



MALMESBURY  
TOWN COUNCIL

# Community-led Flood Alleviation Scheme



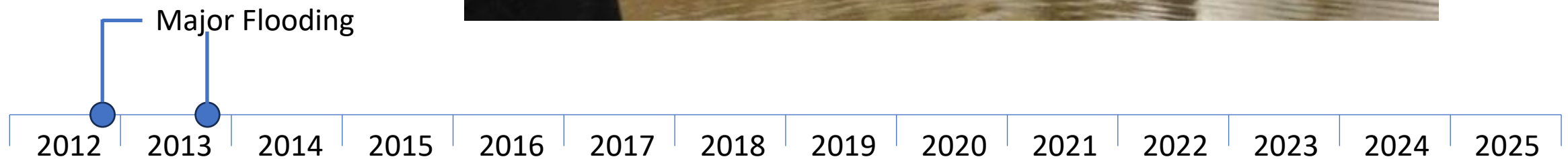


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# Timeline





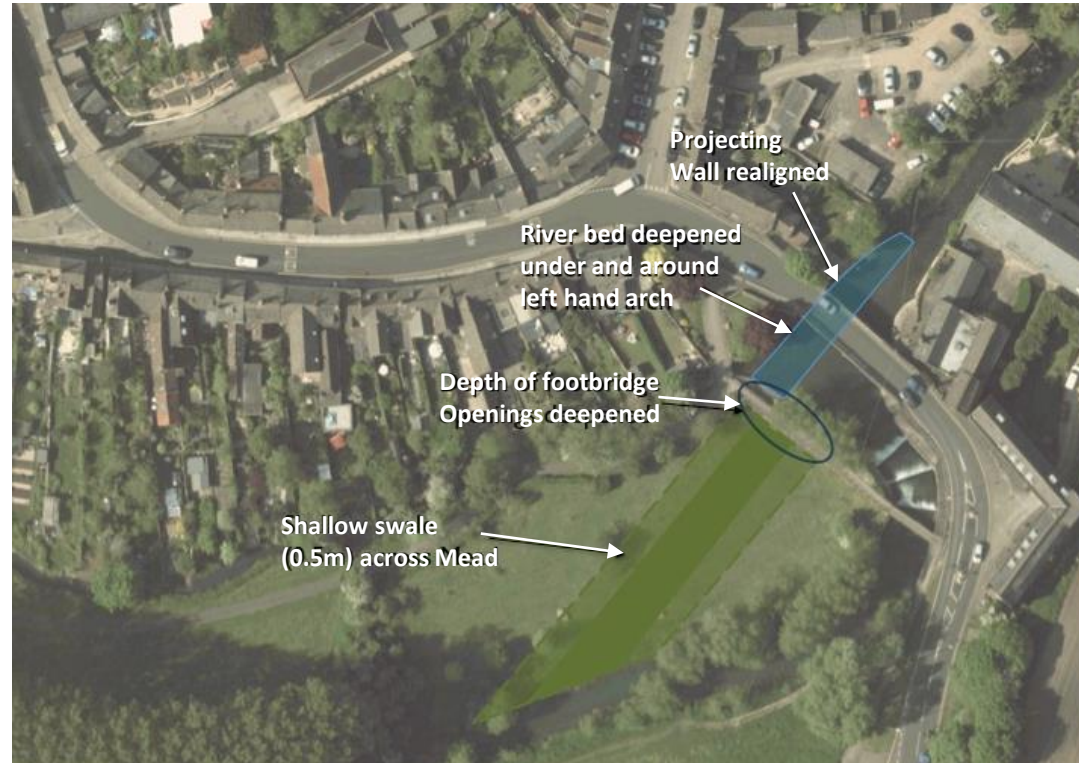
# Timeline







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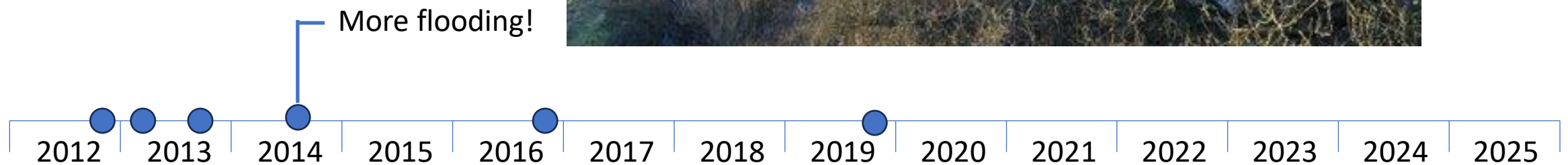


Short term works carried out by FWG, MTC and Wilts Council





# Timeline



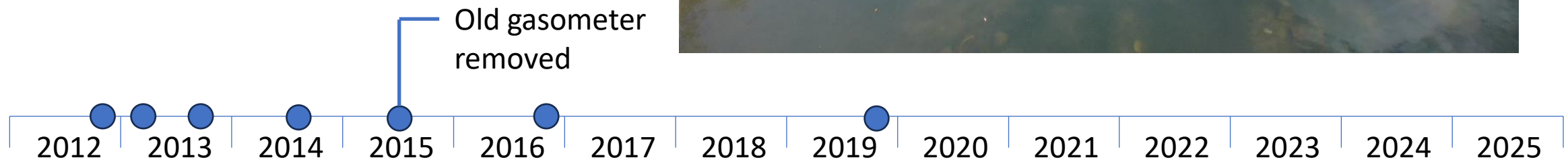




# Timeline

Old gasometer removed  
to improve flow within  
