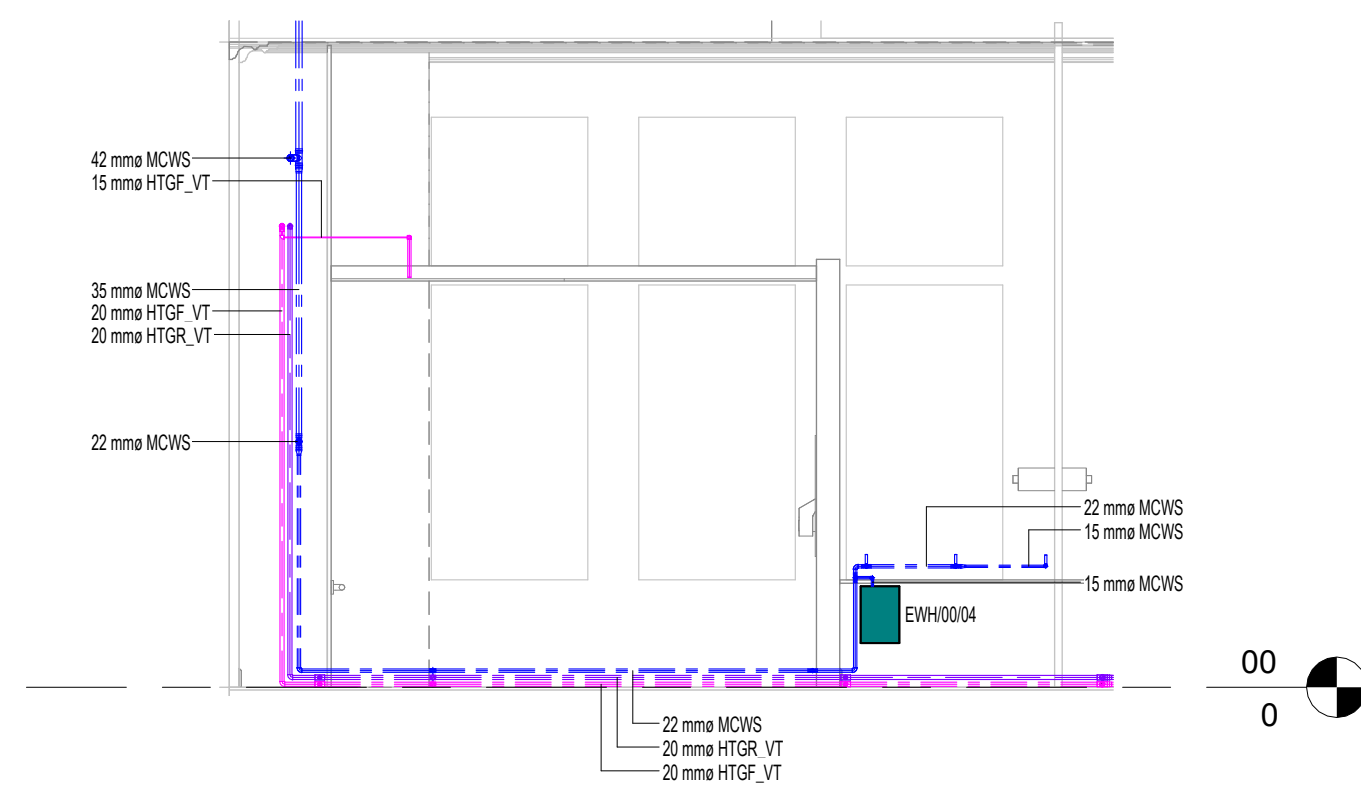
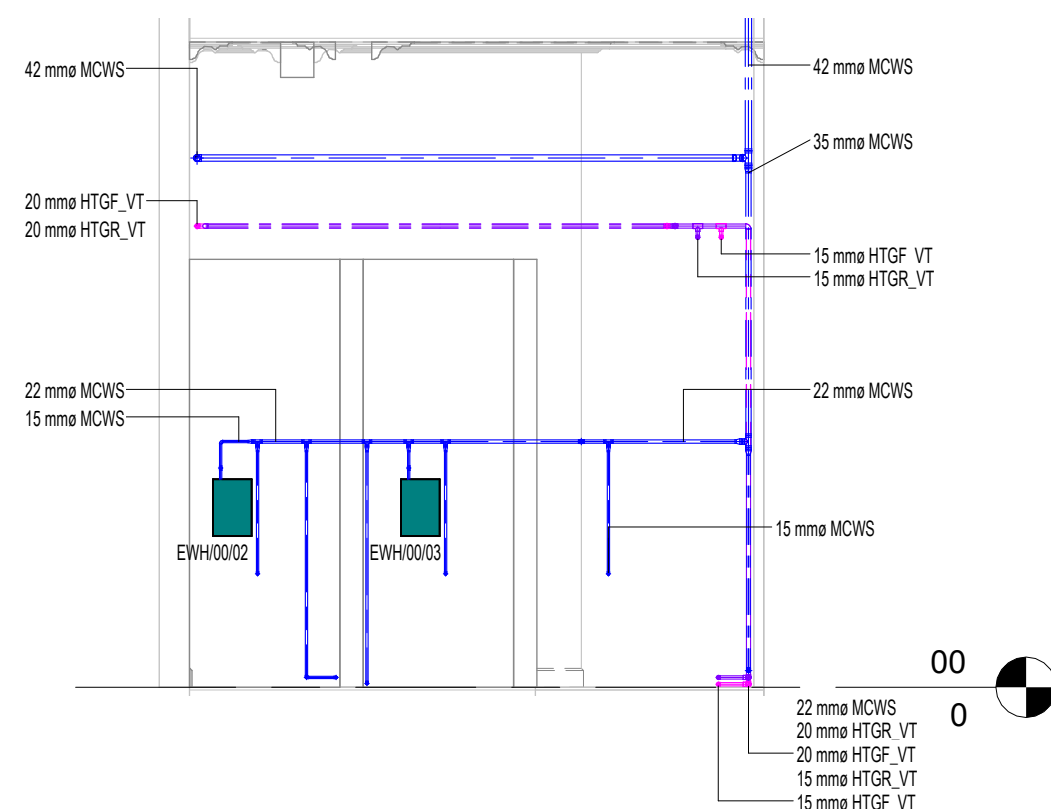
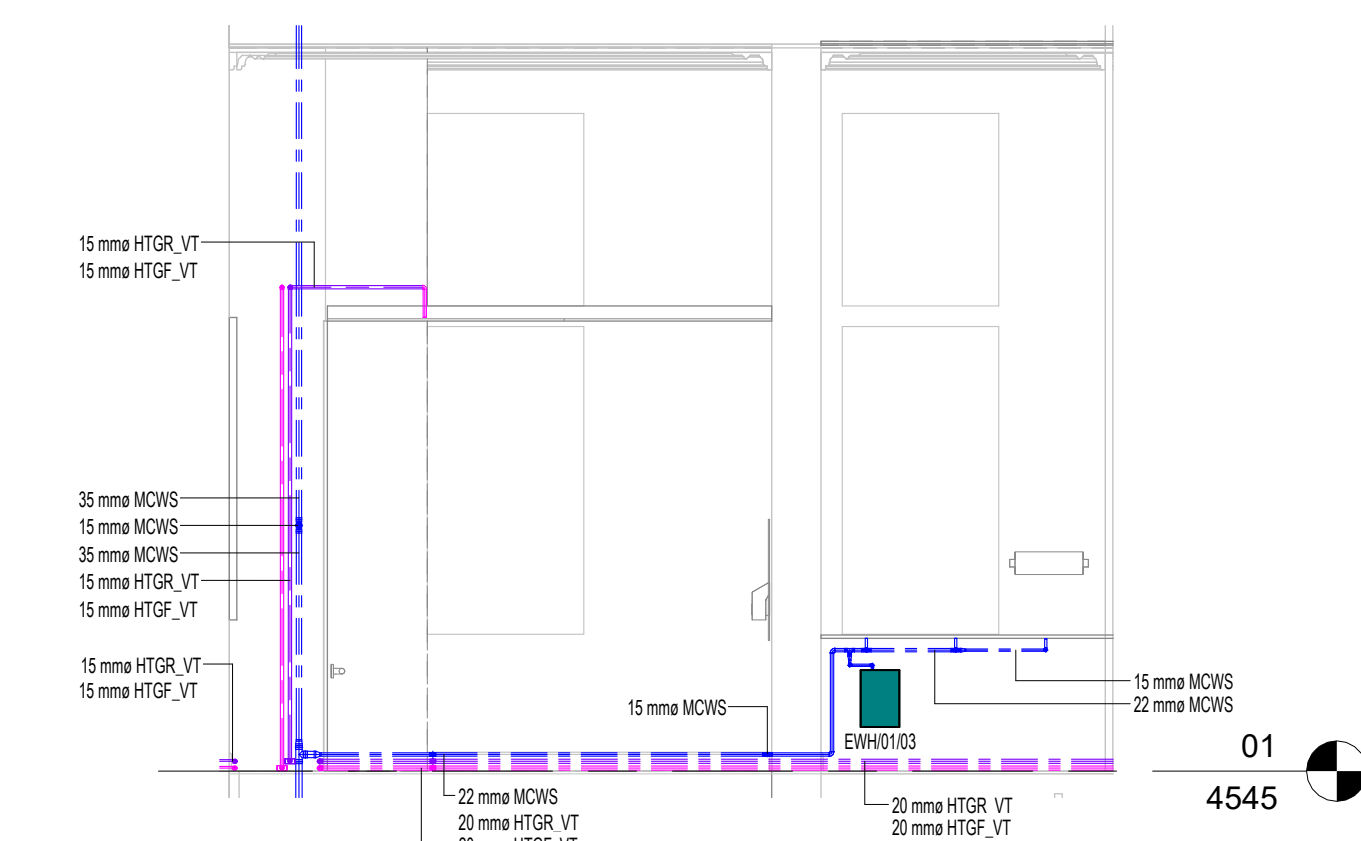




