

M5 Junction 10 Improvements Scheme

Environmental Statement

Appendix 8.1 Flood Risk Assessment

Part 2 of 2

TR010063 – APP 6.15

Regulation 5 (2) (e)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Volume 6
December 2023



Gloucestershire
COUNTY COUNCIL

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Infrastructure Planning Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

M5 Junction 10 Improvements Scheme Development Consent Order 202[x]

6.15 Environmental Statement:

Appendix 8.1 Flood Risk Assessment – Part 2 of 2

Regulation Number:	Regulation 5(2)(e)
Planning Inspectorate Scheme Reference	TR010063
Application Document Reference	TR010063/APP/6.15
Author:	M5 Junction 10 Improvements Scheme Project Team

Version	Date	Status of Version
Rev 0	December 2023	DCO Application

Contents

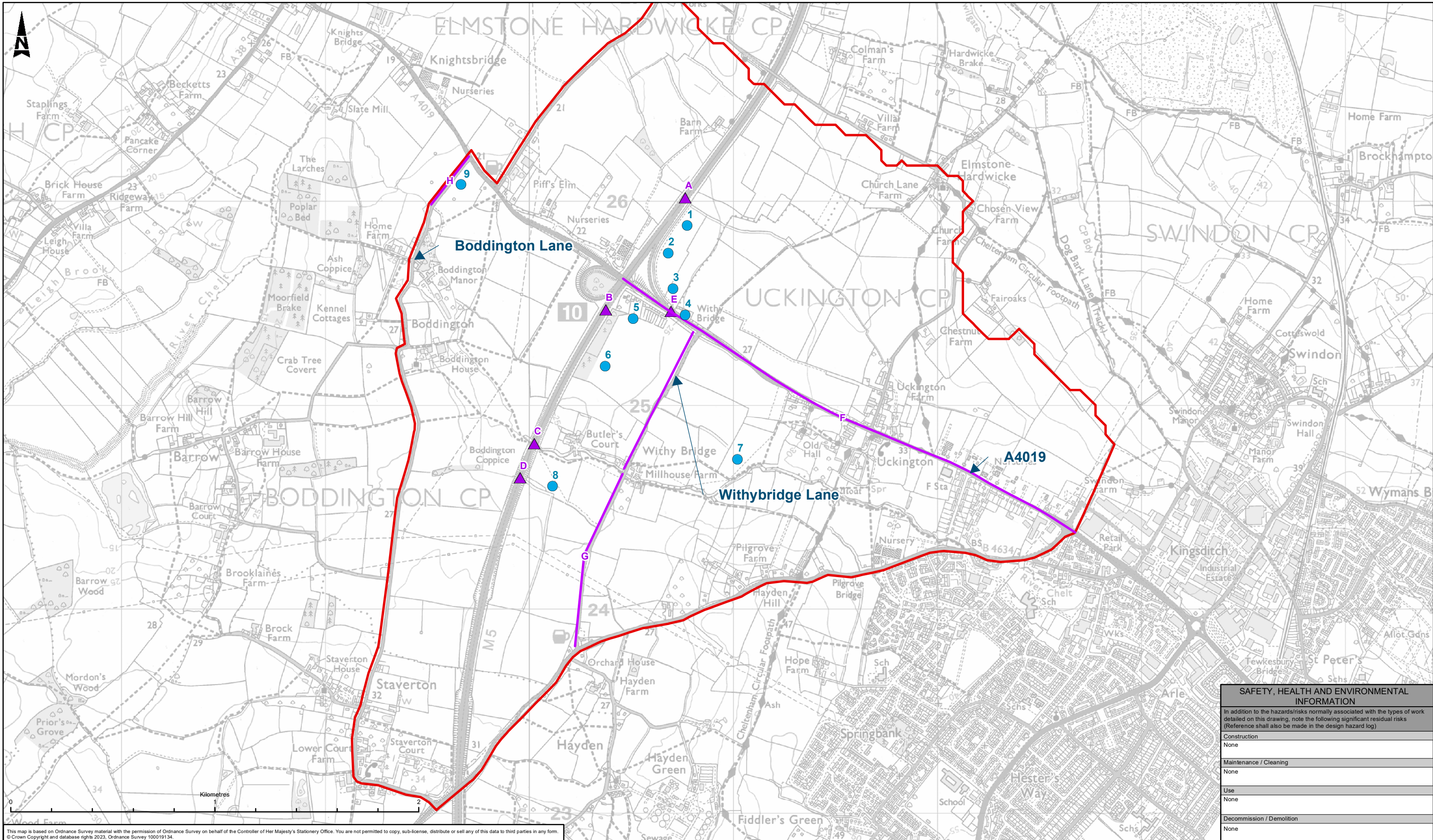
Chapter	Page
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Appendices



