

Lower Thames Crossing

6.3 Environmental Statement Appendices

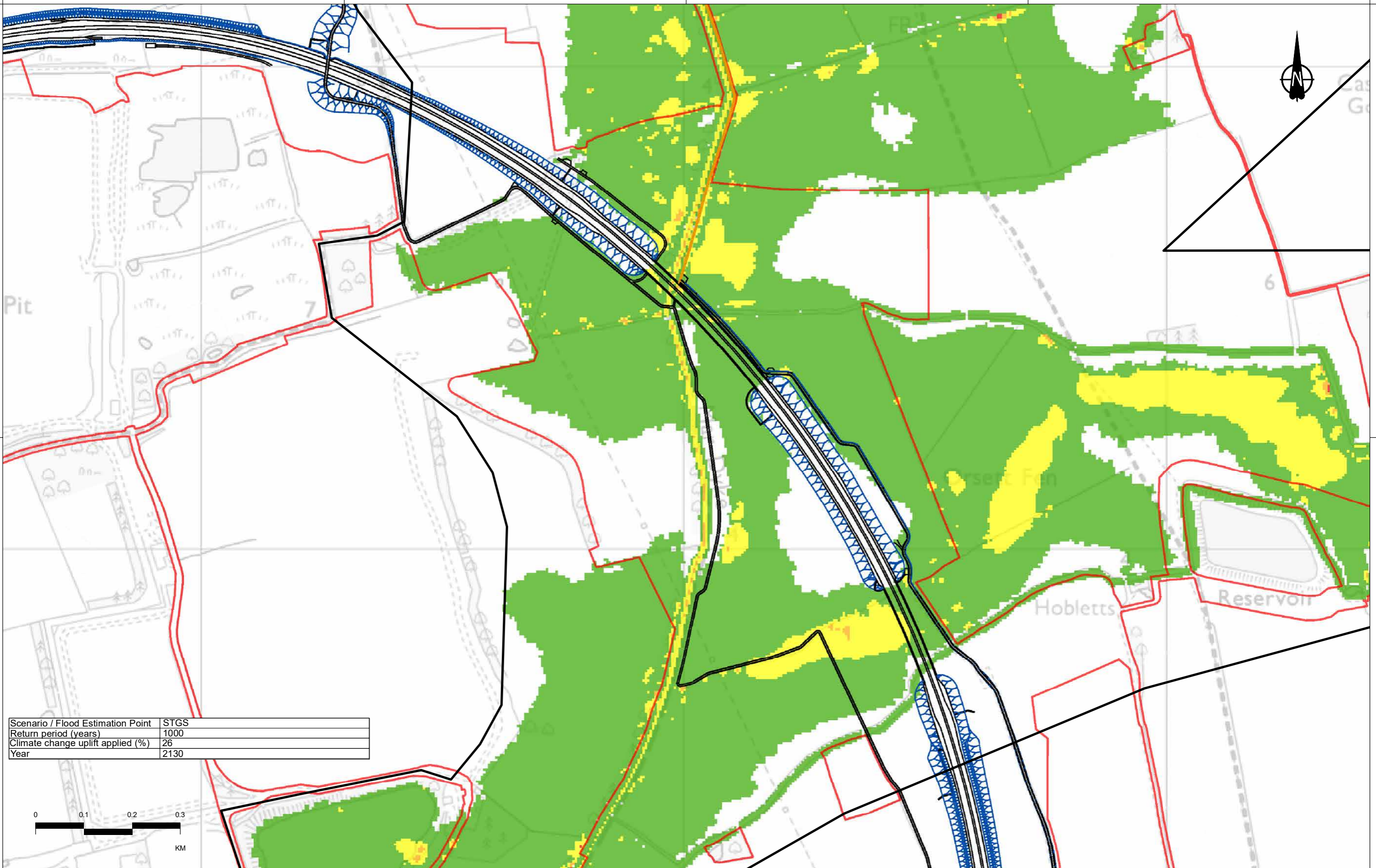
Appendix 14.6 - Flood Risk Assessment - Part 9 Annex F

APFP Regulation 5(2)(a)
Infrastructure Planning
(Applications: Prescribed Forms and Procedure)
Regulations 2009
Volume 6

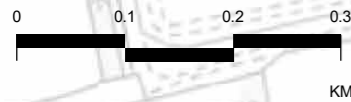
DATE: October 2022

Planning Inspectorate Scheme Ref: TR010032
Application Document Ref: TR010032/APP/6.3

VERSION: 1.0



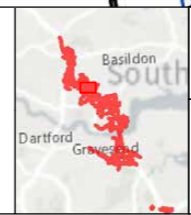
Scenario / Flood Estimation Point	STGS
Return period (years)	1000
Climate change uplift applied (%)	26
Year	2130



COINTEL	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

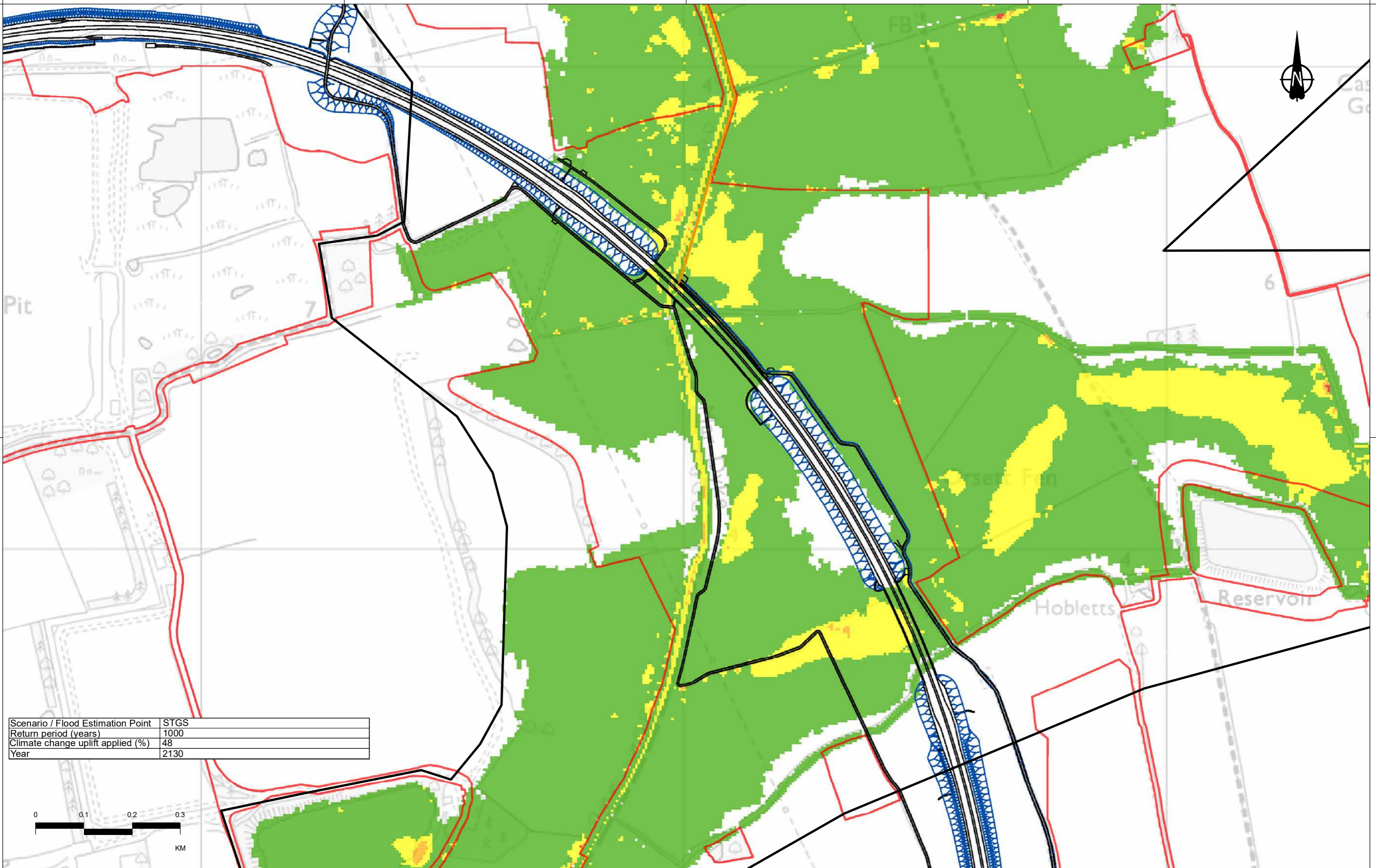
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0.25 - 0.5
	NMU Routes	0.5 - 1.0
		1.0 - 2
		> 2.0



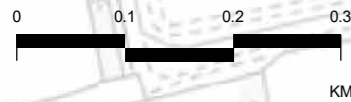
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (without mitigation) Sheet 37 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00602				



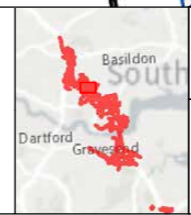
Scenario / Flood Estimation Point	STGS
Return period (years)	1000
Climate change uplift applied (%)	48
Year	2130



P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

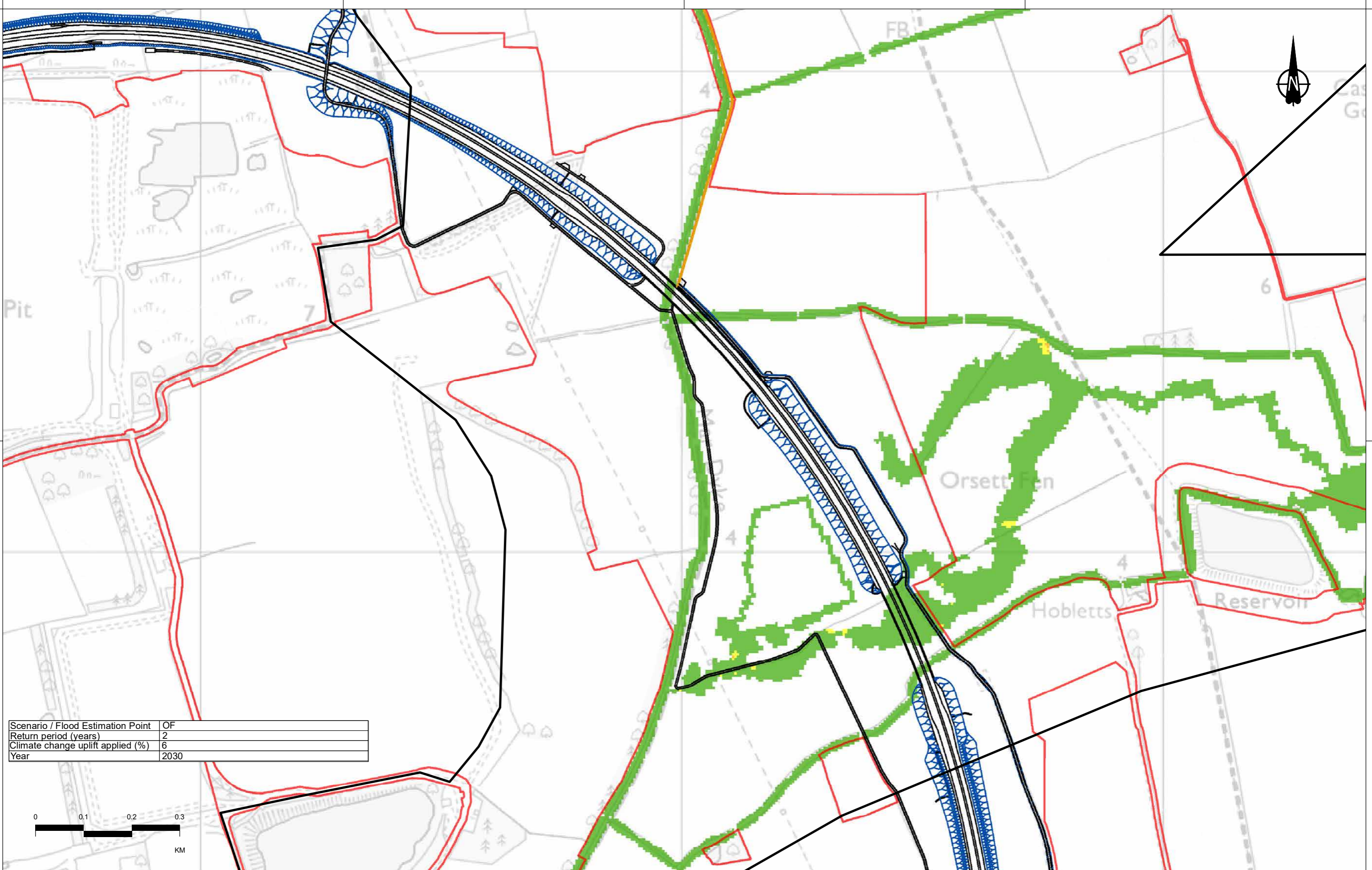
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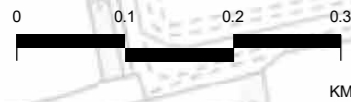
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
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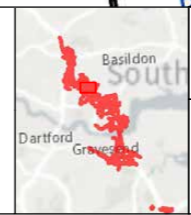


Scenario / Flood Estimation Point	OF
Return period (years)	2
Climate change uplift applied (%)	6
Year	2030



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

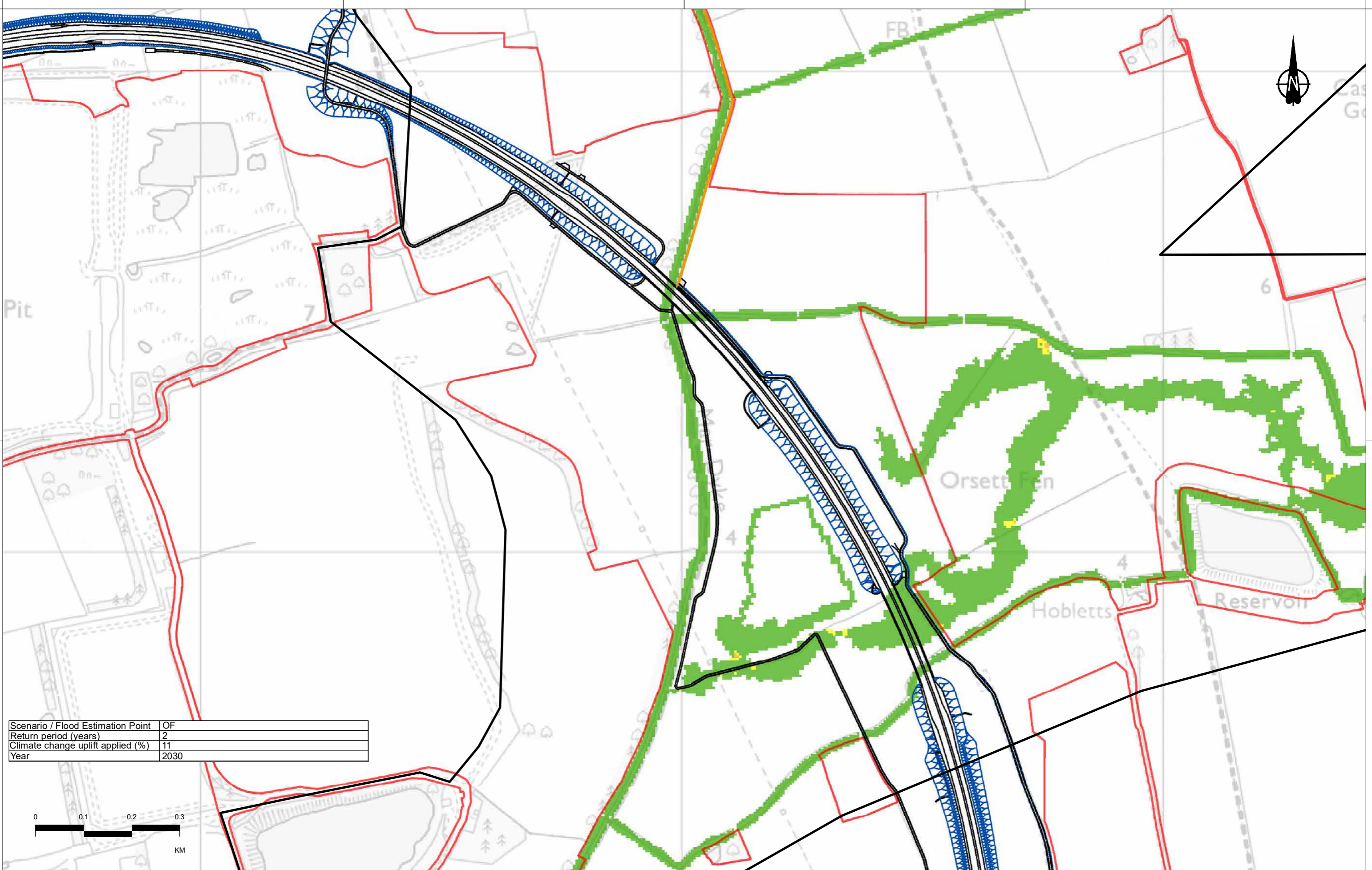
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		1.0 - 2
		> 2.0



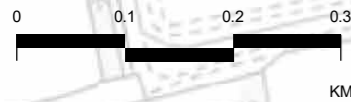
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
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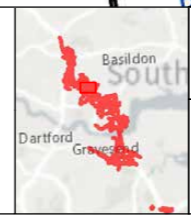


Scenario / Flood Estimation Point	OF
Return period (years)	2
Climate change uplift applied (%)	11
Year	2030



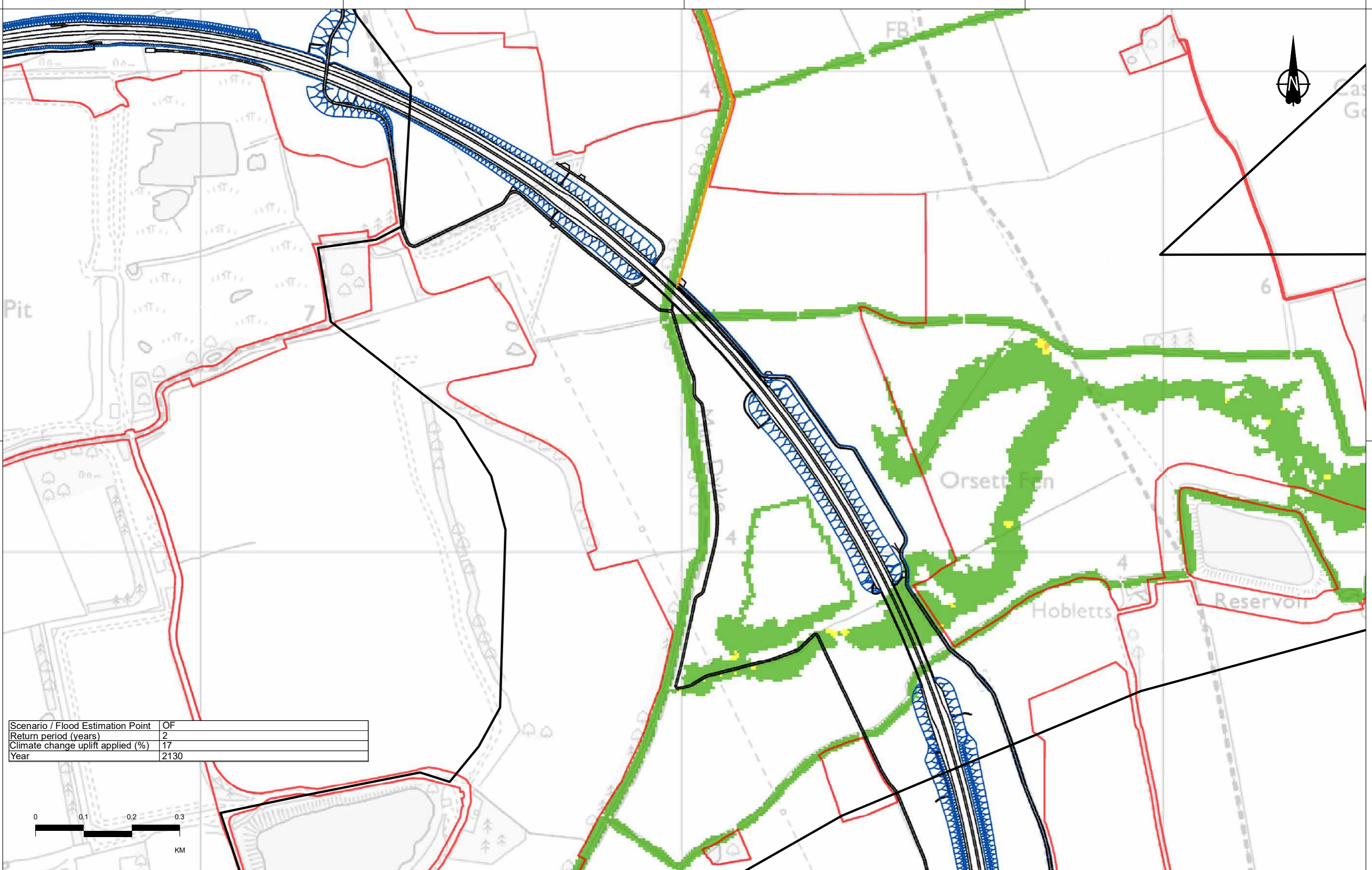
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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

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	Order Limits	
	Alignment	
	Earthworks	
	NMU Routes	

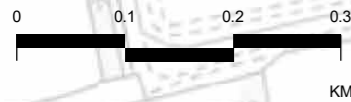


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Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
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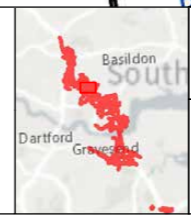


Scenario / Flood Estimation Point	OF
Return period (years)	2
Climate change uplift applied (%)	17
Year	2130



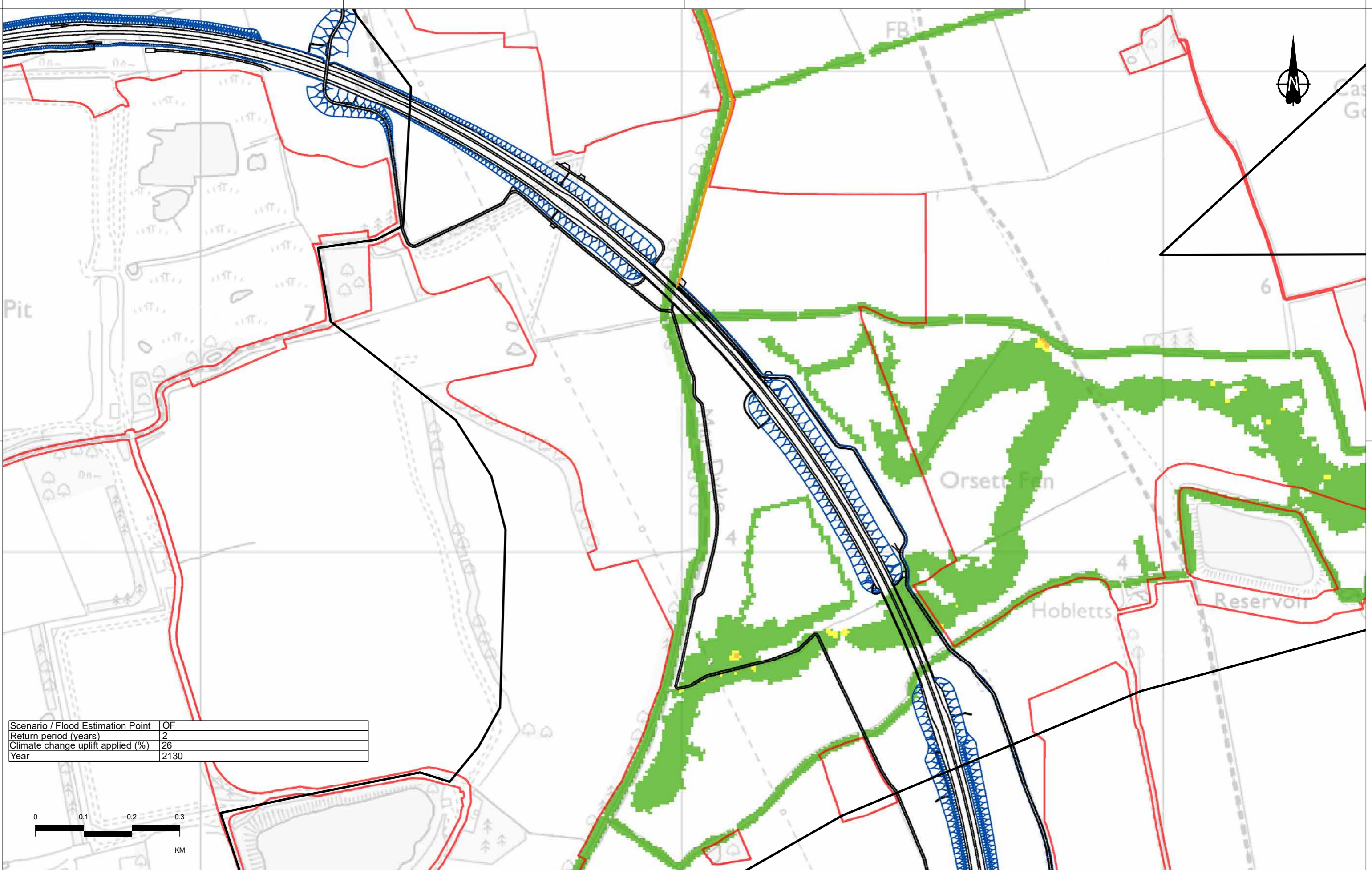
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Appr'd

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	Order Limits		0.25 - 0.5
	Alignment		0.5 - 1.0
	Earthworks		1.0 - 2
	NMU Routes		> 2.0

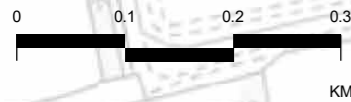


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Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
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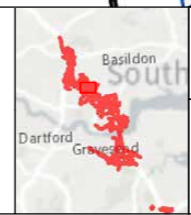
Scenario / Flood Estimation Point	OF
Return period (years)	2
Climate change uplift applied (%)	26
Year	2130



COSSM	OS	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

Legend

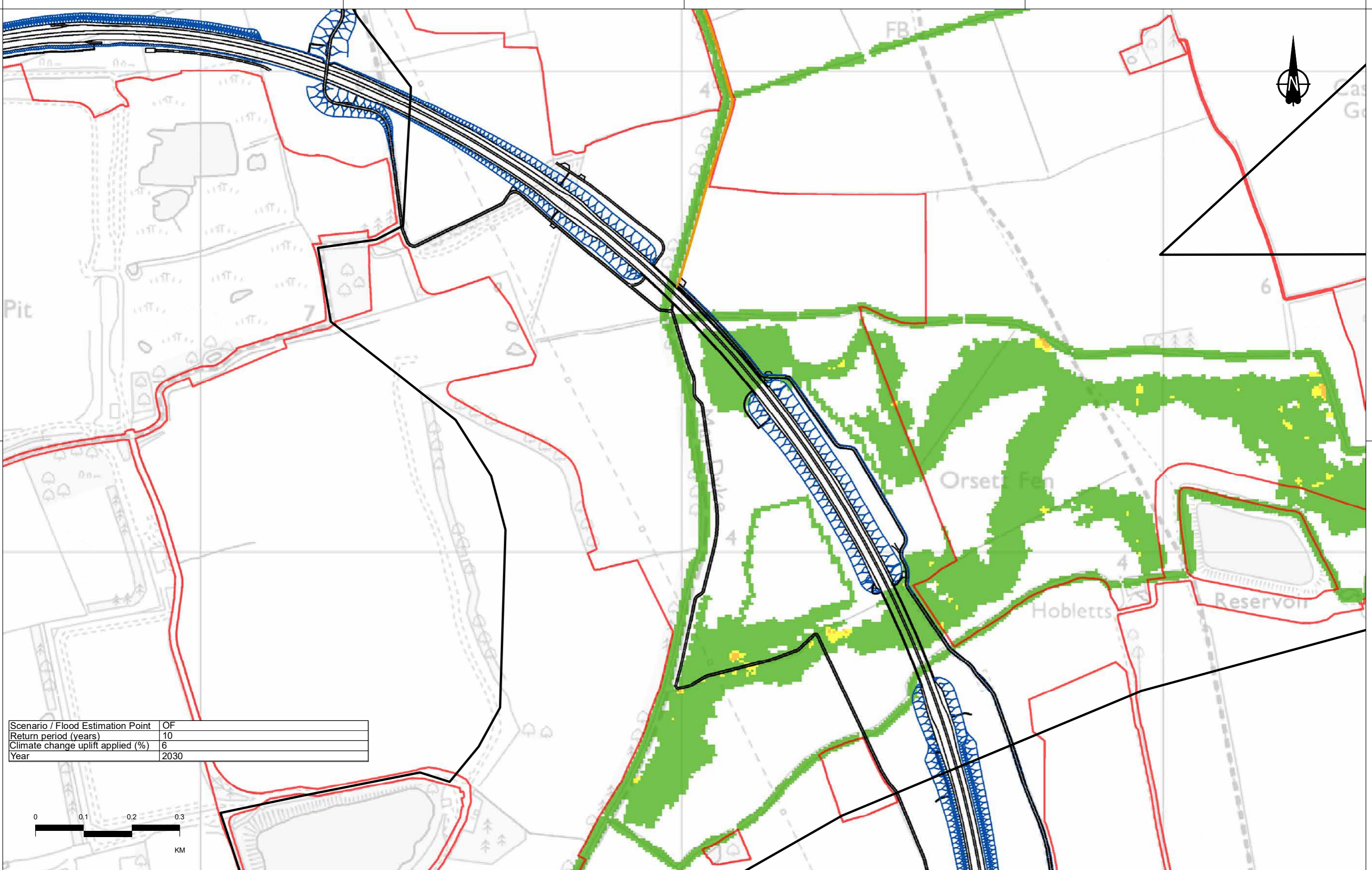
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	NMU Routes	0.25 - 0.5
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		1.0 - 2
		> 2.0



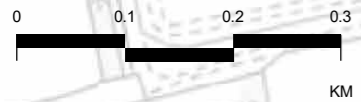
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Project
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Status	DCO Application	Original Size	A3	Revision	P01
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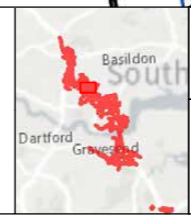
Scenario / Flood Estimation Point	OF
Return period (years)	10
Climate change uplift applied (%)	6
Year	2030



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

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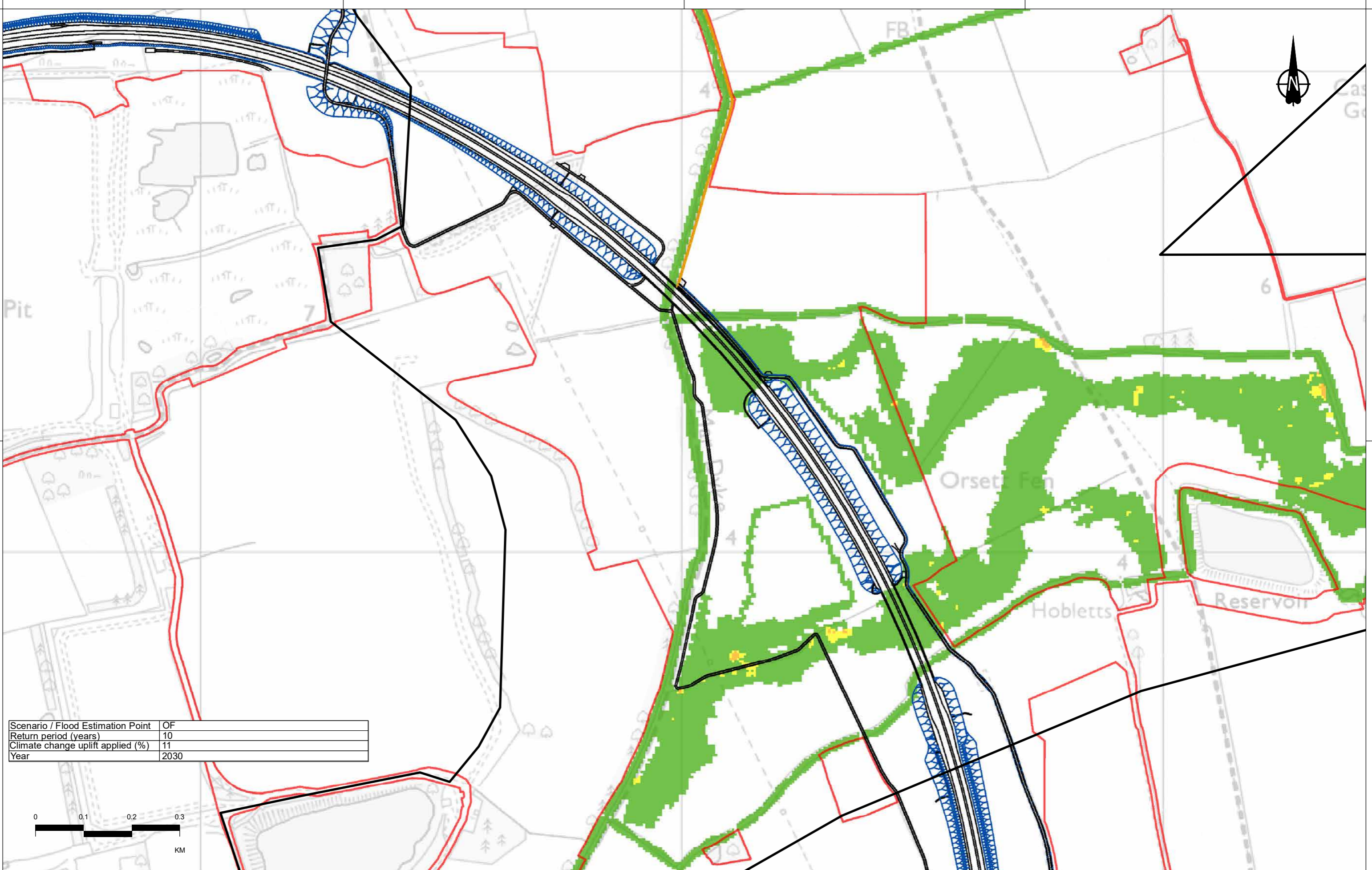
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	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



