

A47 North Tuddenham to Easton Dualling

Scheme Number: TR010038

Volume 6 **6.8 Environmental Masterplan**

APFP Regulation 5(2)(a)

Planning Act 2008

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

March 2021

Infrastructure Planning

Planning Act 2008

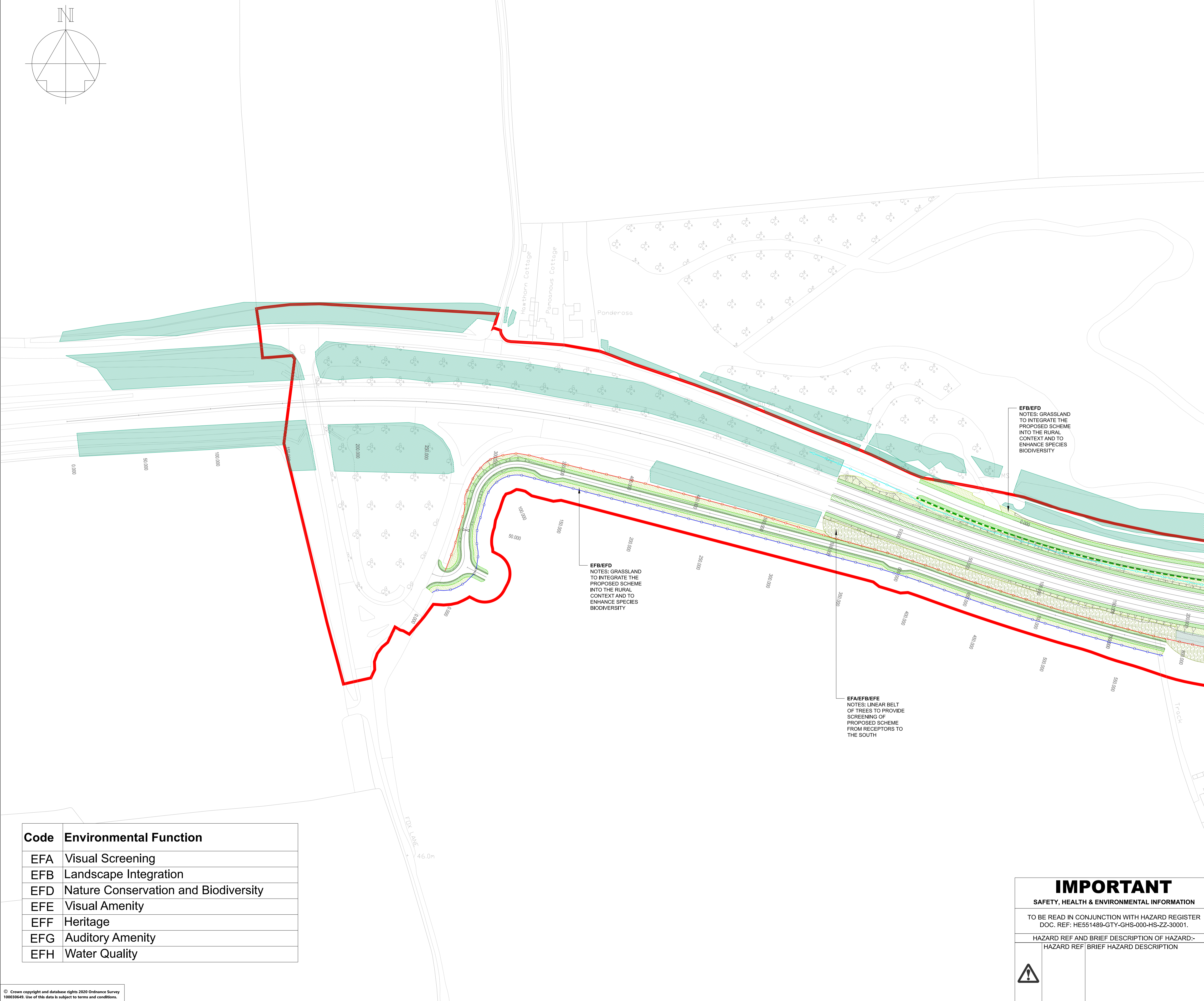
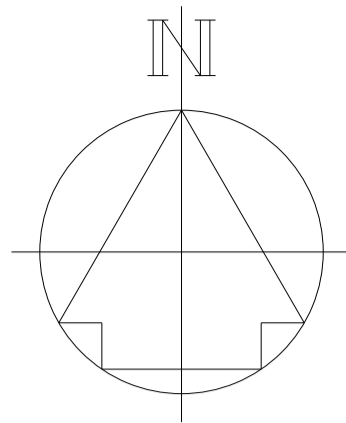
**The Infrastructure Planning
(Applications: Prescribed Forms and
Procedure) Regulations 2009**

The A47 North Tuddenham to Easton
Development Consent Order 202[x]

ENVIRONMENTAL MASTERPLAN

Regulation Number:	5(2)(a)
Planning Inspectorate Scheme Reference	TR010038
Application Document Reference	TR010038/APP/6.8
BIM Document Reference	HE551489-GTY-ELS-000-DR-LX-30003-C02
Author:	A47 North Tuddenham to Easton Dualling Project Team, Highways England

Version	Date	Status of Version
Rev 0	March 2021	Application Issue



- NOTES**
1. A MAINTENANCE STRIP OF 1M (MINIMUM) WILL BE REQUIRED ON THE HIGHWAY SIDE OF ALL PROPOSED FENCING. TO BE PLANTED WITH SPECIES RICH GRASSLAND/AMENITY GRASS, WHERE APPROPRIATE. DETAILING WILL BE PROVIDED AT STAGE 5.
 2. ALL AREAS OF PROPOSED WOODLAND, LINEAR BELTS OF SHRUBS AND TREES, SHRUBS WITH INTERMITTENT TREES, AND SHRUBS TO BE PLANTED WITH SPECIES RICH GRASSLAND. ALL AREAS OF RIPARIAN WOODLAND TO BE PLANTED WITH RIPARIAN SEEDING MIX. SEE PLANTING SCHEDULE FOR FURTHER DETAILS.
 3. ALL STAGS CORRIDORS ARE INDICATIVE ONLY AND WILL BE FINALISED AT THE DETAILED DESIGN STAGE.
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 5. ALL DIMENSION IN METRES (m) UNLESS OTHERWISE STATED.
 6. DO NOT SCALE FROM THIS DRAWING.
 7. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
 - HE551489-GTY-ELS-000-DR-LX-30004
 - HE551489-GTY-ELS-000-DR-LX-30005
 - HE551489-GTY-ELS-000-DR-LX-30006
 - HE551489-GTY-ELS-000-DR-LX-30007
 - HE551489-GTY-ELS-000-DR-LX-30008
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 - HE551489-GTY-ELS-000-DR-LX-30015
 - HE551489-GTY-ELS-000-DR-LX-30016
 8. FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

DCO BOUNDARY	LE4.4 NATIVE HEDGEROWS WITH TREES
ORSTED HORNSSEA WIND FARM	LE5.1 INDIVIDUAL TREES
EXISTING PUBLIC RIGHT OF WAY	LE5.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
EXISTING VEGETATION	LE6.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
EXISTING VEGETATION TO BE RETAINED	PROPOSED ELEMENTS - OTHER
PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LIGHTING COLUMN LOCATION (REFER TO LIGHTING DRAWING SERIES FOR FURTHER INFORMATION)
EFA - WATER POLLUTION CONTROL MEASURES - ATTENUATION/RETENTION POND	HIGHWAY BOUNDARY - MCHW VOL.3 SECT.1 H3 TIMBER POST AND RAIL
PROPOSED COMPENSATORY FLOOD STORAGE AREA	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H13 POST AND STRAINED WIRE
LISTED MILESTONE	BADGER PROOF FENCING - H13 TIMBER POST AND RAIL WITH BADGER PROOF MESH
PROPOSED LANDSCAPE ELEMENTS	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
LE1.1 AMENITY GRASS AREAS	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
LE1.3 SPECIES RICH GRASSLAND	2m HIGH NOISE AND VISUAL SCREEN
LE2.1 WOODLAND	3m HIGH NOISE BARRIER
LE2.1 WOODLAND RW (RIPARIAN WOODLAND)	BASH FENCING - MCHW HCD H13 POST AND STRAINED WIRE
LE2.4 LINEAR BELTS OF SHRUBS AND TREES	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
LE2.5 SHRUBS WITH INTERMITTENT TREES	FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
LE2.6 SHRUBS	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, GAT BOLT
LE4.3 NATIVE SPECIES HEDGEROWS	

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
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P02	03/03/21	FINAL	SWR	ECo	BJon
C01	03/03/21	FINAL	SWR	ECo	BJon
P03	04/03/21	FINAL	LS	JMee	BJon
C02	04/03/21	FINAL	LS	JMee	BJon

DESIGNER

SWECO

CONTRACTOR

GallifordTry

CLIENT

highways england

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE

PCF STAGE 3

DRAWING TITLE

Environmental Masterplan Sheet 1 of 14 TR010038/APP/6.8

SUITABILITY

AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C02

DRAWING NUMBER

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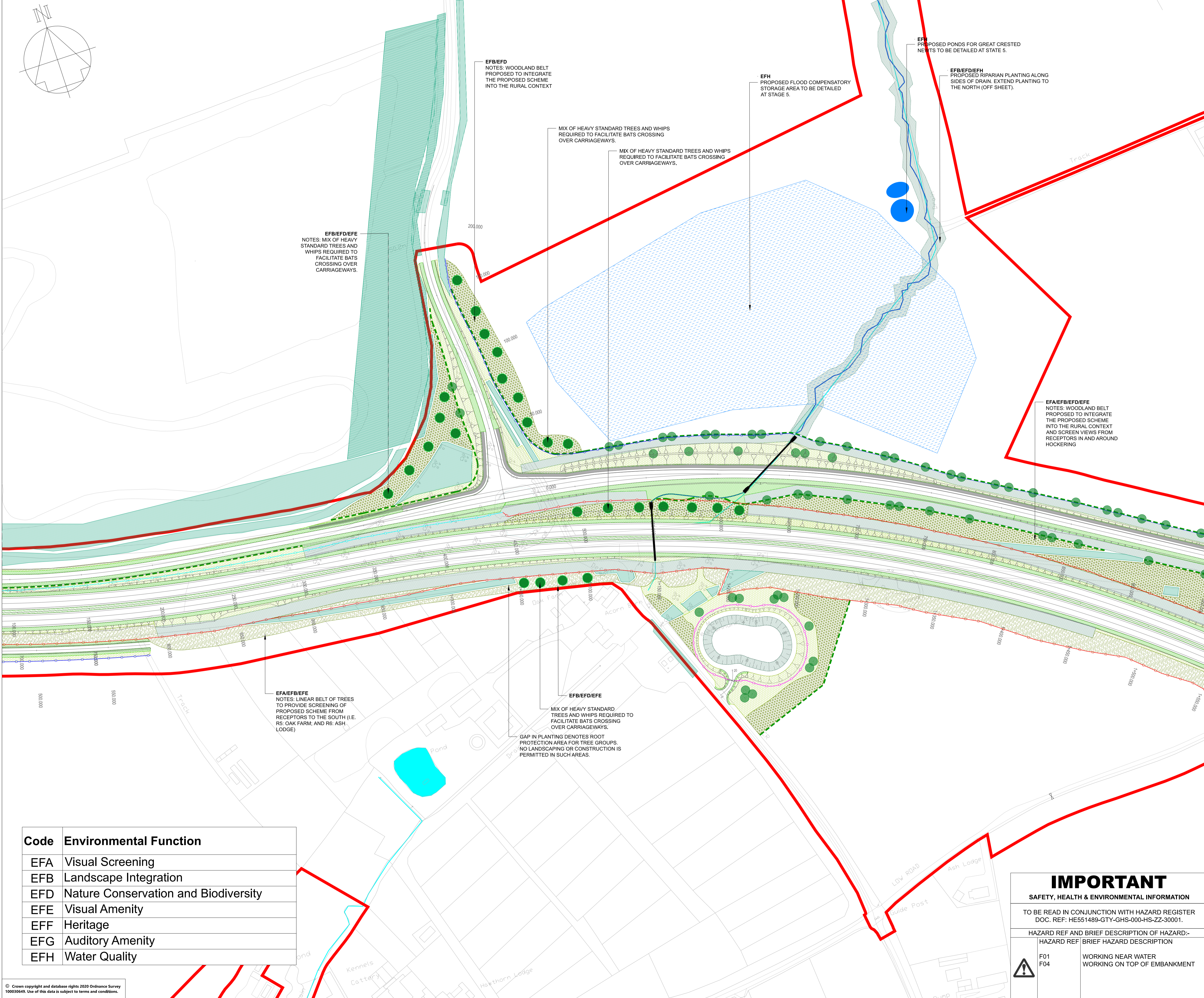
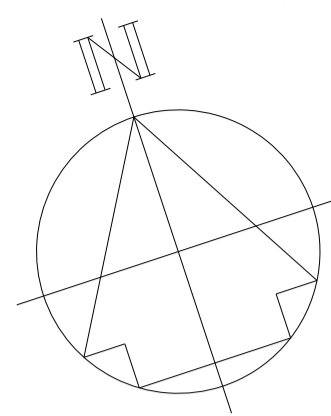
Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
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EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

