

Appendix A

TOPOGRAPHIC LEGEND			
	Barrier (symbol - sized)		Pipe into Ground (symbol)
	Belted Road (symbol)		Post (symbol)
	Ballast (symbol)		Rain Water Pipe (symbol)
	Borehole (symbol)		Road Sign (symbol)
	British Telecom (symbol)		Reading Eye (symbol)
	BTC		Sailing (symbol)
	Building (interior details)		Sign Post (symbol)
	Cable into Ground (symbol)		Spot Light (symbol)
	Cable TV Box (symbol)		Spot Height
	CCCTV Camera (symbol)		Stop Cook (level in metres)
	Cover Level in metres		Stone Wall (symbol)
	Drain of Flow (drains)		Survey Station (symbol)
	Distribution Board (symbol)		Telephone Pole (symbol)
	Earth Rod (symbol)		Traffic Ballot (symbol)
	Electric Cable (symbol)		
	Electric Pole (symbol)		Tree (dimension in metres - e.g 3')
	Flood Light (symbol)		Trench at 10m depth
	Gas Valve (symbol)		Height marker
	Gate		HTL
	Ground Level in metres		LUP
	Gully (level in metres)		MWP
	Inspection Cover (sized)		NWS
	Inset Level in metres		OWW
	Junction Box - RT (sized)		Paving
	Junction Box - Comm (sized)		Ramp
	Junction Box - Lamp (sized)		Roof Drain
	Light Mould (symbol)		Shallow Pond (level in metres)
	Light in ground (symbol)		Shrub (level in metres)
	Manhole (sized)		Small Pond (level in metres)
	Marking (symbol)		Solid Pond (level in metres)
	Manhole Capped Port		Spillway (level in metres)
	Plungest Level (m)		Staircase
	Pipe Curvature (mm)		Subsoil
	F 100		Trench at 10m depth
			Traffic Light (symbol)
			Unknown Vehicle (symbol)
			Wall
			Waste Pipe (symbol)
			Water Meter (symbol)
			Water Valve (symbol)
			Wharf Building
			Zoo Barrier
			Drop Rail (level in metres)
			Footpath (level in metres)
			Force Fence
			Karl's Pond (level in metres)
			Overhead Service Line
			Production Railing

UTILITY LINES/TYPES		UTILITY LEGEND	
	British Telecom		Gas
	Cable Television		Hot Heating Pipes
	Cable Coaxial Television		HV Cables
	Communications		Multiple Services Route
	Cable Optical		Oxygen
	Drainage - Combined Water		Cable Valves
	Drainage - Storm Water		Traffic Signal Loop
	Empty Duct		Unknown Bound by GPR
	Electric		Unknown
	Fire Hydrant Fuel		Unknown Cable
	Fuel		Unknown Positive
	Absorbed Service Routes		Water
(Assumed service routes and other as above)			ASR-XXX XXX-XXX

UTILITY SURVEY INFORMATION	
	Area of Concern
	Previous Survey Area
	Ground Penetrating Radar
	Depth to Top of Service (in)
UTS Unable to Survey	
UTL Unable to Lift (cover)	
ILD Unable to Trace	
IBD Unable to Trace (due to topology)	
IRB Unable to Trace Further	

(0.65d BPD) 0.65d = Depth in metres, B.D. = Quality Level, P = Past processed GPR

GENERAL NOTES

Respectful of the information provided by a utility survey and statutory plans, excavation work should be undertaken with extreme caution and in accordance with HSE Guidelines - HS647 Avoiding Danger from Underground Services

Only sub-surface utility information is provided. Above ground utility information may be shown where it assists with positional referencing.

Utilities may continue outside of the survey area. Any point marks outside of the area are for investigative purposes only and may not represent the full extent of the sub-surface utilities.

Where logic indicates a utility exists but which cannot be positively confirmed with the technology, an assumed route (ASR) is recorded. All assumed service routes (ASR) have been highlighted with a background yellow colour for visual enhancement.

Sever and manhole details shown on this drawing have been obtained by observation and measurement from the surface and as such cannot be guaranteed.