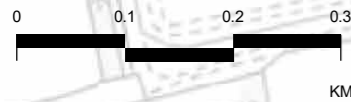
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Status	DCO Application	Original Size	A3	Revision	P01
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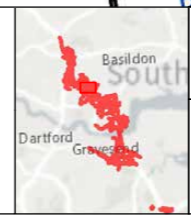


Scenario / Flood Estimation Point	OF
Return period (years)	10
Climate change uplift applied (%)	11
Year	2030



Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd
P01	SB	10/10/2022	DCO Application	KK	RB	BF

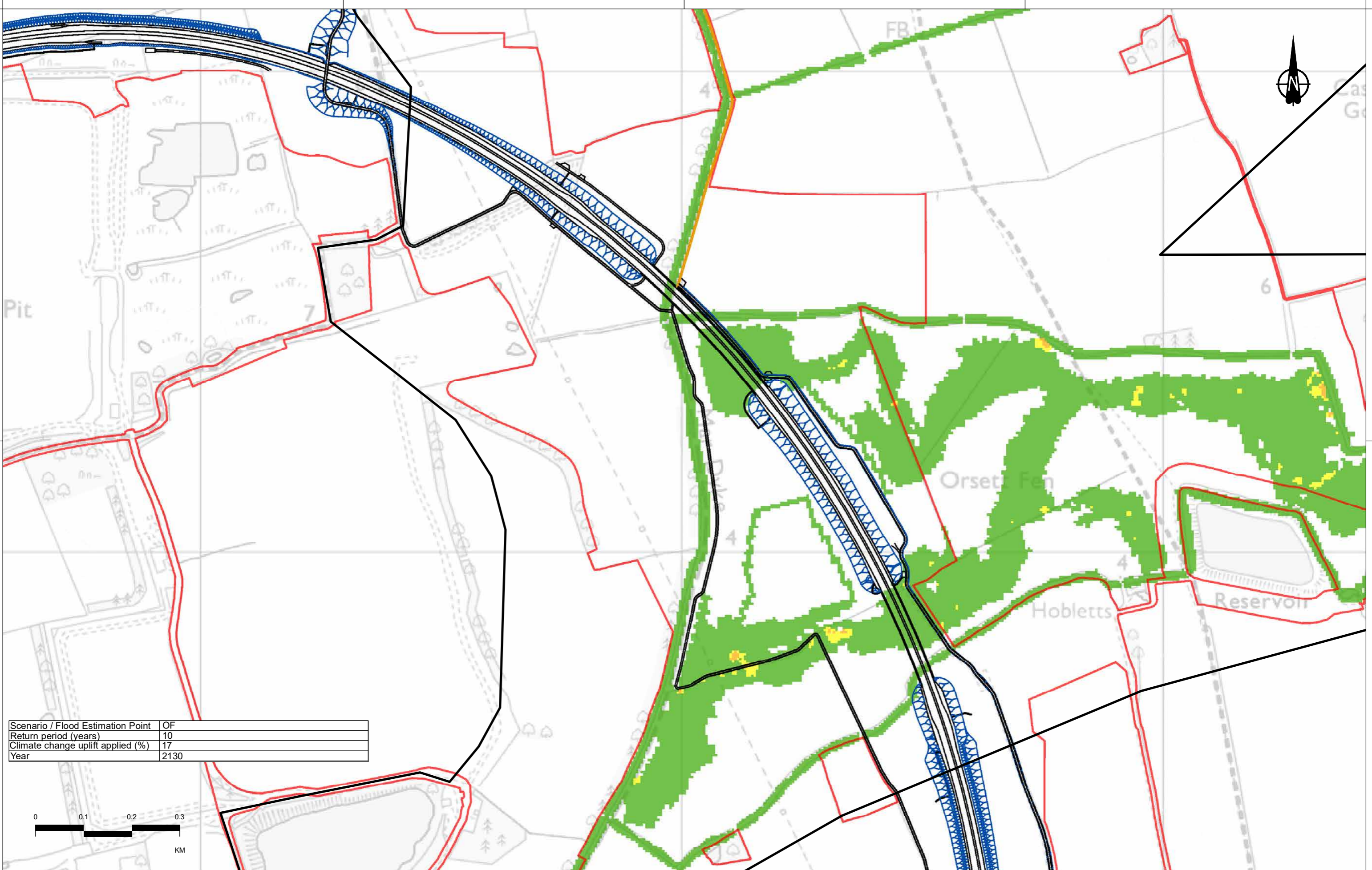
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	Order Limits	
	Alignment	
	Earthworks	
	NMU Routes	



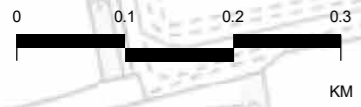
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Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
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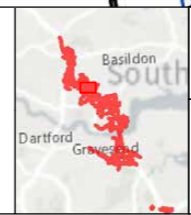
Scenario / Flood Estimation Point	OF
Return period (years)	10
Climate change uplift applied (%)	17
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

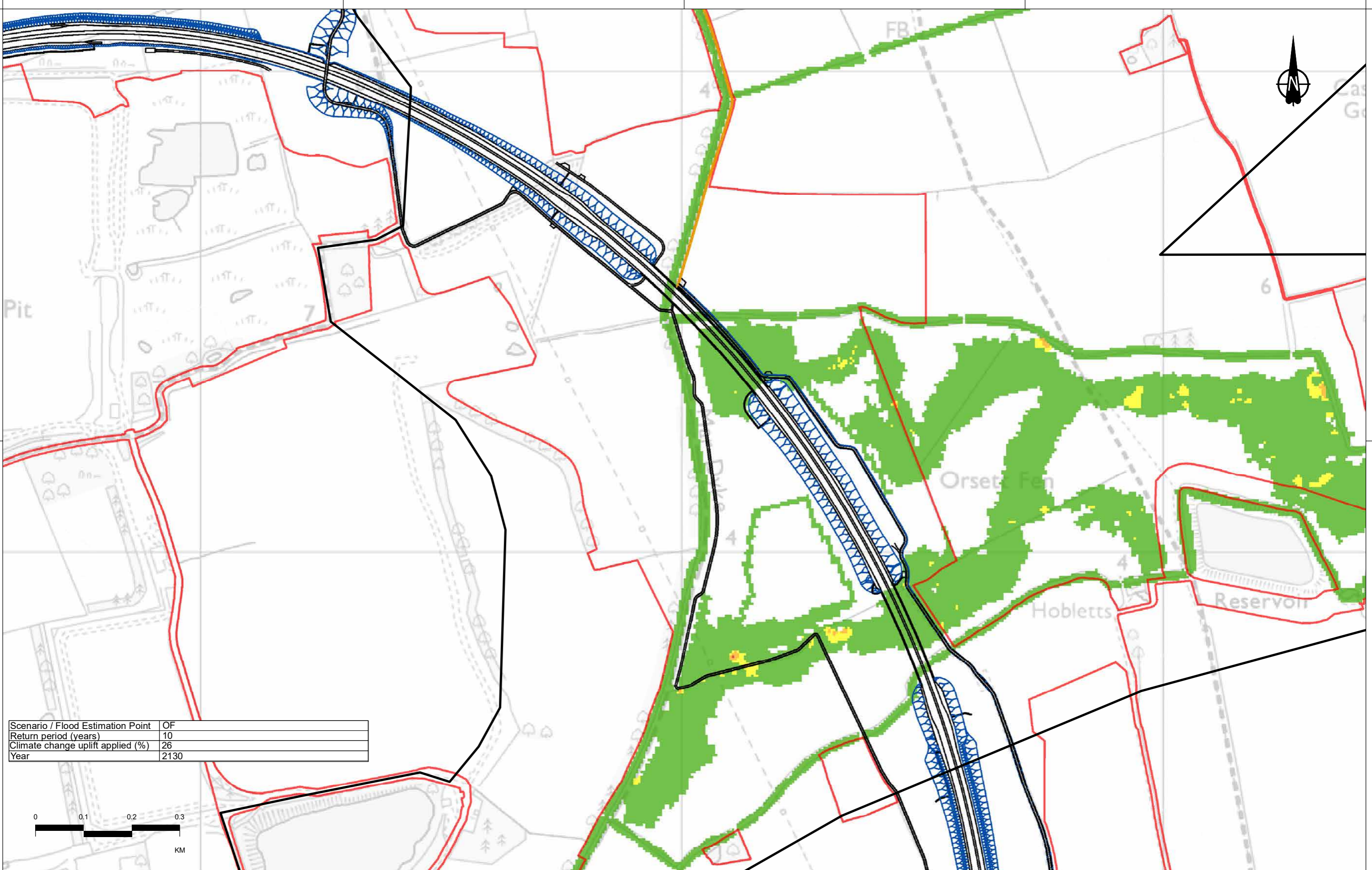
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		1.0 - 2
		> 2.0



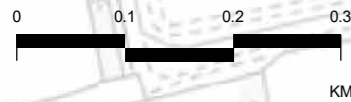
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Project
LOWER THAMES CROSSING

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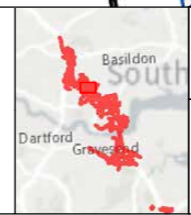
Scenario / Flood Estimation Point	OF
Return period (years)	10
Climate change uplift applied (%)	26
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

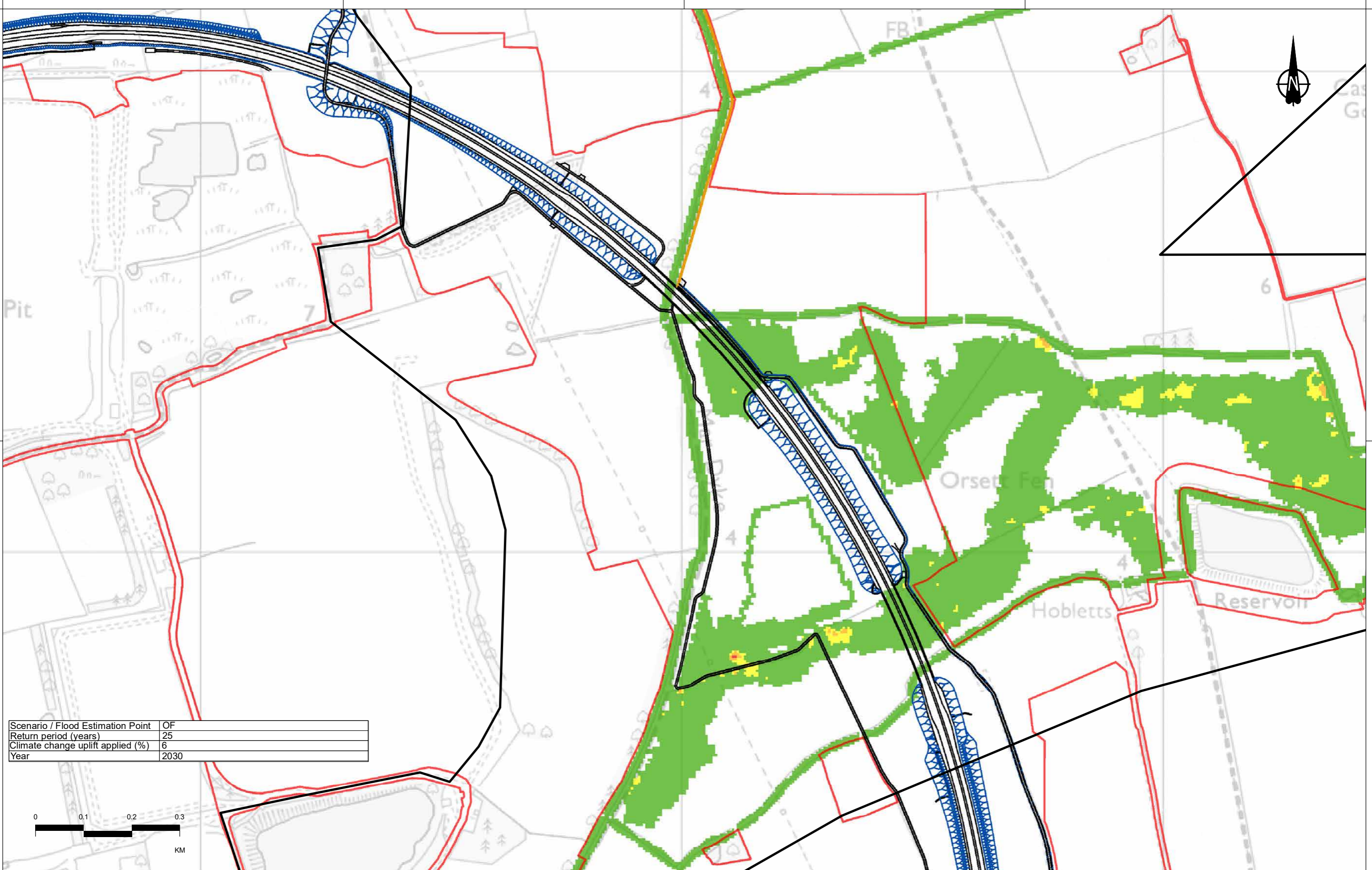
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	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



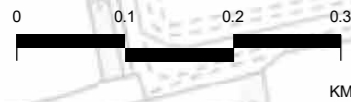
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Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
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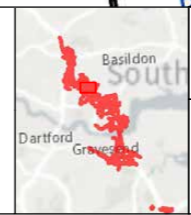


Scenario / Flood Estimation Point	OF
Return period (years)	25
Climate change uplift applied (%)	6
Year	2030



P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

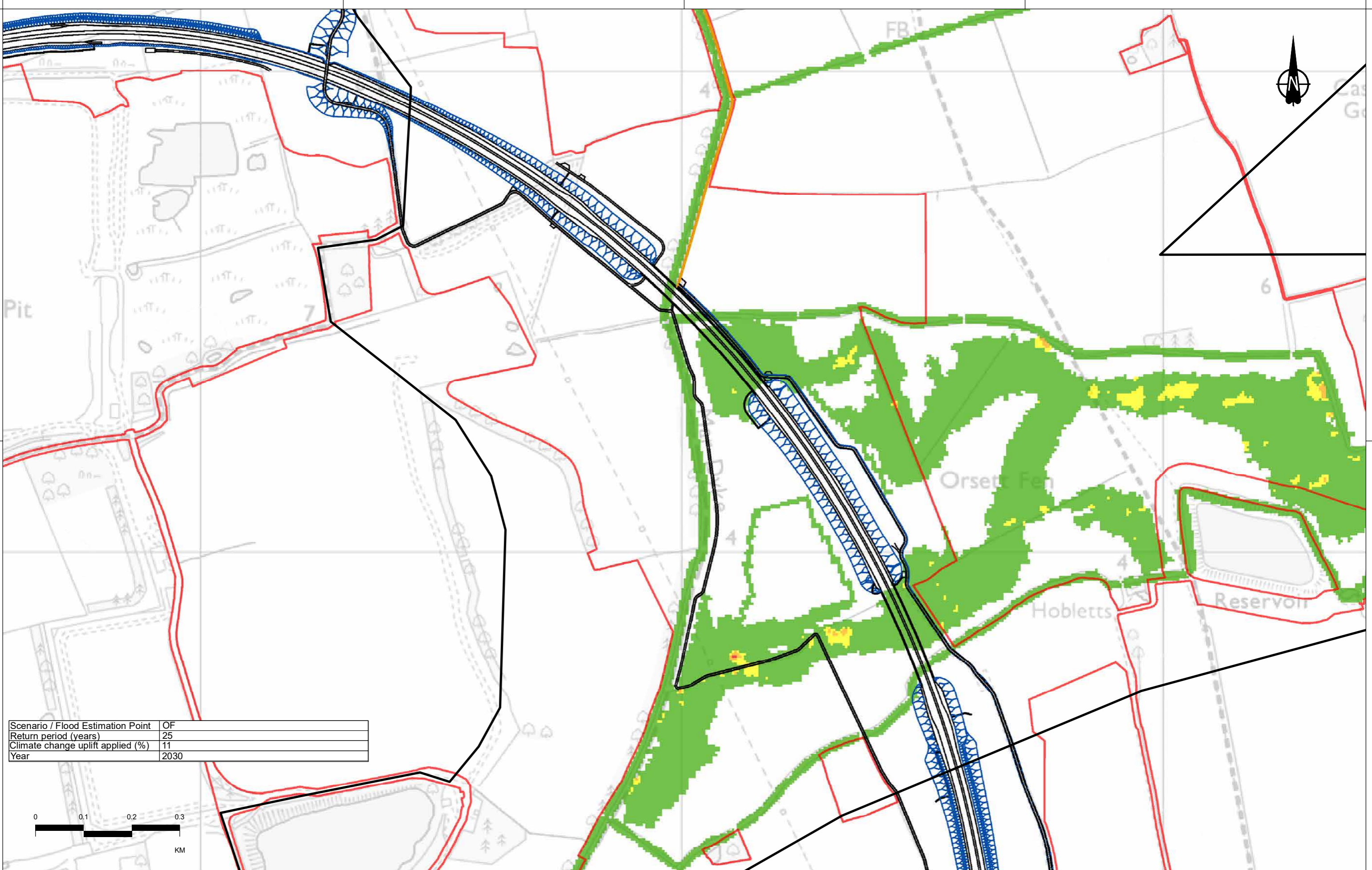
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	NMU Routes	



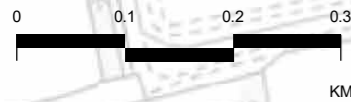
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
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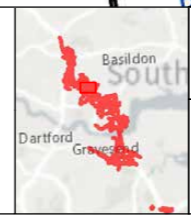


Scenario / Flood Estimation Point	OF
Return period (years)	25
Climate change uplift applied (%)	11
Year	2030



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

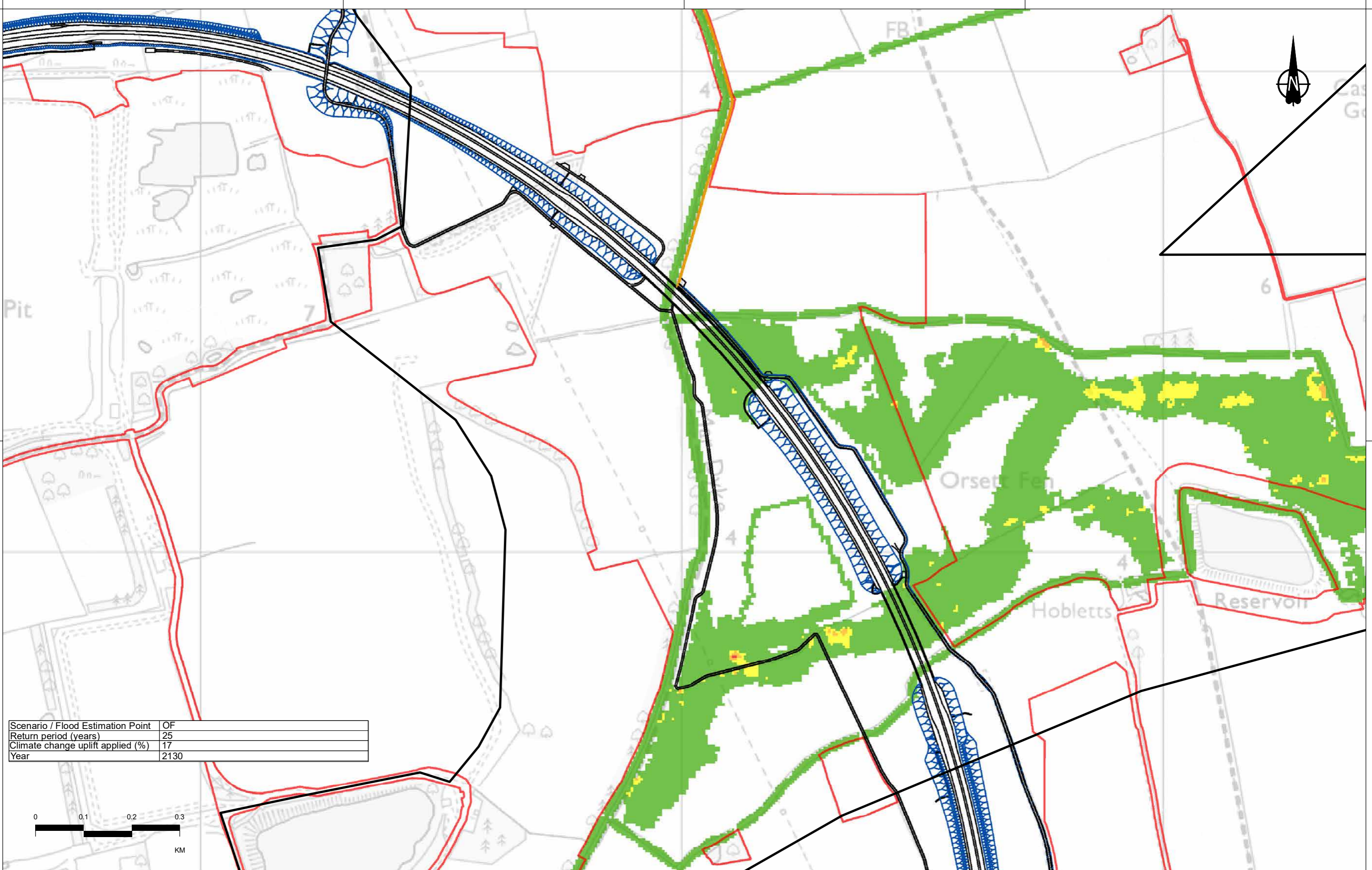
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	Alignment	0.5 - 1.0
	Earthworks	1.0 - 2
	NMU Routes	> 2.0



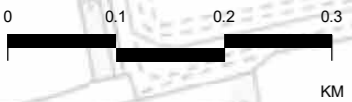
Client
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Project
LOWER THAMES CROSSING

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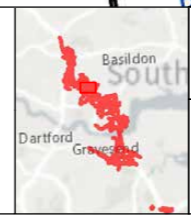
Scenario / Flood Estimation Point	OF
Return period (years)	25
Climate change uplift applied (%)	17
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

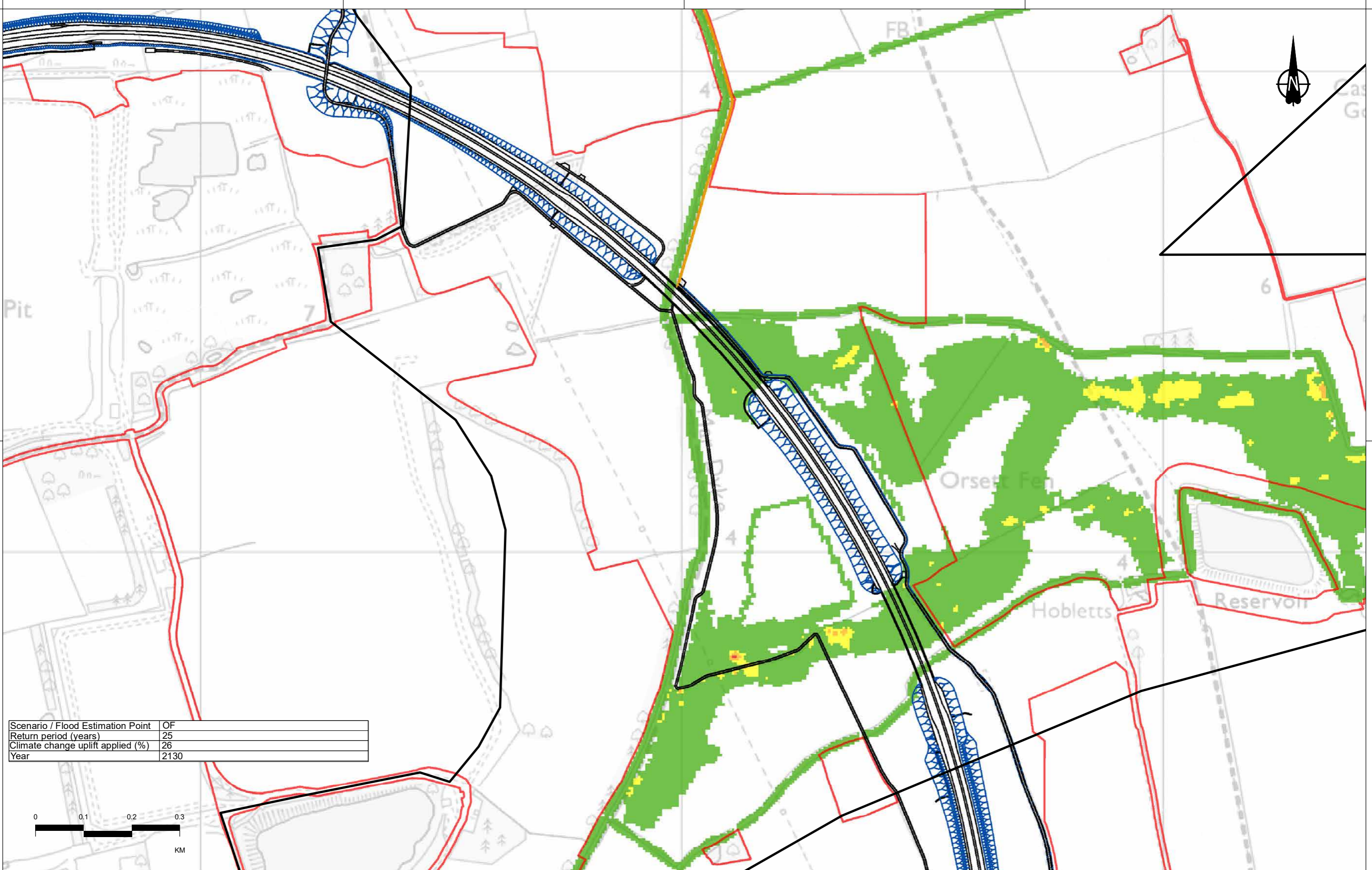
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2.0
		> 2.0



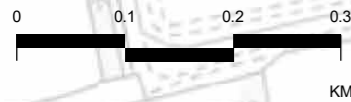
Client
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Project
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Status	DCO Application	Original Size	A3	Revision	P01
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Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00614				



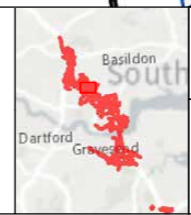
Scenario / Flood Estimation Point	OF
Return period (years)	25
Climate change uplift applied (%)	26
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd
P01	SB	10/10/2022	DCO Application	KK	RB	BF

Legend

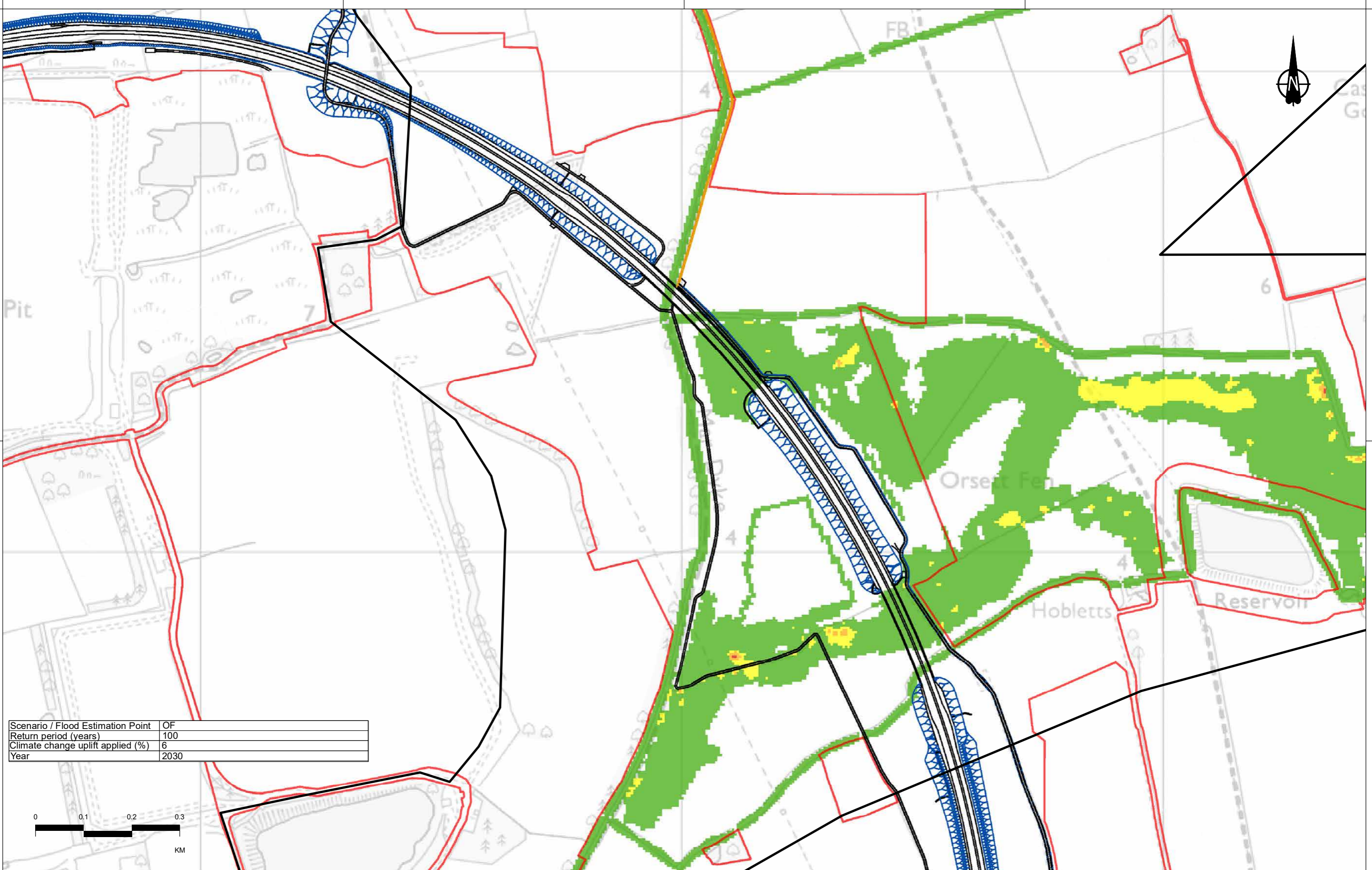
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
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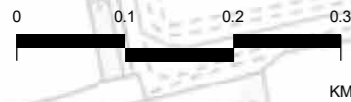
Client
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Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
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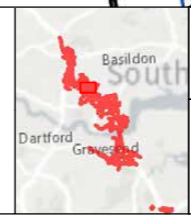
Scenario / Flood Estimation Point	OF
Return period (years)	100
Climate change uplift applied (%)	6
Year	2030