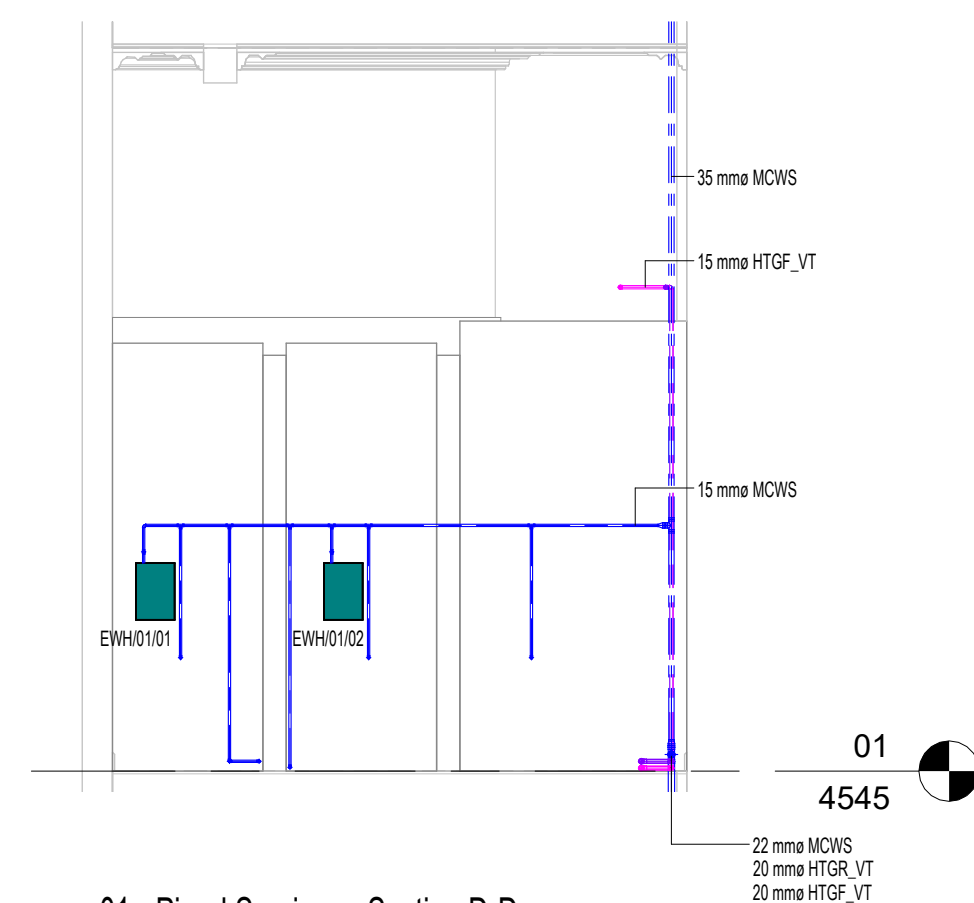
A-A 00 - Piped Services - Section A-A
1:50



