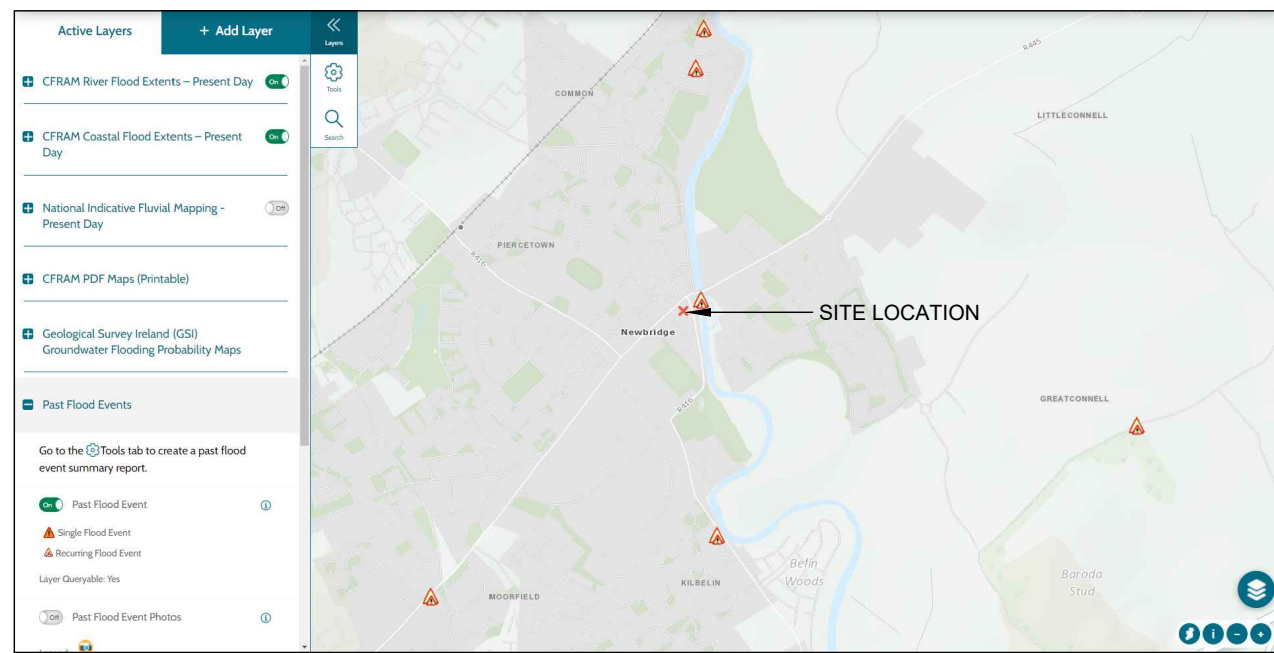