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

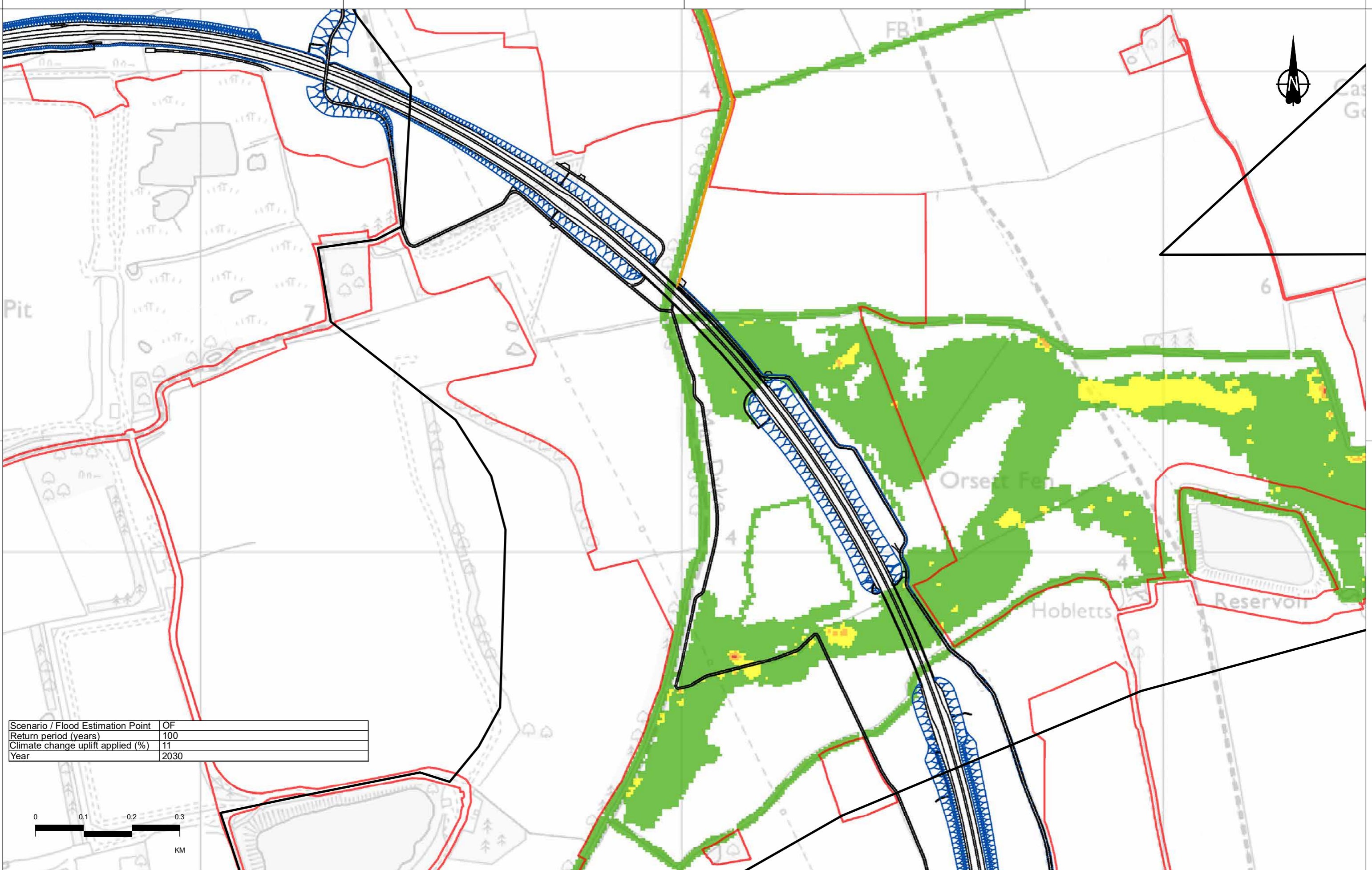
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



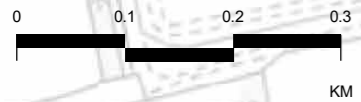
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 13 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00616				



Scenario / Flood Estimation Point	OF
Return period (years)	100
Climate change uplift applied (%)	11
Year	2030

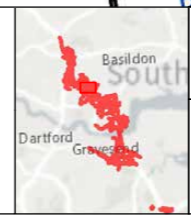


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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

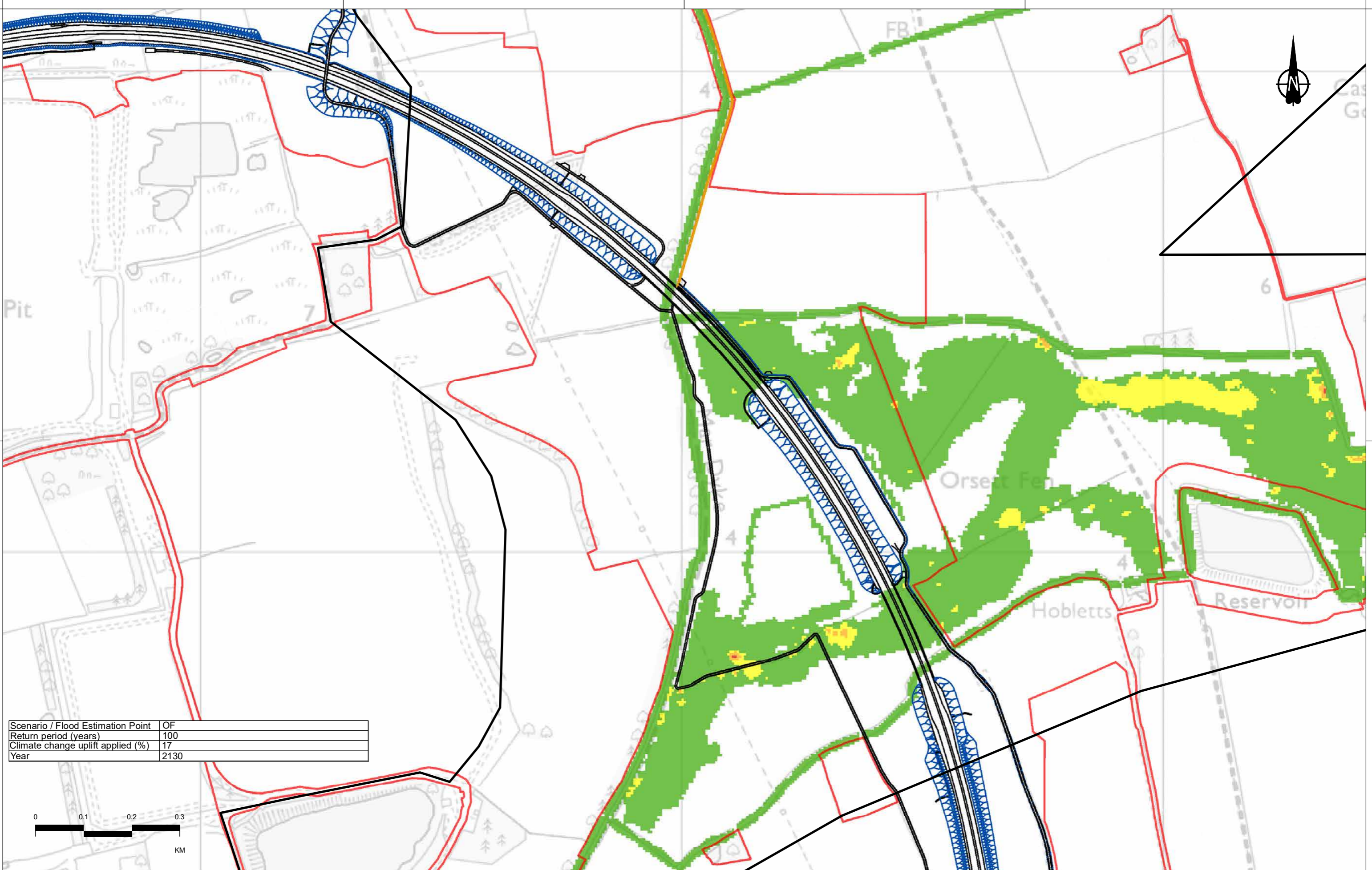
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



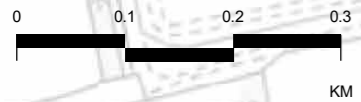
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 14 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00617				



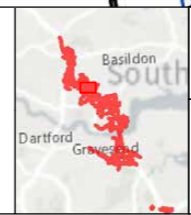
Scenario / Flood Estimation Point	OF
Return period (years)	100
Climate change uplift applied (%)	17
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

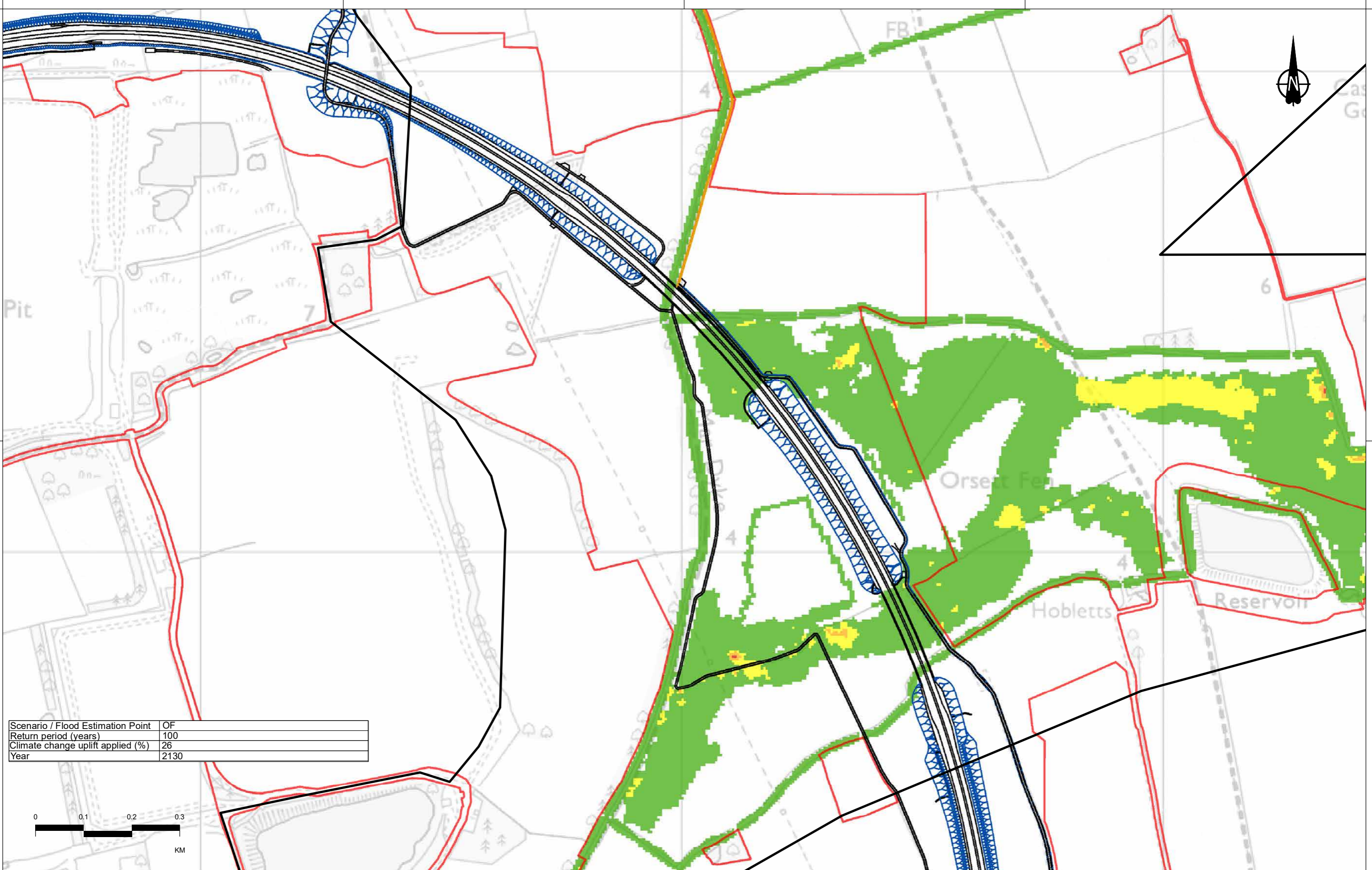
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



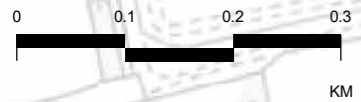
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 15 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00618				



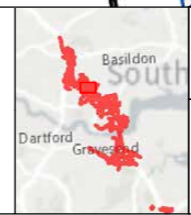
Scenario / Flood Estimation Point	OF
Return period (years)	100
Climate change uplift applied (%)	26
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

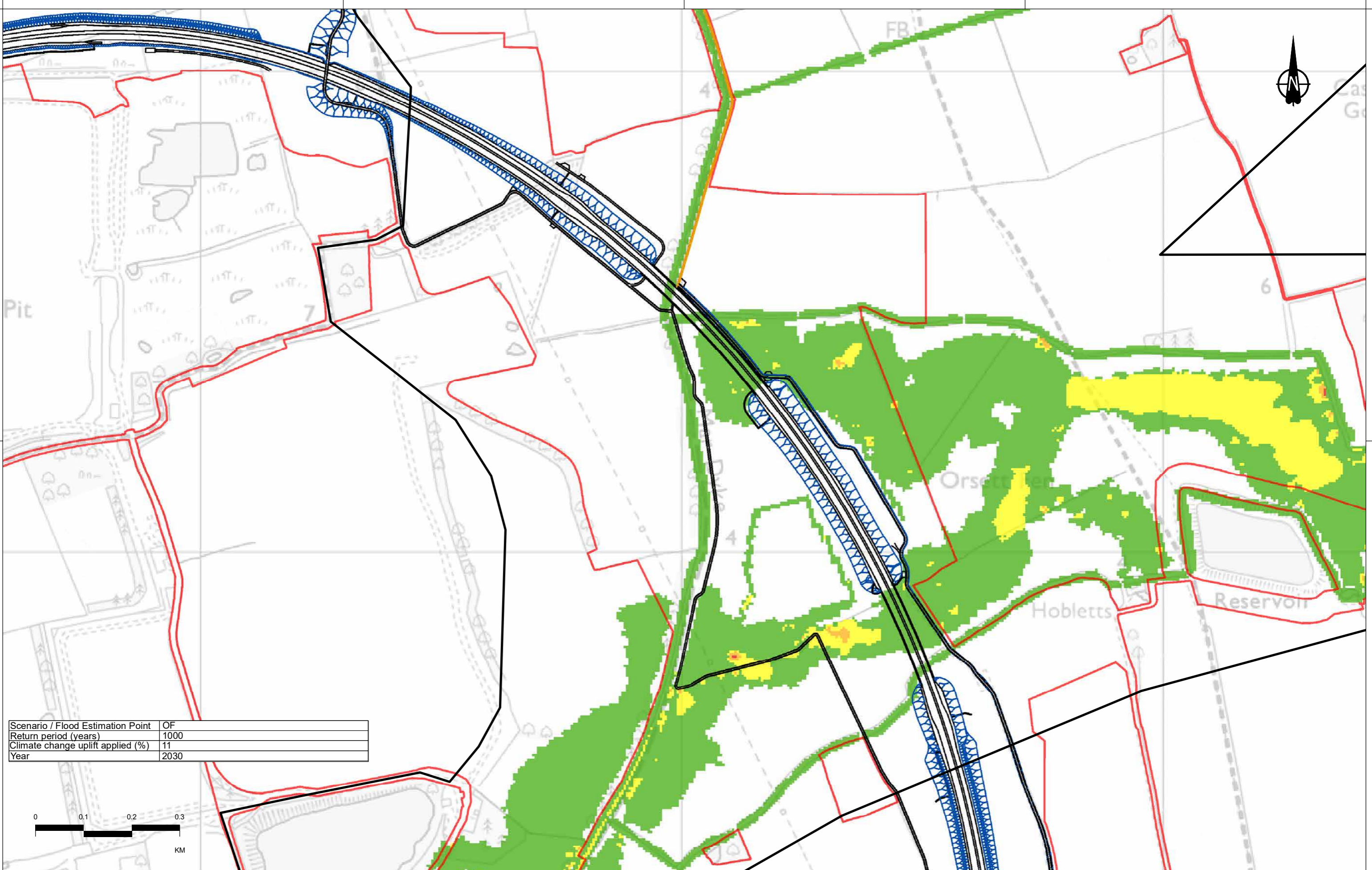
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0.25 - 0.5
	NMU Routes	0.5 - 1.0
		1.0 - 2
		> 2.0



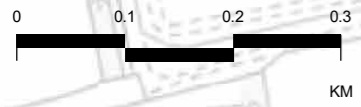
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 16 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00619				

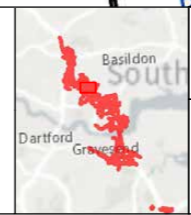


Scenario / Flood Estimation Point	OF
Return period (years)	1000
Climate change uplift applied (%)	11
Year	2030



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

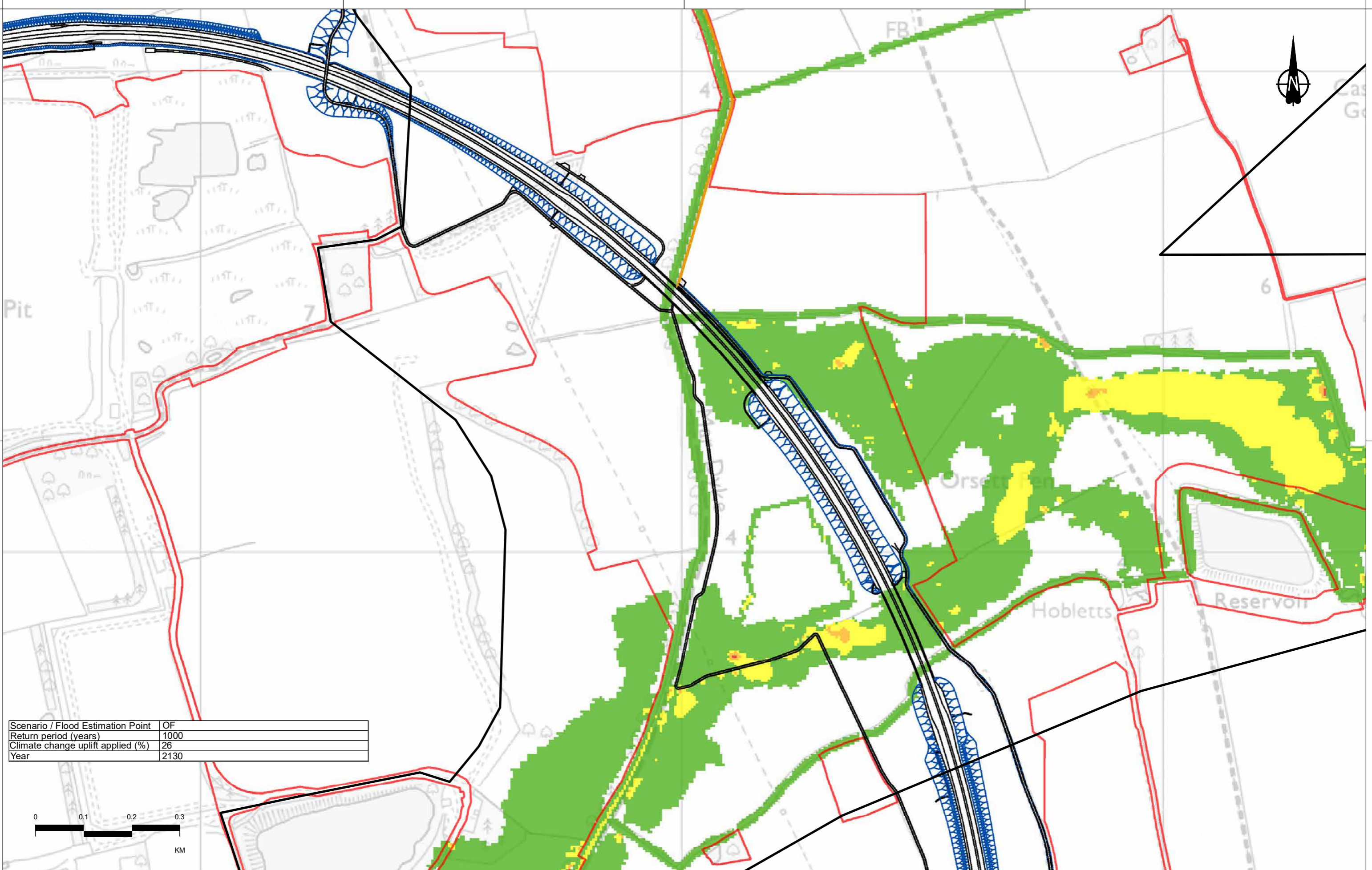
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0.25 - 0.5
	NMU Routes	0.5 - 1.0
		1.0 - 2
		> 2.0



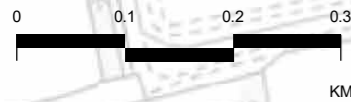
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 17 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00620				



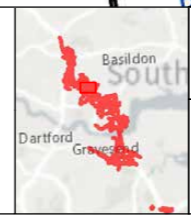
Scenario / Flood Estimation Point	OF
Return period (years)	1000
Climate change uplift applied (%)	26
Year	2130



Corona Ordnance Survey data. All other copyright and database rights 2022. Ordnance Survey 100030649						
P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

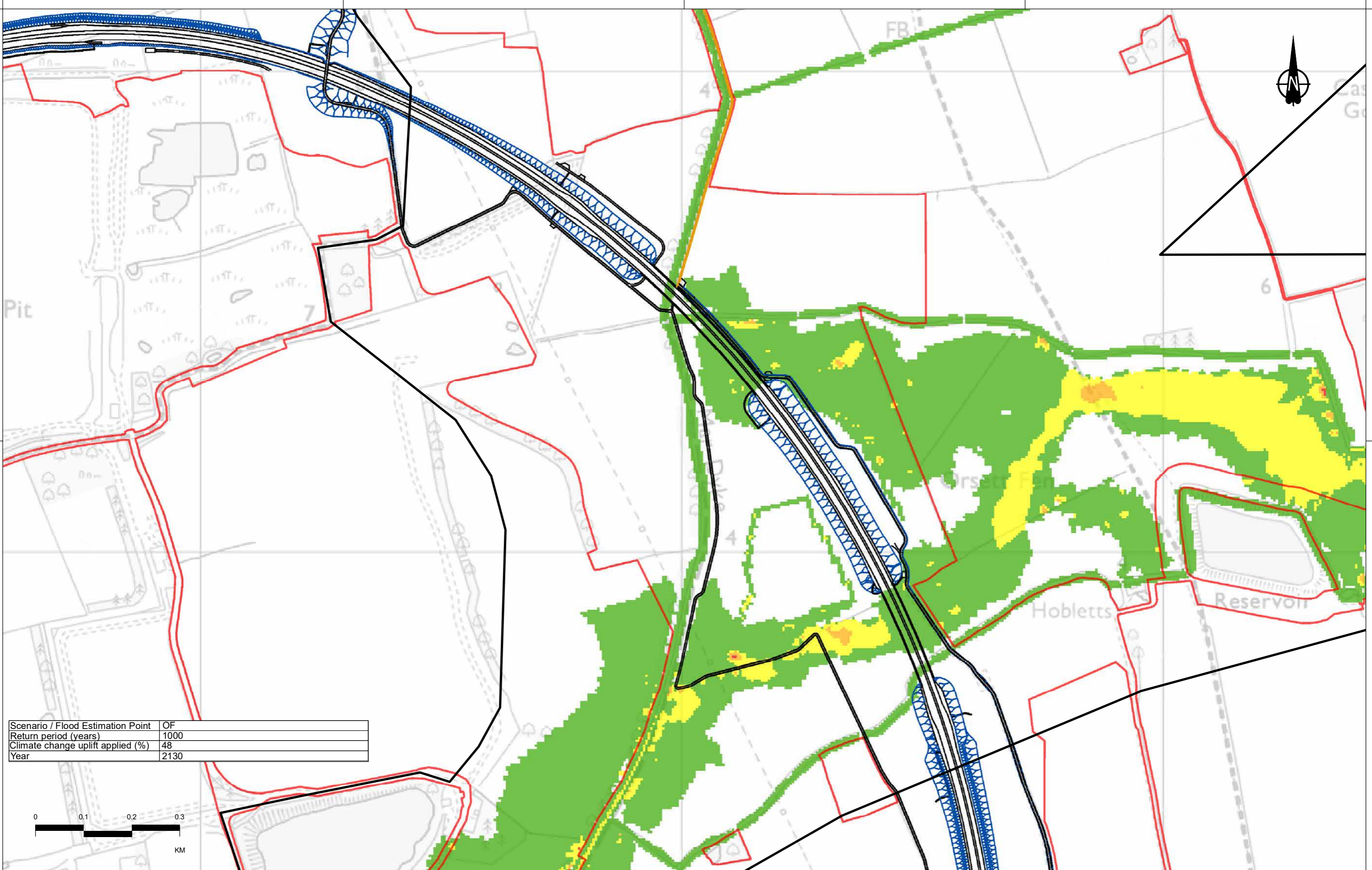
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0.25 - 0.5
	NMU Routes	0.5 - 1.0
		1.0 - 2
		> 2.0



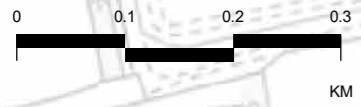
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 18 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00621				



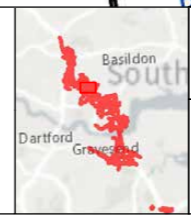
Scenario / Flood Estimation Point	OF
Return period (years)	1000
Climate change uplift applied (%)	48
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

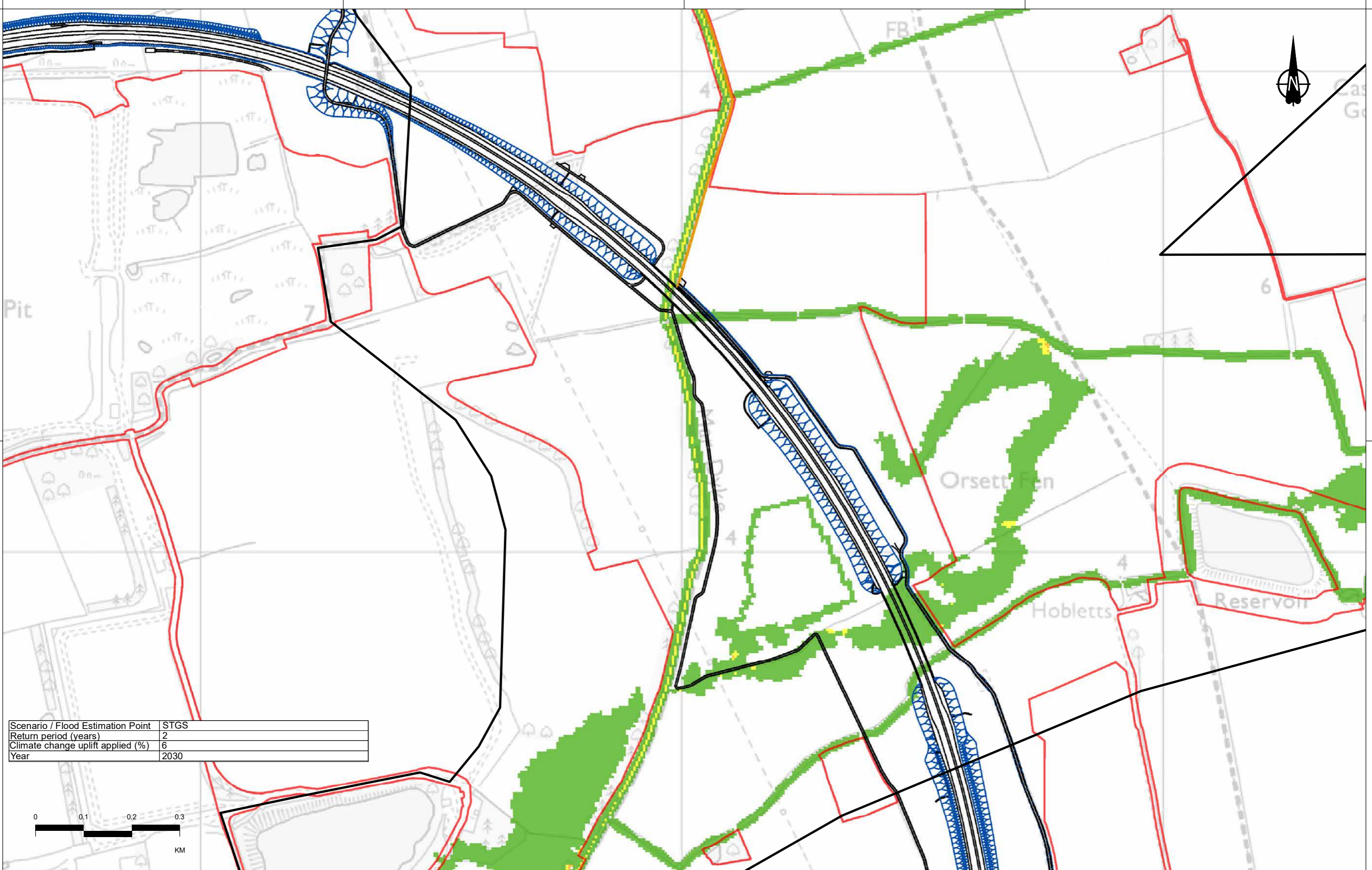
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



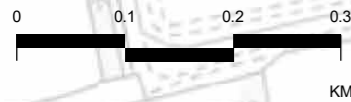
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 19 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00622				



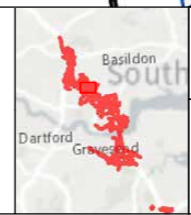
Scenario / Flood Estimation Point	STGS
Return period (years)	2
Climate change uplift applied (%)	6
Year	2030



P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

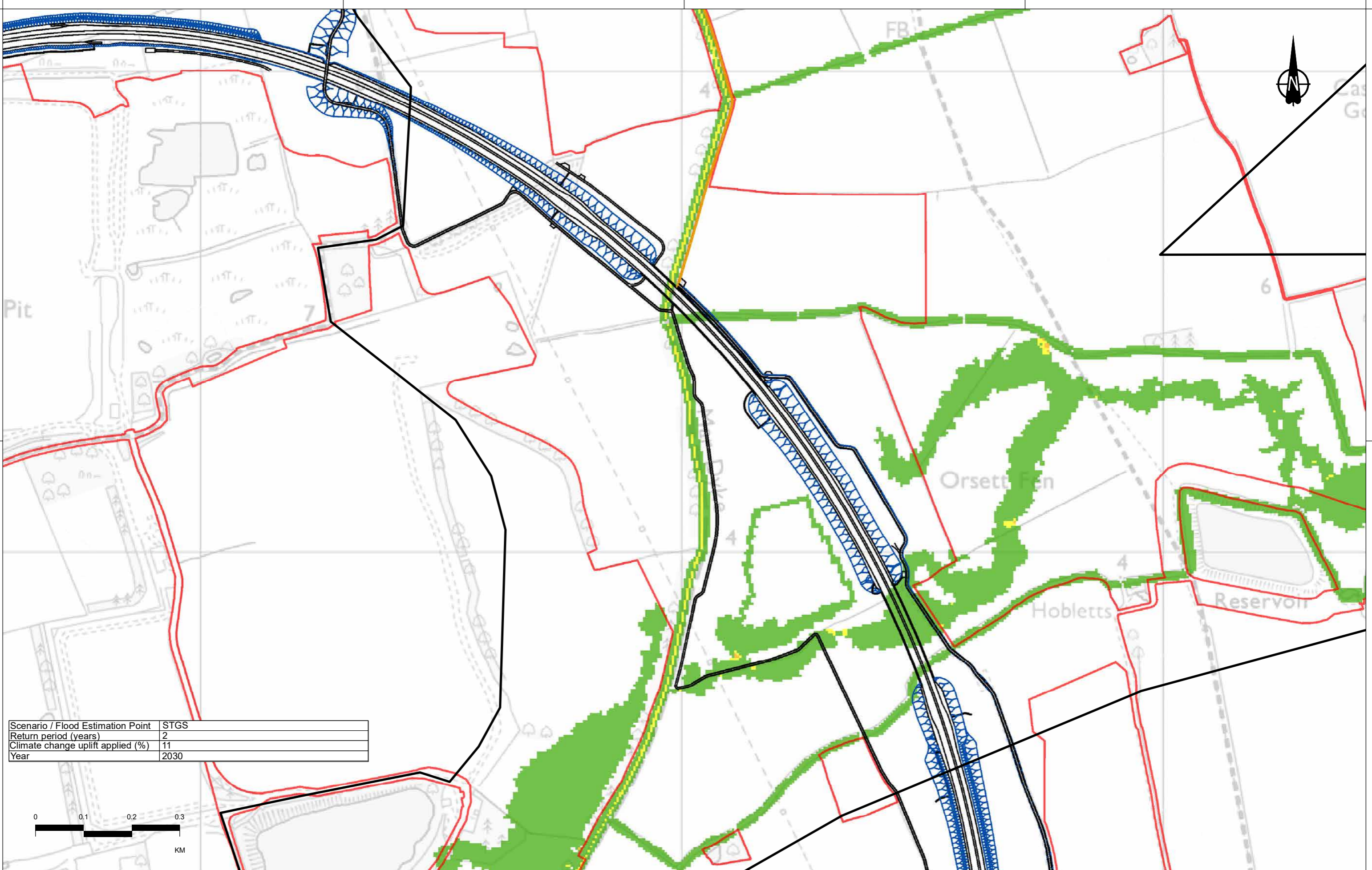
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Alignment	0 - 0.25
	Earthworks	0.25 - 0.5
	NMU Routes	0.5 - 1.0
		1.0 - 2
		> 2.0



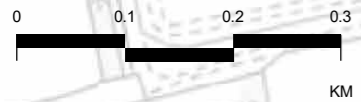
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Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 20 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00623				



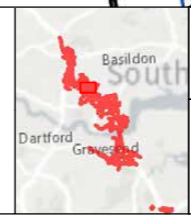
Scenario / Flood Estimation Point	STGS
Return period (years)	2
Climate change uplift applied (%)	11
Year	2030