channel

This scheme was part of  
the ongoing commitment  
to reduce flood risk





# Timeline

Report conclusion was that no permanent scheme viable, but suggestion that Community-led scheme might be considered

Flood Working Group (FWG) working with the EA and Wilts Council start work on Community-led scheme

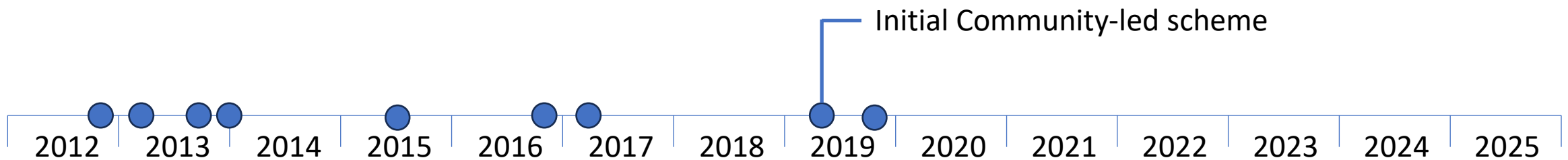






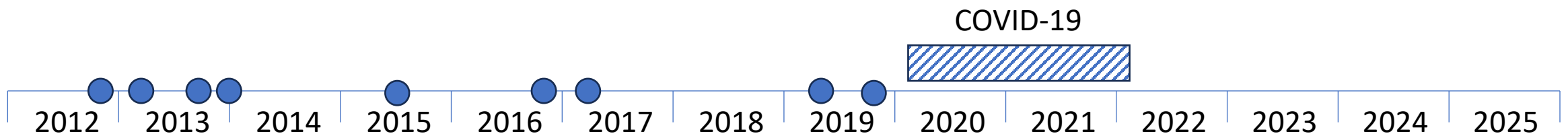
# Timeline

Scheme presented to Malmesbury Town Council  
Funding commitment to support scheme