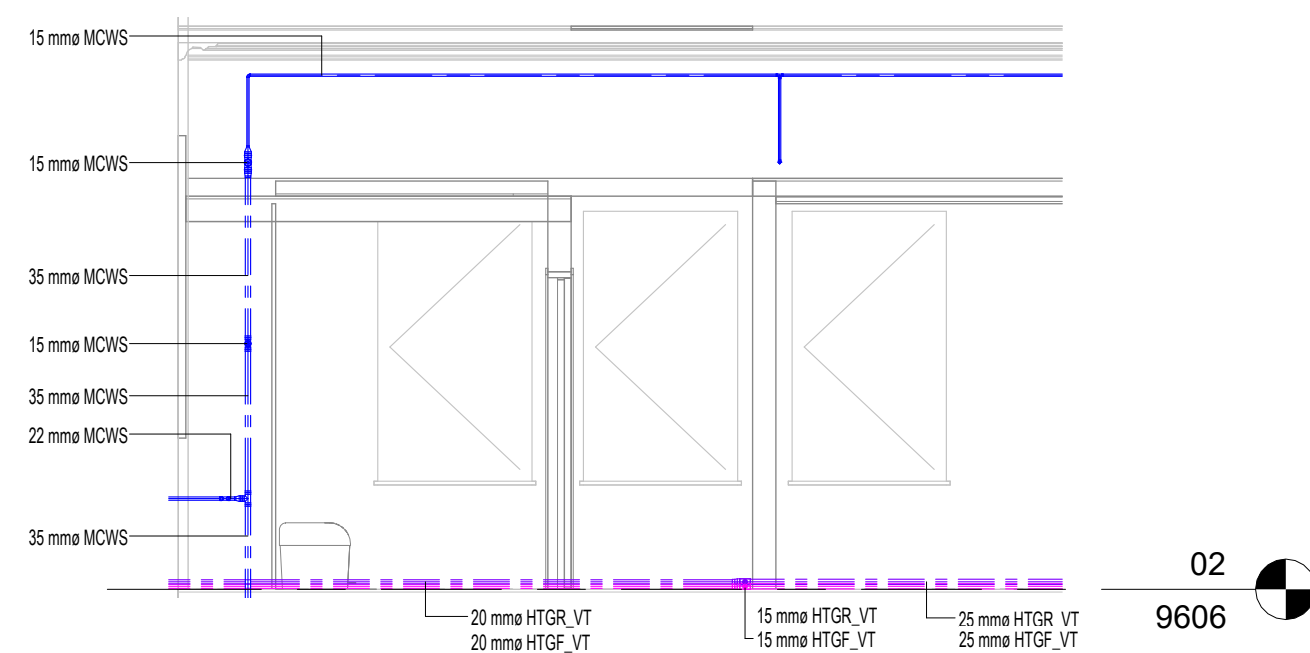
00 - Piped Services - Section B-B
1 : 50