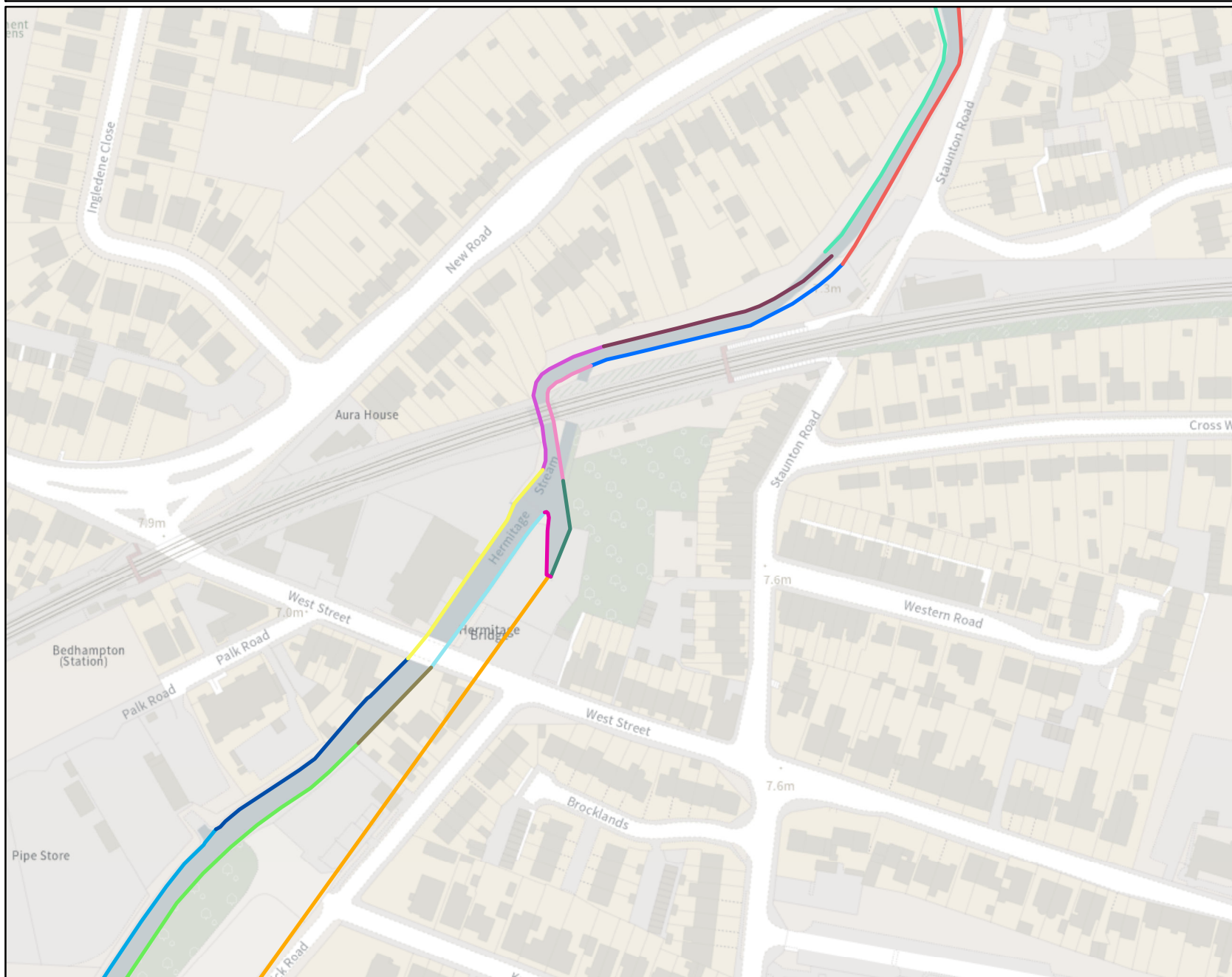
Vertical & Horizontal Position Vertical position (depth) is indicative to the top of the utility/liftline and is recorded as [x,y,z] i.e. (1.250) - depth to top of service and should not be taken as exact, as this could be the surround to the device rather than the service itself. Where depth information from the technology is unclear, depth is not shown. Drains and pipeworks may have been detected using threading and the depth indicated could be between the top (surface) and the bottom (invert). Horizontal position is indicative to the centre of the utility/liftline and should not be taken as exact.

