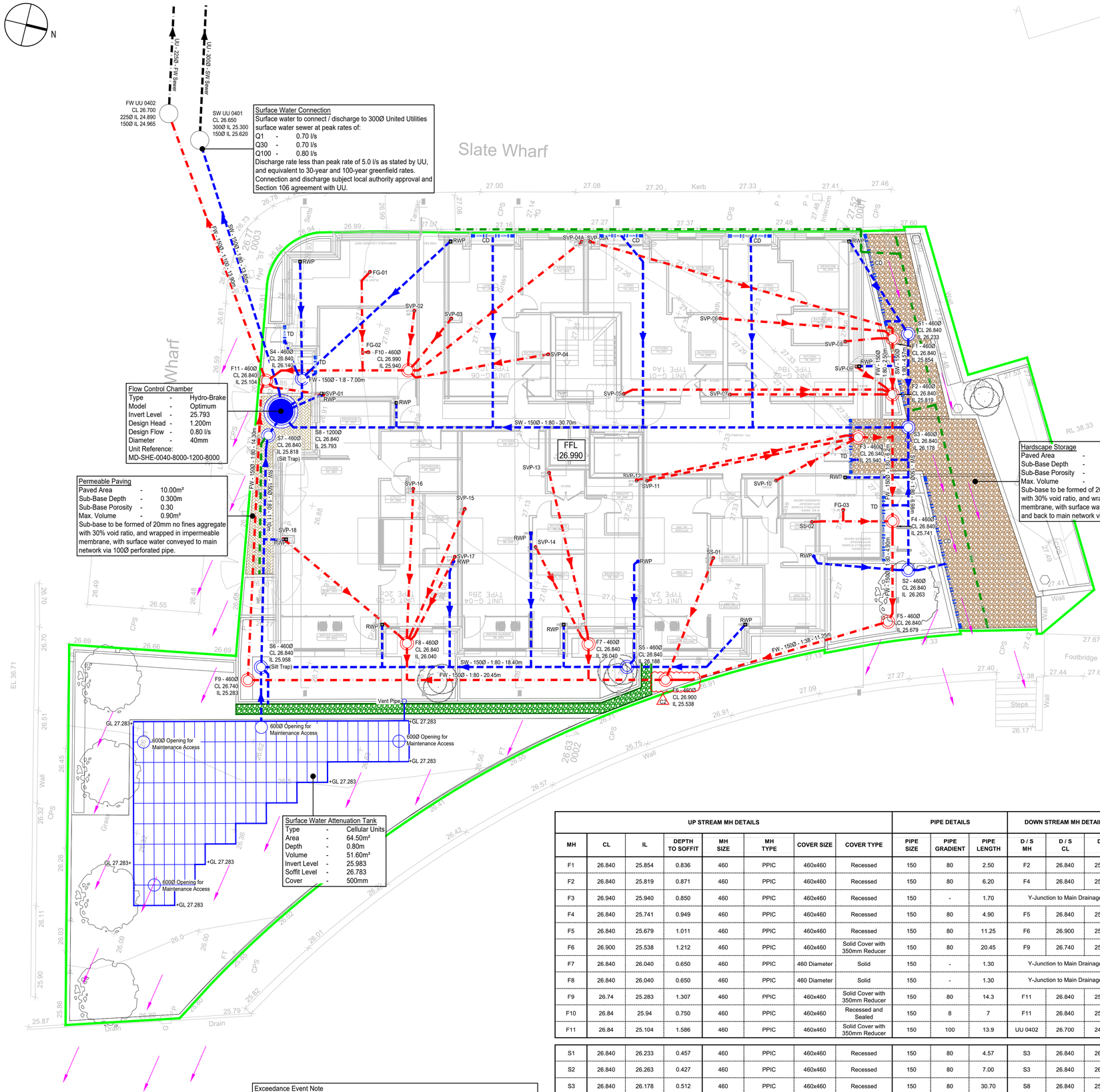


Exceedance Event Note

If an extreme storm greater than the designed 1 in 100-year + 40% climate change were to occur, there is a potential for the network to flood.

