

Tel **01442 823 123**
Fax 01442 823 234

www.arrowvalves.co.uk

Installation Instructions / Operating & Maintenance Manual Pillar Standpipe - SPHUD



FOREWORD

The Pillar Standpipe has a Double Check Valve assembly to prevent backflow. This is suitable for Fluid Category 3. Contact us if Fluid Category 4 or 5 protection is necessary.

The Standpipe is normally supplied with a compression fitting for MDPE pipe. Other fittings are available.

SUPPORTING LITERATURE

SPHUD Datasheet

SECTION	ITEM
1.0	MOUNTING
2.0	SERVICING VALVE
3.0	PIPE
4.0	PILE
5.0	INSTALLATION
6.0	OPERATION
7.0	FROST PROTECTION
8.0	SPARES

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1.0 MOUNTING

1.1 The Standpipe can be bolted directly to a flat concrete surface with three M12 expansion bolts (not supplied). Alternatively, the unit can be bolted to the special Pile (M12 stainless fasteners supplied) – code SPPILE.

2.0 SERVICING VALVE

2.1 A servicing valve should be provided to isolate the pipe leading to the Standpipe. This allows the Standpipe to be isolated during the winter and potentially freezing conditions.

3.0 PIPE

3.1 The MDPE pipe should be laid in a 750 mm deep trench (Regulation G7.7). The pipe can then be curved according to the minimum radius.

MDPE Pipe Size	Minimum Radius
20 mm	400
25 mm	500

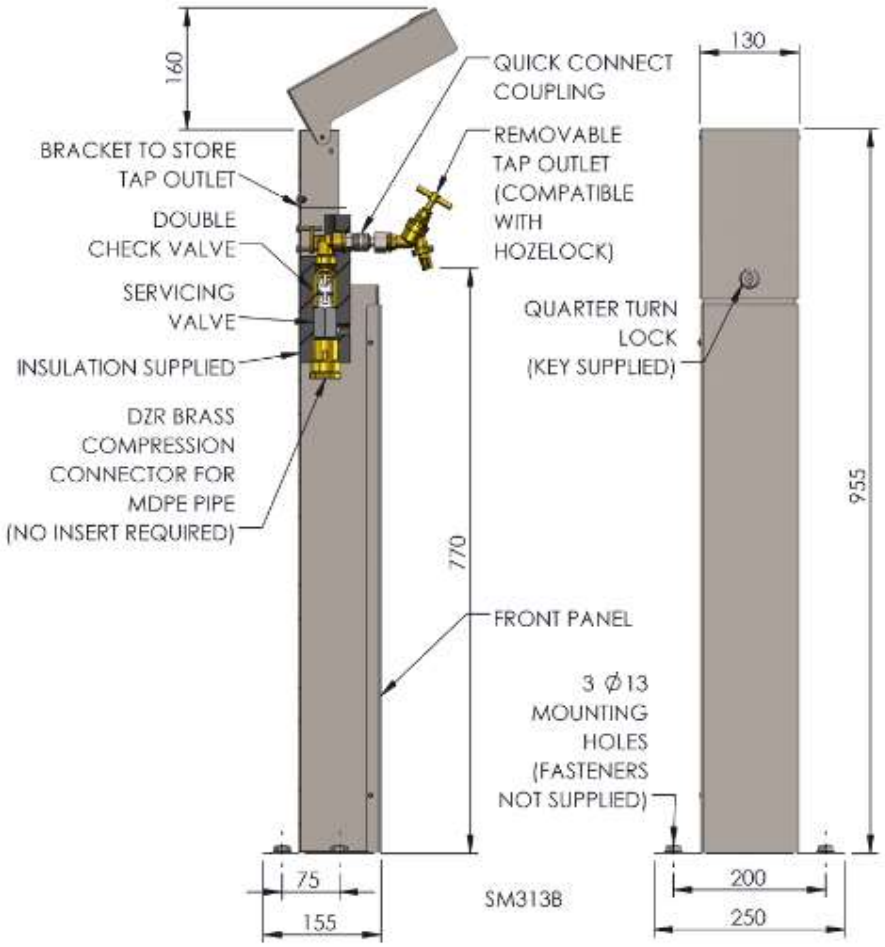
3.2 In contaminated ground (brown field sites), the water company normally requires barrier MDPE or copper pipe to be used.

3.3 Insulate the pipe and fittings above the depth of 750 mm. Some closed cell foam insulation is provided.

4.0 PILE INSTALLATION

4.1 Install the Pile in the trench to a depth where the flanges are 30 mm above the surface.

4.2 For aesthetic reasons in soft ground, the flanges may be buried up to 50 mm beneath the soil surface.



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5.0 INSTALLATION

5.1 Remove the four M5x10 button head screws from the Front Panel. Detach the Font Panel from the Standpipe Body.
5.2 Connect the supply pipe to the Standpipe. It is generally easier to make the MDPE connection before bolting the Standpipe down. Push the pipe in fully and tighten until nut is fully into the fitting. No pipe insert is required.
5.3 Bolt the Standpipe down to the surface.
5.4 Insulate all exposed parts of the pipe and fittings with waterproof pipe insulation.
5.5 Ensure the servicing valve in the Standpipe is open (slot vertical).
5.6 Reattach the Front Panel to the Standpipe Body and secure with the four M5x10 button head screws.
5.7 Appropriate backflow prevention (contact Arrow Valves for more information) must be provided. The Pillar Standpipe features a Double Check Valve and is therefore suitable for Fluid Category 3 applications. Installations in or close to a bin store for example are Fluid Category 5 and must be supplied from a Break Tank with AB air gap – contact Arrow Valves.

6.0 OPERATION

6.1 Inserting the Tap Outlet into the Tap Body automatically opens the flow of water with one simple action.
6.2 Once the tap outlet has been inserted, it is free to rotate to find the optimum position for the desired use.
6.3 Connect hose with brass “Inter-Lock” or plastic “Hozelock” connector. Note – brass type requires the release ring to be pulled back when pushing the connector in.
6.4 To open the tap, rotate the handle anti-clockwise.
6.5 When not in use, the Tap Outlet can be removed and stored on the shelf inside the Standpipe Body. Push the Tap Body towards the back of the Standpipe to release the Tap Outlet fitting.
6.6 When not in use, keep the lid closed and locked to prevent and possible waste or misuse.

7.0 FROST PROTECTION

7.1 The Standpipe is insulated, which provides a reasonable degree of protection. For potentially prolonged freezing periods – isolate the supply at source and let the Tap Outlet drain fully before removing.
7.2 Ideally the Standpipe should be isolated at source - e.g. at a servicing valve, which is frequently inside a building. If this is not possible, isolate using the Standpipe’s internal servicing. Rotate the valve ¼ turn clockwise with a screwdriver.
7.3 For use in freezing conditions – the Standpipe should be appropriately trace heated.

8.0 SPARES

8.1 Please contact Arrow Valves for any spares required on 01442 823123 or online at www.arrowvalves.co.uk.

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