IMPORTANT

SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF	BRIEF DESCRIPTION OF HAZARD-
	BRIEF HAZARD DESCRIPTION



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KEY TO SYMBOLS

DOO BOUNDARY	EXISTING VEGETATION TO BE RETAINED	PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LANDSCAPE ELEMENTS	LE4.4 NATIVE HEDGEROWS WITH TREES	PROPOSED ELEMENTS - OTHER
CRISTED HORNSEA WIND FARM	EXISTING VEGETATION	ES.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/RETENTION PONDS	LE1.1 AMENITY GRASS AREAS	LE5.1 INDIVIDUAL TREES	PROPOSED LIGHTING COLUMN LOCATION (REFER TO LIGHTING DRAWING SERIES FOR FURTHER INFORMATION)
EXISTING PUBLIC RIGHT OF WAY	EXISTING VEGETATION	PROPOSED COMPENSATORY FLOOD STORAGE AREA	LE1.3 SPECIES RICH GRASSLAND	LE5.2 SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS	HIGHWAY BOUNDARY - MCHW VOL.3 SECT.1 H3 TIMBER POST AND RAIL
LISTED MILESTONE	EXISTING VEGETATION	LISTED MILESTONE	LE2.1 WOODLAND	LE5.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H13 POST AND STRAINED WIRE
			LE2.1 WOODLAND RW (RIPARIAN WOODLAND)		BADGER PROOF FENCING - H3 TIMBER POST AND RAIL WITH BADGER PROOF MESH
			LE2.4 LINEAR BELTS OF SHRUBS AND TREES		SAF MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
			LE2.5 SHRUBS WITH INTERMITTENT TREES		SAF MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
			LE2.6 SHRUBS		2m HIGH NOISE AND VISUAL SCREEN
			LE4.3 NATIVE SPECIES HEDGEROWS		3m HIGH NOISE BARRIER
					BASIN FENCING - MCHW HCD H13 POST AND STRAINED WIRE
					ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
					FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
					4.5m WIDE SINGLE HEAVY DUTY TIMBER FAIRSAFE GATE, OR BOLT.

26/02/21	FOR ISSUE		LS	ECoo	BJon
P02	03/03/21	FINAL	SWrt	ECoo	BJon
C01	03/03/21	FINAL	SWrt	ECoo	BJon
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DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
Environmental Masterplan Sheet 2 of 14 TR010038/APP/6.8

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C02
DRAWING NUMBER			
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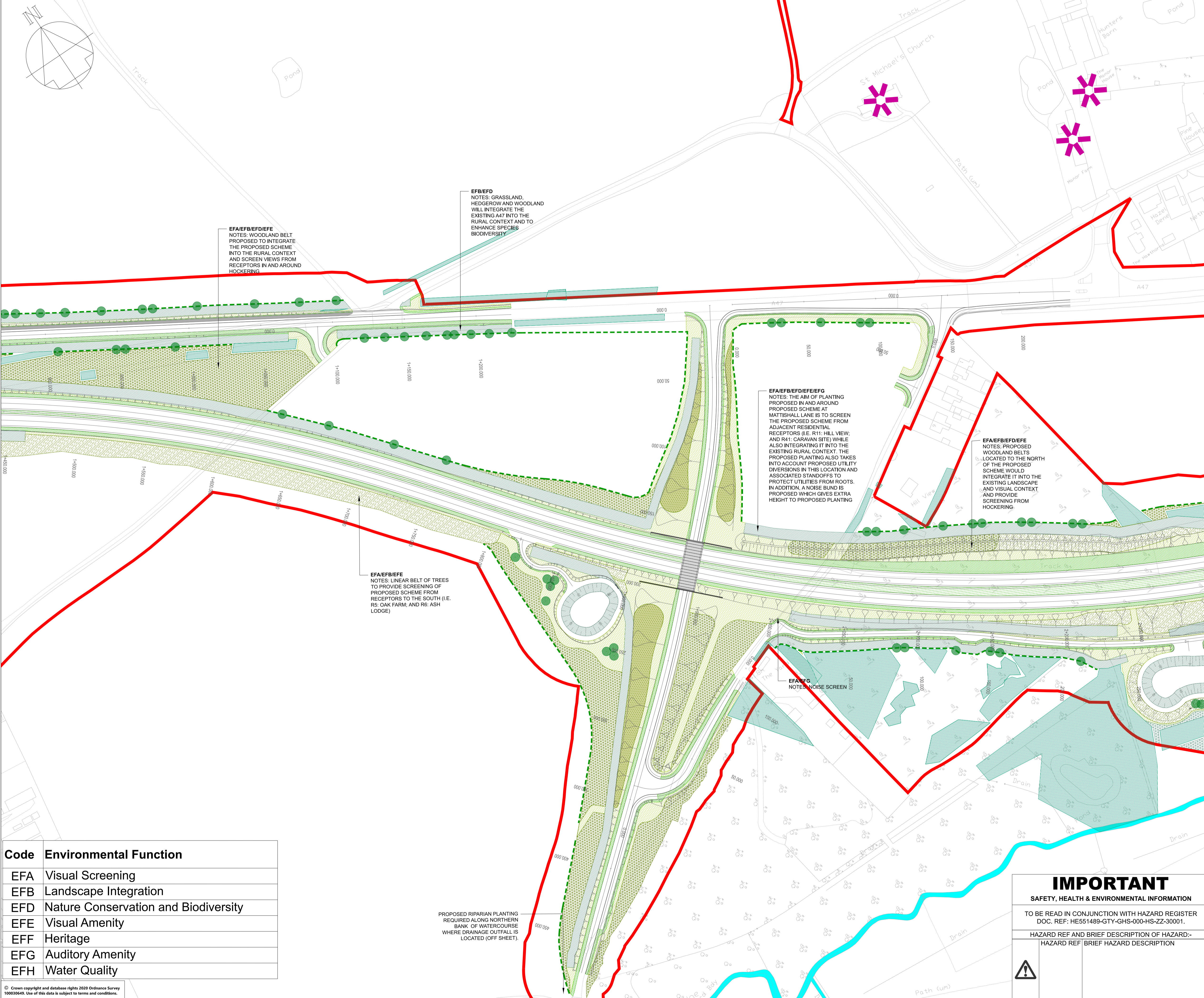
Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

IMPORTANT
SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF	BRIEF HAZARD DESCRIPTION
F01 F04	WORKING NEAR WATER WORKING ON TOP OF EMBANKMENT

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KEY TO SYMBOLS

DOD BOUNDARY	LE4.4 NATIVE HEDGEROWS WITH TREES
CRISTED HORNGE WIND FARM	LE5.1 INDIVIDUAL TREES
EXISTING PUBLIC RIGHT OF WAY	LE5.1A INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
EXISTING VEGETATION	LE5.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
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E2.1 WATER POLLUTION CONTROL MEASURES - SITES/STORAGE AREAS	HIGHWAY BOUNDARY - MCHW VOL. 3 SECT.1 H3 TIMBER POST AND RAIL
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SWECO

CONTRACTOR
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highways england

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
Environmental Masterplan Sheet 3 of 14 TR010038/APP/6.8

SUITABILITY
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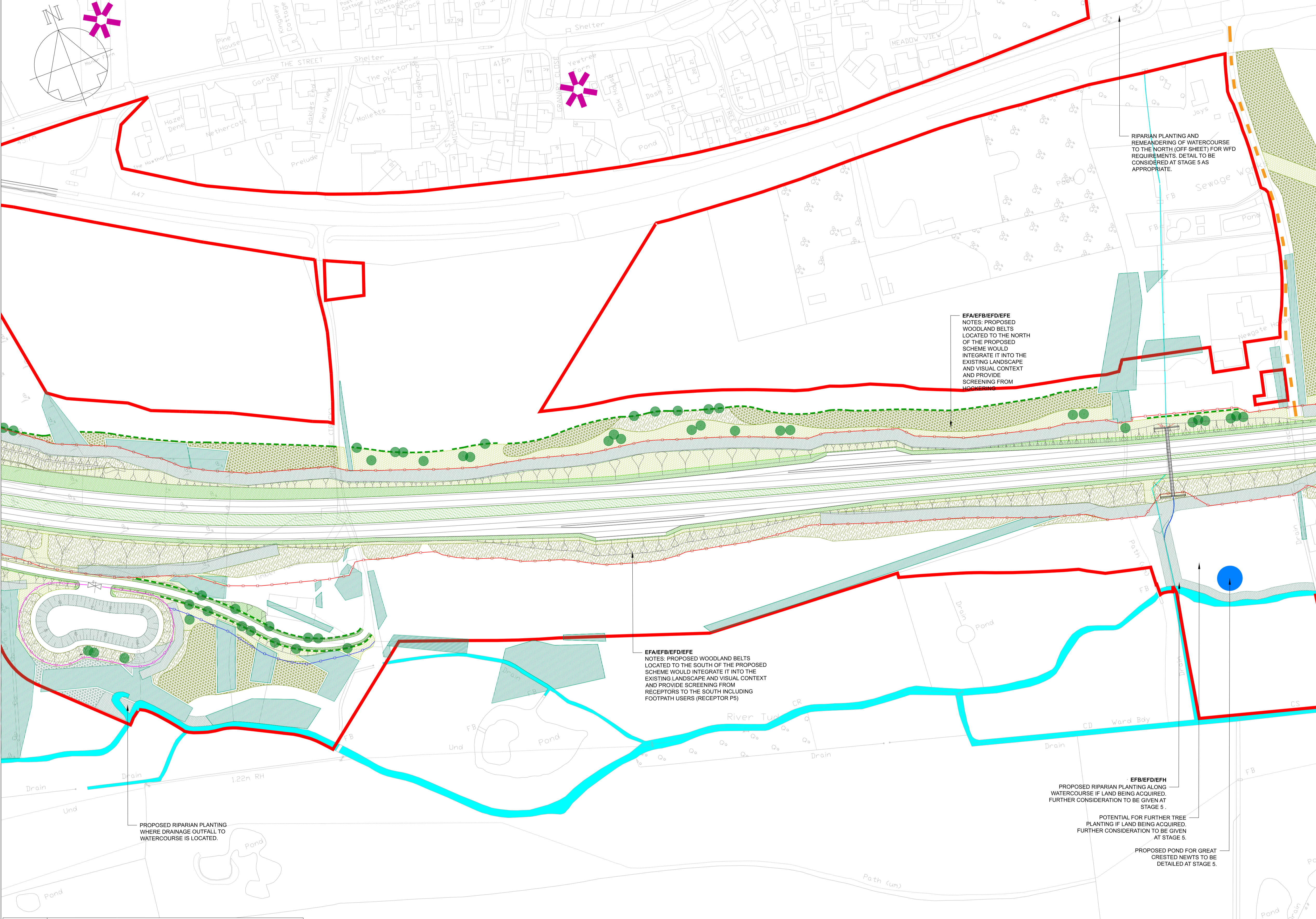
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DRAWING NUMBER
HE551489-GTY-ELS-000-DR-LX-30005

Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
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HAZARD REF AND BRIEF DESCRIPTION OF HAZARD:-
HAZARD REF: BRIEF HAZARD DESCRIPTION

