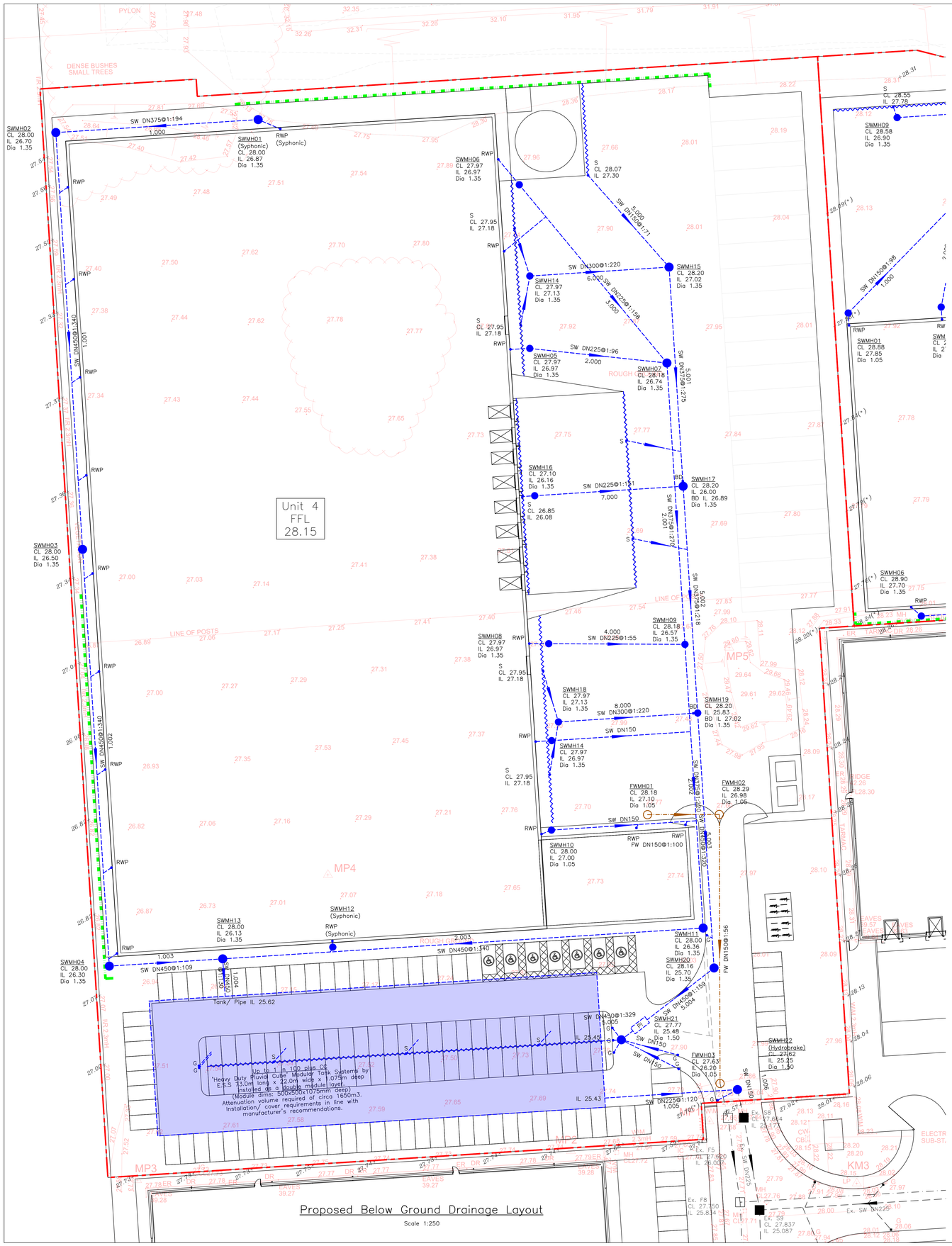


Proposed Below Ground Drainage Layout

Scale 1:250

Legend

- Ex. SWMH – Existing Surface Water Manhole
- SWMH – New Surface Water Manhole
- Ex. FWMH – Existing Foul Water Manhole
- FWMH – New Foul Water Manhole
- Ex. G – Existing Road Gully
- G – New Road Gully
- Ex. RWP – Existing Rain Water Pipe
- RWP – New Rain Water Pipe
- S – New Channel Sump
- New Channel – New Channel Drain
- Existing Channel – Existing Channel Drain
- Existing Surface Water Drain
- New Surface Water Drain
- PI — Petrol Interceptor (Klargester NSBE015, tba)
- Existing Foul Water Drain
- New Foul Water Drain
- Easement, details tbc
- Site Boundary (Tbc By Architect)

N

Notes.

1. All dimensions are in millimetres unless noted otherwise.
2. All levels are in metres unless noted otherwise.
3. This drawing is to be read in conjunction with all relevant Architects and Service Engineers drawings.
4. All drainage pipes to be Polypipe adoptable drainage system, or similar approved up to 300mmø and concrete from 375mmø.
5. All road gullies to have Grade D400 gratings to B.S.E.N. 124 with 450ø x900 deep Pre-Cast concrete or polyethylene pots.
6. Manholes to be precast concrete rings to BS 5911 min 1200 dia u.n.o.
7. All Manhole covers to be Grade B125 in footpaths/ soft landscaping or D400 in trafficked areas to B.S.E.N. 124.
8. Invert levels quoted are exit inverts.
9. Pipes with cover of less than 1200mm under road/paved and 900mm under landscaped areas to be encased in concrete bedding class S
10. All RWP's & SVP's to have roddable access covers.
11. Installation of manholes, road gullies, pipes, channels etc to be as per the manufacturer's instructions and recommendations.
12. Proposed pipes to be 150dia u.n.o.
