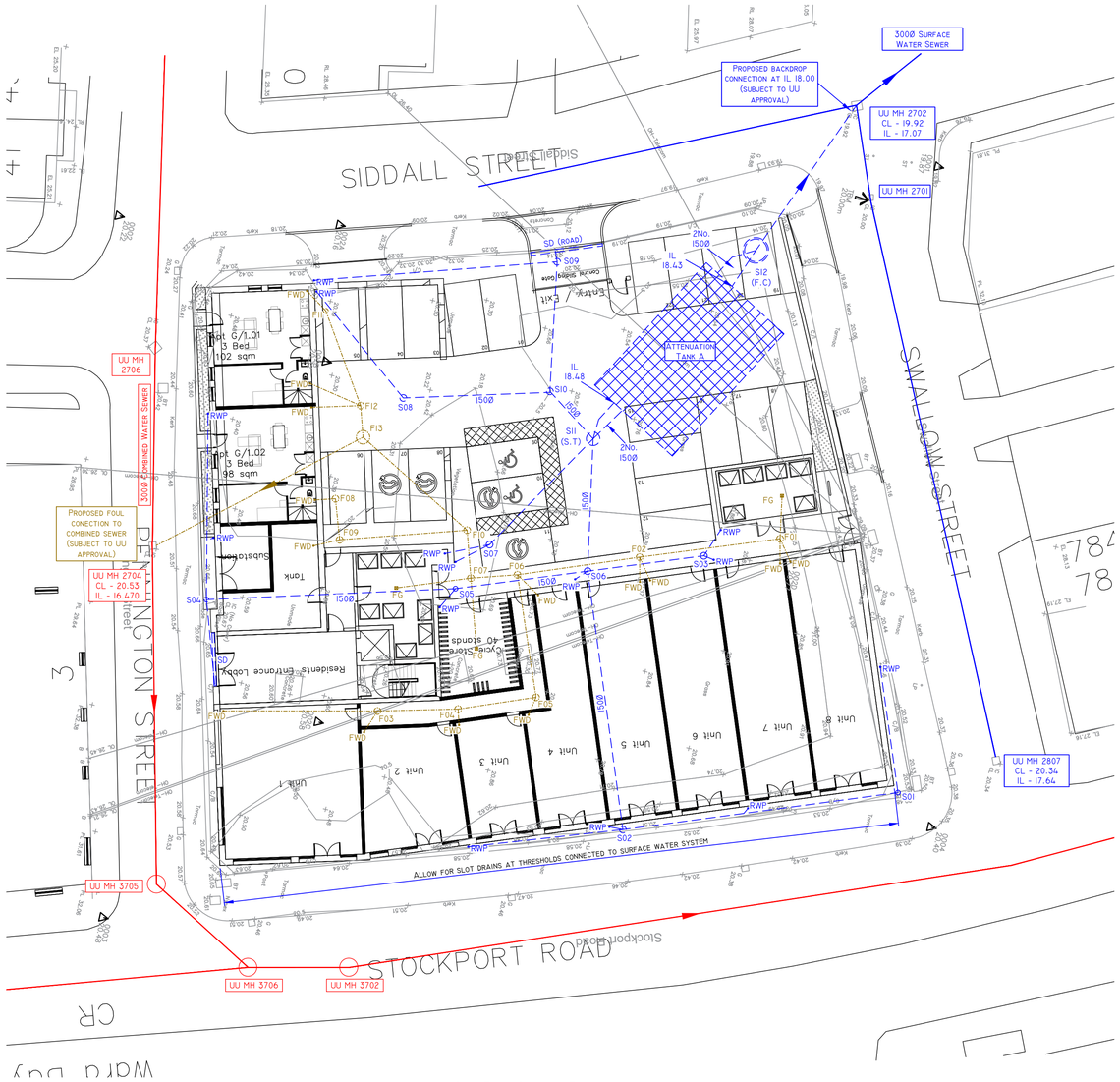


Site Plan Showing Proposed Drainage
1:200 @ a1
1:400 @ a3

- For drainage details refer to drawing J8683/DR02
- Drawing to be read in conjunction with the architect/landscape architects details
- Positions and setting out of floor gulleys, svp and rwp to be to architect's details
- All drainage to have roddable access at base of connection
- Any ppic manhole deeper than 1.2m is to be fitted with an access restrictor cap
- All existing & proposed cover levels & invert levels to be confirmed prior to commencing works
- All slot/channel drains to discharge via a sump unit
- Car park to be formed using positively drained permeable paving to provide a form of filtration prior to discharge. Drainage to be connected to site drainage via silt traps.

