

ENVIRONMENTAL MASTERPLAN - SCHEME LAYOUT

BOUNDARIES

- ORDER LIMITS
- LAND SURROUNDED BY, BUT NOT INCLUDED WITHIN THE ORDER LIMITS
- LOCAL AUTHORITY BOUNDARY

HIGHWAYS

- NEW OR REALIGNED PUBLIC HIGHWAY
- NEW OR REALIGNED PRIVATE ACCESS
- EXISTING PUBLIC RIGHTS OF WAY
- EXISTING PUBLIC RIGHTS OF WAY - STOPPED UP
- NEW/REALIGNED PUBLIC RIGHT OF WAY
- PROPOSED PUBLIC RIGHT OF WAY IN VERGE
- VARIABLE MESSAGE SIGN

DRAINAGE

- EXISTING WATERCOURSE
- REALIGNED WATERCOURSE
- RETAINED / PROPOSED HEADWALL
- PROPOSED DITCH
- WATER FLOW DIRECTION
- PROPOSED FLOOD STORAGE AREA

ENVIRONMENTAL FUNCTIONS

- EFA - VISUAL SCREENING
- EFB - LANDSCAPE INTEGRATION
- EFC - ENHANCING THE BUILT ENVIRONMENT
- EFD - NATURE CONSERVATION AND BIODIVERSITY
- EFE - VISUAL AMENITY
- EFG - AUDITORY AMENITY
- EFH - WATER QUALITY

PROPOSED - ENVIRONMENTAL ELEMENTS

- E1.3 NOISE-REDUCING EARTHWORKS
- E3.1 PROTECTED SPECIES
- E3.2 ECOLOGICAL PROTECTION MEASURES
- E4.1 INJURIOUS WEEDS

ENVIRONMENT & LANDSCAPE

- EXISTING**
 - EXISTING WOODLAND (NATIONAL FOREST INVENTORY)
 - EXISTING HEDGE/BELT OF TREES
 - OTHER EXISTING VEGETATION
- PROPOSED - LANDSCAPE ELEMENTS**
 - EXISTING VEGETATION TO BE REMOVED
 - LE1.1 AMENITY GRASS
 - LE1.3 SPECIES RICH (OR CONSERVATION) GRASSLAND
 - LE1.6 OPEN GRASSLAND
 - LE2.1 WOODLAND
 - LE2.2 WOODLAND EDGE
 - LE2.4 LINEAR BELT OF SHRUBS AND TREES
 - LE2.5 SHRUBS WITH INTERMITTENT TREES
 - LE2.6 SHRUBS
 - LE2.8 SCRUB
 - LE4.3 NATIVE SPECIES HEDGEROWS
 - LE4.4 NATIVE HEDGEROW WITH TREES
 - LE5.1 INDIVIDUAL TREES
 - LE6.2 BANKS AND DITCHES
 - LE6.3 REED BEDS
 - LE6.4 MARSH AND WET GRASSLAND

PROPOSED - SPECIFIC E3.2 ECOLOGICAL PROTECTION MEASURES

- CULVERTS HAVE BEEN DESIGNED TO REDUCE THEIR IMPACT ON WATERCOURSES BY ENSURING CONVEYANCE OF FLOWS AND PROVISION OF A NATURALISED BED (MIN. 150MM SUNKEN INVERT, INCREASED TO 300MM WHERE POSSIBLE) AND MAMMAL LEDGES WHERE APPLICABLE. (EFD)
- WATERCOURSE REACH IDENTIFIED FOR POTENTIAL ENVIRONMENTAL ENHANCEMENT (EFD & EFH)
- MAMMAL FENCING (EFD)
- BAT FENCING (EFD)
- PROTECTED SPECIES (EFD)

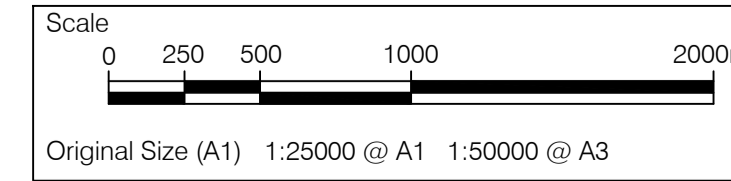
ENGINEERING & CONSTRUCTION

- 22.00 EXISTING GROUND CONTOURS (AT 2M INTERVALS)
- CONSTANT CUTTING
- CONSTANT EMBANKMENT
- VARIABLE CUTTING
- VARIABLE EMBANKMENT
- PROPOSED MULTIPLE PURPOSE CONSTRUCTION AREA
- PROPOSED SOIL STORAGE AREA
- PROPOSED SITE COMPOUND AREA
- PROPOSED BORROW LAND AREA
- PROPOSED - SPECIFIC E1.1 NOISE-REDUCING SURFACE**
 - LOW NOISE SURFACING IS TO BE PROVIDED ON ALL NEW ROADS PROPOSED AS PART OF THE SCHEME (EFG).

NOTE

- THESE DRAWING ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTATION, IN PARTICULAR THE GENERAL ARRANGEMENT PLANS [TR010044/APP/2,4].
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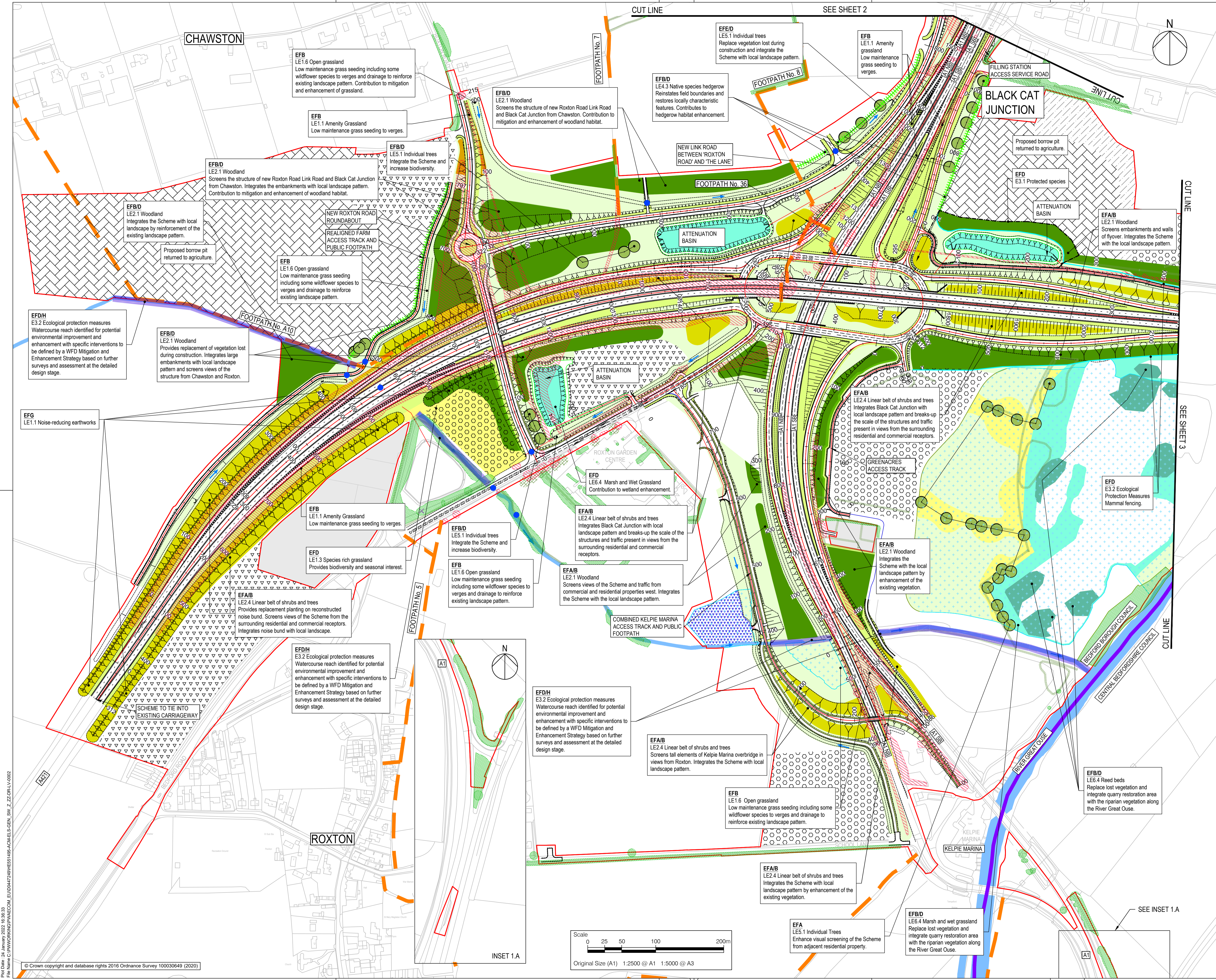
Purpose of issue				
DCO EXAMINATION				
Client National Highways		Working on behalf of 		
Development Consent Order Number TR010044				
Project Title A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS				
Drawing Title ENVIRONMENTAL MASTERPLAN KEY PLAN				
Designed EJ	Drawn EJ	Checked MKM	Approved MKM	Date 24/01/22
Internal Project No. 60541541		Subsidiarity D9		
Scale @ A1		Zone General		
Drawing Number HE551495 -ACM -ELS -				
HE551495 -ACM		HE551495 -ELS -		
GEN_SW_Z_ZZ		DR-LV-0001		
Location		I Type I Role I Number		