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

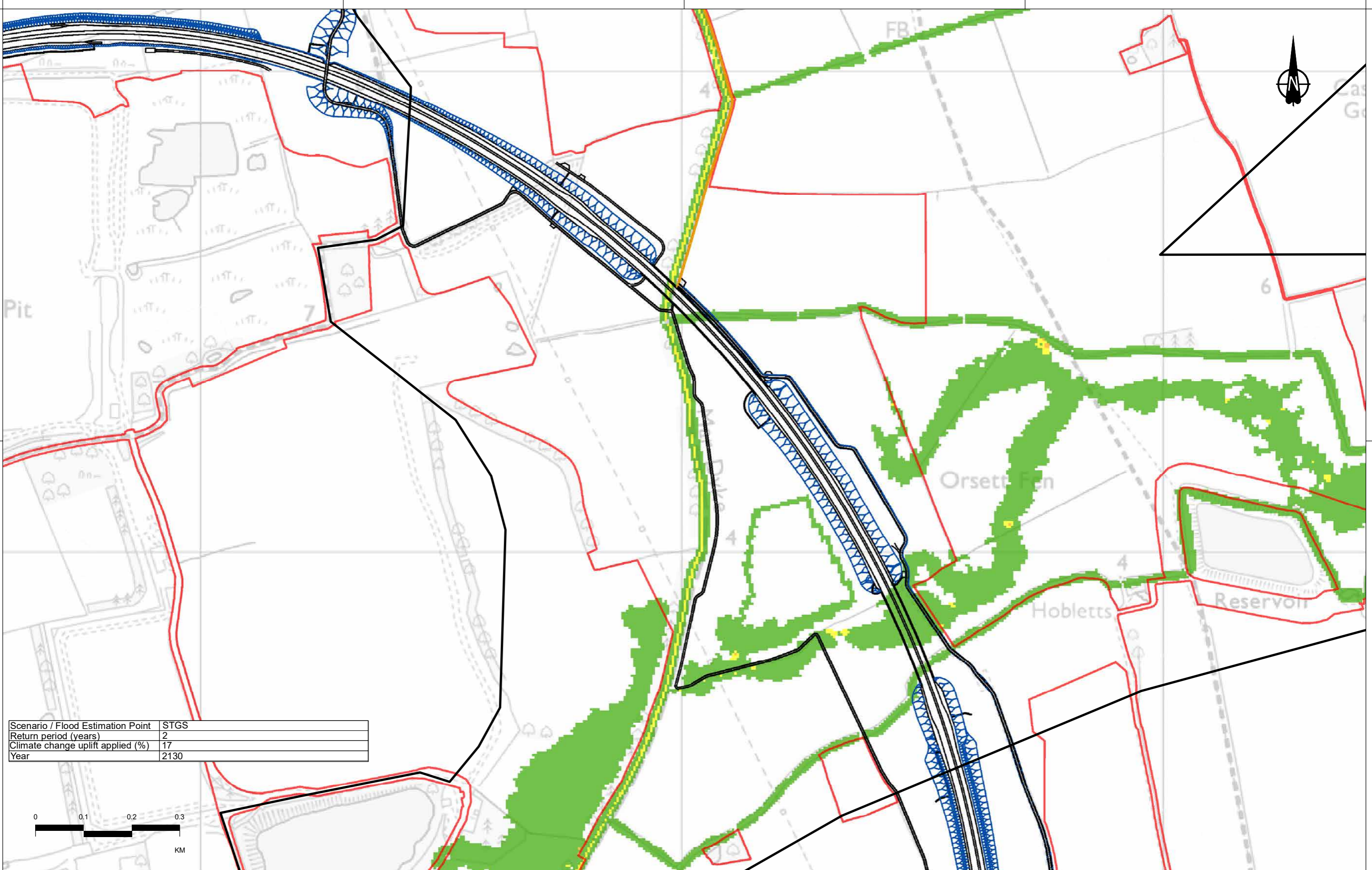
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



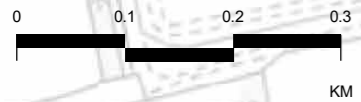
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 21 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00624				



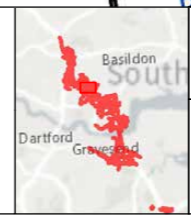
Scenario / Flood Estimation Point	STGS
Return period (years)	2
Climate change uplift applied (%)	17
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

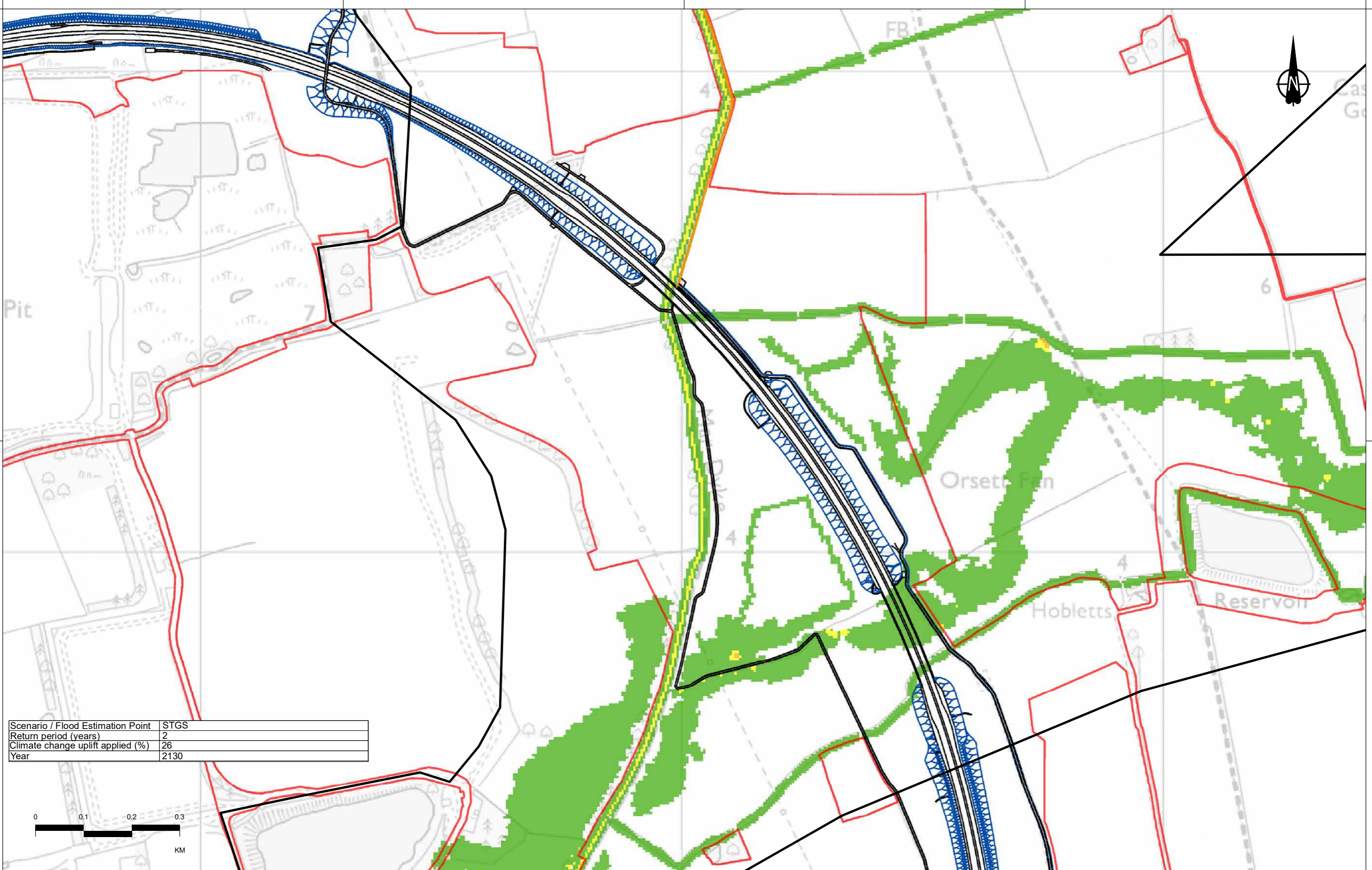
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



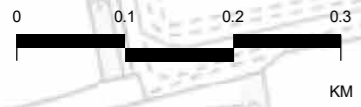
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 22 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00625				



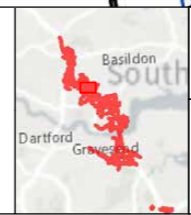
Scenario / Flood Estimation Point	STGS
Return period (years)	2
Climate change uplift applied (%)	26
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd

Legend

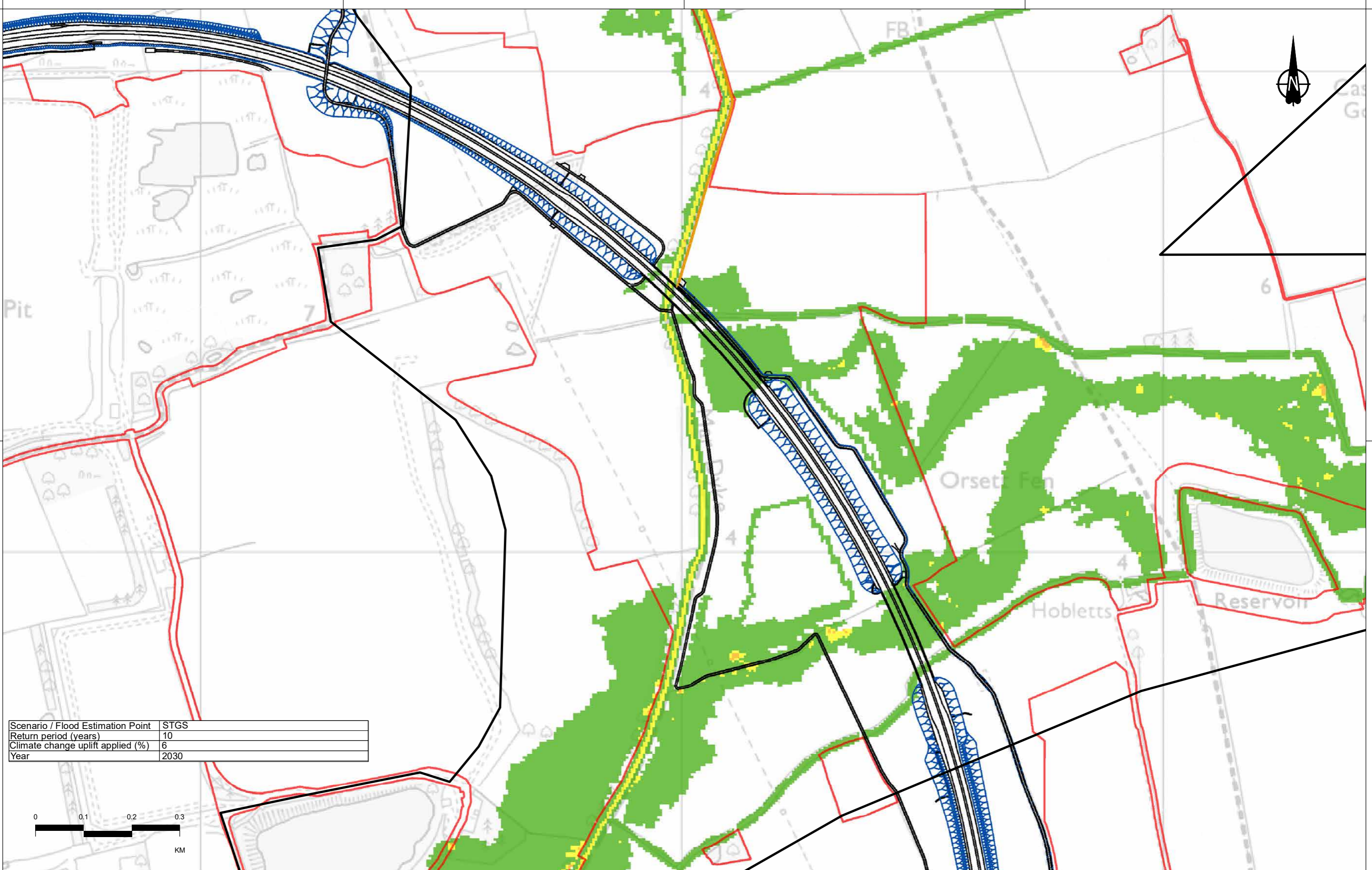
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 23 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00626				

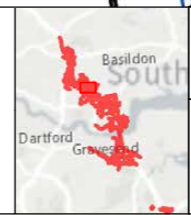


Scenario / Flood Estimation Point	STGS
Return period (years)	10
Climate change uplift applied (%)	6
Year	2030

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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

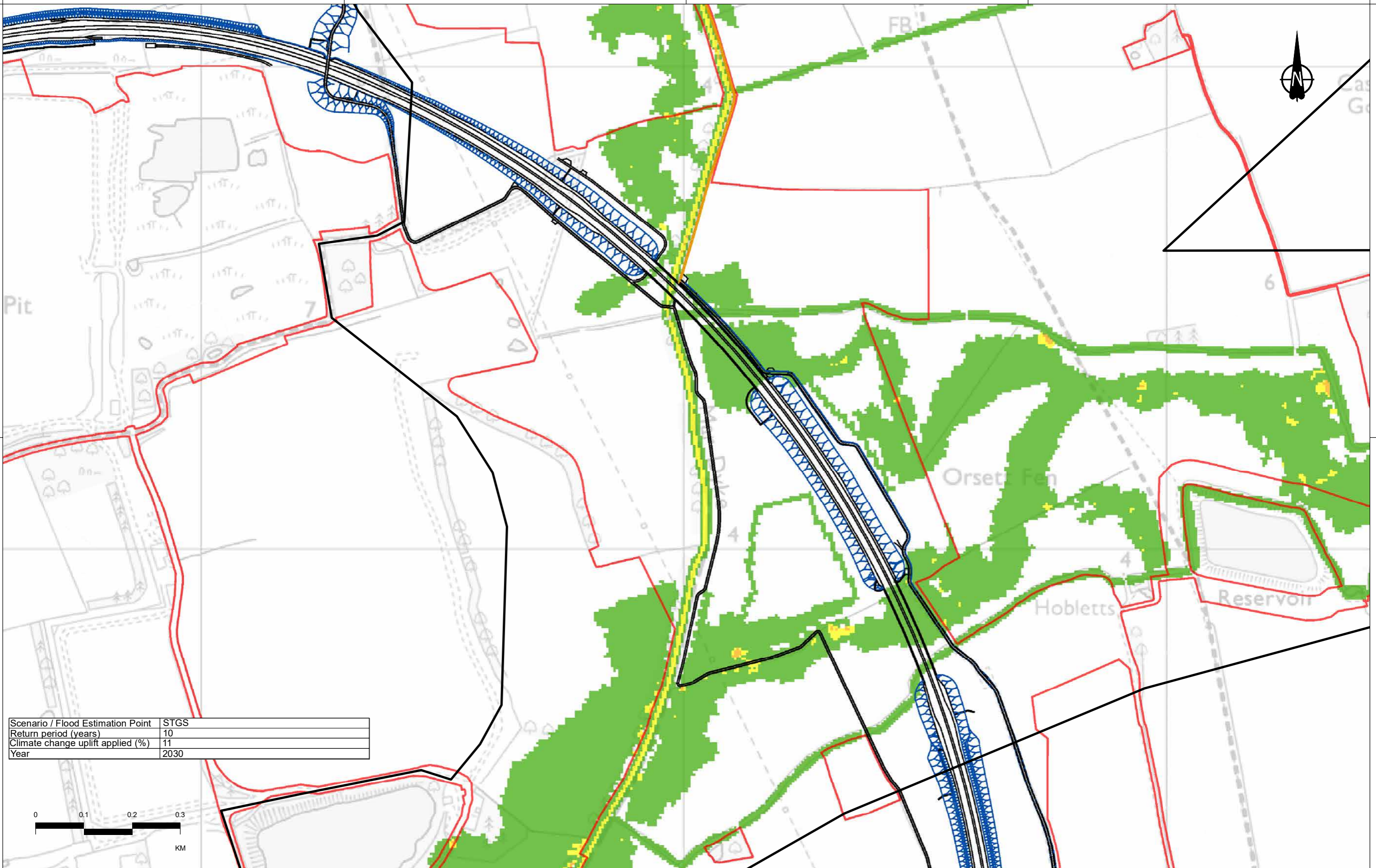
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



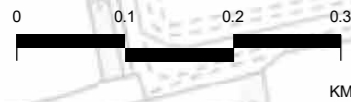
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 24 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00627				

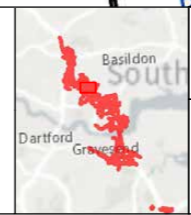


Scenario / Flood Estimation Point	STGS
Return period (years)	10
Climate change uplift applied (%)	11
Year	2030



PO1	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

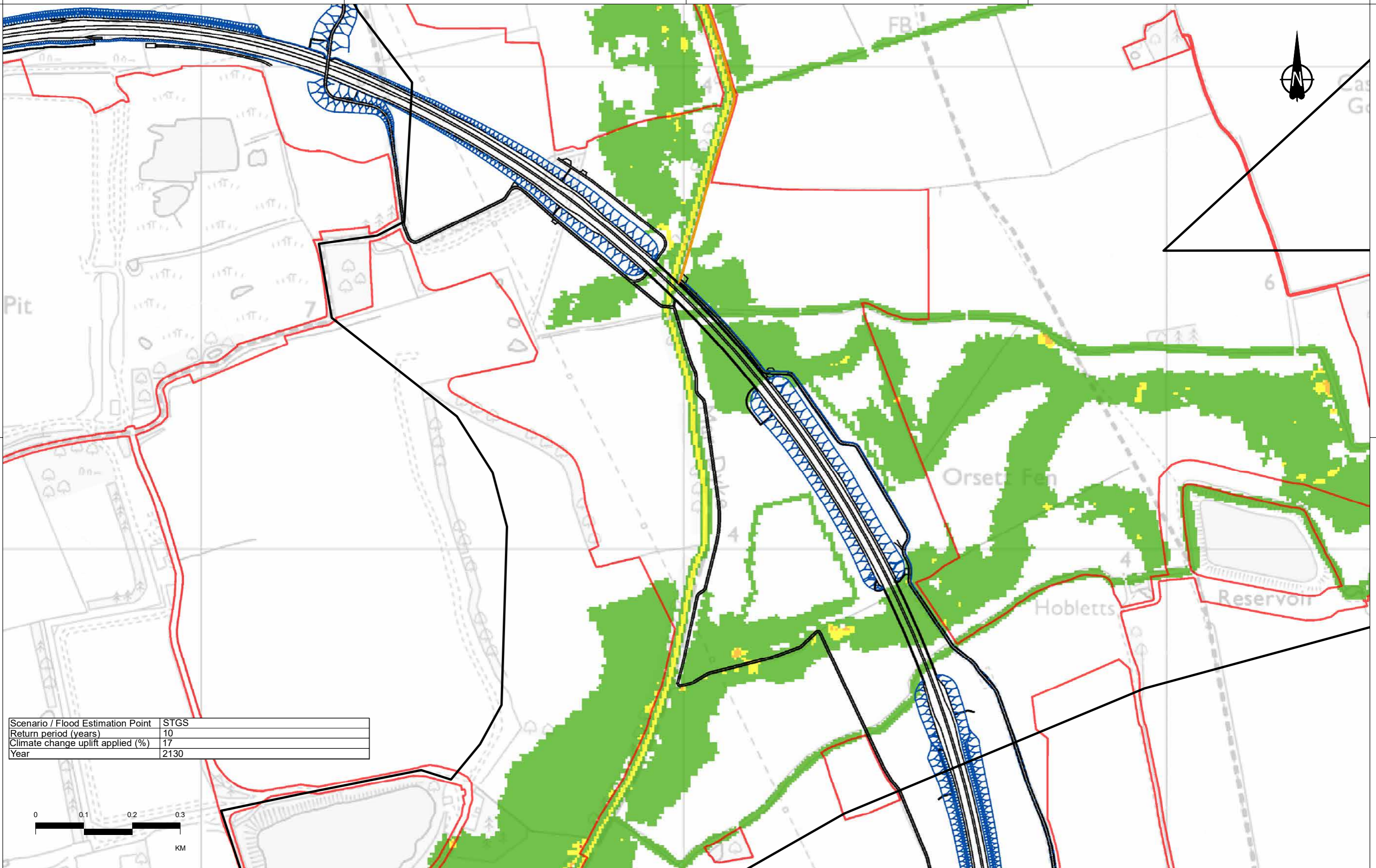
Legend		Maximum flood velocity (m/s)
	2D model extent	0 - 0.25
	Order Limits	0.25 - 0.5
	Alignment	0.5 - 1.0
	Earthworks	1.0 - 2
	NMU Routes	> 2.0



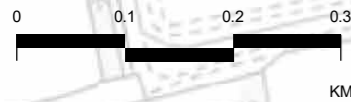
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 25 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00628				

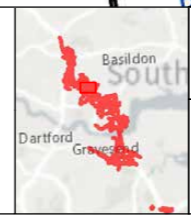


Scenario / Flood Estimation Point	STGS
Return period (years)	10
Climate change uplift applied (%)	17
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd
P01	SB	10/10/2022	DCO Application	KK	RB	BF

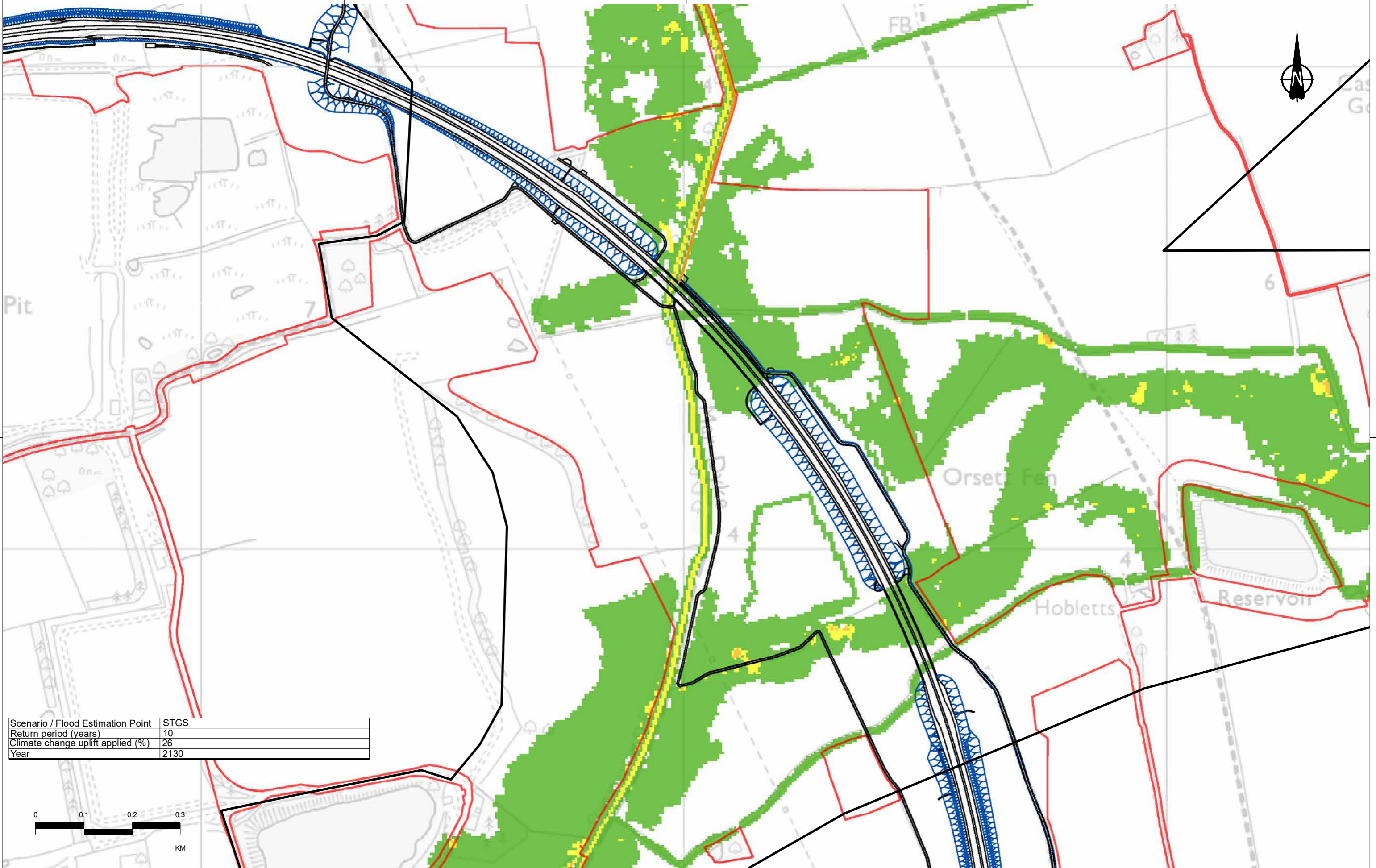
Legend		Maximum flood velocity (m/s)
	2D model extent	0 - 0.25
	Order Limits	0.25 - 0.5
	Alignment	0.5 - 1.0
	Earthworks	1.0 - 2
	NMU Routes	> 2.0



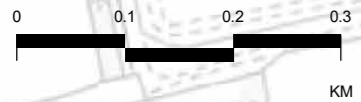
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 26 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00629				



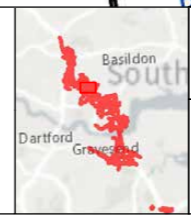
Scenario / Flood Estimation Point	STGS
Return period (years)	10
Climate change uplift applied (%)	26
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



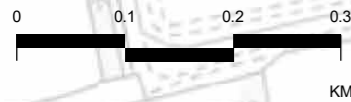
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 27 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00630				



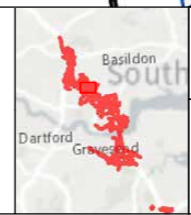
Scenario / Flood Estimation Point	STGS
Return period (years)	25
Climate change uplift applied (%)	6
Year	2030



P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

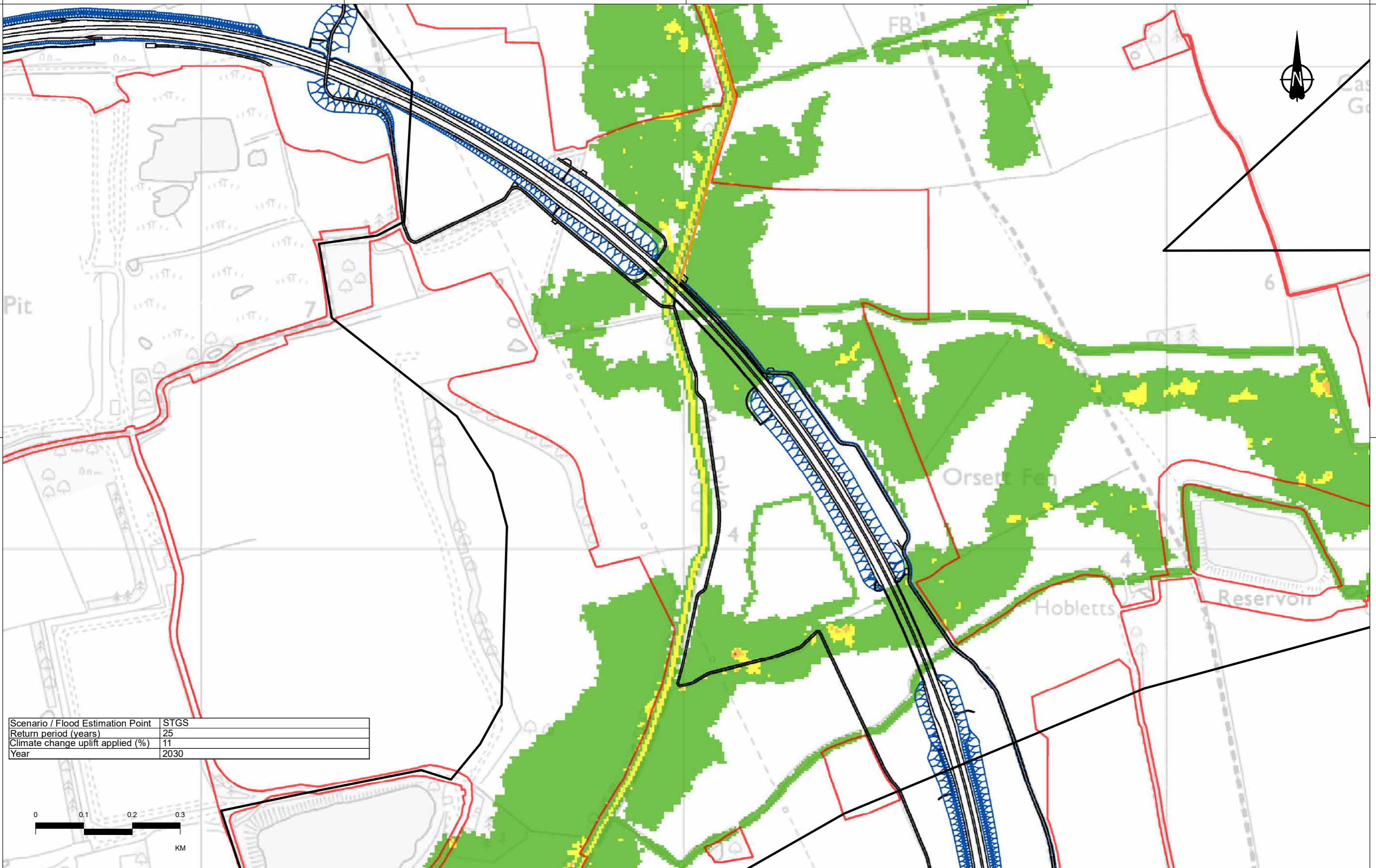
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



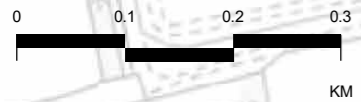
Client:

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 28 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00631				



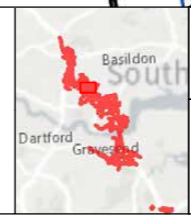
Scenario / Flood Estimation Point	STGS
Return period (years)	25
Climate change uplift applied (%)	11
Year	2030



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

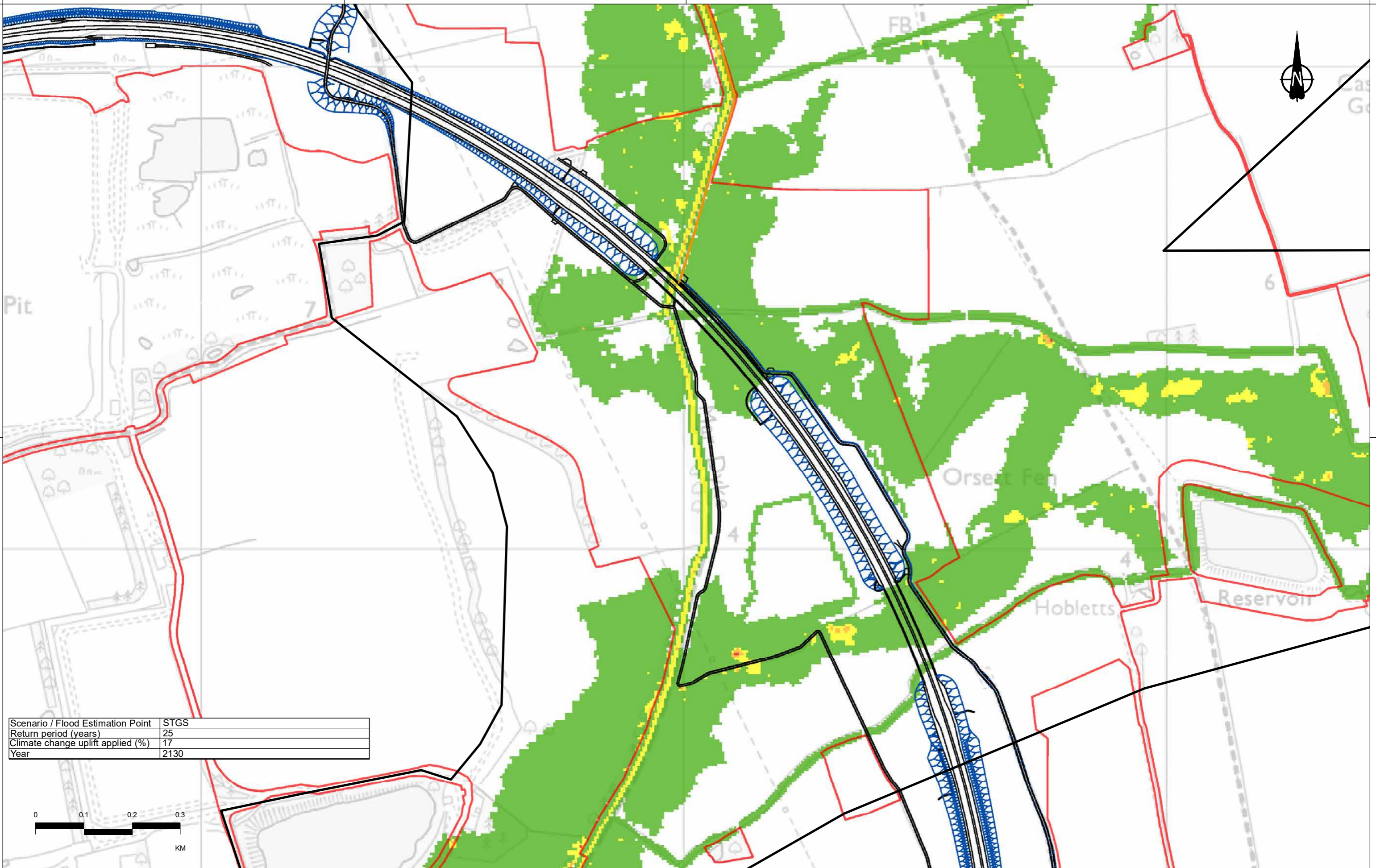
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



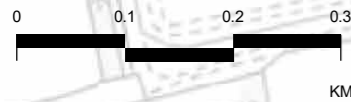
Client
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Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 29 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00632				