- Surface water discharge is to be restricted by vortex flow control device to 5.0l/s during a 1 in 100yr + 40% event as agreed with United Utilities.

  Hydro-Brake reference: MD-SHE-0098-5000-1500-5000
- All positions of proposed drainage & manholes/rodding eyes to be confirmed as acceptable by landscape architect prior to commencing works
- Attenuation Tank A

  Required Storage Volume: 72.96m³
  Proposed Tank Size: 12 x 8 x 0.8m deep

  Cellular attenuation tank to be formed using Wavin Aquacell core-r units. Similar products may be used but BMC to be provided details for approval prior to ordering. If cranes/hgv/heavy storage is proposed over the attenuation during the works then the spec may need to be increased or protective measures such as concrete slab over required.
  Vent to be provided to adjacent manhole to Wavin details.
- Note that this drawing does not show every penetration required through the ground floor slab, and only shows drainage discharge locations. The architect's/m&e engineer's drawings should be referred to when locating other penetrations.

- denotes new surface water drain
- denotes new foul water drain
- FG — denotes floor gully. Gully to be trapped and roddable - spec to be agreed with architect.
- S.D — denotes slot drain - type to be agreed with landscape architect
- denotes ppic/concrete foul water manhole
- denotes ppic/concrete surface water manhole

Surface Water Manhole Schedule

MH Ref.	CL	IL	Depth (m)	Dia. In	Dia. Out	Size/Type
S01	20.45	19.70	0.75	100	100	315 PPIC
S02	20.45	19.00	1.45	100	150	450 PPIC
S03	20.45	19.85	0.60	100	100	450 PPIC
S04	20.45	19.00	1.45	100	150	450 PPIC
S05	20.45	18.79	1.66	150	150	450 PPIC
S06	20.45	18.69	1.76	150	150	450 PPIC
S07	20.45	19.70	0.75	100	100	450 PPIC + C.S
S08	20.45	19.70	0.75	100	100	450 PPIC + C.S
S09	20.45	19.70	0.75	100	100	450 PPIC + C.S
S10	20.45	19.58	0.87	100	100	450 PPIC + C.S
S11	20.45	18.50	1.95	150	150	900 Concrete
S12	20.45	18.40	2.05	150	150	1500 Concrete

Foul Water Manhole Schedule

MH Ref.	CL	IL	Depth (m)	Dia. In	Dia. Out	Size/Type
F01	20.45	19.85	0.60	100	100	450 PPIC
F02	20.45	19.73	0.72	100	100	450 PPIC
F03	20.45	19.70	0.75	100	100	450 PPIC
F04	20.45	19.63	0.82	100	100	450 PPIC
F05	20.45	19.56	0.89	100	100	450 PPIC
F06	20.45	19.40	1.05	100	100	450 PPIC
F07	20.45	19.31	1.14	100	100	450 PPIC
F08	20.45	19.70	0.75	100	100	450 PPIC
F09	20.45	19.62	0.84	100	100	450 PPIC
F10	20.45	19.27	1.18	100	100	450 PPIC
F11	20.45	19.70	0.75	100	100	450 PPIC
F12	20.45	19.61	0.84	100	100	450 PPIC
F13	20.45	19.15	1.30	100	100	900 Concrete

Cover levels set 150mm down from FFL

This design has been produced in accordance with the drainage strategy report ref. 77340-CUR-00-XX-RP-C-92001 produced by Curtins.

This design is subject to LLFA and United Utilities approval. Both approvals must be in place prior to ordering of any materials.

