

# **A12 Chelmsford to A120 widening scheme TR010060**

## **6.3 ENVIRONMENTAL STATEMENT APPENDIX 14.5 FLOOD RISK ASSESSMENT – ANNEX D BASELINE SURFACE WATER FLOOD RISK**

APFP Regulation 5(2)(e)

Planning Act 2008

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

Volume 6

August 2022

## Infrastructure Planning

### Planning Act 2008

## **A12 Chelmsford to A120 widening scheme**

### Development Consent Order 202[]

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## **ENVIRONMENTAL STATEMENT**

### **APPENDIX 14.5 FLOOD RISK ASSESSMENT – ANNEX D BASELINE SURFACE WATER FLOOD RISK**

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<b>Regulation Reference</b>	Regulation 5(2)(e)
<b>Planning Inspectorate Scheme Reference</b>	TR010060
<b>Application Document Reference</b>	TR010060/APP/6.3
<b>Author</b>	A12 Project Team & National Highways

<b>Version</b>	<b>Date</b>	<b>Status of Version</b>
Rev 1	August 2022	DCO Application





## ANNEX D

### Legend

**Proposed scheme**

- Order Limits
- Scheme
- Private means of access and pond access tracks
- Scheme culverts
- Cut-off ditch
- Drainage ponds

**Ditches**

- Existing ditch / watercourse (realigned)

**Walking, cycling and horse-riding route**

- Proposed
- Existing

**Water environment**

- Main River
- Ordinary Watercourses\*
- Existing water features (river, ponds, lakes and reservoirs)

**EA Risk of Flooding From Surface Water**

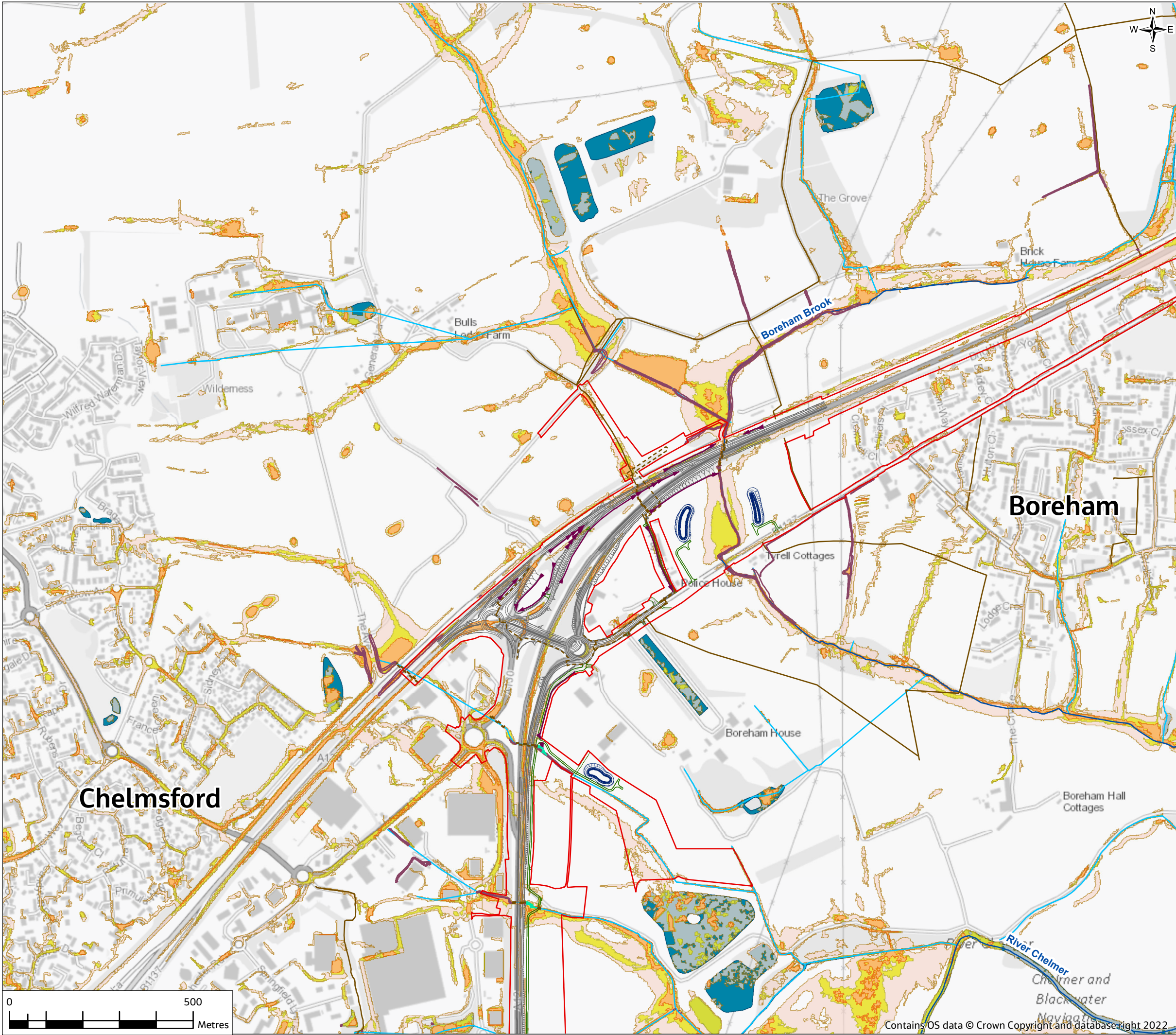
- 3.3% (1 in 30) AEP event (high risk)

Note:  
\*Ordinary Watercourses in the vicinity of the proposed scheme have been numbered for ease of reference

P01	20/07/22	For DCO application	JC	CW	DS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
Development Consent Order Drawing Number: TR010060/APP/6.3			APFP Regulation: Regulation 5(2)(e)			
Client 						
Project REGIONAL DELIVERY PARTNERSHIP A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing Title FLOOD RISK ASSESSMENT ANNEX D BASELINE SURFACE WATER FLOOD RISK SHEET 1 OF 11						
Drawing Status S4 - SUITABLE FOR STAGE APPROVAL						
Scale @ A3		1:10000	DO NOT SCALE			
Jacobs No.		B36601D1	Rev P01			
Client No.		HE551497				
Drawing Number HE551497-JAC-LDC-SCHW-SK-GI-0267						

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- Drainage ponds

#### Ditches

- Proposed cut-off ditch
- Existing ditch / watercourse (realigned)

