



Total Existing Impermeable Area 594m²
 Total Additional Impermeable Area 388m²
 Total Impermeable Area 982m²

ALL SURFACE WATER FLOWS GENERATED BY ROOFS AND HARD STANDING AREAS ARE ATTENUATED VIA ORIFICE PLATE FLOW CONTROL DEVICE. ATTENUATION TANK IN THE FORM OF STORAGE CRATES (IE PLUVIAL CUBES) ARE USED TO PROVIDE STORMWATER STORAGE FOR STORM PERIODS UP TO 1 IN 100 YEARS WITH AN ALLOWANCE OF 40% CLIMATE CHANGE.

ALL RW AND SVP LOCATIONS TOP BE CONFIRMED

Surface Water Drainage strategy

The surface water drainage proposals for this site are to discharge into the Private network via a conventional below ground piped network using a storage tank and flow control device to limit flows to agreed discharge rates.

The proposed discharge rates is 5 litres/second.

Whilst this is lower down the hierarchy identified by the EA, within the NPPF and the LLFA it still represents a suitable SUDS solution which is compatible with the particular constraints of the site detailed in the FRA and site investigation report. It also satisfies and far exceeds LLFA requirement of at least 50% betterment on existing flows as detailed in BKP Drainage Strategy.

NOTES

1. Do not scale from this drawing.
2. This drawing is copyright and is sent to you in confidence. It must not be copied, used or disclosed, in whole or in part, to third parties without written permission. It remains the property of Booth King Partnership Ltd. and must be returned on request.
3. This drawing is to be read in conjunction with all relevant contractual documents.
4. Anyone using this drawing must be aware of their legal duties under the CDM Regulations 2015, refer to the HSE website for further information. BKPL are not Principal Designers.
5. All dimensions shown on this drawing are in millimeters unless noted otherwise.
6. If the Contractor consider that they do not have sufficient information to safely complete the works detailed on this drawing, they should contact the Engineer.
7. All works are to be carried out in accordance with the Building Regulations (as amended) and to the approval of Building Standards.

Drainage Notes:

1. All external sw pipes to be 150Ø at minimum fall 1:150 UNO in accordance with 'Design and Construction Guidance - Approved Version 2.1' where applicable.
2. All below ground foul pipes to be 100Ø at 1:40 UNO
3. All pop ups to be fitted with type 2 (225x100) rodding access fitting above ground level to allow maintenance.
4. All inspection chambers to be Wavin reduced access PPIC's UNO.
5. Location of all venting positions to the below ground foul network to be confirmed by others.
6. Any pipe runs which are drawn with curvature are at risk of dislocation at the pipe joint. Consequently, jointless PE pipe runs should be considered in these areas.
7. To be read in conjunction with BKP standard details drawing 14811-BKP-V1-XX-DR-C-550-P1-Drainage details.
8. Pipes of different diameters entering manholes should be installed with soffits at same level.

REV.	DATE	REVISION DETAILS	INITIALS
P01	23.09.23	Preliminary Issue	JL

bk boothking
 PARTNERSHIP LIMITED
 CONSULTING CIVIL & STRUCTURAL ENGINEERS
 www.booth-king.co.uk office@booth-king.co.uk
 MANCHESTER RAMSBOTTOM EDINBURGH
 Tel: 0161 694 7087 Tel: 01706 822 022 Tel: 0131 229 1547

PROJECT: **Tor View Sports Hall**

TITLE: **Drainage General Arrangement**

SCALE @ A1:	DRAWN:	DATE:	REVISION:	STATUS:
1:100	JL	Sep '23	P01	S2

DRAWING No: **14811-BKP-V1-XX-DR-C-0500**