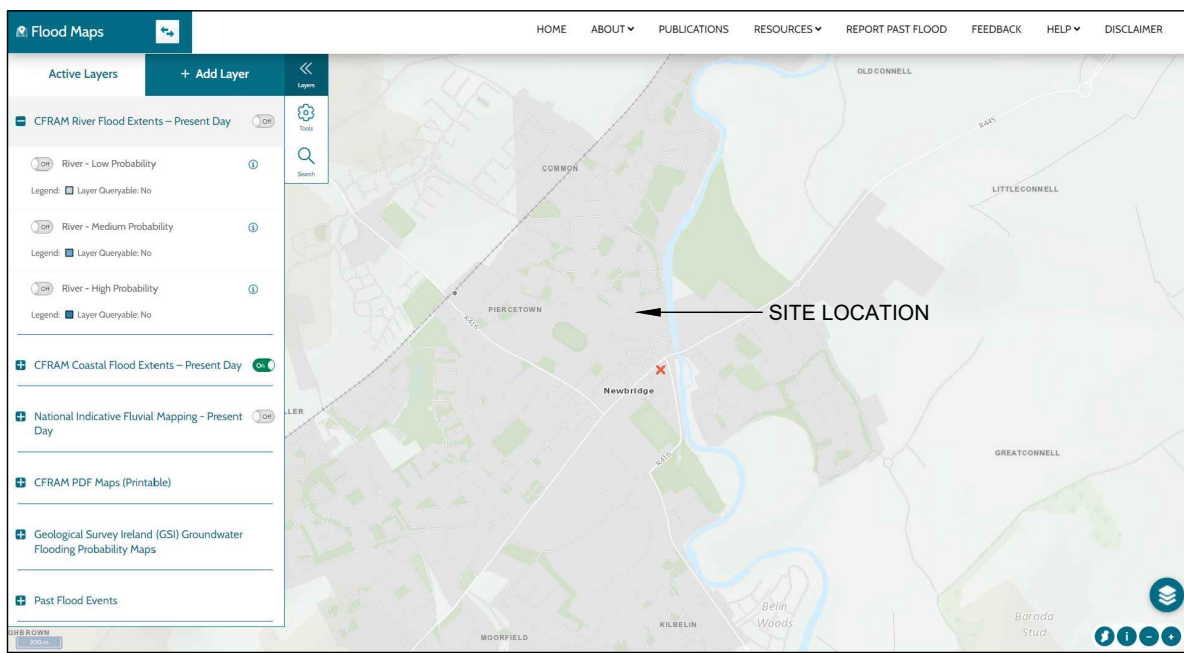
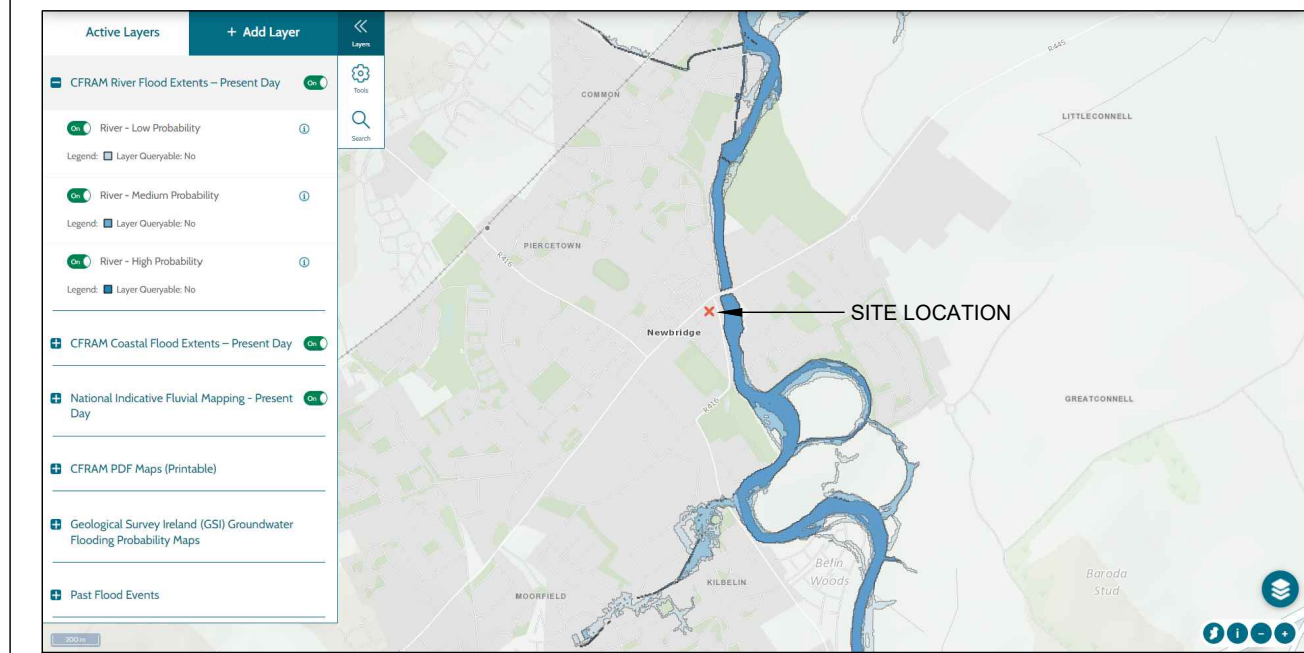