#### Walking, cycling and horse-riding route

- Proposed
- Existing

#### Water environment

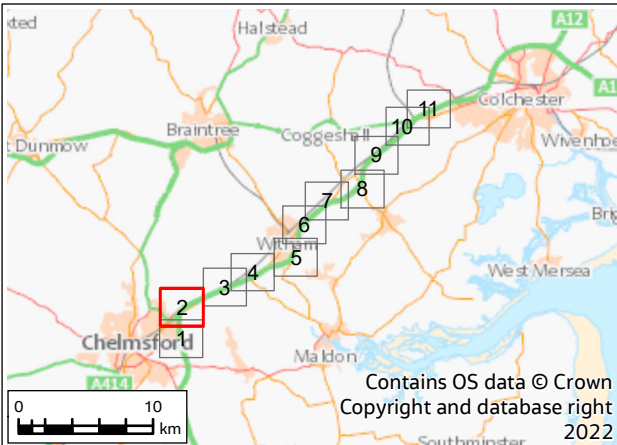
- Main River
- Ordinary Watercourses\*
- Existing water features (river, ponds, lakes and reservoirs)

#### EA Risk of Flooding From Surface Water

- 3.3% (1 in 30) AEP event (high risk)
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- 0.1% (1 in 1000) AEP event (low risk)

Note:

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Client

Project

REGIONAL DELIVERY PARTNERSHIP  
A12 CHELMSFORD TO A120 WIDENING SCHEME

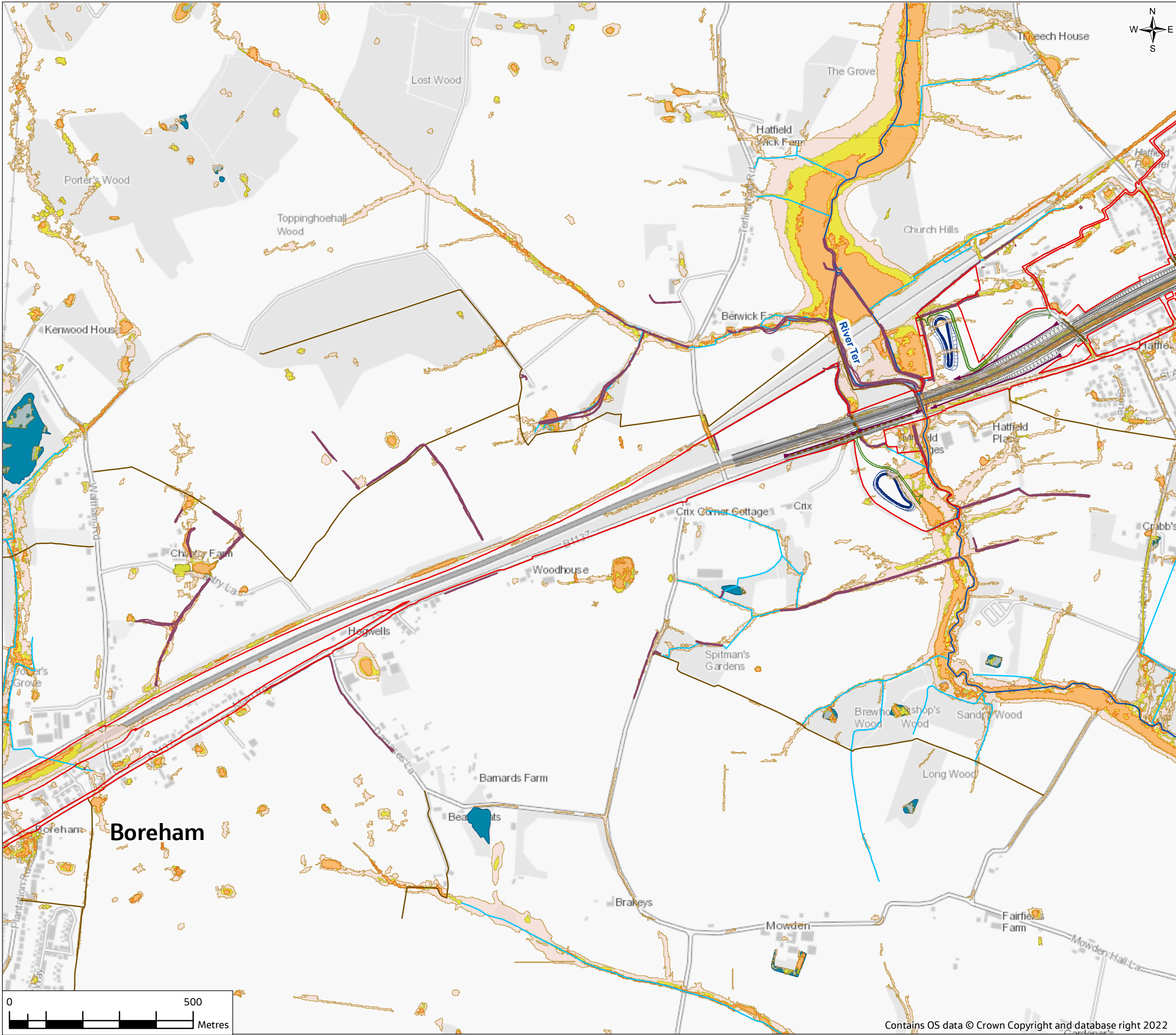
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FLOOD RISK ASSESSMENT ANNEX D  
BASELINE SURFACE WATER FLOOD RISK  
SHEET 2 OF 11

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**Proposed scheme**

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**Ditches**

- Proposed cut-off ditch

**Walking, cycling and horse-riding route**

- Proposed
- Existing

**Water environment**

- Main River
- Ordinary Watercourses\*
- Existing water features (river, ponds, lakes and reservoirs)

**EA Risk of Flooding From Surface Water**

- 3.3% (1 in 30) AEP event (high risk)

1% (1 in 100) AEP event (medium risk)

0.1% (1 in 1000) AEP event (low risk)

Note:

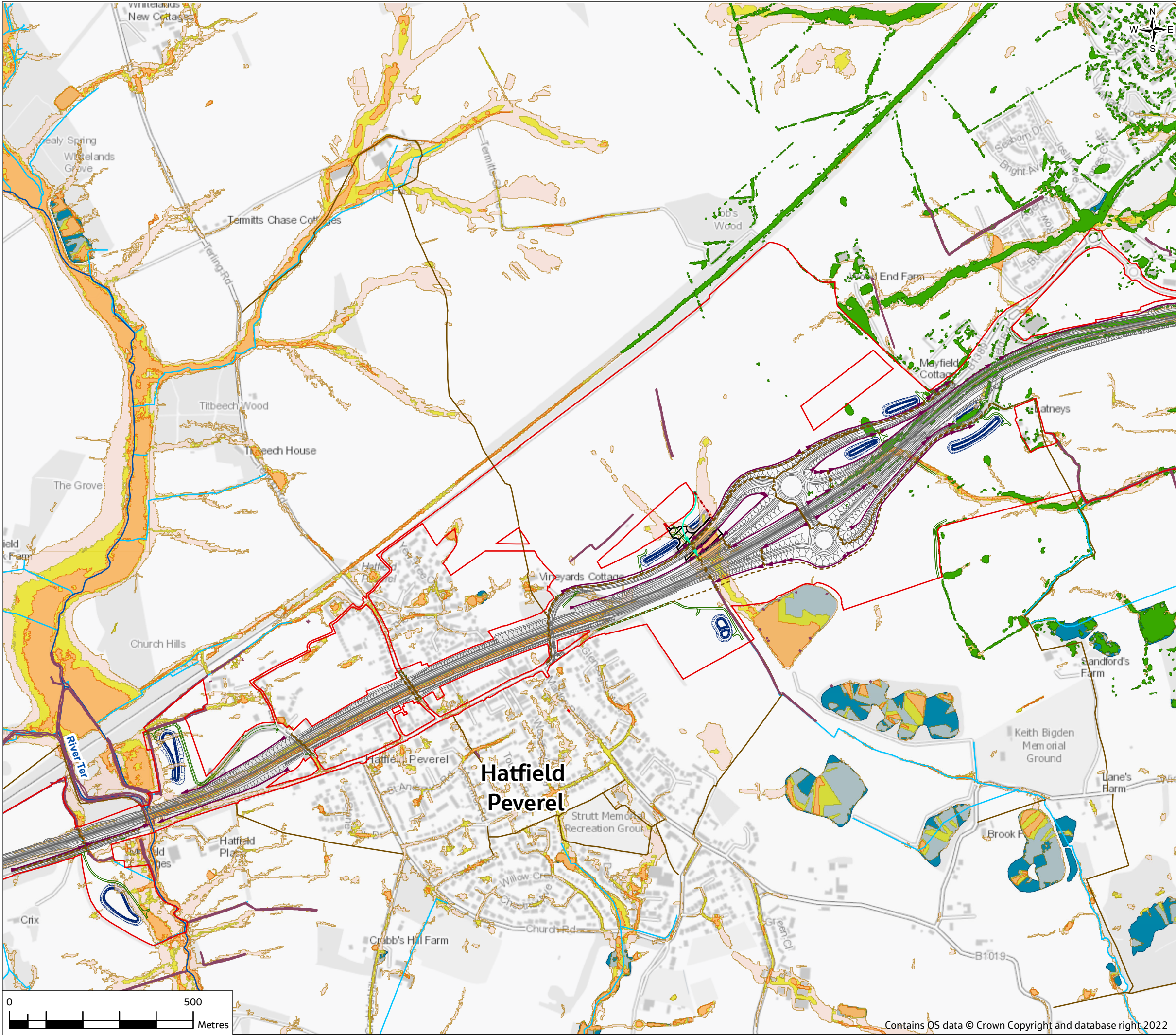
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ANNEX D

**Legend**

**Proposed scheme**

- Order Limits
- Scheme
- Private means of access and pond access tracks
- Scheme culverts
- Cut-off ditch
- Drainage ponds
- Flood mitigation area

**Ditches**

- Proposed cut-off ditch
- Existing ditch / watercourse (realigned)
- Existing ditch / watercourse (to be abandoned)

**Walking, cycling and horse-riding route**

- Proposed
- Existing

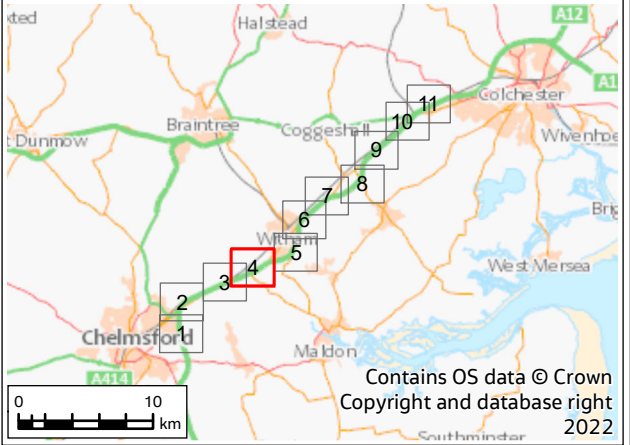
**Water environment**


- Main River
- Ordinary Watercourses\*
- Abandoned watercourses

**EA Risk of Flooding From Surface Water**

- Existing water features (river, ponds, lakes and reservoirs)
- Braintree water flood modelling (1 in 20 AEP + CC), >50mm flood depth
- 3.3% (1 in 30) AEP event (high risk)
- 1% (1 in 100) AEP event (medium risk)
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Development Consent Order Drawing Number: TR010060/APP/6.3			APFP Regulation: Regulation 5(2)(e)			
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Drawing Title						
FLOOD RISK ASSESSMENT ANNEX D BASELINE SURFACE WATER FLOOD RISK SHEET 4 OF 11						
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#### Proposed scheme

- Order Limits
- Scheme
- Private means of access and pond access tracks
- Scheme culverts
- Cut-off ditch
- Drainage ponds

#### Ditches

- Proposed cut-off ditch
- Existing ditch / watercourse (realigned)

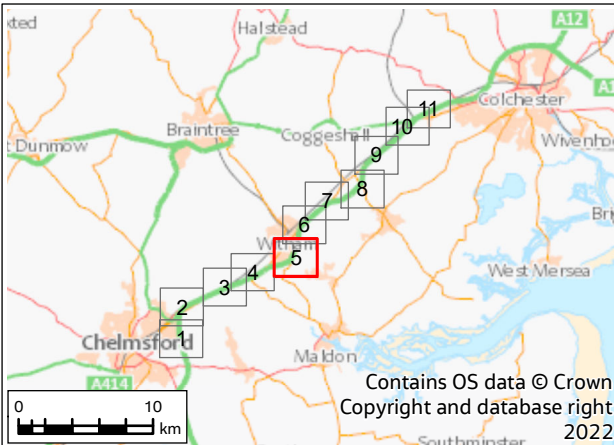
#### Walking, cycling and horse-riding route


