

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

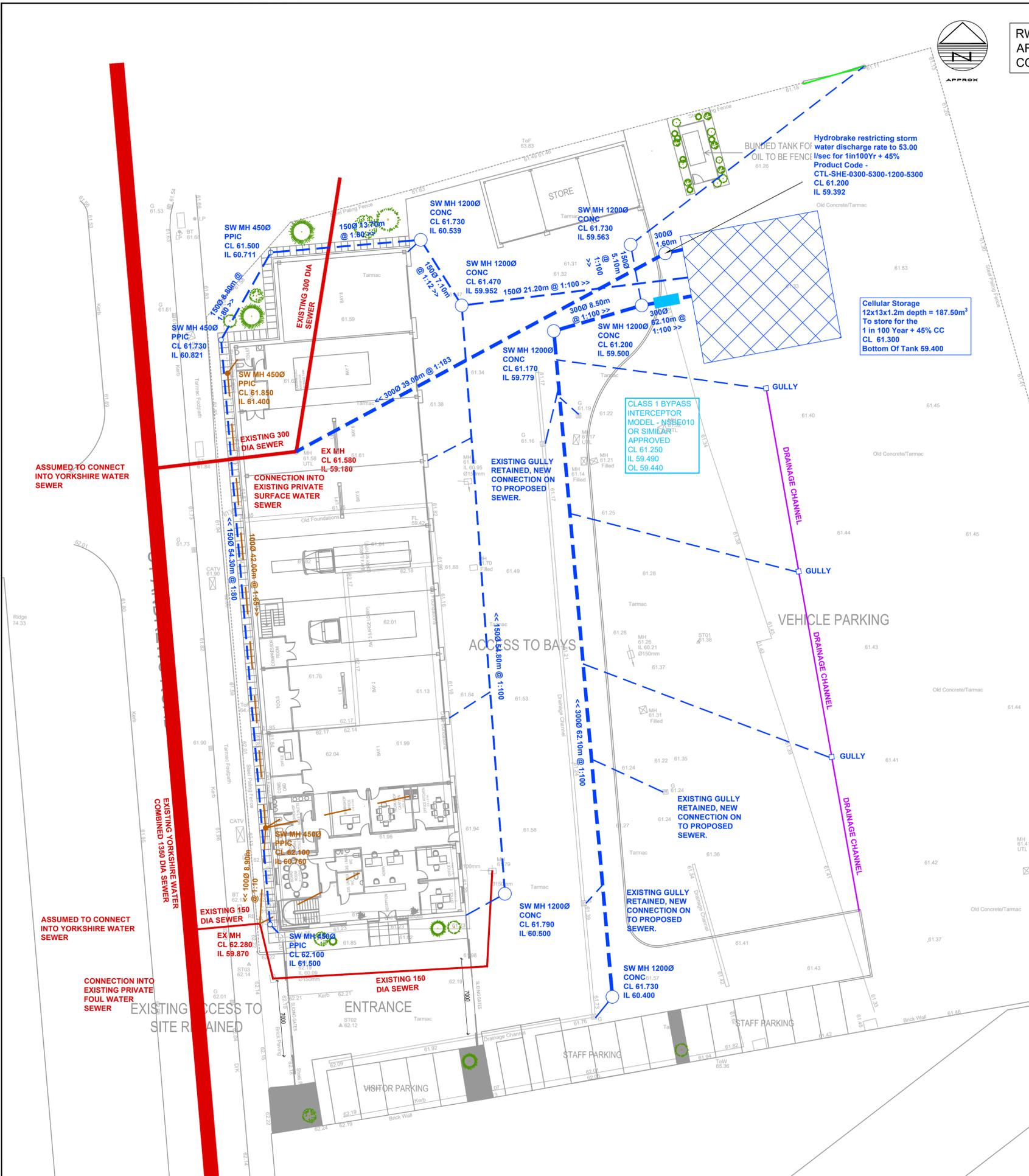


Key			
	Proposed Surface Water Drainage		
	Proposed Foul Water Drainage		
	Existing Sewer		

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Status			
PRELIMINARY			
No.	Revision	Date	Drwn
P1	FIRST REVISION	09.12.24	JS