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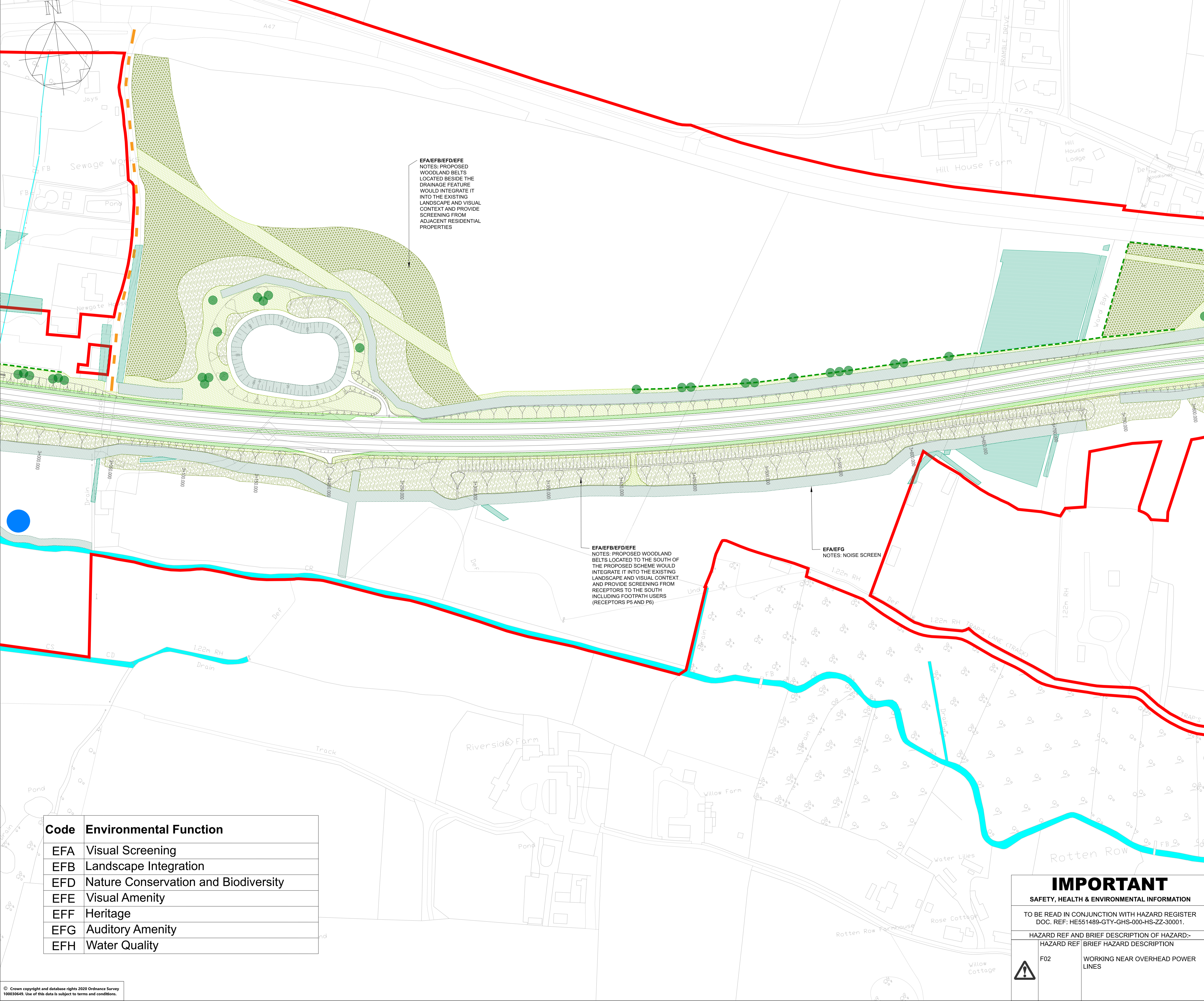
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HAZARD REF	BRIEF DESCRIPTION OF HAZARD:-
F02	WORKING NEAR OVERHEAD POWER LINES

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EFA/EFB/EFD/EFE
 NOTES: PROPOSED WOODLAND BELTS LOCATED BESIDE THE DRAINAGE FEATURE WOULD INTEGRATE IT INTO THE EXISTING LANDSCAPE AND VISUAL CONTEXT AND PROVIDE SCREENING FROM ADJACENT RESIDENTIAL PROPERTIES

EFA/EFB/EFD/EFE
 NOTES: PROPOSED WOODLAND BELTS LOCATED TO THE SOUTH OF THE PROPOSED SCHEME WOULD INTEGRATE IT INTO THE EXISTING LANDSCAPE AND VISUAL CONTEXT AND PROVIDE SCREENING FROM RECEPTORS TO THE SOUTH INCLUDING FOOTPATH USERS (RECEPTORS P5 AND P6)

EFA/EFB
 NOTES: NOISE SCREEN

Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

- NOTES**
- A MAINTENANCE STRIP OF 1M (MINIMUM) WILL BE REQUIRED ON THE HIGHWAY SIDE OF ALL PROPOSED FENCING. TO BE PLANTED WITH SPECIES RICH GRASSLAND/AMENITY GRASS. WHERE APPROPRIATE. DETAILING WILL BE PROVIDED AT STAGE 5.
 - ALL AREAS OF PROPOSED WOODLAND, LINEAR BELTS OF SHRUBS AND TREES, SHRUBS WITH INTERMITTENT TREES, AND SHRUBS TO BE PLANTED WITH SPECIES RICH GRASSLAND. ALL AREAS OF RIPARIAN WOODLAND TO BE PLANTED WITH RIPARIAN SEEDING MIX. SEE PLANTING SCHEDULE FOR FURTHER DETAILS.
 - ALL STAGS CORRIDORS ARE INDICATIVE ONLY AND WILL BE FINALISED AT THE DETAILED DESIGN STAGE.
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 - ALL DIMENSION IN METRES (m) UNLESS OTHERWISE STATED.
 - DO NOT SCALE FROM THIS DRAWING.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
 HE551489-GTY-ELS-000-DR-LX-30003
 HE551489-GTY-ELS-000-DR-LX-30004
 HE551489-GTY-ELS-000-DR-LX-30005
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 HE551489-GTY-ELS-000-DR-LX-30008
 HE551489-GTY-ELS-000-DR-LX-30009
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 HE551489-GTY-ELS-000-DR-LX-30013
 HE551489-GTY-ELS-000-DR-LX-30014
 HE551489-GTY-ELS-000-DR-LX-30015
 HE551489-GTY-ELS-000-DR-LX-30016
 - FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

DDO BOUNDARY	LE4.4 NATIVE HEDGEROWS WITH TREES
CRISTED HORNSEA WIND FARM	LES.1 INDIVIDUAL TREES
EXISTING PUBLIC RIGHT OF WAY	LES.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY PLANTING SPECIFICATIONS
EXISTING VEGETATION	LES.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
EXISTING VEGETATION TO BE RETAINED	PROPOSED ELEMENTS - OTHER
PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LIGHTING COLUMN LOCATION (REFER TO LIGHTING DRAWING SERIES FOR FURTHER INFORMATION)
E2.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/RETENTION PONDS	HIGHWAY BOUNDARY - MCHW VOL.3 SECT.1 H3 TIMBER POST AND RAIL
PROPOSED COMPENSATORY FLOOD STORAGE AREA	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H13 POST AND STRAINED WIRE
LISTED MILESTONE	BADGER PROOF FENCING - H13 TIMBER POST AND RAIL WITH BADGER PROOF MESH
PROPOSED LANDSCAPE ELEMENTS	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
LE1.1 AMENITY GRASS AREAS	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
LE1.3 SPECIES RICH GRASSLAND	2m HIGH NOISE AND VISUAL SCREEN
LE2.1 WOODLAND	3m HIGH NOISE BARRIER
LE2.1 WOODLAND RW (RIPARIAN WOODLAND)	BASIN FENCING - MCHW HCD H13 POST AND STRAINED WIRE
LE2.4 LINEAR BELTS OF SHRUBS AND TREES	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
LE2.2 SHRUBS WITH INTERMITTENT TREES	FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
LE2.6 SHRUBS	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, O4 BOLT.
LE4.3 NATIVE SPECIES HEDGEROWS	

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	FOR ISSUE	LS	ECoo	BJon
P02	03/03/21	FINAL	SWR	ECoo	BJon
C01	03/03/21	FINAL	SWR	ECoo	BJon
P03	04/03/21	FINAL	LS	JMee	BJon
C02	04/03/21	FINAL	LS	JMee	BJon

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE
PCF STAGE 3

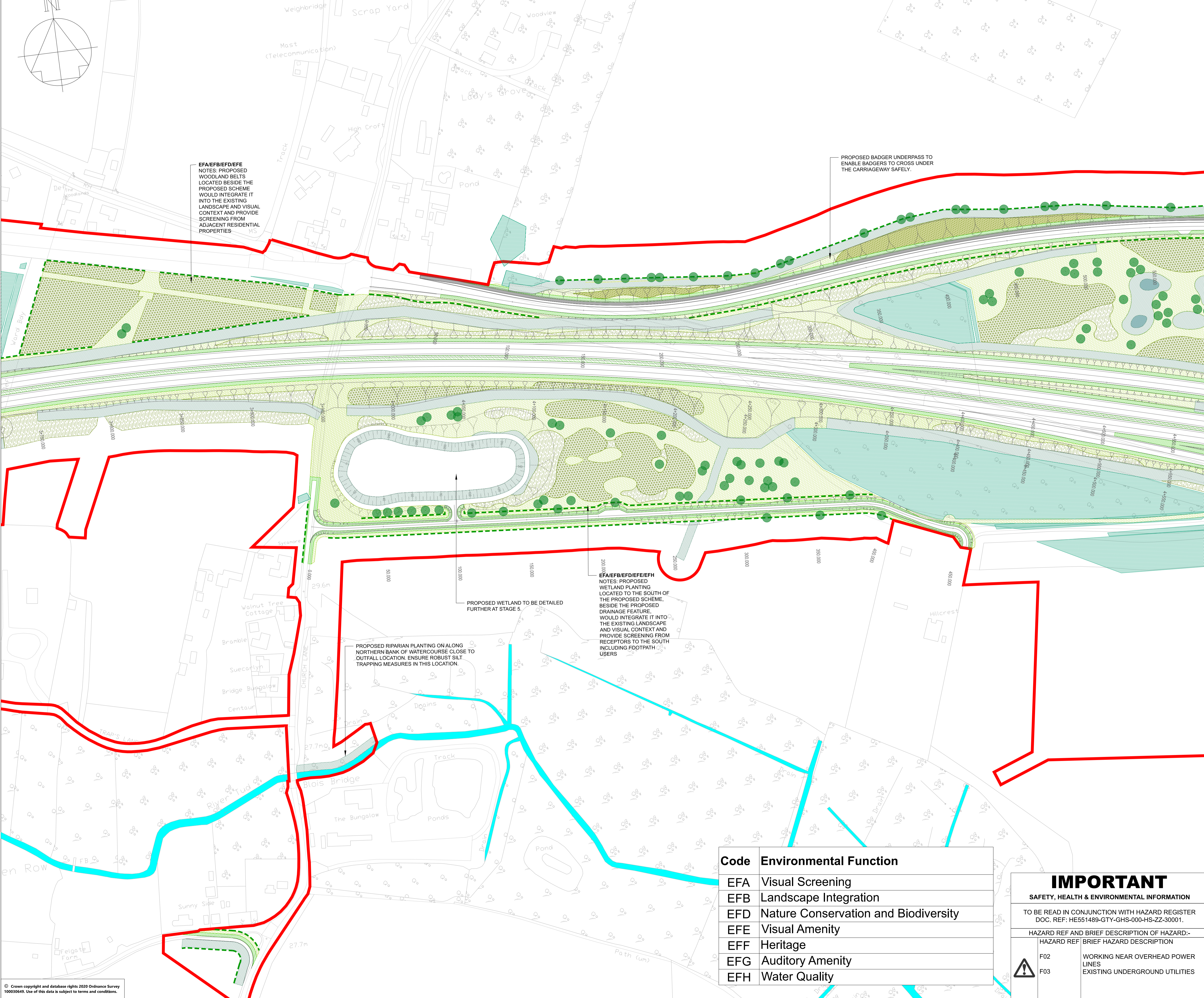
DRAWING TITLE
Environmental Masterplan Sheet 5 of 14 TR010038/APP/6.8

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C02

DRAWING NUMBER
HE551489-GTY-ELS-000-DR-LX-30007

IMPORTANT
SAFETY, HEALTH & ENVIRONMENTAL INFORMATION
 TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.
 HAZARD REF AND BRIEF DESCRIPTION OF HAZARD:-
 HAZARD REF: F02 BRIEF HAZARD DESCRIPTION: WORKING NEAR OVERHEAD POWER LINES



EFA/EFB/EFD/EFE
 NOTES: PROPOSED WOODLAND BELTS LOCATED BESIDE THE PROPOSED SCHEME WOULD INTEGRATE IT INTO THE EXISTING LANDSCAPE AND VISUAL CONTEXT AND PROVIDE SCREENING FROM ADJACENT RESIDENTIAL PROPERTIES

PROPOSED BADGER UNDERPASS TO ENABLE BADGERS TO CROSS UNDER THE CARRIAGEWAY SAFELY.

PROPOSED WETLAND TO BE DETAILED FURTHER AT STAGE 5.

PROPOSED RIPARIAN PLANTING ON ALONG NORTHERN BANK OF WATERCOURSE CLOSE TO OUTFALL LOCATION. ENSURE ROBUST SILT TRAPPING MEASURES IN THIS LOCATION.