Flood water will follow the topography of the post and pre-development site, where it will flow away from the proposed residential building, towards the south-east boundary and into the Bridgewater Canal.

The flood water will not flow towards any existing dwelling / properties near the site, and therefore will not increase the risk of flooding to the proposed dwelling or to neighbouring land and property.

General Drainage Notes:

Existing details shown on this drawing including kerblines, existing drains, chambers, sewers, pipework, stub connections where new connections, diversions or abandonment are shown, invert levels and pipe sizes shall be checked and confirmed to the engineer prior to the commencement of any works. Any discrepancies shall be reported to the engineer for action prior to any new construction.

All drainage works shall be carried out in accordance with the requirements of the local authority and in conjunction with all relevant British Standards and Codes of Practice

All drainage shall comply with the typical drainage construction details and the requirements of BS EN 752.

Access covers and frames shall comply with the loadings specified and to BS EN 124 and kitemarked or if recessed covers are specified then in accordance with FACTA association equivalent.

The proposed building outlines shown on this drawing are for information only. Refer to Architects plans for precise location setting out information and details.

All underslab drainage shall be clear of foundations unless shown otherwise with long radius bends kept to a minimum and used where unavoidable.

All private drainage pipework for foul and surface water systems have been designed on the basis of UPVC to BS EN 1401-1, unless noted otherwise.

Where new drainage is situated within 5 metres of new or existing trees the pipework shall be encased in concrete to reduce the risk of root ingress.

Concrete encasement of the pipework shall be required where the vertical clearance between two pipes crossing is less than 300mm.

All existing drainage shall be assumed to be 'live' and shall be maintained at all times during the works. Existing drainage shall be reconnected to the new drainage system unless proven to be redundant for abandonment. All existing drainage to be abandoned shall be sealed by appropriate means.

Upon completion all new drainage installation together with any existing drainage retained shall be jetted and CCTV surveyed upon completion. Contractor to ensure that the drainage system is fully operational, free of excess debris/silt and all identified faults rectified.

HEALTH & SAFETY: The works shall be carried out by specialist competent and experienced contractors. All operatives shall have received full and appropriate training with appropriate qualifications for the operations they are required to undertake. All work shall be carried out in accordance with the relevant Health & Safety Regulations.

Site Specific Drainage Notes:

Proposed rainwater and foul down pipe locations to be confirmed prior to the commencement of any drainage works.

All external levels and subsequent cover levels of proposed drainage network to be conformed by Architect prior to commencement of any drainage works.

Existing sewer size, levels and location to be confirmed prior to commencement of any drainage work.

Surface and foul water discharge to United Utilities sewers subject to local authority approval, and Section 106 agreement with United Utilities. No drainage work to commence until approval notices are given.

All foul water pipes to be 100Ø, and all surface water pipes to be 150Ø unless shown otherwise.

Foul water down pipes to have invert level of 750mm below finished floor level, unless stated otherwise.

Foul pipes can be laid at a gradient of 1 in 40 unless stated otherwise.

Rainwater pipes to have invert level of 450mm below finished floor level, unless stated otherwise.

Rainwater pipes to be laid at a minimum gradient of 1 in 80 unless stated otherwise.

Drainage Specifications

Foul water pipes to be Polypipe to BS EN 1401-1 or similar

Surface water pipes to be Polypipe Ridgidrain or similar

Manholes to be PCC by FP McCann or similar

Flow control to be Hydro-Brakes by Hydro International

Inspection chambers to be Polypipe or similar

Threshold and Channel drain by ACO or similar

Drainage Key:

- Surface Water Drainage
- Foul Water Drainage
- Perforated Pipe
- Existing SW Sewer
- Existing FW Sewer
- RWP — Rainwater Pipe
- CD — Channel Drain
- TD — Threshold Drain
- SVP / SS — Soil Vent Pipe / Stub Stack
- Filter Drain
- Permeable Paving
- Paving with Sub-Base Attenuation
- Exceednce Flow Route
- Development Baoundary