Hydrobrake restricting storm water discharge rate to 53.00 l/sec for 1 in 100 Yr + 45% Product Code - CTL-SHE-0300-5300-1200-5300 CL 61.200 IL 59.392

Cellular Storage 12x13x1.2m depth = 187.50m³ To store for the 1 in 100 Year + 45% CC CL 61.300 Bottom Of Tank 59.400

CLASS 1 BYPASS INTERCEPTOR MODEL - NSBE010 OR SIMILAR APPROVED CL 61.250 IL 59.490 OL 59.440

Drainage Strategy

The site is located within flood zone 1 with a low risk of flooding from rivers or the sea and is less than one hectare, therefore a site specific flood risk assessment is not required.

Under SuDs guidance the first point of discharge for surface water is percolation via soakaway. Site percolation was carried on 5th December 2024 and is proven infiltration by soakaway is not viable. Please refer to Dart Engineers report.

The existing site is brownfield with an existing drainage system which discharges into the existing Yorkshire Water combined water sewer. The existing site has an impermeable area of 5697m² with a discharge rate of 78.61l/s for the 1 in 1 year storm. Therefore, we are proposing to provide a 30% reduction for the 1 in 100 year storm and are proposing to discharge surface water at 55.00l/s. However, surface will discharge into the 300mm sewer, therefore a maximum flow rate of 53.00l/s can be achieved.

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:

Flow restriction of 53.00l/s will be achieved using a hydrobrake Product Code - CTL-SHE-0300-5300-1200-5300.

The proposed impermeable area is 6390m², urban creep has not been included due to the majority of a site been developed. Based on a flow restriction of 53.00l/s and modeling using Micro Drainage software the attenuation requirement for a peak return period of 1 in 100 year plus 45% climate change is 187.20m³.

Attenuation for the proposed impermeable area of 6390m² to be provided via GEO-CELLULAR TANK 12x13x1.20m DEEP = 187.50m³.

Surface water from the proposed new site will connect into the existing 300 dia private sewer.

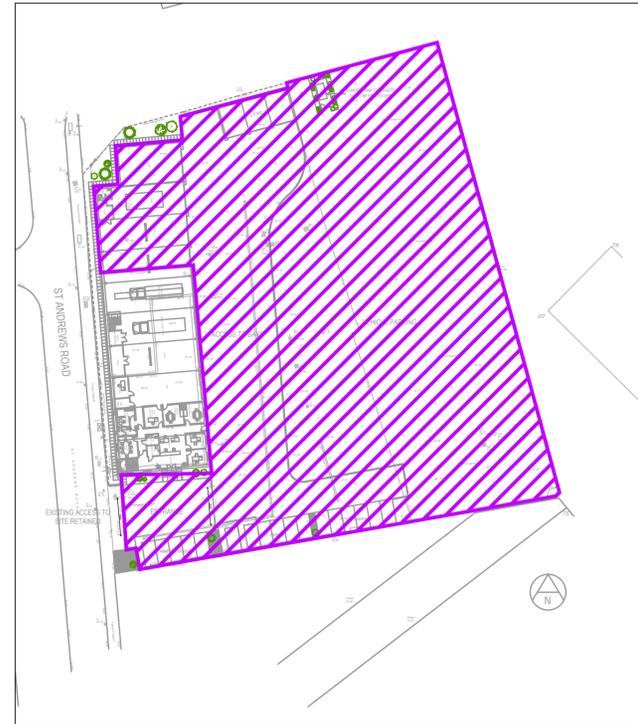
Surface water will drain through a petrol interceptor then discharge into proposed sewer.

Foul Water:

Foul water from the proposed new site will connect into the existing private foul sewer.



Proposed Impermeable Area Plan - Scale (NTS)



Existing Impermeable Area Plan - Scale (NTS)

Drainage Strategy - Scale (1:200)

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CLIENT	Arrow Self Drive		
PROJECT	St Andrew Road, Huddersfield		
DRAWING TITLE	Drainage Strategy		
Drawn JS	Chkd AD	Date Dec 2024	Scale As Shown
Sheet Size A1	Drawing No. 24466-DR-C-0100	Revision	P1