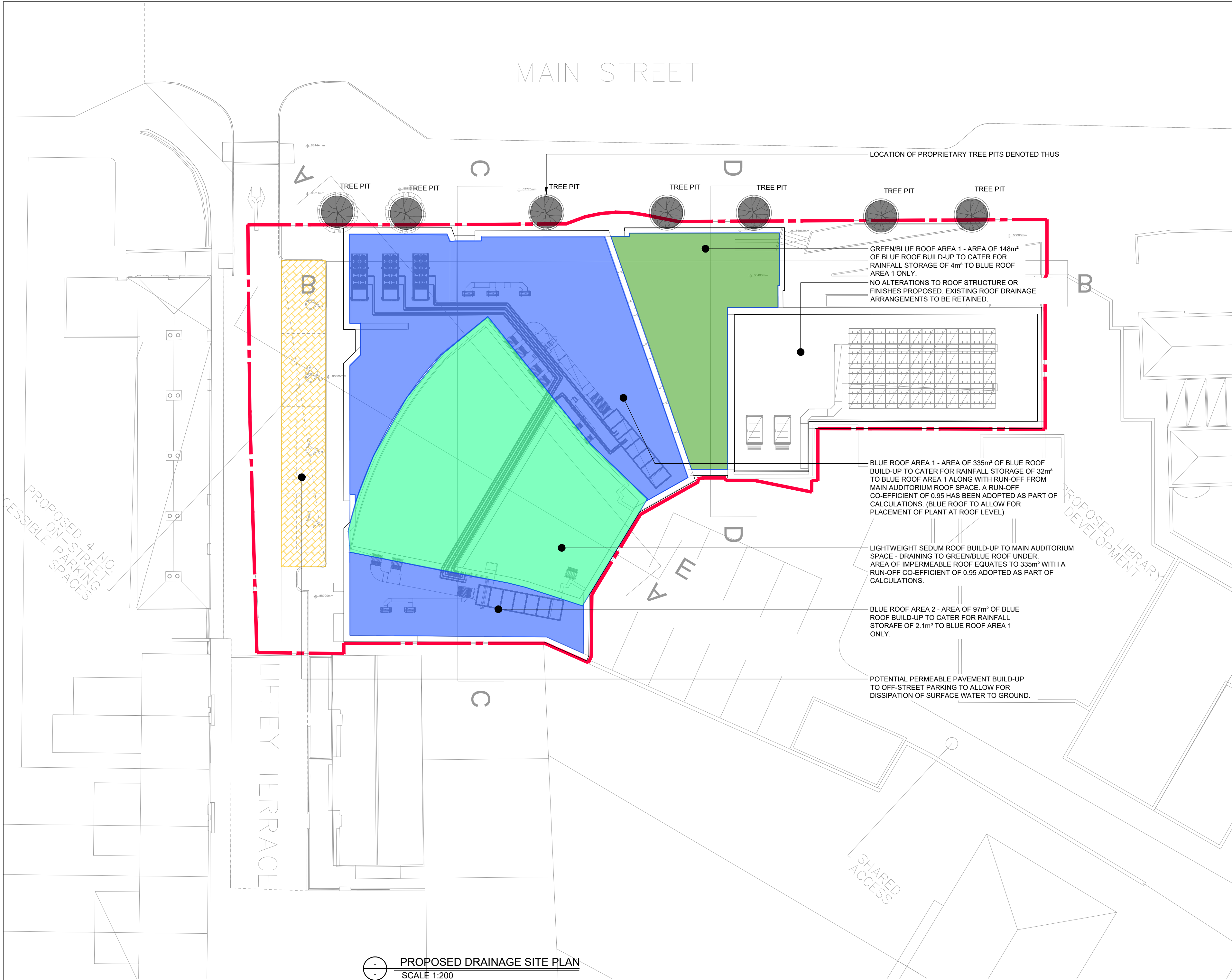