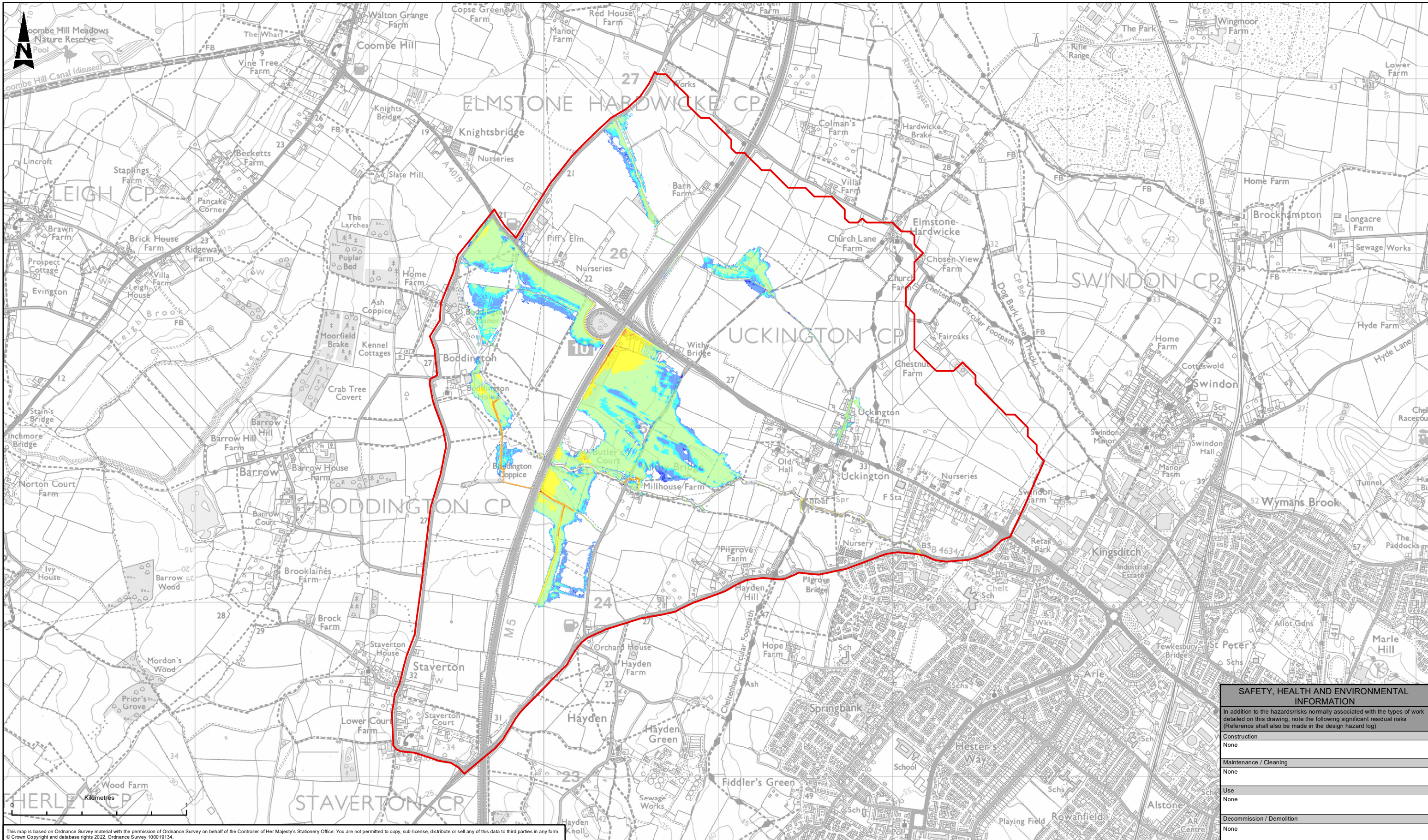
Appendix 8.1 B. FRA Figures

Figure reference	Document title	Sheet	Document number	Revision
4-4	Location of points for result reporting	1 of 1	GCCM5J10-ATK-EWE-ZZ-GS-GI-000031	0
4-5	1% AEP Baseline flood risk depth map - present day	1 of 1	GCCM5J10-ATK-EWE-ZZ-GS-GI-000034	0
4-6	1% AEP Baseline flood risk depth map - future with 53% climate change	1 of 1	GCCM5J10-ATK-EWE-ZZ-GS-GI-000035	0
5-1	Flood Compensation	1 of 1	GCCM5J10-ATK-EWE-ZZ-GS-GI-000032	0
5-4	1% AEP Scheme flood risk depth map - present day	1 of 1	GCCM5J10-ATK-EWE-ZZ-GS-GI-000038	0
5-5	1% AEP level difference map – present day	1 of 1	GCCM5J10-ATK-EWE-ZZ-GS-GI-000036	0
5-6	1% AEP Scheme flood risk depth map – future with 53% climate change	1 of 1	GCCM5J10-ATK-EWE-ZZ-GS-GI-000039	0
5-7	1% AEP level difference map – future with 53% climate change	1 of 1	GCCM5J10-ATK-EWE-ZZ-GS-GI-000037	0
5-8	0.1% AEP Scheme flood risk depth map - present day	1 of 1	GCCM5J10-ATK-EWE-ZZ-GS-GI-000042	0
5-9	0.1% AEP level difference map	1 of 1	GCCM5J10-ATK-EWE-ZZ-GS-GI-000044	0