- Proposed
- Existing

#### Water environment

- Main River
- Ordinary Watercourses\*
- Existing water features (river, ponds, lakes and reservoirs)
- Local flood risk zones (Braintree & Witham SWMP, 2016)

Note:  
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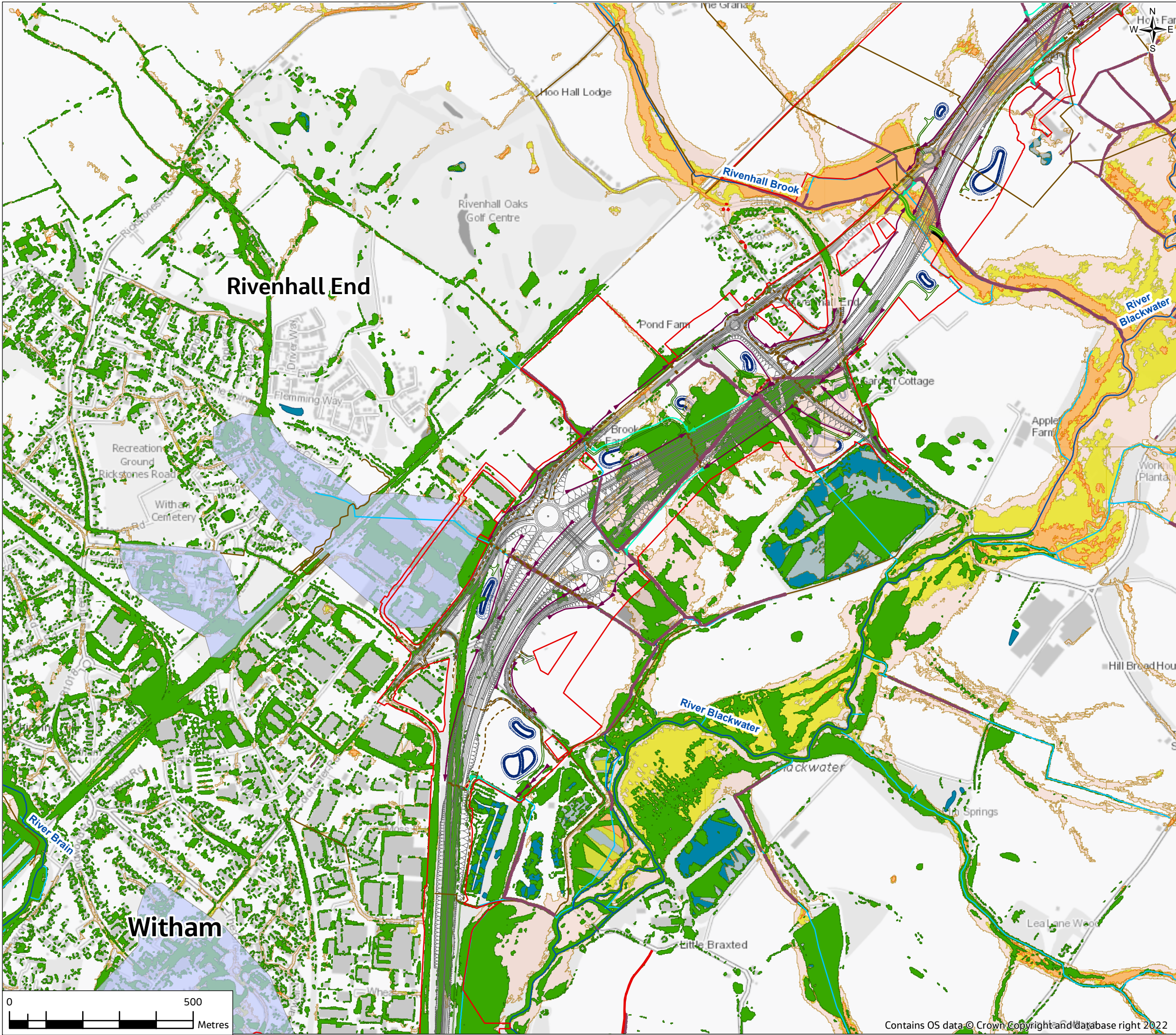


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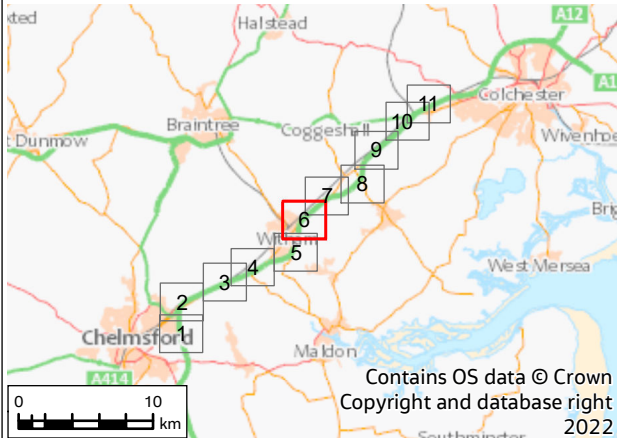




## ANNEX D

- Legend**
- Proposed scheme**
- Order Limits
  - Scheme
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  - Private means of access and pond access tracks
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  - Cut-off ditch
  - Drainage ponds
- Ditches**
- Proposed cut-off ditch
  - Existing ditch / watercourse (realigned)
  - Existing ditch / watercourse (to be abandoned)
  - River diversion
- Walking, cycling and horse-riding route**
- Proposed
  - Existing
- Water environment**
- Main River
  - Ordinary Watercourses\*
- Abandoned watercourses**
- Existing water features (river, ponds, lakes and reservoirs)
  - Local flood risk zones (Braintree & Witham SWMP, 2016)
  - Braintree water flood modelling (1 in 20 AEP + CC), >50mm flood depth
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APFP Regulation: Regulation 5(2)(e)



Project  
REGIONAL DELIVERY PARTNERSHIP  
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing Title  
FLOOD RISK ASSESSMENT ANNEX D  
BASELINE SURFACE WATER FLOOD RISK  
SHEET 6 OF 11