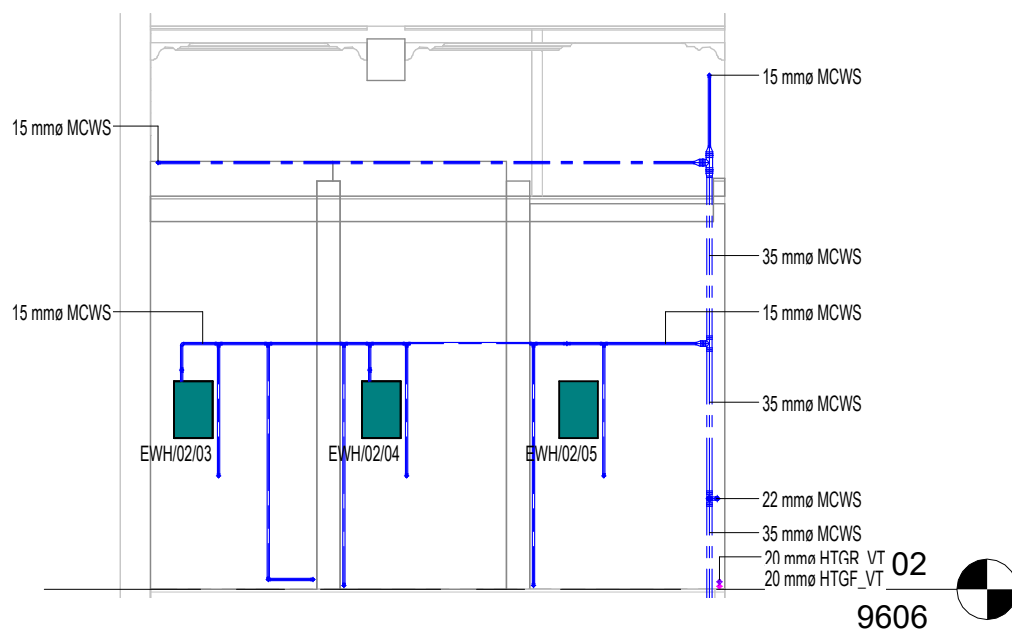
01 - Piped Services - Section C-C
1 : 50



