



Norwich Western Link

Environmental Statement

Chapter 12 Road Drainage and the Water Environment

Appendix 2 Flood Risk Assessment

Sub Appendix A – Figures

Part 1 of 5

Author: WSP UK Limited

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Date: March 2024



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Figures

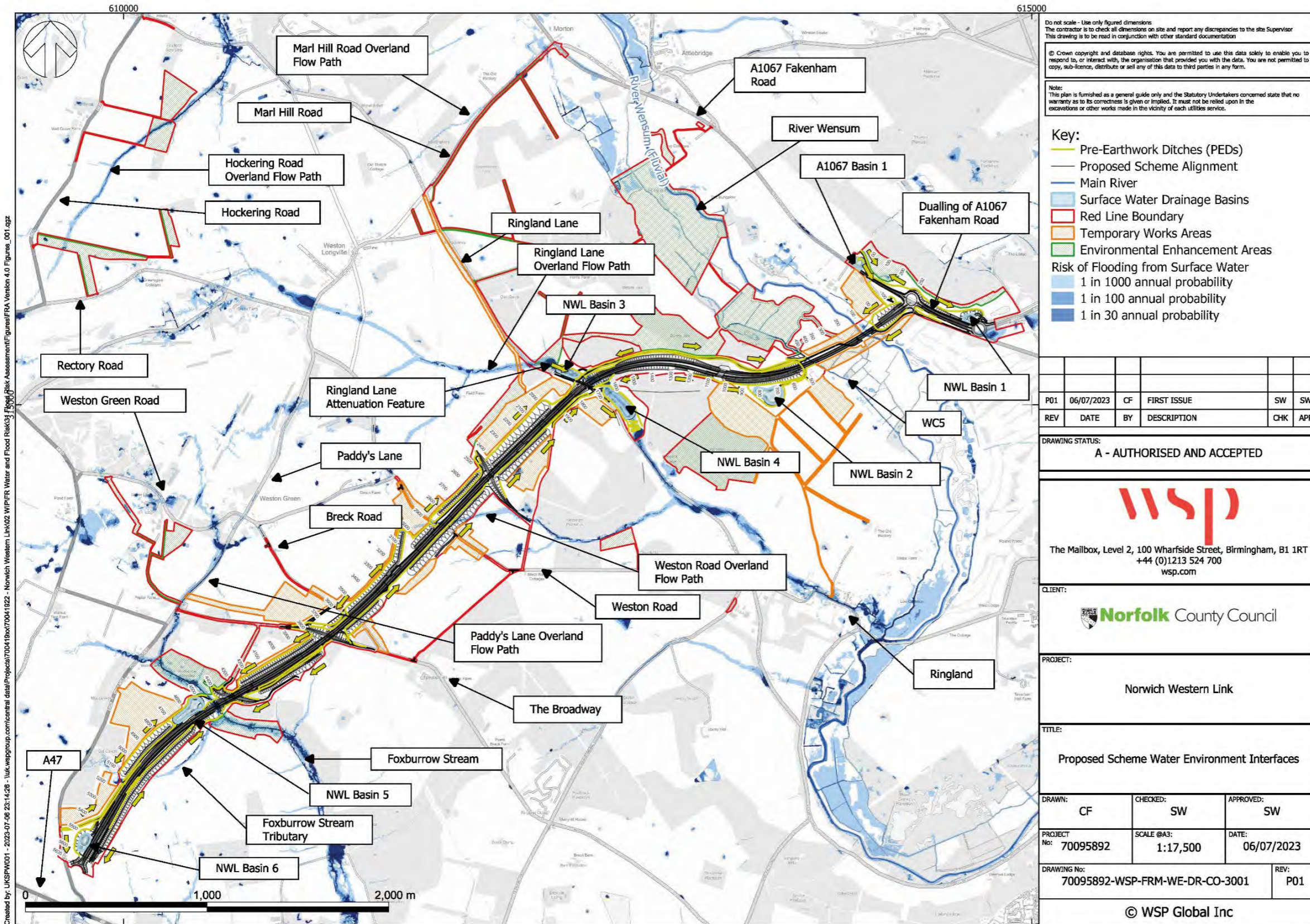
1.1.1 This Sub Appendix presents the figures associated with the **Flood Risk Assessment** (Document Reference 3.12.02). Figures are generally split into four sections as follows:

- Scheme wide figures
- River Wensum figures
- Foxburrow Stream figures
- Ringland Lane overland flow path figures

Scheme wide

1.1.2 The following figures provide an overview of the Proposed Scheme as a whole, the various elements that make up the Proposed Scheme and the local infrastructure and environment in the vicinity of the Proposed Scheme and the interactions of all these elements with the Environment Agency's Flood Map for Surface Water.

Water Environment Interfaces



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- Key:
- Pre-Earthwork Ditches (PEDs)
 - Proposed Scheme Alignment
 - Main River
 - Surface Water Drainage Basins
 - Red Line Boundary
 - Temporary Works Areas
 - Environmental Enhancement Areas
- Risk of Flooding from Surface Water
- 1 in 1000 annual probability
 - 1 in 100 annual probability
 - 1 in 30 annual probability

P01	06/07/2023	CF	FIRST ISSUE	SW	SW
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Norfolk County Council

PROJECT:
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TITLE:
Proposed Scheme Water Environment Interfaces

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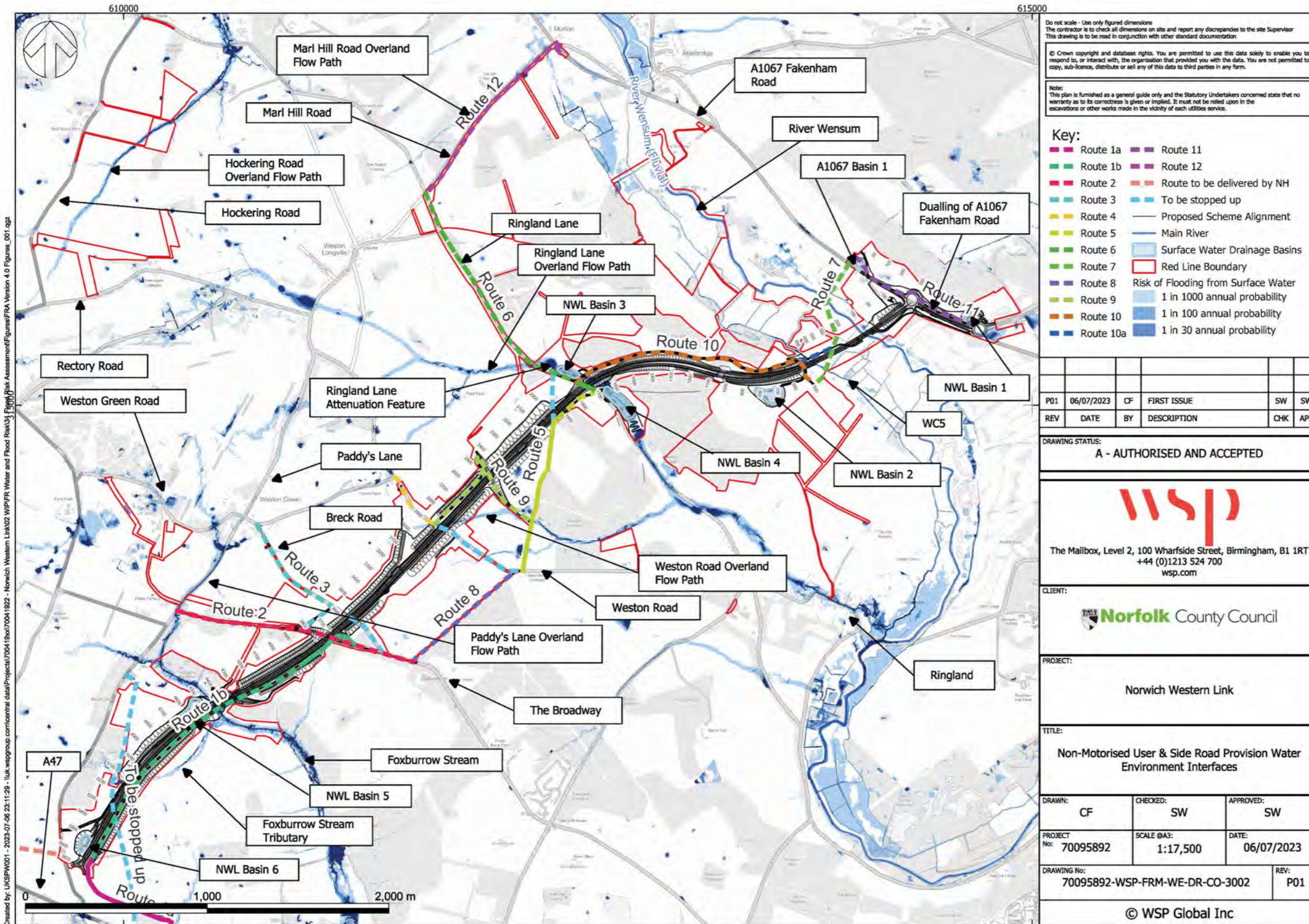
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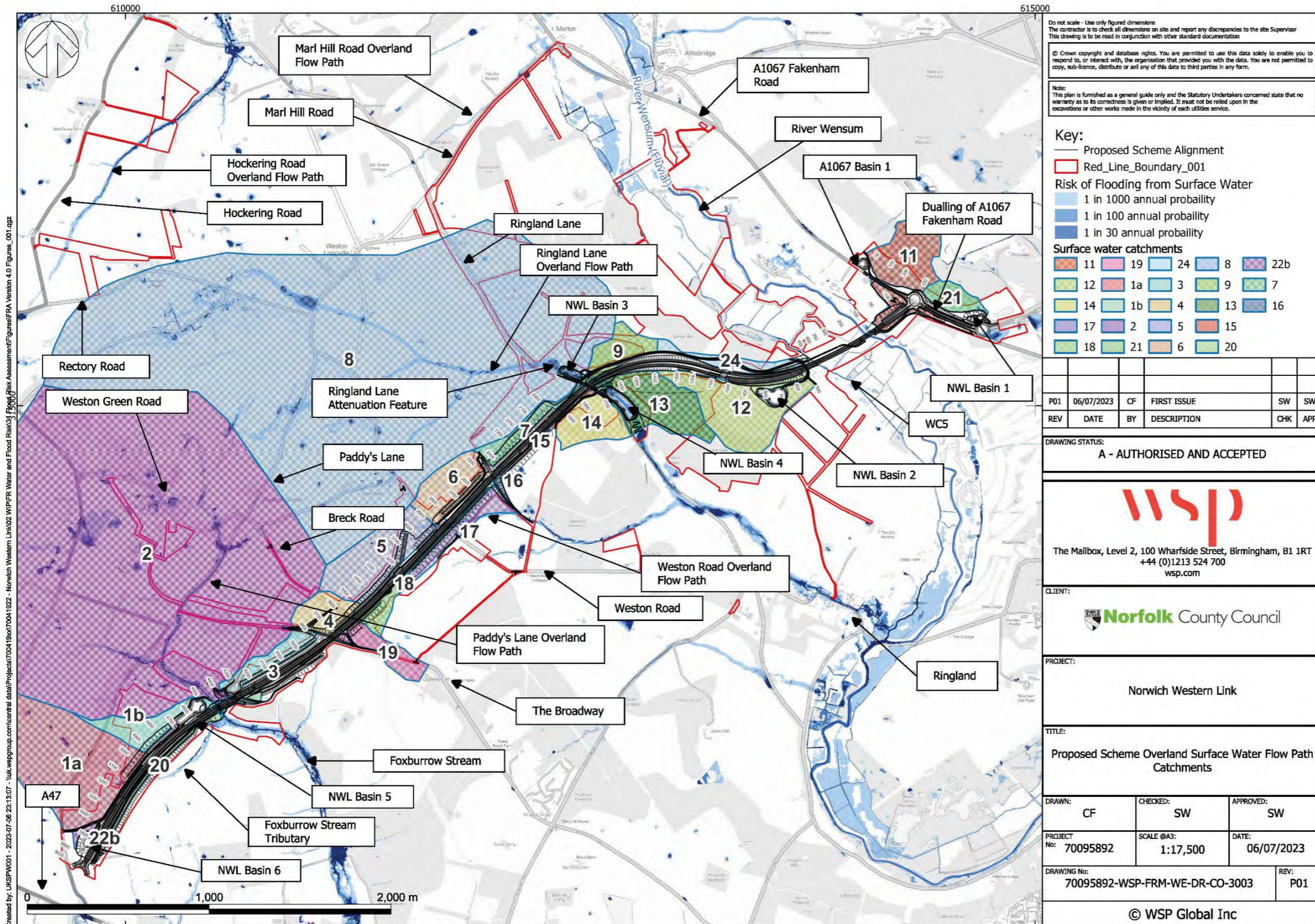
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Non-motorised user water environment interface



Overland surface water catchment



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Key:

- Proposed Scheme Alignment
- Red_Line_Boundary_001

Risk of Flooding from Surface Water

- 1 in 1000 annual probability
- 1 in 100 annual probability
- 1 in 30 annual probability

Surface water catchments

11	19	24	8	22b
12	1a	3	9	7
14	1b	4	13	16
17	2	5	15	
18	21	6	20	

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TITLE:
Proposed Scheme Overland Surface Water Flow Path Catchments

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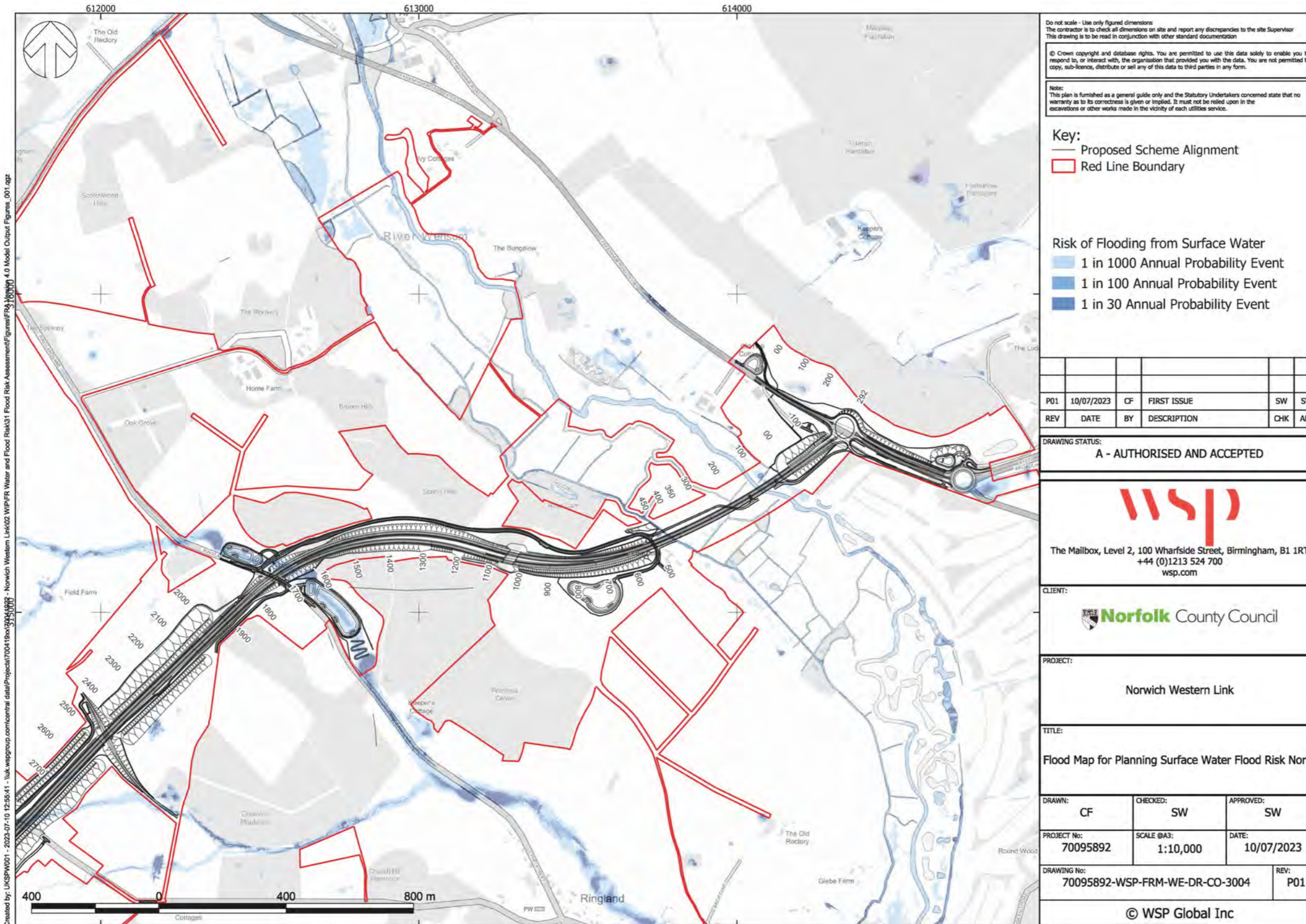
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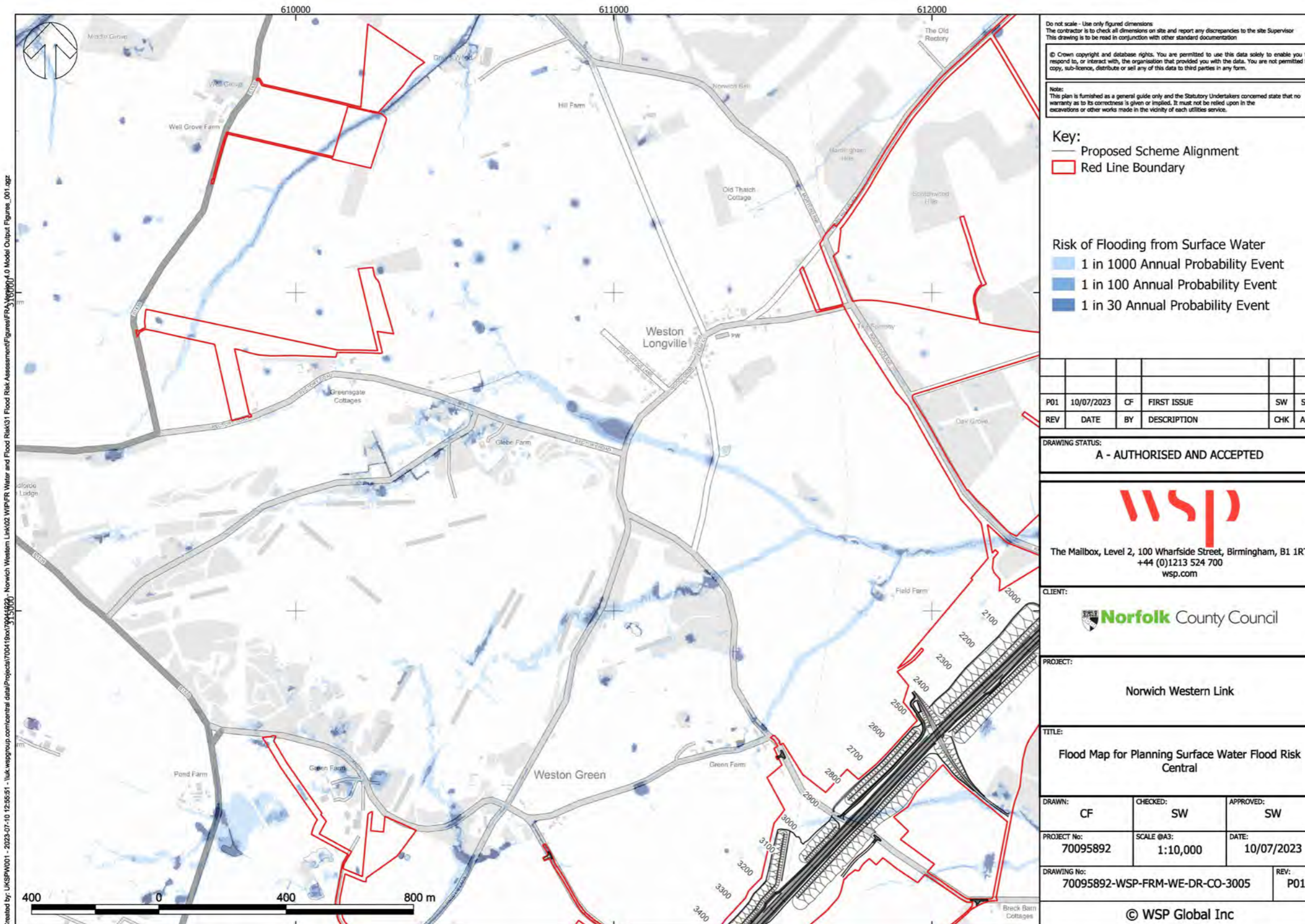
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Flood map for planning surface water flood risk north

