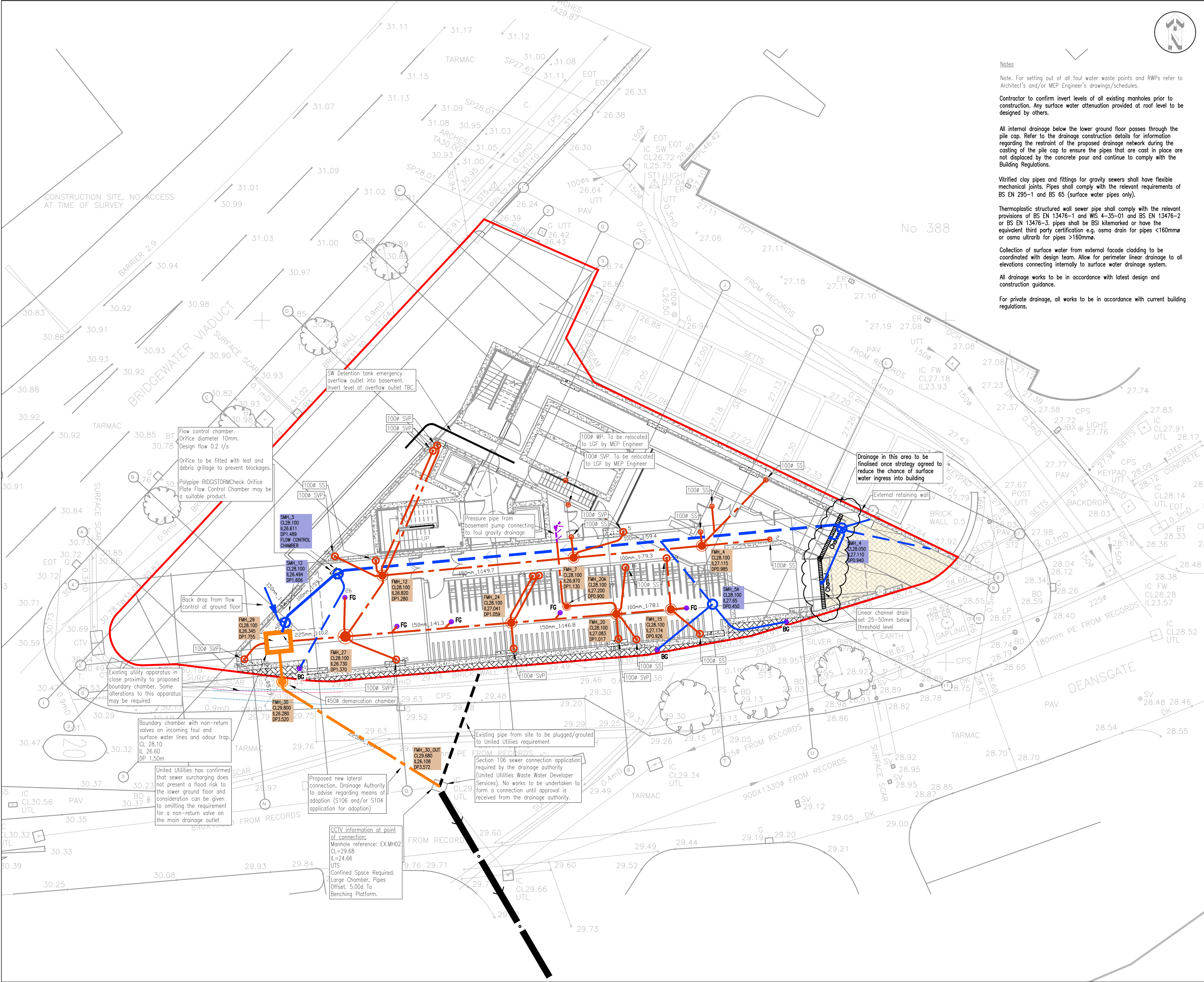




Notes

Note. For setting out of all foul water waste points and RWP's refer to Architect's and/or MEP Engineer's drawings/schedules.