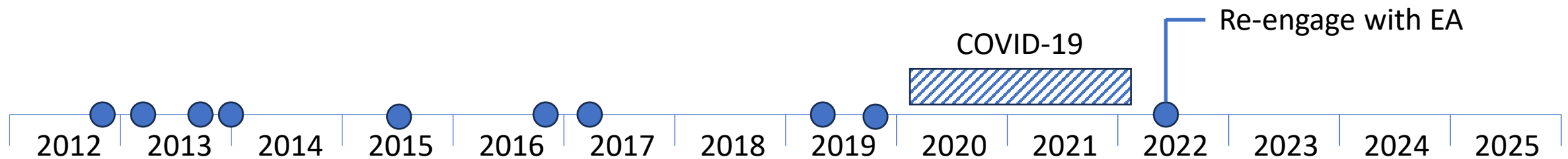
# Timeline





# Timeline

Additional modelling work  
required to verify scheme





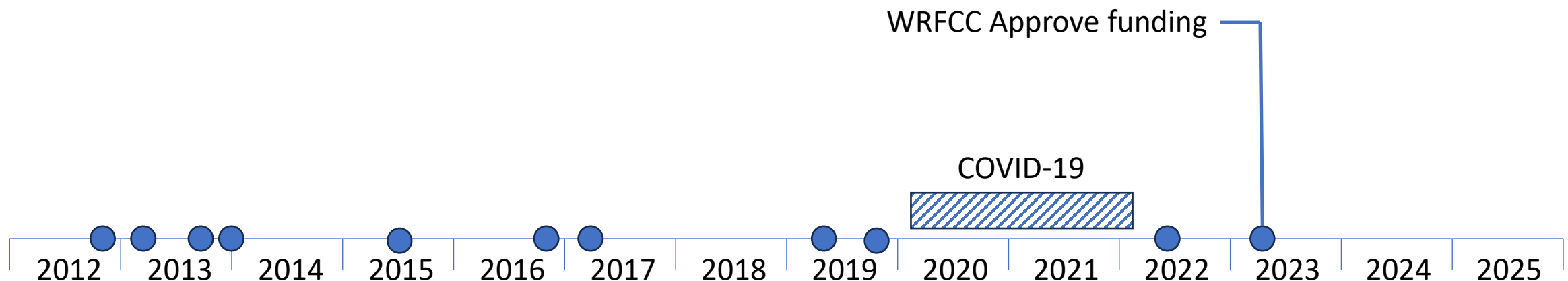


# Timeline

Wessex Regional Flood and Coastal Committee (WRFCC)  
approve £50k EA Local Levy funding for additional modelling

Provisional approval for £550k development funding,  
pending Outline Business case approval