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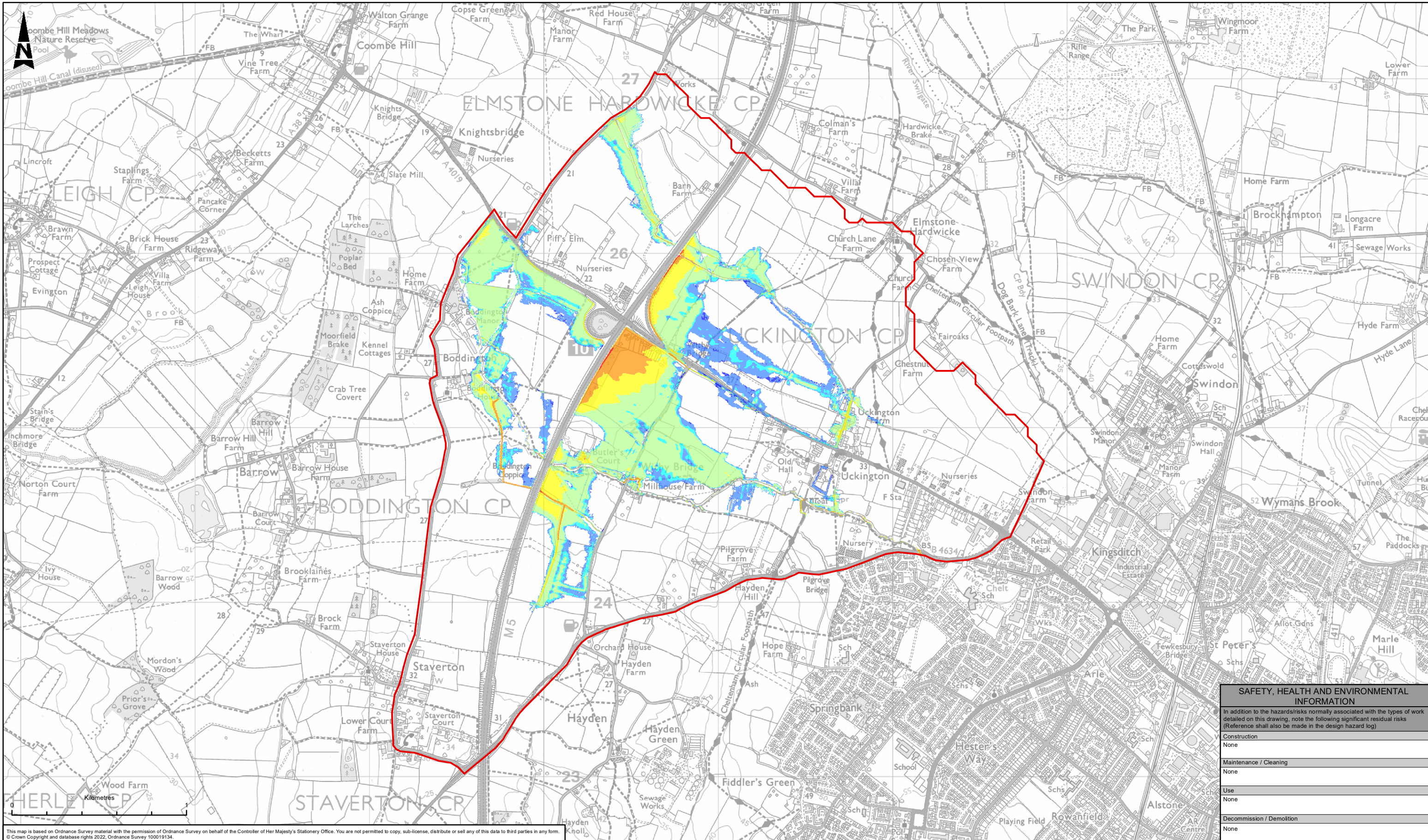
LEGEND MODEL DOMAIN FLOW RESULTS FLOW RESULTS DEPTH RESULTS	Description Status: PUBLISHED Revision: P02 Drawn: JM Checked: NJ Reviewed: CC Authorised: LJ Issue Date: 17/07/23		Drawing Suitability PUBLISHED		Status A1		Project Title M5 Junction 10 Improvements Scheme	
	Description Status: PUBLISHED Revision: P02 Drawn: JM Checked: NJ Reviewed: CC Authorised: LJ Issue Date: 17/07/23		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH Tel: 08000 514 514 www.atkinsglobal.com		Drawing Title FIGURE 4-4 LOCATION OF POINTS FOR RESULT REPORTING		Drawing Number GCCM5J10-ATK-EWE-ZZ-GS-GI_000031	
	Description Status: PUBLISHED Revision: P02 Drawn: JM Checked: NJ Reviewed: CC Authorised: LJ Issue Date: 17/07/23		Client 		Drawing Number Project Originator Volume GCCM5J10-ATK-EWE-ZZ-GS-GI_000031		Original Size: A3 Scale: 1:17,109 Project Ref: 5214106 Sheet: 1 of 1 Rev: P02	
	Description Status: PUBLISHED Revision: P02 Drawn: JM Checked: NJ Reviewed: CC Authorised: LJ Issue Date: 17/07/23		Client 		Drawing Number Project Originator Volume GCCM5J10-ATK-EWE-ZZ-GS-GI_000031		Original Size: A3 Scale: 1:17,109 Project Ref: 5214106 Sheet: 1 of 1 Rev: P02	
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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND MODEL DOMAIN 1 IN 100 YEAR DEPTH RESULTS 0 - 10mm 10 - 50mm 50 - 100mm 100 - 500mm 500 - 1000mm 1000 - 2000mm > 2000mm	Description Status: PUBLISHED Revision: P01 Drawn: SD Checked: NJ Reviewed: CC Authorised: TT Issue Date: 03/07/23	Drawing Suitability PUBLISHED	Status A1	Project Title M5 Junction 10 Improvements Scheme
	Description Status: PUBLISHED Revision: P01 Drawn: SD Checked: NJ Reviewed: CC Authorised: TT Issue Date: 03/07/23	Client 	Description ATKINS Member of the SNC-Lavalin Group 5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH Tel: 08000 514 514 www.atkinsglobal.com	Drawing Title FIGURE 4-5 1% AEP BASELINE FLOOD RISK DEPTH MAP - PRESENT DAY
Original Size: A3 Scale: 1:20,000 Project Ref: 5214106 Sheet: 1 of 1 Rev: P01				



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LEGEND

MODEL DOMAIN

1 IN 100 YEAR + 53% CC DEPTH RESULTS

- 0 - 10mm
- 10 - 50mm
- 50 - 100mm
- 100 - 500mm
- 500 - 1000mm
- 1000 - 2000mm
- > 2000mm

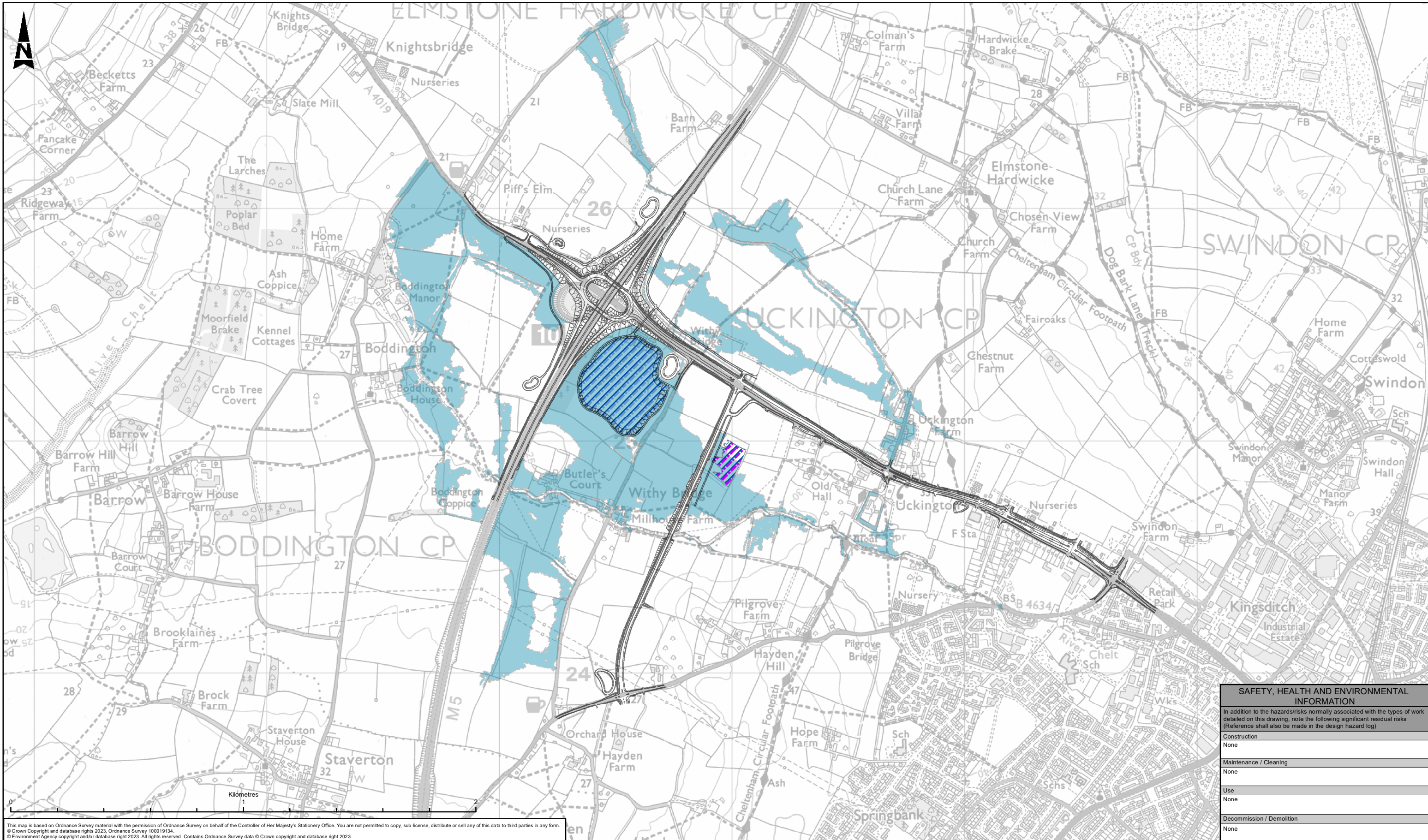
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P01	SD	NJ	CC	TT	03/07/23