Warnings: Biodegradable paints are used to mark-out the position of the utilities. Markings may become illegible quickly depending on ground, weather and traffic conditions. No warranty is given in respect of the durability of the paint markings and that they are a complete representation of the sub-surface utilities, therefore, this drawing should be used as the primary reference for the survey results.

This drawing does not provide an absolute representation of the sub-surface. Utilities have been detected using non-invasive technologies only and the performance can be adversely affected by ground, weather and site conditions outside of SUMO's control, therefore, some utilities may be undetectable. While SUMO uses reasonable endeavours to detect all utilities, it does not warrant that 100% detection will be achieved and that approximate depth penetration of the technologies SUMO uses will not be greater than two metres.

Appendix B

Defences Centred on West Stret - Created 1 February 2023



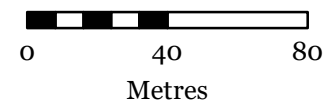
Legend

asset_id

- 18776
- 18811
- 18812
- 19263
- 23008
- 23009
- 23010
- 23011
- 29230
- 29231
- 49480
- 49481
- 19261
- 22927
- 127046

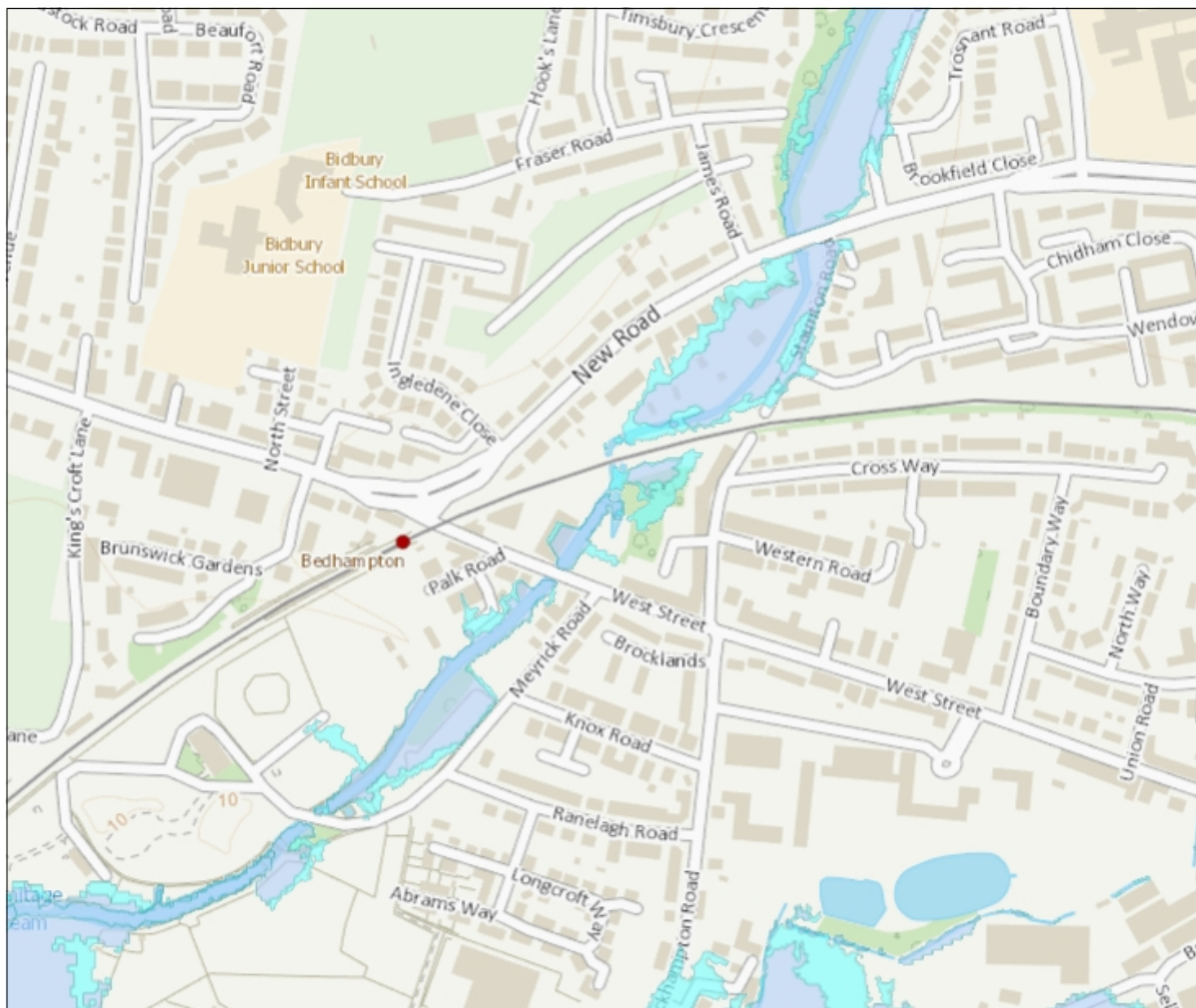
1:2,160 *

*when printed at A4.



Asset ID	Asset sub-type	Length	Maintainer	Current condition	Standard of Protection	Date of last inspection