System summary



Blue Roof Pedestal System

BauderBLUE STORMvoid paving on pedestals

The BauderBLUE STORMvoid is a simple blue roof solution with paving or decking to finish. The Bauder pedestal system forms a void that can be used to attenuate water and incorporates the BauderBLUE ST adjustable flow restrictor to give precise discharge rates from the roof. The system can use any of the Bauder pedestal systems: Slope Correcting (DPH) Pedestal; Non-Combustible (NC) Pedestal; or Adjustable (PB) Pedestal.

Function	Product name	Thickness (mm)	Weight (kg/m²)	Indicative pedestal blue roof system
1	Paving Layer	Typically 50mm	80	
2	Bauder Pedestal System DPH, PB or NC	Height varies 17 to 1070	0.64 to 15.88 per m²	
3	Underlying Waterproofing system	Not included	Not included	
4	Flow Restrictor	ST flow restrictor and overflow	N/A	
System build-up (saturated)		25-120	Varies	

Please note: This system should not be used as part of an inverted blue roof system due to the additional ballast that may be required.

Bauder blue roof systems require bespoke flow rate calculations please contact our technical department.

Please note: Blue roof require careful design, the underlying deck must be designed to carry falls with no back falls away from outlets as per BS1552.

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BLUE ROOF BUILD-UP

NOT TO SCALE

BauderBLUE STORMcell Biodiverse Green Roof

This specific type of biodiverse (or brown roof) is designed to incorporate as many types of habitat as possible giving a home and food source to invertebrates and pollinators which in turn are food for many birds and bat species. The roof is typically sown or plug planted with a broad range of plant species. Additional habitat features such as dead wood, stone/sand piles and dew ponds can also be incorporated into the design.

Product	Description	Thickness	Saturated weight
1 Vegetation *	Typically Bauder's range of native seed and plug mixes are used in combination with other habitat features.	Thickness and weight varies with season	
2 SUB-BM UK biodegradable substrate	Bauder's SUB-BM UK is a lightweight growing medium. Tested to BS 8664 and designed to meet ISO and FLL guidelines, these are usually contoured.	Varies typically 100-150mm	120-180 kg/m²
3 SV 125 100 filter fleece	Filtration layer that prevents substrate fines from washing into the drainage and water storage layer.	1mm	0.13kg/m²
4 DSE 40 drainage layer	DSE 40 is a 40mm drainage board, holding 13.5 ltr/m². The light weight board is made from 100% recycled HDPE.	40mm	15.3kg/m² (water filled)
5 RWR 100 blue roof attenuation cell	A high strength void element which is 95%+ void (holding up to 1mm per m²).	100mm	8.66kg/m²
6 FSM 600 protection layer	Polyester and polypropylene fibre mix protection layer to prevent mechanical damage to the underlying waterproofing.	4mm	3.46kg/m²
7 Bauder's underlying waterproofing system	Bauder's BTRES & BTRES PLUS Bituminous Membrane or Bauder Hot Melt bituminous waterproofing system.	N/A	N/A
8 ST-B or ST-M flow restrictor	A combined restrictor plate and overflow, enabling discharge flow rates to be matched to SuDS requirements.	N/A	N/A

Please note: All green roofs require water during times of drought. Bauder recommends that the watering and maintenance of this roof is considered and addressed during its design.

Where to specify: Primarily used when Biodiversity and habitat creation are the primary goals, such as for BREAM or to comply with a local planning requirement.