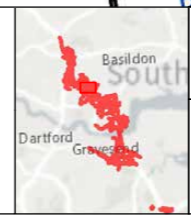
Scenario / Flood Estimation Point	STGS
Return period (years)	25
Climate change uplift applied (%)	17
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

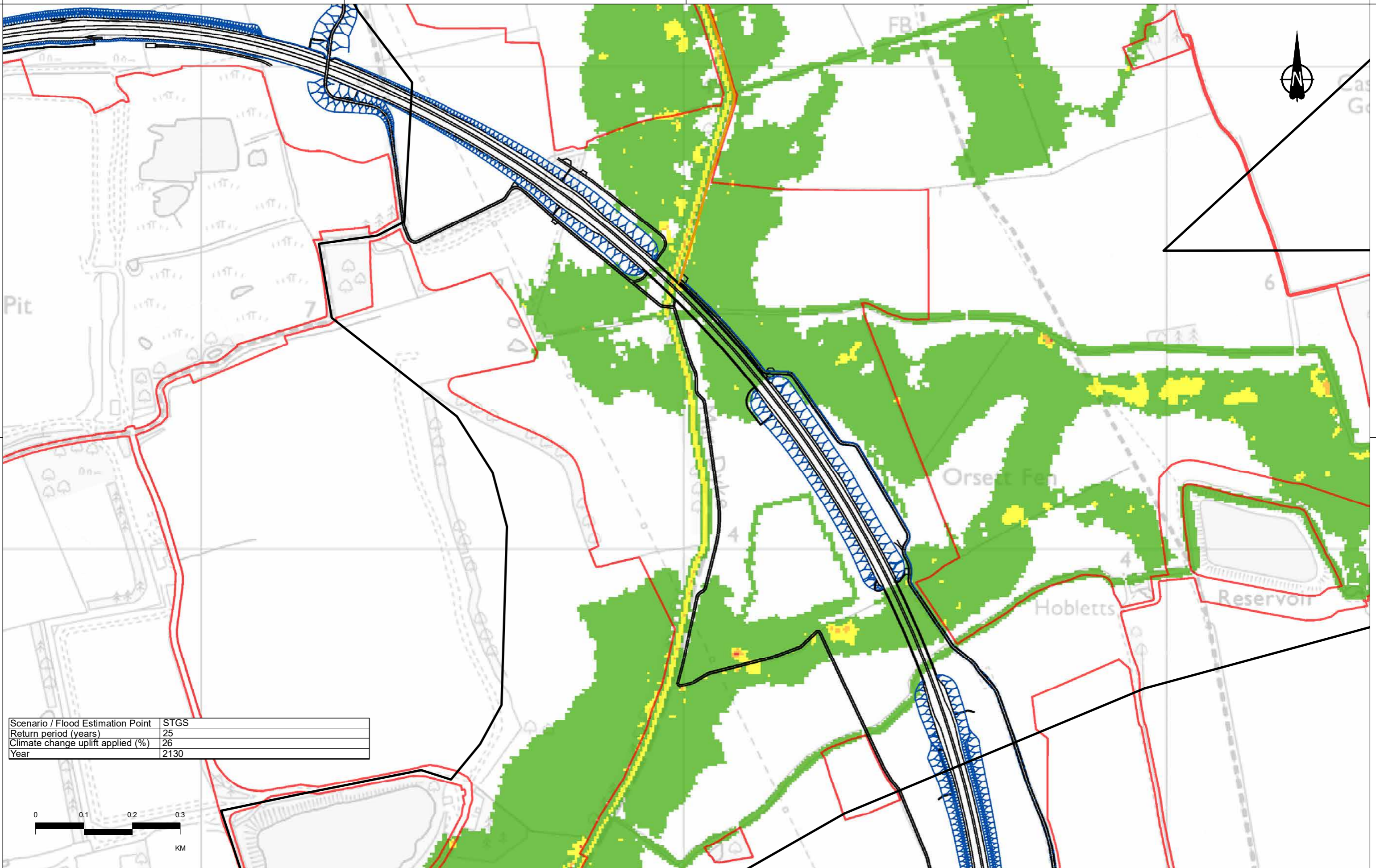
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



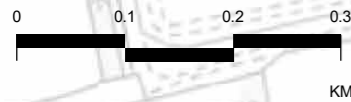
Client
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Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 30 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00633				

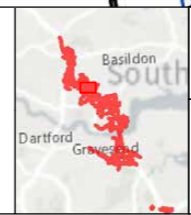


Scenario / Flood Estimation Point	STGS
Return period (years)	25
Climate change uplift applied (%)	26
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

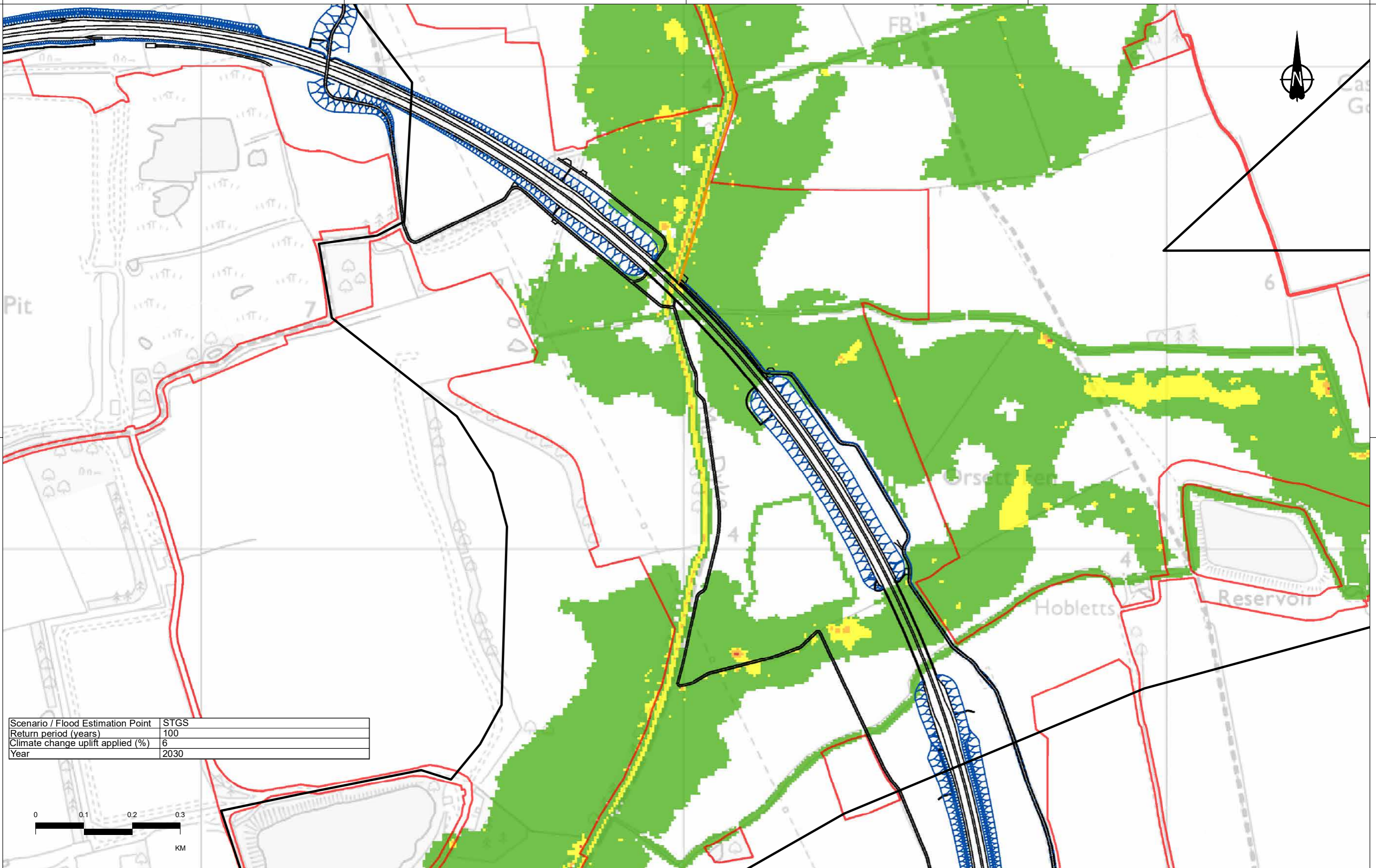
Legend		Maximum flood velocity (m/s)
	2D model extent	0 - 0.25
	Order Limits	0.25 - 0.5
	Alignment	0.5 - 1.0
	Earthworks	1.0 - 2
	NMU Routes	> 2.0



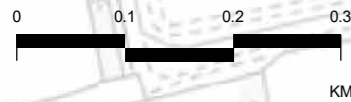
Client
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Project
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Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 31 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00634				



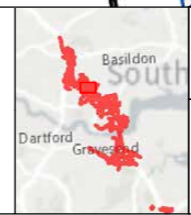
Scenario / Flood Estimation Point	STGS
Return period (years)	100
Climate change uplift applied (%)	6
Year	2030



P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

Legend

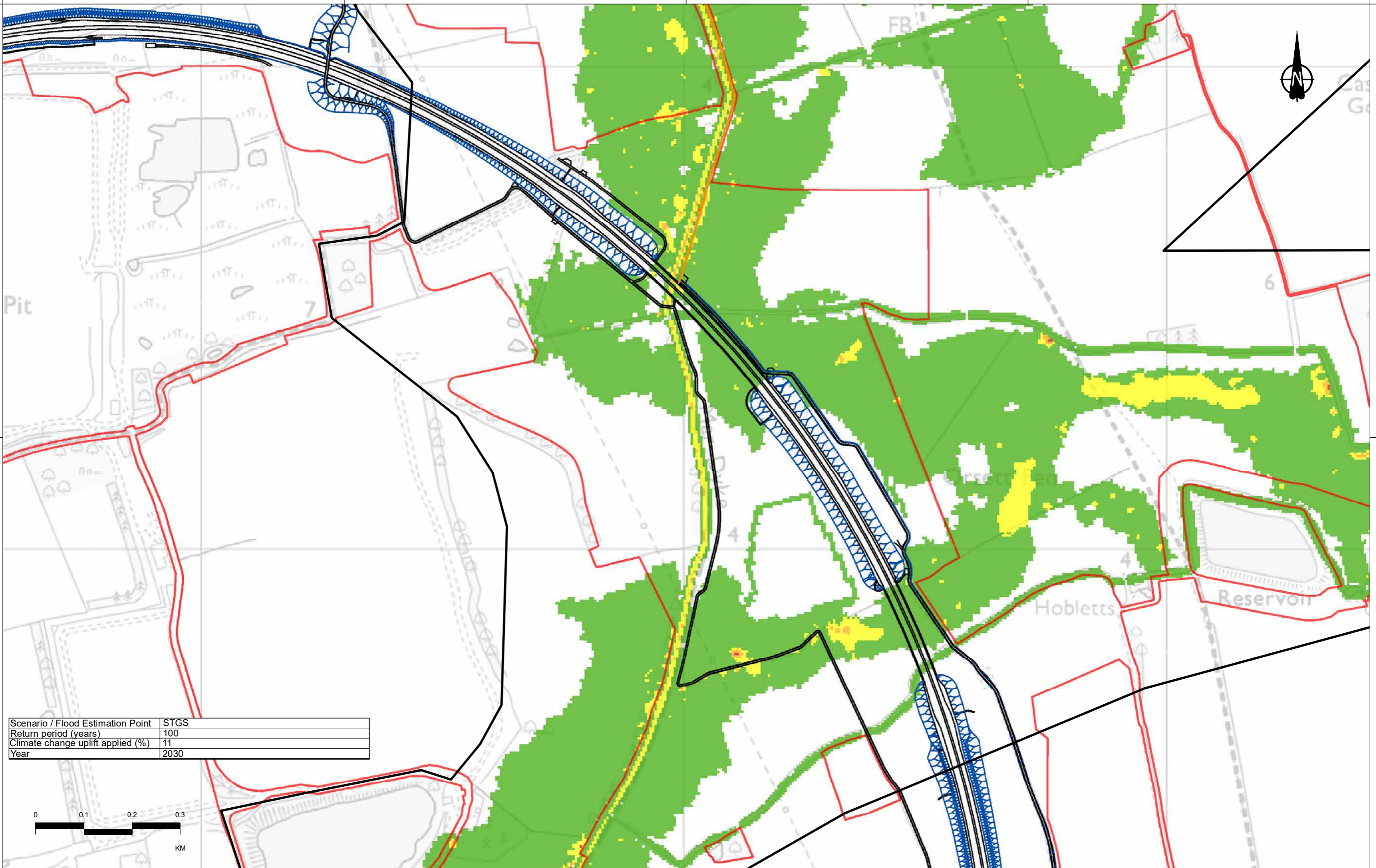
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0.25 - 0.5
	NMU Routes	0.5 - 1.0
		1.0 - 2
		> 2.0



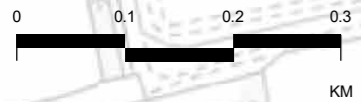
Client
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Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 32 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00635				



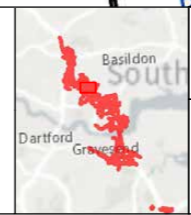
Scenario / Flood Estimation Point	STGS
Return period (years)	100
Climate change uplift applied (%)	11
Year	2030



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

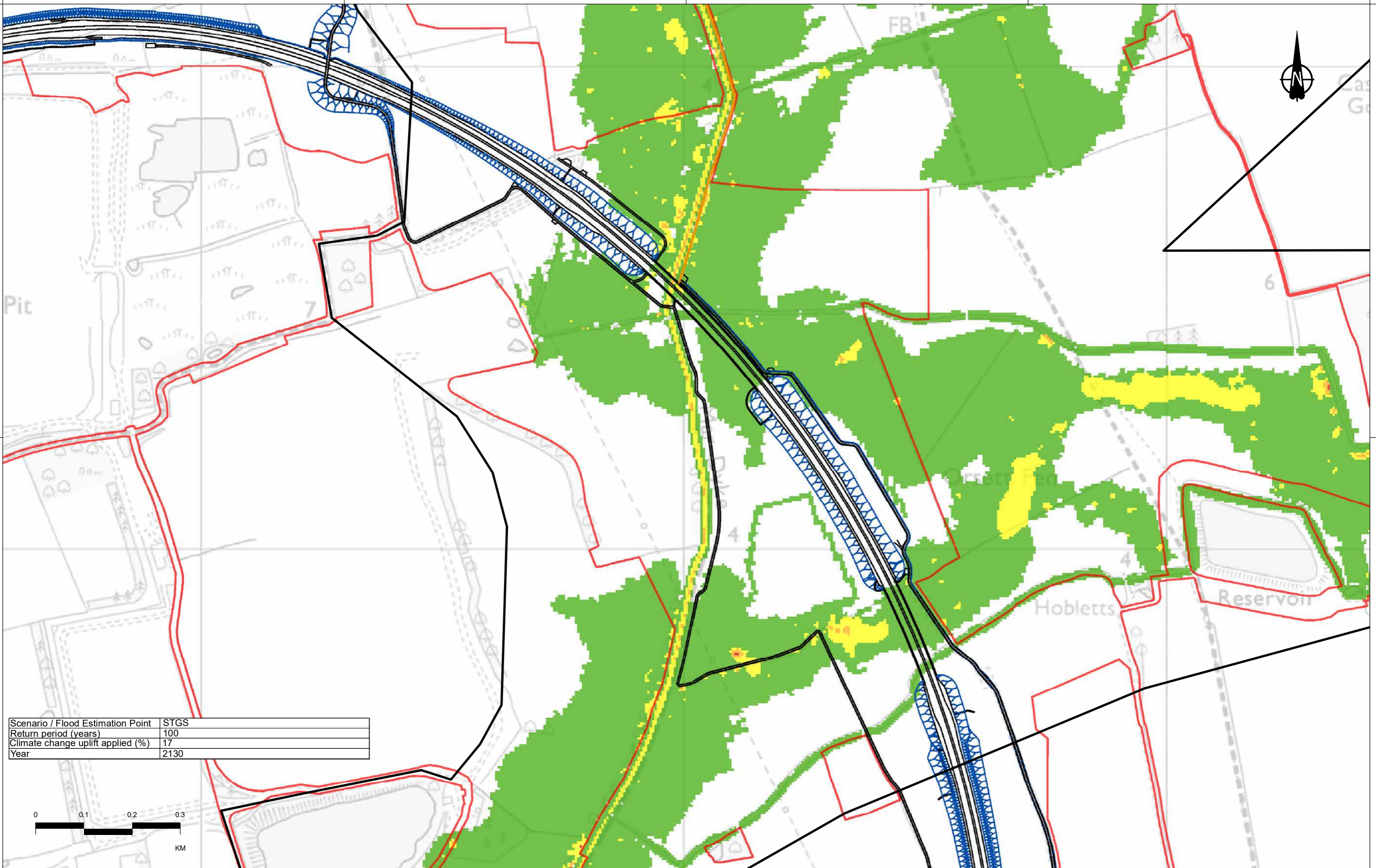
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



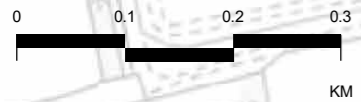
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Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 33 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00636				



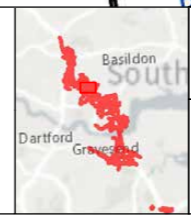
Scenario / Flood Estimation Point	STGS
Return period (years)	100
Climate change uplift applied (%)	17
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

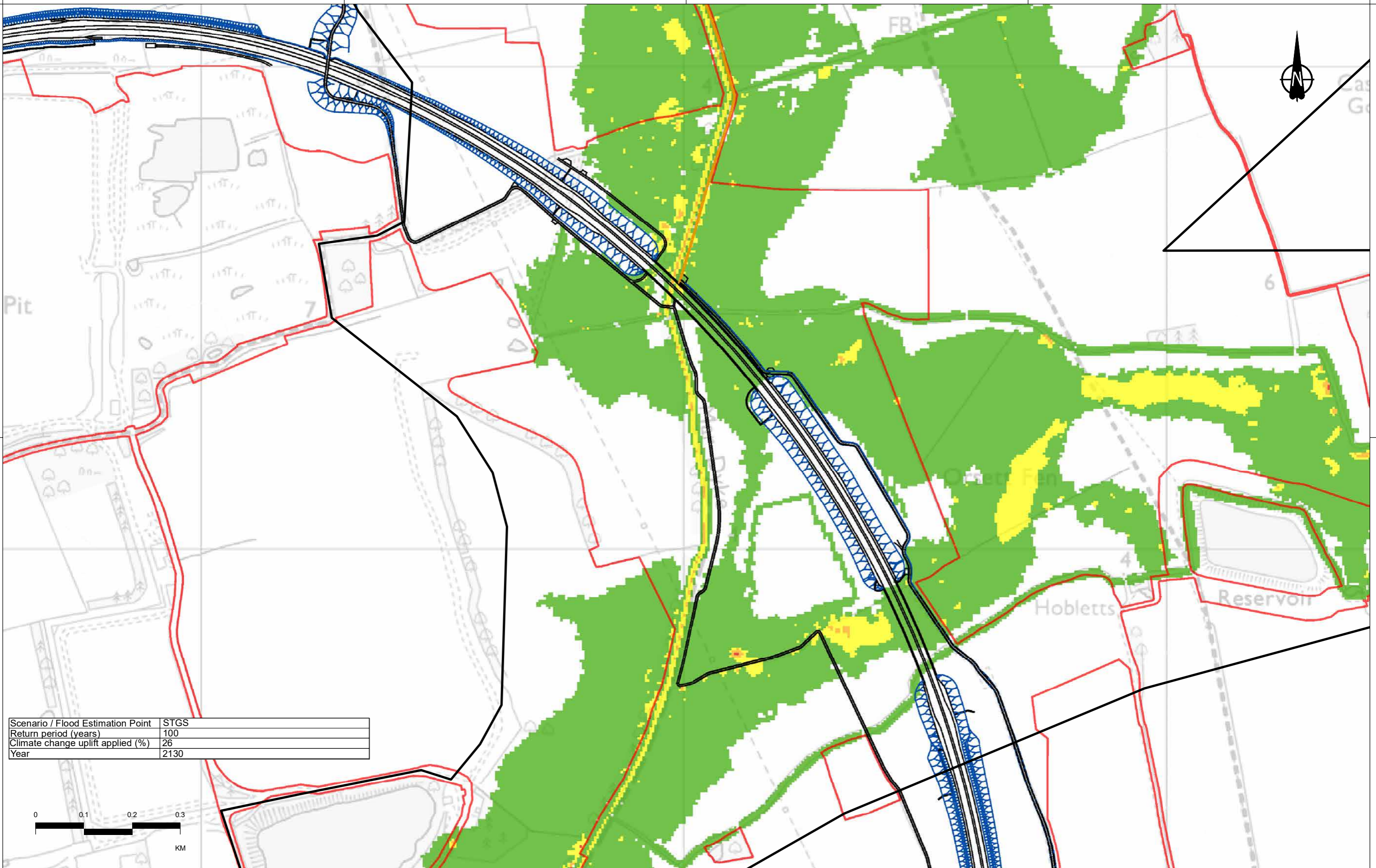
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0.25 - 0.5
	NMU Routes	0.5 - 1.0
		1.0 - 2
		> 2.0



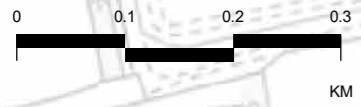
Client
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Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 34 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00637				



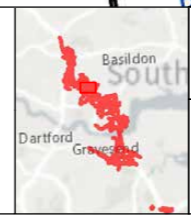
Scenario / Flood Estimation Point	STGS
Return period (years)	100
Climate change uplift applied (%)	26
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

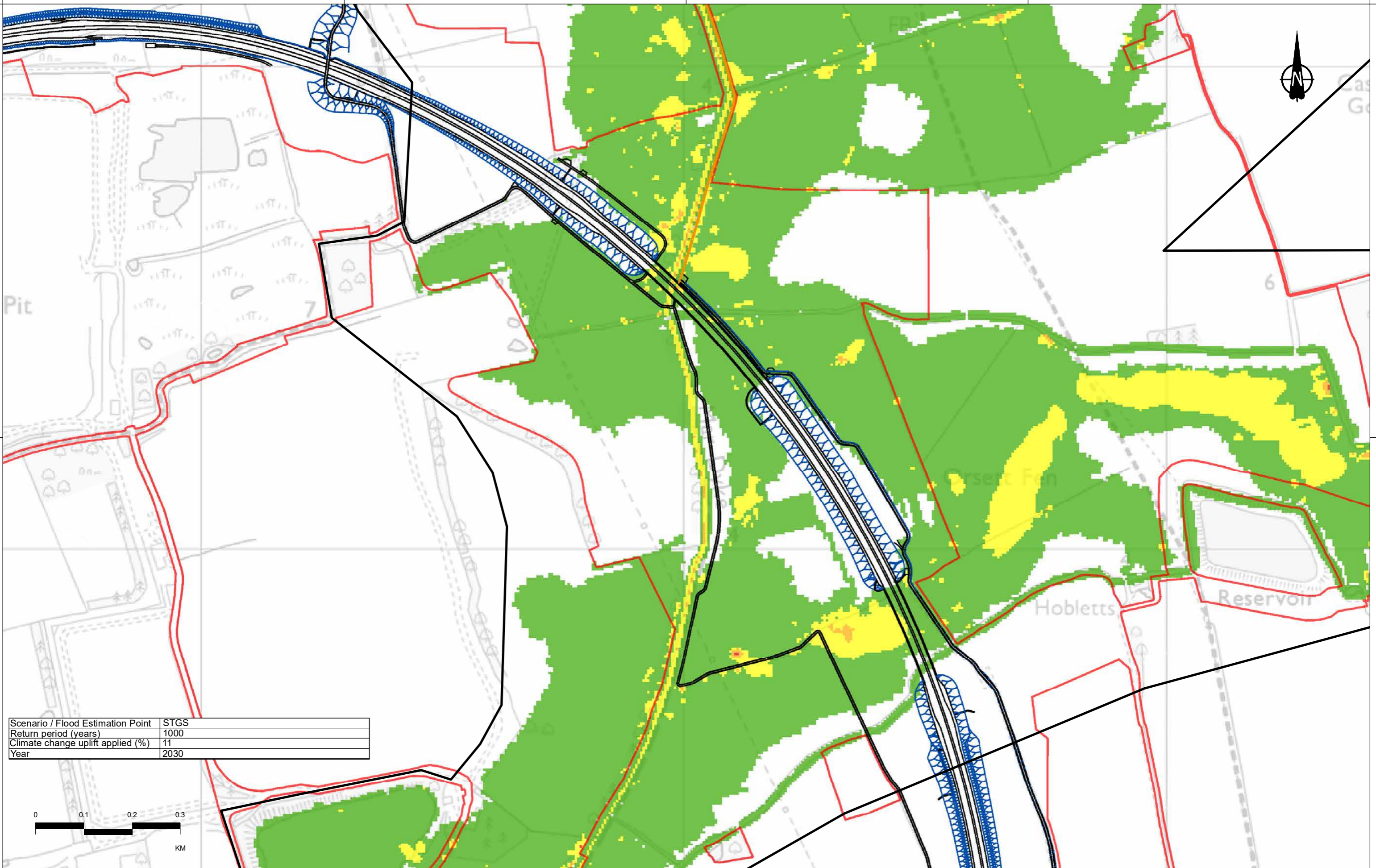
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0.25 - 0.5
	NMU Routes	0.5 - 1.0
		1.0 - 2
		> 2.0



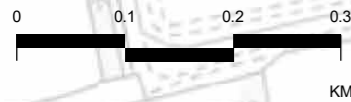
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Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 35 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00638				



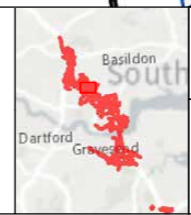
Scenario / Flood Estimation Point	STGS
Return period (years)	1000
Climate change uplift applied (%)	11
Year	2030



P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

Legend

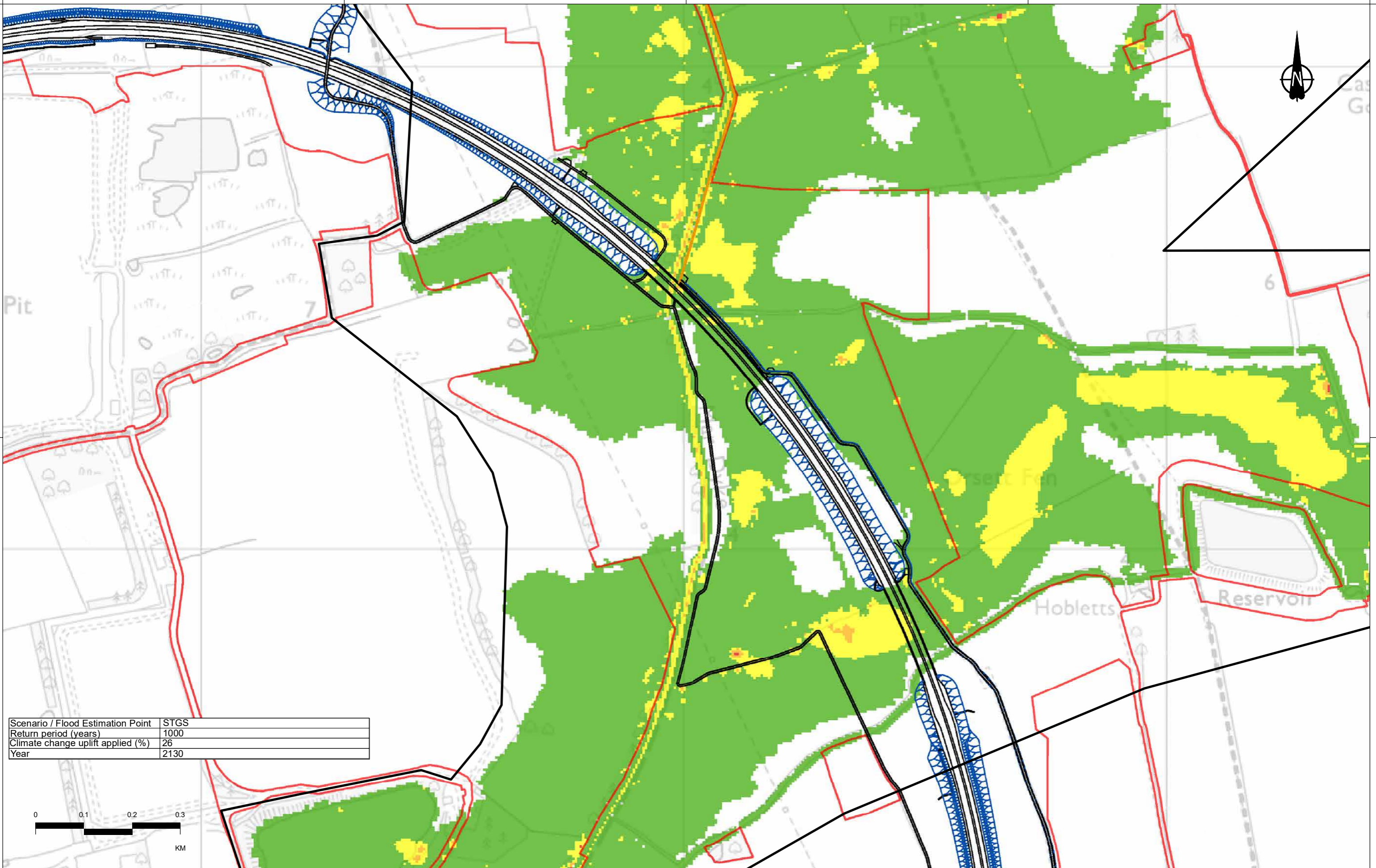
2D model extent	Proposed LTC alignment	Maximum flood velocity (m/s)
Order Limits	Earthworks	0 - 0.25
	NMU Routes	0.25 - 0.5
		0.5 - 1.0
		1.0 - 2
		> 2.0



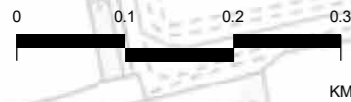
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Project
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Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 36 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00639				



Scenario / Flood Estimation Point	STGS
Return period (years)	1000
Climate change uplift applied (%)	26
Year	2130



P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

2D model extent
 — Proposed LTC alignment
 Maximum flood velocity (m/s)

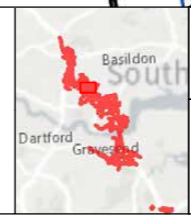
Order Limits
 — Alignment
 ■ 0 - 0.25

— Earthworks
 ■ 0.25 - 0.5

— NMU Routes
 ■ 0.5 - 1.0

■ 1.0 - 2

■ > 2.0

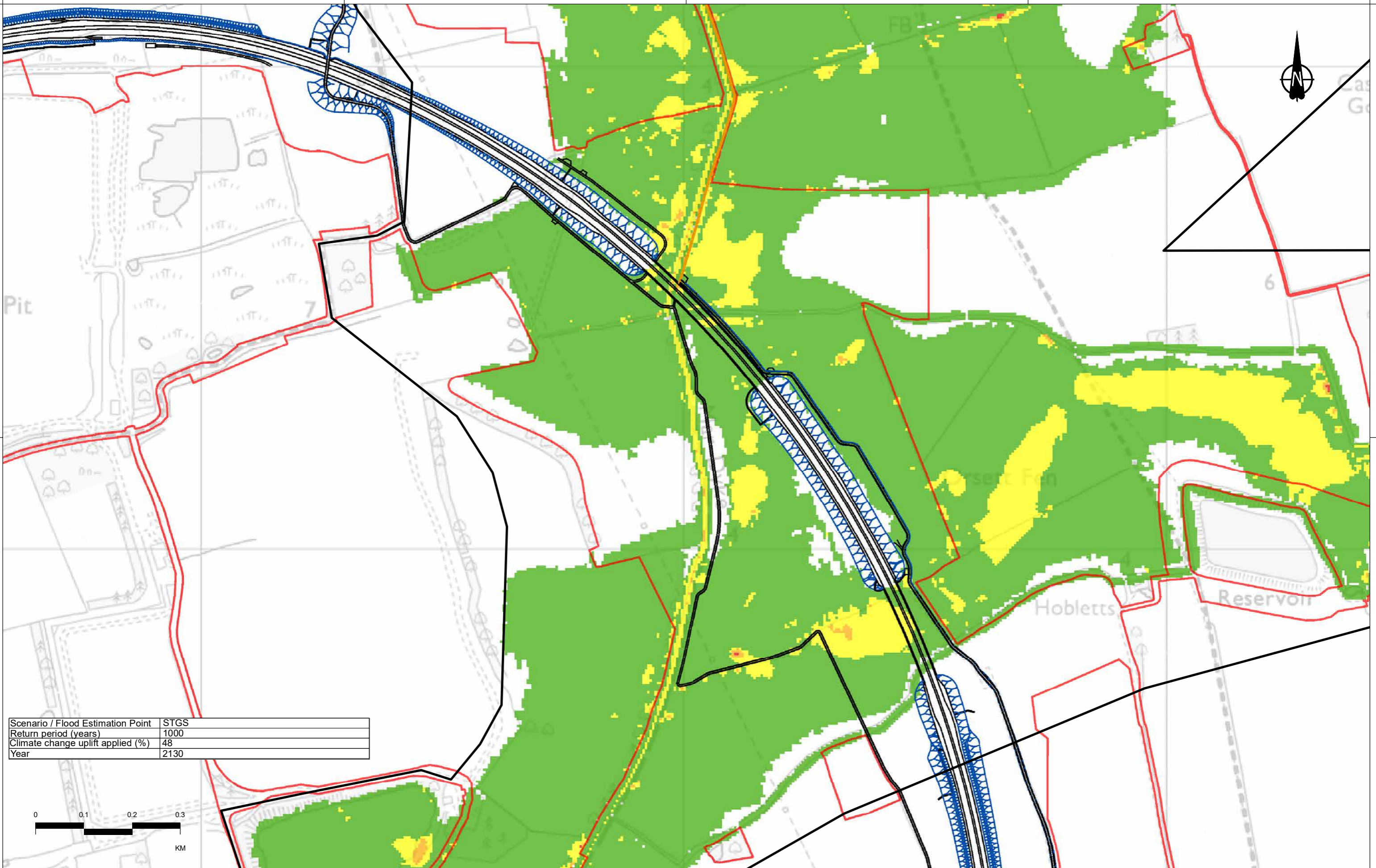


Client

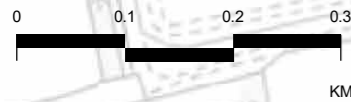
Project

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 37 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00640				