18776	Engineered High Ground	106.84	Environment Agency	Fair	1:40	30/09/2022
18810	Engineered High Ground	338.76	Environment Agency	Fair	1:40	28/09/2022
18811	Engineered High Ground	64.97	Environment Agency	Fair	1:40	30/09/2022
18812	Engineered High Ground	166.67	Environment Agency	Fair	1:40	30/09/2022
18875	Engineered High Ground	312.5	Environment Agency	Fair	1:40	28/09/2022
19263	Natural High Ground	100.16	Environment Agency	Fair	1:100	29/09/2022
23008	Engineered High Ground	79.09	Environment Agency	Fair	1:100	29/09/2022
23009	Engineered High Ground	54.91	Environment Agency	Fair	1:40	30/09/2022
23010	Engineered High Ground	128.06	Environment Agency	Fair	1:40	30/09/2022
23011	Engineered High Ground	89.83	Environment Agency	Fair	100	29/09/2022
29230	Engineered High Ground	38.73	Environment Agency	Fair	1:5	30/09/2022
29231	Engineered High Ground	27.29	Environment Agency	Fair	1:5	30/09/2022
49480	Natural High Ground	40.57	Environment Agency	Good	1:100	29/09/2022
49481	Engineered High Ground	96.49	Environment Agency	Fair	1:40	30/09/2022
19261	Natural High Ground	230.95	Private individual, Company or Charity		100	29/09/2022
22927	Natural High Ground	174.59	Private individual, Company or Charity		100	29/09/2022
127046	Simple Culvert	953.18	Environment Agency	Fair	1:5	30/09/2022

Flood Map for Planning (Rivers and Sea) Centred on West Street - Created 2 February 2023



1: 5,000
0 Metres 125



Flood Map for Planning (Rivers & Sea)