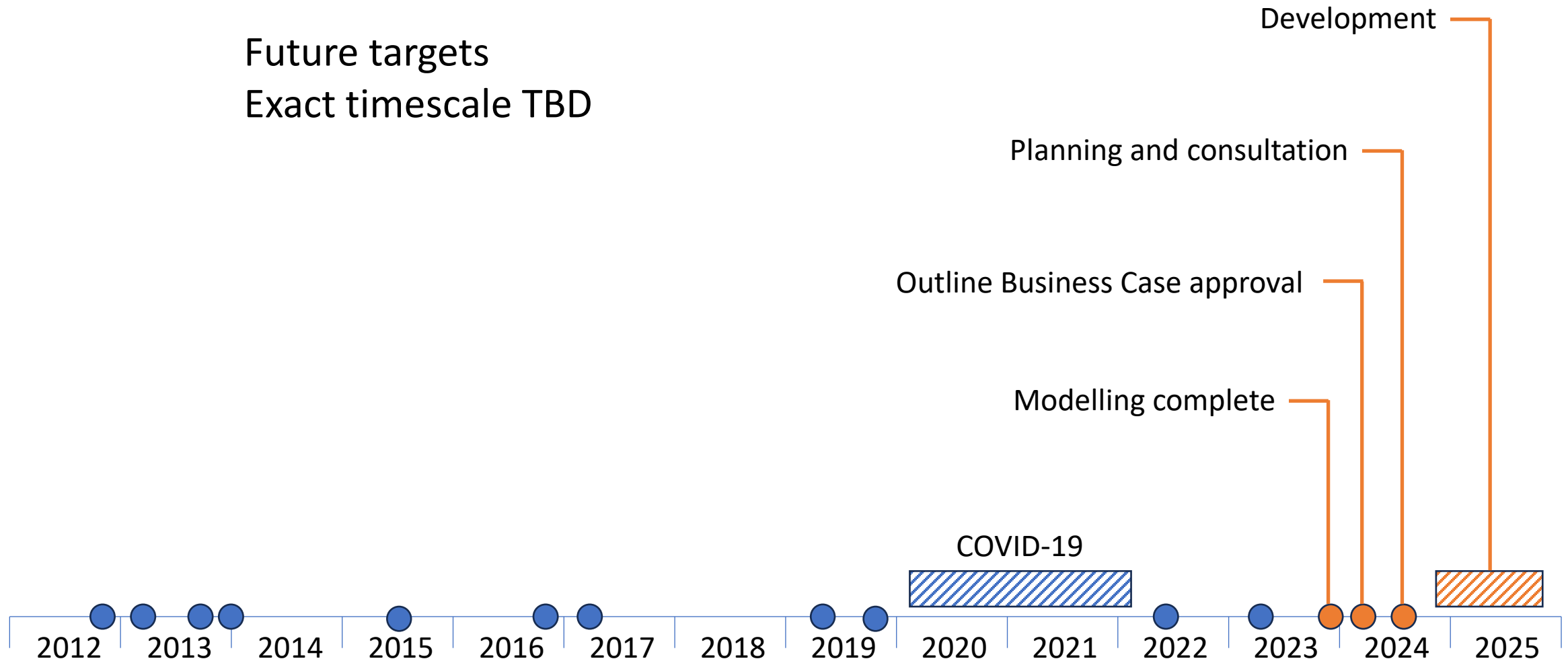
Transfer of project to WC





# Timeline

Future targets  
Exact timescale TBD



# Flood Alleviation Scheme



## Historic Flooding

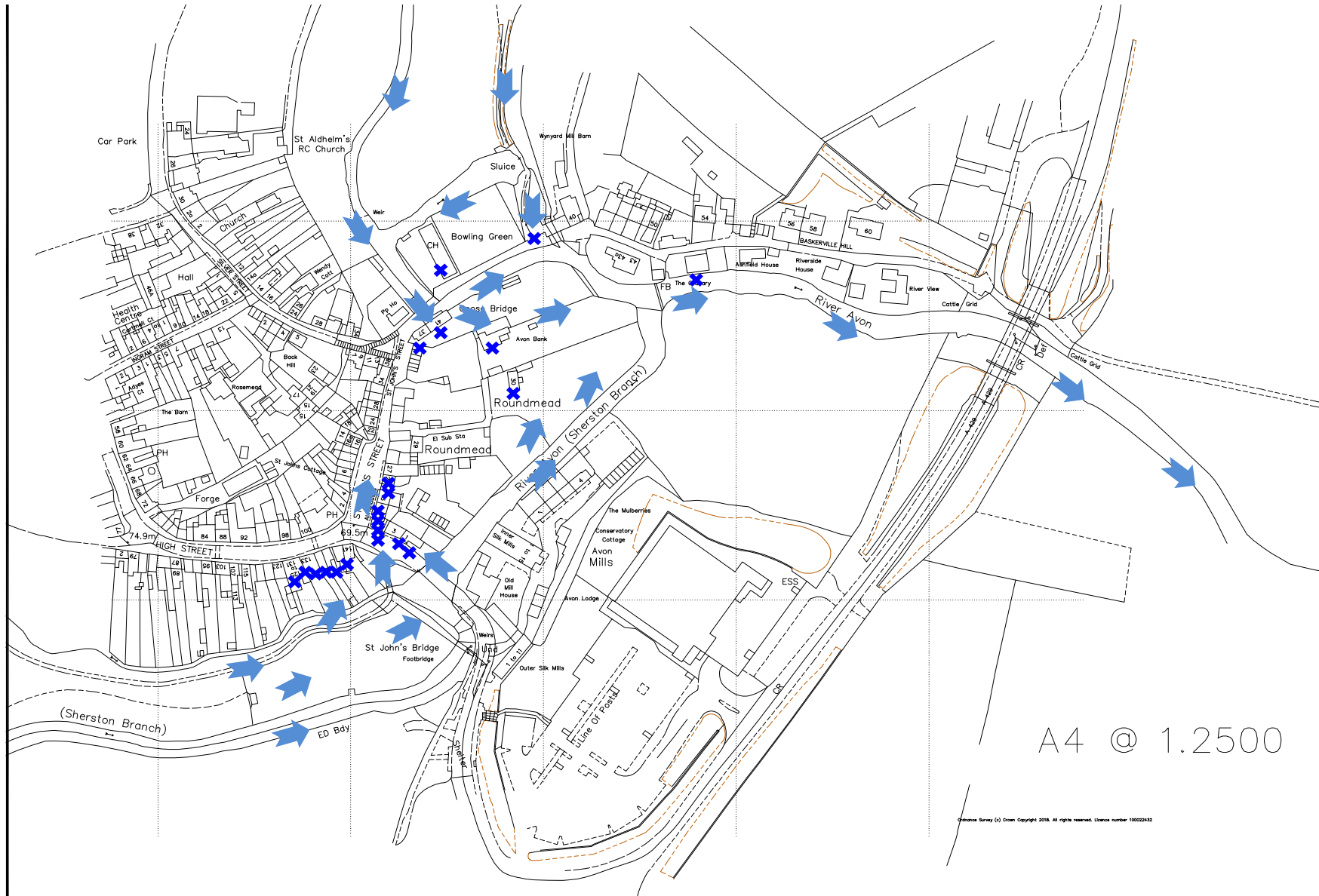
Date	Description	Data source
1880, 1882, 1916, August 1917, 1924	-	Charles Vernon (2014, pers. comm.)
January 1925	-	Lewin, Fryer and Partners (2002) and the Environment Agency's Recorded Flood Outlines
December 1925	Railway Hotel, Duke of York and Gasworks affected	Charles Vernon (2014, pers. comm.)
1928, November 1929, 1931	-	
1-3 May 1932	-	Lewin, Fryer and Partners (2002) and the Environment Agency's Recorded Flood Outlines
1946	-	Charles Vernon (2014, pers. comm.)
1947	17 houses near Town Bridge affected	
1954	Duke of York and St. John's Street	
December 1959	-	
1960	-	Lewin, Fryer and Partners (2002) and the Environment Agency's Recorded Flood Outlines
November 1963	-	Charles Vernon (2014, pers. comm.)
15-18 December 1965	-	Lewin, Fryer and Partners (2002) and the Environment Agency's Recorded Flood Outlines
1967	-	Charles Vernon (2014, pers. comm.)
July 1968	30 houses in and around Lower High Street affected; flood fund opened	
1969	-	
February 1971	Heavy snow followed by incessant rain caused widespread flooding; football field "feet under water"	
1974	-	Lewin, Fryer and Partners (2002) and the Environment Agency's Recorded Flood Outlines
November 1977	Low lying gardens in Burnivale flooded	Charles Vernon (2014, pers. comm.)
May 1979	Heavy rain floods 10 houses in Lower High Street including the Almshouses	
December 1979	Heavy rain, football field flooded but sandbags prevented damage in Lower High Street	
27-29 December 1979	-	Lewin, Fryer and Partners (2002) and the Environment Agency's Recorded Flood Outlines
December 1985	During 48 hours over Christmas, 32 mm of rain was followed hours later by another 30 mm. Daniels Well flooded which caused some concern (first time it had happened) but prevention work "passed its strongest test with flying colours".	Charles Vernon (2014, pers. comm.)
November & December 1992	Continuous heavy rain including 25 mm on 2 December – basements in Baskerville and St John's Street affected, one family had to be evacuated. Nurdens builders yard Park Road had 12" of water in the shop.	Charles Vernon (2014, pers. comm.)
19-22 January 1999	Worst floods in living memory. Baskerville and St John's Street worst hit. Bowls Club and Football Club under water.	Charles Vernon (2014, pers. comm.), Lewin, Fryer and Partners (2002) and the Environment Agency's Recorded Flood Outlines