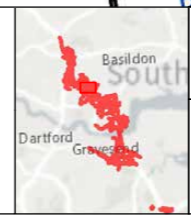


Scenario / Flood Estimation Point	STGS
Return period (years)	1000
Climate change uplift applied (%)	48
Year	2130



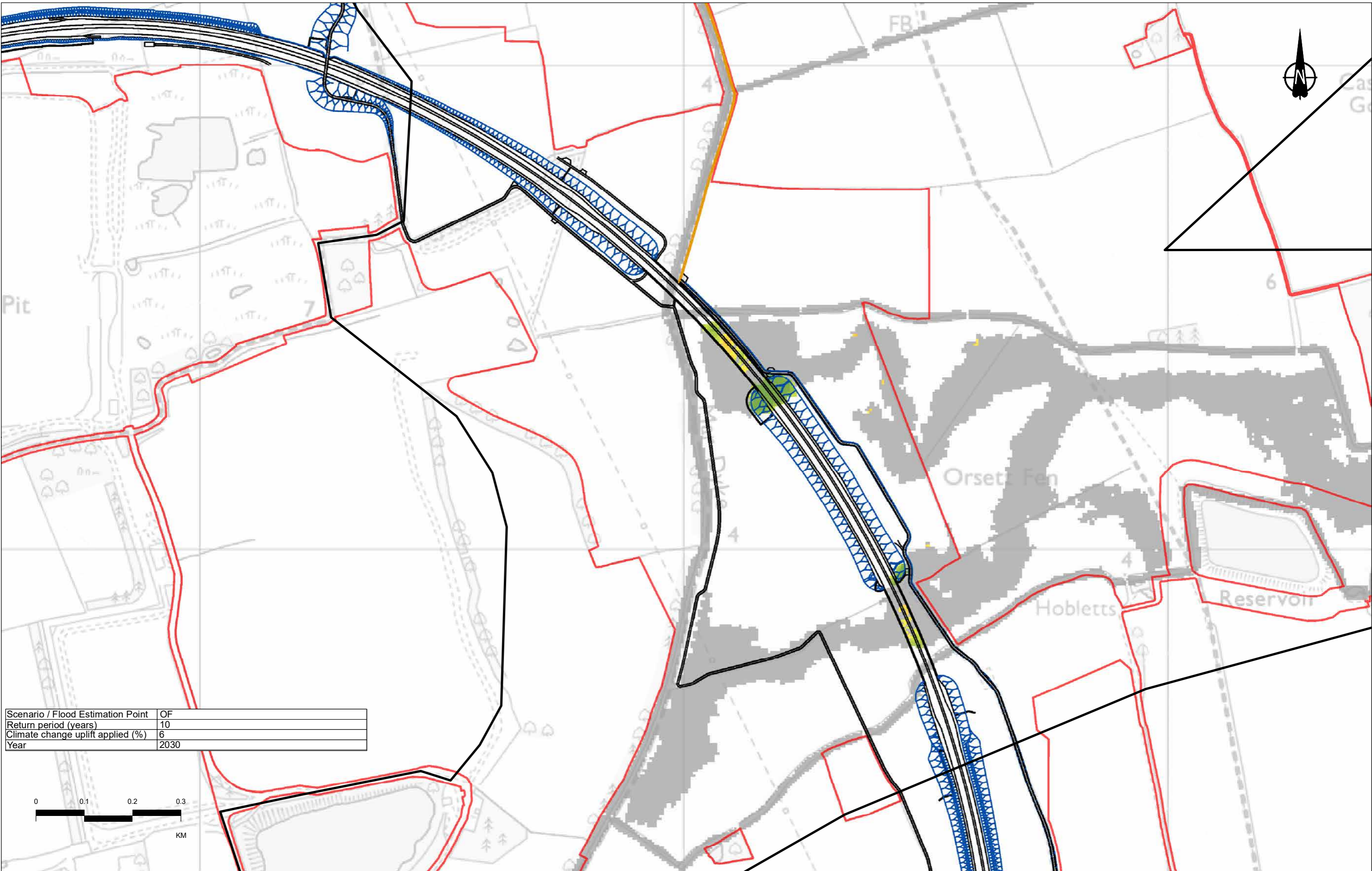
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd
P01	SB	10/10/2022	DCO Application	KK	RB	BF

Legend		Maximum flood velocity (m/s)
	2D model extent	
	Order Limits	
	Alignment	
	Earthworks	
	NMU Routes	

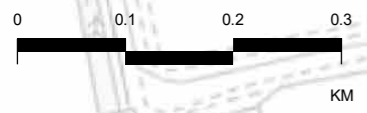


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Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 38 of 38				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00641				



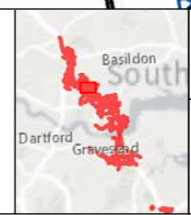
Scenario / Flood Estimation Point	OF
Return period (years)	10
Climate change uplift applied (%)	6
Year	2030



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

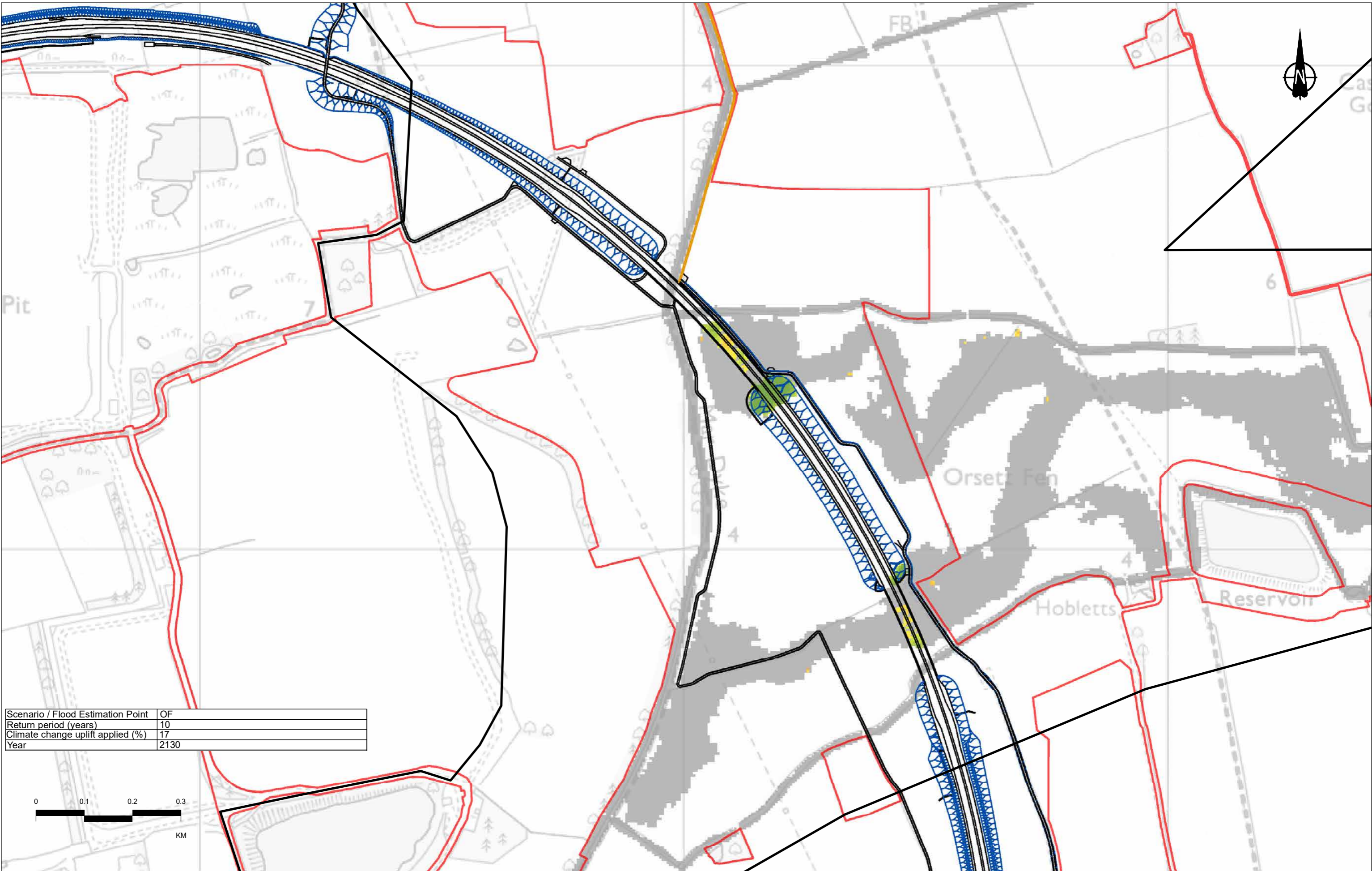
2D model extent	Proposed LTC alignment	Flood depth difference (m)	0.02 - 0.05
Order Limits	Earthworks	<math>< -1.0</math>	0.05 - 0.1
	NMU Routes	-1.0 - -0.5	0.1 - 0.2
		-0.5 - -0.2	0.2 - 0.5
		-0.2 - -0.1	0.5 - 1
		-0.01 - 0.01	> 1.0
		0.01 - 0.02	



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Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/6.3	A3	P01
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (without mitigation) minus Pre-development Sheet 1 of 7		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00642		

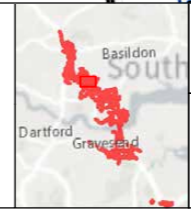


Scenario / Flood Estimation Point	OF
Return period (years)	10
Climate change uplift applied (%)	17
Year	2130

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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

Legend

2D model extent	Proposed LTC alignment	Flood depth difference (m)	-0.1 - -0.05	0.05 - 0.1
Order Limits	Earthworks	<math>< -1.0</math>	-0.05 - -0.02	0.1 - 0.2
	NMU Routes	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
		-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
		-0.2 - -0.1	0.01 - 0.02	> 1.0
			0.02 - 0.05	



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Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/6.3	A3	P01
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (without mitigation) minus Pre-development Sheet 2 of 7		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00643		

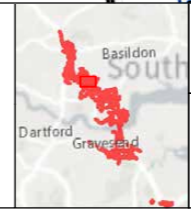


Scenario / Flood Estimation Point	OF
Return period (years)	25
Climate change uplift applied (%)	6
Year	2030

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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

2D model extent	Proposed LTC alignment	Flood depth difference (m)	-0.1 - -0.05	0.05 - 0.1
Order Limits	Earthworks	< -1.0	-0.05 - -0.02	0.1 - 0.2
	NMU Routes	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
		-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
		-0.2 - -0.1	0.01 - 0.02	> 1.0
			0.02 - 0.05	



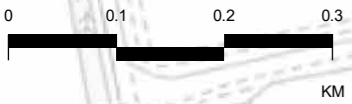
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Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/6.3	A3	P01
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (without mitigation) minus Pre-development Sheet 3 of 7		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00644		



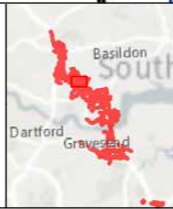
Scenario / Flood Estimation Point	OF
Return period (years)	25
Climate change uplift applied (%)	17
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

Legend

2D model extent	Proposed LTC alignment	Flood depth difference (m)	-0.1 - -0.05	0.05 - 0.1
Order Limits	Earthworks	<math>< -1.0</math>	-0.05 - -0.02	0.1 - 0.2
	NMU Routes	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
		-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
		-0.2 - -0.1	0.01 - 0.02	> 1.0
			0.02 - 0.05	



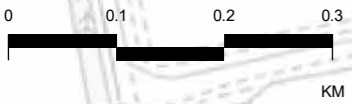
national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/6.3	A3	P01
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (without mitigation) minus Pre-development Sheet 4 of 7		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00645		



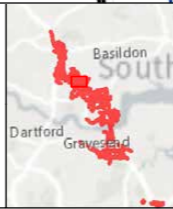
Scenario / Flood Estimation Point	OF
Return period (years)	100
Climate change uplift applied (%)	6
Year	2030



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

2D model extent	Proposed LTC alignment	Earthworks	NMU Routes	Flood depth difference (m)	< -1.0	-1.0 - -0.5	-0.5 - -0.2	-0.2 - -0.1	-0.1 - -0.05	-0.05 - -0.02	-0.02 - -0.01	0.01 - 0.02	0.02 - 0.05	0.05 - 0.1	0.1 - 0.2	0.2 - 0.5	0.5 - 1	> 1.0
-----------------	------------------------	------------	------------	-----------------------------------	--------	-------------	-------------	-------------	--------------	---------------	---------------	-------------	-------------	------------	-----------	-----------	---------	-------



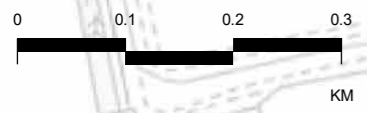
national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/6.3	A3	P01
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (without mitigation) minus Pre-development Sheet 5 of 7		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00646		



Scenario / Flood Estimation Point	OF
Return period (years)	100
Climate change uplift applied (%)	17
Year	2130

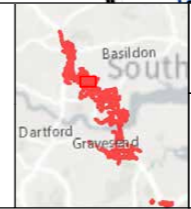


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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

Legend

2D model extent	Proposed LTC alignment	Flood depth difference (m)	0.05 - 0.1
Order Limits	Earthworks	< -1.0	0.1 - 0.2
	NMU Routes	-1.0 - -0.5	0.2 - 0.5
		-0.5 - -0.2	0.5 - 1
		-0.2 - -0.1	> 1.0
		-0.01 - 0.01	
		0.01 - 0.02	
		0.02 - 0.05	



Client

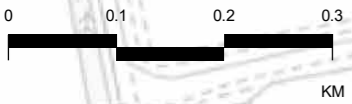
Project

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (without mitigation) minus Pre-development Sheet 6 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00647				



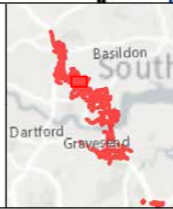
Scenario / Flood Estimation Point	OF
Return period (years)	100
Climate change uplift applied (%)	26
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

Legend

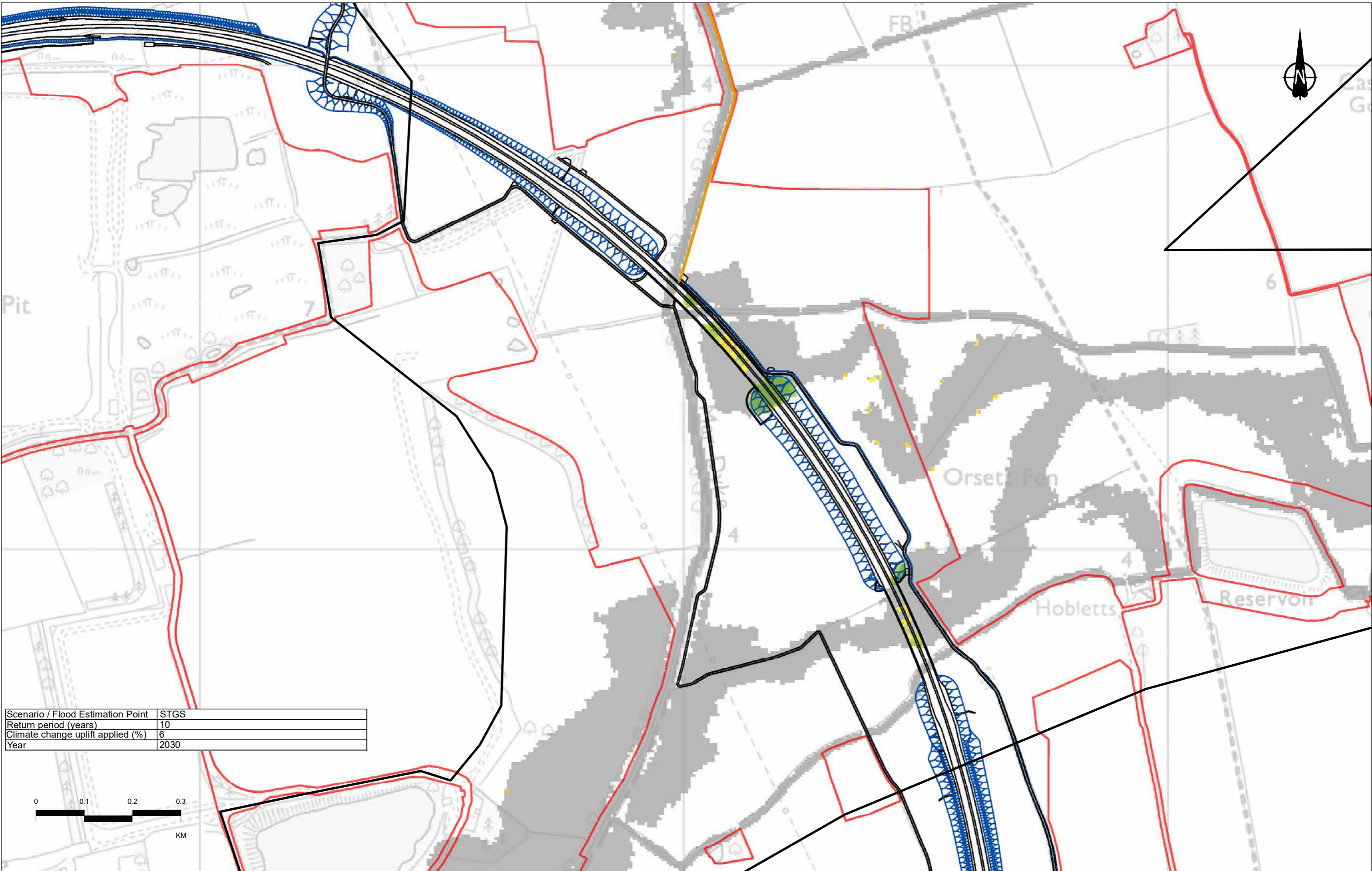
2D model extent	Proposed LTC alignment	Flood depth difference (m)	-0.1 - -0.05	0.05 - 0.1
Order Limits	Earthworks	<math>< -1.0</math>	-0.05 - -0.02	0.1 - 0.2
	NMU Routes	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
		-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
		-0.2 - -0.1	0.01 - 0.02	> 1.0
			0.02 - 0.05	



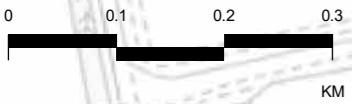
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Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/6.3	A3	P01
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (without mitigation) minus Pre-development Sheet 7 of 7		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00648		



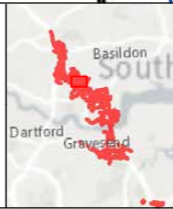
Scenario / Flood Estimation Point	STGS
Return period (years)	10
Climate change uplift applied (%)	6
Year	2030



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

2D model extent	Proposed LTC alignment	Flood depth difference (m)	-0.1 - -0.05	0.05 - 0.1
Order Limits	Earthworks	< -1.0	-0.05 - -0.02	0.1 - 0.2
	NMU Routes	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
		-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
		-0.2 - -0.1	0.01 - 0.02	> 1.0
			0.02 - 0.05	



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Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/6.3	A3	P01
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (without mitigation) minus Pre-development Sheet 1 of 7		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00649		

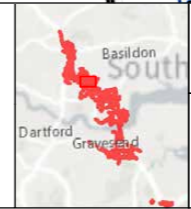


Scenario / Flood Estimation Point	STGS
Return period (years)	10
Climate change uplift applied (%)	17
Year	2130

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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

2D model extent	Proposed LTC alignment	Flood depth difference (m)	-0.1 - -0.05	0.05 - 0.1
Order Limits	Earthworks	< -1.0	-0.05 - -0.02	0.1 - 0.2
	NMU Routes	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
		-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
		-0.2 - -0.1	0.01 - 0.02	> 1.0
			0.02 - 0.05	



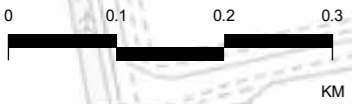
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Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/6.3	A3	P01
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (without mitigation) minus Pre-development Sheet 2 of 7		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00650		



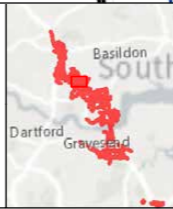
Scenario / Flood Estimation Point	STGS
Return period (years)	25
Climate change uplift applied (%)	6
Year	2030



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

2D model extent	Proposed LTC alignment	Flood depth difference (m)	-0.1 - -0.05	0.05 - 0.1
Order Limits	Earthworks	< -1.0	-0.05 - -0.02	0.1 - 0.2
	NMU Routes	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
		-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
		-0.2 - -0.1	0.01 - 0.02	> 1.0
			0.02 - 0.05	



Client:

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/6.3	A3	P01
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (without mitigation) minus Pre-development Sheet 3 of 7		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00651		

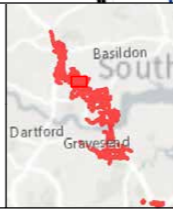


Scenario / Flood Estimation Point	STGS
Return period (years)	25
Climate change uplift applied (%)	17
Year	2130

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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

2D model extent	Proposed LTC alignment	Flood depth difference (m)	0.05 - 0.1
Order Limits	Earthworks	< -1.0	0.1 - 0.2
	NMU Routes	-1.0 - -0.5	0.2 - 0.5
		-0.5 - -0.2	0.5 - 1
		-0.2 - -0.1	> 1.0
		-0.01 - 0.01	
		0.01 - 0.02	
		0.02 - 0.05	



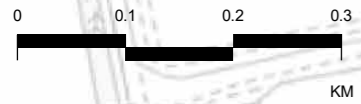
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/6.3	A3	P01
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (without mitigation) minus Pre-development Sheet 4 of 7		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00652		



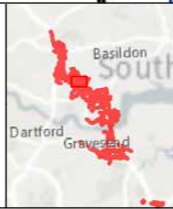
Scenario / Flood Estimation Point	STGS
Return period (years)	100
Climate change uplift applied (%)	6
Year	2030



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

Legend

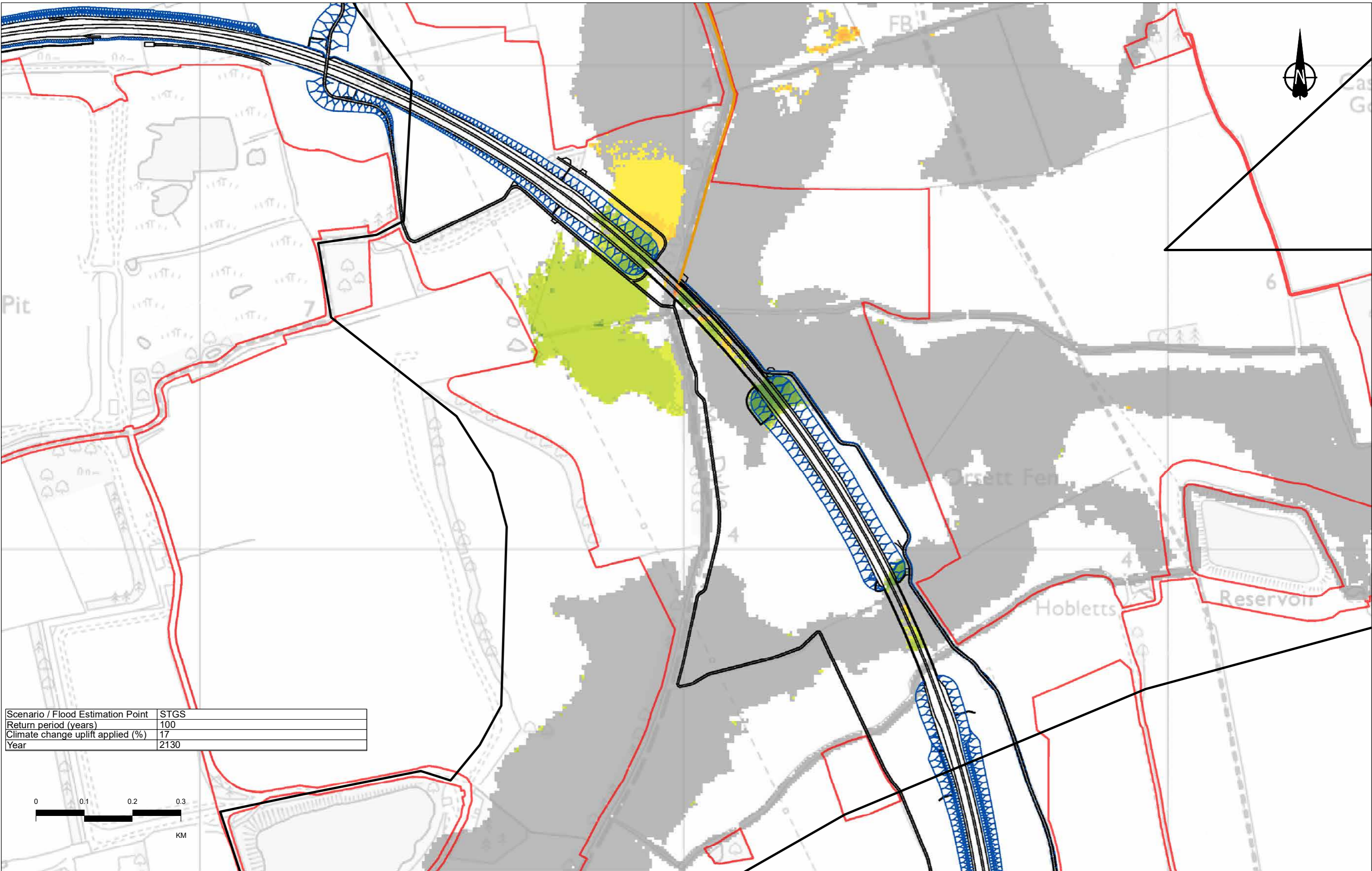
2D model extent	Proposed LTC alignment	Flood depth difference (m)	0.01 - 0.02	0.05 - 0.1
Order Limits	Earthworks	-0.05 - -0.02	0.1 - 0.2	0.02 - 0.05
	NMU Routes	-0.2 - -0.1	0.2 - 0.5	0.05 - 0.1
		-0.5 - -0.2	0.5 - 1	0.1 - 0.2
		-1.0 - -0.5	> 1.0	0.2 - 0.5
		-0.1 - -0.05		0.5 - 1
		-0.01 - 0.01		> 1.0



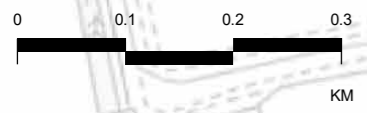
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/6.3	A3	P01
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (without mitigation) minus Pre-development Sheet 5 of 7		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00653		



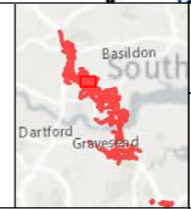
Scenario / Flood Estimation Point	STGS
Return period (years)	100
Climate change uplift applied (%)	17
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

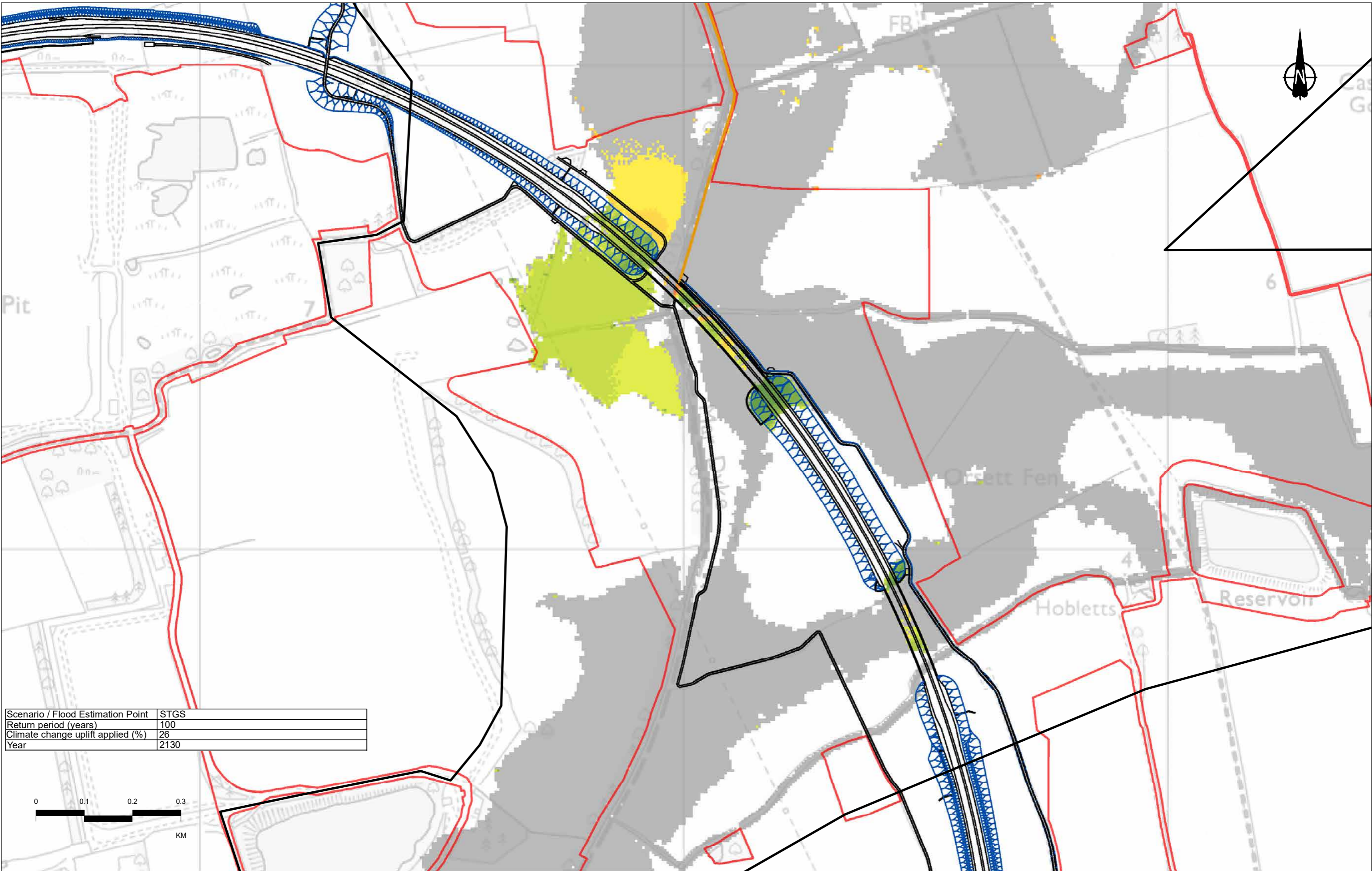
Legend		Flood depth difference (m)	
2D model extent	Proposed LTC alignment	< -1.0	0.05 - 0.1
Order Limits	Earthworks	-1.0 - -0.5	0.1 - 0.2
	NMU Routes	-0.5 - -0.2	0.2 - 0.5
		-0.2 - -0.1	0.5 - 1
		-0.01 - 0.01	> 1.0
		0.01 - 0.02	
		0.02 - 0.05	



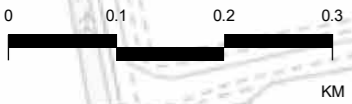
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (without mitigation) minus Pre-development Sheet 6 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00654				



Scenario / Flood Estimation Point	STGS
Return period (years)	100
Climate change uplift applied (%)	26
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Legend