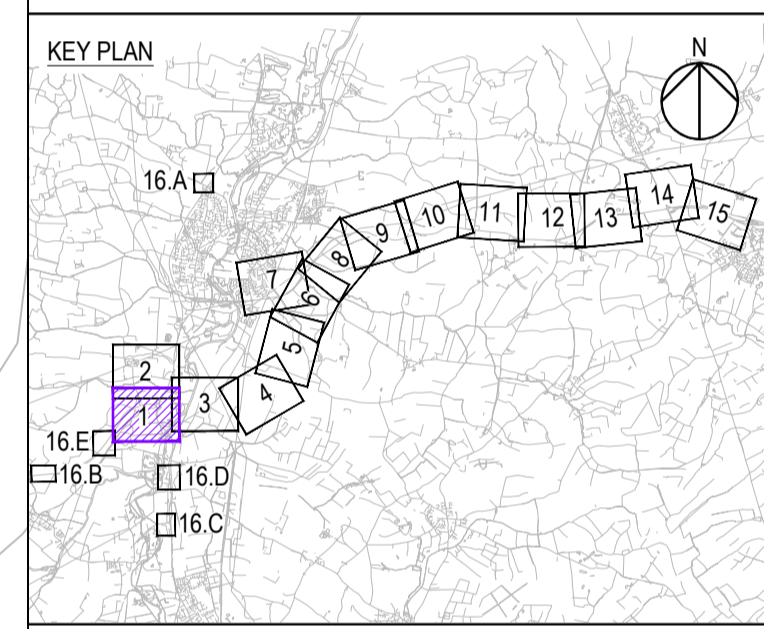
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By	Check	Date	Suffix	
EJ	MKM	24/01/22	P04	

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 Plot Date: 24 January 2022 15:23:25
 File Name: C:\Work\DCO\TR010044\HE551495-ACM-ELS-GEN_SW_Z_ZZ-DRLV-0001

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Revision Details			
No.	Description	By	Date
EJ	NH logo update	24/01/22	P03
By	Check		

