



Flow Control Chamber Manhole S21 HB
 Hydro International HydroBrake Optimum
 SHE-0256-4320-2500-4320
 Design head = 2.500 m
 Restricted discharge max. = 42.4 l/sec
 Flow control orifice size 256mm
 Cover level: 59.669 m AOD
 Invert level: 56.750 m AOD

Drainage Strategy - Surface water
 Proposed surface water flows generated by the development are proposed to discharge to the existing onsite watercourse MH Ref: M1 located in the southern boundary, at a restricted rate of 42.4 l/s.
 The surface water pipe network has been designed to cater for 1:30yr storm events with the online attenuation basin providing additional storage in the 1:100yr+45% Climate Change event.
 Connection manhole:
 MH Ref M1 (existing)
 CL 59.761 m AOD
 IL 56.730 m AOD (300Ø)
 (Manhole details measured onsite)
 Approval to connect into existing surface water network to be confirmed with LLFA prior to detailed design as a pre-development enquiry.
 Further drainage investigation works (CCTV) required to determine existing cover levels, invert levels, pipe dia, manhole dia and general condition.

Attenuation Basin
 To attenuate flows up to 1:100 year storm + 45% climate change
 Base Level: 57.525 m
 Top of Bank Level: 59.525 m
 Freeboard: 300 mm
 Temp maximum storage volume: 1254.412m³

- Legend**
- Site Extents
 - Existing Public Combined Sewer & Manhole
 - Existing Public Surface Water Sewer & Manhole
 - Proposed Adoptable Surface Water Sewer & Manhole
 - Proposed Gully and 150Ø Connection
 - Proposed Adoptable Foul Water Sewer & Manhole
 - Proposed Sewer Easement
 - Proposed Finished Floor Level
 - Proposed Foul Water Rising Main
- Notes**
- Planning layout ref. Taylor Wimpey - 25053-1000H-Site Layout_2025-10-09.
 - Topographical survey provided by 'GEO, ref 'G24104 - Stoney Lane, Prescot Topographical and Utility Survey, Dated March 2024.
 - Road details, levels and layout are subject to local authority section 36 Highways approval.

Mark	Date	Details	Revision	By	Chk
P08	05.12.25	Proposed discharge rate amended	CP		
P07	05.12.25	Amended to suit new planning layout	NR		
P06	15.10.25	Amended to suit layout dated: 09.10.25	TR		
P05	02.10.25	Cellular storage removed & rising main shown	TR		
P04	25.09.25	Amended to suit latest layout	TR		
P03	11.04.25	Plots 13 and 14 FFL changed	NR		
P02	07.04.25	Drainage strategy amended, pond removed, tank added, pipes downsized.	NR		
P01	04.04.25	Preliminary issue for review	NR		

Revision history

Drawing originator:

BETTS HYDRO CONSULTING ENGINEERS BETTS ASSOCIATES CONSULTING ENGINEERS BETTS GEO CONSULTING ENGINEERS

Client: **Taylor Wimpey**

Project title: **Glen Dimplex Stoney Lane**

Drawing title: **Preliminary Drainage Layout**

Scale: AS SHOWN for the original size of A1

Drawn by: NR | Checked by: | Posed by: | Date: Apr 2025

Drawing status: **Technical Due Diligence**

Job No: TAY143 | Drawing No: GDX | Project Origin: BET | Volume: ZZ | Level: XX | Type: DR | Disc: C | Number: 0001 | Revision: P08

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Sheet layout
 Scale: 1:2000

Inset B - Preliminary Drainage Layout
 Scale: 1:500