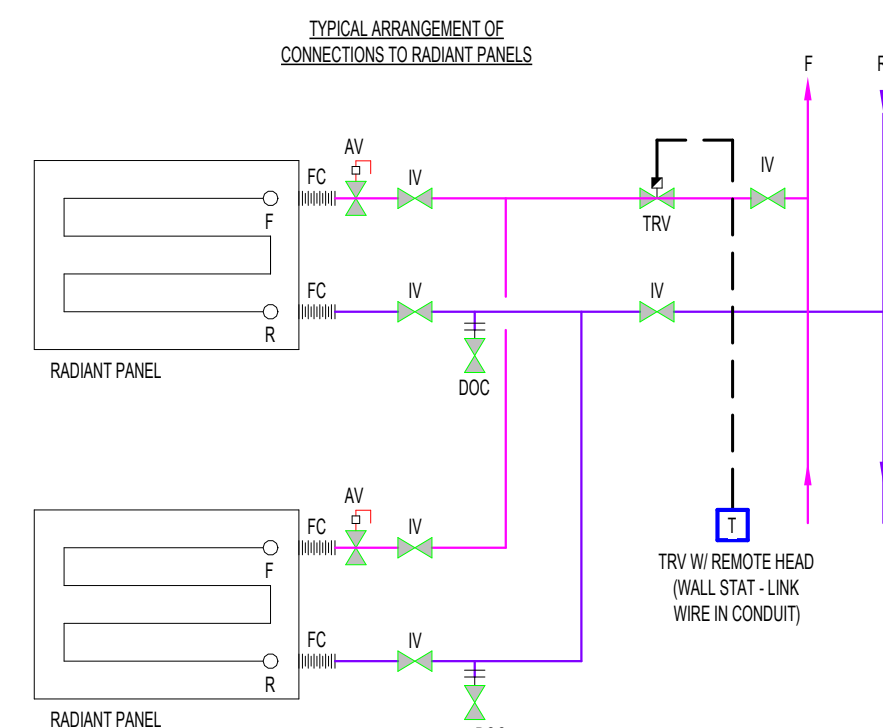
D-D 01 - Piped Services - Section D-D
1 : 50