DCO EXAMINATION

Client: National Highways
 Working on behalf of: national highways

Development Consent Order Number: TR010044

Project Title: **A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS**

Drawing Title: **ENVIRONMENTAL MASTERPLAN SHEET 1 OF 16**

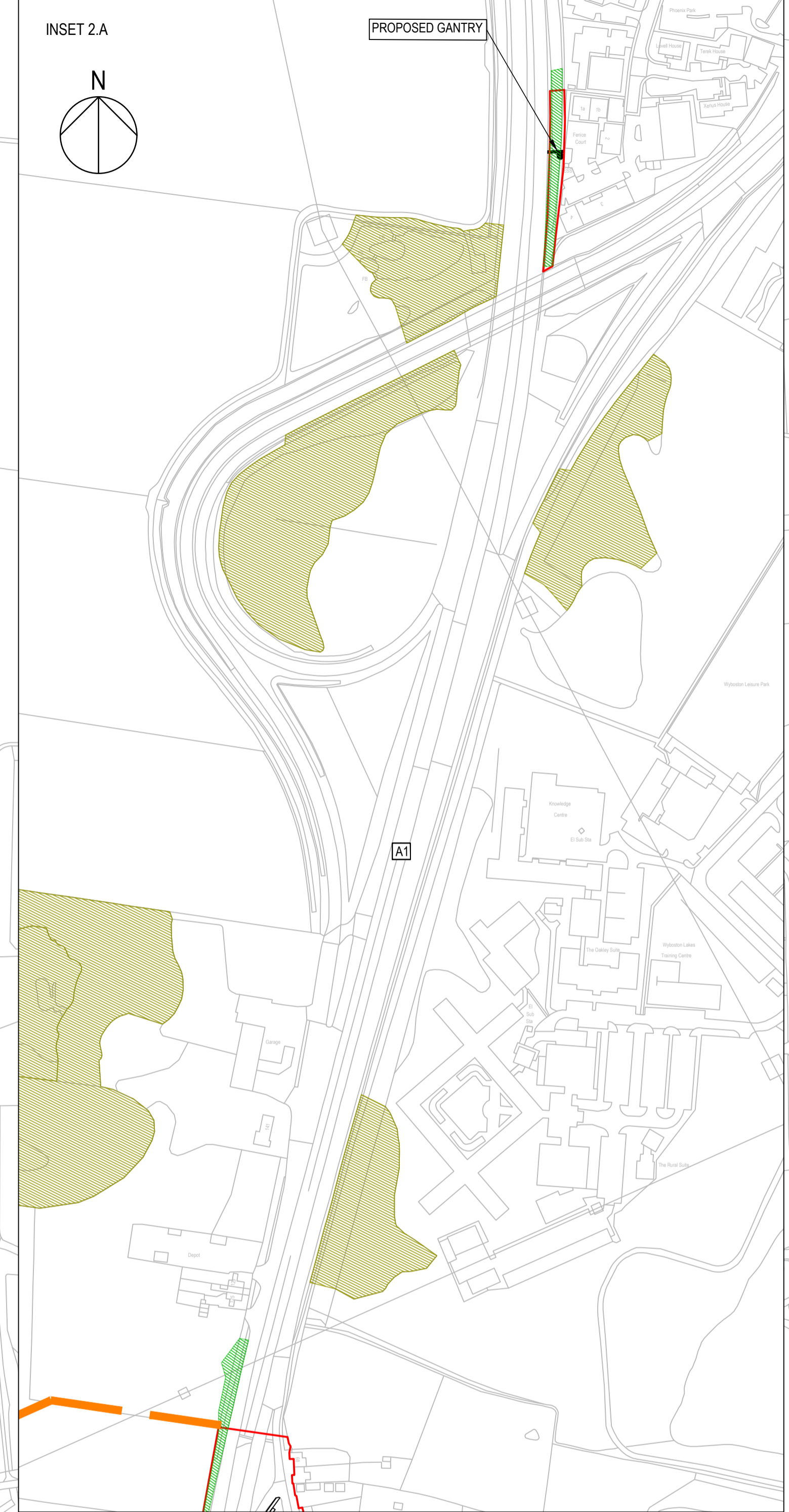
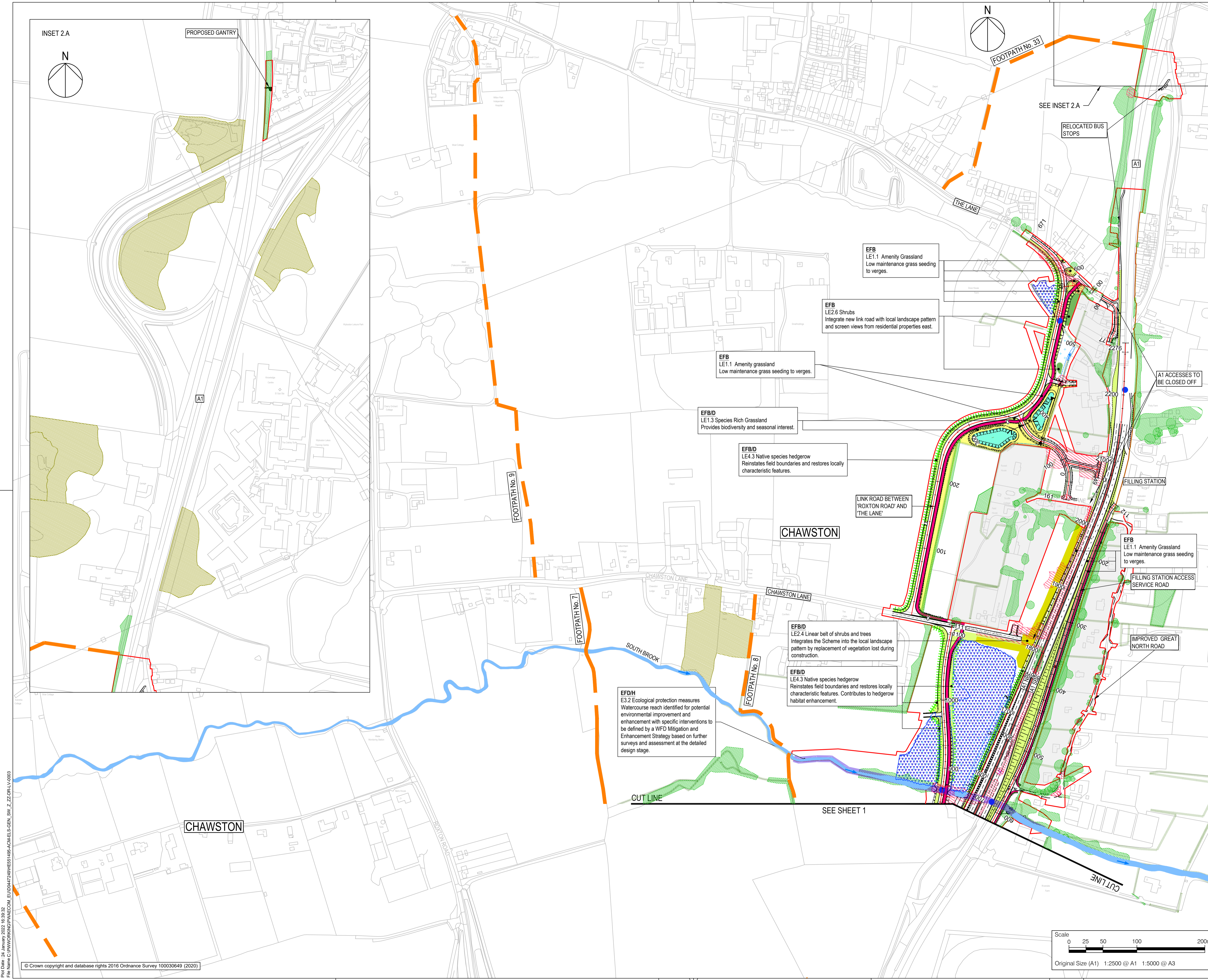
Designed	Drawn	Checked	Approved	Date
EJ	EJ	MKM	MKM	24/01/22

Internal Project No: 60541541
 Scale @ A1: 1:2500
 Subtitle: D9
 Zone: General

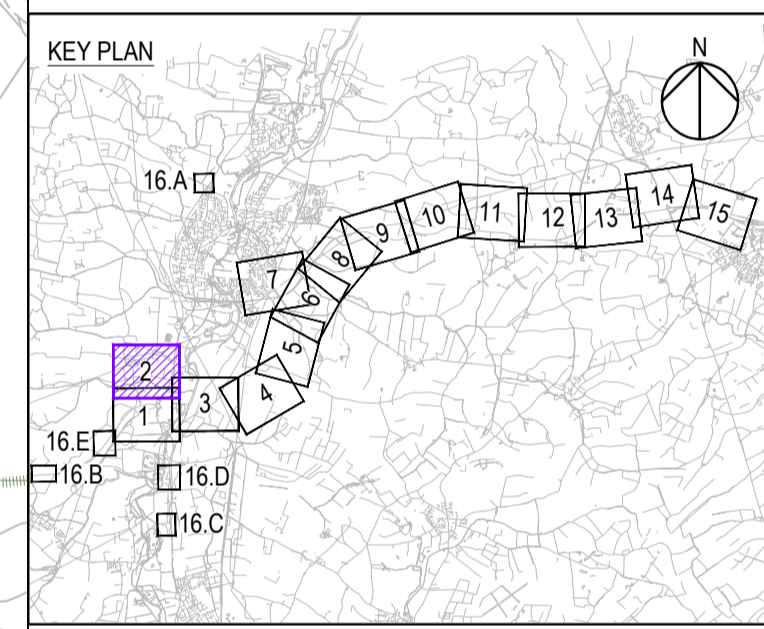
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Drawing Number: HE551495 - ACM - ELS - GEN_SW_Z_Z - DR - LV - 0002
 Location: P03
 I Type: I Role: I Number

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 Plot Date: 24 January 2022 15:28:25
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NH logo update	EJ	24/01/22	P03
Revision Details	By	Date	Suffix
	Check		