UP STREAM MH DETAILS								PIPE DETAILS			DOWN STREAM MH DETAILS			FURTHER INFORMATION
MH	CL	IL	DEPTH TO SOFFIT	MH SIZE	MH TYPE	COVER SIZE	COVER TYPE	PIPE SIZE	PIPE GRADIENT	PIPE LENGTH	D / S MH	D / S CL	D / S IL	
F1	26.840	25.854	0.836	460	PPIC	460x460	Recessed	150	80	2.50	F2	26.840	25.819	Polypipe PPIC
F2	26.840	25.819	0.871	460	PPIC	460x460	Recessed	150	80	6.20	F4	26.840	25.741	Polypipe PPIC
F3	26.940	25.940	0.850	460	PPIC	460x460	Recessed	150	-	1.70	Y-Junction to Main Drainage			Polypipe PPIC
F4	26.840	25.741	0.949	460	PPIC	460x460	Recessed	150	80	4.90	F5	26.840	25.679	Polypipe PPIC
F5	26.840	25.679	1.011	460	PPIC	460x460	Recessed	150	80	11.25	F6	26.900	25.538	Polypipe PPIC
F6	26.900	25.538	1.212	460	PPIC	460x460	Solid Cover with 350mm Reducer	150	80	20.45	F9	26.740	25.283	Polypipe PPIC
F7	26.840	26.040	0.650	460	PPIC	460 Diameter	Solid	150	-	1.30	Y-Junction to Main Drainage			Polypipe PPIC
F8	26.840	26.040	0.650	460	PPIC	460 Diameter	Solid	150	-	1.30	Y-Junction to Main Drainage			Polypipe PPIC
F9	26.74	25.283	1.307	460	PPIC	460x460	Solid Cover with 350mm Reducer	150	80	14.3	F11	26.840	25.104	Polypipe PPIC
F10	26.84	25.94	0.750	460	PPIC	460x460	Recessed and Sealed	150	8	7	F11	26.840	25.104	Polypipe PPIC
F11	26.84	25.104	1.586	460	PPIC	460x460	Solid Cover with 350mm Reducer	150	100	13.9	UU 0402	26.700	24.965	Polypipe PPIC

S1	26.840	26.233	0.457	460	PPIC	460x460	Recessed	150	80	4.57	S3	26.840	26.178	Polypipe PPIC
S2	26.840	26.263	0.427	460	PPIC	460x460	Recessed	150	80	7.00	S3	26.840	26.178	Polypipe PPIC
S3	26.840	26.178	0.512	460	PPIC	460x460	Recessed	150	80	30.70	S8	26.840	25.793	Polypipe PPIC
S4	26.840	26.140	0.550	460	PPIC	460x460	Recessed	150	3	1.50	S8	26.840	25.793	Polypipe PPIC
S5	26.840	26.188	0.502	460	PPIC	460x460	Solid	150	78	17.90	S6	26.840	25.958	Polypipe PPIC
S6	26.840	25.958	0.732	460	PPIC	460x460	Solid	150	80	11.10	S7	26.840	25.818	Silt Trap Chamber
S7	26.840	25.818	0.872	460	PPIC	460x460	Recessed	150	50	1.20	S8	26.840	25.793	Silt Trap Chamber
S8	26.840	25.793	0.897	1200	Flow Control	750x750	Recessed	150	80	13.85	UU 0401	26.650	25.620	Flow Control Chamber

REV	DATE	IN'T'L	COMMENT
RC	27.09.23	GLH	RECORD COPY ISSUED
C2	02.12.21	DM	SW RAISED, IC F6 MOVED
C1	17.11.21	DM	INVERTS AMENDED

RECORD COPY

PROPOSED DEVELOPMENT AT SLATE WHARF CASTLEFIELD FOR PRESTBURY ESTATES LTD

Scale: 1:100 @ A1
Drawn by: MDS
Date: AUG '21

Drawing No.: C13955/30

Rev: RC

BELOW GROUND DRAINAGE LAYOUT

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