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 4-6 1% AEP BASELINE FLOOD RISK DEPTH MAP - FUTURE WITH 53% CLIMATE CHANGE	
Client	Project	Originator	Volume
	GCCM5J10 - ATK - EWE	ZZ - GS - GI - 000035	
Original Size: A3	Scale: 1:20,000	Project Ref: 5214106	Sheet: 1 of 1
			Rev: P01



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LEGEND

- SCHEME ALIGNMENT
- COMPENSATORY FLOODPLAIN
- FLOOD STORAGE AREA
- DESIGN EVENT (1% AEP + 53% CC)

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

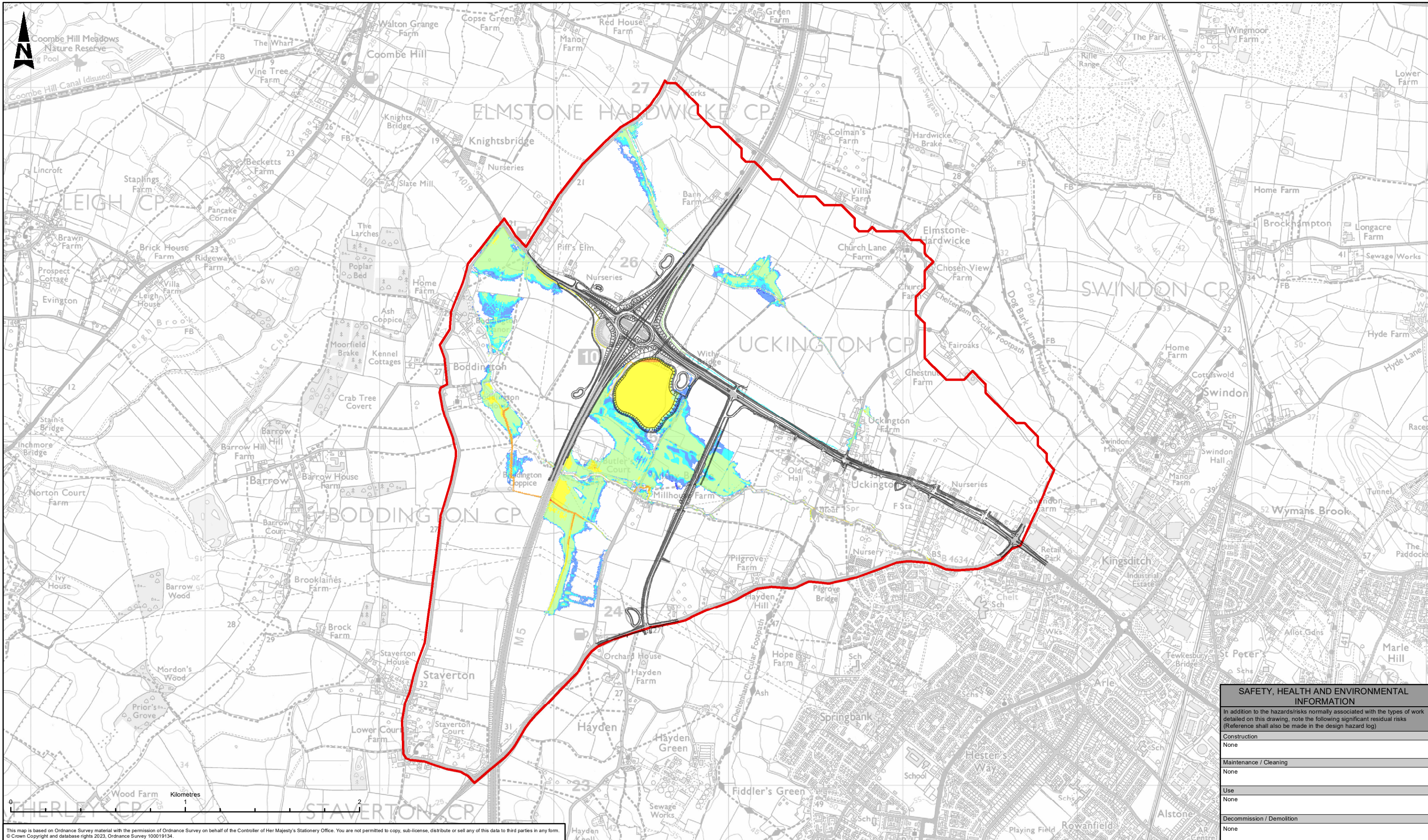
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1		JM	NJ	CC	LJ	03/07/23

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<p>PUBLISHED</p> <p>A1</p>	<p>Project Title</p> <p>M5 Junction 10 Improvements Scheme</p>
<p>Drawing Title</p> <p>FIGURE 5-1 FLOOD COMPENSATION</p>	<p>Drawing Number</p> <p>GCCM5J10-ATK-EWE-ZZ-GS-GI-000032</p>
<p>Original Size: A3</p> <p>Scale: 1:15,000</p> <p>Project Ref: 5214106</p> <p>Sheet: 1 of 1</p> <p>Rev: P02</p>	<p>Location</p> <p>Type</p> <p>Role</p> <p>Number</p>