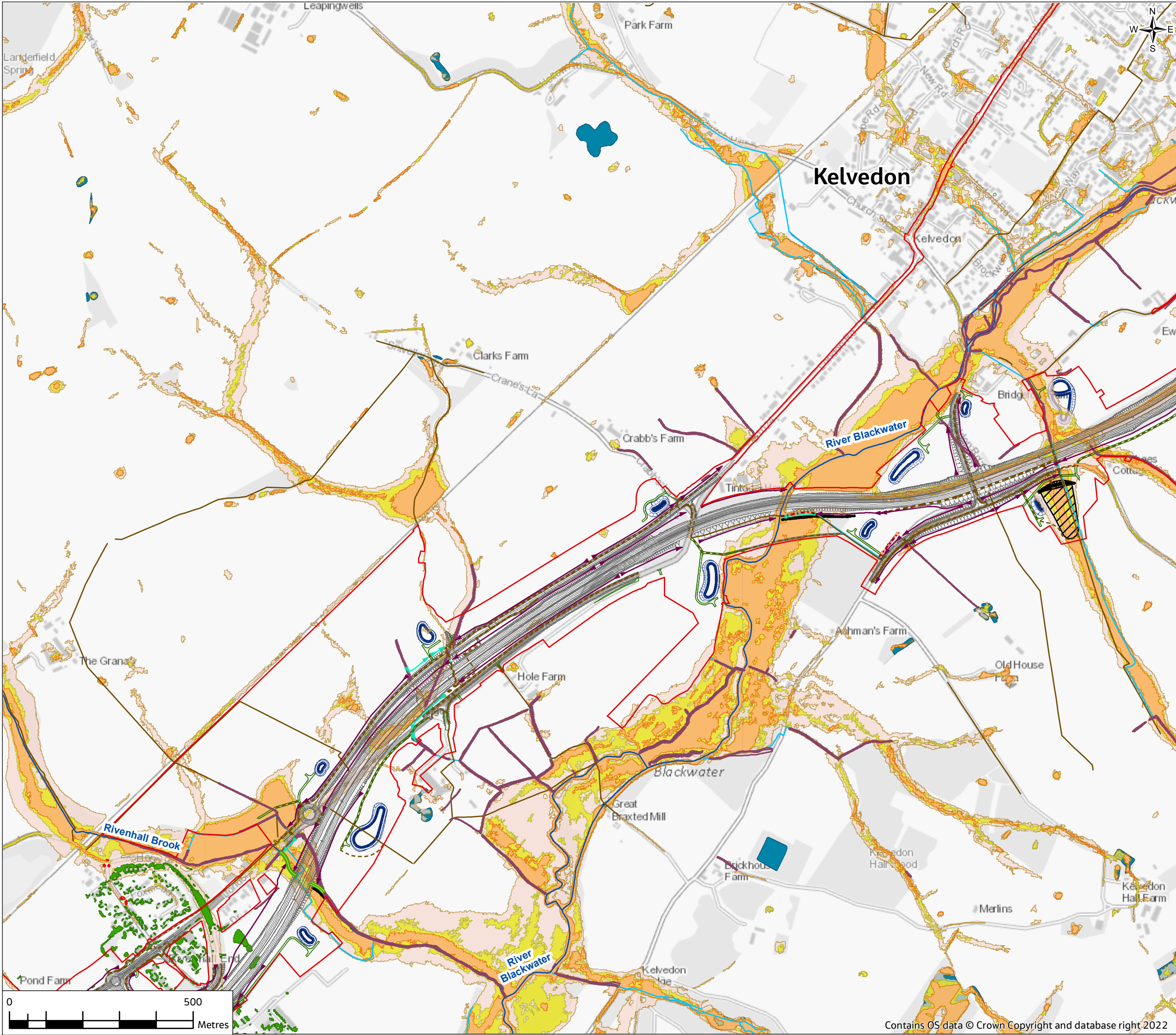
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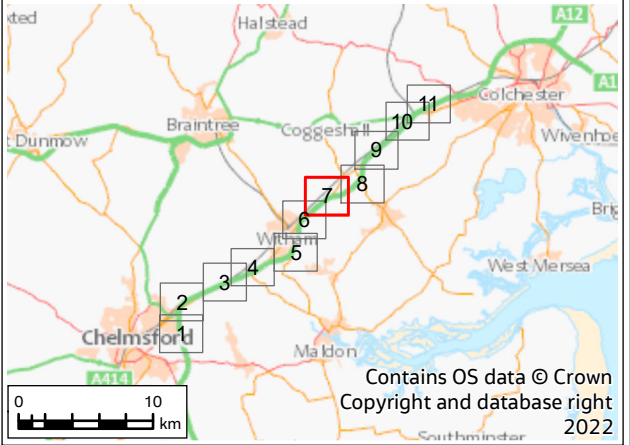