Purpose of issue
DCO EXAMINATION

Client
National Highways
Woodlands
Manton Lane
Bedford
MK41 7LW

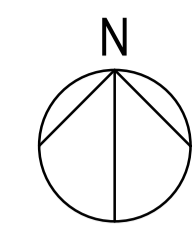
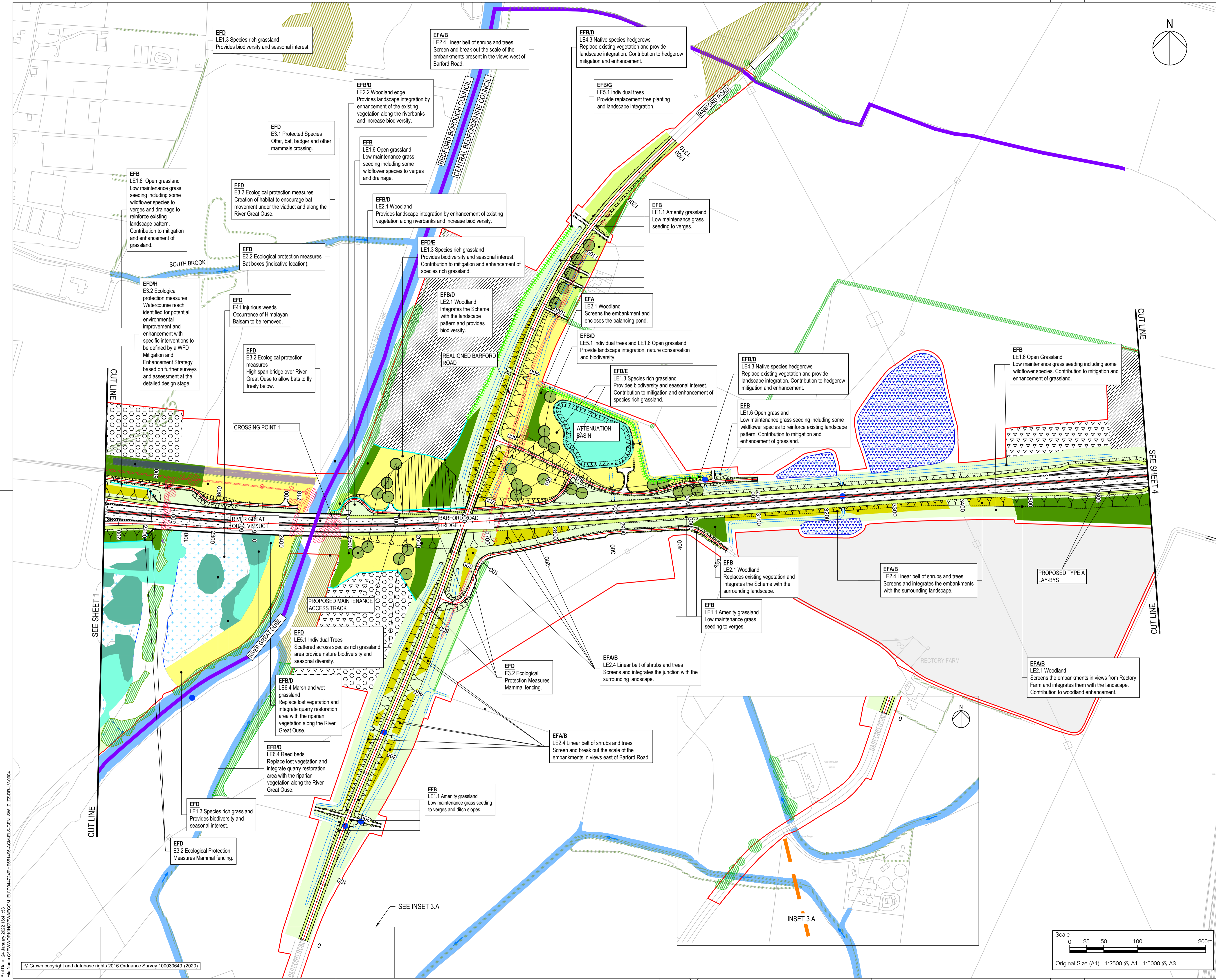
Working on behalf of

Development Consent Order Number
TR010044

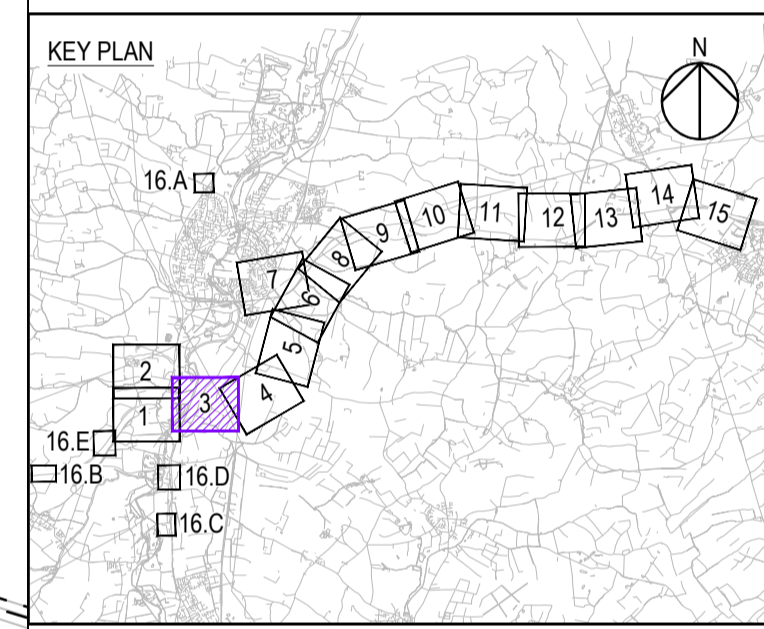
Project Title
A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

Drawing Title
ENVIRONMENTAL MASTERPLAN SHEET 2 OF 16

Designed EJ	Drawn EJ	Checked MKM	Approved MKM	Date 24/01/22
Internal Project No. 60541541	Suitability D9	Scale @ A1 1:2500		
Zone General		THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.		
Drawing Number HE551495	Highways England PIN -ACM	1 Originator -ELS	1 Volume -LV	Rev P03
Location GEN_SW_Z_ZZ_DR-LV-0003				1 Type 1 Role 1 Number



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Revision Details			
No	Description	By	Date
1	NH logo update, marking Crossing Point 1	EJ	24/01/22
2		MKM	
3		Check	

DCO EXAMINATION

Client: National Highways
 Working on behalf of: national highways

Development Consent Order Number: **TR010044**

Project Title: **A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS**

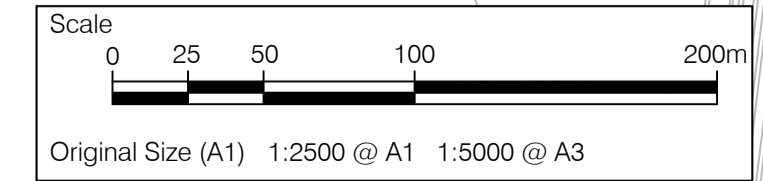
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Designed	Drawn	Checked	Approved	Date
EJ	EJ	MKM	MKM	24/01/22

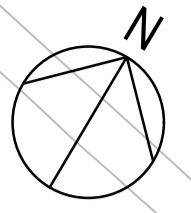
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 Scale @ A1: 1:2500
 Zone: General