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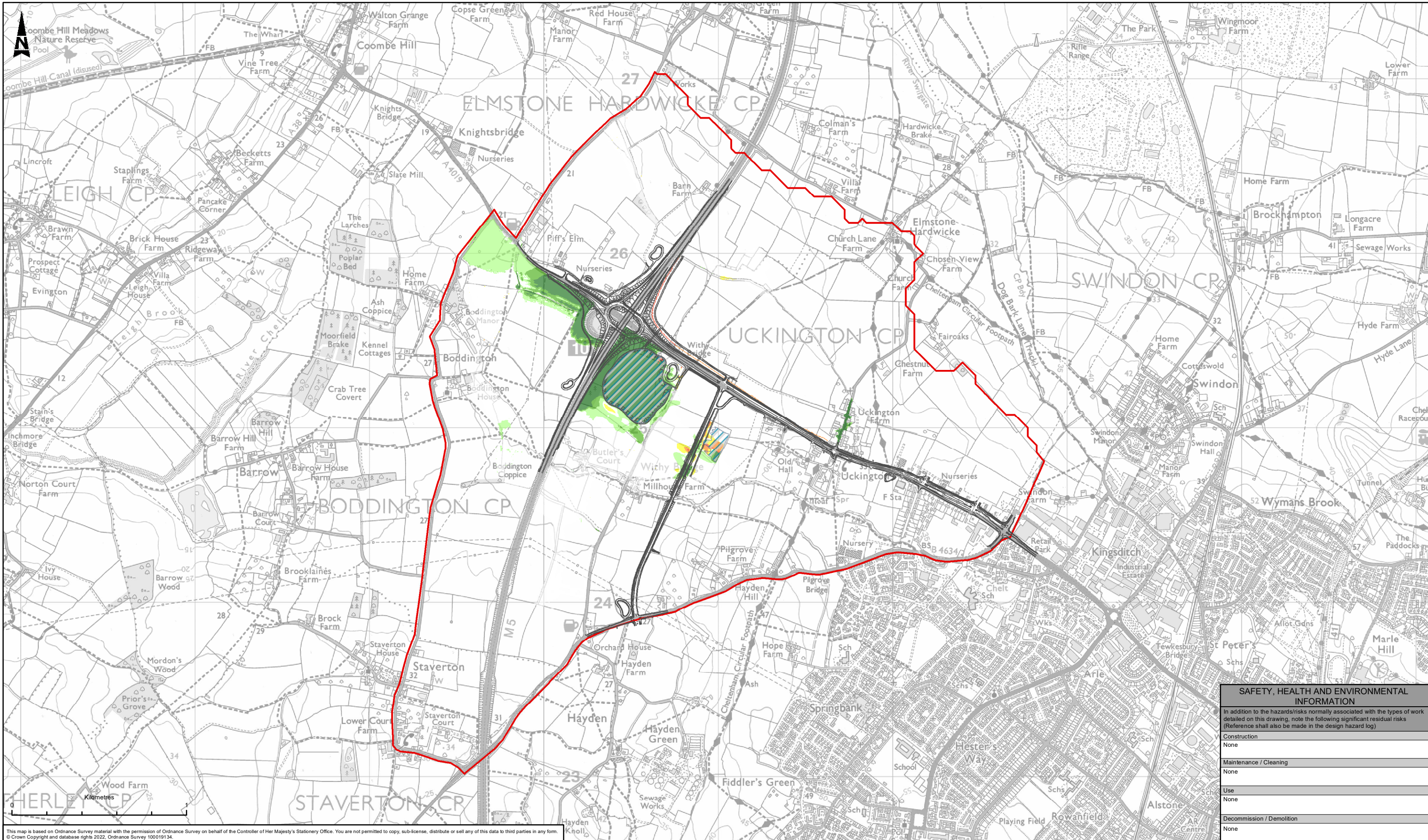
— SCHEME ALIGNMENT
 □ MODEL DOMAIN

1 IN 100 YEAR DEPTH RESULTS

- 0 - 10mm
- 10 - 50mm
- 50 - 100mm
- 100 - 500mm
- 500 - 1000mm
- 1000 - 2000mm
- > 2000mm

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Description		Drawing Suitability	Status	Project Title														
<table border="1"> <tr><th>Status</th><th>Revision</th><th>Drawn</th><th>Checked</th><th>Reviewed</th><th>Authorised</th><th>Issue Date</th></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>		Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date								PUBLISHED	A1	M5 Junction 10 Improvements Scheme
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date												
Description				Drawing Title														
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date												
Description				Drawing Number														
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date												



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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND

	SCHEME ALIGNMENT
	MODEL DOMAIN
	FLOOD STORAGE AREA

FLOOD LEVEL DIFFERENCE

	<-100 mm
	-50 to -100 mm
	-10 to -50 mm
	-10 to 10mm
	10 to 50 mm
	50 to 100mm
	>100 mm

DIFFERENCE = WITH-SCHEME FLOOD LEVELS MINUS BASELINE FLOOD LEVELS. POSITIVE RESULTS INDICATE A DETRIMENT TO FLOOD LEVELS, WHILST NEGATIVE RESULTS INDICATE A BETTERMENT TO FLOOD LEVELS.