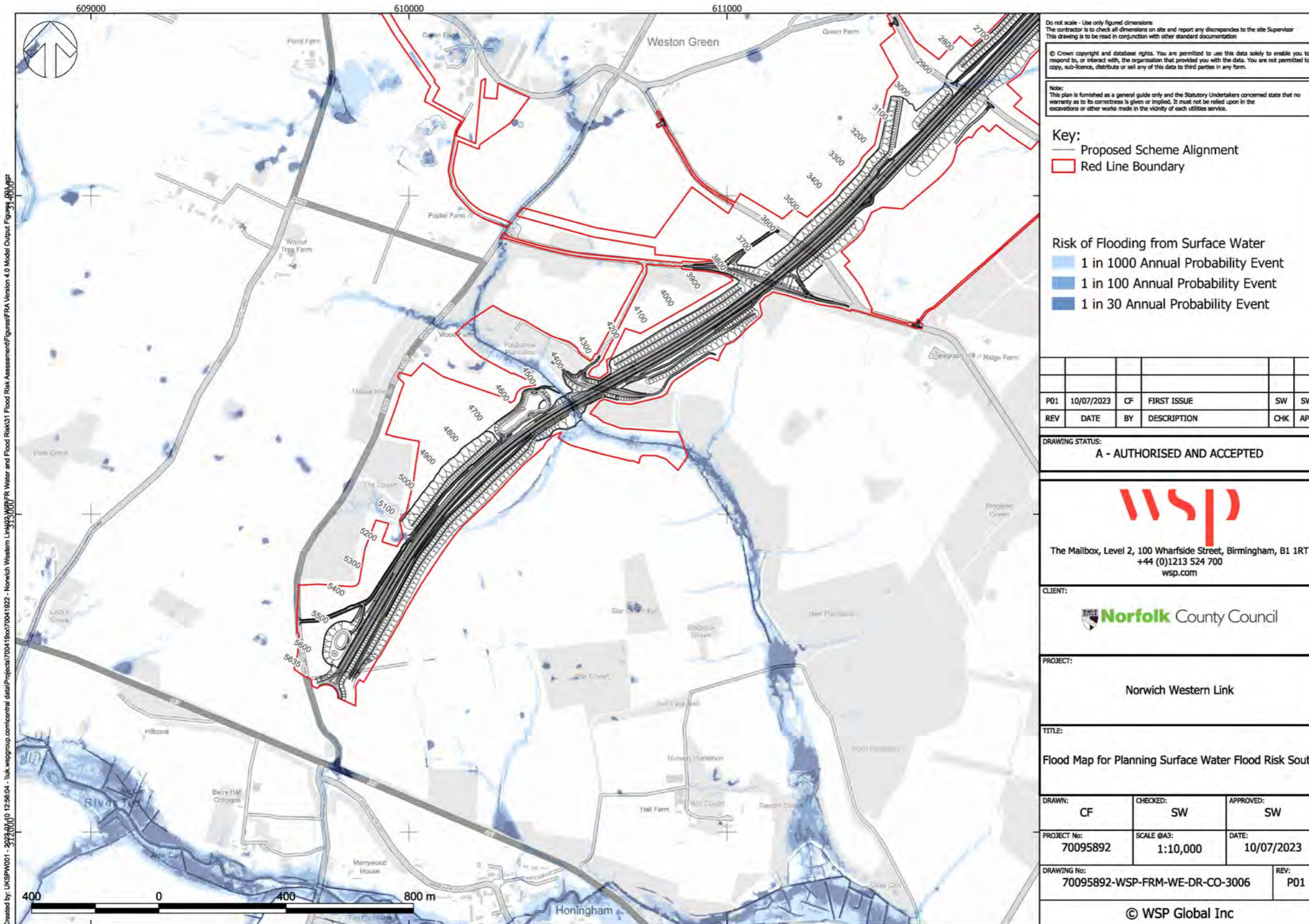


Flood map for planning surface water flood risk central



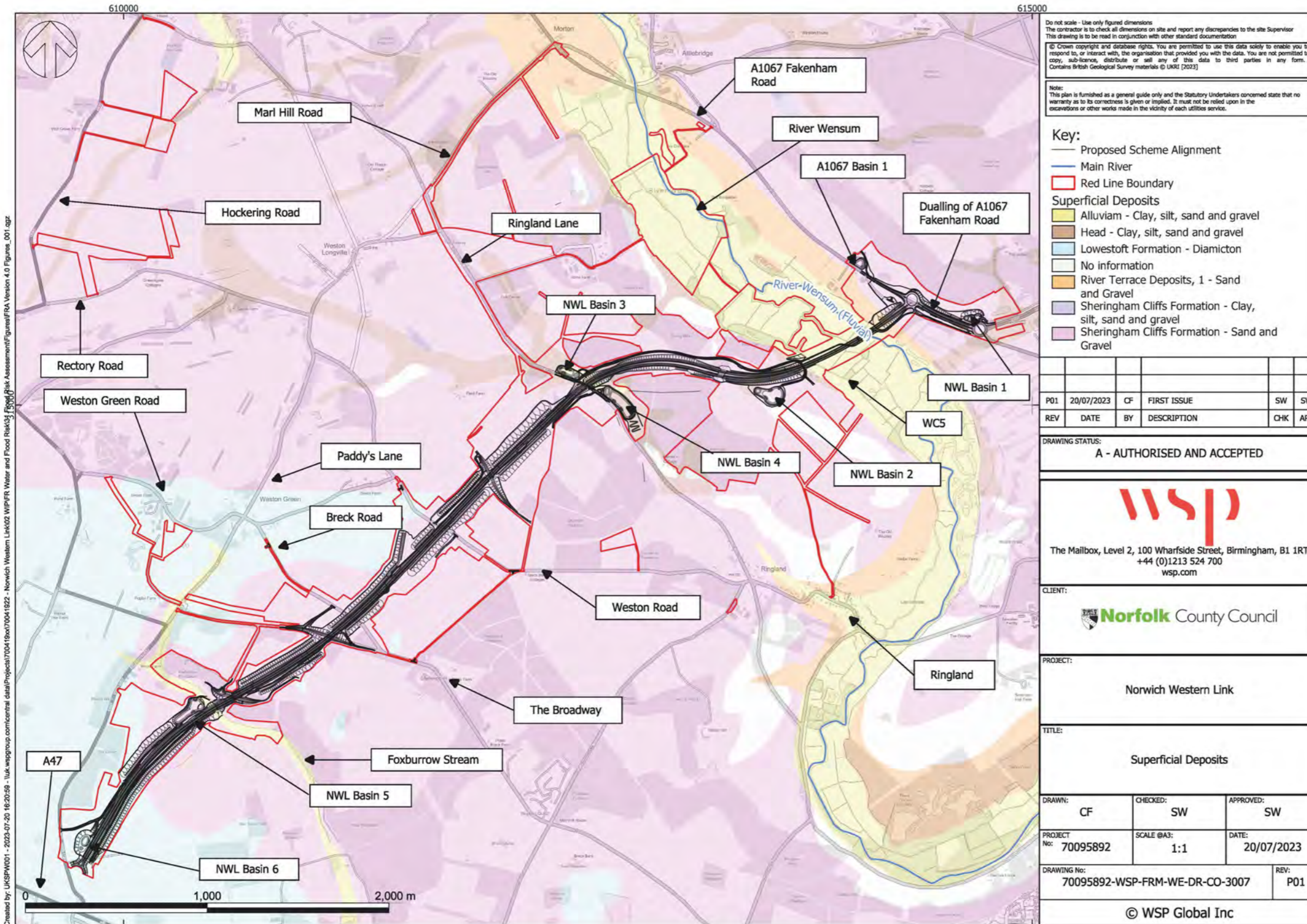
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Flood map for planning surface water flood risk south



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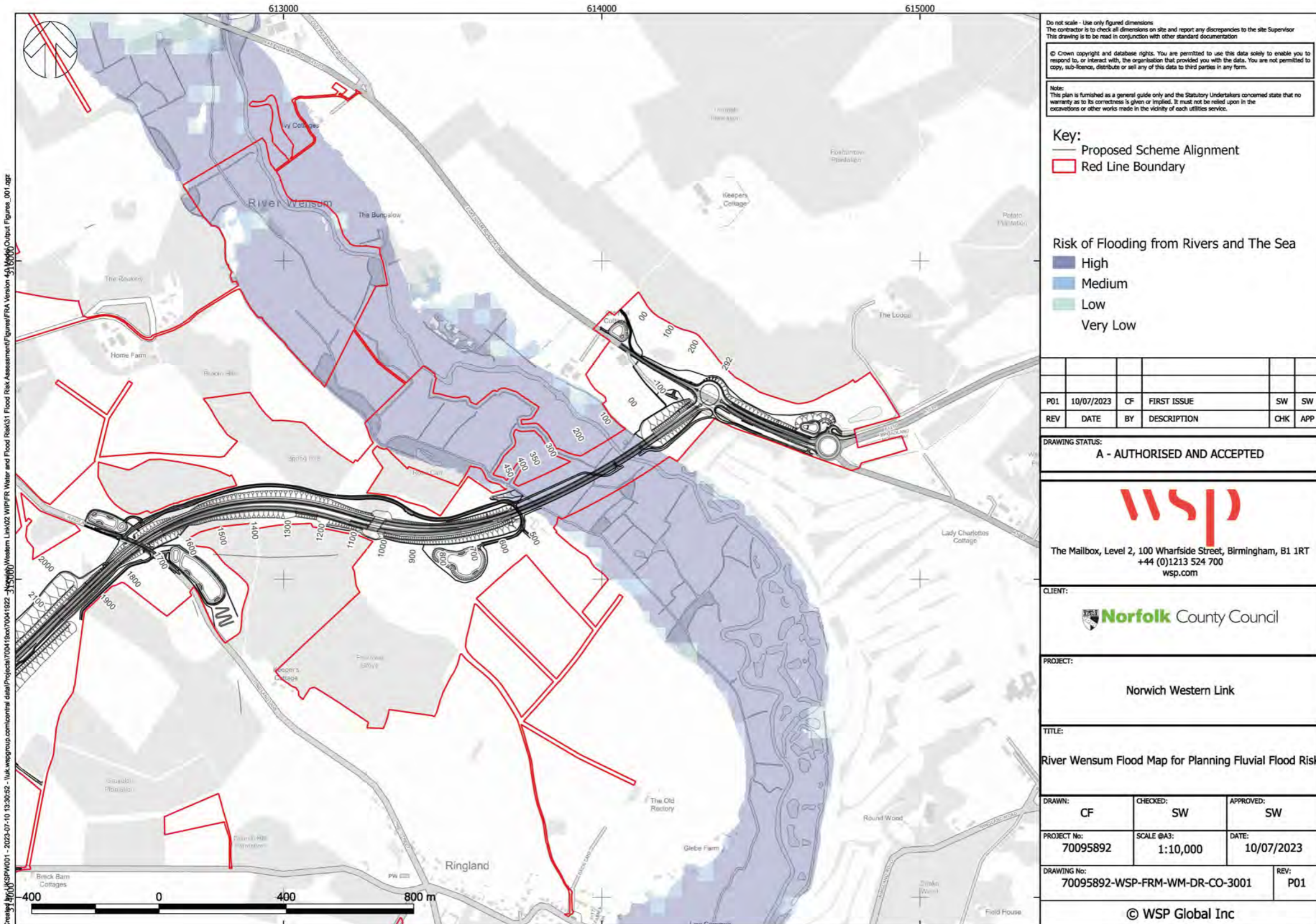
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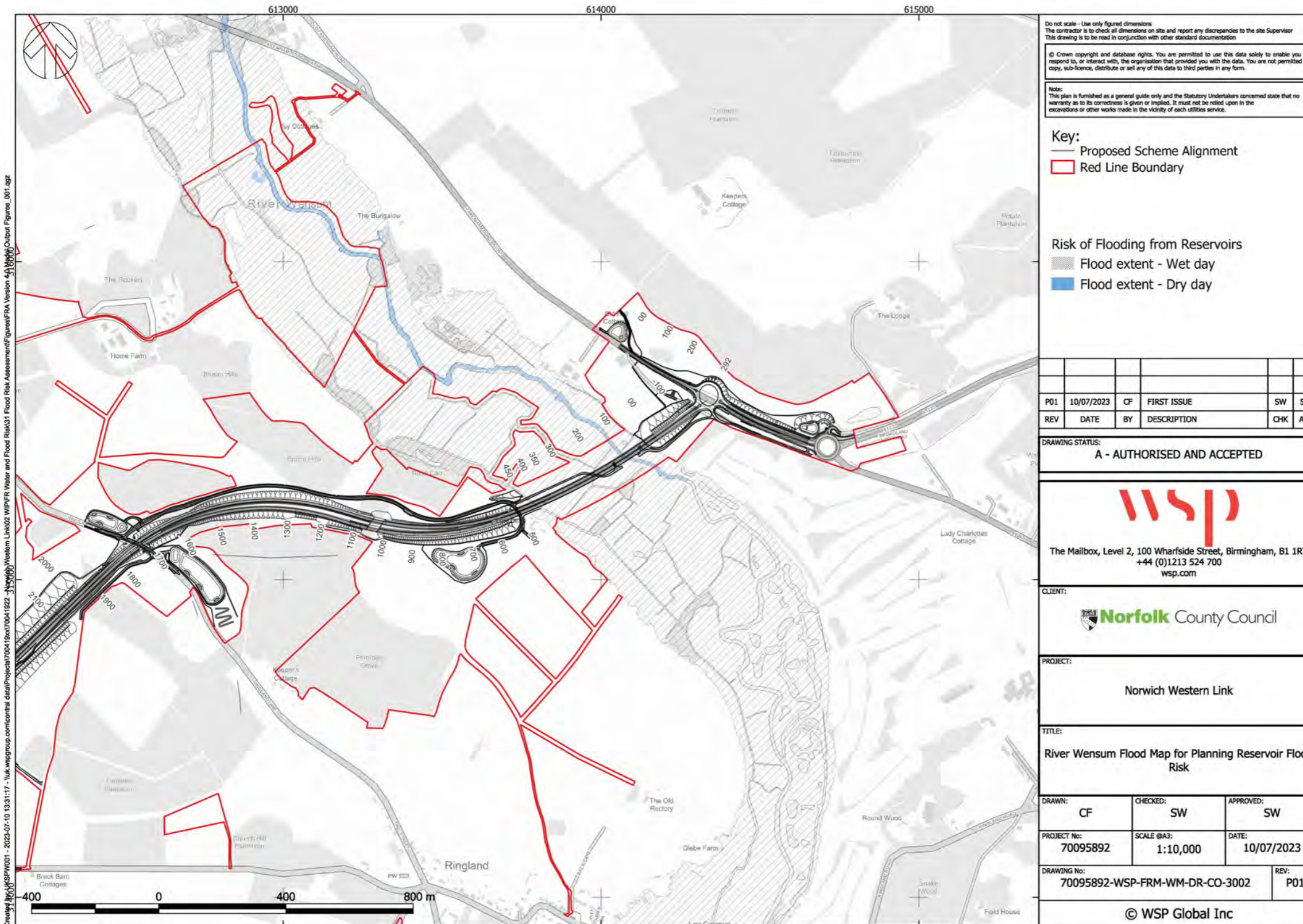
River Wensum

The following figures present the flood risk associated with the River Wensum. They present the existing risk from publicly available national mapping. They also present the results of the detailed hydraulic modelling undertaken as part of the Flood Risk Assessment. The modelling results presented include depths, velocity and hazard mapping in the existing case, with the proposed scheme in place and with the temporary works proposals in place. Maps are presented for the 1 in 2, 5, 30, 50, 100, 1000, 100+11%, 100+20%, 30+44% and 100+44% annual probability events. The differences in depth and velocity between the proposed and baseline and between the temporary works and baseline are also presented. Finally, model results are presented for a reservoir breach scenario in the 1 in 100+44% annual probability event and depth and velocity difference grids provided for the same event.

River Wensum flood map for planning fluvial flood risk





River Wensum flood map for planning reservoir flood risk





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Key:
 Proposed Scheme Alignment
 Red Line Boundary

Risk of Flooding from Reservoirs
 Flood extent - Wet day
 Flood extent - Dry day

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River Wensum Flood Map for Planning Reservoir Flood Risk

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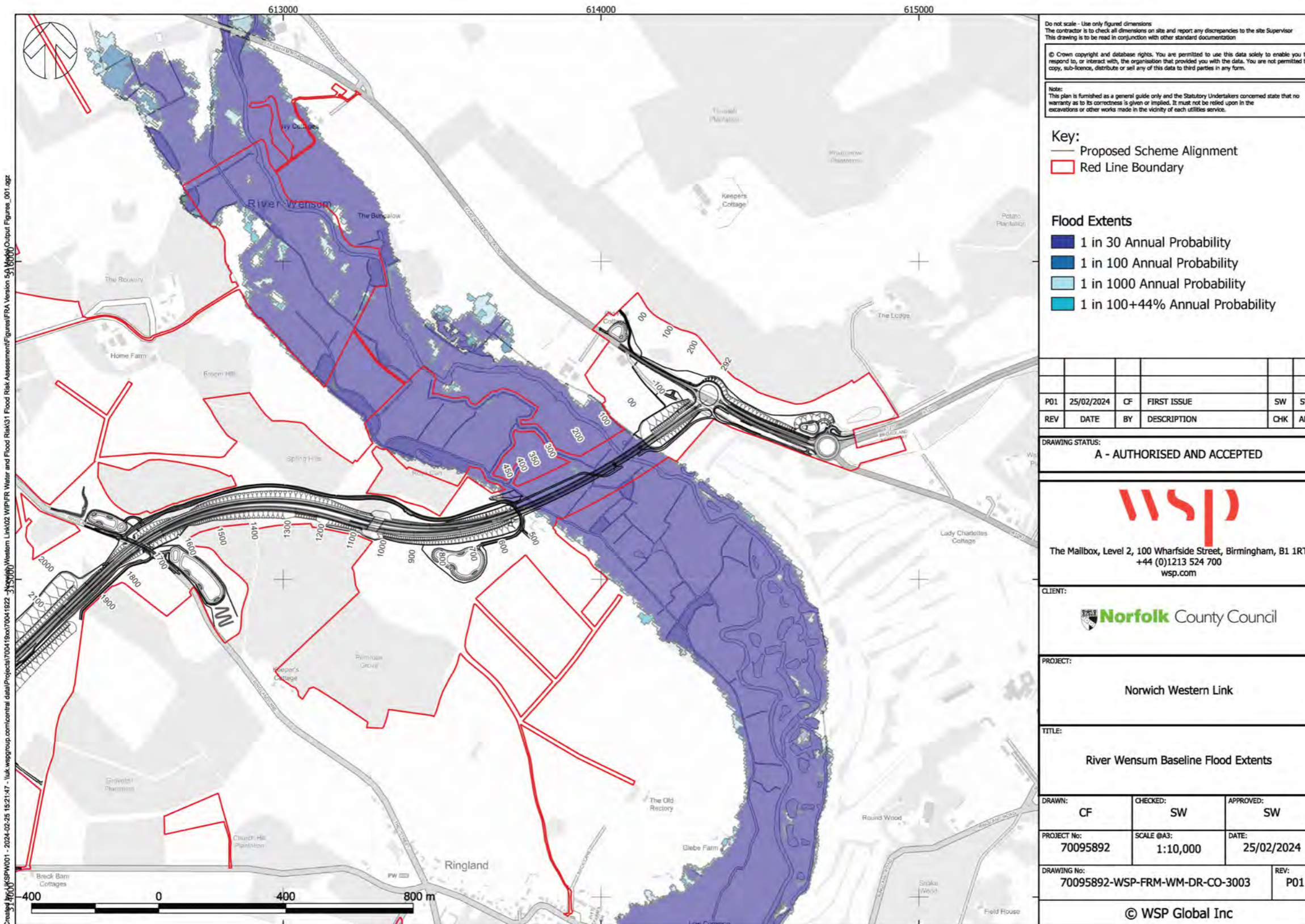
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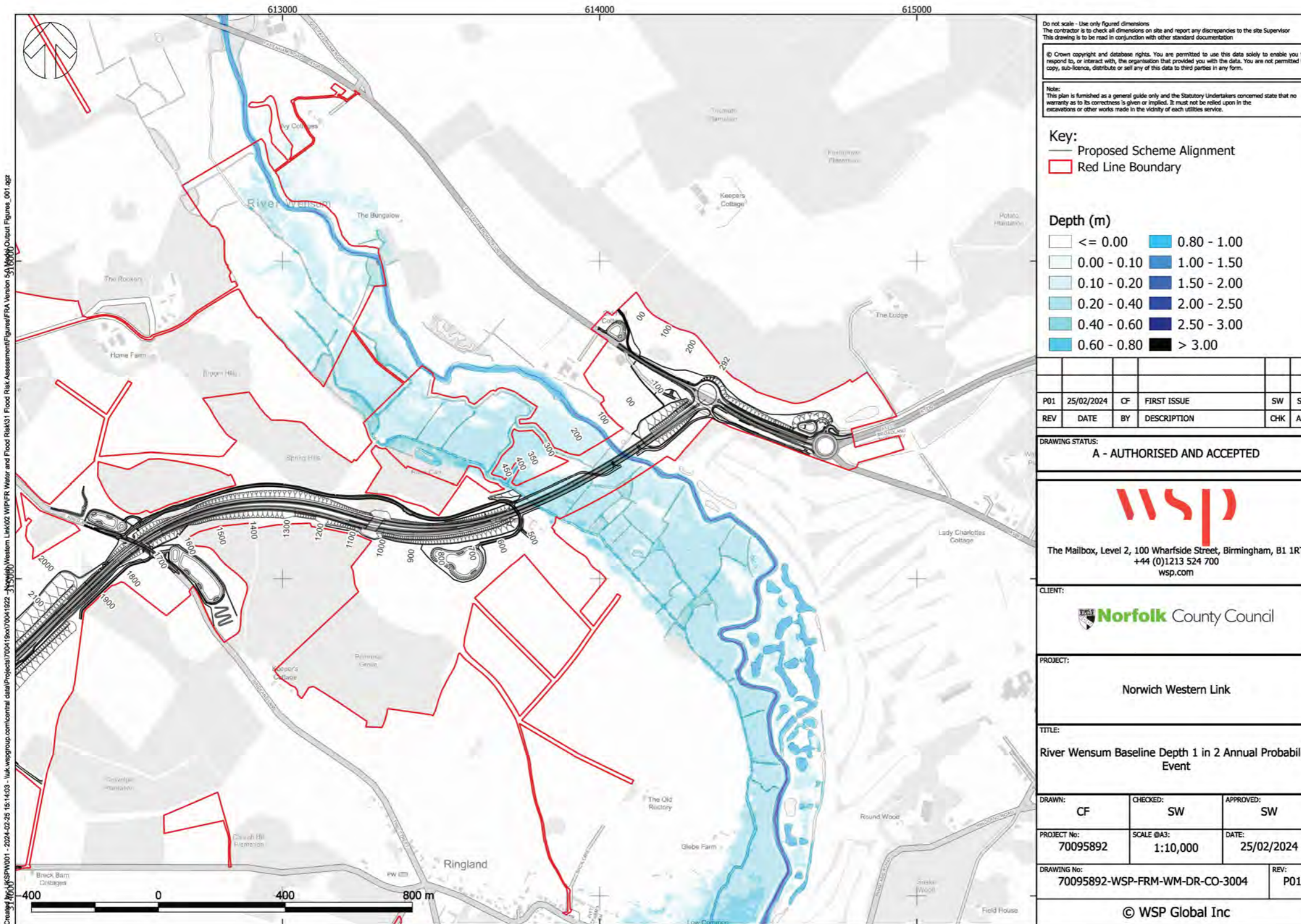
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River Wensum baseline flood extents





River Wensum baseline depth 1 in 2 annual probability event



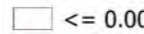
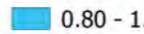
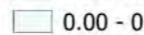
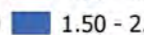
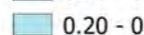
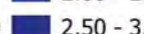
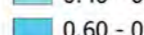
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Key:
 Proposed Scheme Alignment
 Red Line Boundary

Depth (m)

	<= 0.00		0.80 - 1.00
	0.00 - 0.10		1.00 - 1.50
	0.10 - 0.20		1.50 - 2.00
	0.20 - 0.40		2.00 - 2.50
	0.40 - 0.60		2.50 - 3.00
	0.60 - 0.80		> 3.00