13. All drainage to comply with the requirements of BS8301 & Building Regulations part H.

Foul and surface water to be connected into existing tails. Invert levels of tails to be confirmed on site.

Above ground SW drainage design by Others (siphonic drainage assumed).

Hydrobrake to limit the flow to 5.6 l/s @ 1.2m.

Finish levels, gradients etc. indicative only subject to detailed design– by others.

Location/ details of existing SW/ FW sewer taken from survey drawings 1305/001&002, by Layer Surveys Ltd.

Location/ size etc. of RWP's, IC's, pipes indicative only subject to detailed design.

Maximum allowable discharge to SW sewer 5.6l/s, as agreed with UU.

Underground storage crates to provide storage volume required for 1in100 plus 40% climate change allowance.

Drawing is based on Architect's layout 12474–AEW–SI–XX–DR–A–00014, revision P02

Petrol interceptor specification to be agreed with LA.

Connection details to existing UU sewer in line with UU requirements.

Drawing is based on topographical survey 21K145/001, December 2021, by Survey Operations.

Drawing is based on 'Underground Utility Survey' UAR3263_A, July 2022, by RPS.

0 5m 10m 15m 20m 25m
Scale 1:250

DRAWING INDICATIVE ONLY FOR COSTING PURPOSES. FINAL DESIGN AND CONSTRUCTION DETAILS BY THE CONTRACTOR.

Rev	Drawn	Date	Description
T1	JS	12/22	Issued for Tender

Drawing Status
TENDER

Contract
NETWORK SPACE
ALCHEMY, KNOWSLEY
UNIT 04

Drawing Title
PROPOSED
BELOW GROUND
DRAINAGE LAYOUT
(WITH TOPO)

integra consulting
Civil & Structural Engineers
Suite 4
14–32 Hewitt Street
MANCHESTER
M15 4GB
Tel : 0161 237 3400
Fax : 0161 237 3635
Email : manchester@integraconsulting.co.uk
Web : www.integraconsulting.co.uk

Scales	Date
1:250 @ A0	12/2022
Drawn: JS	Checked: JH
Contract No: 3343	Drawing No: 103
	Rev: T1