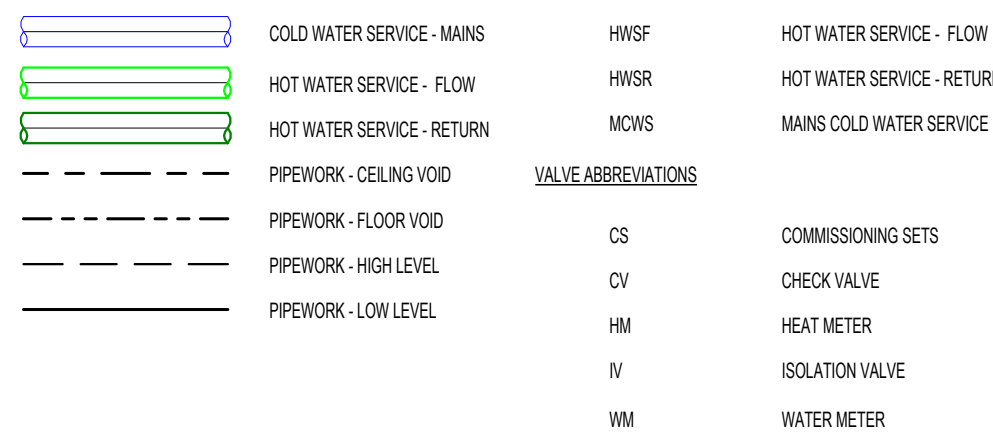
E-E 02 - Piped Services - Section E-E
1:50



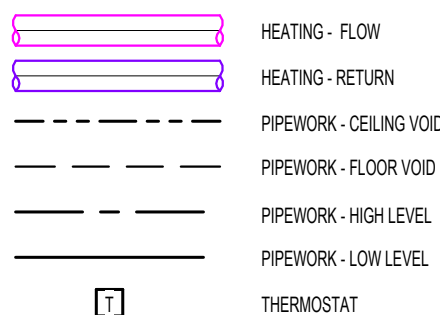
F-F 02 - Piped Services - Section F-F
1 : 50



LEGEND:



LEGEND:



NOTES:
THIS IS A DESIGN DRAWING NOT AN INSTALLATION DRAWING.
DIMENSIONS SHOULD NOT BE SCALED.
SITE DIMENSIONS TO BE CHECKED BEFORE PRODUCTION OF CRITICAL
MANUFACTURING DRAWINGS.
THE DRAWING IS COPYRIGHT AND NO PART MAY BE REPRODUCED
WITHOUT WRITTEN CONSENT.

DOMESTICS NOTES

1. ALL CONCEALED PIPEWORK TO BE INSULATED
2. ALL HOT AND COLD TERMINAL BRANCHES TO BE 15mm AND SOLDERED CONNECTIONS UNLESS OTHERWISE STATED
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PARTICULAR PROJECT SPECIFICATION AND ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS
4. AWP'S TO BE INSTALLED TO ALL HIGH POINTS
5. DCS TO BE INSTALLED TO ALL LOW POINTS
6. ALL FLOW MEASUREMENT DEVICES SHALL BE INSTALLED AT LEAST 10 METRES UPSTREAM AND 10 METRES DOWNSTREAM OF ANY FITTINGS
7. PROVIDE TERMINAL BRANCH ISOLATION ON ALL HOT & COLD WATER OUTLETS
8. COLD WATER BELOW 20°C AT SERVING THE TAP FOR AT LEAST 2 MINUTES
9. HOT WATER ABOVE 50°C AT SERVING THE TAP FOR AT LEAST 1 MINUTE
10. ALL HOT WATER OUTLETS SERVING WASH-HAND BASINS TO BE BLENDING TO 43°C MAXIMUM
11. GWS PIPEWORK TO BE INSTALLED IN COPPER
12. HEATING PIPEWORK TO BE INSTALLED IN HEAVY GRADE MILD STEEL
13. EXPOSED PIPEWORK WITHIN THE BUILDING TO BE UNINSULATED AND PAINTED TO ARCHITECTS PREFERENCE (RAL 9010)