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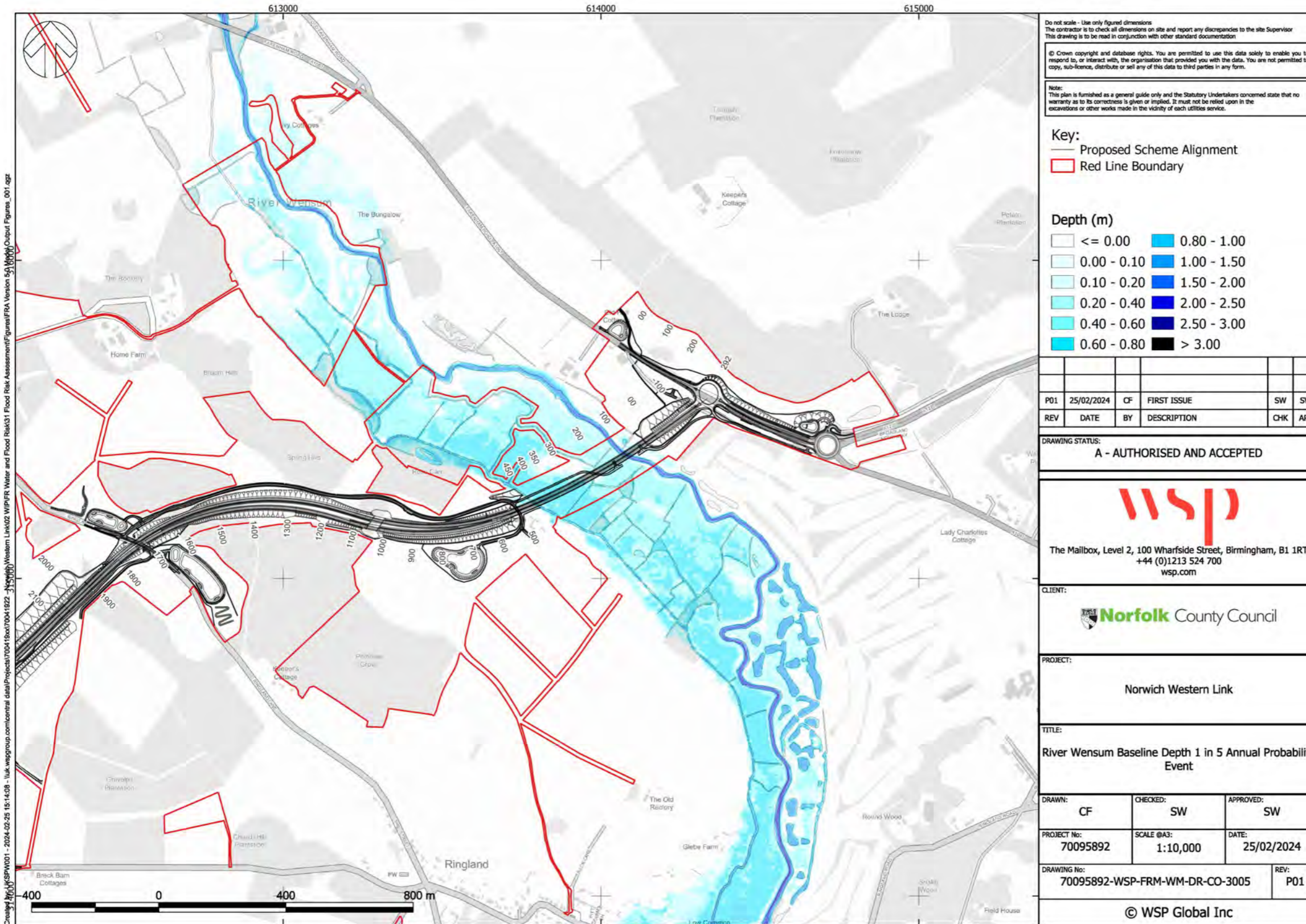
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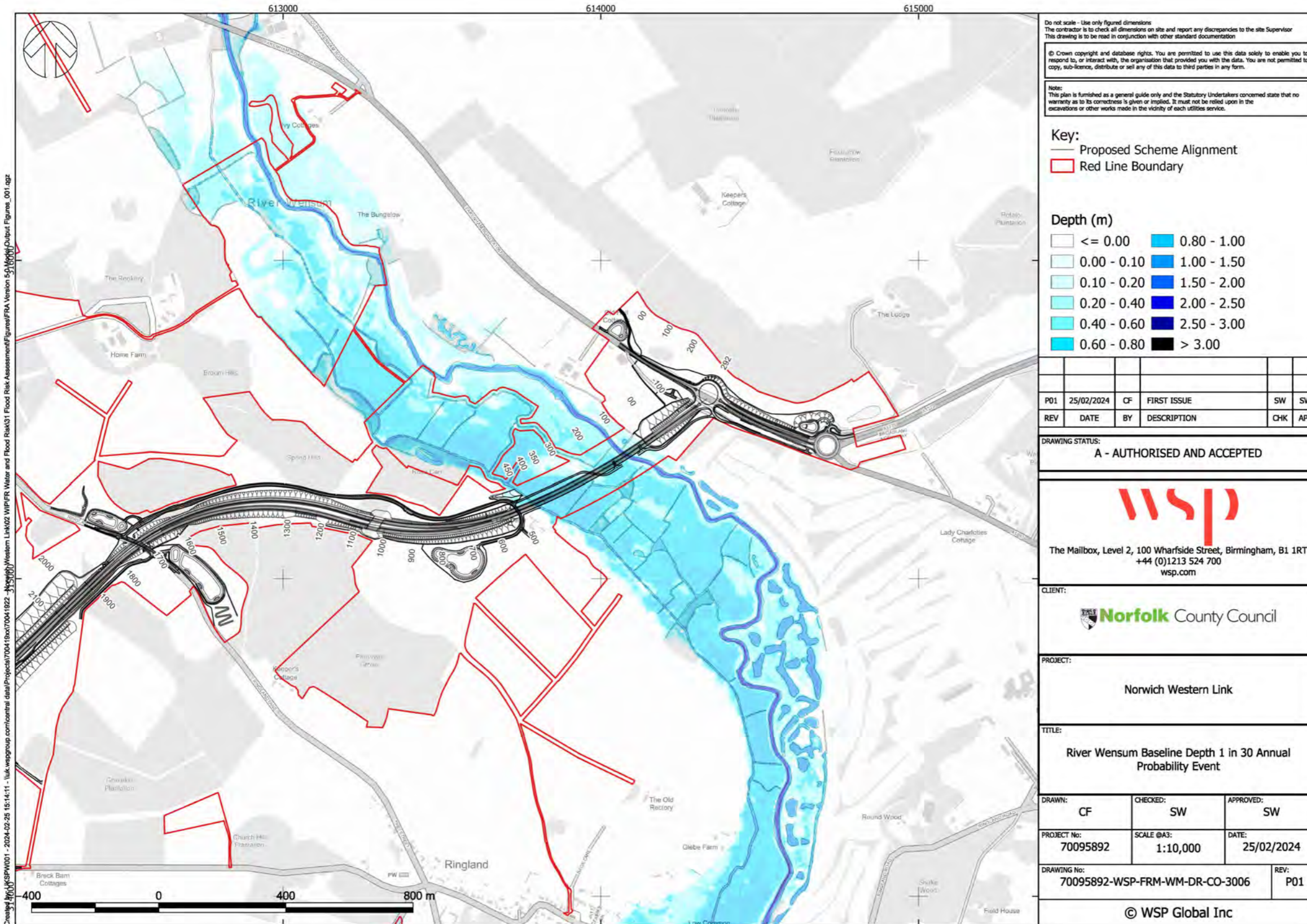
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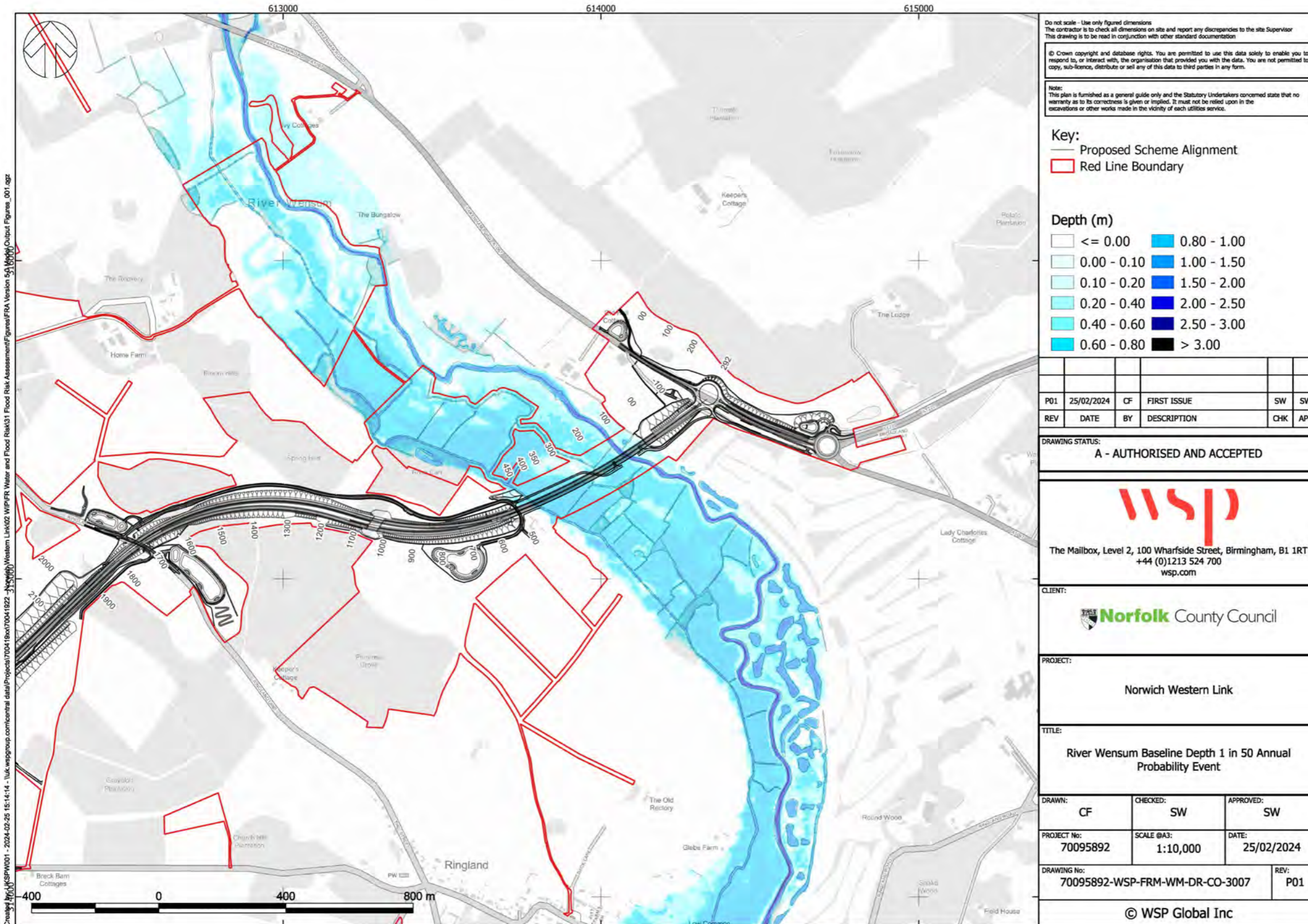
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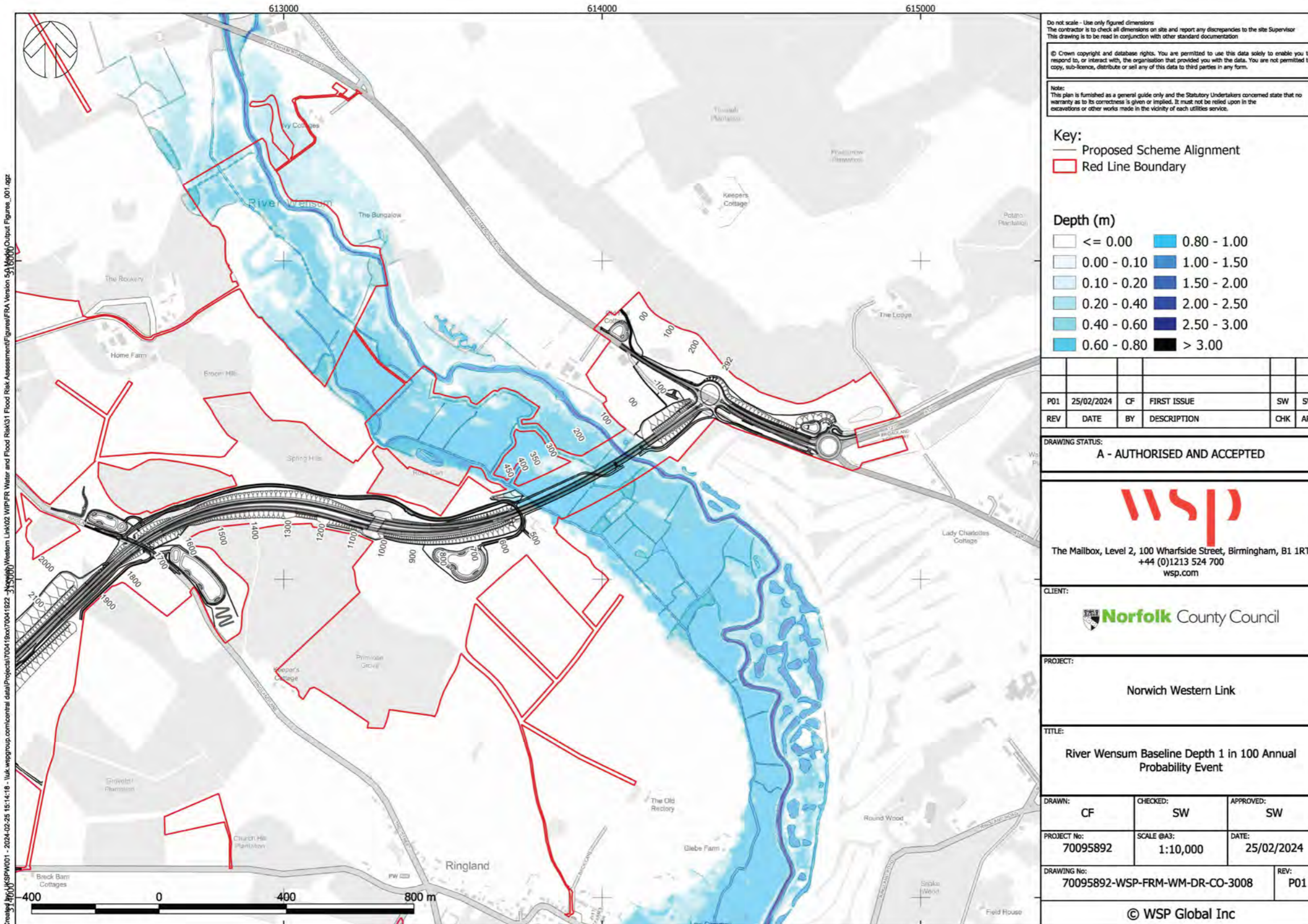
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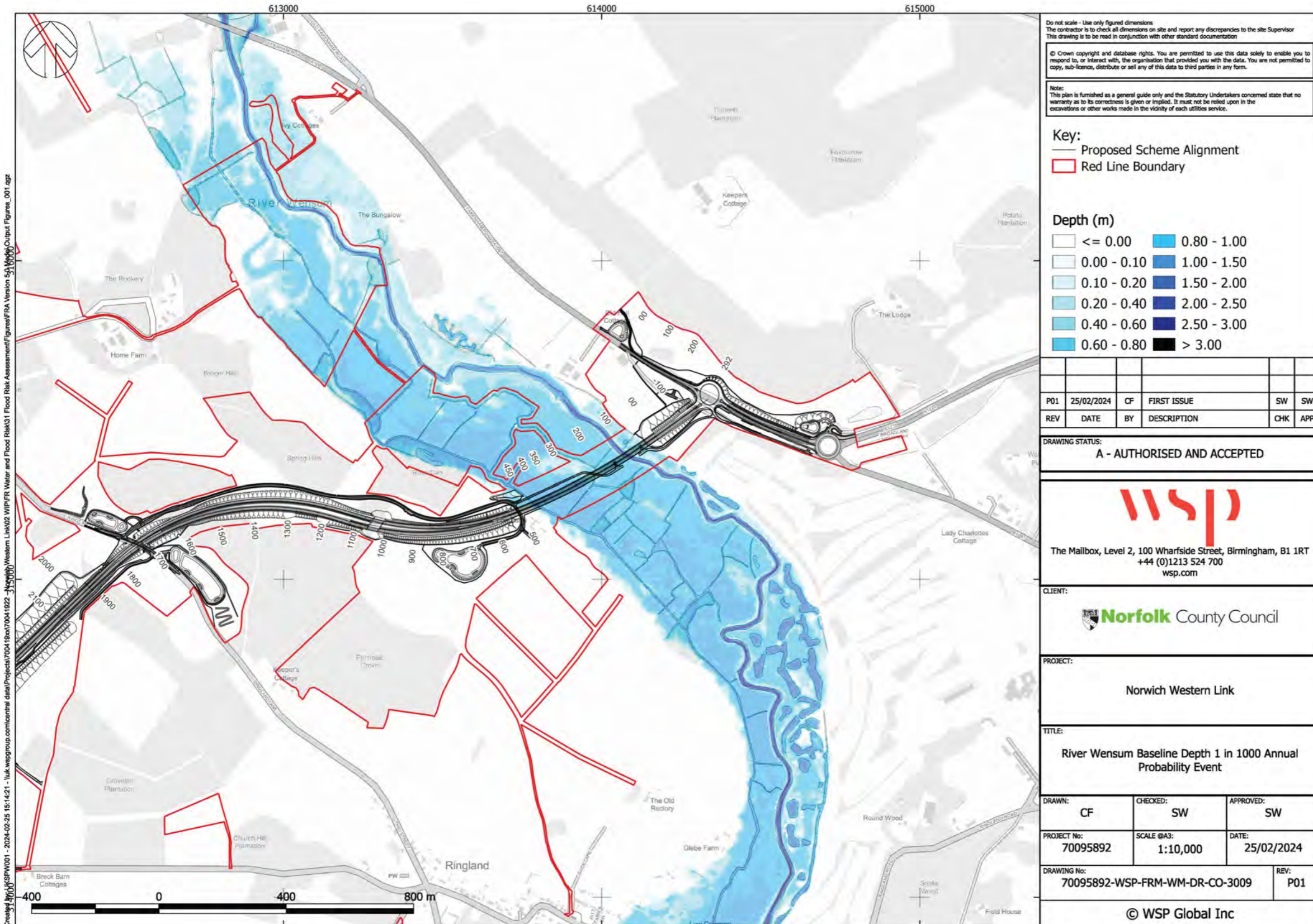
River Wensum baseline depth 1 in 50 annual probability event



River Wensum baseline depth 1 in 100 annual probability event





River Wensum baseline depth 1 in 1000 annual probability event















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Key:
 Proposed Scheme Alignment
 Red Line Boundary

Depth (m)

 <= 0.00	 0.80 - 1.00
 0.00 - 0.10	 1.00 - 1.50
 0.10 - 0.20	 1.50 - 2.00
 0.20 - 0.40	 2.00 - 2.50
 0.40 - 0.60	 2.50 - 3.00
 0.60 - 0.80	 > 3.00

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TITLE:
River Wensum Baseline Depth 1 in 1000 Annual Probability Event

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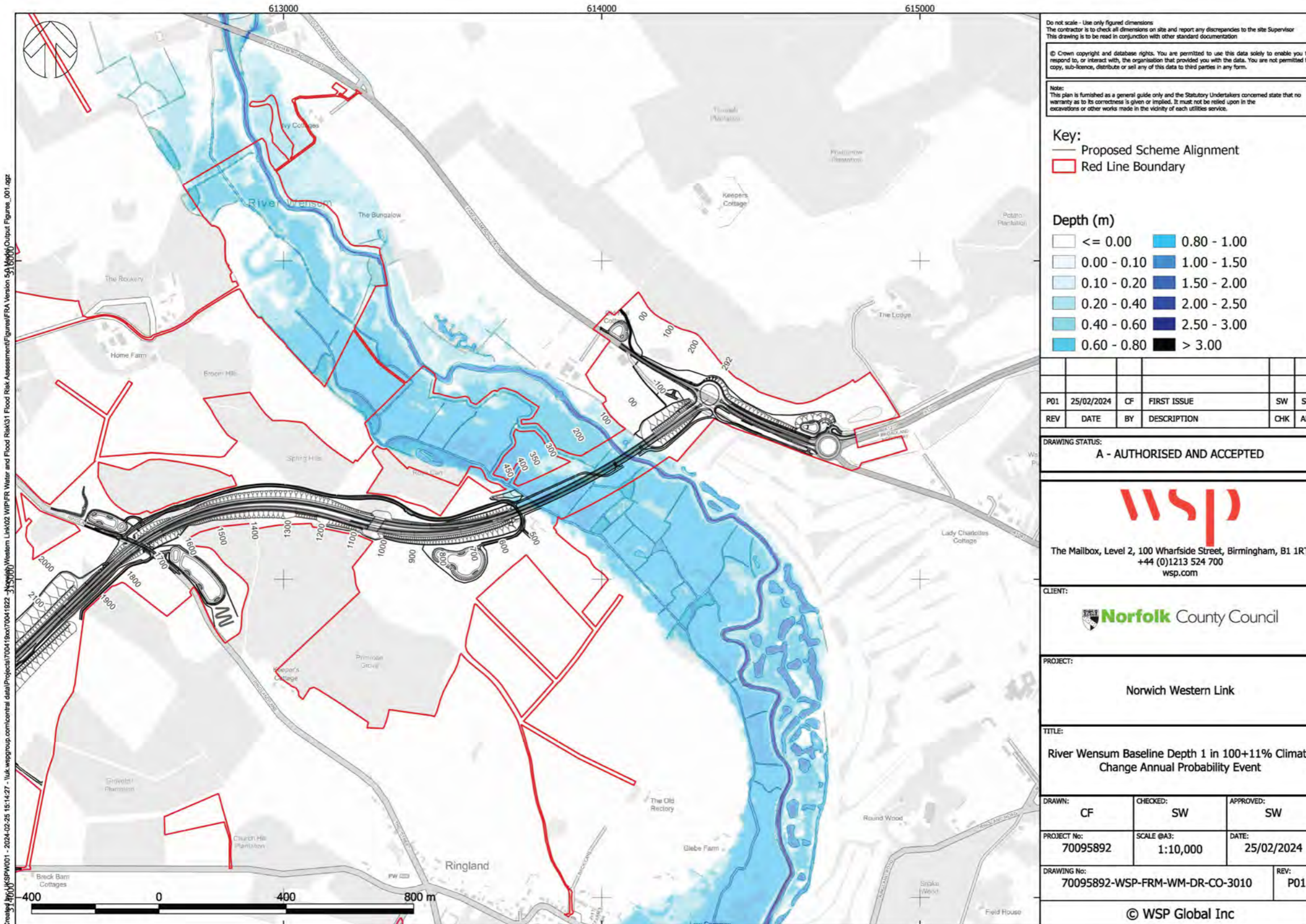
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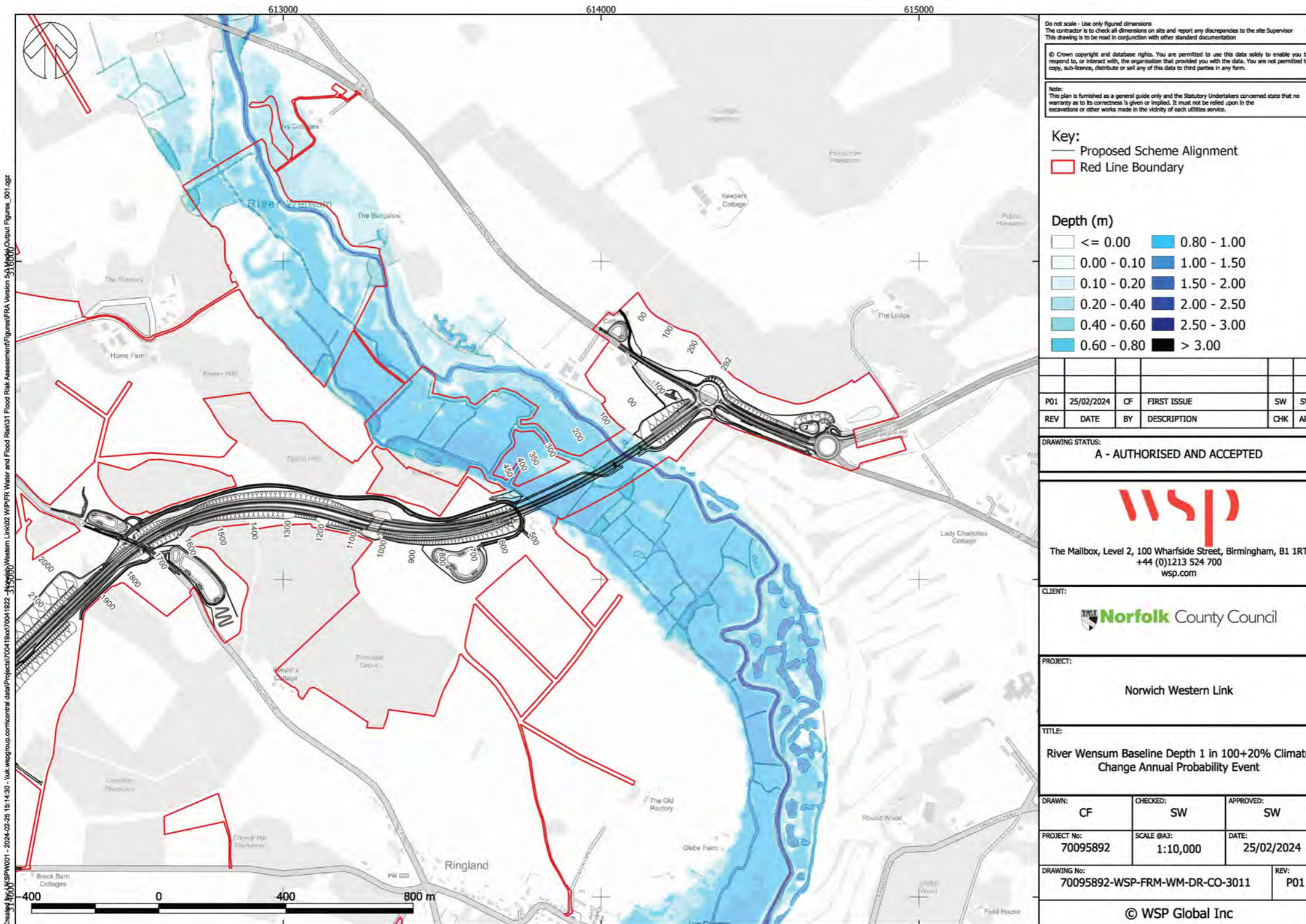
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River Wensum baseline depth 1 in 100+11% annual probability event



River Wensum baseline depth 1 in 100+20% annual probability event





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










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Key:
 Proposed Scheme Alignment
 Red Line Boundary


Depth (m)

	<= 0.00		0.80 - 1.00
	0.00 - 0.10		1.00 - 1.50
	0.10 - 0.20		1.50 - 2.00
	0.20 - 0.40		2.00 - 2.50
	0.40 - 0.60		2.50 - 3.00
	0.60 - 0.80		> 3.00