EFH/EFB/EFD/EFE/EFH
 NOTES: PROPOSED WETLAND PLANTING LOCATED TO THE SOUTH OF THE PROPOSED SCHEME, BESIDE THE PROPOSED DRAINAGE FEATURE, WOULD INTEGRATE IT INTO THE EXISTING LANDSCAPE AND VISUAL CONTEXT AND PROVIDE SCREENING FROM RECEPTORS TO THE SOUTH INCLUDING FOOTPATH USERS

Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

IMPORTANT
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 TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.
 HAZARD REF AND BRIEF DESCRIPTION OF HAZARD:-
 HAZARD REF: F02 WORKING NEAR OVERHEAD POWER LINES
 HAZARD REF: F03 EXISTING UNDERGROUND UTILITIES

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 HE551489-GTY-ELS-000-DR-LX-30007
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 HE551489-GTY-ELS-000-DR-LX-30015
 HE551489-GTY-ELS-000-DR-LX-30016
 - FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

Symbol	Description
[Red Line]	DCO BOUNDARY
[Hatched Area]	EXISTING HORNSEA WIND FARM
[Dashed Line]	EXISTING PUBLIC RIGHT OF WAY
[Green Area]	EXISTING VEGETATION
[Blue Area]	EXISTING VEGETATION TO BE RETAINED
[Blue Box]	PROPOSED ENVIRONMENTAL ELEMENTS
[Blue Box]	E2.1 WATER POLLUTION CONTROL MEASURES - SILT TRAPPING AND FLOW CONTROL
[Blue Box]	PROPOSED COMPENSATORY FLOOD STORAGE AREA
[Star]	LISTED MILESTONE
[Green Area]	PROPOSED LANDSCAPE ELEMENTS
[Green Area]	LE1.1 AMENITY GRASS AREAS
[Green Area]	LE1.3 SPECIES RICH GRASSLAND
[Green Area]	LE2.1 WOODLAND
[Green Area]	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)
[Green Area]	LE2.4 LINEAR BELTS OF SHRUBS AND TREES
[Green Area]	LE2.5 SHRUBS WITH INTERMITTENT TREES
[Green Area]	LE2.6 SHRUBS
[Green Area]	LE2.8 NATIVE SPECIES HEDGEROWS
[Green Circle]	LE4.4 NATIVE HEDGEROWS WITH TREES
[Green Circle]	LE5.1 INDIVIDUAL TREES
[Green Circle]	LE5.1.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
[Green Circle]	LE5.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
[Circle]	PROPOSED LIGHTING COLUMN LOCATION - REFER TO LIGHTING DRAWING SERIES FOR FURTHER INFORMATION
[Line]	HIGHWAY BOUNDARY - MCHW VOL. 3 SECT. 1 H3 TIMBER POST AND RAIL
[Line]	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H3 POST AND STRAINED WIRE
[Line]	BADGER PROOF FENCING - H3 TIMBER POST AND RAIL WITH BADGER PROOF MESH
[Line]	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
[Line]	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
[Line]	2m HIGH NOISE AND VISUAL SCREEN
[Line]	3m HIGH NOISE BARRIER
[Line]	BASIN FENCING - MCHW HCD H13 POST AND STRAINED WIRE
[Line]	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
[Line]	FIELD ACCESS GATE - MCHW VOL.3 SECT. 1 H7 STEEL SINGLE FIELD GATE
[Line]	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, OR BOLT.

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	FOR ISSUE	LS	ECoo	BJon
P02	03/03/21	FINAL	SWIt	ECoo	BJon
C01	03/03/21	FINAL	SWIt	ECoo	BJon
P03	04/03/21	FINAL	LS	JMee	BJon
C02	04/03/21	FINAL	LS	JMee	BJon

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

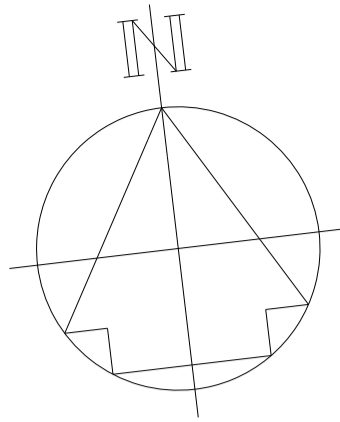
PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
**Environmental Masterplan Sheet 6 of 14
 TR010038/APP/6.8**

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C02

DRAWING NUMBER
HE551489-GTY-ELS-000-DR-LX-30008



Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
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EFH	Water Quality

- NOTES**
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HE551489-GTY-ELS-000-DR-LX-30016
 - FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

DDD BOUNDARY	LE4.4 NATIVE HEDGEROWS WITH TREES
CRISTED HORSESHOE FARM	LE5.1 INDIVIDUAL TREES
EXISTING PUBLIC RIGHT OF WAY	LE5.1.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
EXISTING VEGETATION	LE5.2 BANKS AND OUCHES (RIPARIAN SEEDING MIX)
EXISTING VEGETATION TO BE RETAINED	LE5.2 BANKS AND OUCHES (RIPARIAN SEEDING MIX)
PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LIGHTING COLUMN LOCATION (REFER TO LIGHTING DRAWING SERIES FOR FURTHER INFORMATION)
E2.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/FILTRATION PONDS	HIGHWAY BOUNDARY - MCHW VOL.3 SECT.1 H3 TIMBER POST AND RAIL
PROPOSED COMPENSATORY FLOOD STORAGE AREA	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H17 POST AND STRAINED WIRE
LISTED MILESTONE	BADGER PROOF FENCING - H3 TIMBER POST AND RAIL WITH BADGER-PROOF MESH
PROPOSED LANDSCAPE ELEMENTS	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
LE1.1 AMENITY GRASS AREAS	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
LE1.3 SPECIES RICH GRASSLAND	2m HIGH NOSE AND VISUAL SCREEN
LE2.1 WOODLAND	3m HIGH NOSE BARRIER
LE2.1 WOODLAND (RIPARIAN WOODLAND)	BASH FENCING - MCHW HCD H13 POST AND STRAINED WIRE
LE2.2 SHRUBS WITH INTERMITTENT TREES	ANTI CLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
LE2.4 LINEAR BELTS OF SHRUBS AND TREES	FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
LE2.4 SHRUBS	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, O.B.T.
LE4.3 NATIVE SPECIES HEDGEROWS	

EFA/EFB/EFD/EFE
NOTES: PROPOSED WOODLAND BELTS LOCATED BESIDE THE PROPOSED SCHEME WOULD INTEGRATE IT INTO THE EXISTING LANDSCAPE AND VISUAL CONTEXT AND PROVIDE SCREENING FROM VISUAL RECEPTORS IN THE VICINITY OF THE WOOD LANE JUNCTION

EFA/EFB/EFD/EFE
NOTES: PROPOSED WOODLAND BELTS LOCATED BESIDE THE WOOD LANE JUNCTION PROVIDES SPACE FOR A PROPOSED PEDESTRIAN ROUTE WHILE SCREENING VIEWS FROM ADJACENT RECEPTORS

REV	DATE	REVISION NOTE	ORG	CHK'D	APP'D
P01	26/02/21	FOR ISSUE	LS	ECoo	BJon
P02	03/03/21	FINAL	SWR	ECoo	BJon
C01	03/03/21	FINAL	SWR	ECoo	BJon
P03	04/03/21	FINAL	LS	JMee	BJon
C02	04/03/21	FINAL	LS	JMee	BJon

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
Environmental Masterplan Sheet 7 of 14 TR010038/APP/6.8

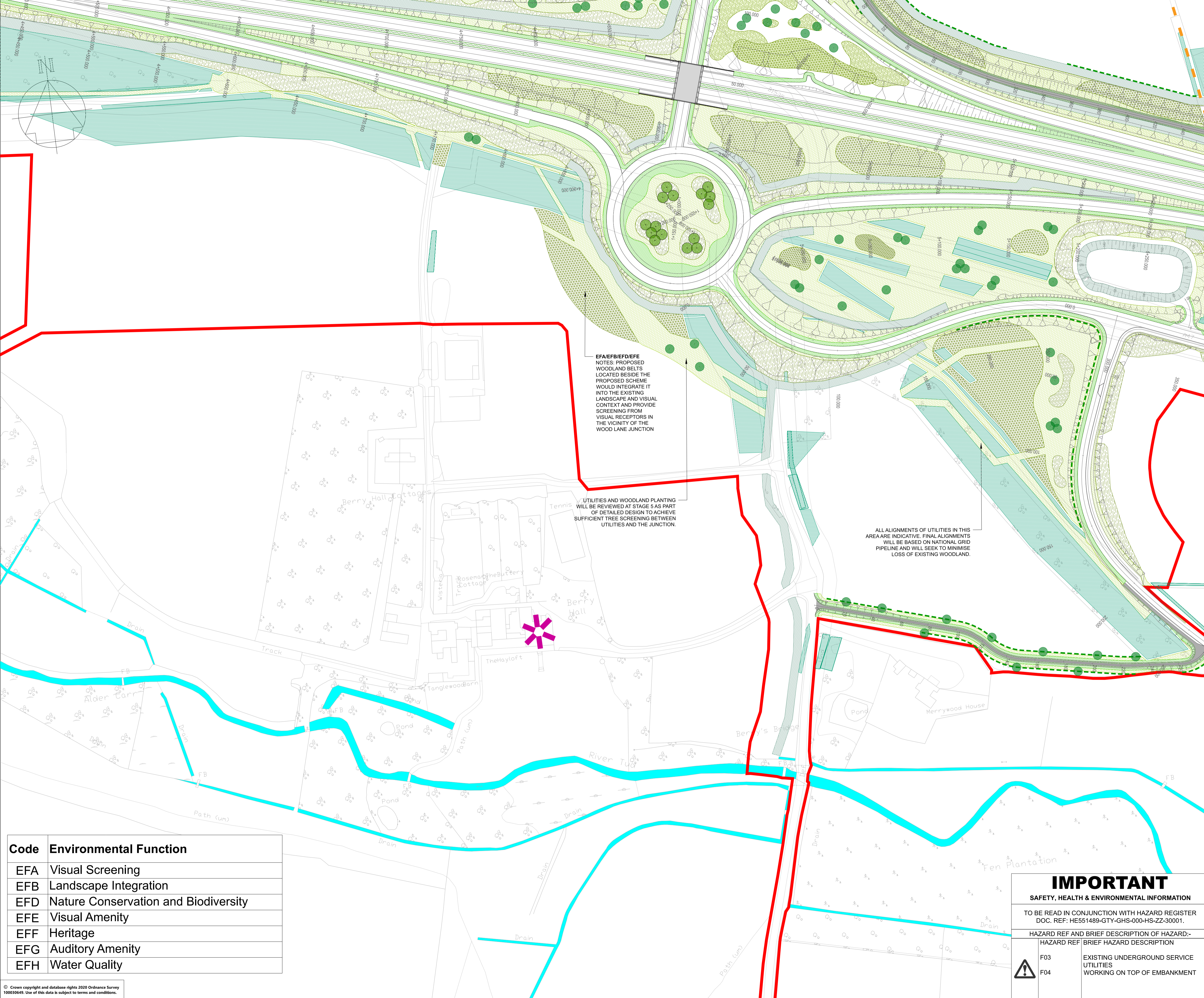
SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C02

DRAWING NUMBER
HE551489-GTY-ELS-000-DR-LX-30009

IMPORTANT
SAFETY, HEALTH & ENVIRONMENTAL INFORMATION
TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.
HAZARD REF AND BRIEF DESCRIPTION OF HAZARD:-
HAZARD REF: BRIEF HAZARD DESCRIPTION

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EFA/EFB/EFD/EFE
 NOTES: PROPOSED WOODLAND BELTS LOCATED BESIDE THE PROPOSED SCHEME WOULD INTEGRATE IT INTO THE EXISTING LANDSCAPE AND VISUAL CONTEXT AND PROVIDE SCREENING FROM VISUAL RECEPTORS IN THE VICINITY OF THE WOOD LANE JUNCTION

UTILITIES AND WOODLAND PLANTING WILL BE REVIEWED AT STAGE 5 AS PART OF DETAILED DESIGN TO ACHIEVE SUFFICIENT TREE SCREENING BETWEEN UTILITIES AND THE JUNCTION.

ALL ALIGNMENTS OF UTILITIES IN THIS AREA ARE INDICATIVE. FINAL ALIGNMENTS WILL BE BASED ON NATIONAL GRID PIPELINE AND WILL SEEK TO MINIMISE LOSS OF EXISTING WOODLAND.

Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

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NOTES

- A MAINTENANCE STRIP OF 1M (MINIMUM) WILL BE REQUIRED ON THE HIGHWAY SIDE OF ALL PROPOSED FENCING. TO BE PLANTED WITH SPECIES RICH GRASSLAND AND NITROGEN FIXING GRASS. WHERE APPROPRIATE, DETAILING WILL BE PROVIDED AT STAGE 5.
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KEY TO SYMBOLS

DCO BOUNDARY	LE4.4 NATIVE HEDGEROWS WITH TREES
ORSTED HORNSEA WIND FARM	LE5.1 INDIVIDUAL TREES
EXISTING PUBLIC RIGHT OF WAY	LE5.1.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
EXISTING VEGETATION	LE5.2 BANKS AND DETCHES (RIPARIAN SEEDING MIX)
EXISTING VEGETATION TO BE RETAINED	PROPOSED ELEMENTS - OTHER
E1.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/FILTRATION PONDS	PROPOSED LIGHTING COLUMN LOCATION (REFER TO LIGHTING DRAWING SERIES FOR FURTHER INFORMATION)
PROPOSED COMPENSATORY FLOOD STORAGE AREA	HIGHWAY BOUNDARY - MCHW VOL.3 SECT.1 H3 TIMBER POST AND RAIL
LISTED MILESTONE	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H3 POST AND STRAINED WIRE
PROPOSED LANDSCAPE ELEMENTS	BADGER PROOF FENCING - H3 TRIMBER POST AND RAIL WITH BADGER PROOF MESH
LE1.1 AMENITY GRASS AREAS	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
LE1.3 SPECIES RICH GRASSLAND	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
LE2.1 WOODLAND	2m HIGH NOSE AND VISUAL SCREEN
LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	3m HIGH NOSE BARRIER
LE2.5 SHRUBS WITH INTERMITTENT TREES	BASKET FENCING - MCHW HCD H13 POST AND STRAINED WIRE
LE2.6 SHRUBS	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
LE4.3 NATIVE SPECIES HEDGEROWS	FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
	4.2m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, 400mm BOLT.

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	FOR ISSUE	LS	ECo	BJon
P02	03/03/21	FINAL	SWR	ECo	BJon
C01	03/03/21	FINAL	SWR	ECo	BJon
P03	04/03/21	FINAL	LS	JMee	BJon
C02	04/03/21	FINAL	LS	JMee	BJon

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
Environmental Masterplan Sheet 8 of 14 TR010038/APP/6.8

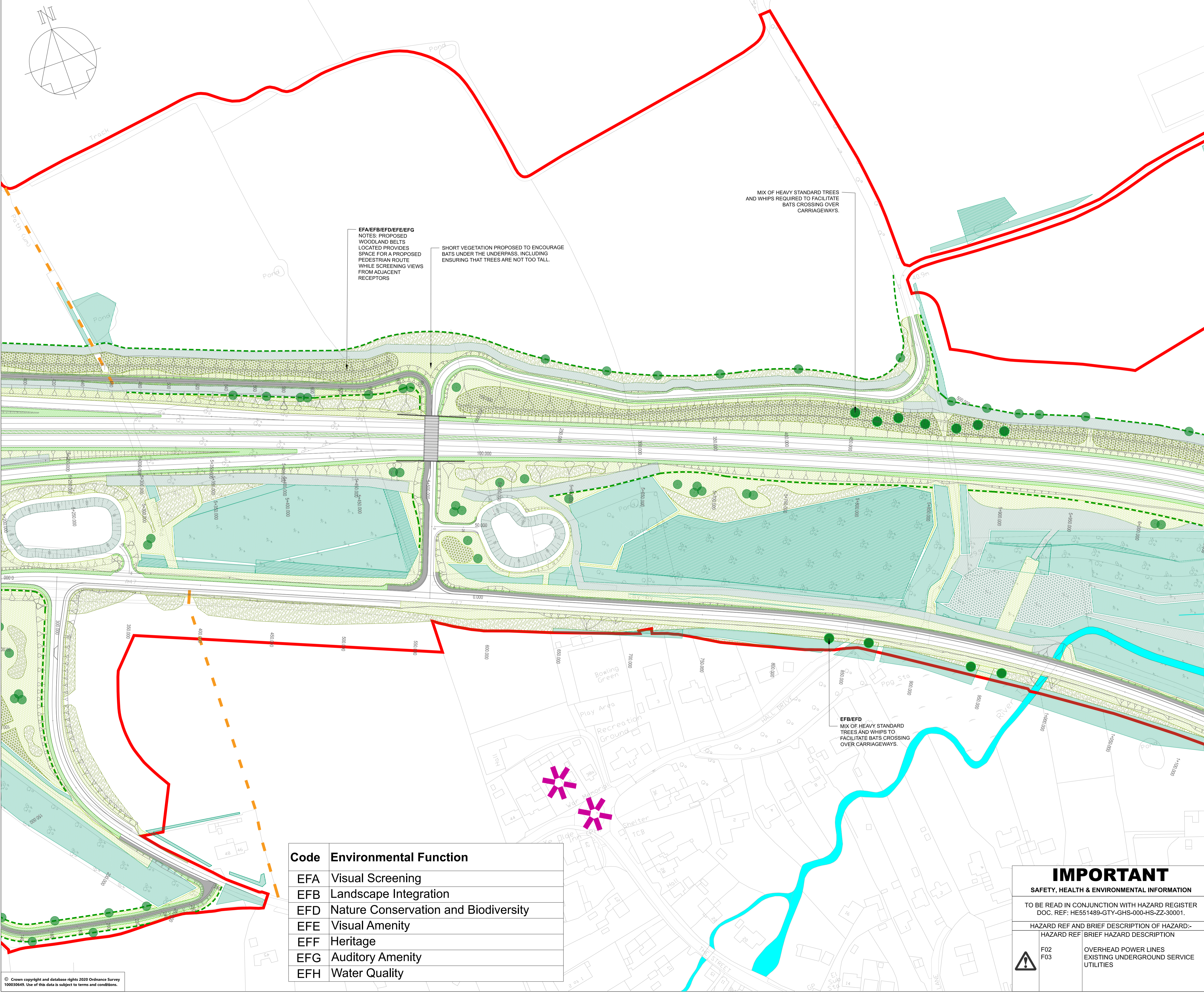
SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	A3	REVISION
A1	1:1250	A3	C02

DRAWING NUMBER
HE551489-GTY-ELS-000-DR-LX-30010

IMPORTANT
 SAFETY, HEALTH & ENVIRONMENTAL INFORMATION
 TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF	BRIEF HAZARD DESCRIPTION
F03	EXISTING UNDERGROUND SERVICE UTILITIES
F04	WORKING ON TOP OF EMBANKMENT



EFA/EFB/efd/efe/efg
 NOTES: PROPOSED WOODLAND BELTS LOCATED PROVIDES SPACE FOR A PROPOSED PEDESTRIAN ROUTE WHILE SCREENING VIEWS FROM ADJACENT RECEPTORS

SHORT VEGETATION PROPOSED TO ENCOURAGE BATS UNDER THE UNDERPASS, INCLUDING ENSURING THAT TREES ARE NOT TOO TALL.

MIX OF HEAVY STANDARD TREES AND WHIPS REQUIRED TO FACILITATE BATS CROSSING OVER CARRIAGEWAYS.

EFB/efd
 MIX OF HEAVY STANDARD TREES AND WHIPS TO FACILITATE BATS CROSSING OVER CARRIAGEWAYS.

Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
efd	Nature Conservation and Biodiversity
efe	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

- NOTES**
- A MAINTENANCE STRIP OF 1M (MINIMUM) WILL BE REQUIRED ON THE HIGHWAY SIDE OF ALL PROPOSED FENCINGS, TO BE PLANTED WITH SPECIES RICH GRASSLAND/AMENITY GRASS, WHERE APPROPRIATE. DETAILING WILL BE PROVIDED AT STAGE 5.
 - ALL AREAS OF PROPOSED WOODLAND, LINEAR BELTS OF SHRUBS AND TREES, SHRUBS WITH INTERMITTENT TREES, AND SHRUBS TO BE PLANTED WITH SPECIES RICH GRASSLAND. ALL AREAS OF RIPARIAN WOODLAND TO BE PLANTED WITH RIPARIAN SEEDING MIX. SEE PLANTING SCHEDULE FOR FURTHER DETAILS.
 - ALL STATS CORRIDORS ARE INDICATIVE ONLY AND WILL BE FINALISED AT THE DETAILED DESIGN STAGE.
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 - ALL DIMENSION IN METRES (m) UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
 HE551489-GTY-ELS-000-DR-LX-30003
 HE551489-GTY-ELS-000-DR-LX-30004
 HE551489-GTY-ELS-000-DR-LX-30005
 HE551489-GTY-ELS-000-DR-LX-30006
 HE551489-GTY-ELS-000-DR-LX-30007
 HE551489-GTY-ELS-000-DR-LX-30008
 HE551489-GTY-ELS-000-DR-LX-30009
 HE551489-GTY-ELS-000-DR-LX-30010
 HE551489-GTY-ELS-000-DR-LX-30012
 HE551489-GTY-ELS-000-DR-LX-30013
 HE551489-GTY-ELS-000-DR-LX-30014
 HE551489-GTY-ELS-000-DR-LX-30015
 HE551489-GTY-ELS-000-DR-LX-30016
 - FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

DCO BOUNDARY	LE4.4 NATIVE HEDGEROWS WITH TREES
ORSTED HORNSEA WIND FARM	LE5.1 INDIVIDUAL TREES
EXISTING PUBLIC RIGHT OF WAY	LE5.1.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
EXISTING VEGETATION	LE5.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
EXISTING VEGETATION TO BE RETAINED	LE5.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED ELEMENTS - OTHER
E1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/FILTRATION POND	PROPOSED LIGHTING COLUMN LOCATION (REFER TO LIGHTING DRAWING SERIES FOR FURTHER INFORMATION)
PROPOSED COMPENSATORY FLOOD STORAGE AREA	HIGHWAY BOUNDARY - MCHW VOL.3 SECT.1 H3 TIMBER POST AND RAIL
LISTED MILESTONE	LOCAL AUTHORITY ACCOMMODATION WORKS FENCING - H3 POST AND STRAINED WIRE
PROPOSED LANDSCAPE ELEMENTS	BADGER PROOF FENCING - H3 TIMBER POST AND RAIL WITH BADGER PROOF MESH
LE1.1 AMENITY GRASS AREAS	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
LE1.3 SPECIES RICH GRASSLAND	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
LE1.1 WOODLAND	2m HIGH NOSE AND VISUAL SCREEN
LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	3m HIGH NOSE BARRIER
LE2.4 LINEAR BELTS OF SHRUBS AND TREES	BASH FENCING - MCHW HCD H13 POST AND STRAINED WIRE
LE2.5 SHRUBS WITH INTERMITTENT TREES	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
LE2.6 SHRUBS	FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
LE4.3 NATIVE SPECIES HEDGEROWS	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, 40 BOLT.

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	FOR ISSUE	LS	ECoO	BJon
P02	03/03/21	FINAL	SWR	ECoO	BJon
C01	03/03/21	FINAL	SWR	ECoO	BJon
P03	04/03/21	FINAL	LS	JMee	BJon
C02	04/03/21	FINAL	LS	JMee	BJon