30 October 2000	The River Avon and Tetbury Avon spilled out-of-bank, following heavy rainfall. The main damage was caused in St. John's Street, where a number of houses were flooded, and in the Park Road area. Several roads in other areas of the town were also under water, including Holloway and Swindon Road where they cross the river.	<a href="http://www.eilmer.co.uk/malmesbury/floods.htm">http://www.eilmer.co.uk/malmesbury/floods.htm</a>
October 2002	A Flood Reconnaissance Survey, undertaken by the Environment Agency on 8 November 2002, revealed the worst hit areas to be properties on St John's Street and Wynyard Mill, where flooding occurred from both the River Avon and mill streams. Flooding at Holloway Bridge also took place, with floodwater flowing down the road affecting a number of properties. Upstream of Stainsbridge was also affected, especially around the football club and adjacent properties.	Capita (2004)
January 2003	The River Avon spilled out-of-bank in Malmesbury and residents barricaded their homes with sandbags.	Capita (2004)
10 January 2007	Photographs show various locations across Malmesbury affected by flooding, including St. Aldhelm Mead Park, Malmesbury Bowls Club and Baskerville.	<a href="http://www.bbc.co.uk/wiltshire/content/image_galleries/jan_2007_floods_gallery.shtml?1">http://www.bbc.co.uk/wiltshire/content/image_galleries/jan_2007_floods_gallery.shtml?1</a>
20 July 2007	-	The Environment Agency's Recorded Flood Outlines
25 November 2012	Four people had to be rescued by fire fighters from two homes after heavy rain led to flooding. Local residents were taken by surprise by how quickly the water rose. The mayor of Malmesbury said it was the worst flooding he had seen in the centre of the town for nearly 70 years. Part of High Street was cut off by waist-deep water, and roads in and out of the town were closed. St John's Street and some smaller streets were also affected. Around 40 homes and businesses were flooded.	<a href="http://www.bbc.co.uk/news/uk-england-wiltshire-20484386">http://www.bbc.co.uk/news/uk-england-wiltshire-20484386</a> <a href="http://www.bbc.co.uk/news/uk-england-wiltshire-20492483">http://www.bbc.co.uk/news/uk-england-wiltshire-20492483</a> Environment Agency (2013) <i>Malmesbury_Flood_Property_Report_2012.xlsx</i>
24 December 2013	Eight properties were flooded in total. Six properties in St John's Street were flooded not by water coming over the road by St. John's Bridge as in November 2012, but by water from downstream of St. John's Bridge coming up through floors and yards. One property was flooded in Lower High Street; other houses in the street only avoided flooding through the use of floodgates and, in one case, a pump.	Edward Evans, member of the Malmesbury Flood Working Group