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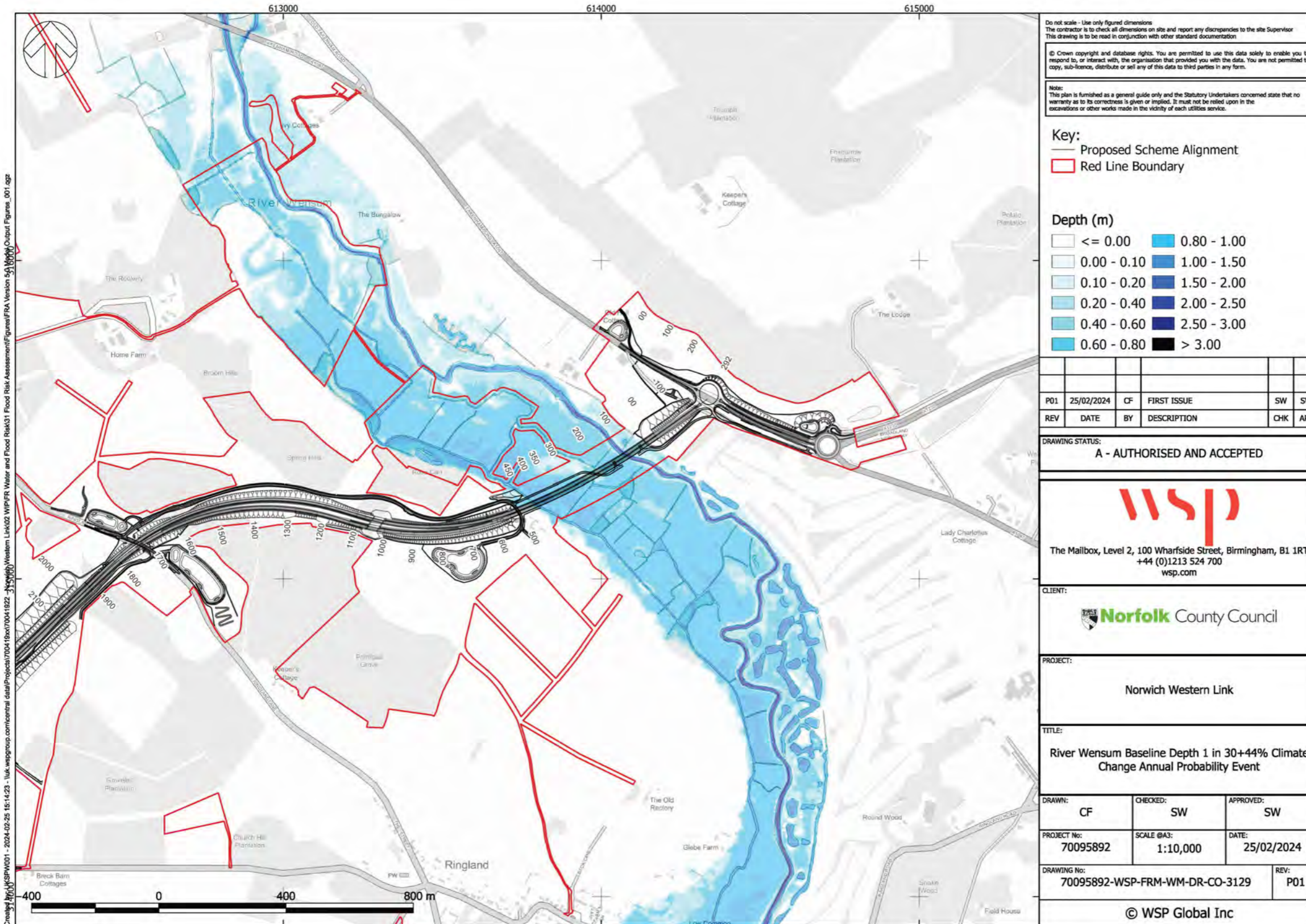
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Norwich Western Link

TITLE:
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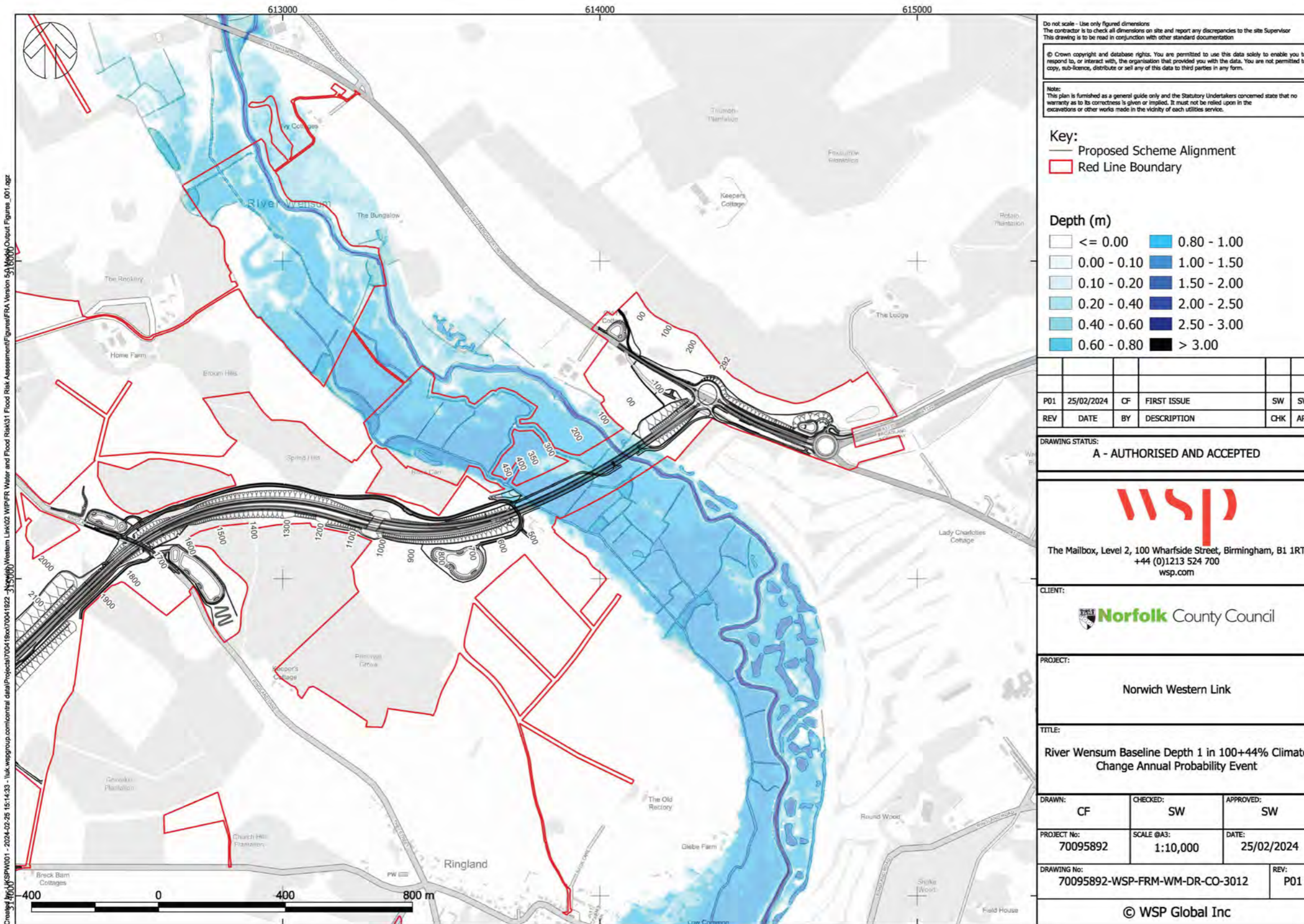
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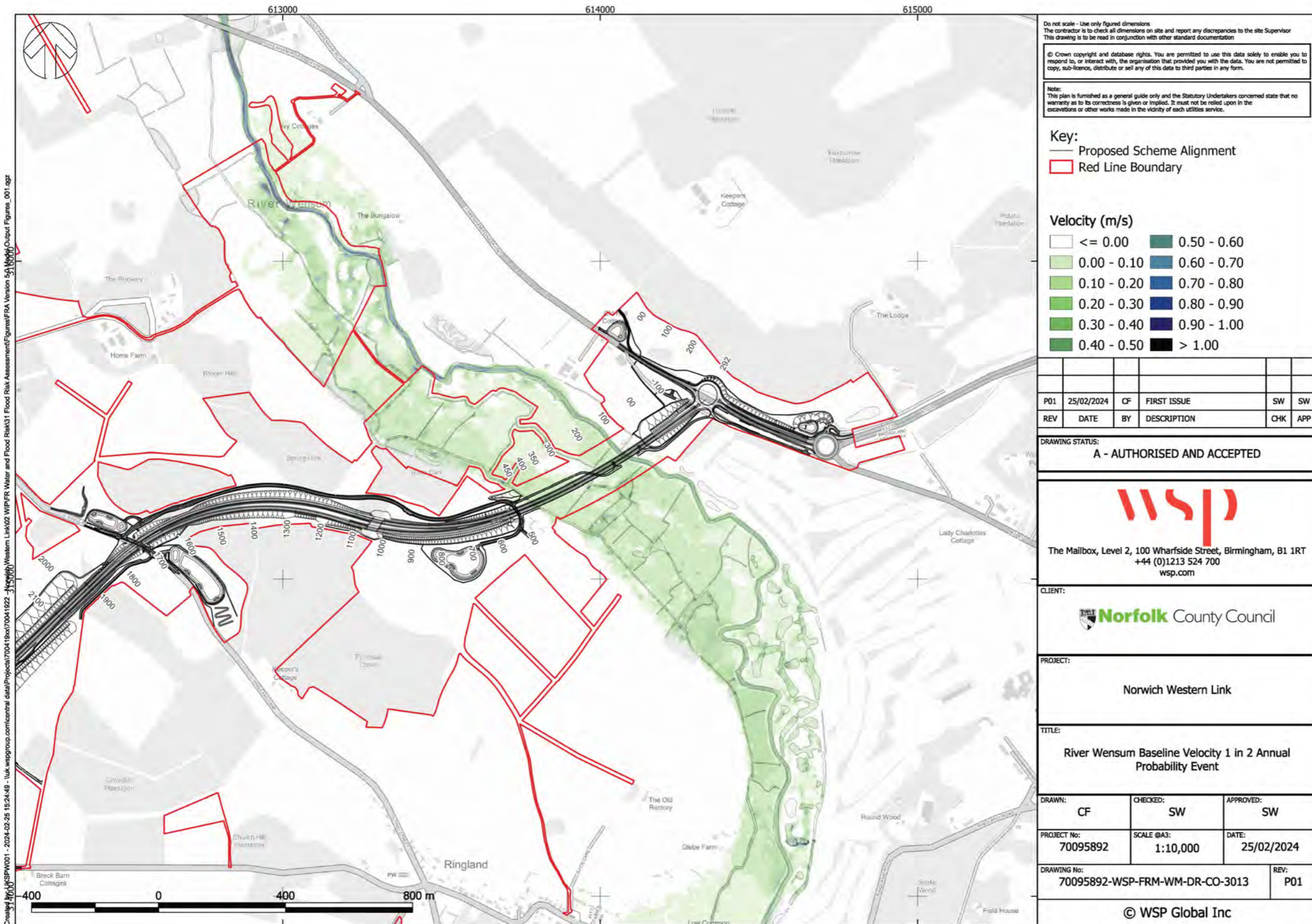
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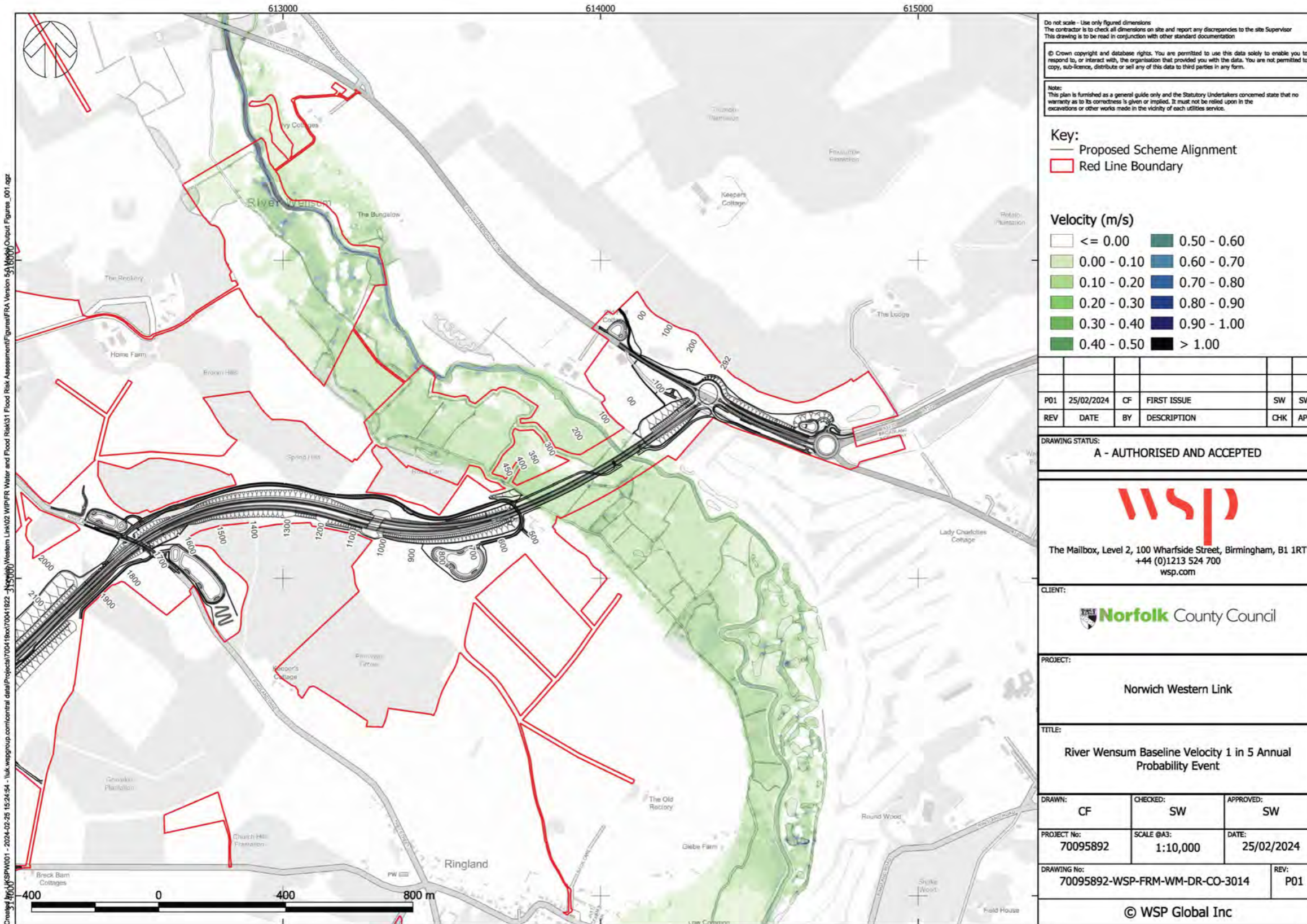
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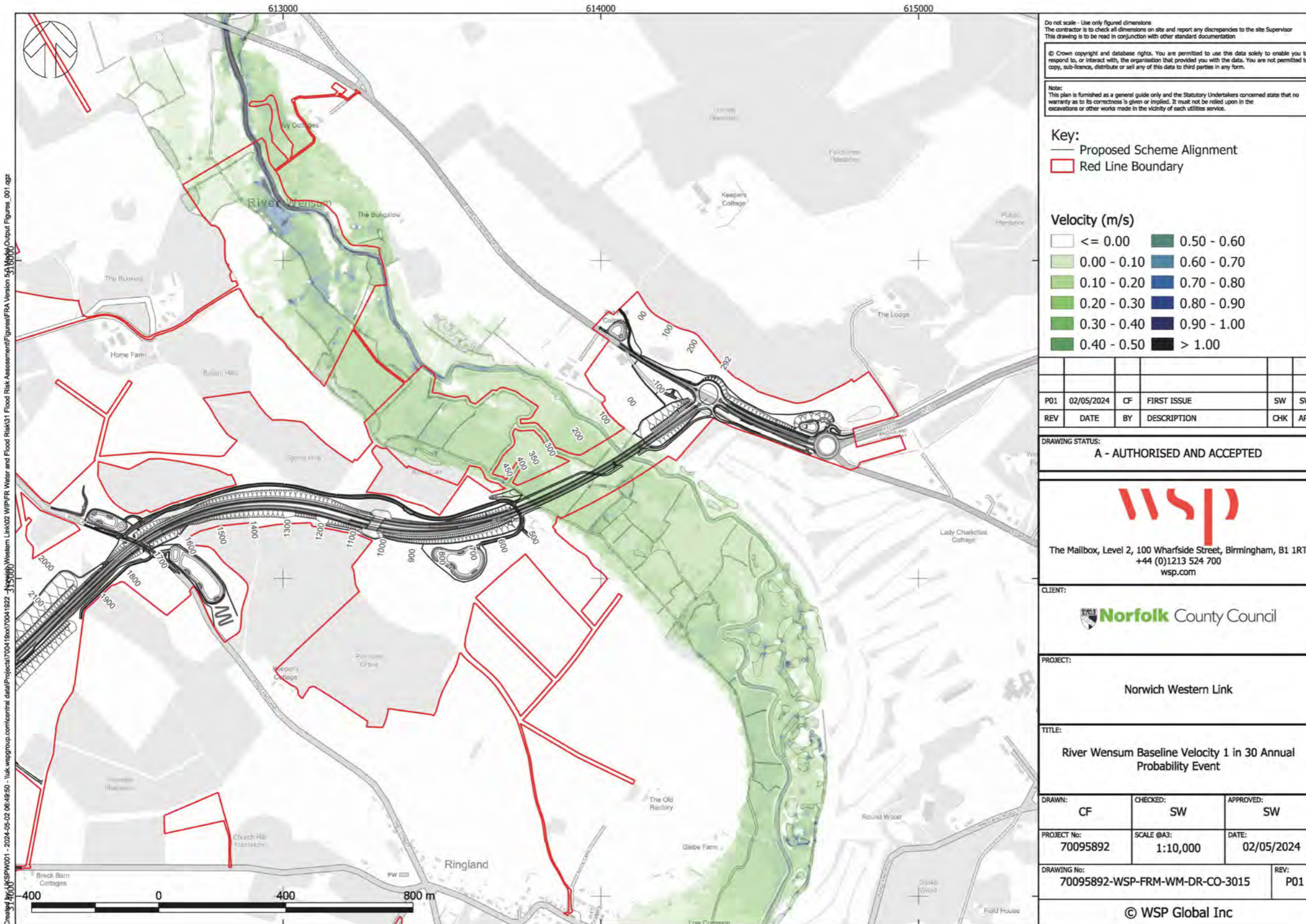
River Wensum baseline velocity 1 in 2 annual probability event



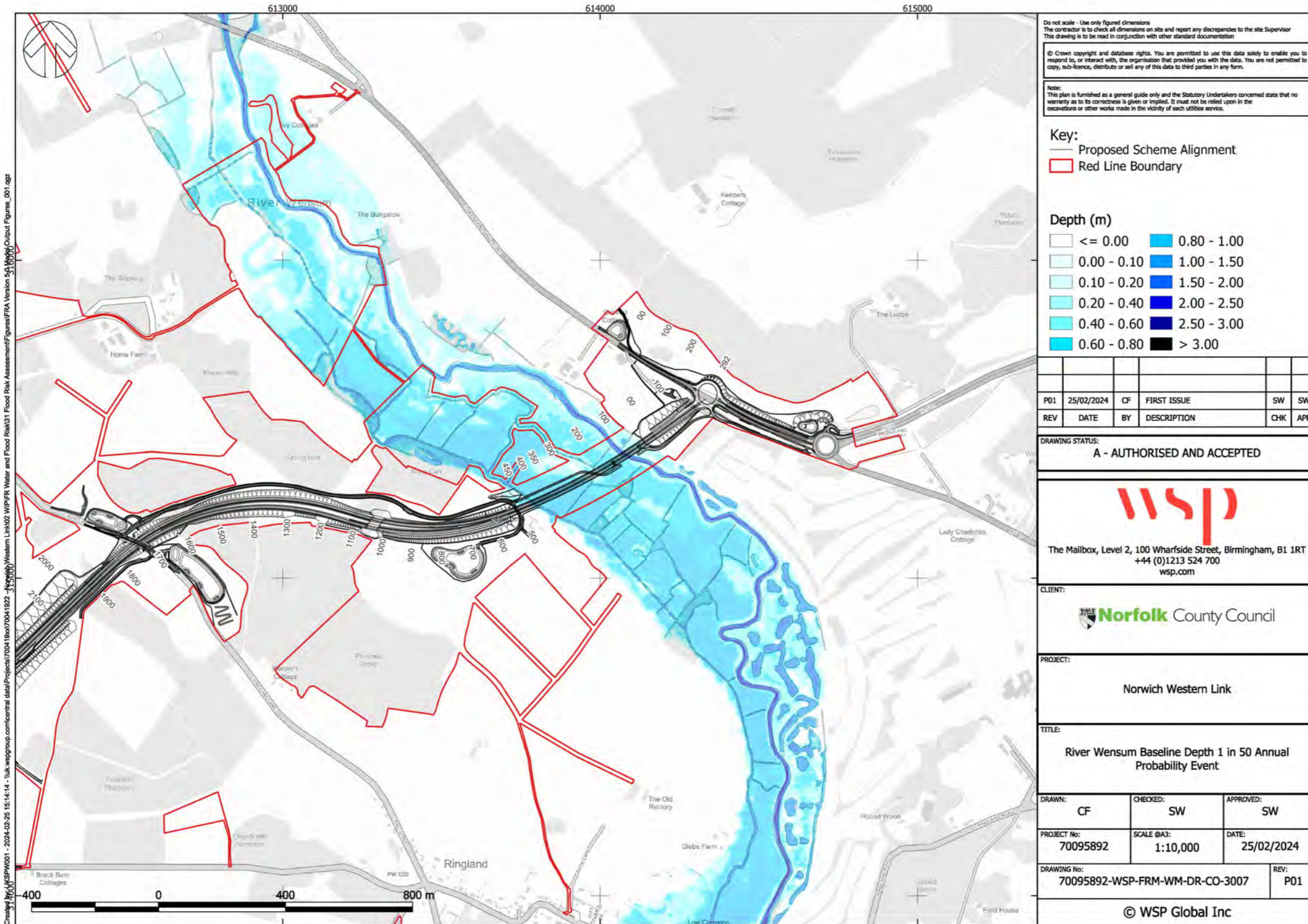
River Wensum baseline velocity 1 in 5 annual probability event