- Defences
- Flood Storage Areas
- Flood Zone 3
- Flood Zone 2

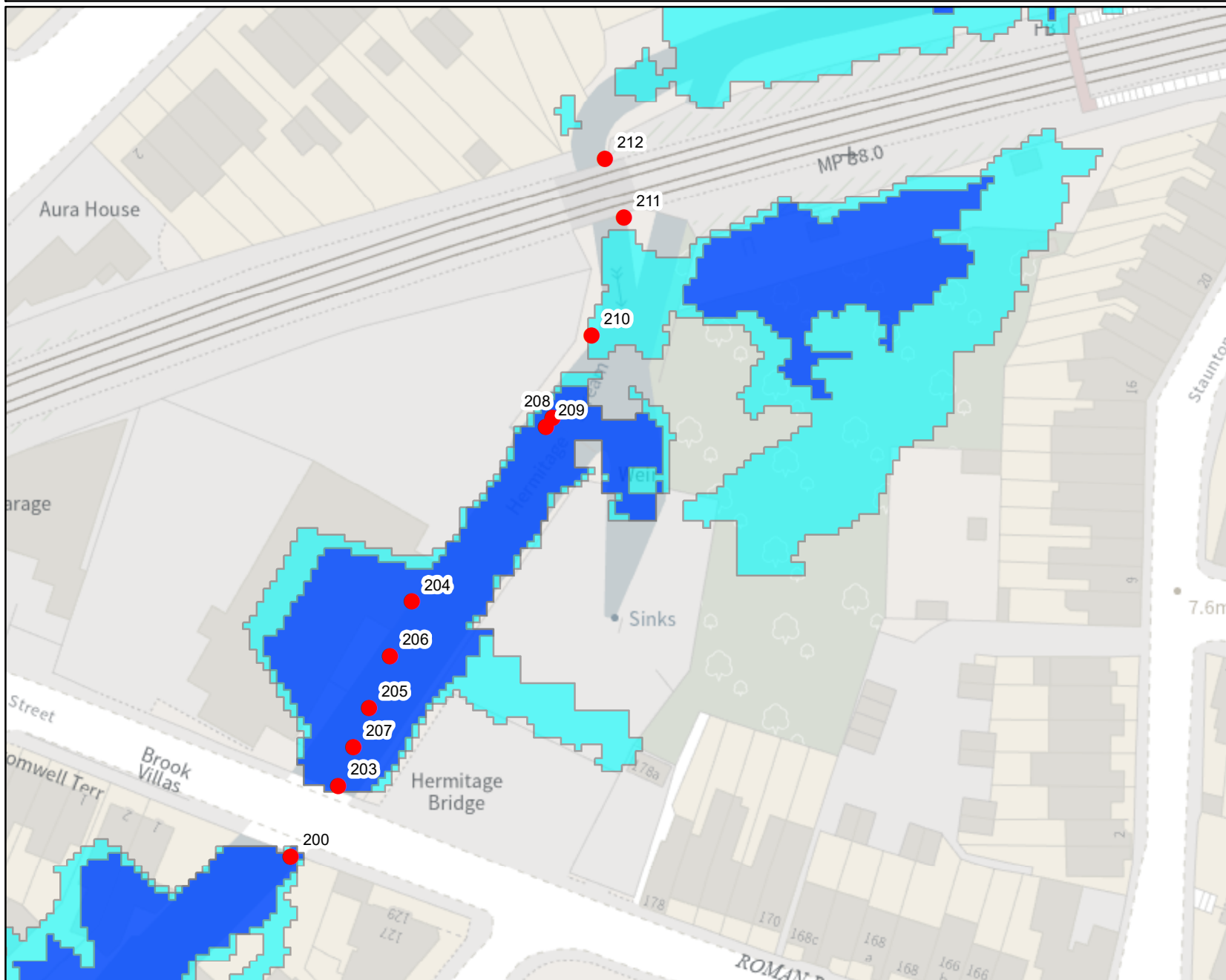
Flood Map Areas (assuming no defences)

Flood Zone 3 shows the area that could be affected by flooding:

- from the sea with a 1 in 200 or greater chance of happening each year
- or from a river with a 1 in 100 or greater chance of happening each year.

Flood Zone 2 shows the extent of an extreme flood from rivers or the sea with up to a 1 in 1000 chance of occurring each year.

1D Modelled Flood Levels Centred on West Stret - Created 1 February 2023

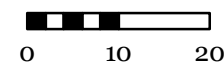


Legend

- Lavant & Hermitage 1D Levels
- Lavant & Hermitage 100Yr (Flood Zone 3)
- Lavant & Hermitage 1000Yr (Flood Zone 2)

1:830 *

*when printed at A4.