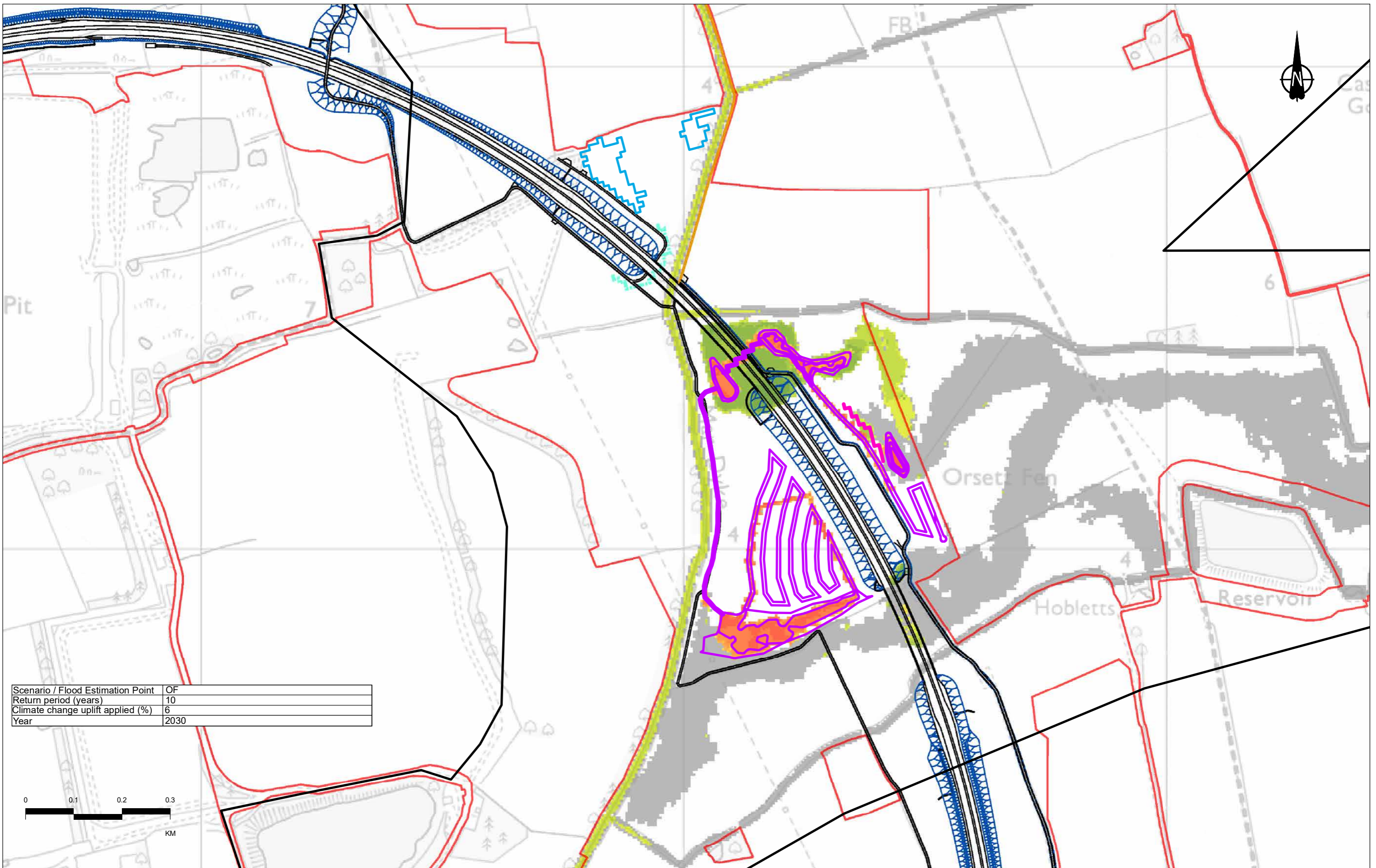
2D model extent	Proposed LTC alignment	Flood depth difference (m)	-0.1 - -0.05	0.05 - 0.1
Order Limits	Earthworks	< -1.0	-0.05 - -0.02	0.1 - 0.2
	NMU Routes	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
		-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
		-0.2 - -0.1	0.01 - 0.02	> 1.0
			0.02 - 0.05	



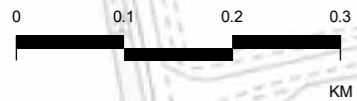
national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/6.3	A3	P01
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (without mitigation) minus Pre-development Sheet 7 of 7		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00655		



Scenario / Flood Estimation Point	OF
Return period (years)	10
Climate change uplift applied (%)	6
Year	2030



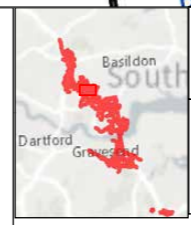
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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

2D model extent	Alignment	Flood depth difference (m)	0.02 - 0.05	Raised bund alignment
Order Limits	Earthworks	< -1.0	0.05 - 0.1	Compensation storage areas
	NMU Routes	-1.0 - -0.5	0.1 - 0.2	Proposed water vole habitat creation
		-0.5 - -0.2	0.2 - 0.5	Flow path
		-0.2 - -0.1	0.5 - 1	
			> 1.0	

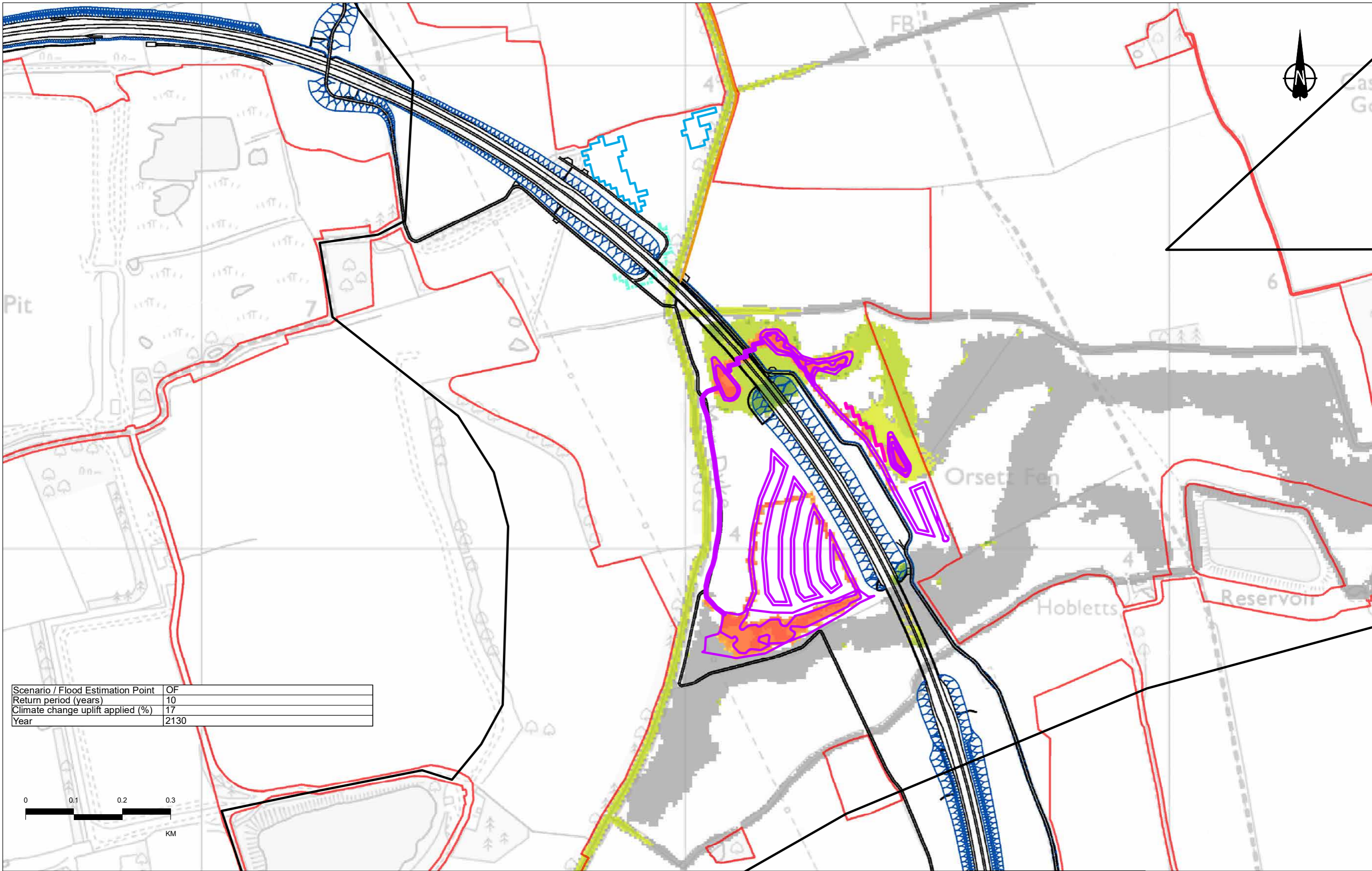
Mitigation measures



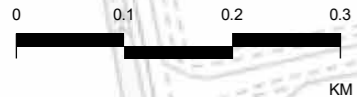
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (with mitigation) minus Pre-development Sheet 1 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00656				



Scenario / Flood Estimation Point	OF
Return period (years)	10
Climate change uplift applied (%)	17
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

2D model extent	Alignment	Flood depth difference (m)	0.02 - 0.05	Raised bund alignment
Order Limits	Earthworks	< -1.0	0.05 - 0.1	Compensation storage areas
	NMU Routes	-1.0 - -0.5	0.1 - 0.2	Proposed water vole habitat creation
		-0.5 - -0.2	0.2 - 0.5	Flow path
		-0.2 - -0.1	0.5 - 1	
			> 1.0	

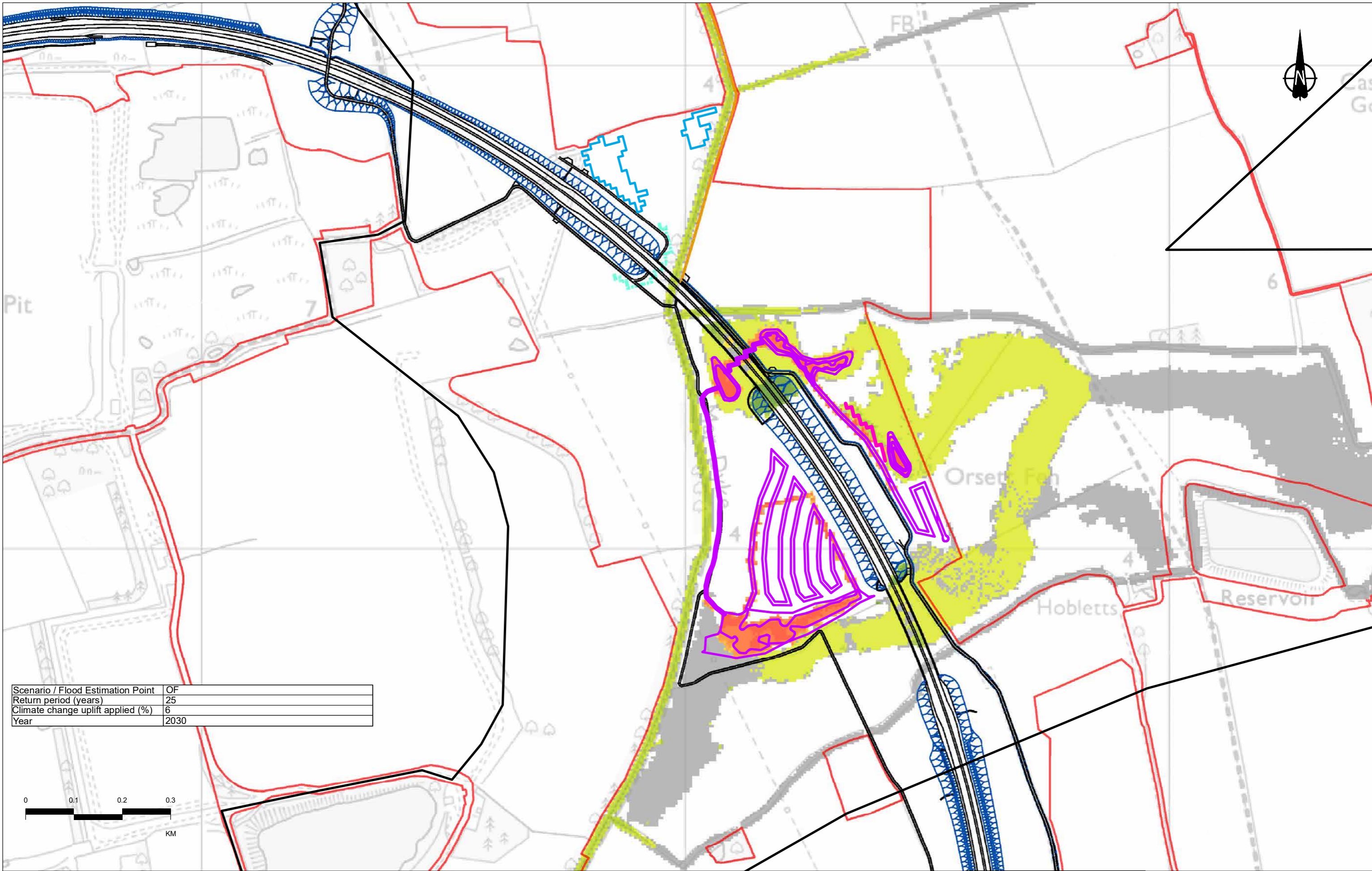
Mitigation measures



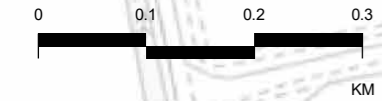
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (with mitigation) minus Pre-development Sheet 2 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00657				



Scenario / Flood Estimation Point	OF
Return period (years)	25
Climate change uplift applied (%)	6
Year	2030

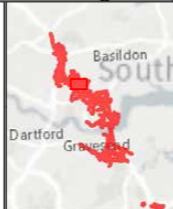


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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

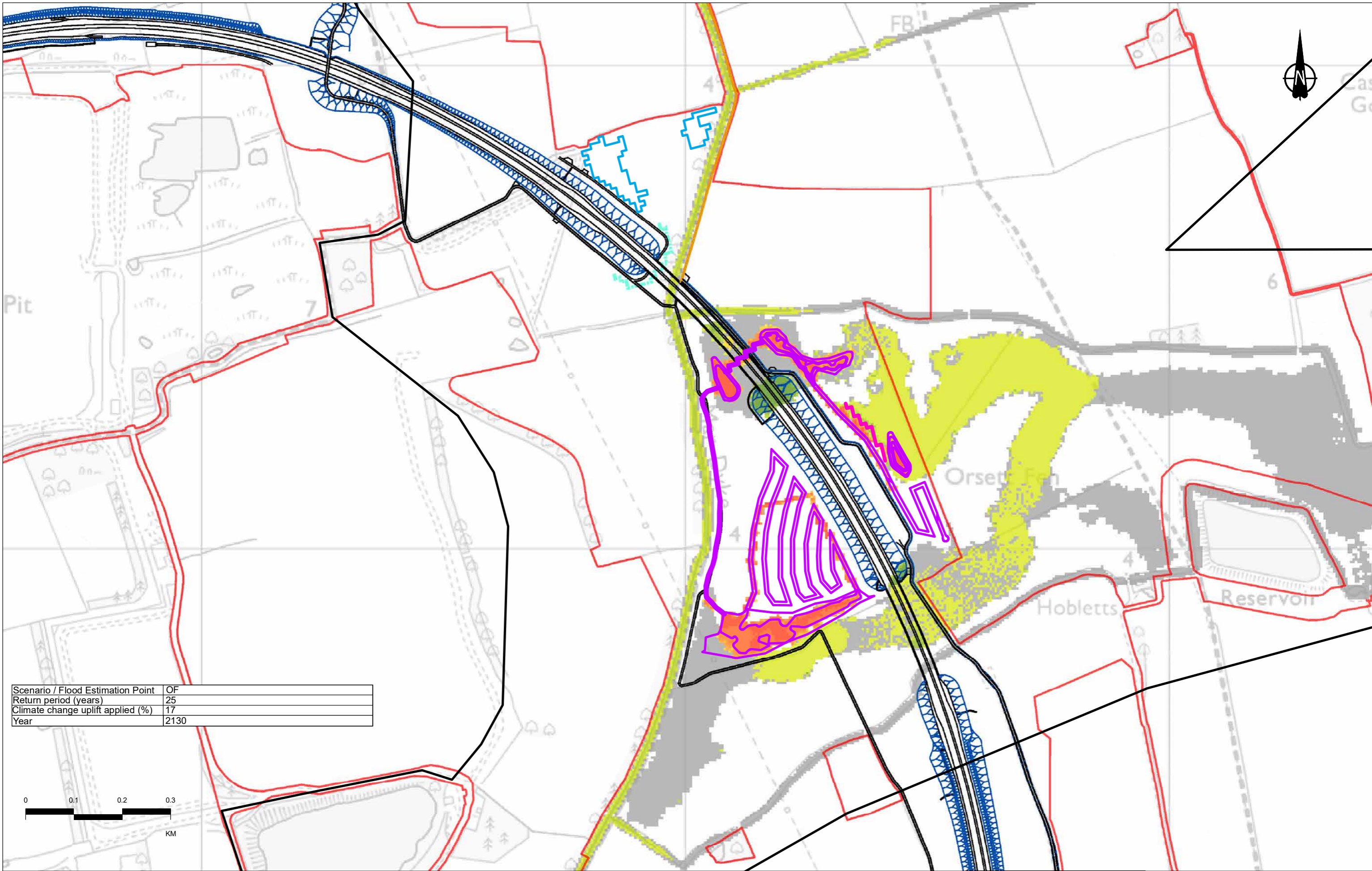
2D model extent	Proposed LTC alignment	Flood depth difference (m)	0.02 - 0.05	0.05 - 0.1	Mitigation measures
Order Limits	Earthworks	<math>< -1.0</math>	-0.05 - -0.02	0.1 - 0.2	Raised bund alignment
	NMU Routes	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5	Compensation storage areas
		-0.5 - -0.2	-0.01 - 0.01	0.5 - 1	Proposed water vole habitat creation
		-0.2 - -0.1	0.01 - 0.02	> 1.0	Flow path



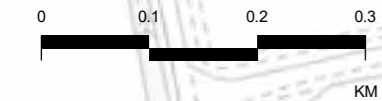
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (with mitigation) minus Pre-development Sheet 3 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00658				



Scenario / Flood Estimation Point	OF
Return period (years)	25
Climate change uplift applied (%)	17
Year	2130

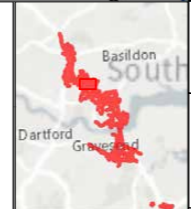


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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

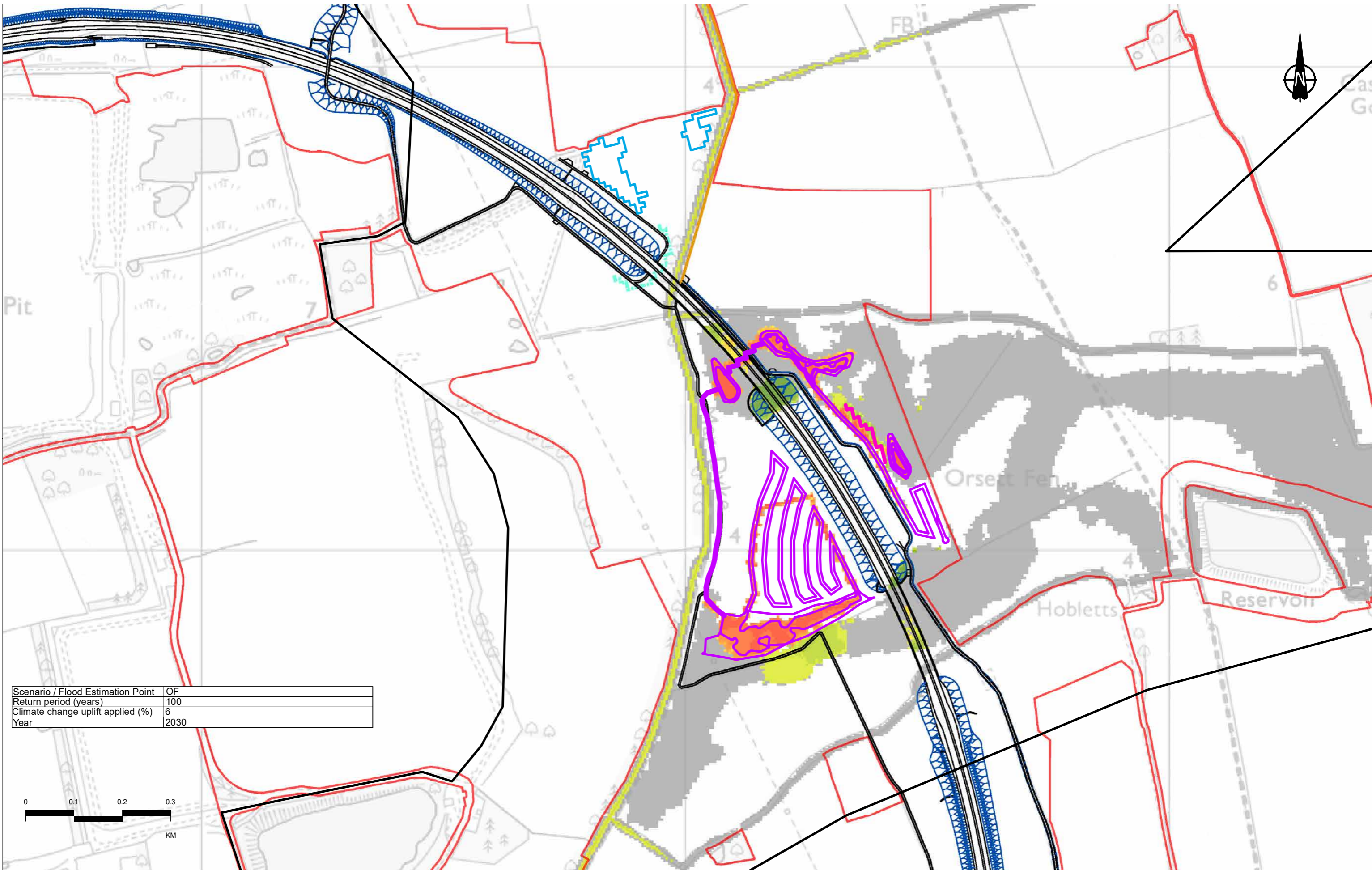
2D model extent	Alignment	Flood depth difference (m) < -1.0	0.02 - 0.05	Mitigation measures
Order Limits	Earthworks	-1.0 - -0.5	0.05 - 0.1	
	NMU Routes	-0.5 - -0.2	0.1 - 0.2	
		-0.2 - -0.1	0.2 - 0.5	
		-0.01 - 0.01	0.5 - 1	
		0.01 - 0.02	> 1.0	
			Raised bund alignment	
			Compensation storage areas	
			Proposed water vole habitat creation	
			Flow path	



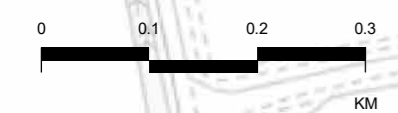
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (with mitigation) minus Pre-development Sheet 4 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00659				



Scenario / Flood Estimation Point	OF
Return period (years)	100
Climate change uplift applied (%)	6
Year	2030

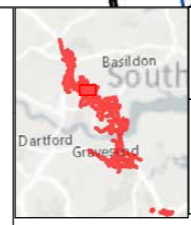


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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

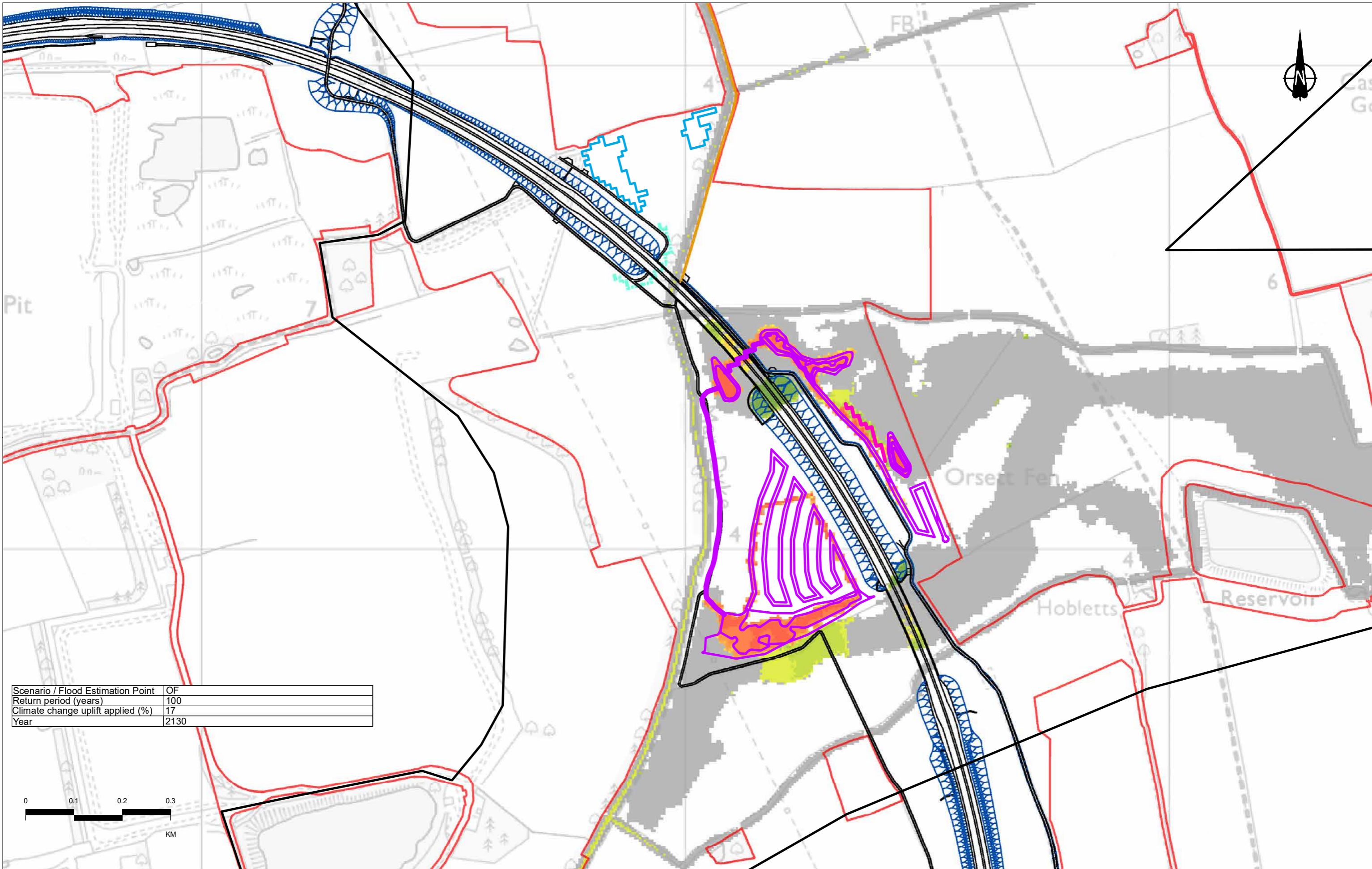
2D model extent	Alignment	Flood depth difference (m)	0.02 - 0.05	Raised bund alignment
Order Limits	Earthworks	< -1.0	0.05 - 0.1	Compensation storage areas
	NMU Routes	-1.0 - -0.5	0.1 - 0.2	Proposed water vole habitat creation
		-0.5 - -0.2	0.2 - 0.5	Flow path
		-0.2 - -0.1	0.01 - 0.02	
			0.5 - 1	
			> 1.0	



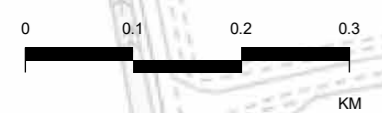
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (with mitigation) minus Pre-development Sheet 5 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00660				



Scenario / Flood Estimation Point	OF
Return period (years)	100
Climate change uplift applied (%)	17
Year	2130

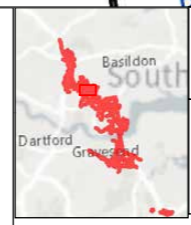


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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

Legend

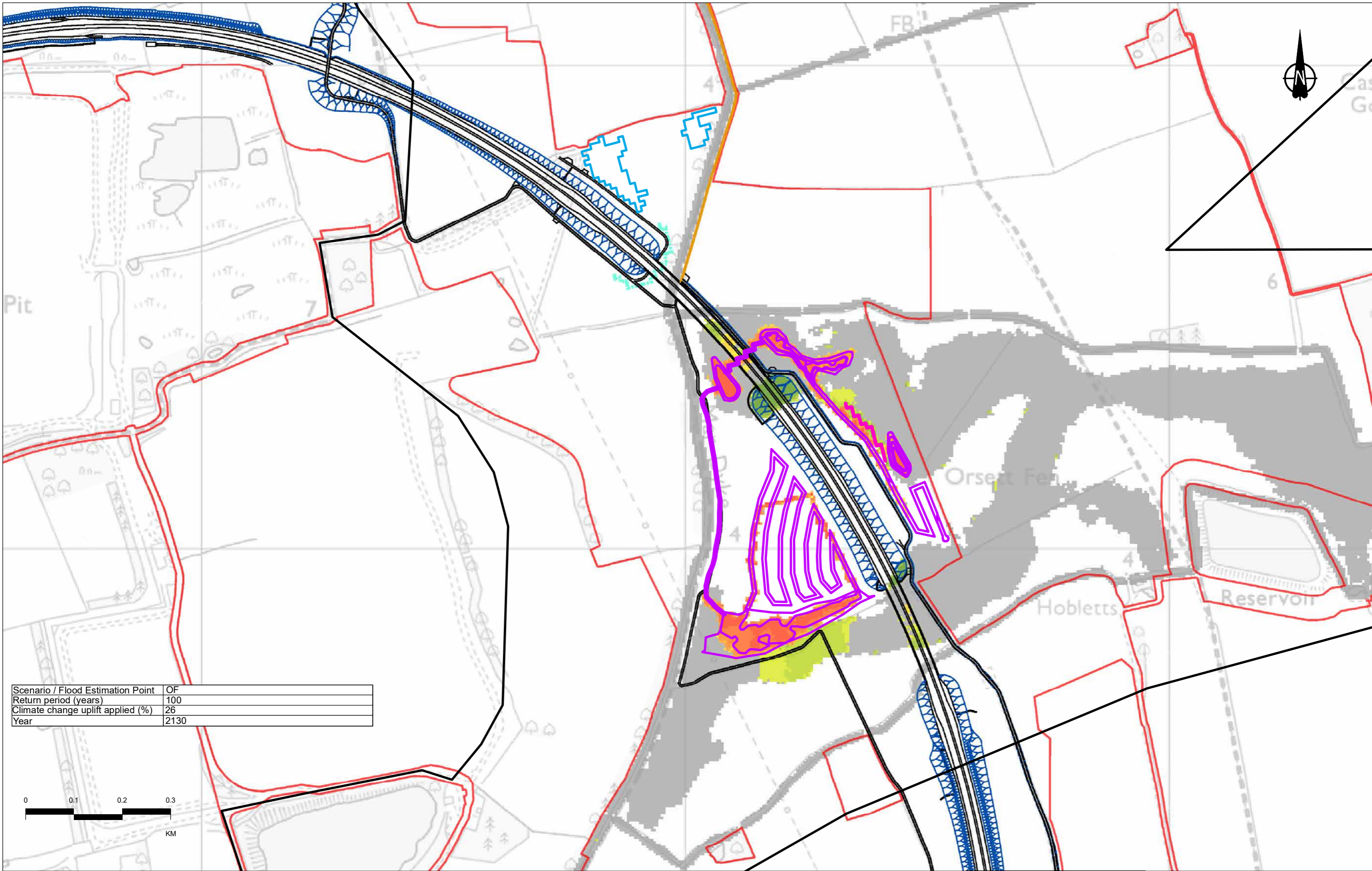
2D model extent	Proposed LTC alignment	Flood depth difference (m)	-0.1 - -0.05	0.02 - 0.05	Mitigation measures	
Order Limits	Earthworks	< -1.0	-0.05 - -0.02	0.05 - 0.1		Raised bund alignment
	NMU Routes	-1.0 - -0.5	-0.02 - -0.01	0.1 - 0.2		Compensation storage areas
		-0.5 - -0.2	-0.01 - 0.01	0.2 - 0.5		Proposed water vole habitat creation
		-0.2 - -0.1	0.01 - 0.02	0.5 - 1		Flow path
				> 1.0		



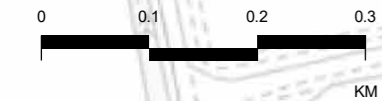
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (with mitigation) minus Pre-development Sheet 6 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00661				



Scenario / Flood Estimation Point	OF
Return period (years)	100
Climate change uplift applied (%)	26
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

2D model extent	Alignment	Flood depth difference (m)	0.02 - 0.05	Raised bund alignment
Order Limits	Earthworks	< -1.0	0.05 - 0.1	Compensation storage areas
	NMU Routes	-1.0 - -0.5	0.1 - 0.2	Proposed water vole habitat creation
		-0.5 - -0.2	0.2 - 0.5	Flow path
		-0.2 - -0.1	0.5 - 1	
			> 1.0	