Flood pathways and affected properties



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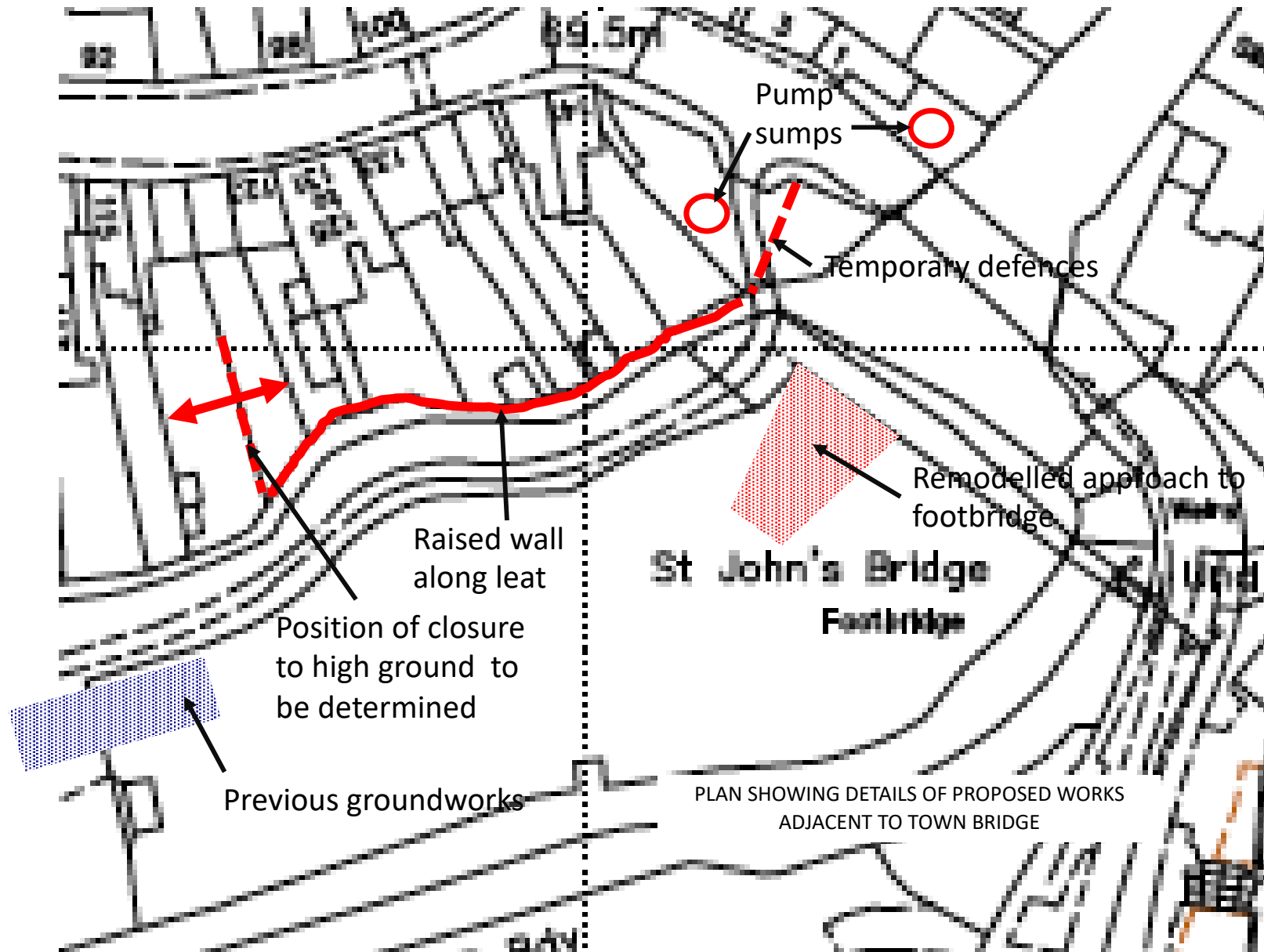


## Overview

- Demountable defences in the Memorial Gardens together with raised walls along the leat to stop water getting into St Johns St and Lower High St properties.
- Channel maintenance from Town Bridge to the A429 bridge to increase conveyance and lower flood levels further along St Johns Street
- Provision of property resilience measures for all at-risk properties.
- High enough standard to withstand repeats of the 2012/2013 floods – about a 1 in 50 years standard of protection; detailed modelling and design will refine this



