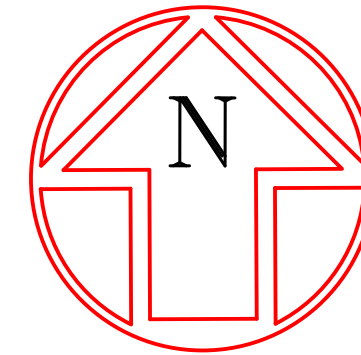


Notes.

- 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 300mm and concrete from 375mm.
- 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.



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
- Petrol Interceptor (Klargester NSBE015, tba)
- Existing Foul Water Drain
- New Foul Water Drain
- Easement, details tbc
- Site Boundary (Tbc By Architect)

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

T1	JS	12/22	Issued for Tender
Rev	Drawn	Date	Description
Drawing Status			
TENDER			
Contract			
NETWORK SPACE ALCHEMY, KNOWSLEY UNIT 05			
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@integroconsulting.co.uk Web : www.integroconsulting.co.uk			
Scale	1:250 @ A0	Date	12/2022
Drawn	JS	Checked	JH
Contract No	3343	Drawing No	203
		Rev	T1

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

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

Hydrobrake to limit the flow to 2.4 l/s @ 1.15m.

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

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

Proposed Below Ground Drainage Layout

Scale 1:250



Foul and surface water to be connected into existing sewers. Connection type/ location etc. tba with UU.

Above ground SW drainage design by Others.

Finish levels, gradients etc. indicative only subject to detailed design— by Others.

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

Petrol interceptor specification to be agreed with LA.

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

SW connection type/ location etc. into existing sewer tba with UU.

FW connection type/ location etc. into existing sewer tba with UU.