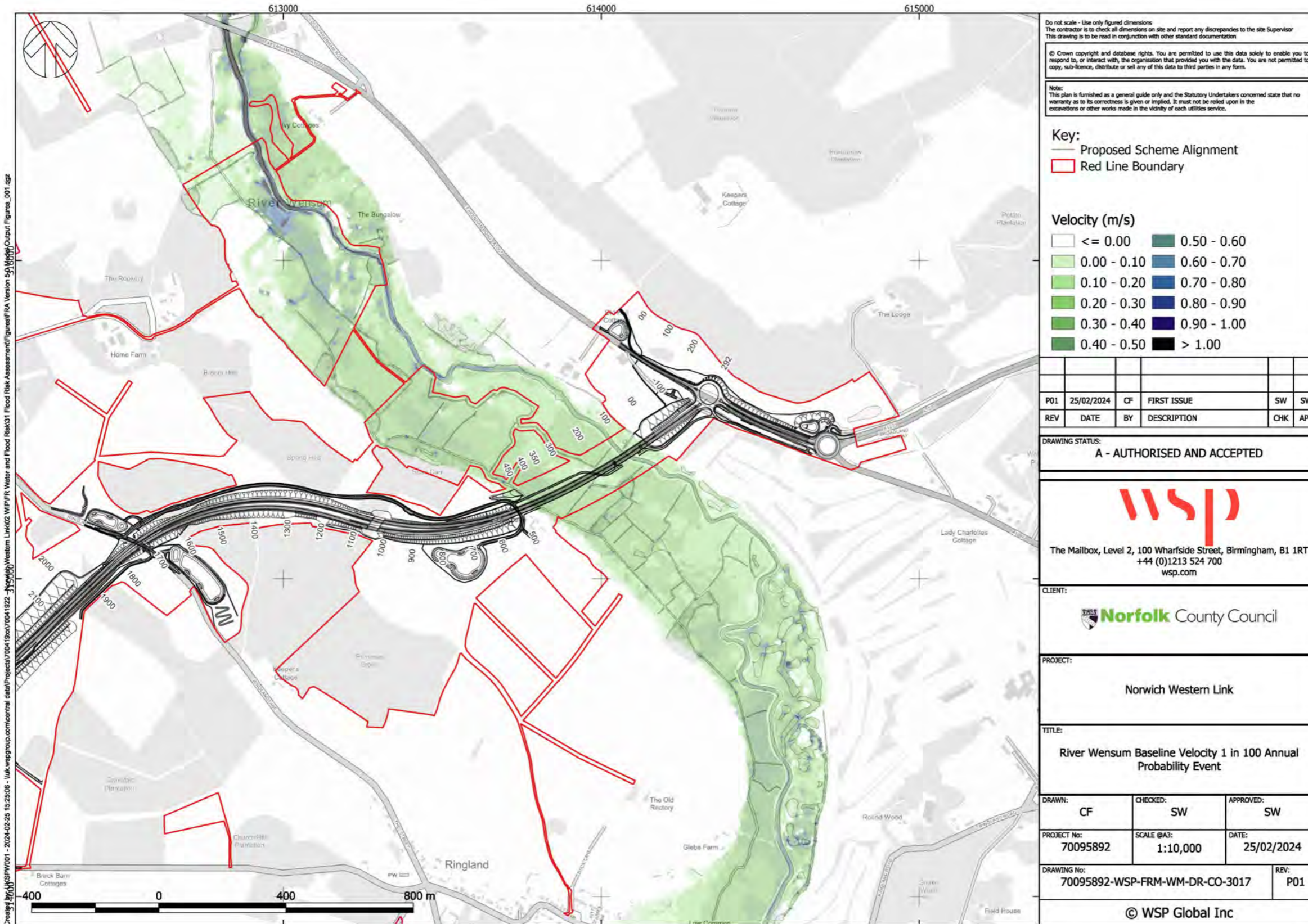
River Wensum baseline velocity 1 in 30 annual probability event



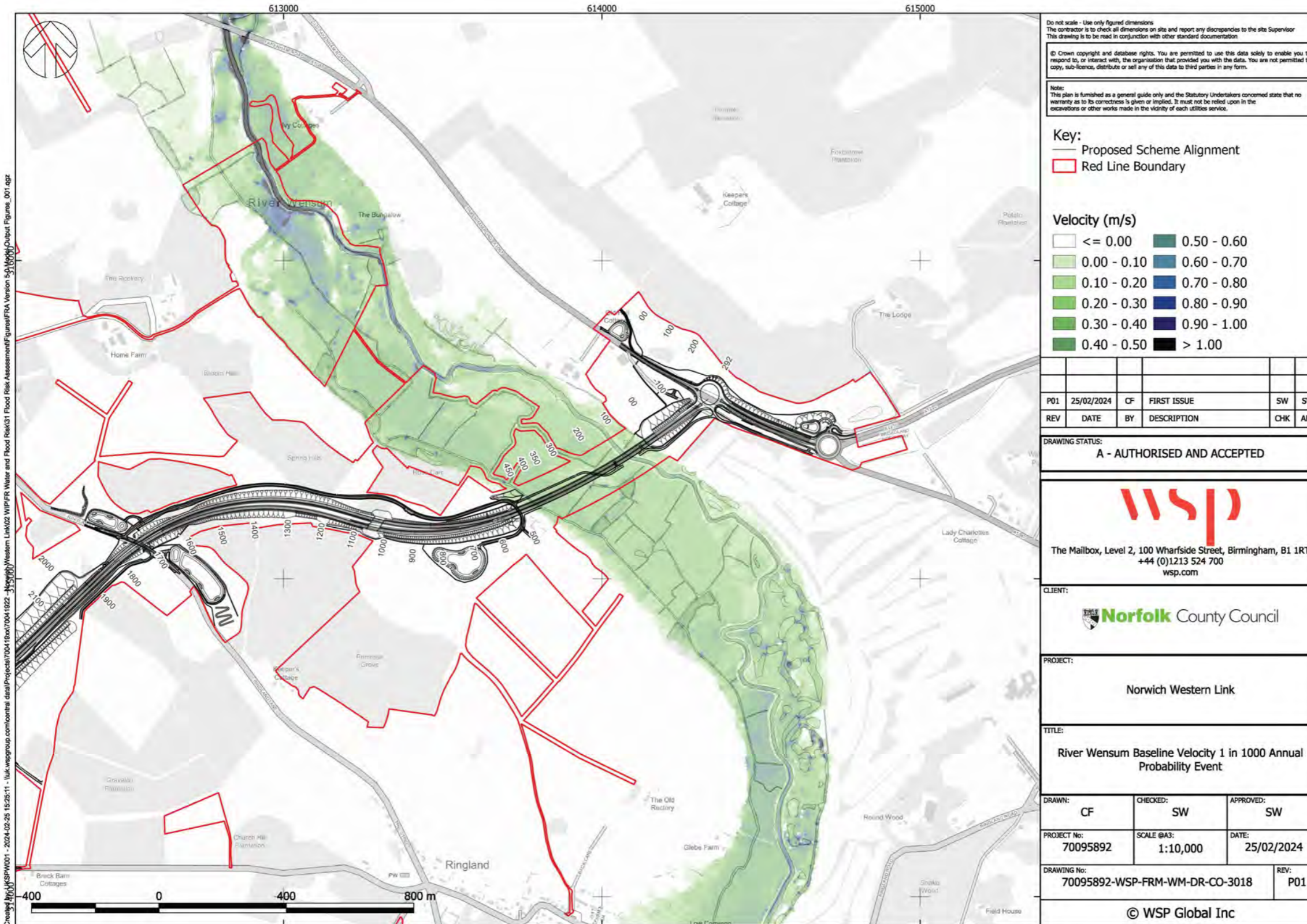
River Wensum baseline velocity 1 in 50 annual probability event



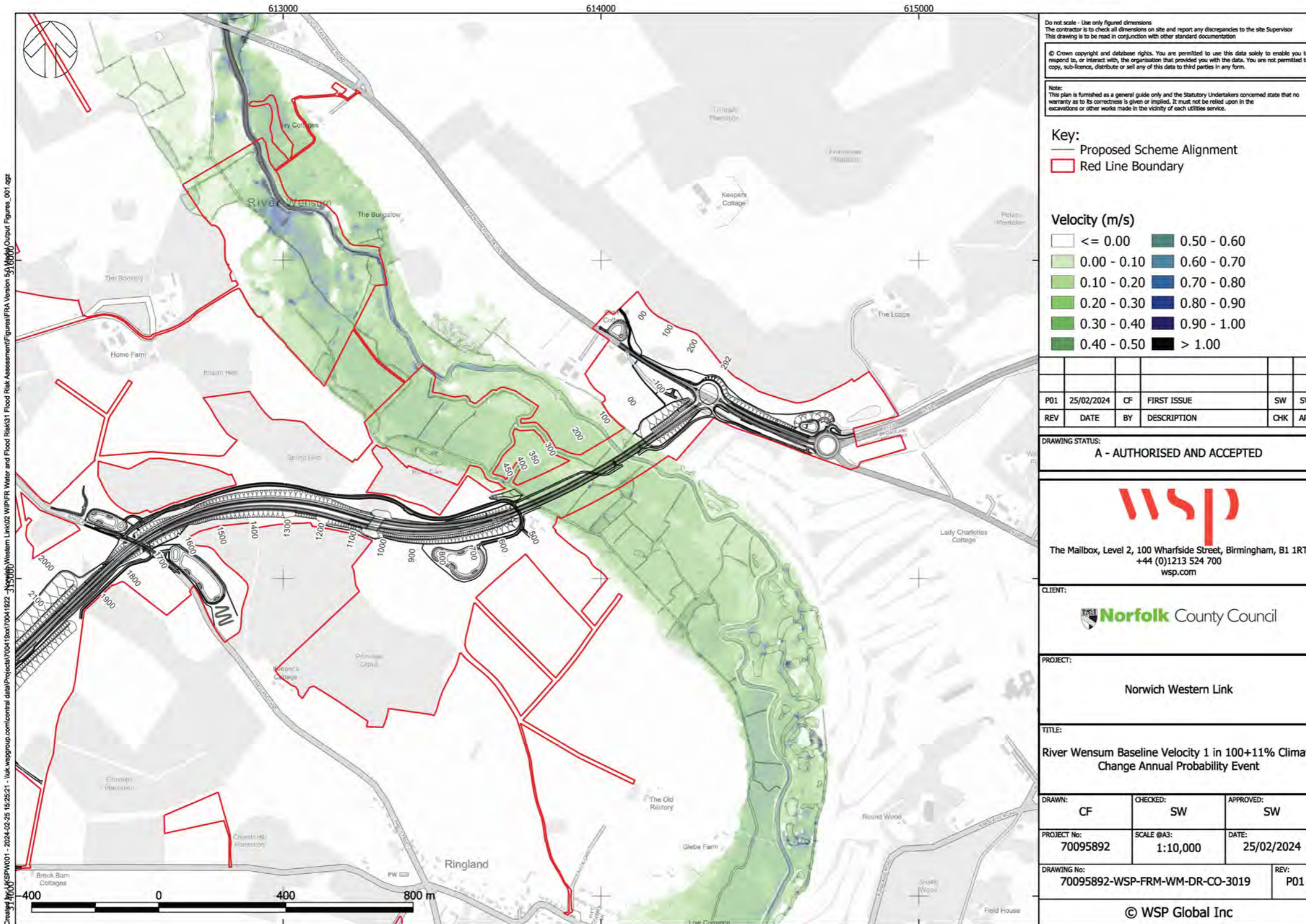
River Wensum baseline velocity 1 in 100 annual probability event



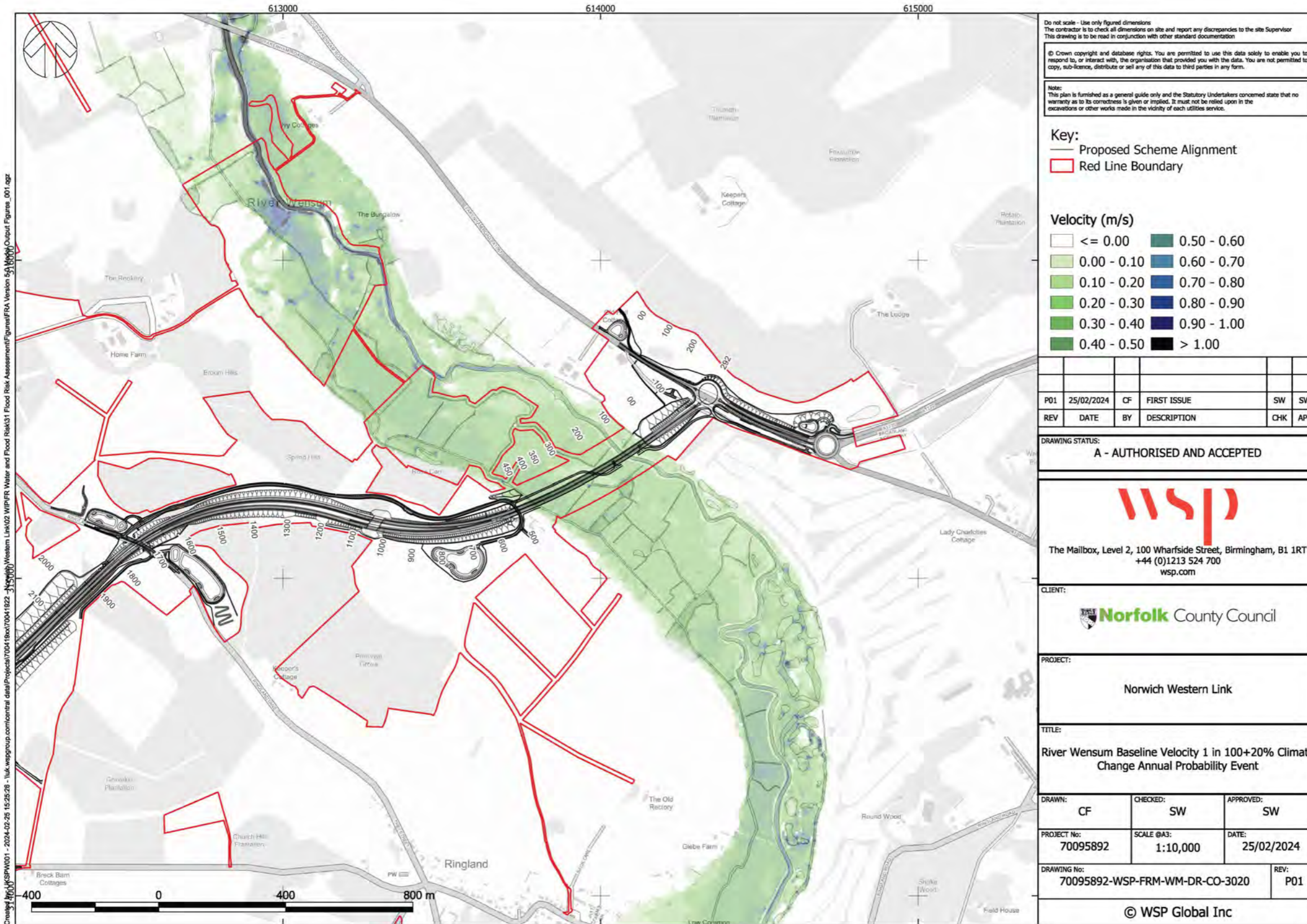
River Wensum baseline velocity 1 in 1000 annual probability event



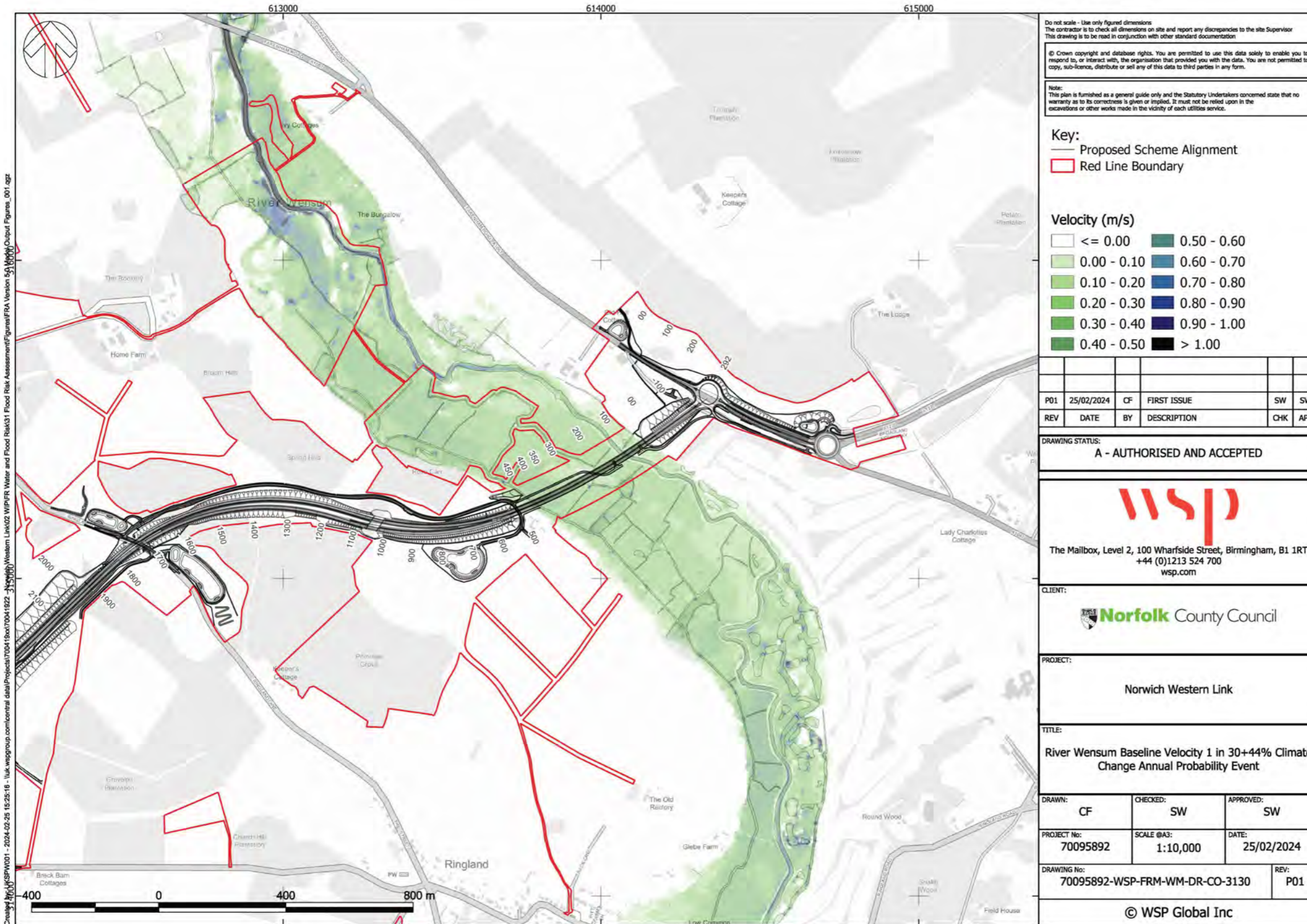
River Wensum baseline velocity 1 in 100+11% annual probability event



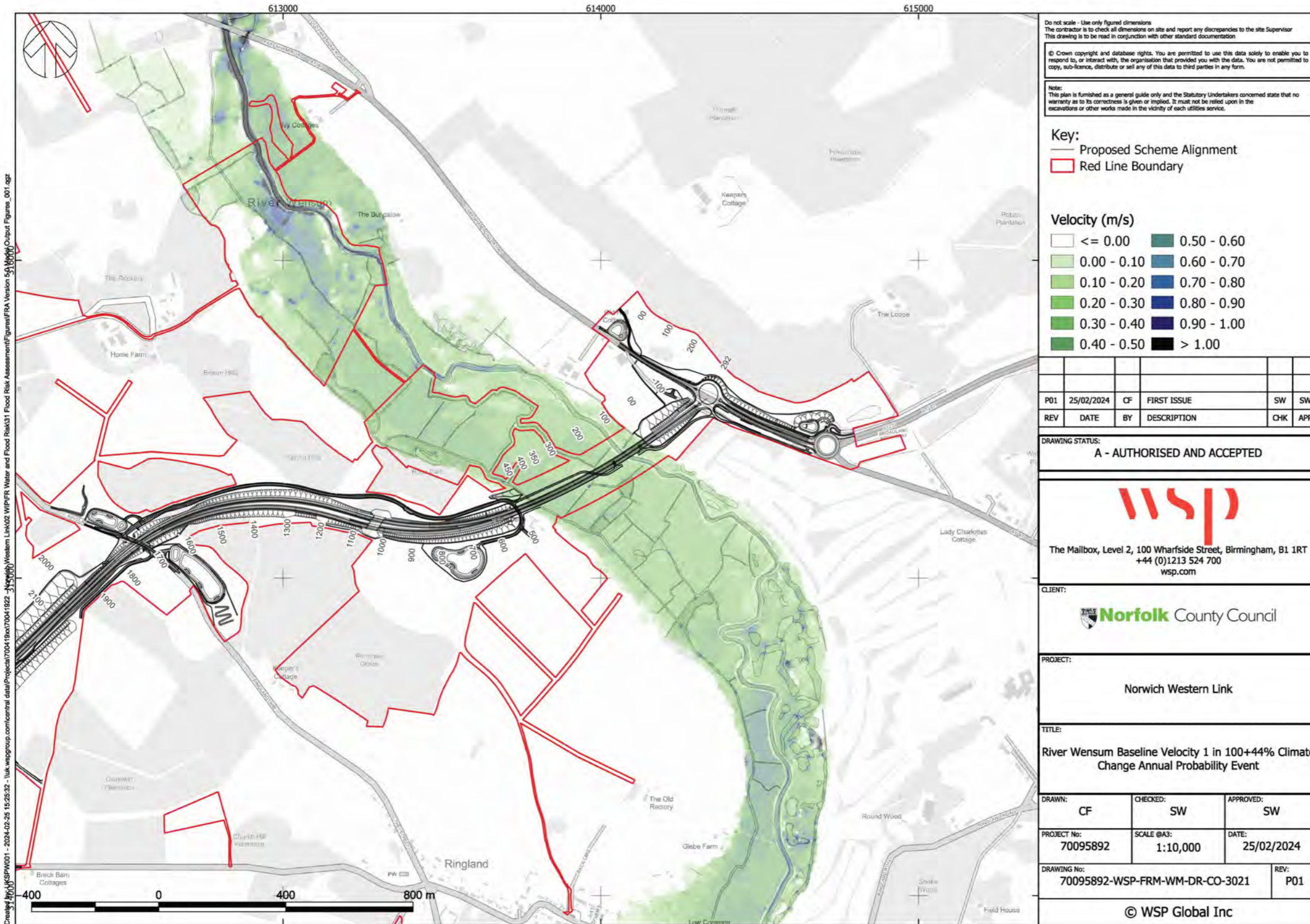
River Wensum baseline velocity 1 in 100+20% annual probability event



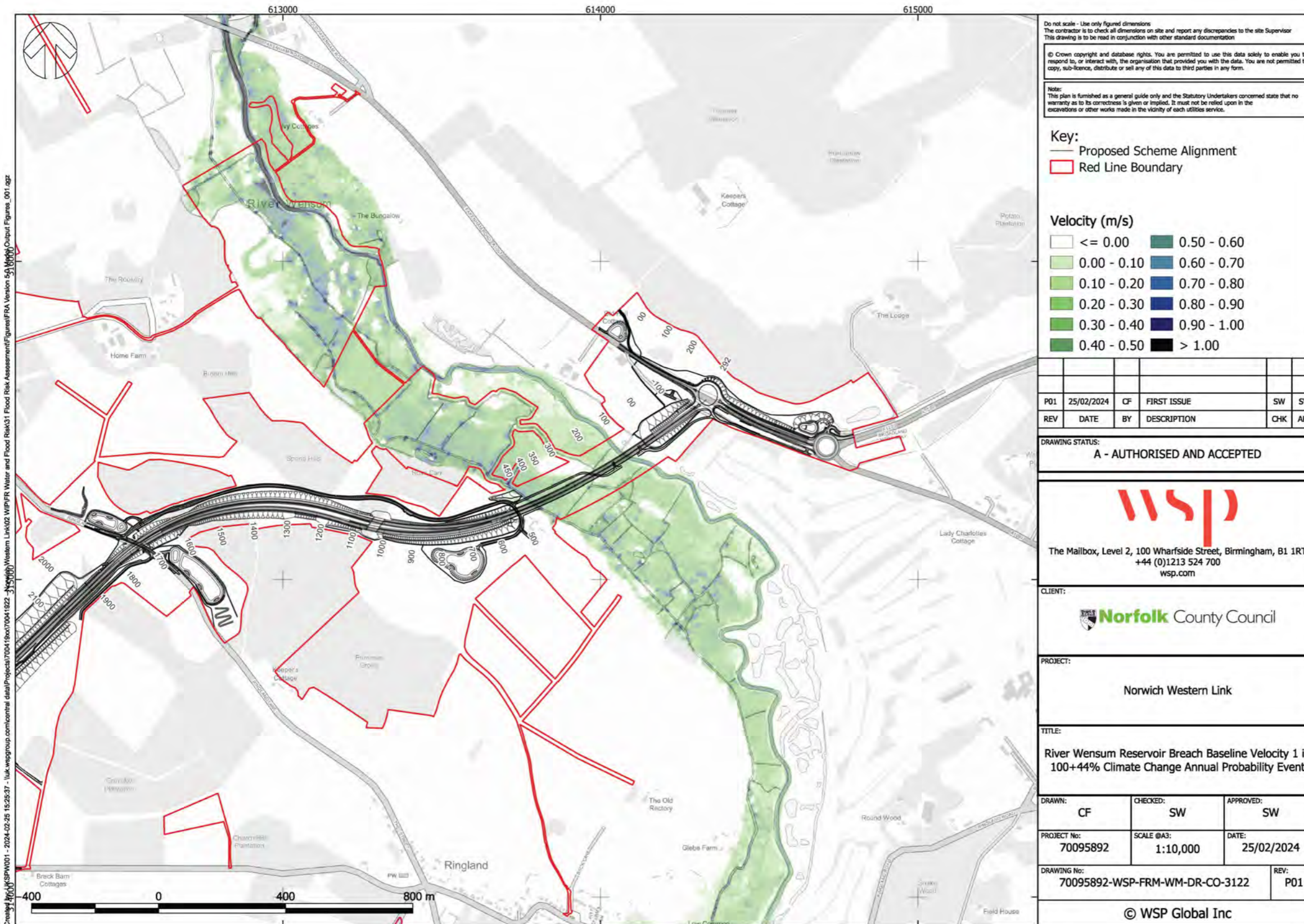
River Wensum baseline velocity 1 in 30+44% annual probability event



