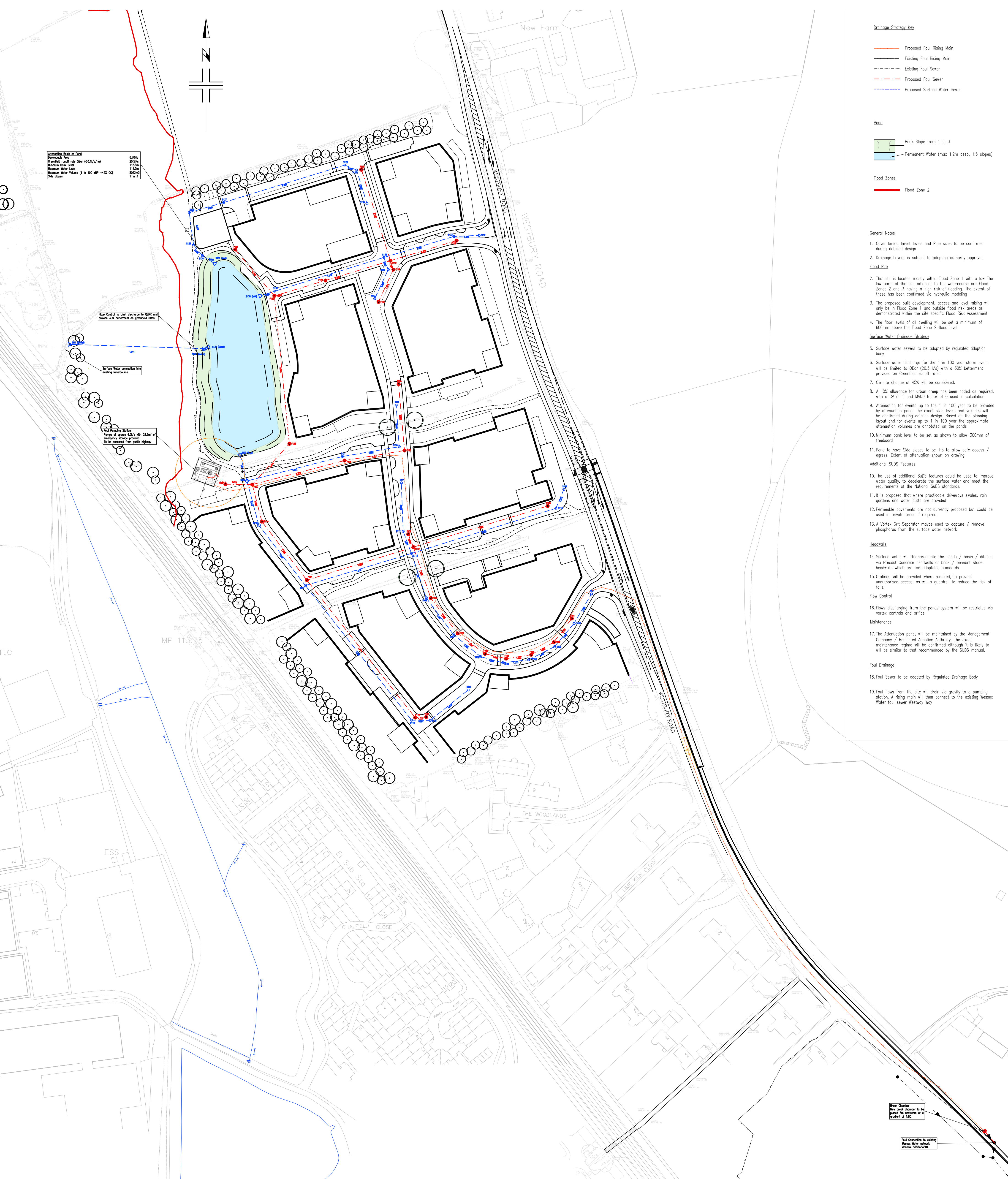


Appendix G

Drainage Strategy



Drainage Strategy Key

- Proposed Foul Rising Main
- Existing Foul Rising Main
- Existing Foul Sewer
- Proposed Foul Sewer
- Proposed Surface Water Sewer

Pond

- Bank Slope from 1 in 3
- Permanent Water (max 1.2m deep, 1:3 slopes)

Flood Zones

- Flood Zone 2

General Notes

- Cover levels, invert levels and Pipe sizes to be confirmed during detailed design
- Drainage Layout is subject to adopting authority approval.

Flood Risk

- The site is located mostly within Flood Zone 1 with a low The low parts of the site adjacent to the watercourse are Flood Zones 2 and 3 having a high risk of flooding. The extent of these has been confirmed via hydraulic modelling
- The proposed built development, access and level raising will only be in Flood Zone 1 and outside flood risk areas as demonstrated within the site specific Flood Risk Assessment
- The floor levels of all dwelling will be set a minimum of 600mm above the Flood Zone 2 flood level

Surface Water Drainage Strategy

- Surface Water sewers to be adopted by regulated adoption body
- Surface Water discharge for the 1 in 100 year storm event will be limited to 0.2m (20.5 l/s) with a 30% betterment provided on Greenfield runoff rates
- Climate change of 45% will be considered.
- Attenuation for events up to the 1 in 100 year to be provided by attenuation pond. The exact size, levels and volumes will be confirmed during detailed design. Based on the planning layout and for events up to 1 in 100 year the approximate attenuation volumes are annotated on the ponds
- Minimum bank level to be set as shown to allow 300mm of freeboard
- Pond to have Side slopes to be 1:3 to allow safe access / egress. Extent of attenuation shown on drawing

Additional SuDS Features

- The use of additional SuDS features could be used to improve water quality, to decelerate the surface water and meet the requirements of the National SuDS standards.
- It is proposed that where practicable driveways swales, rain gardens and water butts are provided
- Permeable pavements are not currently proposed but could be used in private areas if required
- A Vortex Grit Separator maybe used to capture / remove phosphorus from the surface water network

Headwalls

- Surface water will discharge into the ponds / basin / ditches via Precast Concrete headwalls or brick / permeable stone headwalls which are too adoptable standards.
- Gratings will be provided where required, to prevent unauthorised access, as will a guardrail to reduce the risk of falls.

Flow Control

- Flows discharging from the ponds system will be restricted via vortex controls and orifice

Maintenance

- The Attenuation pond, will be maintained by the Management Company / Regulated Adoption Authority. The exact maintenance regime will be confirmed although it is likely to will be similar to that recommended by the SuDS manual.

Foul Drainage

- Foul Sewer to be adopted by Regulated Drainage Body
- Foul flows from the site will drain via gravity to a pumping station. A rising main will then connect to the existing Wessex Water foul sewer Westway Way

Bank Slopes
Bank level chamber to be placed on upstream of a gradient of 1:50

Foul Connection to existing
Wessex Water network
Manhole S107/64804

A 11.12.2025 Flood Zones Added
Revisions

Project: Westbury Road
Warminster

Client:

BDW Trading Ltd

Drawing: Drainage Strategy

Scale: 1:100 @ A1 Date: Nov 2025 Drawn by: GB

Drawing No: 678-FRA-050 Rev: A

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Drg Status: PLANNING