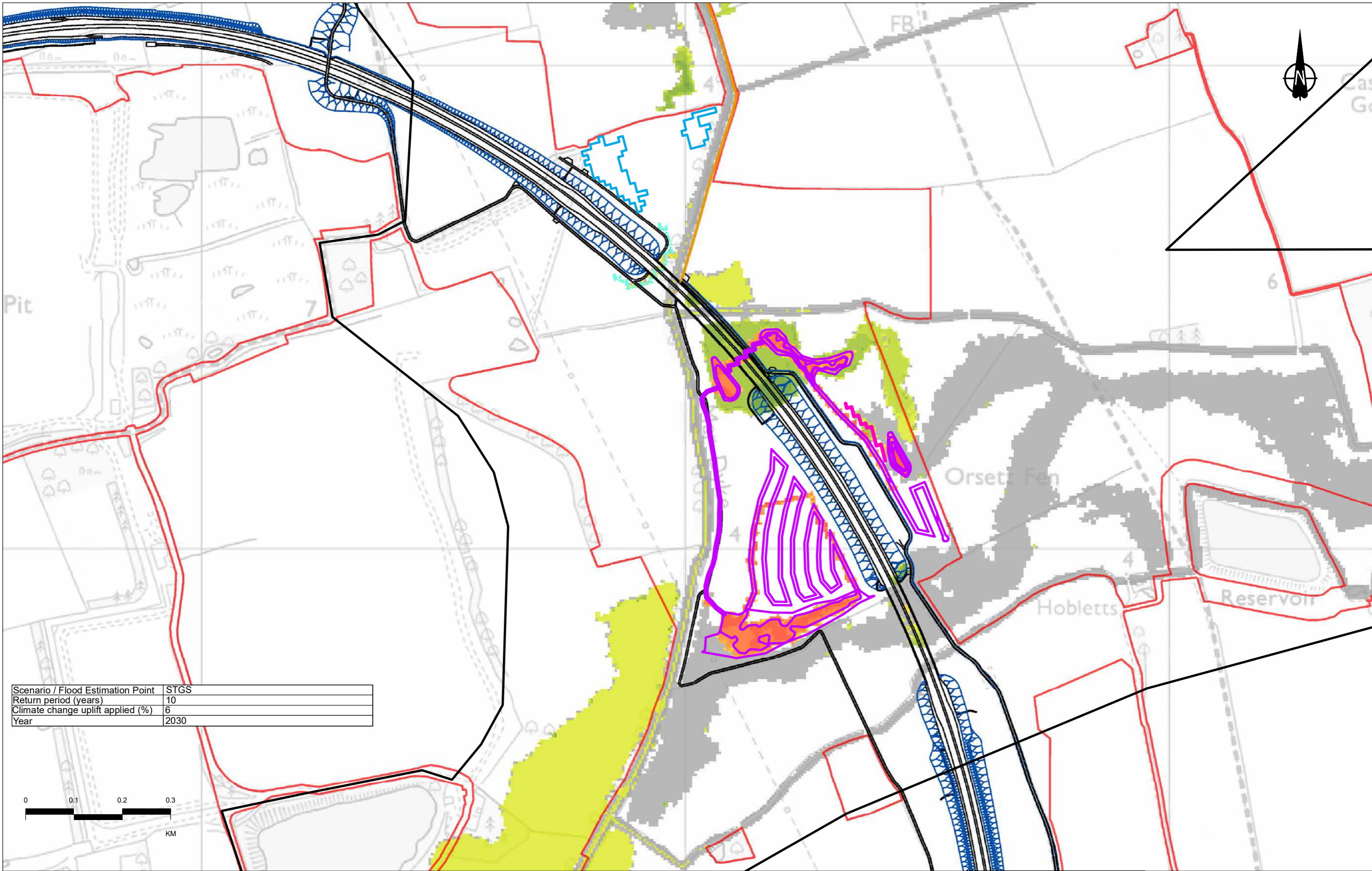
Mitigation measures



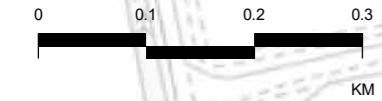
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (with mitigation) minus Pre-development Sheet 7 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00662				



Scenario / Flood Estimation Point	STGS
Return period (years)	10
Climate change uplift applied (%)	6
Year	2030

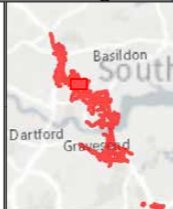


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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

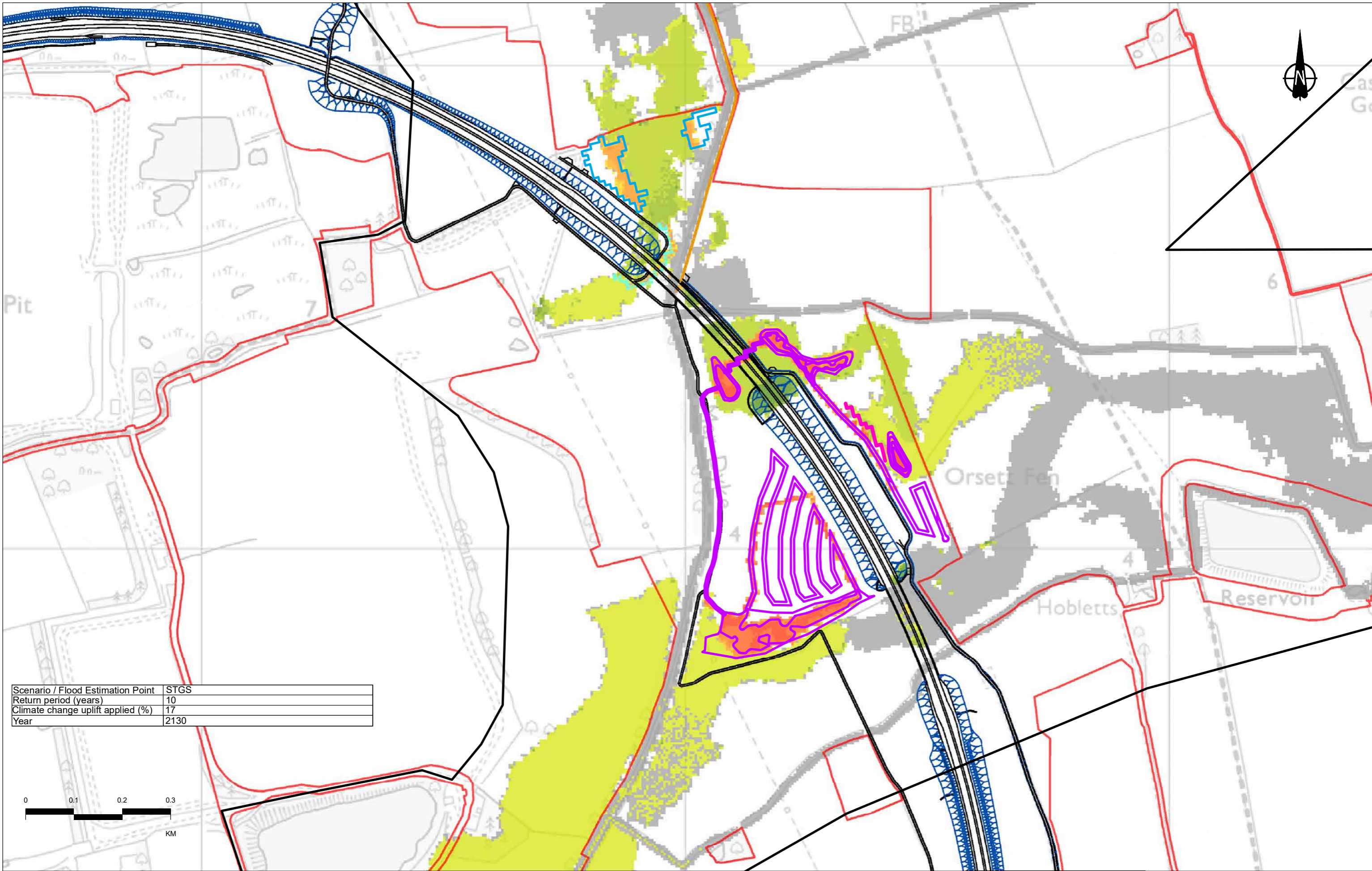
2D model extent	Proposed LTC alignment	Flood depth difference (m)	-0.1 - -0.05	0.02 - 0.05	Mitigation measures	
Order Limits	Earthworks	< -1.0	-0.05 - -0.02	0.05 - 0.1		Raised bund alignment
	NMU Routes	-1.0 - -0.5	-0.02 - -0.01	0.1 - 0.2		Compensation storage areas
		-0.5 - -0.2	-0.01 - 0.01	0.2 - 0.5		Proposed water vole habitat creation
		-0.2 - -0.1	0.01 - 0.02	0.5 - 1		Flow path
				> 1.0		



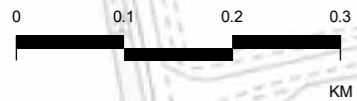
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (with mitigation) minus Pre-development Sheet 1 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00663				



Scenario / Flood Estimation Point	STGS
Return period (years)	10
Climate change uplift applied (%)	17
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

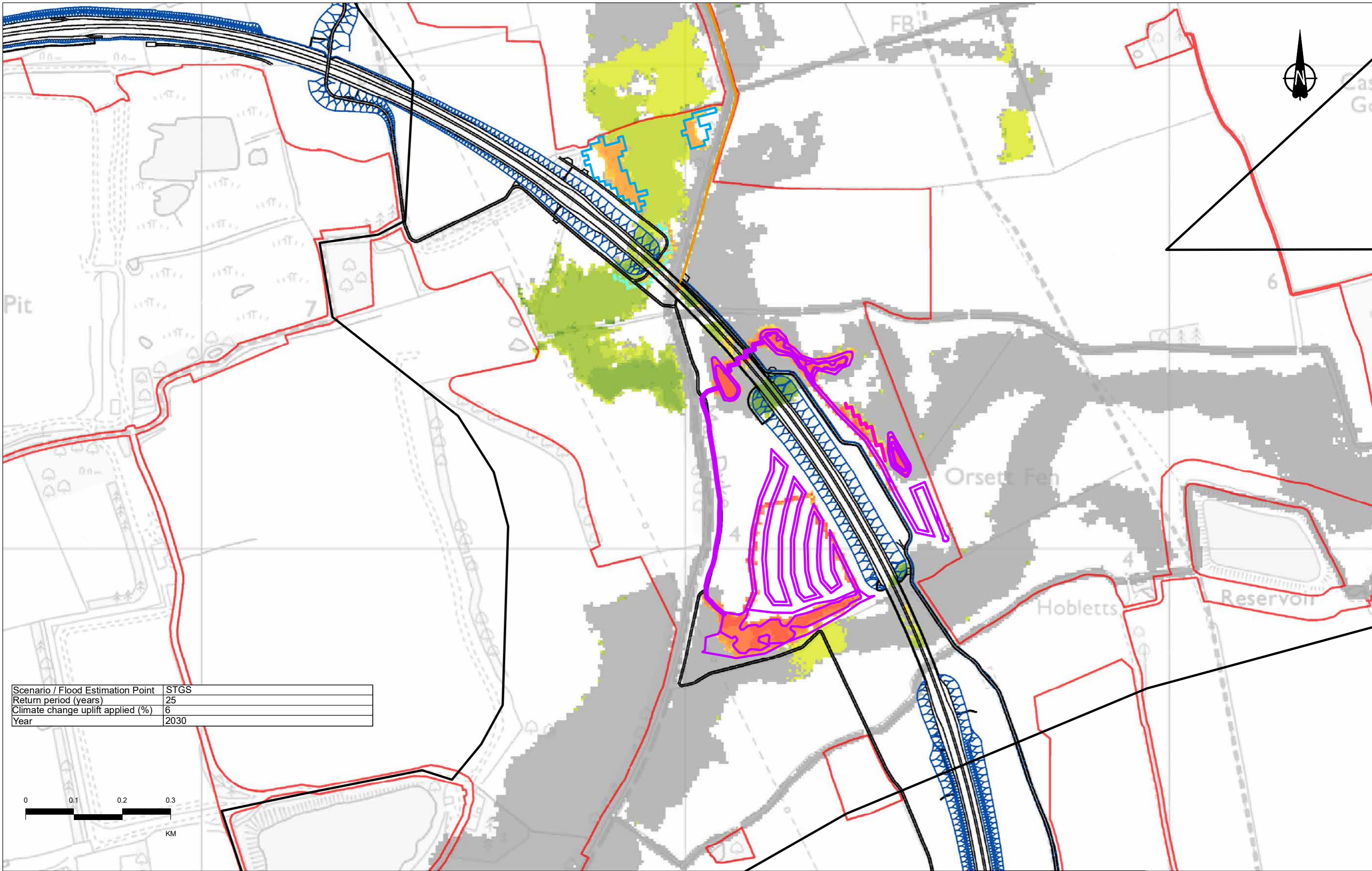
2D model extent	Alignment	Flood depth difference (m) < -1.0	0.02 - 0.05	Mitigation measures
Order Limits	Earthworks	-1.0 - -0.5	0.05 - 0.1	
	NMU Routes	-0.5 - -0.2	0.1 - 0.2	
		-0.2 - -0.1	0.2 - 0.5	
		-0.01 - 0.01	0.5 - 1	
		0.01 - 0.02	> 1.0	
			Raised bund alignment	
			Compensation storage areas	
			Proposed water vole habitat creation	
			Flow path	



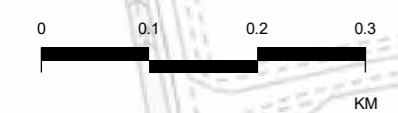
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (with mitigation) minus Pre-development Sheet 2 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00664				



Scenario / Flood Estimation Point	STGS
Return period (years)	25
Climate change uplift applied (%)	6
Year	2030

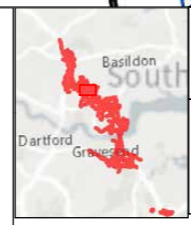


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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

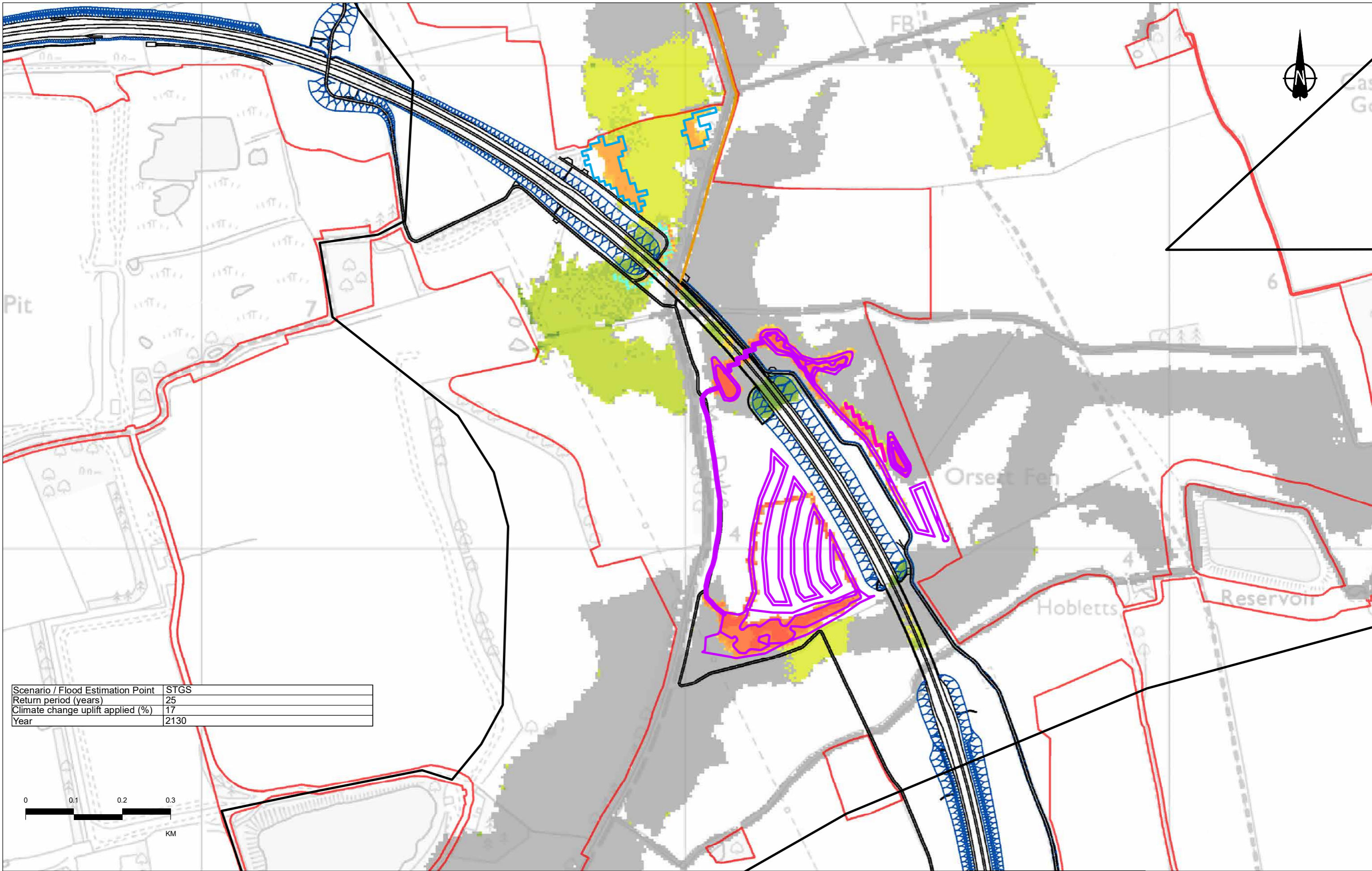
2D model extent	Proposed LTC alignment	Flood depth difference (m)	0.02 - 0.05	Raised bund alignment
Order Limits	Earthworks	< -1.0	0.05 - 0.1	Compensation storage areas
	NMU Routes	-1.0 - -0.5	0.1 - 0.2	Proposed water vole habitat creation
		-0.5 - -0.2	0.2 - 0.5	Flow path
		-0.2 - -0.1	0.5 - 1	
			> 1.0	



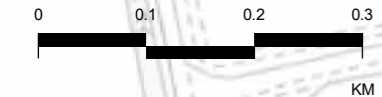
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (with mitigation) minus Pre-development Sheet 3 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00665				



Scenario / Flood Estimation Point	STGS
Return period (years)	25
Climate change uplift applied (%)	17
Year	2130



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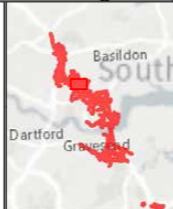
P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

2D model extent	Alignment	Flood depth difference (m) <math>< -1.0</math>	0.02 - 0.05	Mitigation measures
Order Limits	Earthworks	-1.0 - -0.5	0.05 - 0.1	
	NMU Routes	-0.5 - -0.2	0.1 - 0.2	
		-0.2 - -0.1	0.2 - 0.5	
		-0.01 - 0.01	0.5 - 1	
		0.01 - 0.02	> 1.0	

Mitigation measures

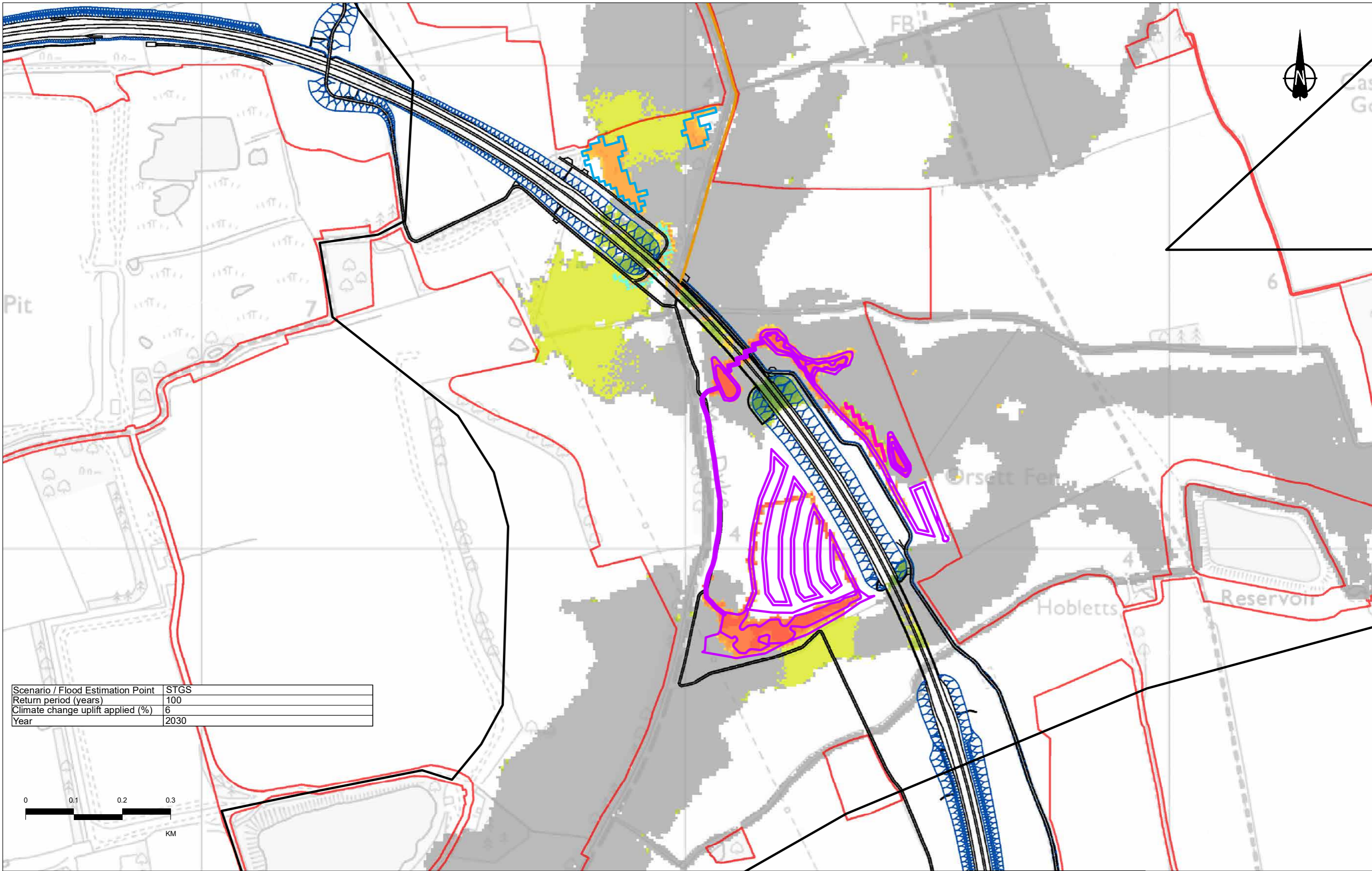
- Raised bund alignment
- Compensation storage areas
- Proposed water vole habitat creation
- Flow path



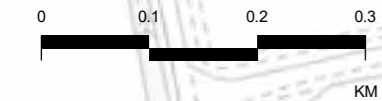
Client:

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (with mitigation) minus Pre-development Sheet 4 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00666				



Scenario / Flood Estimation Point	STGS
Return period (years)	100
Climate change uplift applied (%)	6
Year	2030



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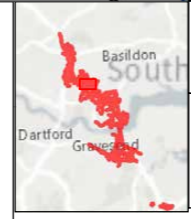
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	10/10/2022	DCO Application	KK	RB	BF

Legend

2D model extent	Proposed LTC alignment	Flood depth difference (m)	-0.1 - -0.05	0.02 - 0.05	Mitigation measures
Order Limits	Alignment	< -1.0	-0.05 - -0.02	0.05 - 0.1	
	Earthworks	-1.0 - -0.5	-0.02 - -0.01	0.1 - 0.2	
	NMU Routes	-0.5 - -0.2	-0.01 - 0.01	0.2 - 0.5	
		-0.2 - -0.1	0.01 - 0.02	0.5 - 1	
			> 1.0	> 1.0	

Mitigation measures

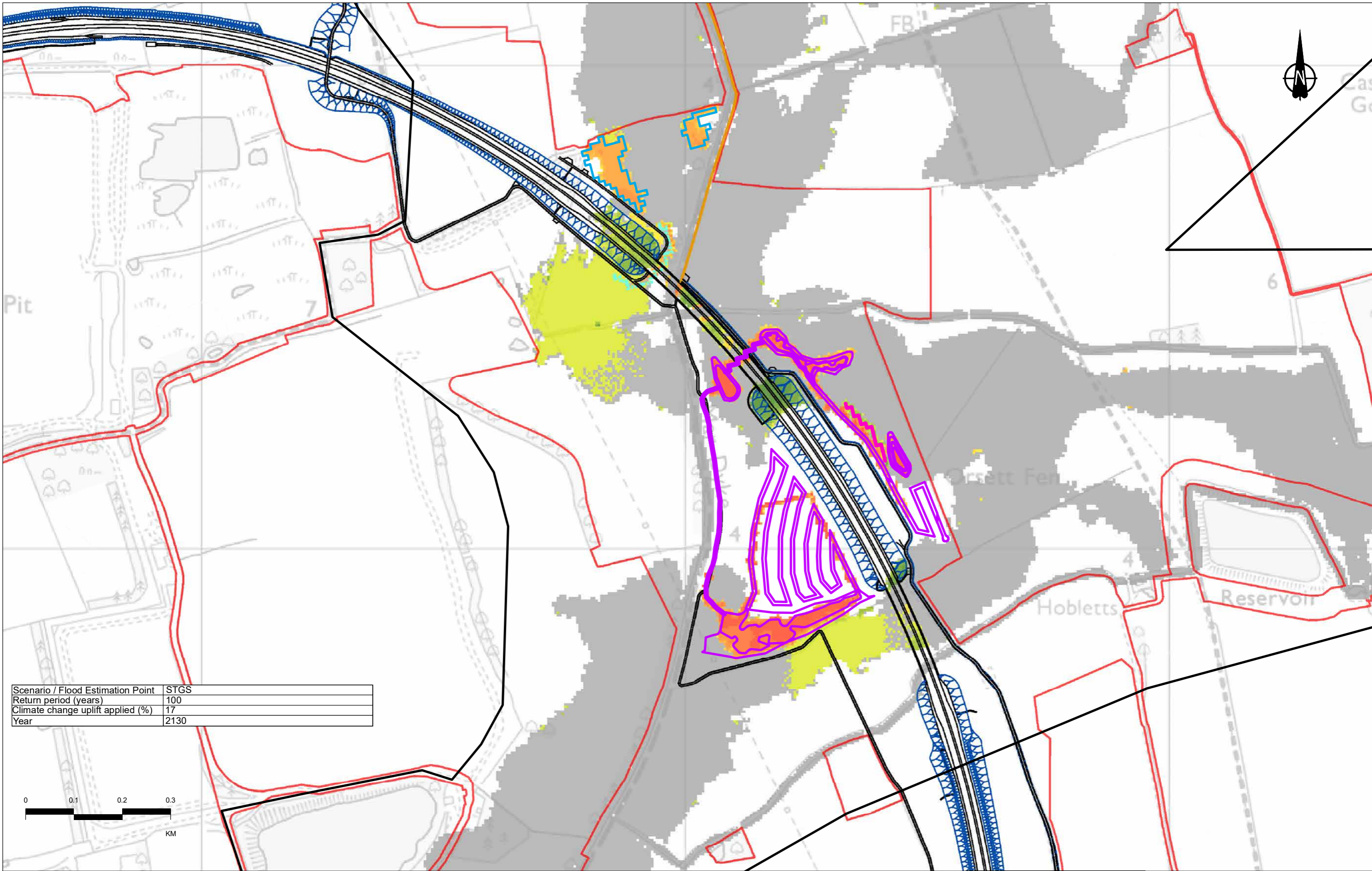
- Raised bund alignment
- Compensation storage areas
- Proposed water vole habitat creation
- Flow path



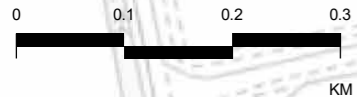
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (with mitigation) minus Pre-development Sheet 5 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00667				



Scenario / Flood Estimation Point	STGS
Return period (years)	100
Climate change uplift applied (%)	17
Year	2130

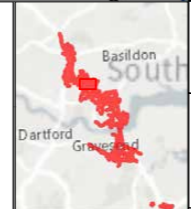


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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

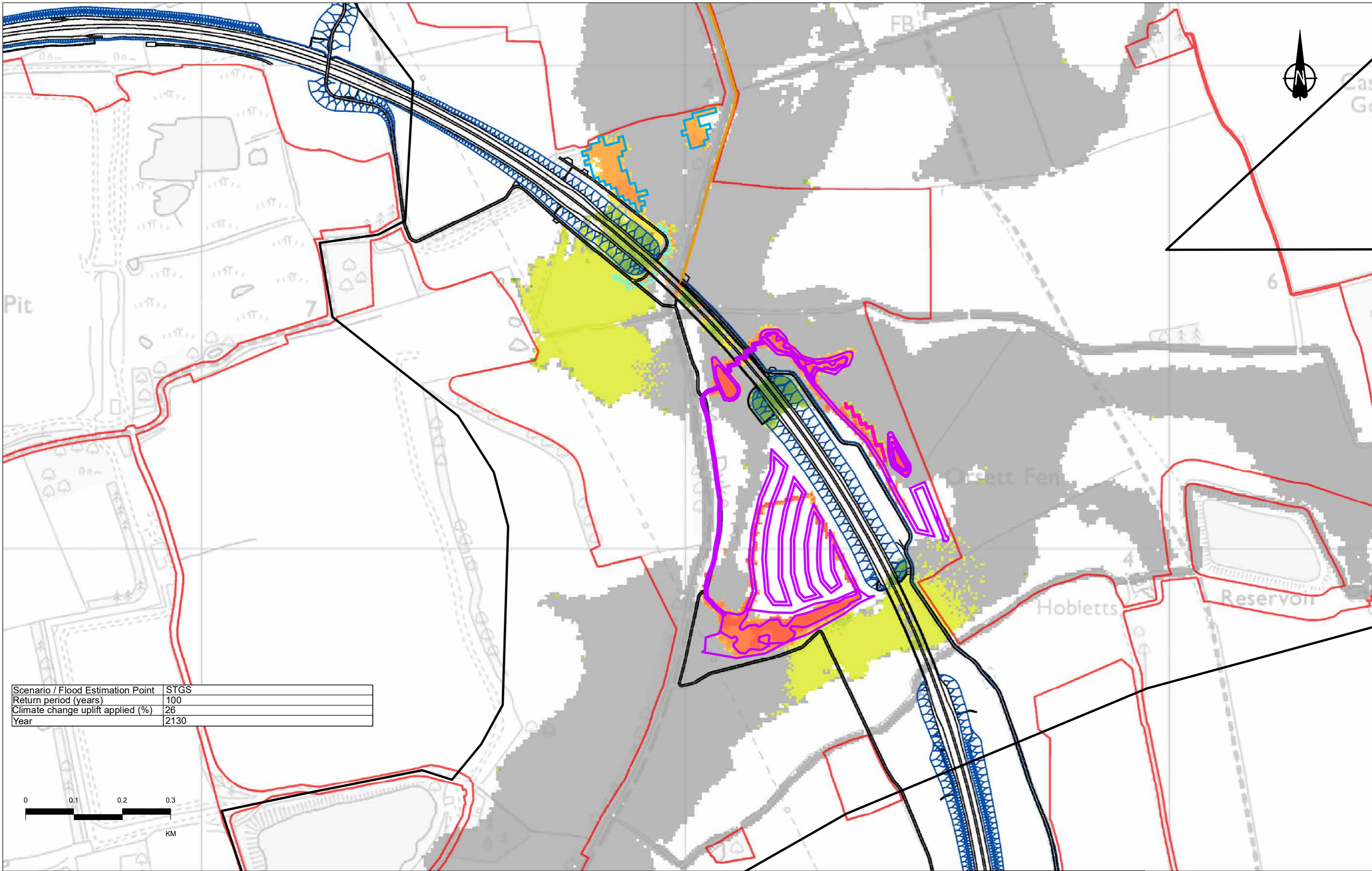
Legend

- 2D model extent
- Order Limits
- Alignment
- Earthworks
- NMU Routes
- < -1.0
- 1.0 - -0.5
- 0.5 - -0.2
- 0.2 - -0.1
- 0.1 - -0.05
- 0.05 - -0.02
- 0.02 - -0.01
- 0.01 - 0.01
- 0.01 - 0.02
- 0.02 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- 0.2 - 0.5
- 0.5 - 1
- > 1.0
- Raised bund alignment
- Compensation storage areas
- Proposed water vole habitat creation
- Flow path

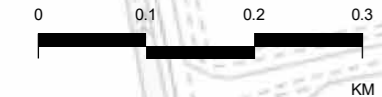


LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (with mitigation) minus Pre-development Sheet 6 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00668				



Scenario / Flood Estimation Point	STGS
Return period (years)	100
Climate change uplift applied (%)	26
Year	2130



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P01	SB	10/10/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

2D model extent	Proposed LTC alignment	Flood depth difference (m)	0.02 - 0.05	Raised bund alignment
Order Limits	Earthworks	<math>< -1.0</math>	0.05 - 0.1	Compensation storage areas
	NMU Routes	$-1.0 - -0.5$	0.1 - 0.2	Proposed water vole habitat creation
		$-0.5 - -0.2$	0.2 - 0.5	Flow path
		$-0.2 - -0.1$	0.5 - 1	
		$-0.1 - -0.05$	> 1.0	
		$-0.05 - -0.02$		
		$-0.02 - -0.01$		
		$-0.01 - 0.01$		



Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing title	FRA - Mardyke Modelling Results Difference in maximum flood depth Post- (with mitigation) minus Pre-development Sheet 7 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-00669				

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