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GREEN/BLUE ROOF BUILD-UP

NOT TO SCALE

PROPOSED DRAINAGE SITE PLAN

SCALE 1:200

FLUVIAL FLOOD RECORDS - 0.1% AEP

COASTAL FLOOD RECORDS - 0.1% AEP

NOT TO SCALE

OPW HISTORIC FLOODING RECORDS

NOT TO SCALE

Notes

Drawn by: JP	Checked by: JP	Approved by: JP	Date: 28-11-2022		
Project Name: RIVERBANK ARTS THEATRE	Scale: 1:200 @ A1	Project Number: 2218	Originator: CORA		
Drawing Title: DRAINAGE - SuDS LAYOUT GENERAL ARRANGEMENT	Project:	Originator: CORA	Zone:	Level:	Type: DR
		Discipline: C	Drawing No: 02	Stage: P	Revision: 01

DRAINAGE LEGEND

CS	CS	COMBINED SEWER (EXISTING)
CS	CS	COMBINED SEWER (NEW)
FS	FS	FOUL SEWER (EXISTING)
FS	FS	FOUL SEWER (NEW)
FS	FS	FOUL SEWER (SLUNG FROM GROUND FLOOR SLAB)
SW	SW	SURFACE WATER SEWER (EXISTING)
SW	SW	SURFACE WATER SEWER (NEW)
SW	SW	SURFACE WATER (SLUNG FROM GROUND FLOOR SLAB)
SW	SW	SURFACE WATER LAND DRAIN AT TREE PIT
SW	SW	GREY WATER SEWER (EXISTING)
SW	SW	GREY WATER SEWER (NEW)
FS	FS	FOUL SEWER RISING MAIN
SW	SW	SURFACE WATER SEWER TO BE GRUBBED UP
SW	SW	EXISTING WATER MAIN
SW	SW	EXISTING SEWER TO BE DECOMMISSIONED
SW	SW	EXISTING WATER MAIN
SW	SW	PROPOSED WATER MAIN
SW	SW	PROPOSED FLOOD PIPES
EX CSMH / IC		EXISTING COMBINED SEWER MANHOLE / INSPECTION CHAMBER
EX FSMH / IC		EXISTING FOUL SEWER MANHOLE / INSPECTION CHAMBER
EX SWMH / IC		EXISTING SURFACE WATER MANHOLE / INSPECTION CHAMBER
EX MH / IC		EXISTING MANHOLE / INSPECTION CHAMBER TO BE DEMOLISHED
CSMH / IC		NEW COMBINED SEWER MANHOLE / INSPECTION CHAMBER
FSMH / IC		NEW FOUL SEWER MANHOLE / INSPECTION CHAMBER
SWMH / IC		NEW SURFACE WATER MANHOLE / INSPECTION CHAMBER
EX FSAJ		EXISTING FOUL SEWER ACCESS JUNCTION
EX SWAJ		EXISTING SURFACE WATER ACCESS JUNCTION
EX AJ		EXISTING ACCESS JUNCTION TO BE DEMOLISHED
FSAJ		NEW FOUL SEWER ACCESS JUNCTION
SWAJ		NEW SURFACE WATER ACCESS JUNCTION
EX SVP		EXISTING SOIL VENT PIPE
EX SVP		EXISTING SOIL VENT PIPE TO BE DEMOLISHED
SVP		NEW SOIL VENT PIPE
EX PU		EXISTING POP-UP
EX PU		EXISTING POP-UP TO BE DEMOLISHED
PU		NEW POP-UP
EX RWP		EXISTING RAIN WATER DOWN PIPE
EX RWP		EXISTING POP-UP TO BE DEMOLISHED
RWP		NEW POP-UP
EX GT		EXISTING GULLY TRAP
GT		NEW GULLY TRAP
EX BIGT		EXISTING BACK INLET GULLY TRAP
BIGT		NEW BACK INLET GULLY TRAP
EX FG		EXISTING FLOOR GULLY
FG		NEW FLOOR GULLY
ACO		NEW ACO DRAIN
		NEW FIRE HYDRANT
S.V.		NEW SLUICE VALVE
A.V.		NEW AIR VALVE
		NEW WASHOUT HYDRANT
Me		NEW METER

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