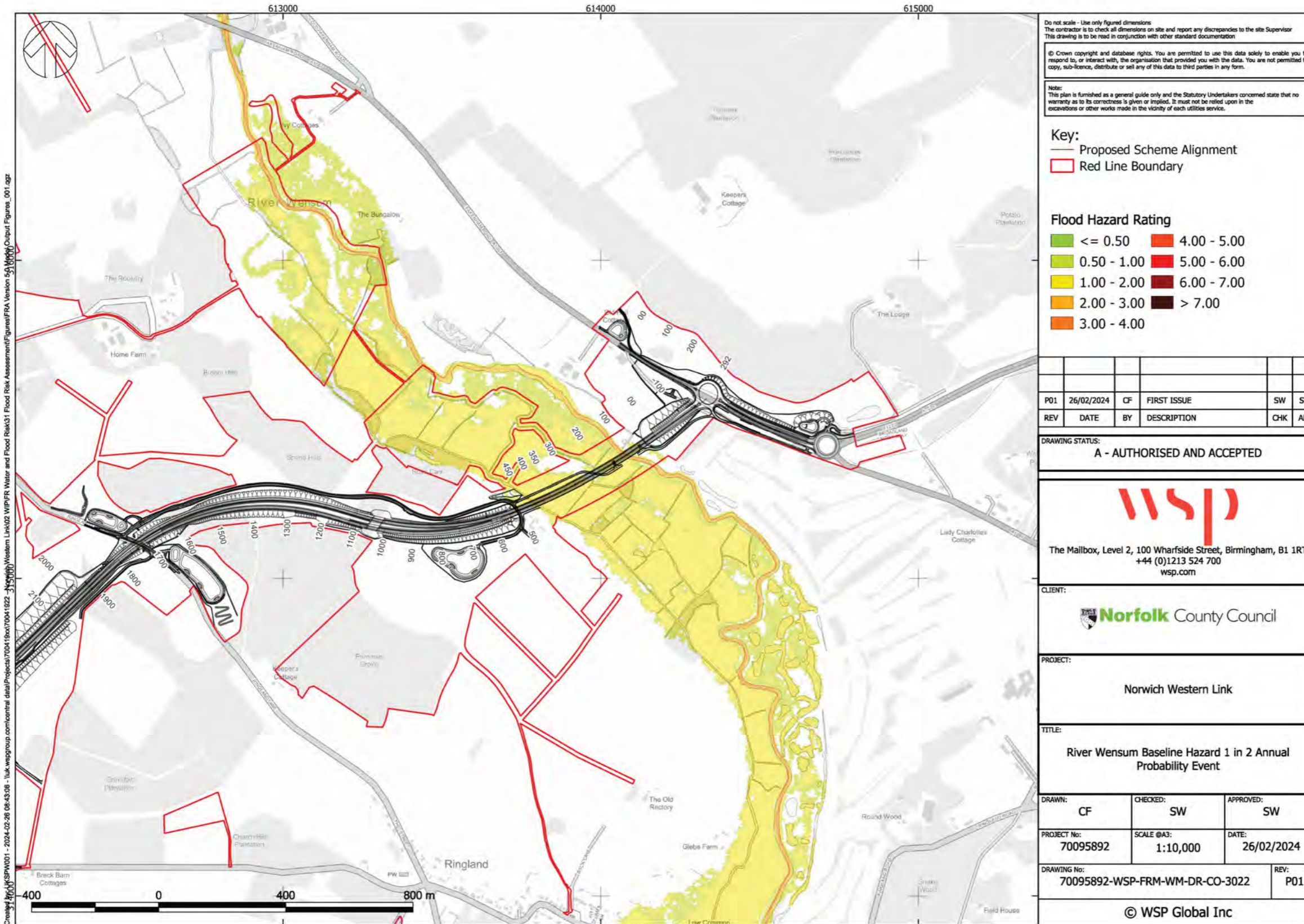
River Wensum baseline velocity 1 in 100+44% annual probability event



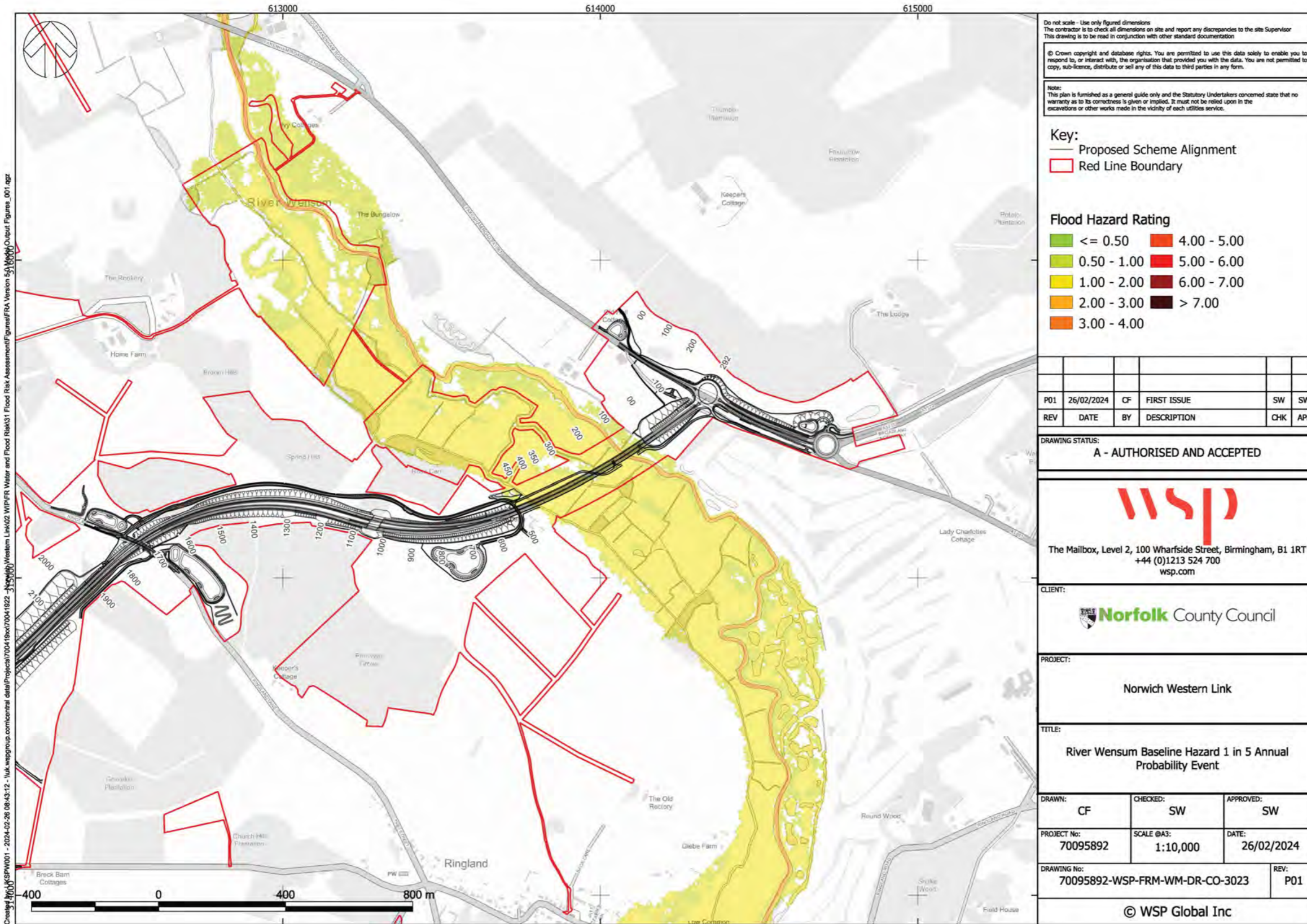
River Wensum reservoir breach baseline velocity 1 in 100+44% annual probability event



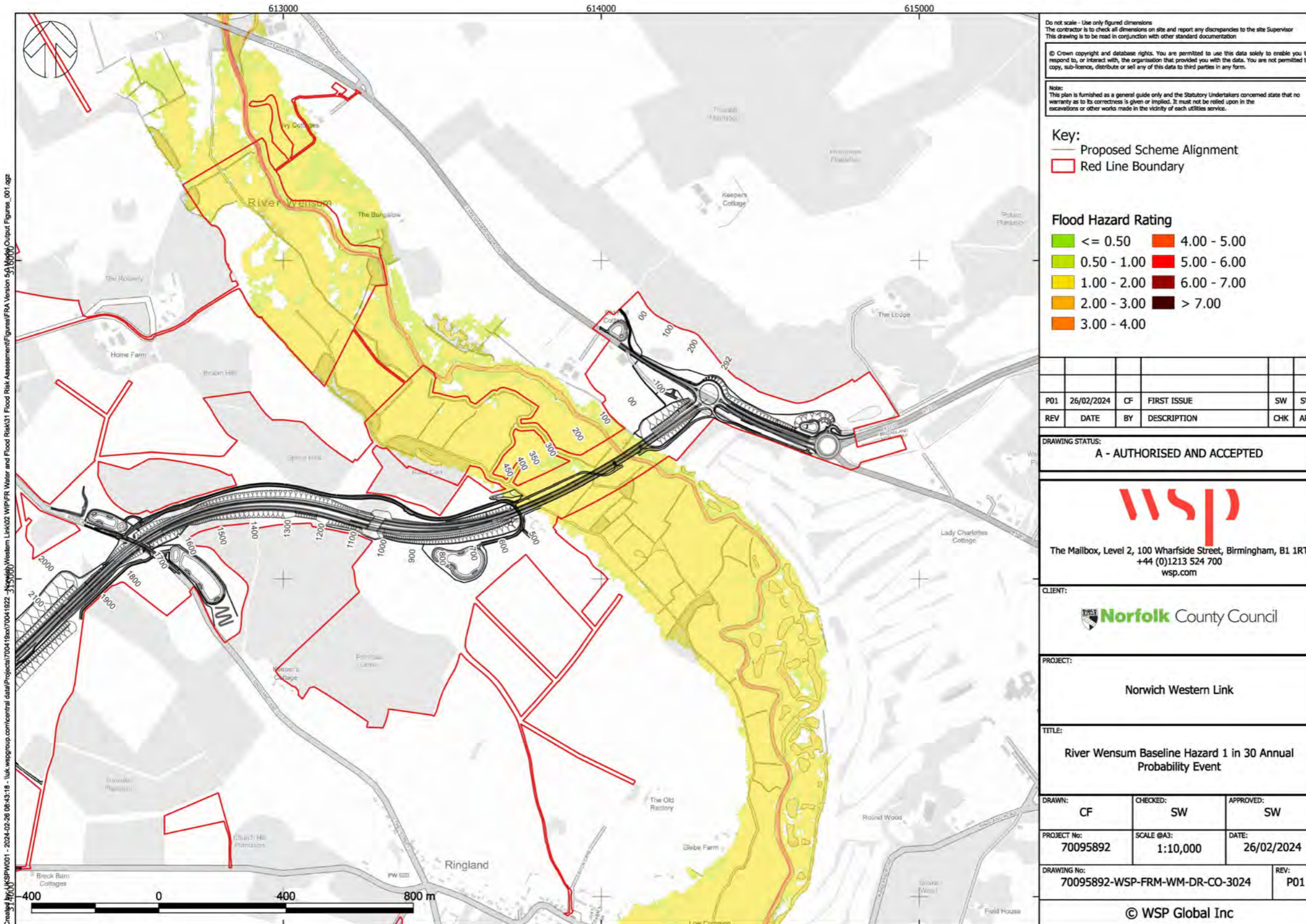
River Wensum baseline hazard 1 in 2 annual probability event



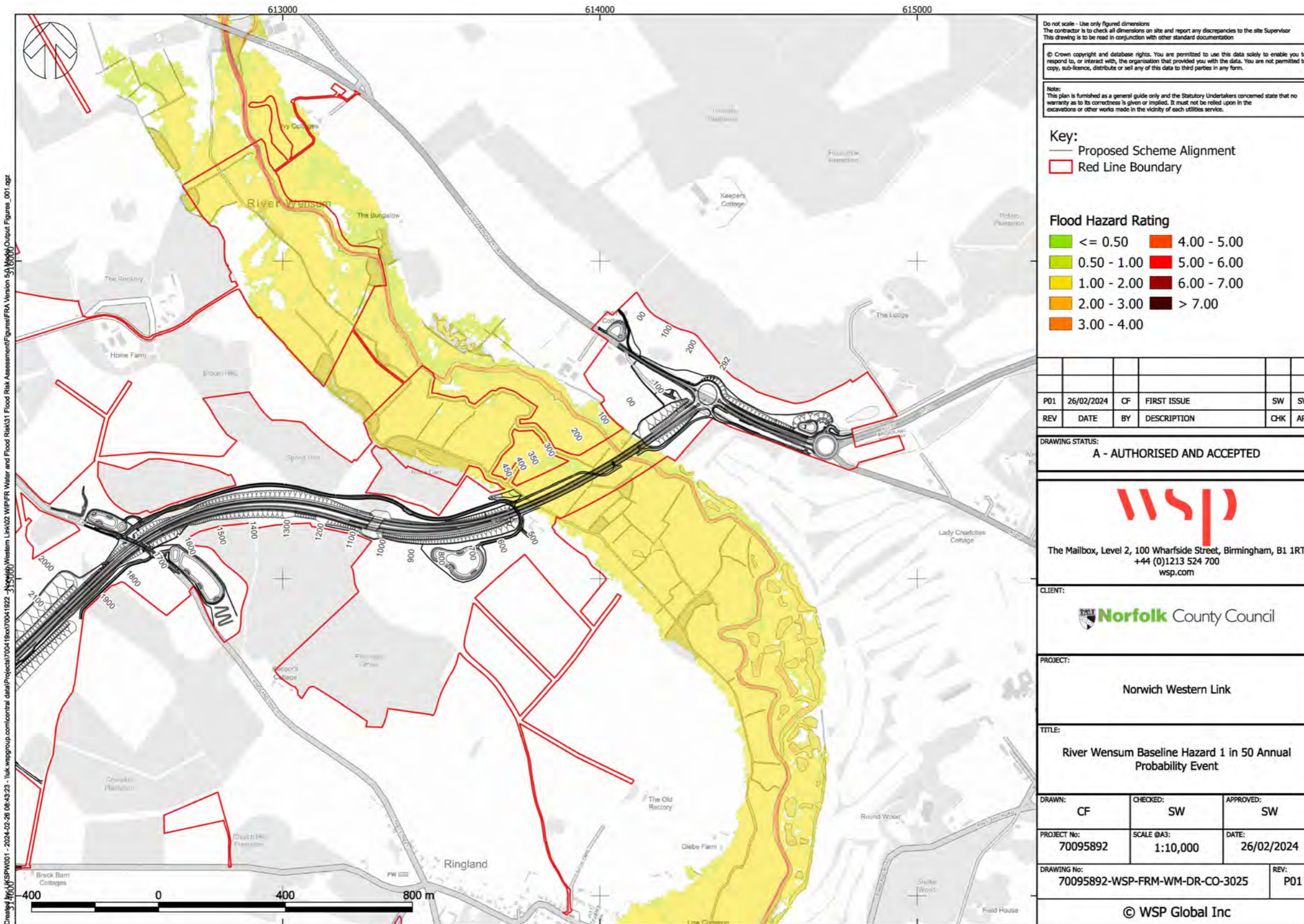
River Wensum baseline hazard 1 in 5 annual probability event



River Wensum baseline hazard 1 in 30 annual probability event





River Wensum baseline hazard 1 in 50 annual probability event












Do not scale - Use only figured dimensions
The contractor is to check all dimensions on site and report any discrepancies to the site Supervisor
This drawing is to be read in conjunction with other standard documentation

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Key:
 Proposed Scheme Alignment
 Red Line Boundary

Flood Hazard Rating

 <= 0.50	 4.00 - 5.00
 0.50 - 1.00	 5.00 - 6.00
 1.00 - 2.00	 6.00 - 7.00
 2.00 - 3.00	 > 7.00
 3.00 - 4.00	

REV	DATE	BY	DESCRIPTION	CHK	APP
P01	26/02/2024	CF	FIRST ISSUE	SW	SW

DRAWING STATUS:
A - AUTHORISED AND ACCEPTED


 The Mailbox, Level 2, 100 Wharfedale Street, Birmingham, B1 1RT
 +44 (0)1213 524 700
 wsp.com

CLIENT:


PROJECT:
 Norwich Western Link

TITLE:
 River Wensum Baseline Hazard 1 in 50 Annual Probability Event

DRAWN: CF	CHECKED: SW	APPROVED: SW
PROJECT No: 70095892	SCALE @A3: 1:10,000	DATE: 26/02/2024

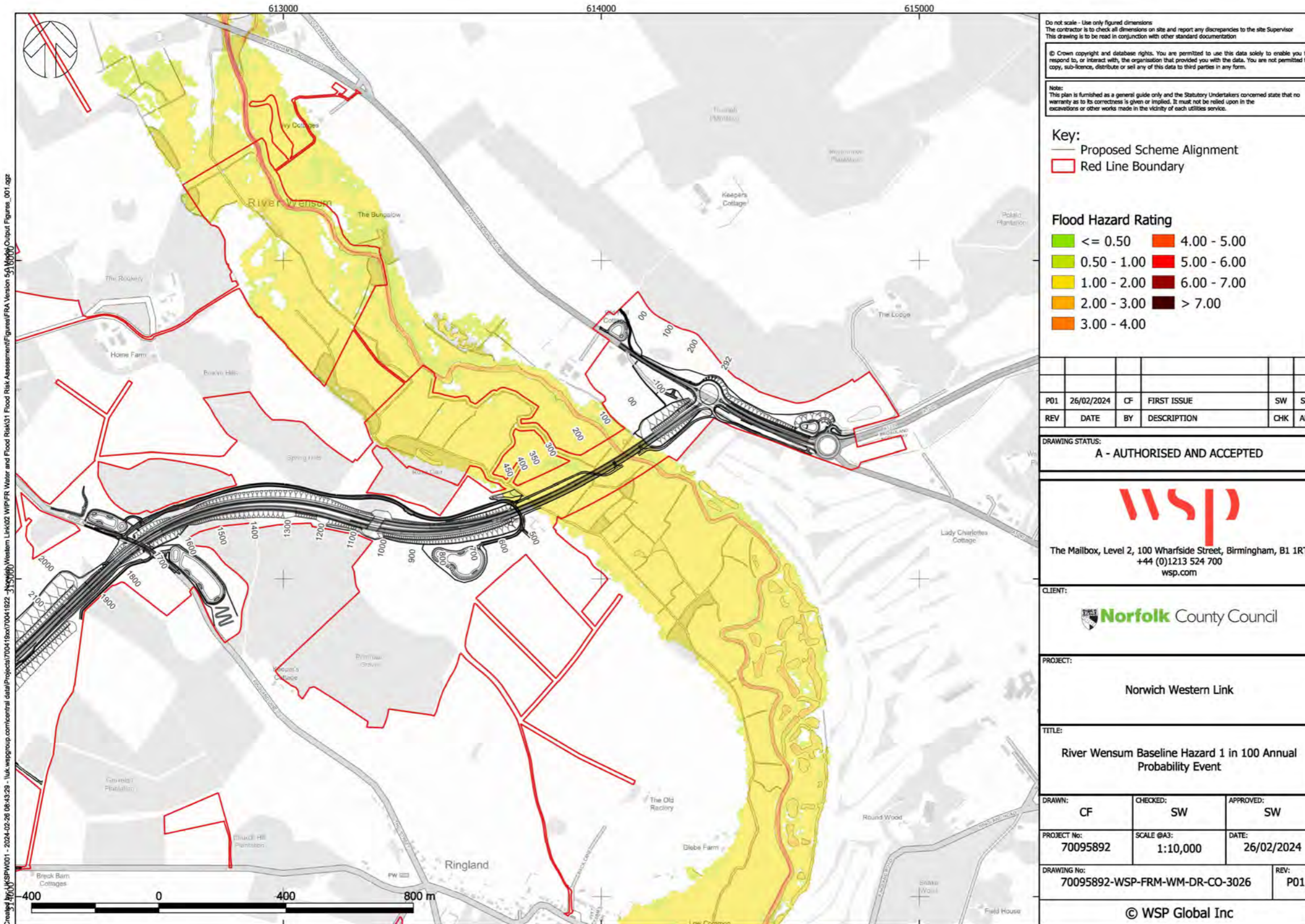
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REV:
P01

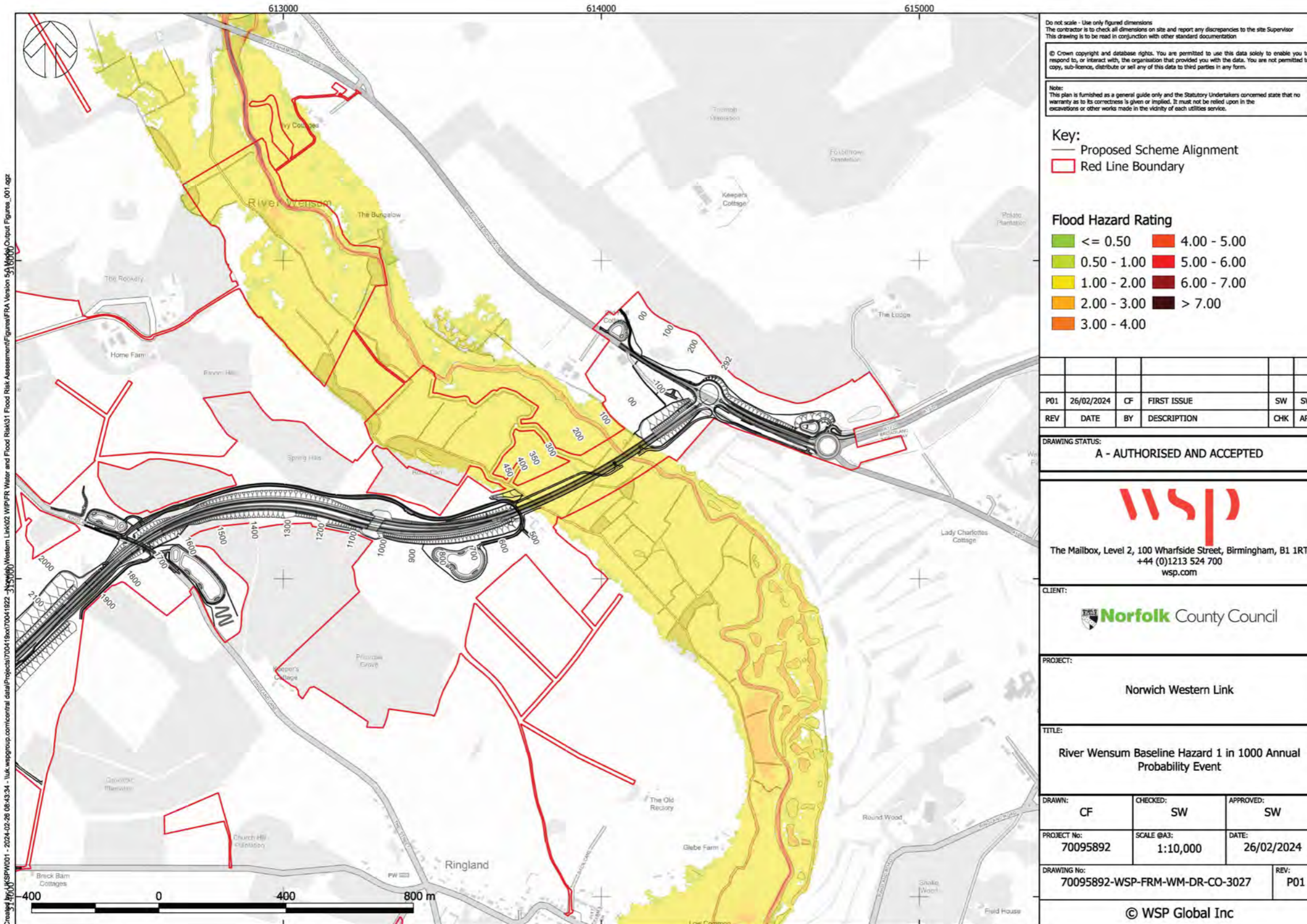
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Created by: JKSPH001 - 2024.02.26 08:43:23 - I:\uk.wspgroup.com\central_data\Projects\7004\FRM\70041822 - Norwich Western Link\WSPFR Water and Flood Risk\FRA Version 5.0\Model Output Figures_001.apx