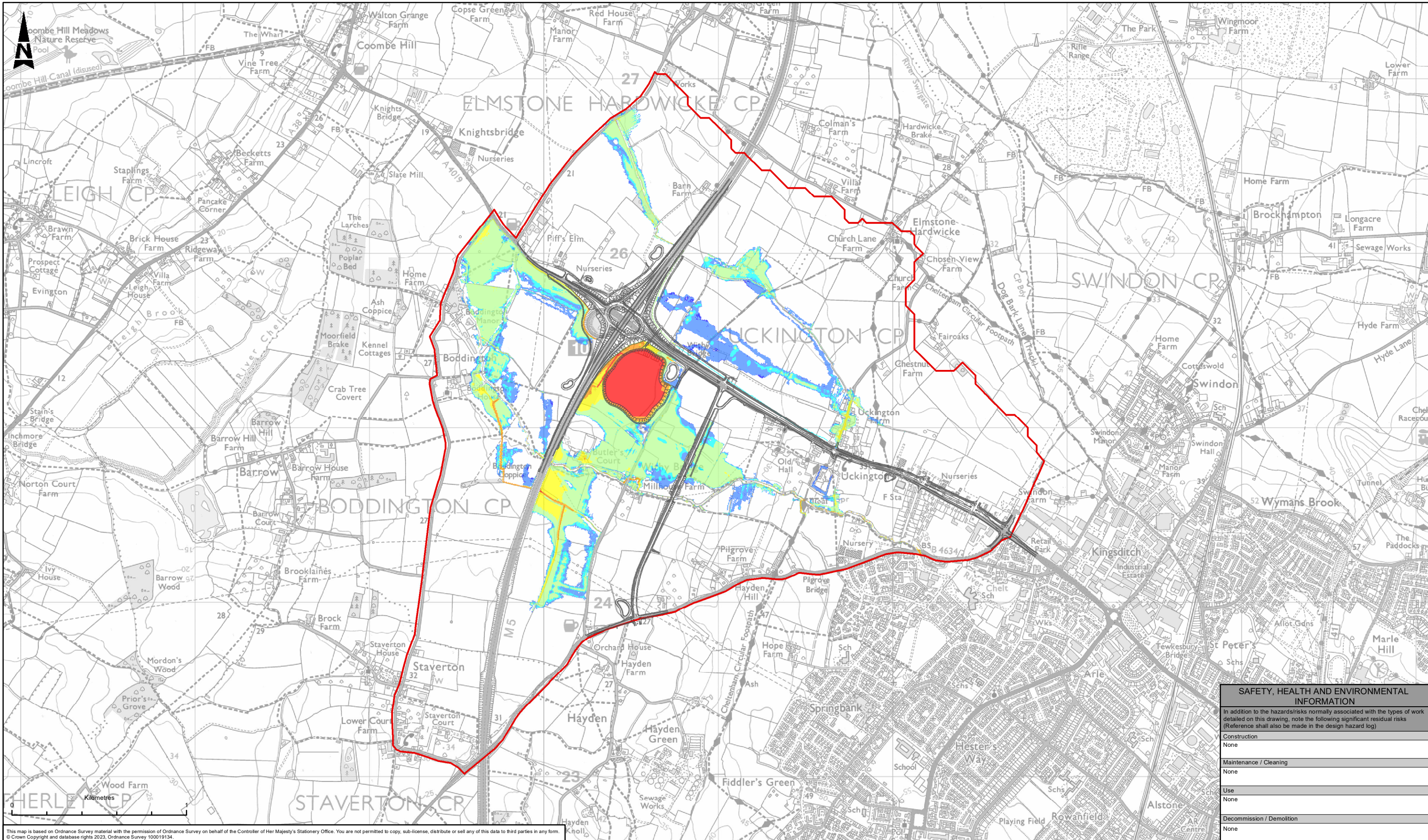
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Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 5-5 1% AEP LEVEL DIFFERENCE MAP - PRESENT DAY
Drawing Number	Project: GCCM5J10 - ATK - EWE Originator: ZZ - GS - GI - 000036 Volume: 1 of 1
Original Size	A3
Scale	1:20,000
Project Ref	5214106
Sheet	1 of 1
Rev	P03



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LEGEND

- MODEL DOMAIN
- SCHEME ALIGNMENT

- 1 IN 100 YEAR + 53% CC DEPTH RESULTS**
- 0 - 10mm
 - 10 - 50mm
 - 50 - 100mm
 - 100 - 500mm
 - 500 - 1000mm
 - 1000 - 2000mm
 - > 2000mm

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

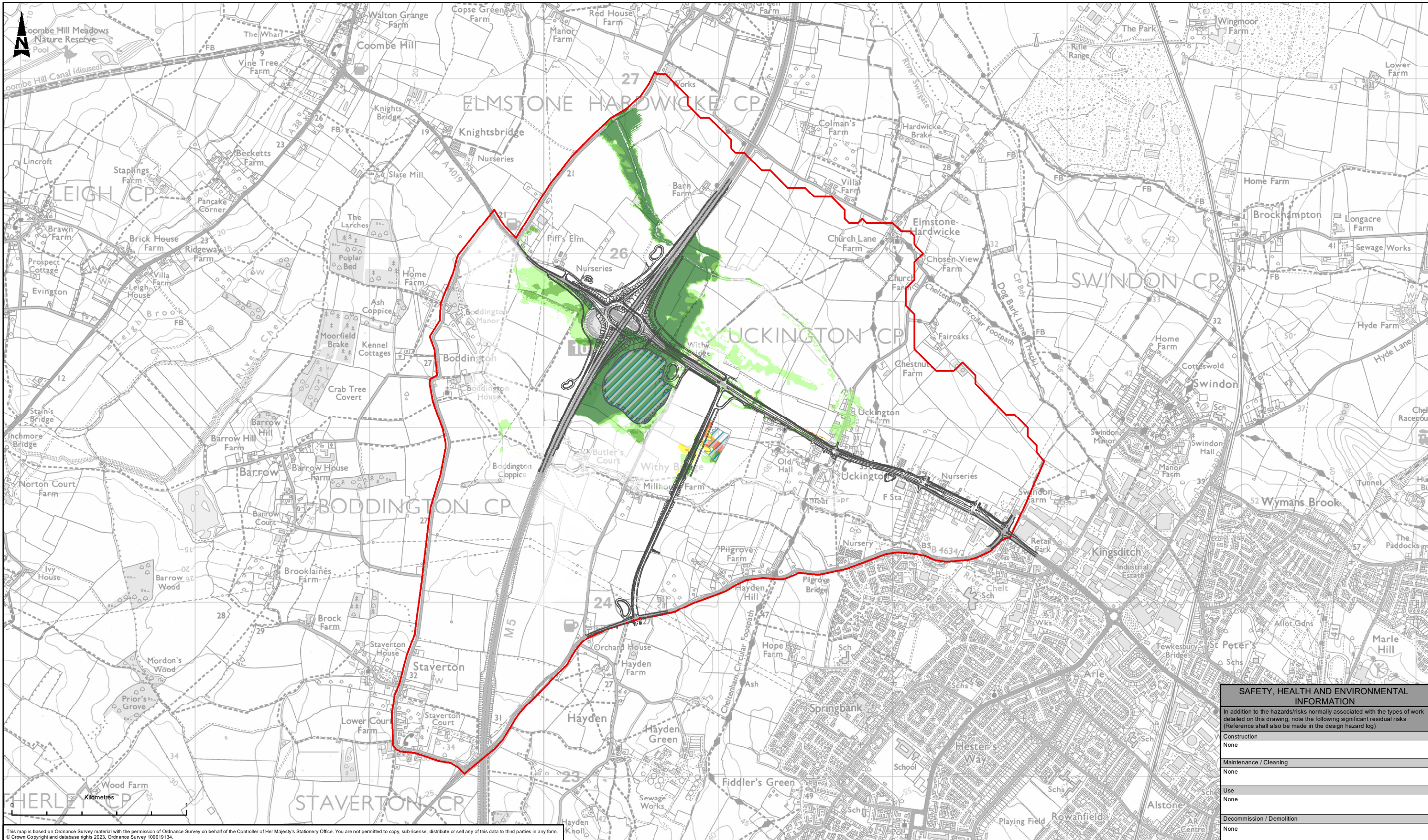
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PUBLISHED	A1	P03	JM	NJ	CC	TT	03/07/23