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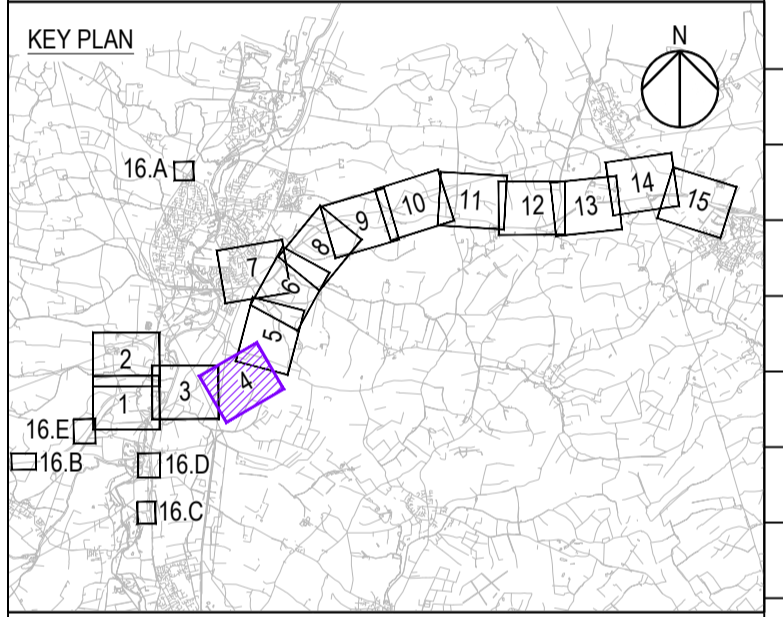
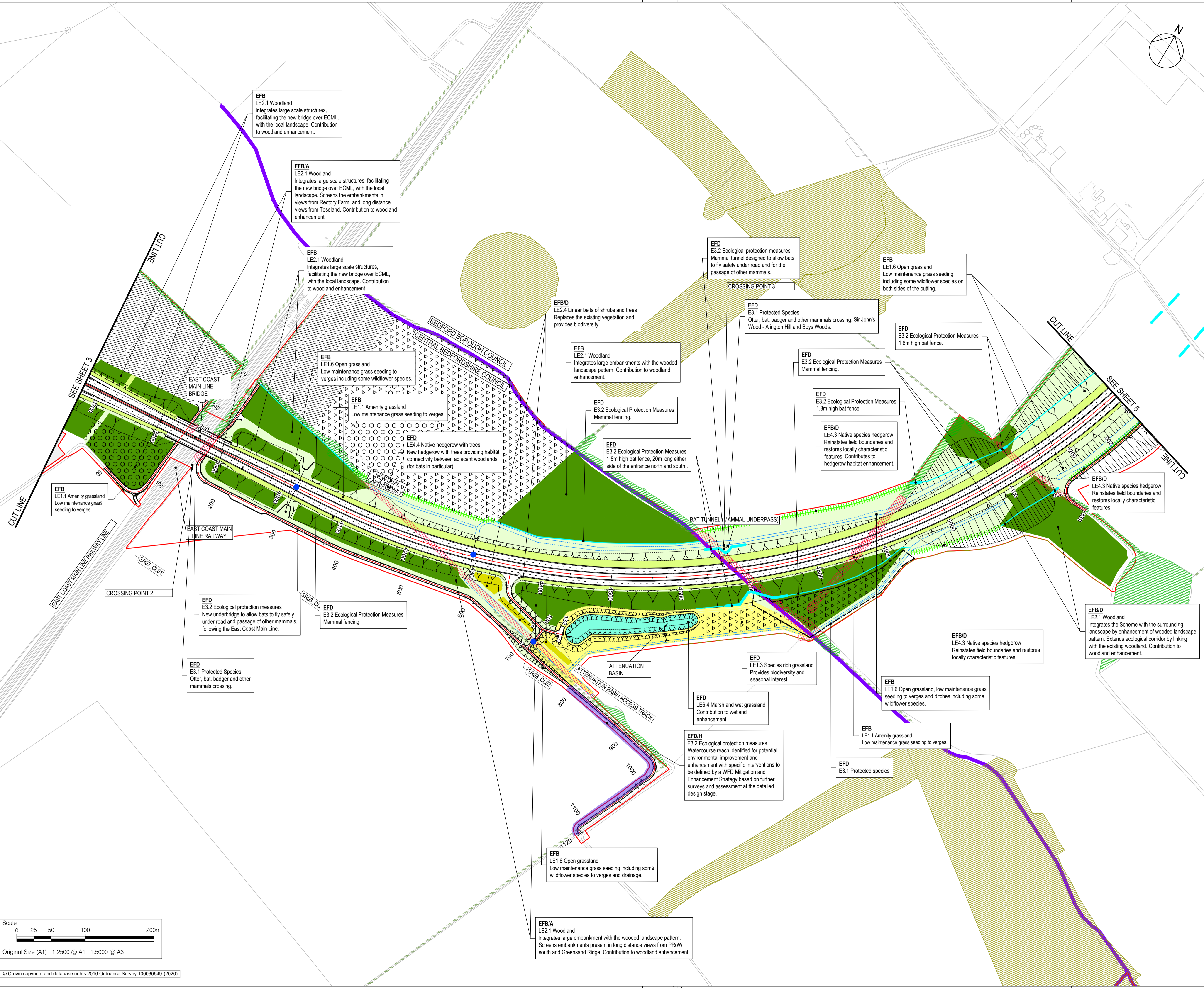
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Revision Details			
By	Date	Check	Suffix
EJ	24/01/22	MKM	P04

DCO EXAMINATION

Client: **National Highways**
 Working on behalf of:
 Woodlands
 Manton Lane
 Manton Industrial Estate
 Bedford
 MK41 7LW

Development Consent Order Number:
TR010044

Project Title:
**A428 BLACK CAT TO
 CAXTON GIBBET
 IMPROVEMENTS**

Drawing Title:
**ENVIRONMENTAL
 MASTERPLAN
 SHEET 4 OF 16**

Designed	Drawn	Checked	Approved	Date
EJ	EJ	MKM	MKM	24/01/22

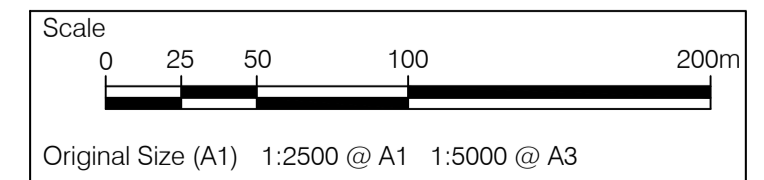
Internal Project No. 60541541
 Scale @ A1 1:2500
 Substation D9
 Zone General

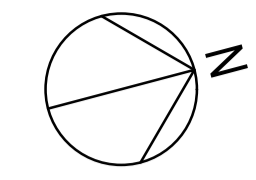
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Highways England PIN	1	Originator	1	Volume	1
HE551495	ACM	EL5			
GEN_SW_Z_ZZ	DR-LV-0005				
Location	I	Type	1	Role	1