ANNEX D

- Legend**
- Proposed scheme**
- Order Limits
  - Scheme
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  - River diversion
- Walking, cycling and horse-riding route**
- Proposed
  - Existing
- Water environment**
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- Ordinary Watercourses\***
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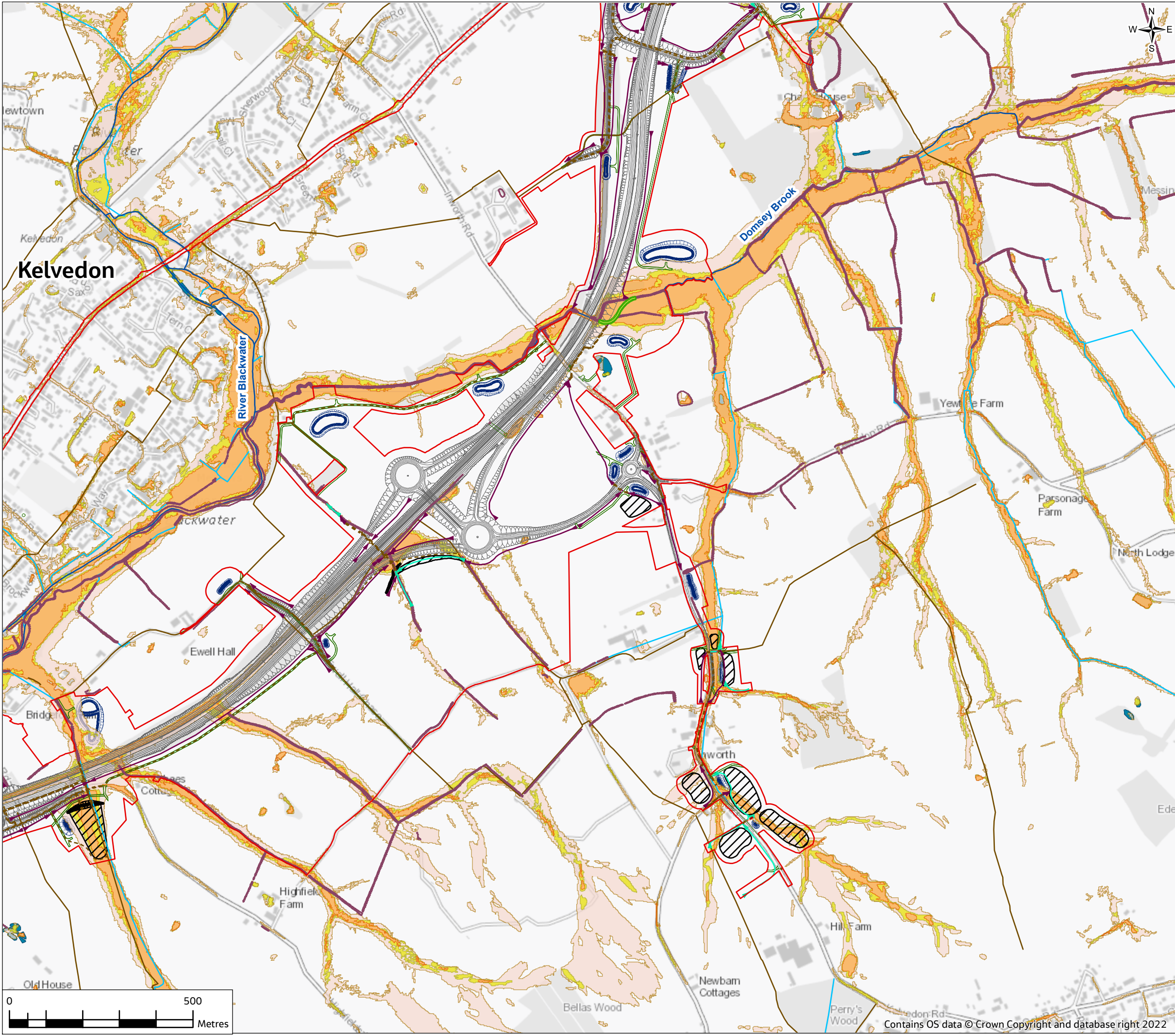
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Development Consent Order Drawing Number: TR010060/APP/6.3			APFP Regulation: Regulation 5(2)(e)			
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Project						
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Drawing Title						
FLOOD RISK ASSESSMENT ANNEX D BASELINE SURFACE WATER FLOOD RISK SHEET 7 OF 11						
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ANNEX D

**Legend**

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- Order Limits
- Scheme
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- Drainage ponds
- Flood mitigation area

**Ditches**

- Proposed cut-off ditch
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- River diversion

**Walking, cycling and horse-riding route**

- Proposed
- Existing

**Water environment**

- Main River

**EA Risk of Flooding From Surface Water**

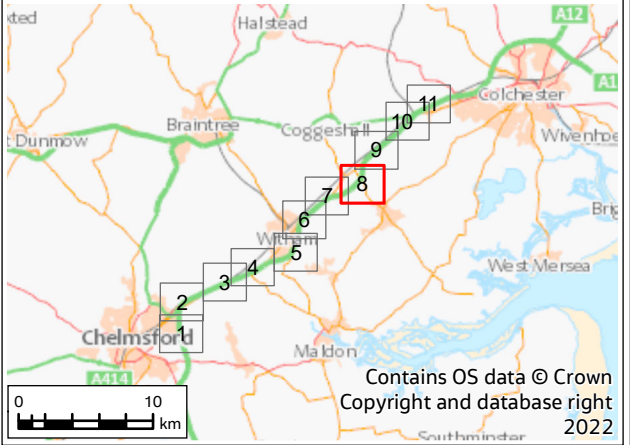
- 3.3% (1 in 30) AEP event (high risk)
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- River diversion

**Ordinary Watercourses\***

- Abandoned watercourses

**Existing water features** (river, ponds, lakes and reservoirs)

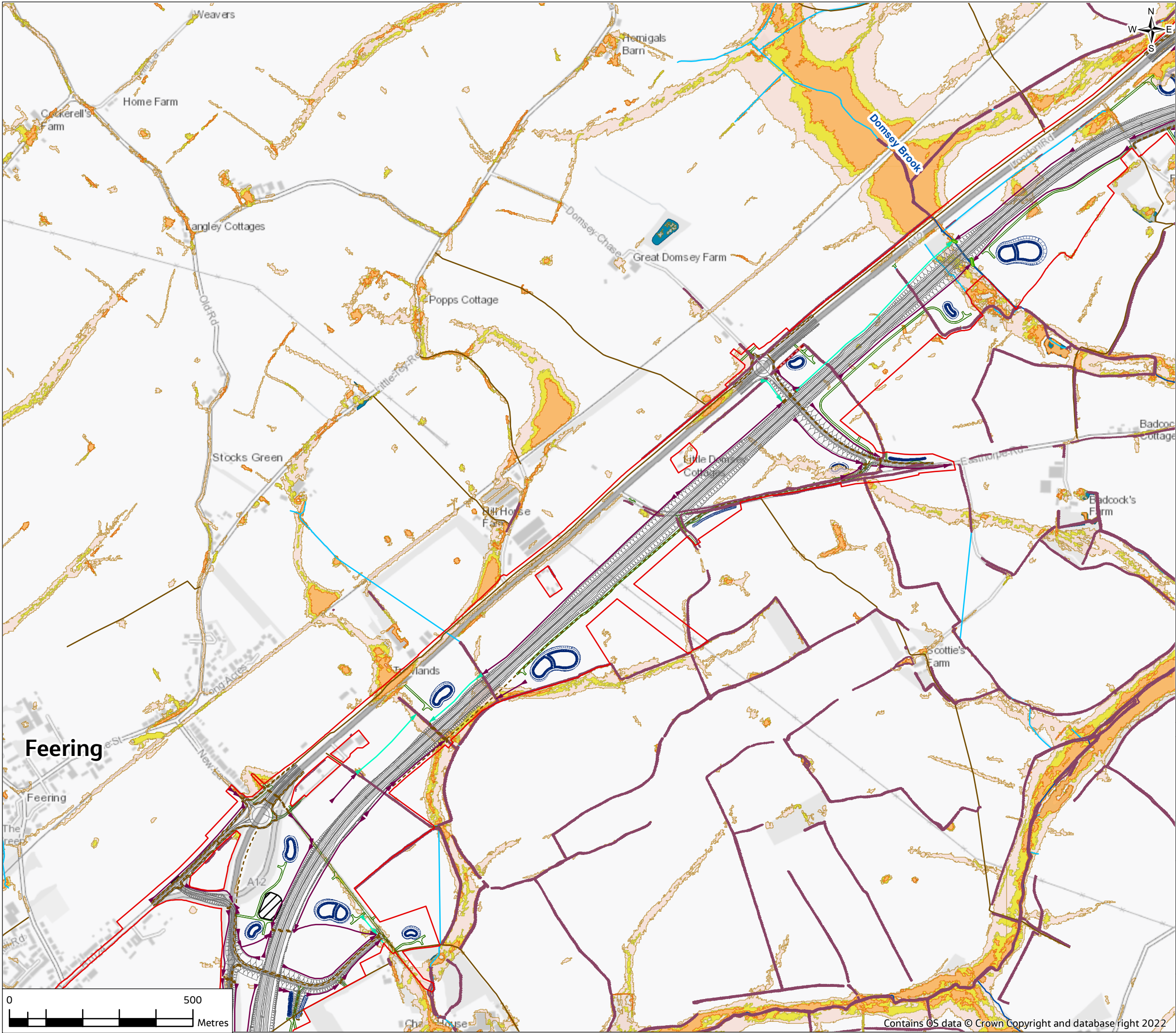
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Project														REGIONAL DELIVERY PARTNERSHIP A12 CHELMSFORD TO A120 WIDENING SCHEME	
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- River diversion