River Wensum baseline hazard 1 in 100 annual probability event





River Wensum baseline hazard 1 in 1000 annual probability event



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Key:
 Proposed Scheme Alignment
 Red Line Boundary

Flood Hazard Rating

 <= 0.50	 4.00 - 5.00
 0.50 - 1.00	 5.00 - 6.00
 1.00 - 2.00	 6.00 - 7.00
 2.00 - 3.00	 > 7.00
 3.00 - 4.00	

REV	DATE	BY	DESCRIPTION	CHK	APP
P01	26/02/2024	CF	FIRST ISSUE	SW	SW

DRAWING STATUS:
A - AUTHORISED AND ACCEPTED


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+44 (0)1213 524 700
wsp.com

CLIENT:


PROJECT:
Norwich Western Link

TITLE:
River Wensum Baseline Hazard 1 in 1000 Annual Probability Event

DRAWN: CF	CHECKED: SW	APPROVED: SW
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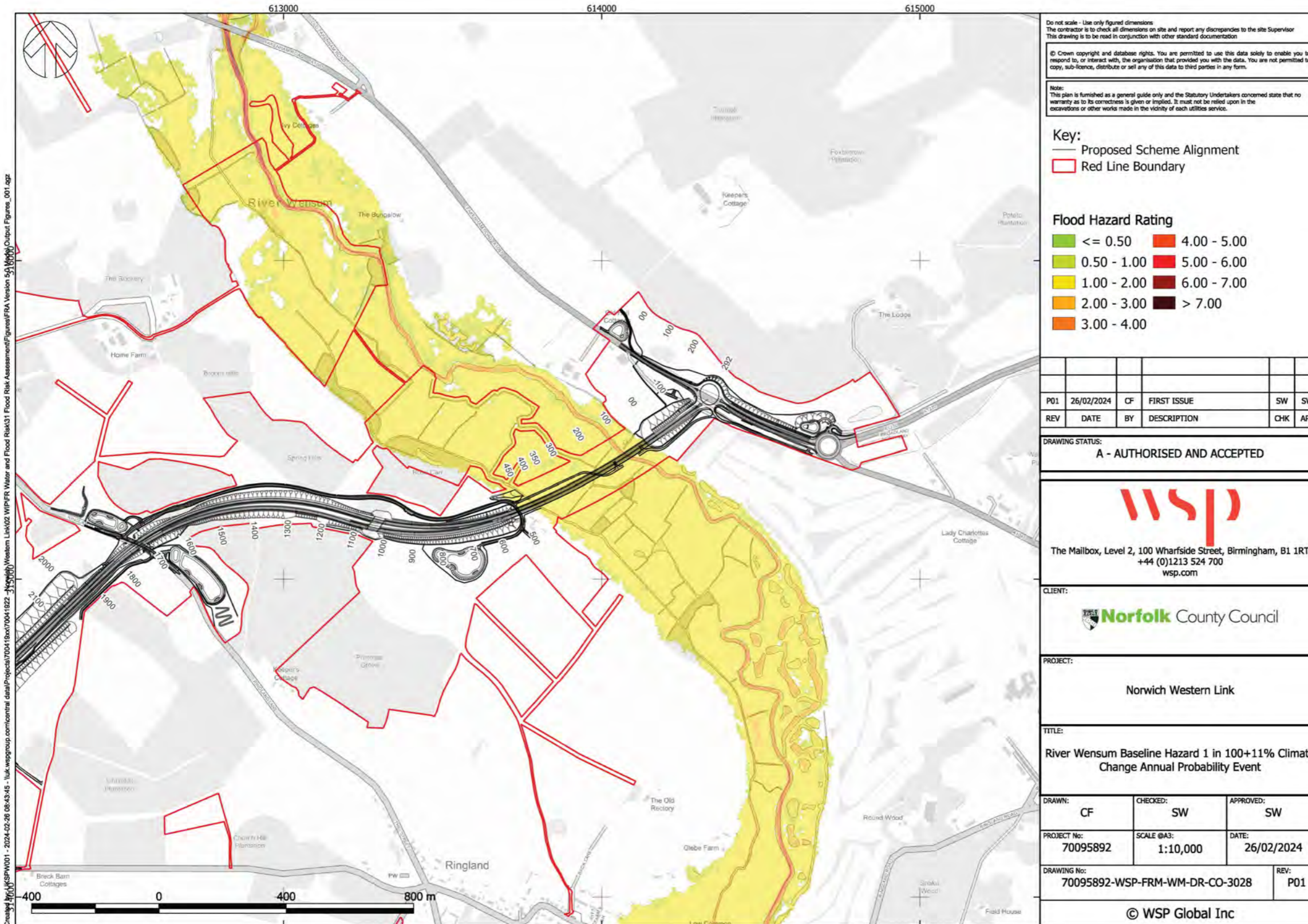
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DRAWING No: 70095892-WSP-FRM-WM-DR-CO-3027	REV: P01
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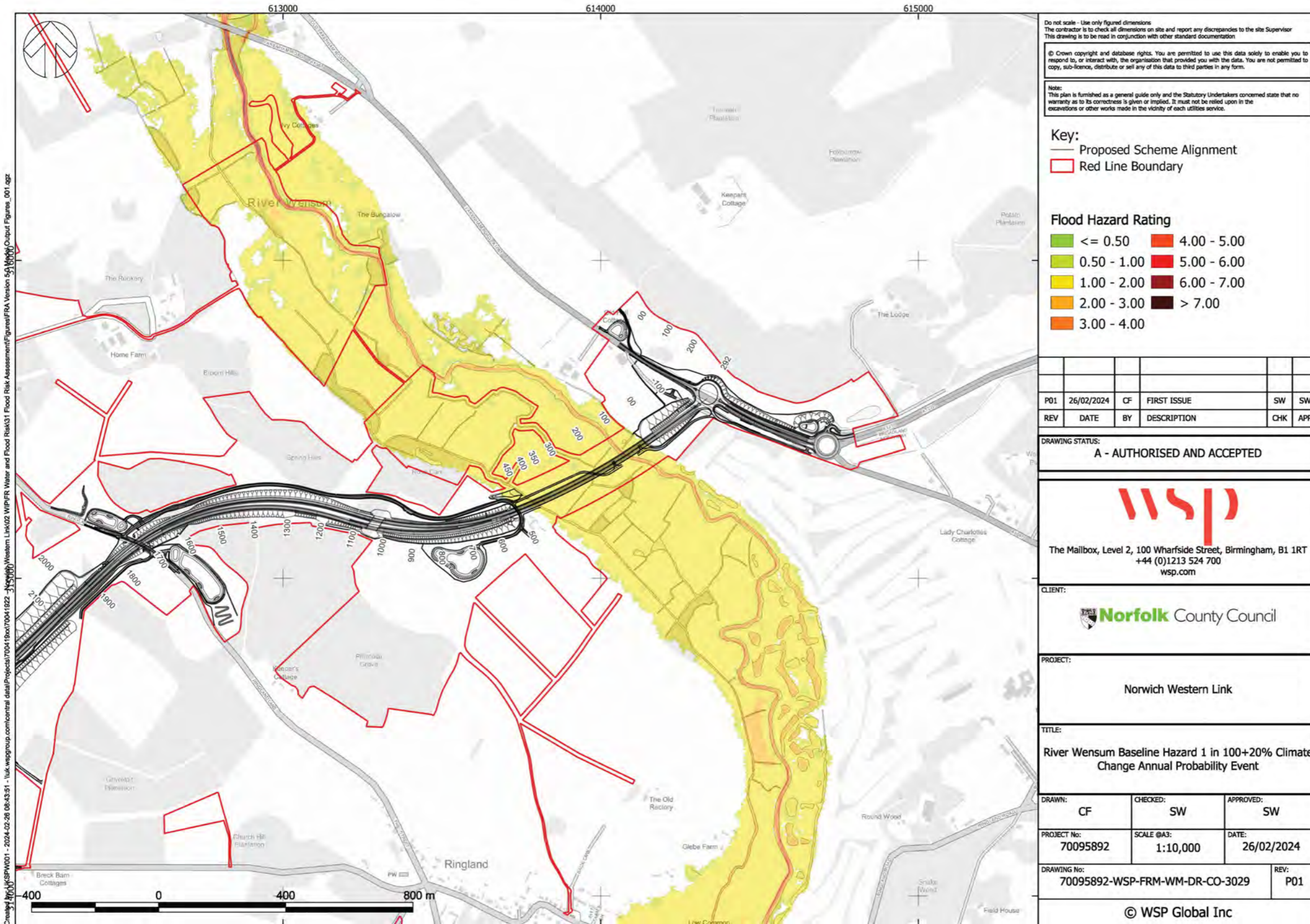
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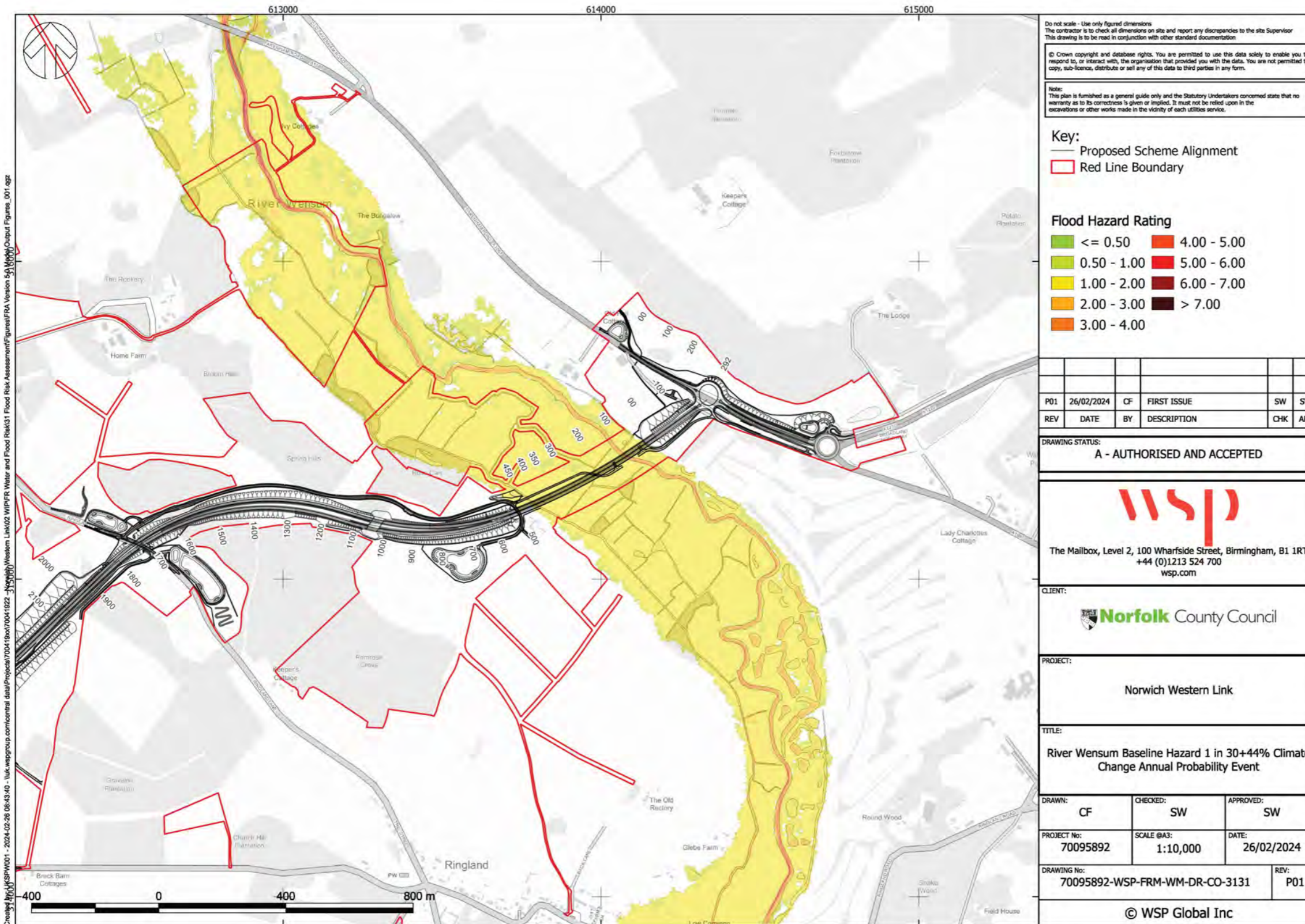
River Wensum baseline hazard 1 in 100+11% annual probability event



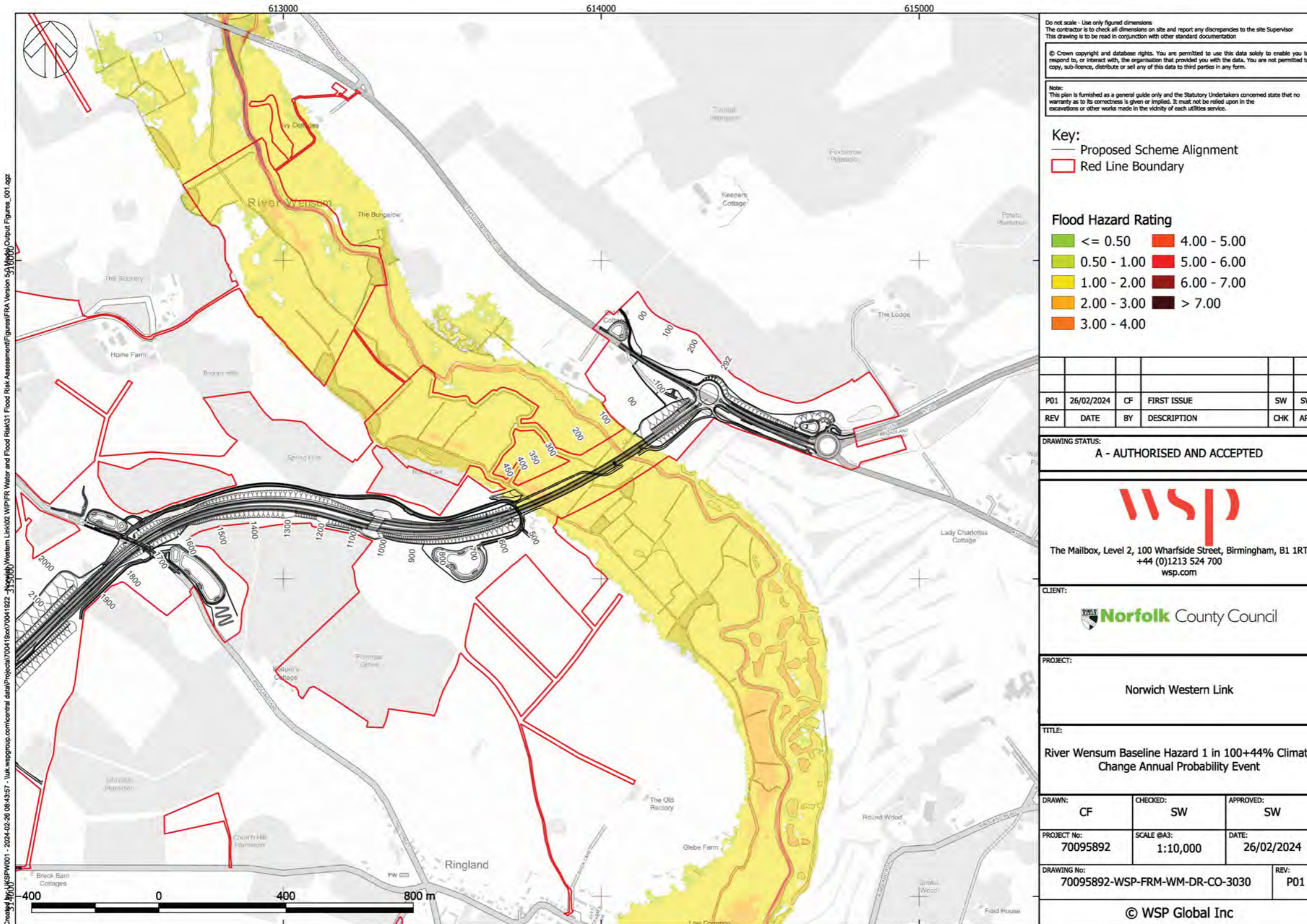
River Wensum baseline hazard 1 in 100+20% annual probability event



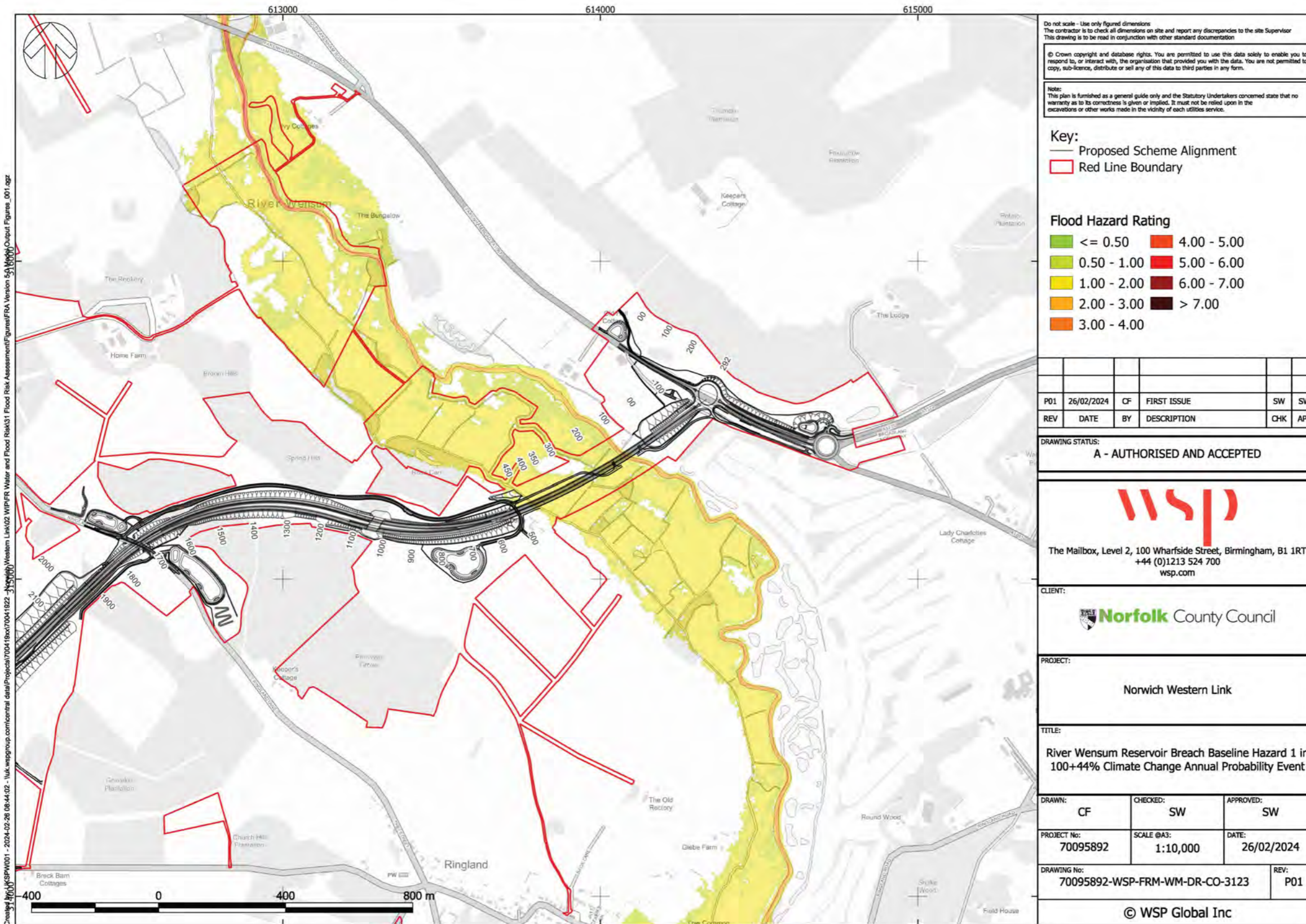
River Wensum baseline hazard 1 in 30+44% annual probability event



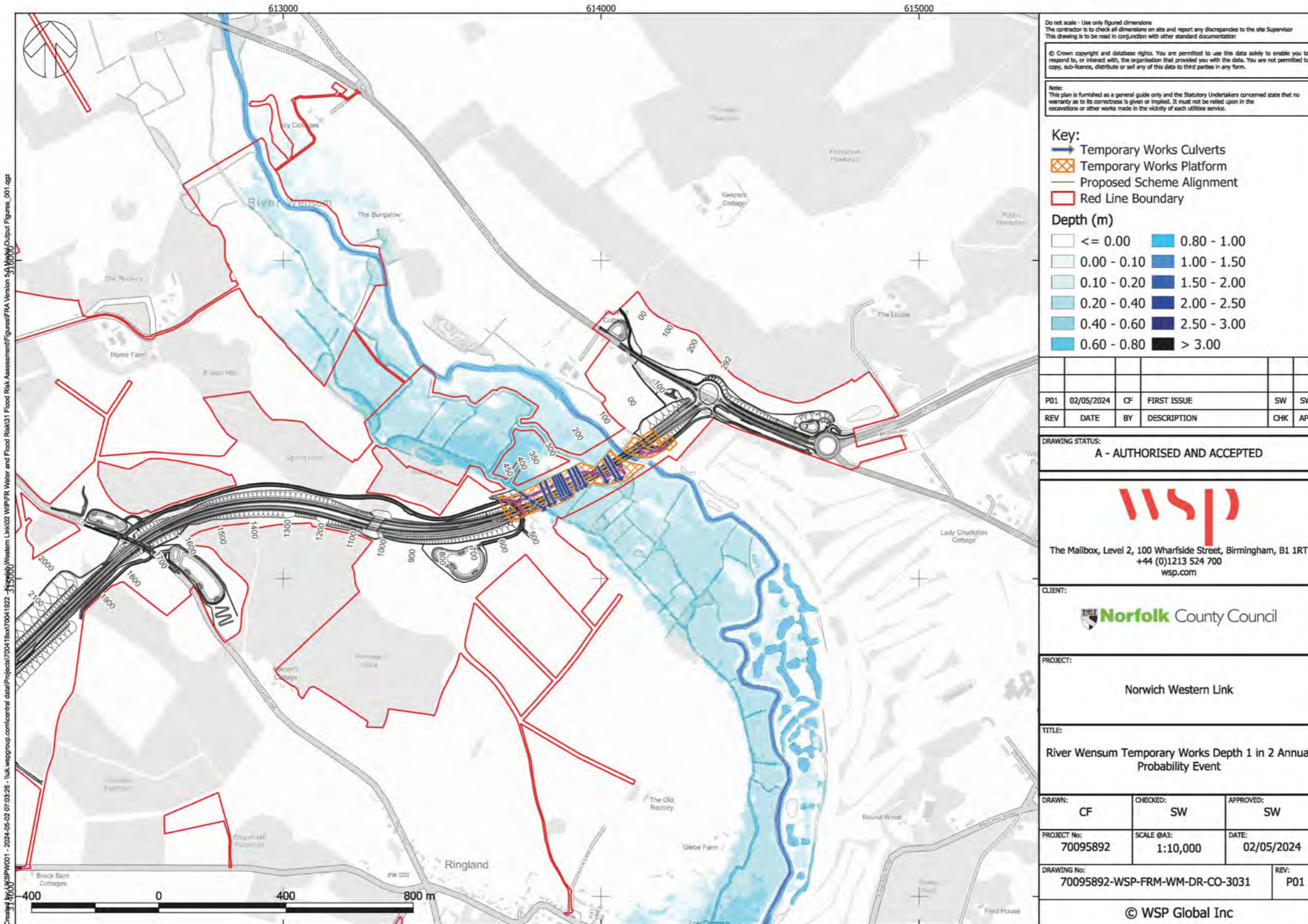
River Wensum baseline hazard 1 in 100+44% annual probability event