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE
PCF STAGE 3

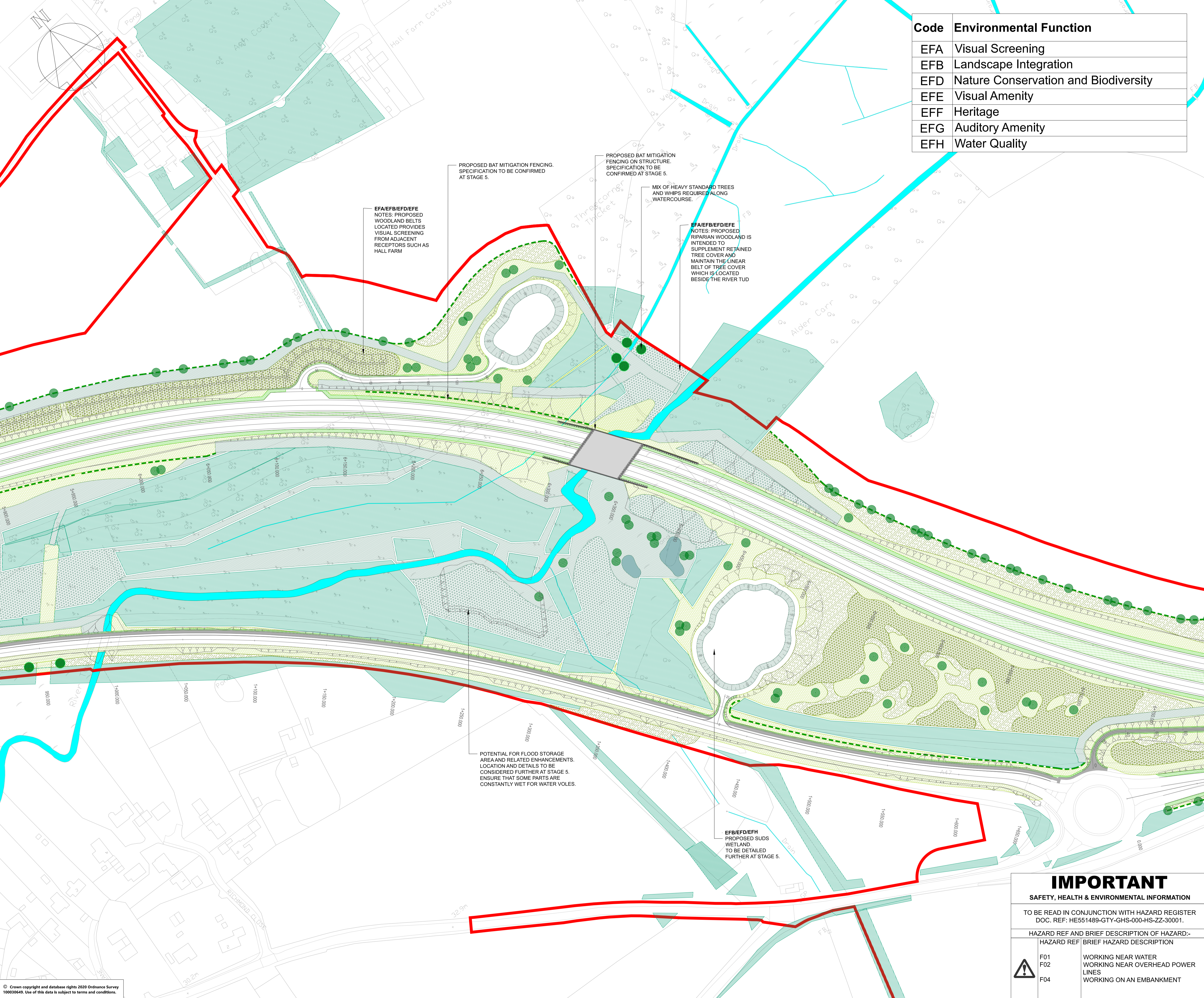
DRAWING TITLE
 Environmental Masterplan Sheet 9 of 14
 TR010038/APP/6.8

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE A1	SCALE 1:1250	STATUS A3	REVISION C02
DRAWING NUMBER HE551489-GTY-ELS-000-DR-LX-30011			

IMPORTANT
 SAFETY, HEALTH & ENVIRONMENTAL INFORMATION
 TO BE READ IN CONJUNCTION WITH HAZARD REGISTER
 DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF AND BRIEF DESCRIPTION OF HAZARD:-
 HAZARD REF: F02 F03
 BRIEF HAZARD DESCRIPTION:
 OVERHEAD POWER LINES
 EXISTING UNDERGROUND SERVICE UTILITIES



Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

- NOTES**
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HE551489-GTY-ELS-000-DR-LX-30003
HE551489-GTY-ELS-000-DR-LX-30004
HE551489-GTY-ELS-000-DR-LX-30005
HE551489-GTY-ELS-000-DR-LX-30006
HE551489-GTY-ELS-000-DR-LX-30007
HE551489-GTY-ELS-000-DR-LX-30008
HE551489-GTY-ELS-000-DR-LX-30009
HE551489-GTY-ELS-000-DR-LX-30010
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HE551489-GTY-ELS-000-DR-LX-30013
HE551489-GTY-ELS-000-DR-LX-30014
HE551489-GTY-ELS-000-DR-LX-30015
HE551489-GTY-ELS-000-DR-LX-30016
FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

DCO BOUNDARY	LE4.4 NATIVE HEDGEROWS WITH TREES
CRISTED HORSESHOE FARM	LE5.1 INDIVIDUAL TREES
EXISTING PUBLIC RIGHT OF WAY	LE5.1.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
EXISTING VEGETATION	LE5.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
EXISTING VEGETATION TO BE RETAINED	PROPOSED ELEMENTS - OTHER
PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LIGHTING COLUMN LOCATION (REFER TO LIGHTING DRAWING SERIES FOR FURTHER INFORMATION)
E2-1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/FILTRATION PONDS	HIGHWAY BOUNDARY - MCHW VOL. 3 SECT.1 H3 TIMBER POST AND RAIL
PROPOSED COMPENSATORY FLOOD STORAGE AREA	LOCAL AUTHORITY ACCOMMODATION WORKS FENCING - H13 POST AND STRAINED WIRE
LISTED MILESTONE	BADGER PROOF FENCING - H3 TIMBER POST AND RAIL WITH BADGER-PROOF MESH
PROPOSED LANDSCAPE ELEMENTS	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
LE1.1 AMENITY GRASS AREAS	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
LE1.3 SPECIES RICH GRASSLAND	2m HIGH NOISE AND VISUAL SCREEN
LE2.1 WOODLAND	3m HIGH NOISE BARRIER
LE2.1 WOODLAND (RIPARIAN WOODLAND)	BASH FENCING - MCHW HCD H13 POST AND STRAINED WIRE
LE2.4 LINEAR BELTS OF SHRUBS AND TREES	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
LE2.5 SHRUBS WITH INTERMITTENT TREES	FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
LE2.6 SHRUBS	4.5m WIDE SINGLE HEAVY DUTY TIMBER PARADE GATE. GATE BOLT.
LE4.3 NATIVE SPECIES HEDGEROWS	

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	FOR ISSUE	LS	ECoo	BJon
P02	03/03/21	FINAL	SWR	ECoo	BJon
C01	03/03/21	FINAL	SWR	ECoo	BJon
P03	04/03/21	FINAL	LS	JMee	BJon
C02	04/03/21	FINAL	LS	JMee	BJon

DESIGNER

SWECO

CONTRACTOR

GallifordTry

CLIENT

highways england

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE

PCF STAGE 3

DRAWING TITLE

Environmental Masterplan Sheet 10 of 14 TR010038/APP/6.8

SUITABILITY

AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C02

DRAWING NUMBER

HE551489-GTY-ELS-000-DR-LX-30012

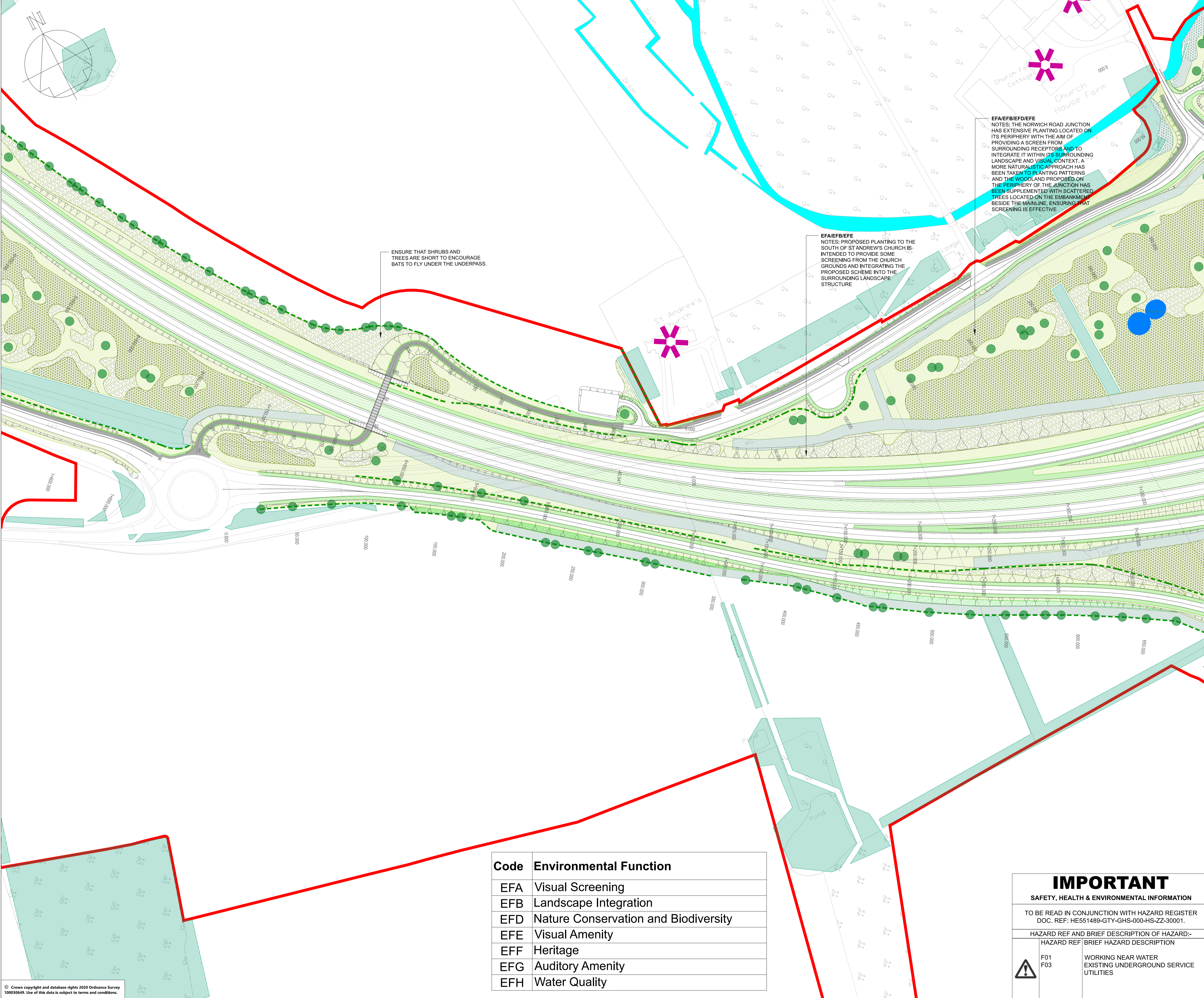
IMPORTANT

SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF	BRIEF HAZARD DESCRIPTION
F01	WORKING NEAR WATER
F02	WORKING NEAR OVERHEAD POWER LINES
F04	WORKING ON AN EMBANKMENT

This drawing should not be relied on or used in circumstances other than those for which it was originally prepared and for which Sweco UK Ltd was commissioned. Sweco UK Ltd accepts no responsibility for this drawing to any party other than the person by whom it was commissioned. This drawing has been prepared on behalf of Galliford Try by Sweco UK Ltd for the titled project or named part thereof and should not be relied upon or used for any other project without an independent check being carried out as to its suitability for the written authority of Galliford Try being obtained. Sweco UK Ltd accepts no responsibility or liability for the consequences of this drawing being used for a purpose other than the purposes for which it was commissioned. Any person using or relying on this drawing for such other purpose agrees, and will by such use or reliance be taken to confirm his/her agreement, to indemnify Sweco UK Ltd for all loss or damage resulting therefrom.



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 HE551489-GTY-ELS-000-DR-LX-30003
 HE551489-GTY-ELS-000-DR-LX-30004
 HE551489-GTY-ELS-000-DR-LX-30005
 HE551489-GTY-ELS-000-DR-LX-30006
 HE551489-GTY-ELS-000-DR-LX-30007
 HE551489-GTY-ELS-000-DR-LX-30008
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 HE551489-GTY-ELS-000-DR-LX-30010
 HE551489-GTY-ELS-000-DR-LX-30011
 HE551489-GTY-ELS-000-DR-LX-30012
 HE551489-GTY-ELS-000-DR-LX-30014
 HE551489-GTY-ELS-000-DR-LX-30015
 HE551489-GTY-ELS-000-DR-LX-30016
 FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

DOO BOUNDARY	LE4.4 NATIVE HEDGEROWS WITH TREES
CRISTED HORNSIA WIND FARM	LE4.1 INDIVIDUAL TREES
EXISTING PUBLIC RIGHT OF WAY	LE4.2 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
EXISTING VEGETATION	LE4.3 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
EXISTING VEGETATION TO BE RETAINED	PROPOSED LIGHTING COLUMN LOCATION (REFER TO LIGHTING DRAWING SERIES FOR FURTHER INFORMATION)
PROPOSED ENVIRONMENTAL ELEMENTS	HIGHWAY BOUNDARY - MCHW VOL. 3 SECT.1 H3 TIMBER POST AND RAIL
ALL TRENCH PROTECTIVE MEASURES - ATTENUATION/PROLIFERATION POND	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H3 POST AND STRAINED WIRE
PROPOSED COMPENSATORY FLOOD STORAGE AREA	BADGER PROOF FENCING - H3 TIMBER POST AND RAIL WITH BADGER PROOF MESH
LISTED MILESTONE	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
PROPOSED LANDSCAPE ELEMENTS	SPECIFICATION TO BE CONFIRMED
LE1.1 AMENITY GRASS AREAS	2m HIGH NOSE AND VISUAL SCREEN
LE1.2 WOODLAND	3m HIGH NOSE BARRIER
LE1.3 SPECIES RICH GRASSLAND	BASIN FENCING - MCHW HCD H13 POST AND STRAINED WIRE
LE1.4 WOODLAND RW (RIPARIAN WOODLAND)	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
LE2.4 LINEAR BELTS OF SHRUBS AND TREES	FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
LE2.5 SHRUBS WITH INTERMITTENT TREES	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, GAT BOLT.
LE2.6 SHRUBS	
LE2.7 SHRUBS	
LE3.3 NATIVE SPECIES HEDGEROWS	