**Walking, cycling and horse-riding route**

- Proposed
- Existing

**Water environment**

- Main River

**EA Risk of Flooding From Surface Water**

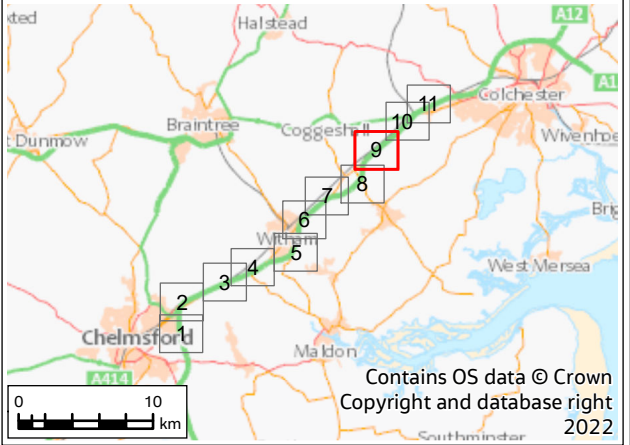
- 3.3% (1 in 30) AEP event (high risk)
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**Ordinary Watercourses\***

- Abandoned watercourses

**Existing water features** (river, ponds, lakes and reservoirs)

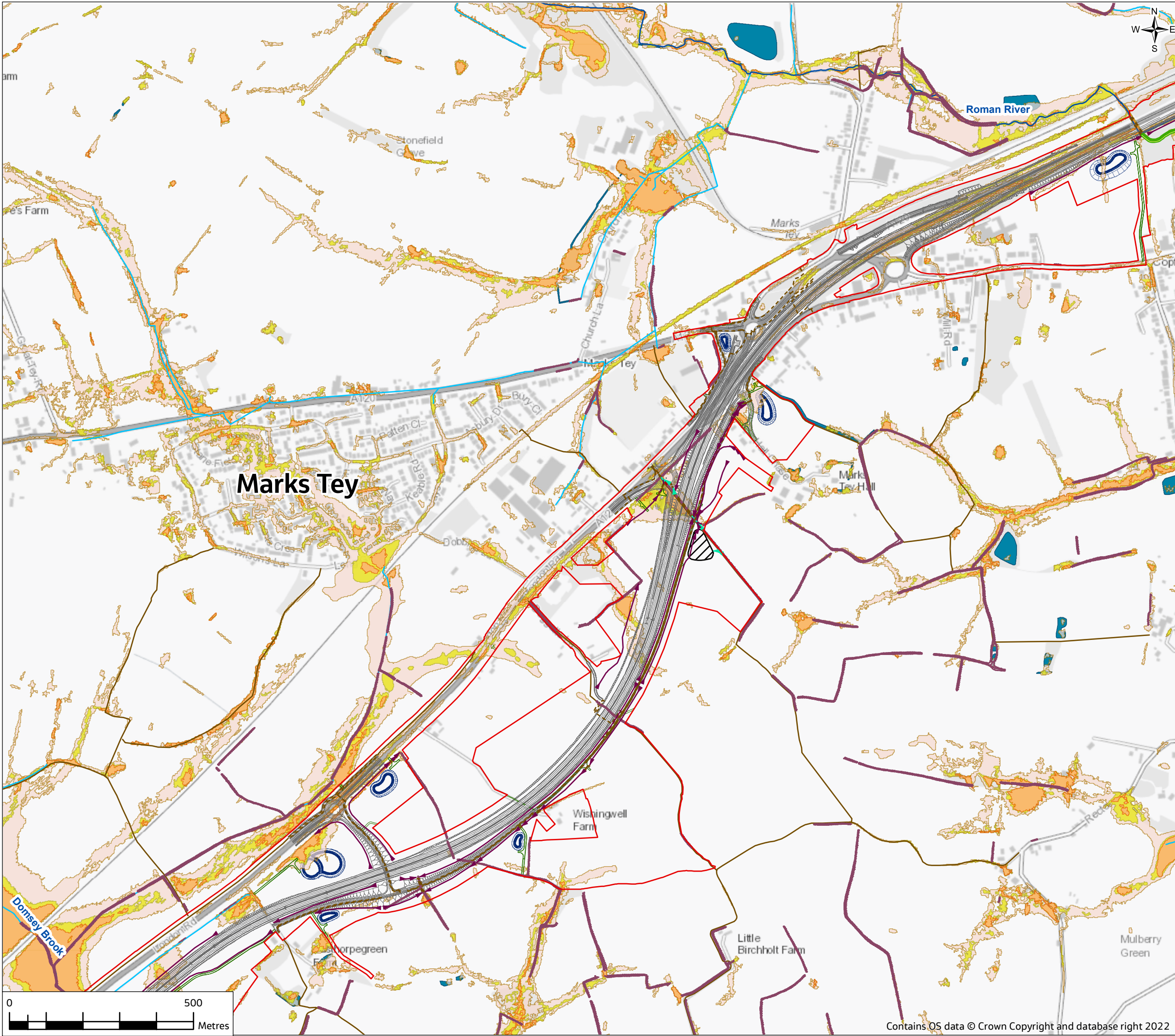
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<div>national highways</div>						
Project						
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Drawing Title						
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- Existing