Metres



Flood Levels For West Street

ID	EASTING	NORTHING	100 Year Level	100 Year Level No Dam	1000 Year Level	1000 Year Level No Dam
200	470875	106501	6.20	15.66	6.45	23.61
203	470882	106511	6.25	15.66	6.63	23.60
204	470892	106539	6.31	15.66	6.74	23.60
205	470886	106523	6.23	15.66	6.61	23.60
206	470889	106531	6.26	15.66	6.67	23.60
207	470884	106517	6.23	15.66	6.61	23.60
208	470913	106566	6.40	24.64	6.80	33.41
209	470912	106564	6.38	15.66	6.79	23.60
210	470919	106578	6.34	24.64	6.77	33.41
211	470924	106595	6.36	24.64	6.70	33.41
212	470921	106604	6.59	24.64	7.06	33.41

* Levels in metres above Ordnance Datum Newlyn



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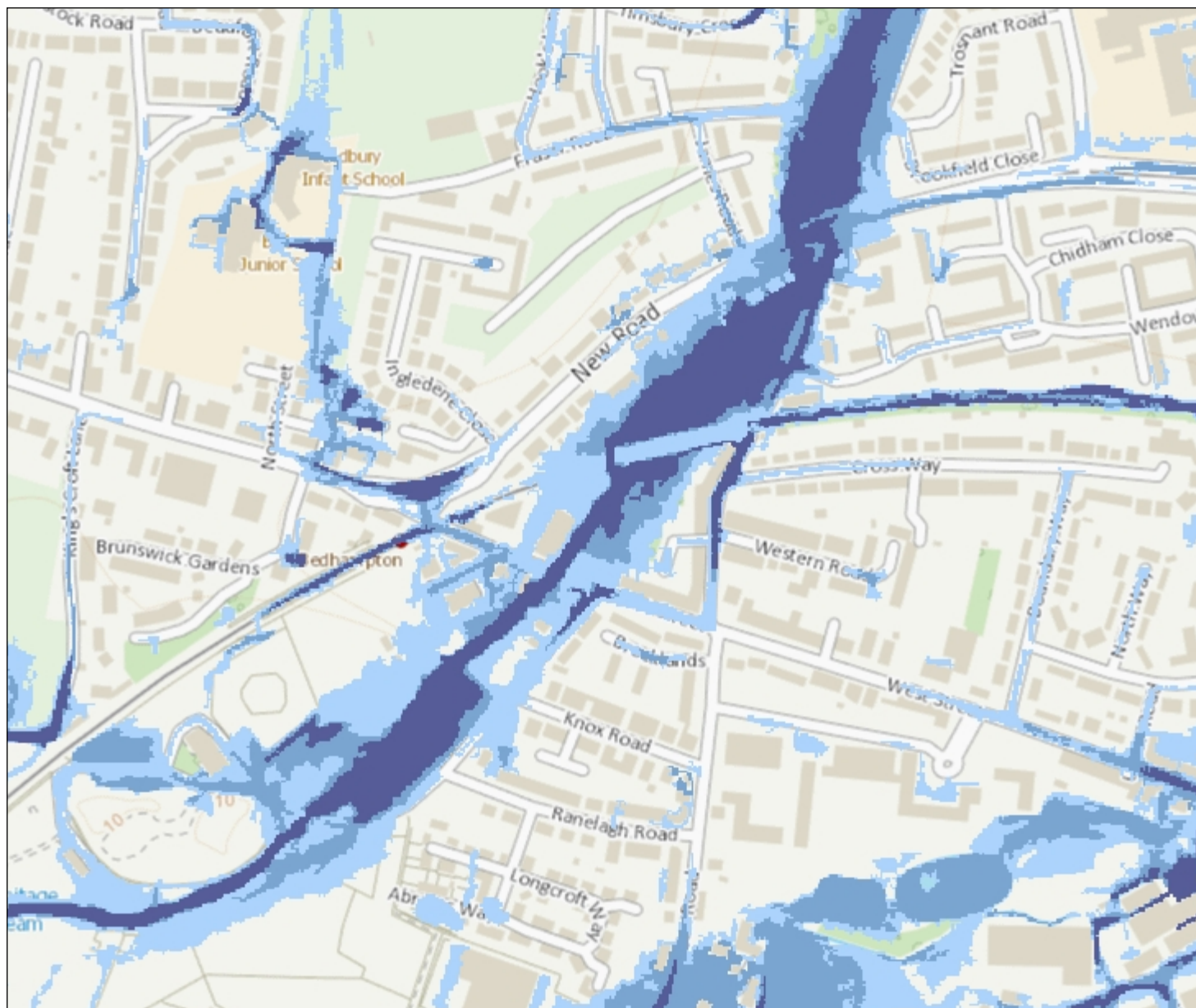