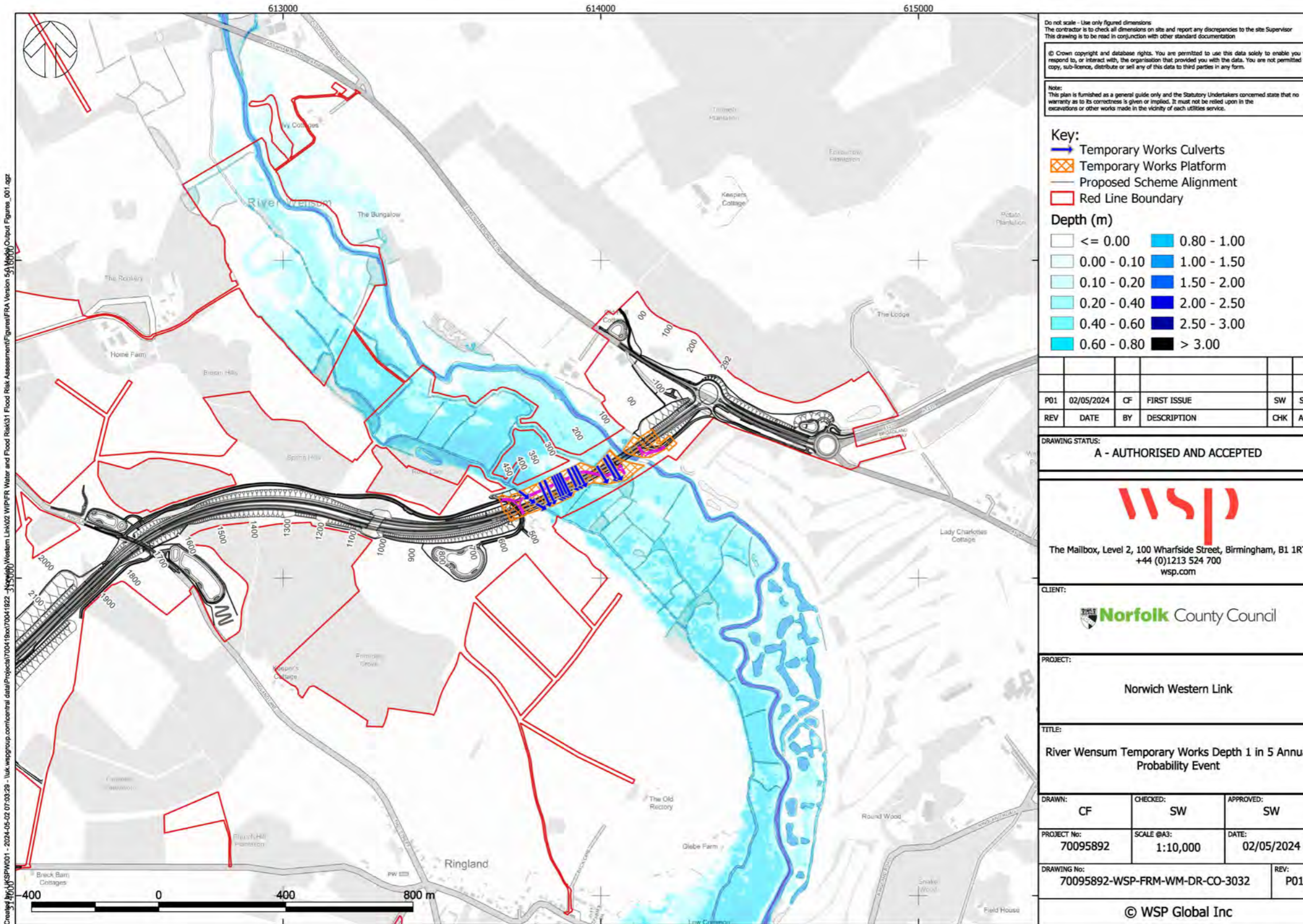
River Wensum Reservoir breach baseline hazard 1 in 100+44% annual probability event



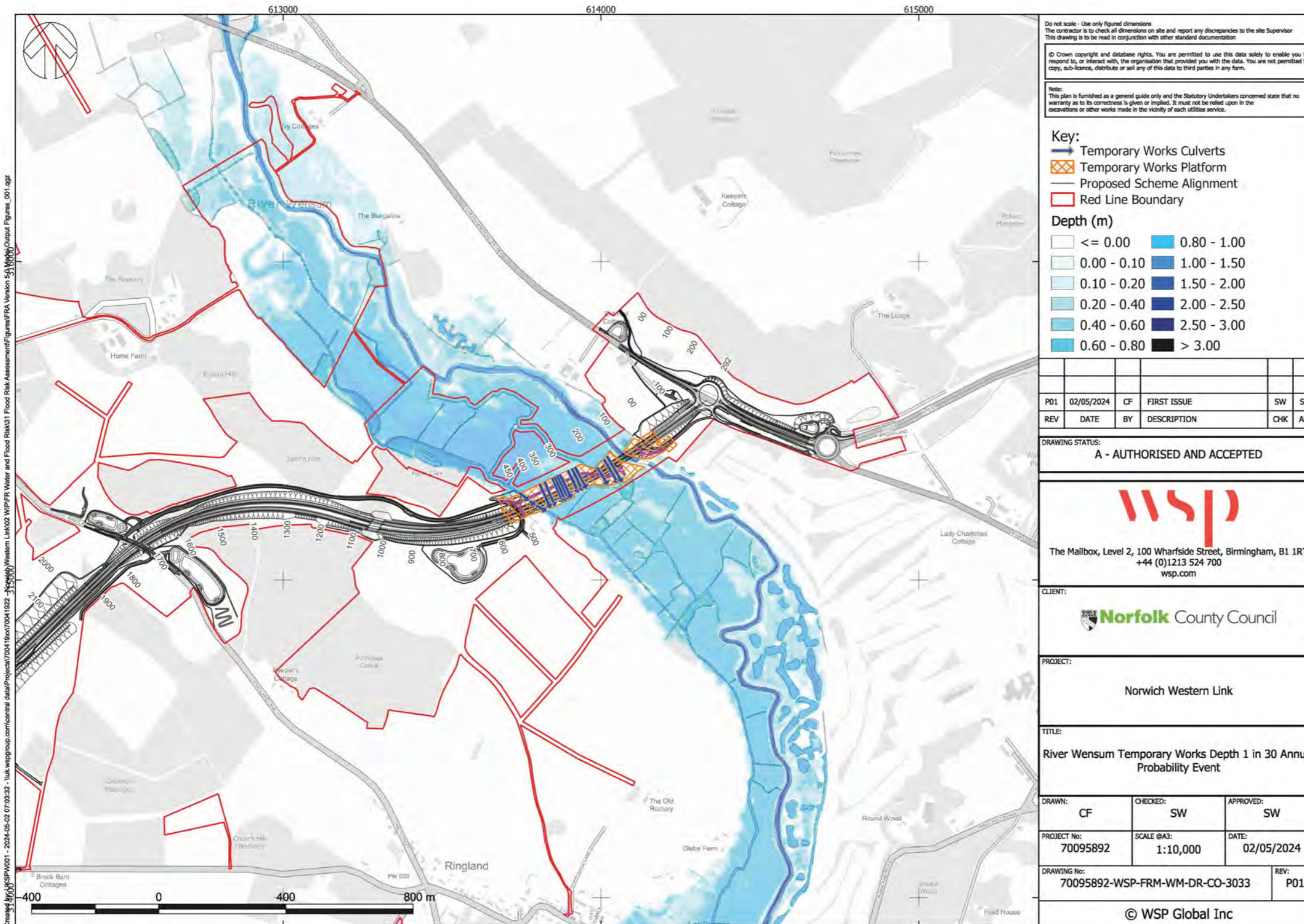
River Wensum temporary works depth 1 in 2 annual probability event



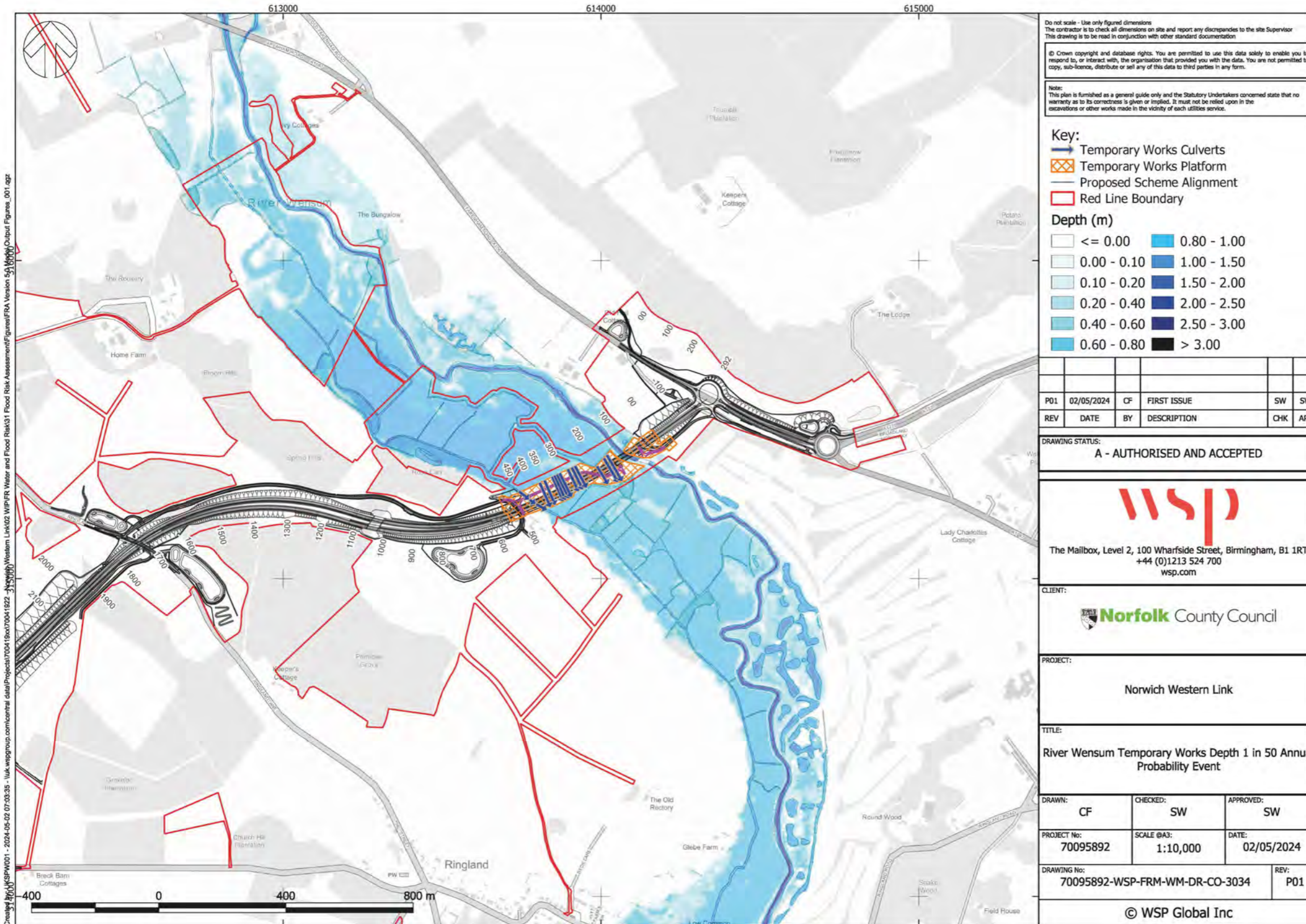
River Wensum temporary works depth 1 in 5 annual probability event



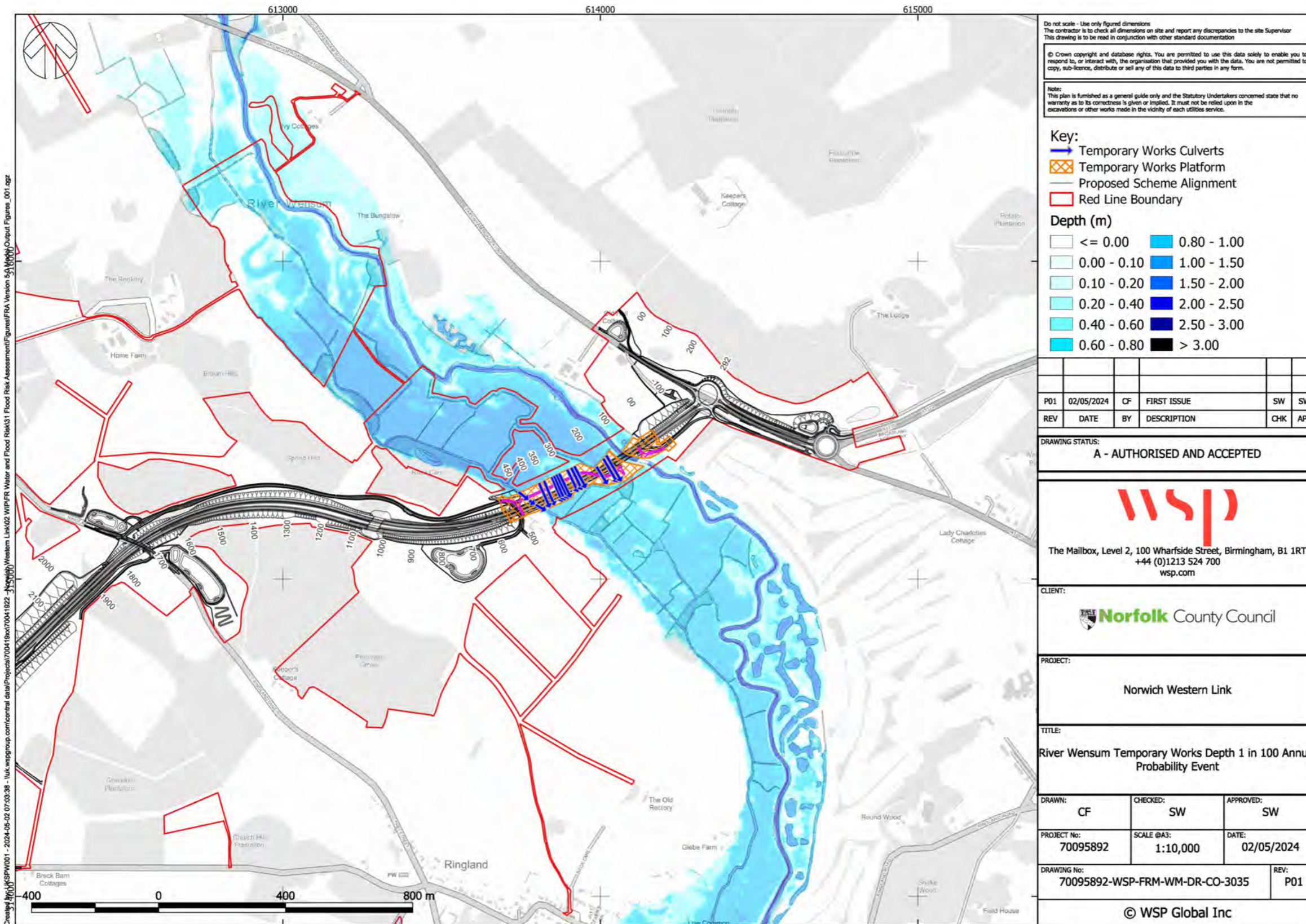
River Wensum temporary works depth 1 in 30 annual probability event



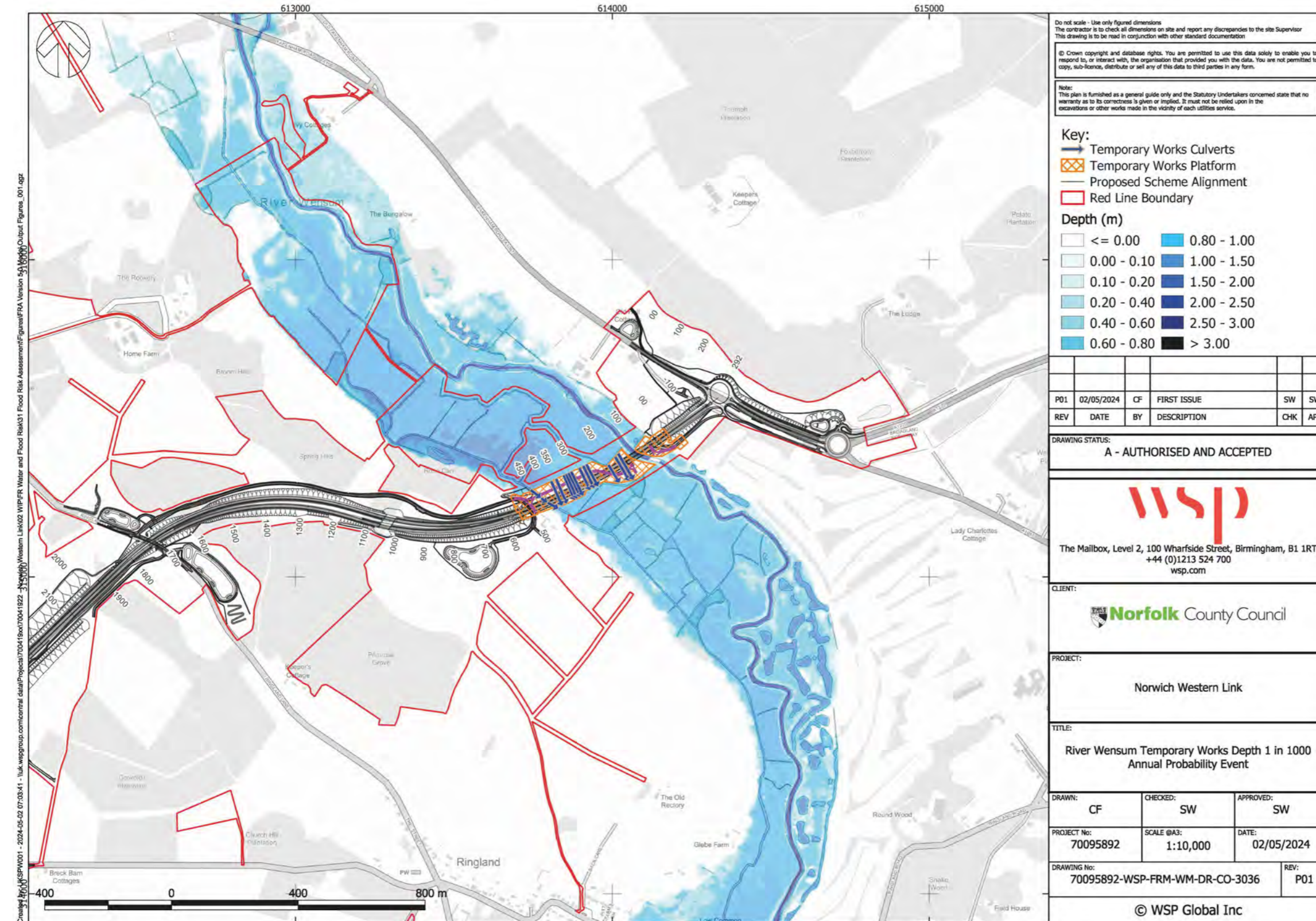
River Wensum temporary works depth 1 in 50 annual probability event



River Wensum temporary works depth 1 in 100 annual probability event

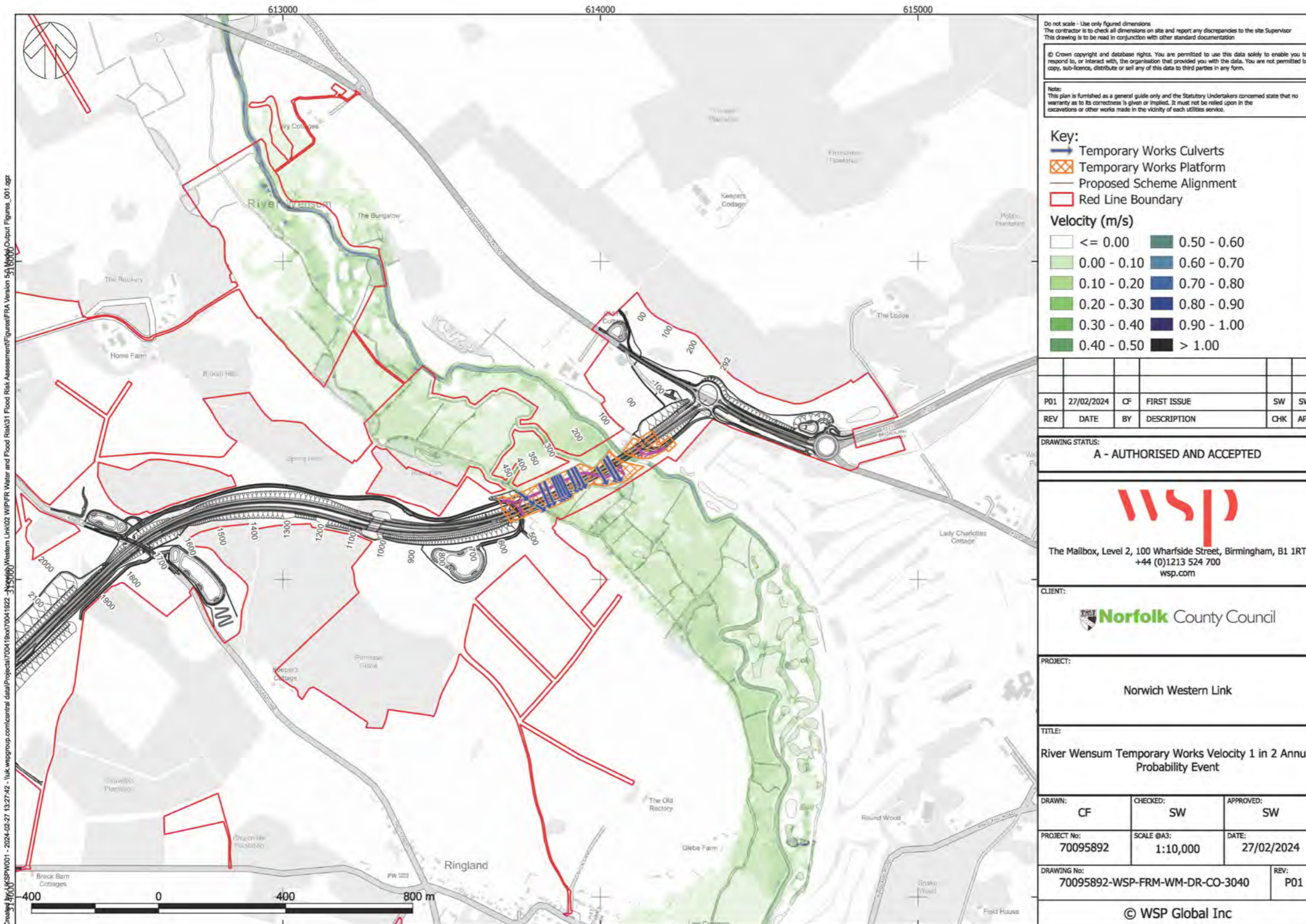


River Wensum temporary works depth 1 in 1000 annual probability event



R

River Wensum temporary works velocity 1 in 2 annual probability event



River Wensum temporary works velocity 1 in 5 annual probability event