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	FOR ISSUE	LS	ECo0	BJon
P02	03/03/21	FINAL	SWII	ECo0	BJon
C01	03/03/21	FINAL	SWII	ECo0	BJon
P03	04/03/21	FINAL	LS	JMee	BJon
C02	04/03/21	FINAL	LS	JMee	BJon

DESIGNER

SWECO

CONTRACTOR

GallifordTry

CLIENT

highways england

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE

PCF STAGE 3

DRAWING TITLE

Environmental Masterplan Sheet 11 of 14 TR010038/APP/6.8

SUITABILITY

AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C02

DRAWING NUMBER

HE551489-GTY-ELS-000-DR-LX-30013

Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

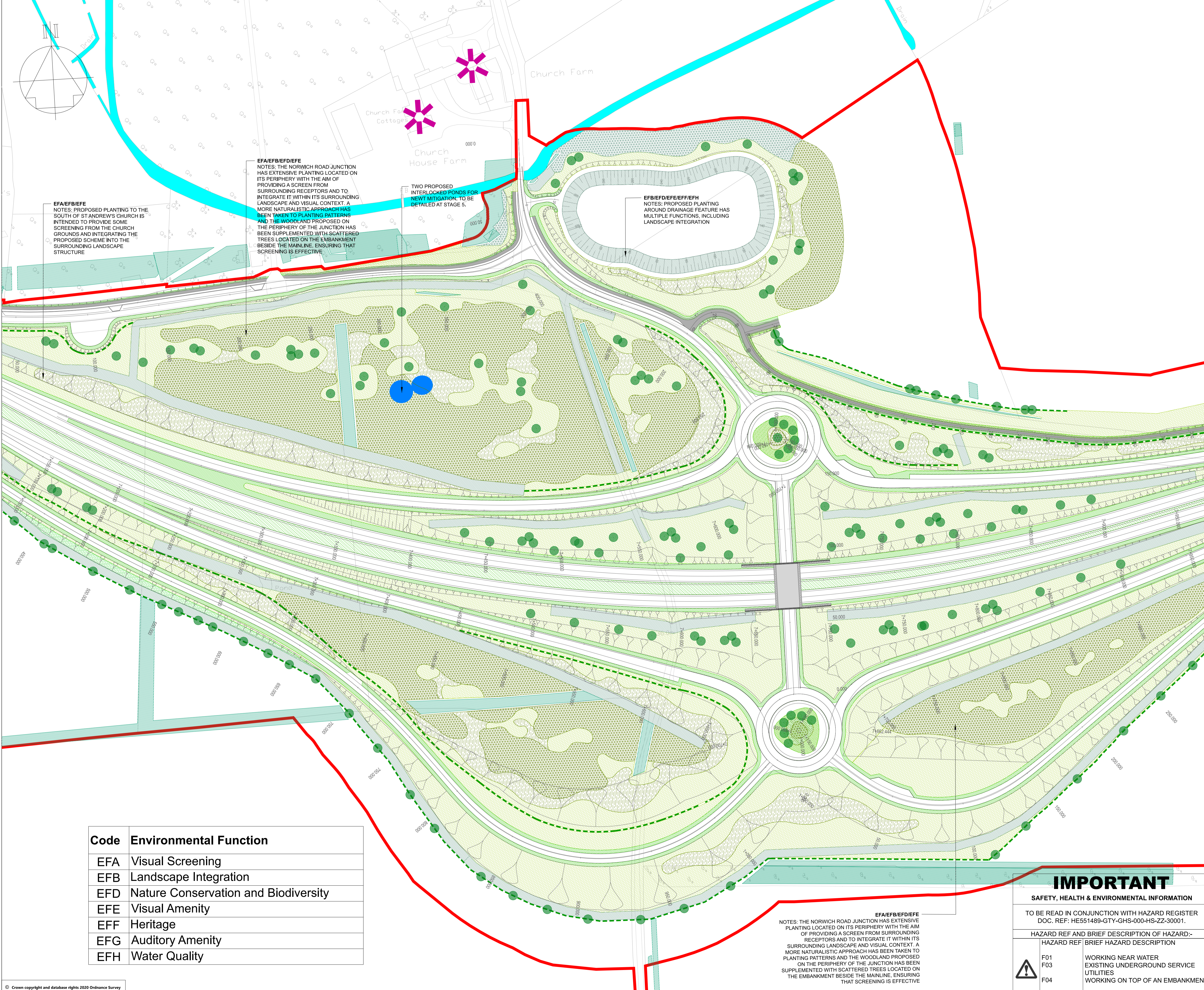
IMPORTANT

SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF	BRIEF HAZARD DESCRIPTION
F01 F03	WORKING NEAR WATER EXISTING UNDERGROUND SERVICE UTILITIES

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 3. ALL STATUS CORRIDORS ARE INDICATIVE ONLY AND WILL BE FINALISED AT THE DETAILED DESIGN STAGE.
 4. THIS DRAWING SHALL ONLY BE USED FOR THE DESIGN ELEMENT STATED IN THE DRAWING TITLE.
 5. ALL DIMENSION IN METRES (m) UNLESS OTHERWISE STATED.
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 HE551489-GTY-ELS-000-DR-LX-30003
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 HE551489-GTY-ELS-000-DR-LX-30016
 8. FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

<ul style="list-style-type: none"> DCD BOUNDARY EXISTED HORNSWING FARM EXISTING PUBLIC RIGHT OF WAY EXISTING VEGETATION EXISTING VEGETATION TO BE RETAINED PROPOSED ENVIRONMENTAL ELEMENTS <ul style="list-style-type: none"> E1.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/RETENTION POND PROPOSED COMPENSATORY FLOOD STORAGE AREA LISTED MILESTONE PROPOSED LANDSCAPE ELEMENTS <ul style="list-style-type: none"> LE.1 AMENITY GRASS AREAS LE.3 SPECIES RICH GRASSLAND LE.2 WOODLAND LE.2.1 WOODLAND RIV (RIPARIAN WOODLAND) LE.2.4 LINEAR BELTS OF SHRUBS AND TREES LE.2.5 SHRUBS WITH INTERMITTENT TREES LE.2.3 SHRUBS LE.4.3 NATIVE SPECIES HEDGEROWS 	<ul style="list-style-type: none"> LE.4.4 NATIVE HEDGEROWS WITH TREES LE.5.1 INDIVIDUAL TREES LE.5.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS LE.2.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX) PROPOSED ELEMENTS - OTHER <ul style="list-style-type: none"> PROPOSED LIGHTING COLUMN LOCATION (REFER TO LIGHTING DRAWING SERIES FOR FURTHER INFORMATION) HIGHWAY BOUNDARY - MCHW VOL.3 SECT.1 H3 TIMBER POST AND RAIL LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H3 POST AND STRAINED WIRE BADGER PROOF FENCING - H3 TIMBER POST AND RAIL WITH BADGER PROOF MESH BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED 2m HIGH NOISE AND VISUAL SCREEN 3m HIGH NOISE BARRIER BASIN FENCING - MCHW HCD H13 POST AND STRAINED WIRE ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE 4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, O4 BOLT.
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P03	04/03/21	FINAL	LS	JMee	BJon
C02	04/03/21	FINAL	LS	JMee	BJon

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
**Environmental Masterplan Sheet 12 of 14
 TR010038/APP/6.8**

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C02

DRAWING NUMBER
HE551489-GTY-ELS-000-DR-LX-30014

Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

IMPORTANT

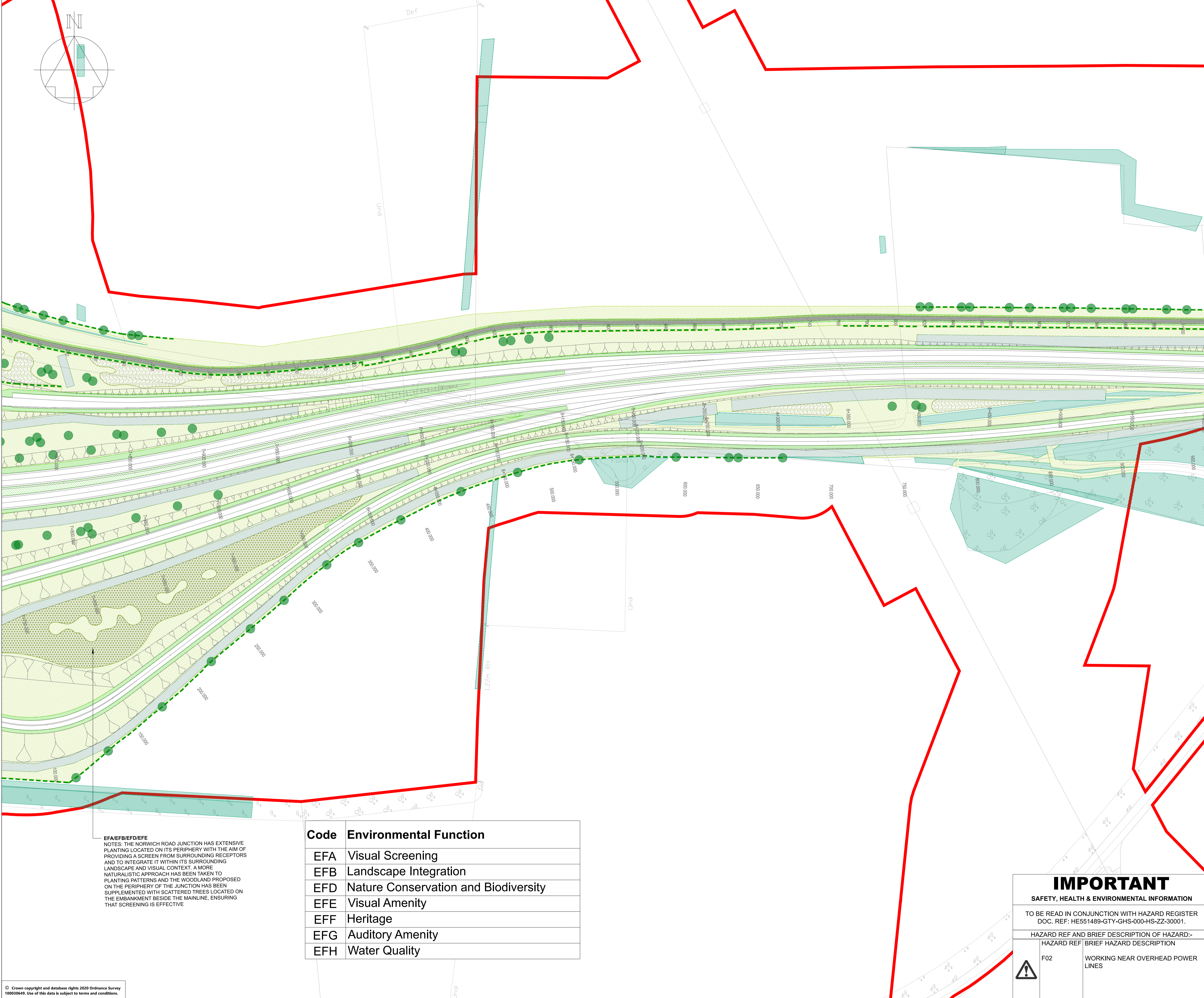
SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF	BRIEF DESCRIPTION OF HAZARD:-
HAZARD REF	BRIEF HAZARD DESCRIPTION
F01	WORKING NEAR WATER
F03	EXISTING UNDERGROUND SERVICE UTILITIES
F04	WORKING ON TOP OF AN EMBANKMENT

EFA/EFB/EFDE/EFEE
 NOTES: THE NORWICH ROAD JUNCTION HAS EXTENSIVE PLANTING LOCATED ON ITS PERIPHERY WITH THE AIM OF PROVIDING A SCREEN FROM SURROUNDING RECEPTORS AND TO INTEGRATE IT WITH ITS SURROUNDING LANDSCAPE AND VISUAL CONTEXT. A MORE NATURALISTIC APPROACH HAS BEEN TAKEN TO PLANTING PATTERNS AND THE WOODLAND PROPOSED ON THE PERIPHERY OF THE JUNCTION HAS BEEN SUPPLEMENTED WITH SCATTERED TREES LOCATED ON THE EMBANKMENT BESIDE THE MAINLINE, ENSURING THAT SCREENING IS EFFECTIVE