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[Go to the version 2 of the licence.](#)

[Go to the Welsh version of the licence.](#)

Risk of flooding from Surface Water Centred on West Street - Created 2 February 2023



1: 5,000

0 Metres 125



Likelihood of flooding from Surface Water

- High ($\geq 3.3\%$)
- Medium (3.3% - 1%)
- Low (1% - 0.1%)
- Very Low
- Flood Extent 1 in 30
- Flood Extent 1 in 100
- Flood Extent 1 in 1000

Likelihood of flooding from Surface Water

- High: Greater than or equal to 3.3% (1 in 30) chance in any given year
- Medium: Less than 3.3% (1 in 30) but greater than or equal to 1% (1 in 100) chance in any given year
- Low: Less than 1% (1 in 100) but greater than or equal to 0.1% (1 in 1,000) chance in any given year
- Very Low: Less than 0.1% (1 in 1,000) chance in any given year

This information is shown on the Risk of Flooding from Surface Water map on GOV.UK.

Use of Environment Agency Information for Flood Risk Assessments

Important

The Environment Agency are keen to work with partners to enable development which is resilient to flooding for its lifetime and provides wider benefits to communities. If you have requested this information to help inform a development proposal, then we recommend engaging with us as early as possible by using the pre-application form available from our website:

<https://www.gov.uk/government/publications/pre-planning-application-enquiry-form-preliminary-opinion>

We recognise the value of early engagement in development planning decisions. This allows complex issues to be discussed, innovative solutions to be developed that both enables new development and protects existing communities. Such engagement can often avoid delays in the planning process following planning application submission, by reaching agreements up-front. We offer a charged pre-application advice service for applicants who wish to discuss a development proposal.

We can also provide a preliminary opinion for free which will identify environmental constraints related to our responsibilities including flooding, waste, land contamination, water quality, biodiversity, navigation, pollution, water resources, foul drainage or Environmental Impact Assessment.

In preparing your planning application submission, you should refer to the Environment Agency's Flood Risk Standing Advice and the Planning Practice Guidance for information about what flood risk assessment is needed for new development in the different Flood Zones. This information can be accessed via:

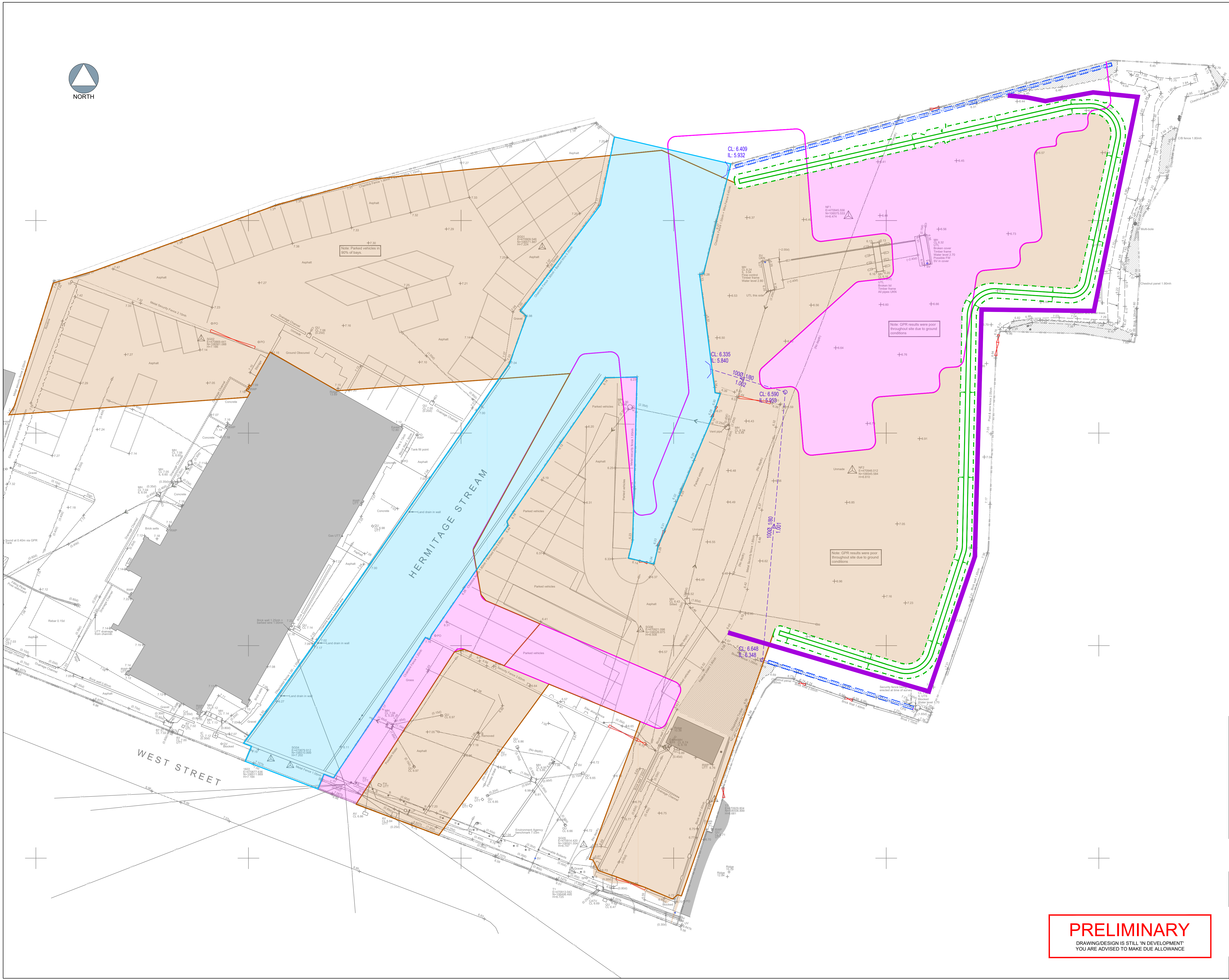
<https://www.gov.uk/flood-risk-assessment-standing-advice>
<http://planningguidance.planningportal.gov.uk/>

You should also consult the Strategic Flood Risk Assessment or other relevant materials produced by your local planning authority.

You should note that:

1. Information supplied by the Environment Agency may be used to assist in producing a Flood Risk Assessment (FRA) where one is required, but does not constitute such an assessment on its own.
2. This information covers flood risk from main rivers and the sea, and you will need to consider other potential sources of flooding, such as groundwater or surface water runoff. Information produced by the local planning authority referred to above may assist here.
3. Where a planning application requires an FRA and this is not submitted or is deficient, the Environment Agency may raise an objection.

Appendix C



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In preparing the design shown on this and related drawings Paul Basham Associates has considered and, where reasonably practicable, eliminated foreseeable risks. Any further abnormal or unusual risks, which remain, are numbered below and identified thus Δ and should be given particular attention by all those carrying out construction or of future maintenance works.

1. Uneven ground in areas of pre-existing bund
2. Excavation of ditch
3. Operating machinery to create proposed bund

- 1000 1/80 PROPOSED SURFACE
- DRAINAGE TRENCH
- EXISTING FENCE LINE
- PROPOSED BUND
- ENVIRONMENTAL AGENCY FLOOD ZONE 2/3 BOUNDARY
- NEW FLOOD ZONE 2/3 BOUNDARY (WITH RAISED LEVELS)
- HERMITAGE STREAM

1:200 0m 10m

P03	BUND MOVED INSIDE FENCELINE	27.04.2023	OT	NH
P02	NEW FLOOD BOUNDARY ADDED	24.04.2023	OT	RW
P01	FIRST ISSUE	04.04.2023	OT	RW

Rev	Description	Date	By	App'd
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Client

BOYLE AND SUMMERS

Project Name

WEST STREET, HAVANT

Title

DRAINAGE STRATEGY

Project Phase

PRELIMINARY

Date Created	Drawn By	Approved By	Suitability Code
04.04.2023	OT	RW	-
PBA Project Number	Scale	(AT A1)	
192.5007	1:200		
PBA Drawing No:	Revision		
192.5007-0501	P03		

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