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- Abandoned watercourses
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Client

Project

REGIONAL DELIVERY PARTNERSHIP

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing Title

FLOOD RISK ASSESSMENT ANNEX D

BASELINE SURFACE WATER FLOOD RISK

SHEET 10 OF 11

Drawing Status

S4 - SUITABLE FOR STAGE APPROVAL

Scale @ A31:10000

DO NOT SCALE

Jacobs No. B36601D1

Rev P01

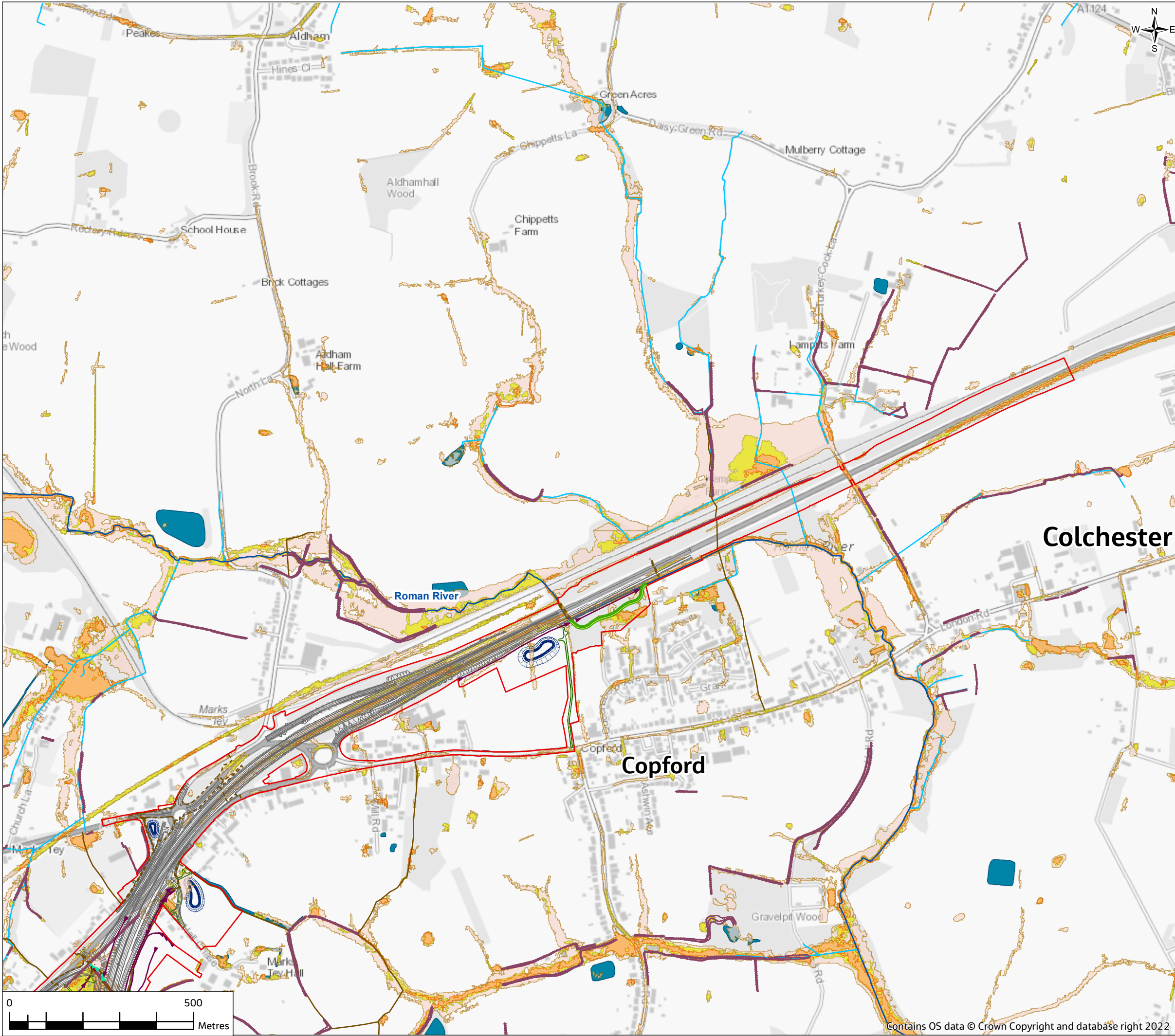
Client No. HE551497

Drawing Number HE551497-JAC-LDC-SCHW-SK-GI-0276

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## ANNEX D

### Legend

**Proposed scheme**

- Order Limits
- Scheme
- Private means of access and pond access tracks
- Scheme culverts
- Cut-off ditch
- Drainage ponds
- Flood mitigation area

**Ditches**

- Proposed cut-off ditch
- Existing ditch / watercourse (realigned)
- Existing ditch / watercourse (to be abandoned)
- River diversion

**Walking, cycling and horse-riding route**

- Proposed
- Existing

**Water environment**

- Main River
- Ordinary Watercourses\*

- Abandoned watercourses
- Existing water features (river, ponds, lakes and reservoirs)

### EA Risk of Flooding From Surface Water

- 3.3% (1 in 30) AEP event (high risk)
- 1% (1 in 100) AEP event (medium risk)
- 0.1% (1 in 1000) AEP event (low risk)
- River diversion

Note:  
\*Ordinary Watercourses in the vicinity of the proposed scheme have been numbered for ease of reference

P01	20/07/22	For DCO application	JC	CW	DS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
Development Consent Order Drawing Number: TR010060/APP/6.3			APFP Regulation: Regulation 5(2)(e)			
Client						
Project						
REGIONAL DELIVERY PARTNERSHIP A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing Title						
FLOOD RISK ASSESSMENT ANNEX D BASELINE SURFACE WATER FLOOD RISK SHEET 11 OF 11						
Drawing Status						
S4 - SUITABLE FOR STAGE APPROVAL						
Scale @ A3		1:10000	DO NOT SCALE			
Jacobs No.		B36601D1	Rev		P01	
Client No.		HE551497				
Drawing Number						
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