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 5-6 1% AEP SCHEME FLOOD RISK DEPTH MAP - FUTURE WITH 53% CLIMATE CHANGE
Drawing Number	Project: GCCM5J10 - ATK - EWE Originator: ZZ - GS - GI - 000039 Volume: 1 of 1
Original Size: A3	Scale: 1:20,000 Project Ref: 5214106 Sheet: 1 of 1 Rev: P03



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LEGEND

- SCHEME ALIGNMENT
- ▭ MODEL DOMAIN
- ▨ FLOOD STORAGE AREA

FLOOD LEVEL DIFFERENCE

- <-100 mm
- 50 to -100 mm
- 10 to -50 mm
- 10 to 10mm
- 10 to 50 mm
- 50 to 100mm
- >100 mm

DIFFERENCE = WITH-SCHEME FLOOD LEVELS MINUS BASELINE FLOOD LEVELS.
 POSITIVE RESULTS INDICATE A DETRIMENT TO FLOOD LEVELS,
 WHILST NEGATIVE RESULTS INDICATE A BETTERMENT TO FLOOD LEVELS.

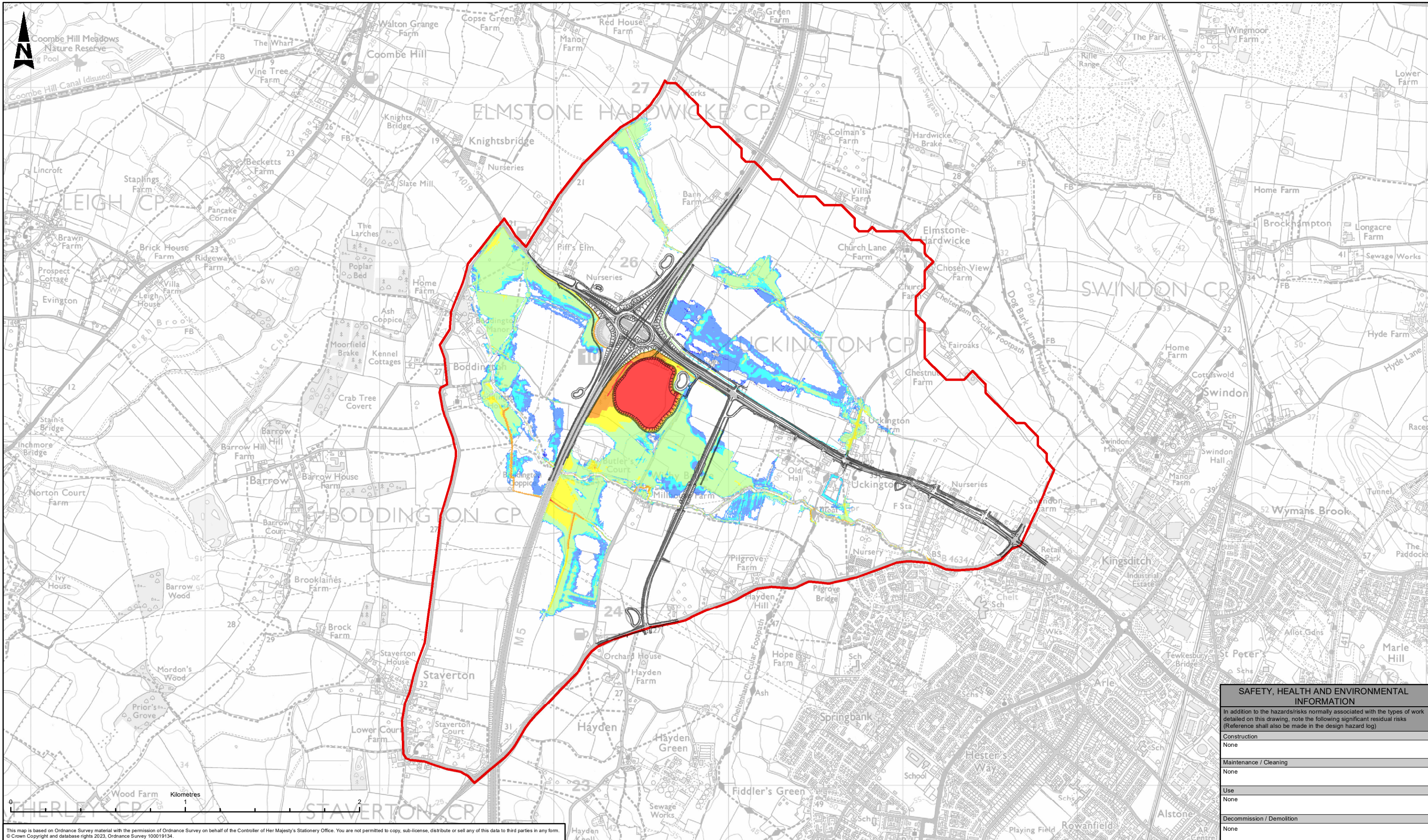
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PUBLISHED	A1	P03	SD	NJ	CC	TT	17/07/23

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None
Project Title M5 Junction 10 Improvements Scheme	
Drawing Title FIGURE 5-7 1% AEP LEVEL DIFFERENCE MAP - FUTURE WITH 53% CLIMATE CHANGE	
Drawing Number Project: GCCM5J10 - ATK - EWE Originator: ZZ - GS - GI - 000037 Volume:	
Original Size: A3 Scale: 1:20,000 Project Ref: 5214106 Sheet: 1 of 1 Rev: P03	Location: Type: Role: Number:



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LEGEND

— SCHEME ALIGNMENT
 □ MODEL DOMAIN

1 IN 1000 YEAR DEPTH RESULTS

- 0 - 10mm
- 10 - 50mm
- 50 - 100mm
- 100 - 500mm
- 500 - 1000mm
- 1000 - 2000mm
- > 2000mm

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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Use	None
Decommission / Demolition	None

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Status: **A1**

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Project Title: **M5 Junction 10 Improvements Scheme**

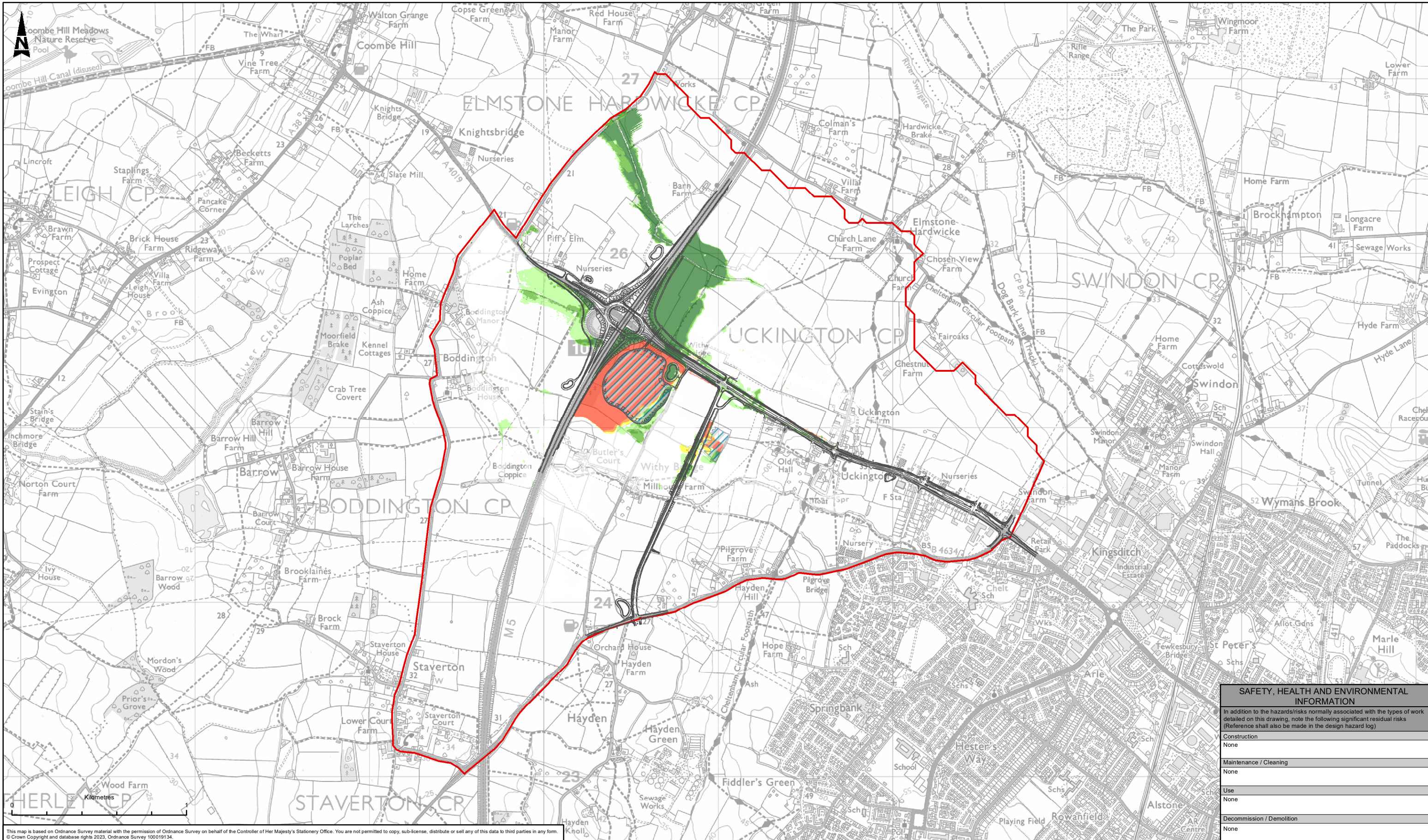
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 0.1% AEP SCHEME FLOOD RISK DEPTH MAP – PRESENT DAY**

Drawing Number: **GCCM5J10 - ATK - EWE-ZZ - GS - GI - 000042**

Project	Originator	Volume

Location	Type	Role	Number

Original Size	Scale	Project Ref	Sheet	Number	Rev
A3	1:20,000	5214106	1 of 1		P03



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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	SCHEME ALIGNMENT
	MODEL DOMAIN
	FLOOD STORAGE AREA
	FLOOD LEVEL DIFFERENCE <math><-100\text{ mm}</math>
	FLOOD LEVEL DIFFERENCE -50 to -100 mm
	FLOOD LEVEL DIFFERENCE -10 to -50 mm
	FLOOD LEVEL DIFFERENCE -10 to 10mm
	FLOOD LEVEL DIFFERENCE 10 to 50 mm
	FLOOD LEVEL DIFFERENCE 50 to 100mm
	FLOOD LEVEL DIFFERENCE >100 mm

FLOOD LEVEL DIFFERENCE	
	<math><-100\text{ mm}</math>
	-50 to -100 mm
	-10 to -50 mm
	-10 to 10mm
	10 to 50 mm
	50 to 100mm
	>100 mm

DIFFERENCE = WITH-SCHEME FLOOD LEVELS MINUS BASELINE FLOOD LEVELS. POSITIVE RESULTS INDICATE A DETRIMENT TO FLOOD LEVELS, WHILST NEGATIVE RESULTS INDICATE A BETTERMENT TO FLOOD LEVELS.

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
DESCRIPTION	PUBLISHED	P01	SD	NJ	CC	TT	18/07/23

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Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 5-9 0.1% AEP LEVEL DIFFERENCE MAP
Drawing Number	Project: GCCM5J10 - ATK - EWE Originator: ZZ - GS - GI - 000044 Volume: 1 of 1
Original Size: A3	Scale: 1:20,000 Project Ref: 5214106 Sheet: 1 of 1 Rev: P01

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