Contractor to confirm invert levels of all existing manholes prior to construction. Any surface water attenuation provided at roof level to be designed by others.

All internal drainage below the lower ground floor passes through the pile cap. Refer to the drainage construction details for information regarding the restraint of the proposed drainage network during the casting of the pile cap to ensure the pipes that are cast in place are not displaced by the concrete pour and continue to comply with the Building Regulations.

Vitrified clay pipes and fittings for gravity sewers shall have flexible mechanical joints. Pipes shall comply with the relevant requirements of BS EN 295-1 and BS 65 (surface water pipes only).

Thermoplastic structured wall sewer pipe shall comply with the relevant provisions of BS EN 13476-1 and WIS 4-35-01 and BS EN 13476-2 or BS EN 13476-3. pipes shall be BSI kitemarked or have the equivalent third party certification e.g. osma drain for pipes <160mmø or osma ultrarb for pipes >160mmø.

Collection of surface water from external facade cladding to be coordinated with design team. Allow for perimeter linear drainage to all elevations connecting internally to surface water drainage system.

All drainage works to be in accordance with latest design and construction guidance.

For private drainage, all works to be in accordance with current building regulations.

NOTES

GENERAL

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS RELATE TO ORDNANCE DATUM UNLESS NOTED OTHERWISE.
3. DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS ONLY.
4. ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE ENGINEER.
5. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, SUBCONTRACTORS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.
6. THIS DRAWING IS COPYRIGHT © PROPERTY OF SHEAR DESIGN LIMITED.

KEY

Existing foul sewer. For further information refer to the drainage strategy document 20047-D100 appendix C and to drawing 20047-105 Existing Drainage Layout.

Threshold channel with minimum B125 cover loading. For style refer to Architect.

Internal surface water drains. Refer to plan for pipe sizes and gradients.

Proposed surface water inspection chamber.

Formpave fin drain outlet feature incorporating connectors and top hat seal through membrane

Formpave Aquaflood permeable block paving. Minimum 480mm thick with 80mm block pavers or similar approved

Internal foul drains. Refer to plan for pipe size and gradients.

Proposed 450ø FW inspection chamber.

Adoptable foul lateral drains. Refer to plan for pipe size and gradient

Pressure pipe connection from pump to gravity drainage

Proposed demarcation chamber

100mm drop
150mm drop

All with roddable access above ground. Refer to Architect and MEP Engineer for confirmation of above ground pipe diameters.

Rain Water Pipe preliminary position.

FG Trapped internal foul floor gully (roddable) with non-return valve

BC Trapped external SW bottle gully (roddable)

FMH Chamber reference (foul water)
CL Cover Level
IL Invert Level
DP Depth

SMH Chamber reference (surface water)
CL Cover Level
IL Invert Level
DP Depth

RIBA STAGE 4

E	13.06.23	Updated to suit revised architectural layouts and MEP Engineering plans.	TU	BH
D	04.11.22	Updated to suit MEP Engineer's current LGF drainage plan. Plant room pumping chamber added.	TU	BH
C	31.08.22	Notes added in relation to non-return valves protecting lower parts of building and drainage from sewer surcharging and flooding.	TU	TU
B	03.08.22	Stage 3 Tender	TU/EB	TS
A	18.07.22	Drawing rescaled to 1:100 at A1 at tender status	TU	TU/TS
REV	DATE	DESCRIPTION	BY	CHK

CLIENT: FUSION MANCHESTER DEVCO LTD

PROJECT: STUDENT ACCOMMODATION
DEANSGATE SOUTH, MANCHESTER

TITLE: DRAINAGE LAYOUT
LOWER GROUND FLOOR

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DRAWN: TU CHECKED: SJM DATE: DECEMBER 2020 SCALE: 1:100 @ A1

SHEAR DESIGN REF: 20047 DRAWING NUMBER: 20047-121 REVISION: E

STATUS: T