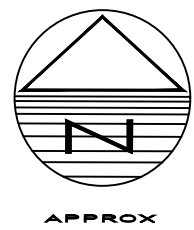
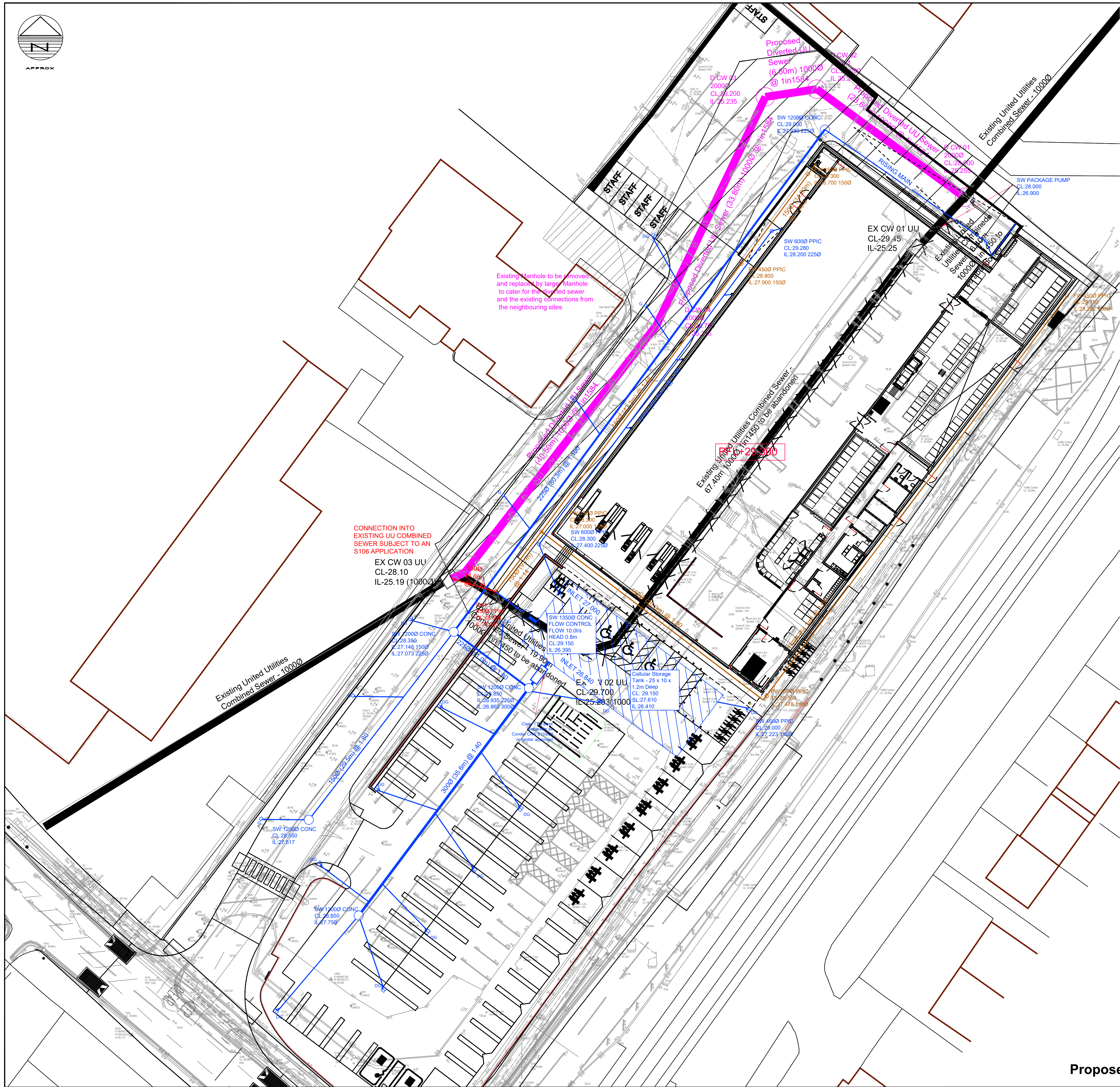
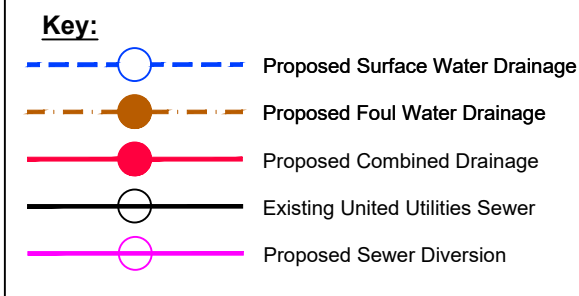




RWP AND SVP/FOUL CONNECTIONS
ARE SUBJECT TO FINAL
CONFIRMATION BY ARCHITECT



Drainage Strategy

Under SuDs guidance the first point of discharge for surface water is percolation via soakaway. It is proposed for the purposes of this strategy that infiltration is not viable.

NPPF guidelines require that surface water arising from a developed site should as far as practicable be managed in a sustainable manner to mimic the surface water flows arising from the site prior to development.

Surface Water:

A United Utilities Pre Planning Sewerage Enquiry has been submitted. This states that a flow rate of 10.0l/s can be utilized on the site. Furthermore, this can discharge into the combined sewerage system.

The proposed impermeable area is 6250m². Based on this infiltration rate and modeling using Micro Drainage software the attenuation requirement for a peak return period of 1 in 100year plus 40% climate change is **282.1m³**.

Attenuation to be provided via **GEO-CELLULAR ATTENUATION TANK 25.0x10.0x1.2m DEEP WITH 95% VOID RATIO**.

The flows will be restricted via a 143mm Hydrobrake Flow control device, with product code - MD-SHE-0143-1000-1200-1000.

It is proposed that the surface water will discharge into the United Utilities combined sewer passing through the site

Foul Water:

Foul water from the proposed new site will connect into the United Utilities combined sewer passing through the site, via the same connection as the surface water.



Proposed Catchment Area
Plan (1:1000) = 6250m²

Proposed Drainage Strategy (1:250)

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Notes:

1. This drawing is to be read in conjunction with all relevant architect's and engineer's drawings.
2. It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

P4	UPDATED TO SUIT NEW SITE LAYOUT		20.10.23	JS
No.	Revision		Date	Drwn
Status		PLANNING		
<div><div><div>TOPPING ENGINEERS CONSULTING CIVIL & STRUCTURAL ENGINEERS</div></div><div><p>Alire House 12 Victoria Avenue Harrogate HG1 1ED t: 01423 522 293</p><p>Unit 223 Ducie House Ducie Street Manchester M1 2JW t: 0161 806 1701</p><p>www.topping-engineers.com</p></div></div>				
Client		<div>Lidl UK GmbH</div> <div></div>		
Project		<div>Lowry House</div> <div>550 Mauldeth Road</div>		
Drawing title		Drainage Strategy		
Drawn	TA	Chkd	AD	Date
Contract No.		22306		June 2022
		DR-C-0100		Scale
				As Shown @ A1
				Revision
				P4