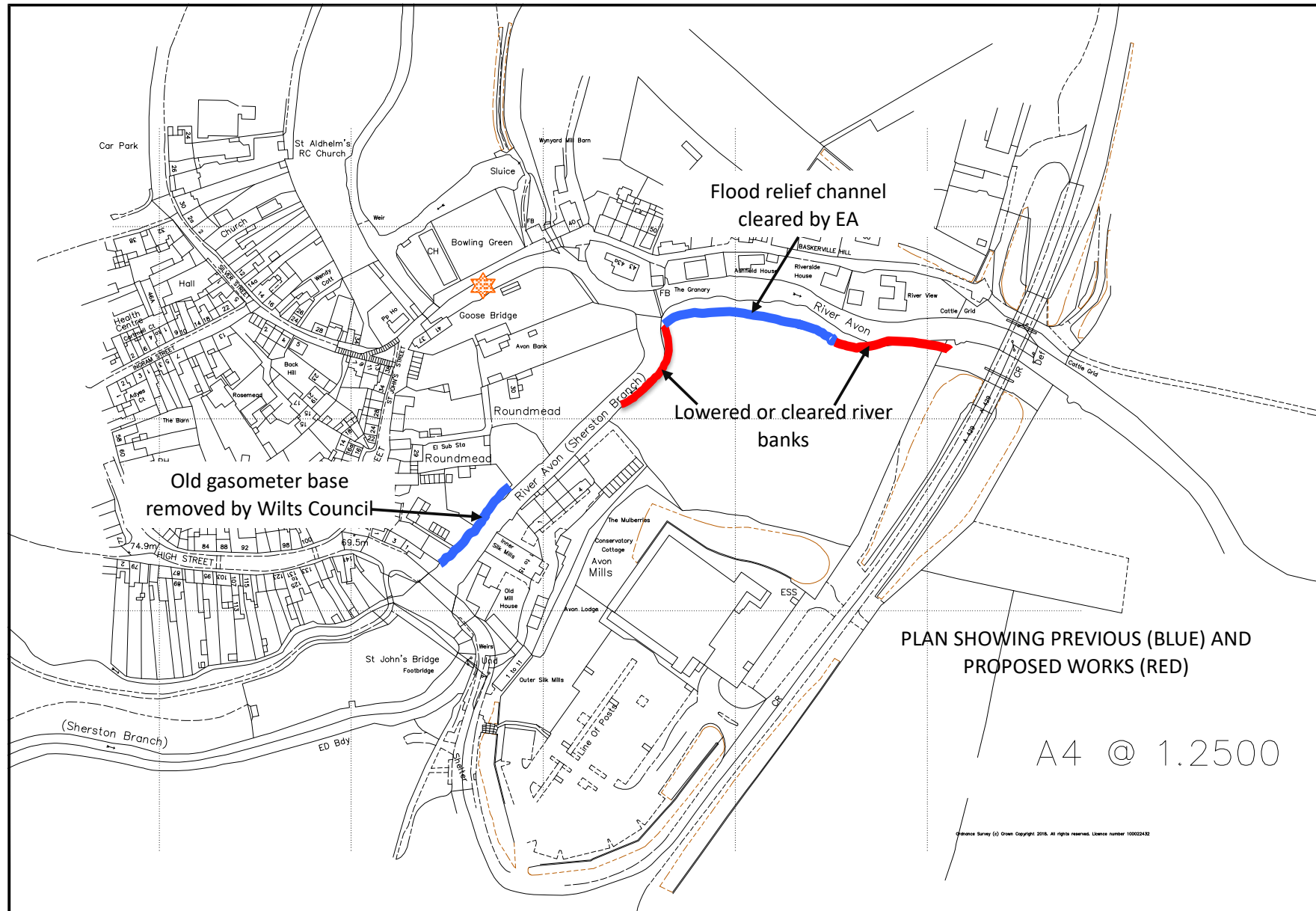
The Scheme: St Johns area







The Scheme: St Johns – A429 bridge



# Next Steps



MALMESBURY  
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Q&A