GENERAL NOTES:

1. THIS DRAWING IS COPYRIGHT AND THE PROPERTY OF BELL MUNRO CONSULTING LTD. THE DRAWING MUST NOT BE REPRODUCED IN PART OR IN WHOLE WITHOUT PRIOR WRITTEN AUTHORITY.
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3. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE RELEVANT BMC SPECIFICATIONS TOGETHER WITH THE APPROPRIATE ARCHITECTS AND SERVICES CONSULTANTS DRAWINGS AND SPECIFICATIONS.
4. ALL DIMENSIONS TO BE CHECKED BY CONTRACTOR PRIOR TO FABRICATION.
5. ALL WATERPROOFING AND INSULATION TO ARCHITECTS SPECIFICATION.
6. C-L DENOTES CENTER LINE
7. INSTALLATION OF ALL PROPRIETARY BUILDERS METAL WORK TO BE IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
8. TEMPORARY STABILITY DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE MAIN CONTRACTOR AND SHOULD BE ASSESSED ACCORDINGLY.

DRAINAGE NOTES

1. EXACT SVP AND GULLEY LOCATIONS TO BE CONFIRMED FROM SERVICES ENGINEERS'/ARCHITECTS DRAWINGS AND DETAILS.
2. ALL NEW PIPEWORK TO BE WAVIN OSMADRAIN OR WAVIN ULTRARIB UPVC (OR SIMILAR APPROVED) UNLESS NOTED OTHERWISE.
3. PLASTIC PIPES (PVC-U)TO BE FLEXIBLY JOINTED AND COMPLY WITH THE REQUIREMENTS OF BS EN 1401-1 1998.
4. WHERE COVER TO PIPES IS LESS THAN 1200 IN ROADS AND HARDSTANDINGS OR 900 MM ELSEWHERE, CONCRETE SURROUND IS TO BE PROVIDED IN ACCORDANCE WITH THE DETAIL (CLASS Z BEDDING).
5. ALL OTHER PIPEWORK TO BE IN CLASS S BEDDING.
6. N.B. UNTIL FINAL SERVICE IS PLACED, HEAVY TRAFFIC IS NOT TO BE ALLOWED OVER PIPE TRENCHES WITHOUT SPECIAL PRECAUTIONS.
7. PIPES AND FITTINGS ARE TO BE LAID IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
8. MANHOLE COVERS IN CAR PARKS TO BE LOAD CLASS D400 TO BS EN 124.
9. MANHOLE COVERS IN LANDSCAPED AND PAVED AREAS TO BE LOAD CLASS B125 BS EN 124.
10. MANHOLE COVERS IN PAVED AREAS TO BE RECESSED TO ACCEPT PAVING FINISH.
11. ACCESS COVERS FOR GULLIES IN KERBSIDES TO BE LOAD CLASS C250 BS EN 124.
12. ALL INTERNAL POP UPS TO HAVE RODDABLE ACCESS.
13. PUMPING STATION TO BE DESIGNED BY SPECIALIST.
14. ANY PPIC MANHOLE DEEPER THAN 1200MM MUST BE FITTED WITH ACCESS RESTRICTOR CAP.
15. ALL EXISTING DRAINAGE TO BE CONFIRMED PRIOR TO CONSTRUCTION COMMENCING.
16. PIPEWORK PASSING THROUGH BUILDING WALLS SHALL BE FITTED WITH ROCKER PIPES AS PER STANDARD DETAIL.
17. ANY UNLABELLED FOUL BRANCH PIPEWORK TO BE 100Ø PIPEWORK AT MINIMUM 1:80 FALL.
18. ANY UNLABELLED STORM WATER BRANCH PIPEWORK TO BE 100Ø AT MINIMUM 1:40 FALL.
19. ALL RWP LOCATIONS AND NUMBERS ARE TO BE CONFIRMED BY ARCHITECT PRIOR TO COMMENCING CONSTRUCTION.

PLANNING

REV.	COMMENTS	DATE	BY
A	UPDATED TO COMMENTS	20/02/25	RC
--	INITIAL ISSUE	17/12/24	RC

BMC

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CLIENT: VIEWS

PROJECT: 786 STOCKPORT ROAD

TITLE: DRAINAGE LAYOUT

DRAWN BY:	CHECKED BY:	SCALE:	DATE:
R.C	S.J.B	1:200	12/24

DRAWING NUMBER: J8683/DR01 REVISION: A