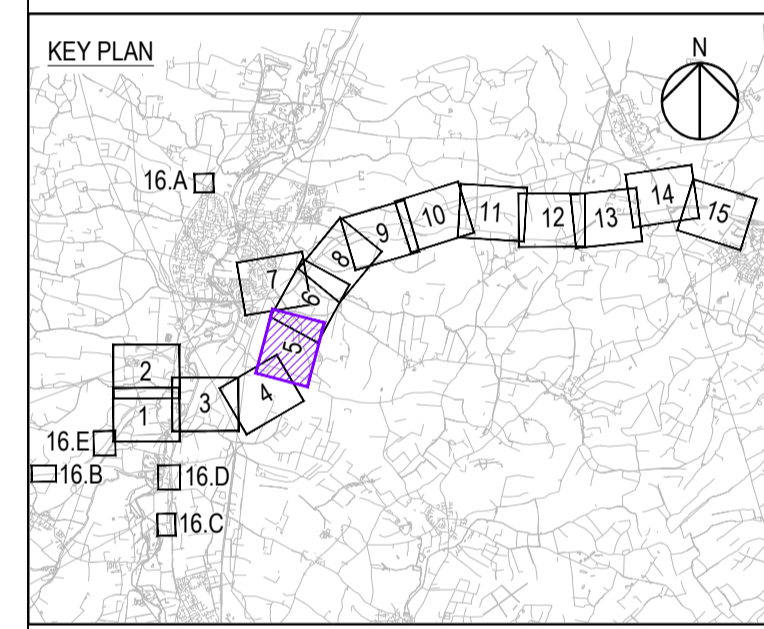
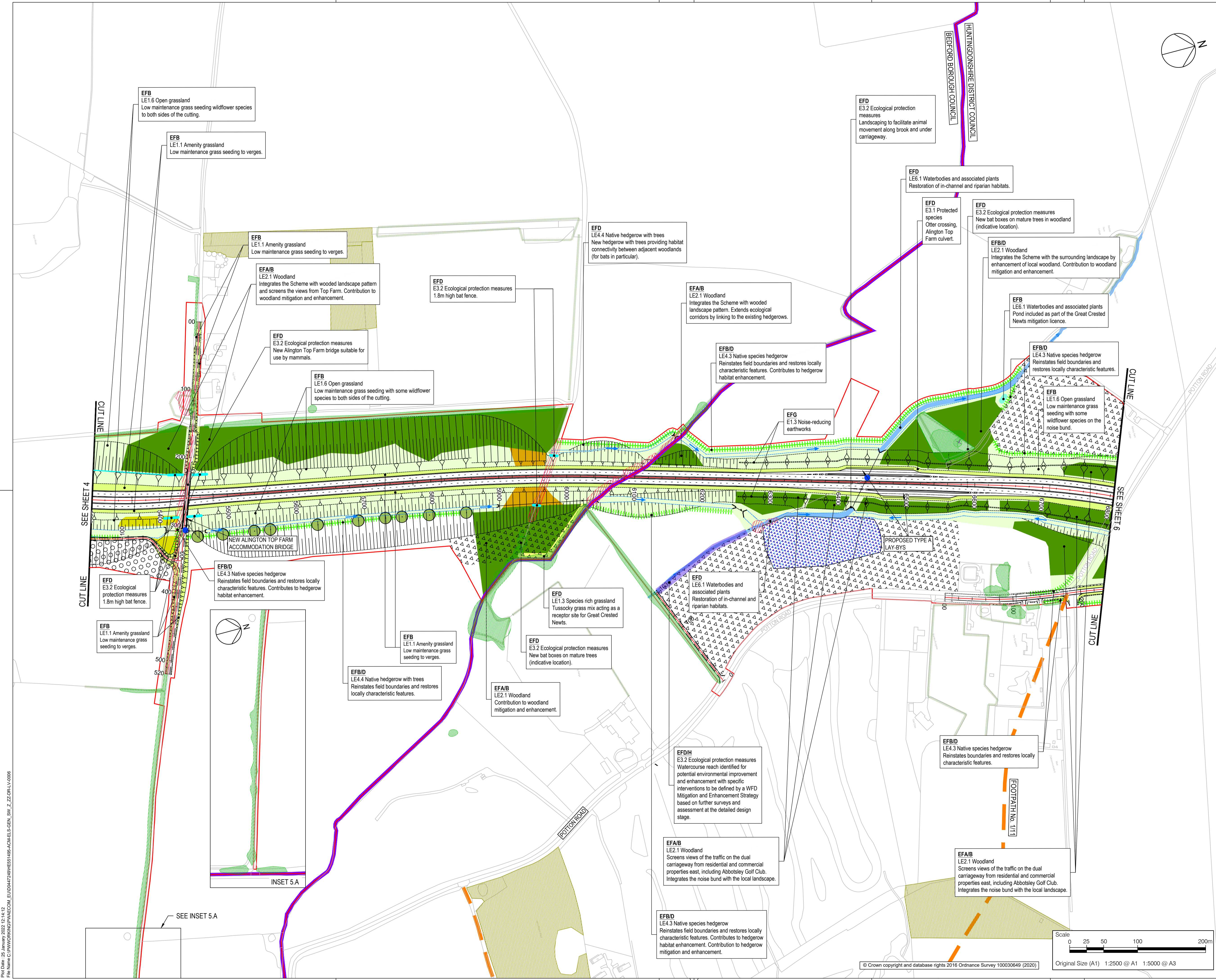
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Bat Fences Added	EJ	25/01/22	POS
Revision Details	By	Date	Suffix
	MKM		
	Check		

DCO EXAMINATION

Client: National Highways
 Working on behalf of national highways
 Woodlands
 Marston Lane
 Bedford Industrial Estate
 Bedford
 MK41 7LW

Development Consent Order Number: **TR010044**

Project Title: **A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS**

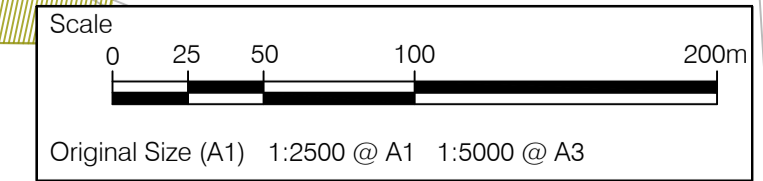
Drawing Title: **ENVIRONMENTAL MASTERPLAN SHEET 5 OF 16**

Designed	Drawn	Checked	Approved	Date
EJ	EJ	MKM	MKM	25/01/22
Internal Project No.	Suitability			
60541541	D9			
Scale @ A1	Zone			
1:2500	General			