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- NOTES**
1. A MAINTENANCE STRIP OF 1M (MINIMUM) WILL BE REQUIRED ON THE HIGHWAY SIDE OF ALL PROPOSED FENCING. TO BE PLANTED WITH SPECIES RICH GRASSLAND/AMENITY GRASS, WHERE APPROPRIATE. DETAILING WILL BE PROVIDED AT STAGE 5.
 2. ALL AREAS OF PROPOSED WOODLAND, LINEAR BELTS OF SHRUBS AND TREES, SHRUBS WITH INTERMITTENT TREES, AND SHRUBS TO BE PLANTED WITH SPECIES RICH GRASSLAND. ALL AREAS OF RIPARIAN WOODLAND TO BE PLANTED WITH RIPARIAN SEEDING MIX. SEE PLANTING SCHEDULE FOR FURTHER DETAILS.
 3. ALL STATS CORRIDORS ARE INDICATIVE ONLY AND WILL BE FINALISED AT THE DETAILED DESIGN STAGE.
 4. THIS DRAWING SHALL ONLY BE USED FOR THE DESIGN ELEMENT STATED IN THE DRAWING TITLE.
 5. ALL DIMENSION IN METRES (m) UNLESS OTHERWISE STATED.
 6. DO NOT SCALE FROM THIS DRAWING.
 7. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
 HE551489-GTY-ELS-000-DR-LX-30003
 HE551489-GTY-ELS-000-DR-LX-30004
 HE551489-GTY-ELS-000-DR-LX-30005
 HE551489-GTY-ELS-000-DR-LX-30006
 HE551489-GTY-ELS-000-DR-LX-30007
 HE551489-GTY-ELS-000-DR-LX-30008
 HE551489-GTY-ELS-000-DR-LX-30009
 HE551489-GTY-ELS-000-DR-LX-30010
 HE551489-GTY-ELS-000-DR-LX-30011
 HE551489-GTY-ELS-000-DR-LX-30012
 HE551489-GTY-ELS-000-DR-LX-30013
 HE551489-GTY-ELS-000-DR-LX-30014
 HE551489-GTY-ELS-000-DR-LX-30016
 8. FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

DCO BOUNDARY	LE4.4 NATIVE HEDGEROWS WITH TREES
ORSTED HORSEWEAVING FARM	LE5.1 INDIVIDUAL TREES
EXISTING PUBLIC RIGHT OF WAY	LE4.1 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
EXISTING VEGETATION	LE4.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
EXISTING VEGETATION TO BE RETAINED	PROPOSED ELEMENTS - OTHER
PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LIGHTING COLUMN LOCATION (REFER TO LIGHTING DRAWING SERIES FOR FURTHER INFORMATION)
E21 WATER POLLUTION CONTROL MEASURES - ATTENUATION/INFILTRATION POND	HIGHWAY BOUNDARY - MCHW VOL.3 SECT.1 H3 TIMBER POST AND RAIL
PROPOSED COMPENSATORY FLOOD STORAGE AREA	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H13 POST AND STRAINED WIRE
LISTED MILESTONE	BADGER PROOF FENCING - H3 TIMBER POST AND RAIL WITH BADGER PROOF MESH
PROPOSED LANDSCAPE ELEMENTS	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
LE1.1 AMENITY GRASS AREAS	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
LE1.3 SPECIES RICH GRASSLAND	2m HIGH NOISE AND VISUAL SCREEN
LE2.1 WOODLAND	3m HIGH NOISE BARRIER
LE2.1 WOODLAND HW (RIPARIAN WOODLAND)	BASH FENCING - MCHW HCD H13 POST AND STRAINED WIRE
LE2.4 LINEAR BELTS OF SHRUBS AND TREES	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
LE2.5 SHRUBS WITH INTERMITTENT TREES	FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
LE2.6 SHRUBS	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE OR BOLT.
LE4.3 NATIVE SPECIES HEDGEROWS	

REV	DATE	REVISION NOTE	ORG	CHK'D	APP'D
P01	26/02/21	FOR ISSUE	LS	ECo0	BJon
P02	03/03/21	FINAL	SWRI	ECo0	BJon
C01	03/03/21	FINAL	SWRI	ECo0	BJon
P03	04/03/21	FINAL	LS	JMee	BJon
C02	04/03/21	FINAL	LS	JMee	BJon

DESIGNER

SWECO

CONTRACTOR

GallifordTry

CLIENT

highways england

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE

PCF STAGE 3

DRAWING TITLE

Environmental Masterplan Sheet 13 of 14 TR010038/APP/6.8

SUITABILITY

AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C02

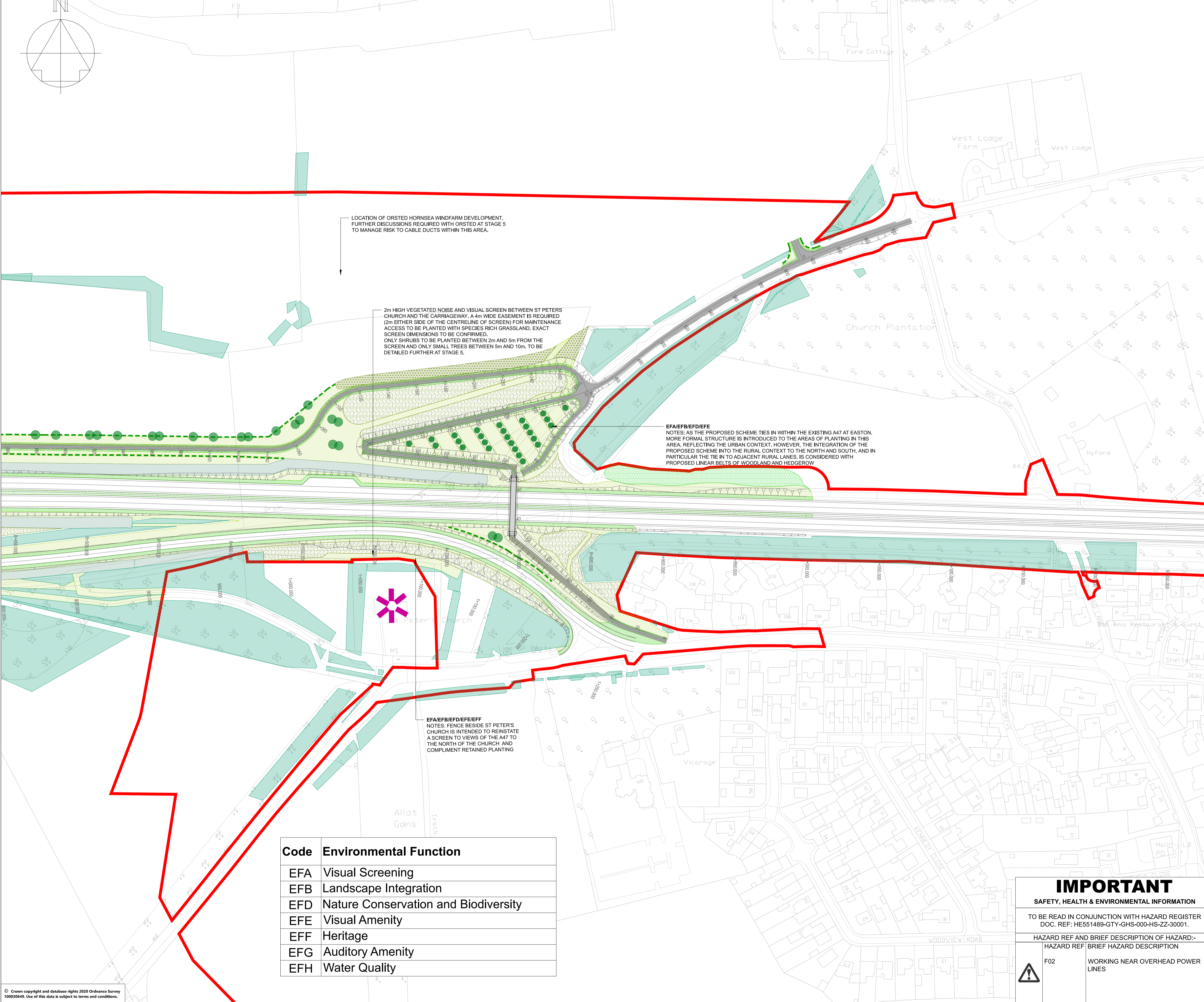
DRAWING NUMBER

HE551489-GTY-ELS-000-DR-LX-30015

Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

EFA/EFB/EFD/EFE
 NOTES: THE NORWICH ROAD JUNCTION HAS EXTENSIVE PLANTING LOCATED ON ITS PERIPHERY WITH THE AIM OF PROVIDING A SCREEN FROM SURROUNDING RECEPTORS AND TO INTEGRATE IT WITH ITS SURROUNDING LANDSCAPE AND VISUAL CONTEXT. A MORE NATURALISTIC APPROACH HAS BEEN TAKEN TO PLANTING PATTERNS AND THE WOODLAND PROPOSED ON THE PERIPHERY OF THE JUNCTION HAS BEEN SUPPLEMENTED WITH SCATTERED TREES LOCATED ON THE EMBANKMENT BESIDE THE MAINLINE, ENSURING THAT SCREENING IS EFFECTIVE.

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 HAZARD REF AND BRIEF DESCRIPTION OF HAZARD:-
 F02 WORKING NEAR OVERHEAD POWER LINES



LOCATION OF ORSTED HORNSEA WINDFARM DEVELOPMENT. FURTHER DISCUSSIONS REQUIRED WITH ORSTED AT STAGE 5 TO MANAGE RISK TO CABLE DUCTS WITHIN THIS AREA.

2m HIGH VEGETATED NOISE AND VISUAL SCREEN BETWEEN ST PETERS CHURCH AND THE CARRIAGEWAY. A 4m WIDE EASEMENT IS REQUIRED (2m EITHER SIDE OF THE CENTRELINE OF SCREEN) FOR MAINTENANCE ACCESS TO BE PLANTED WITH SPECIES RICH GRASSLAND. EXACT SCREEN DIMENSIONS TO BE CONFIRMED. ONLY SHRUBS TO BE PLANTED BETWEEN 2m AND 5m FROM THE SCREEN AND ONLY SMALL TREES BETWEEN 5m AND 10m. TO BE DETAILED FURTHER AT STAGE 5.

EFA/EFB/efd/efe
NOTES: AS THE PROPOSED SCHEME TIES IN WITHIN THE EXISTING A47 AT EASTON, MORE FORMAL STRUCTURE IS INTRODUCED TO THE AREAS OF PLANTING IN THIS AREA, REFLECTING THE URBAN CONTEXT. HOWEVER, THE INTEGRATION OF THE PROPOSED SCHEME INTO THE RURAL CONTEXT TO THE NORTH AND SOUTH, AND IN PARTICULAR THE TIE IN TO ADJACENT RURAL LANES, IS CONSIDERED WITH PROPOSED LINEAR BELTS OF WOODLAND AND HEDGEROW.

EFA/EFB/efd/efe/eff
NOTES: FENCE BESIDE ST PETER'S CHURCH IS INTENDED TO REINSTATE A SCREEN TO VIEWS OF THE A47 TO THE NORTH OF THE CHURCH AND COMPLIMENT RETAINED PLANTING

Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
efd	Nature Conservation and Biodiversity
efe	Visual Amenity
eff	Heritage
EFG	Auditory Amenity
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KEY TO SYMBOLS

DCO BOUNDARY	ORSTED HORNSEA WIND FARM	EXISTING PUBLIC RIGHT OF WAY	EXISTING VEGETATION	EXISTING VEGETATION TO BE RETAINED	PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LANDSCAPE ELEMENTS	LE4.4 NATIVE HEDGEROWS WITH TREES	LE4.1 INDIVIDUAL TREES	LE4.2 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS	LE4.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)	PROPOSED ELEMENTS - OTHER								
LE1.1 AMENITY GRASS AREAS	LE1.3 SPECIES RICH GRASSLAND	LE2.1 WOODLAND	LE2.1 WOODLAND RW (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	PROPOSED LIGHTING COLUMN LOCATION (REFER TO LIGHTING DRAWING SERIES FOR FURTHER INFORMATION)	HIGHWAY BOUNDARY - MCHW VOL. 3 SECT. 1 H3 TIMBER POST AND RAIL	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H3 POST AND STRAINED WIRE	BADGER PROOF FENCING - H3 TIMBER POST AND RAIL WITH BADGER PROOF MESH	S&T MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED	S&T MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED	2m HIGH NOISE AND VISUAL SCREEN	3m HIGH NOISE BARRIER	BASIN FENCING - MCHW HCD H13 POST AND STRAINED WIRE	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE	FIELD ACCESS GATE - MCHW VOL.3 SECT. 1 H7 STEEL SINGLE FIELD GATE	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, GAT BOLT.

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DRAWING TITLE
Environmental Masterplan Sheet 14 of 14 TR010038/APP/6.8

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

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