

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



Key

- Proposed Surface Water Drainage
- Proposed Foul Water Drainage
- Existing Sewer

This drawing is copyright of DART Engineers Ltd and must not be copied or reproduced in any way without written consent.

- Do not scale off this drawing
- This Drawing is for planning purposes only and should not be used as a construction drawing

Status			
PRELIMINARY			
No.	Revision	Date	Drwn
P1	FIRST REVISION	09.12.24	JS
P3	UPDATED TO SUIT LLFA COMMENTS	17.07.25	JS

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 5897m² 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 being 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:

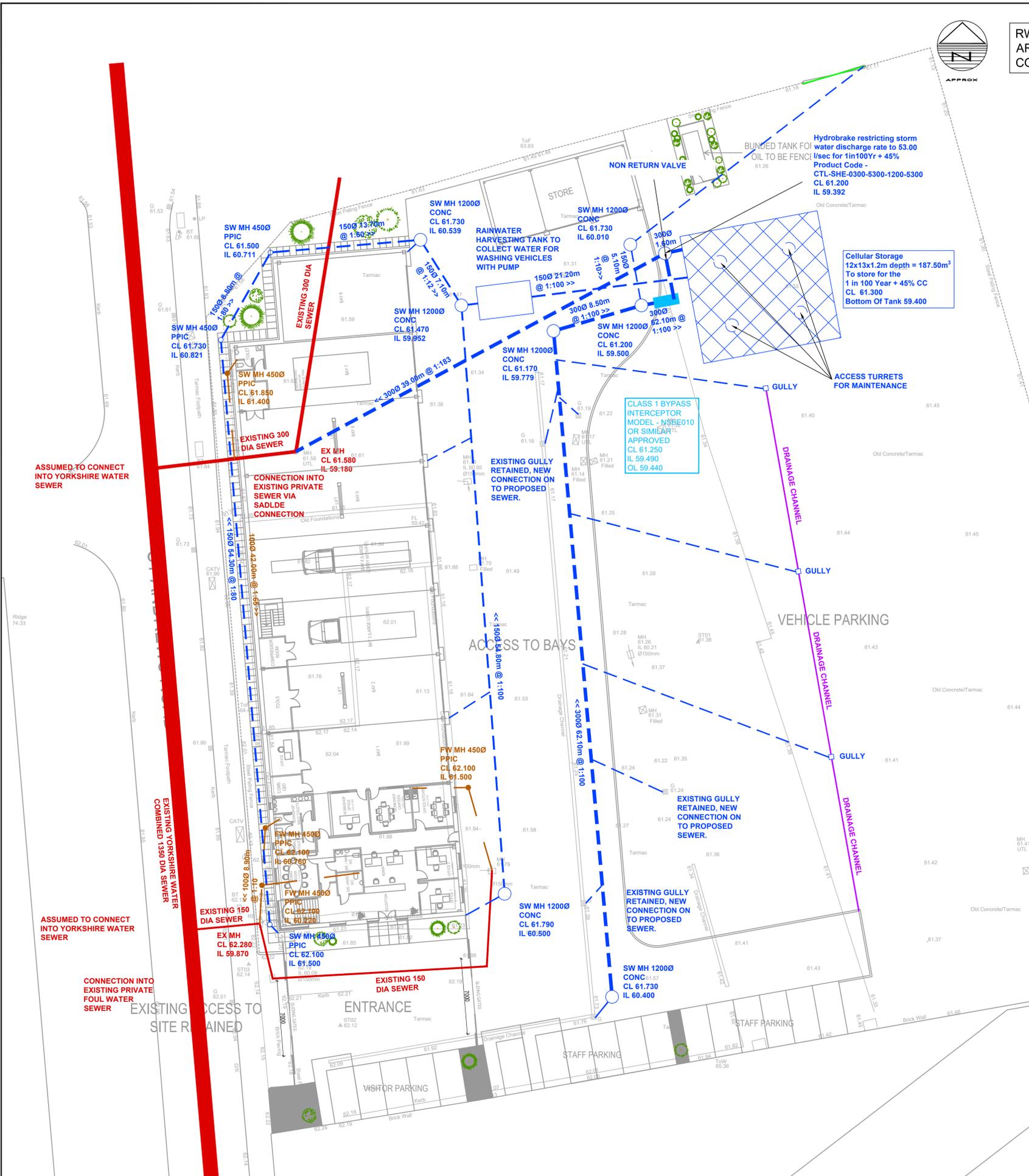
Foul water from the proposed new site will connect into the existing private foul sewer.



Proposed Impermeable Area Plan - Scale (NTS)



Existing Impermeable Area Plan - Scale (NTS)



Drainage Strategy - Scale (1:200)



CONTACT
 e: andy@dart-engineers.com
 e: rob@dart-engineers.com
 t: 01837 339827
 w: www.dart-engineers.com

CLIENT
 Arrow Self Drive

PROJECT
 St Andrew Road, Huddersfield

DRAWING TITLE
 Drainage Strategy

Drawn	Chkd	Date	Scale
JS	AD	Dec 2024	As Shown
Sheet Size	Drawing No.	Revision	
A1	24466-DR-C-0100	P3	