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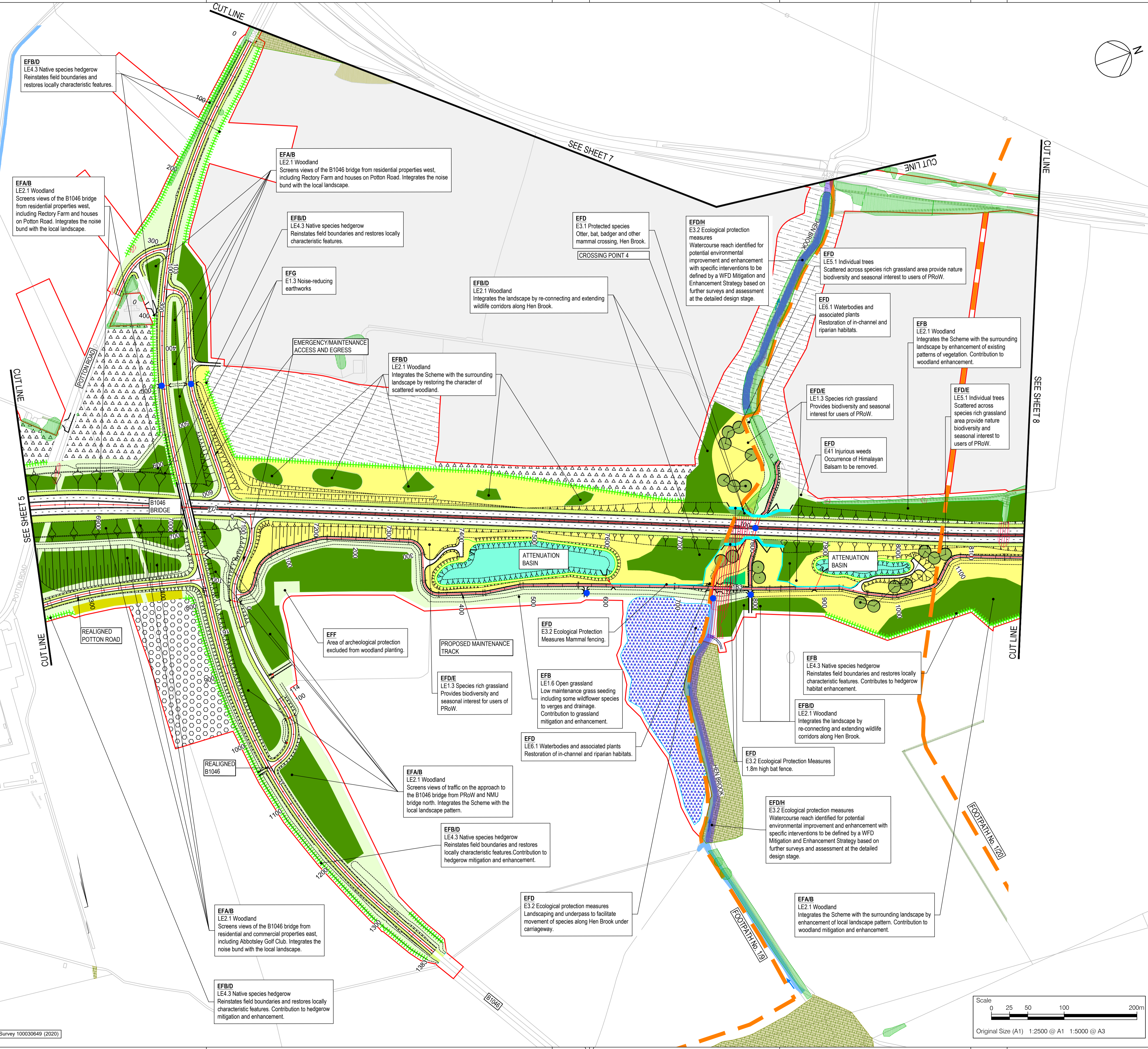
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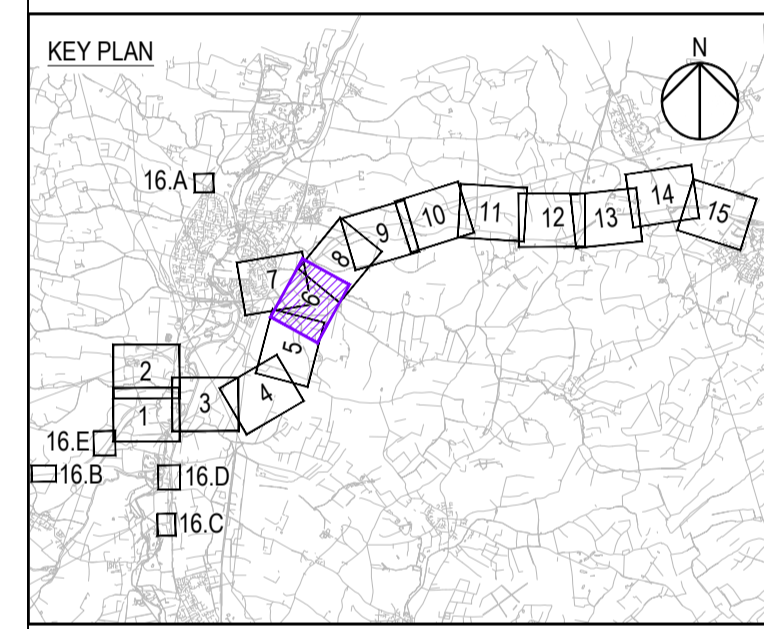




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Proj Code: 24 - January 2024 - P10125
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Revision Details			
By	Check	Date	Suffix
EJ	MKM	24/01/22	P04

Purpose of Issue
DCO EXAMINATION

Client
National Highways
Woodlands
Manton Lane
Manton Industrial Estate
Bedford
MK41 7LW

Working on behalf of

Development Consent Order Number
TR010044

Project Title
A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

Drawing Title
ENVIRONMENTAL MASTERPLAN SHEET 6 OF 16

Designed EJ	Drawn EJ	Checked MKM	Approved MKM	Date 24/01/22
Internal Project No. 60541541			Suitability D9	
Scale @ A1 1:2500			Zone General	

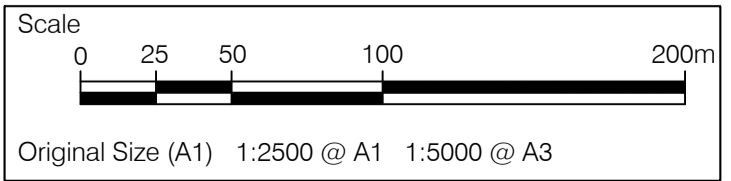
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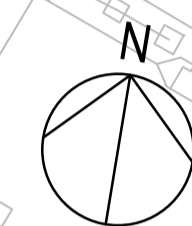
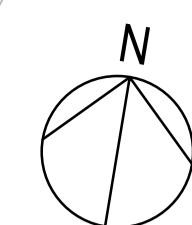
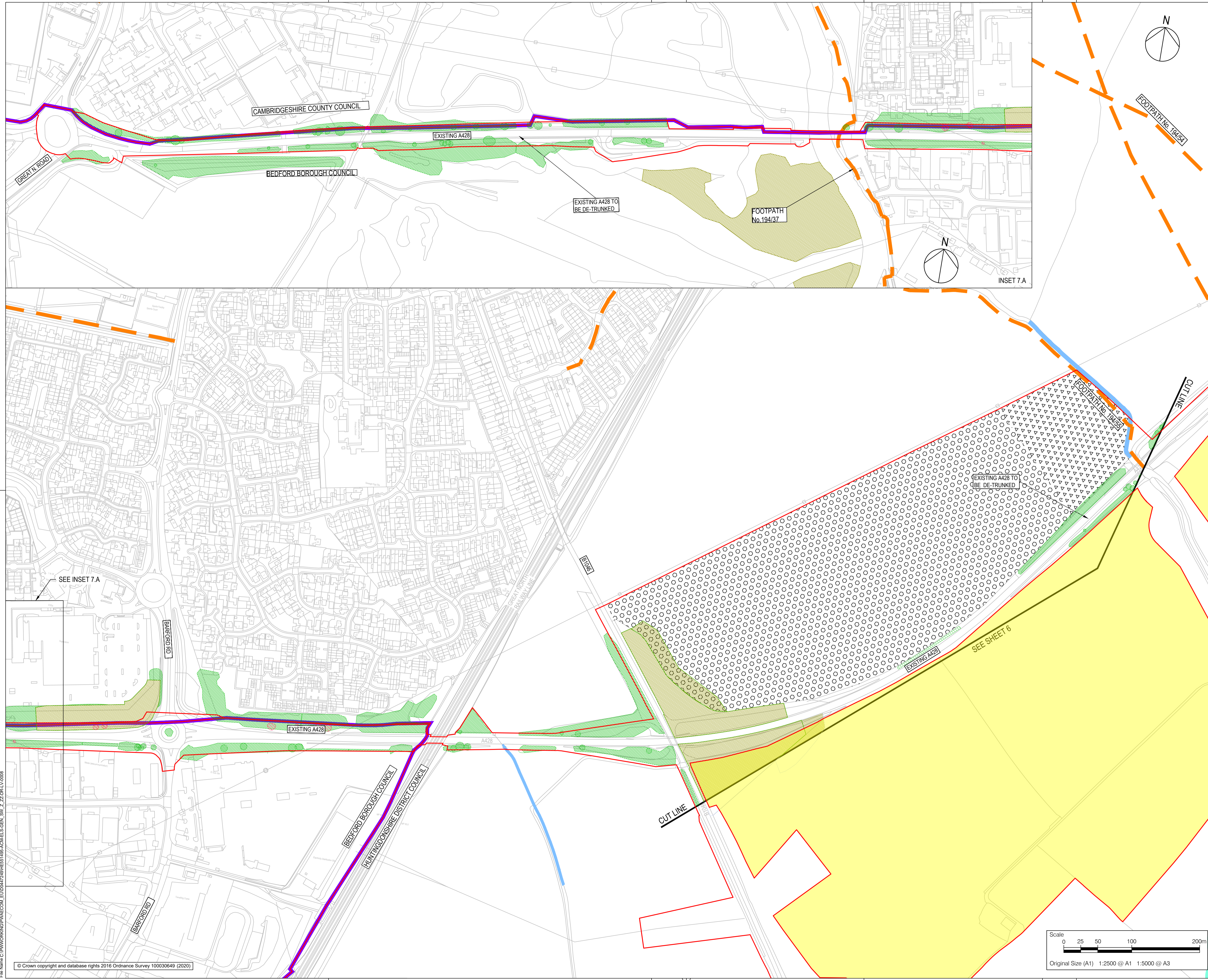
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HE551495 -ACM -EL5 -