HEATING & COOLING NOTES

1. FINAL CONNECTIONS TO BE MADE TO SUIT UP TO DATE ARCHITECTS LAYOUT
2. A/V'S TO BE INSTALLED TO ALL HIGH POINTS
3. DCS TO BE INSTALLED TO ALL LOW POINTS
4. ALL FLOW MEASUREMENT DEVICES WILL BE INSTALLED AT LEAST 10 DIAMETERS UPSTREAM AND 5 DIAMETERS DOWNSTREAM OF ANY FITTINGS.
5. I/V's AND C/Ss TO BE INSTALLED ON MAIN BRANCHES.
6. ALL HEATING FLOW AND RETURN PIPEWORK TO BE 15mm UNLESS OTHERWISE STATED
7. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PARTICULAR PROJECT STANDARD SPECIFICATION AND ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS
8. THE CONTRACTOR IS FOR COSTING PURPOSE ONLY INSTALLATION DRAWINGS TO BE PROVIDED BY THE MECHANICAL CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATION
9. THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL SERVICES
10. ALL PIPEWORK WITH CEILING VOID/FLOOR VOID/RISERS TO BE THERMAL INSULATED IN ACCORDANCE WITH THE SPECIFICATION
11. FLUSHING SPIGOTS VALVES SHALL BE INSTALLED AS BRIA APPLICATION GUIDE 11B
12. THE MECHANICAL CONTRACTOR SHALL ALLOW FOR EXPANSION ON ALL PIPEWORK BY INCLUDING FOR BELLOW/EXPANSION LOOPS AND ANCHOR POINTS
13. ALL TAIL CONNECTIONS TO BE HARD PIPES
14. HEATING PIPEWORK TO BE PAINTED AS PER ARCHITECTS DETAILS RAL 9010 WITH TRADITIONAL, SADDLED BRACKETS OR RING BRACKETS
15. ALL PIPEWORK PASSING THROUGH FIRE BARRIERS & WALLS TO PASS THROUGH FIRE SLEEVES. ALL PIPEWORK PASSING THROUGH WALLS, FLOORS, STRUCTURE SHALL BE SLEEVED
16. ALLOW A DOUBLE PIPE SET WHEREVER PIPES PASS THROUGH WALLS, CEILINGS OR FLOORS TO ALLOW FOR POSSIBLE STRUCTURAL OBSTRUCTIONS
17. DRAIN COCKS TO BE INSTALLED AT LOW POINTS & AIR VENTS AT ALL HIGH POINTS
18. CONTRACTOR SHALL ALLOW FOR ALL ADDITIONAL BENDS & FITTINGS NECESSARY TO AVOID OTHER SERVICES ETC
19. ALLOWANCE TO BE MADE FOR DRILLING HOLES THROUGH WALLS FOR THE INSTALLATION OF NEW PIPEWORK AND MAKING GOOD ON COMPLETION
20. ALL EXPOSED HEATING PIPEWORK TO REMAIN UNINSULATED

Rev C02	STAGE 4 ISSUE - MCC COMMENTS INCORPORATED			
By:	JD	Chkd:	JFH	Date: 06.12.24 App: JCH
Rev C01	STAGE 4 CONTRACT ISSUE			
By:	JN	Chkd:	JFH	Date: 16.08.24 App: JCH

Status	Description	Stage
A4	STAGE 4A COMPLETED	4

Client

MANCHESTER
1824

The University of Manchester

Project	UNIVERSITY OF MANCHESTER RUTHERFORD BUILDING
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Drawing

MECHANICAL SERVICES
PIPED SERVICES
SECTIONS
GENERAL ARRANGEMENT LAYOUT



CAD21 LTD
BUILDING
SERVICES
& ENERGY
CONSULTING ENGINEERS

NEWCASTLE ■ TEESSIDE ■ YORKSHIRE ■ NORTH WEST

Drawing Number	Revision
UOMRB-CAD-XX-XX-DR-M-56005	C02

Scale	Size
As indicated	A1

Drawing Origins :
RBUM-IBI-XX-XX-M3-A-000002 Rev 241108