Highways England PIN 1 Originator 1 Volume

Location
GEN_SW_Z_ZZ -DR-LV -0007

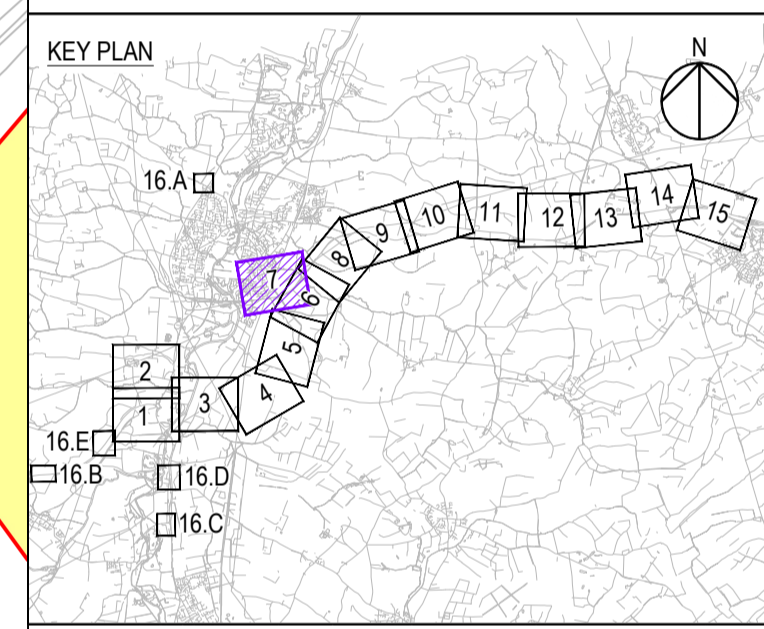
Rev
P04





INSET 7.A

- NOTES
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 - THE DRAFT DEVELOPMENT CONSENT ORDER AND ACCOMPANYING APPLICATION DOCUMENTATION.
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Revision Details			
By	Check	Date	Suffix
EJ	MKM	24/01/22	P04

Purpose of issue
DCO EXAMINATION

Client
National Highways
Woodlands
Manton Lane
Manton Industrial Estate
Bedford
MK41 7LW

Working on behalf of
national highways

Development Consent Order Number
TR010044

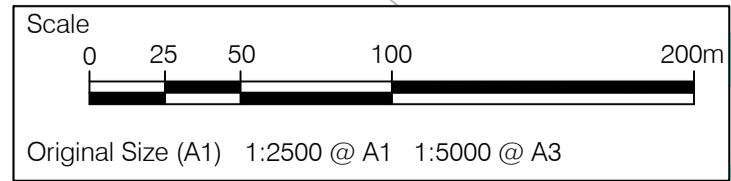
Project Title
A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

Drawing Title
ENVIRONMENTAL MASTERPLAN SHEET 7 OF 16

Designed	Drawn	Checked	Approved	Date
EJ	EJ	MKM	MKM	24/01/22

Internal Project No. 60541541
Scale @ A1 1:2500
Subsidiarity D9
Zone General

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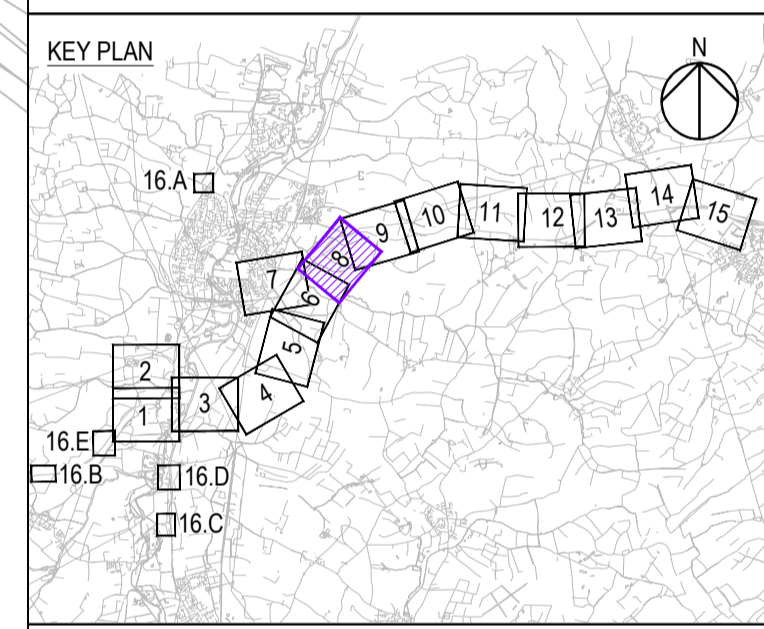


Drawing Number	Originator	Volume	Rev
HE551495 - ACM - ELS - GEN_SW_Z_ZZ - DR - LV - 0008			P04

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 Plot Date: 24 January 2022 17:05:54
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 - THE DRAFT DEVELOPMENT CONSENT ORDER [TR010044/APPG.1] AND ACCOMPANYING APPLICATION DOCUMENTATION; AND
 - THE DMRB SUSTAINABILITY & ENVIRONMENT - DESIGN LD 117 LANDSCAPE DESIGN GUIDANCE.
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Revision Details			
By	Check	Date	Suffix
EJ	MKM	24/01/22	P04

Purpose of Issue
DCO EXAMINATION

Client
National Highways
Woodlands
Manton Lane
Manton Industrial Estate
Bedford
MK41 7LW

Working on behalf of
national highways

Development Consent Order Number
TR010044

Project Title
A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

Drawing Title
ENVIRONMENTAL MASTERPLAN SHEET 8 OF 16

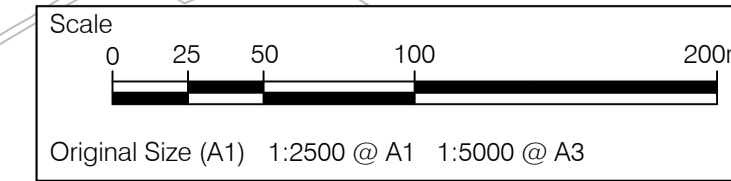
Designed	Drawn	Checked	Approved	Date
EJ	EJ	MKM	MKM	24/01/22

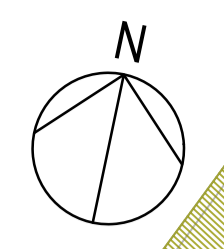
Internal Project No. 60541541
Scale @ A1 1:2500
Subsidiary D9
Zone General

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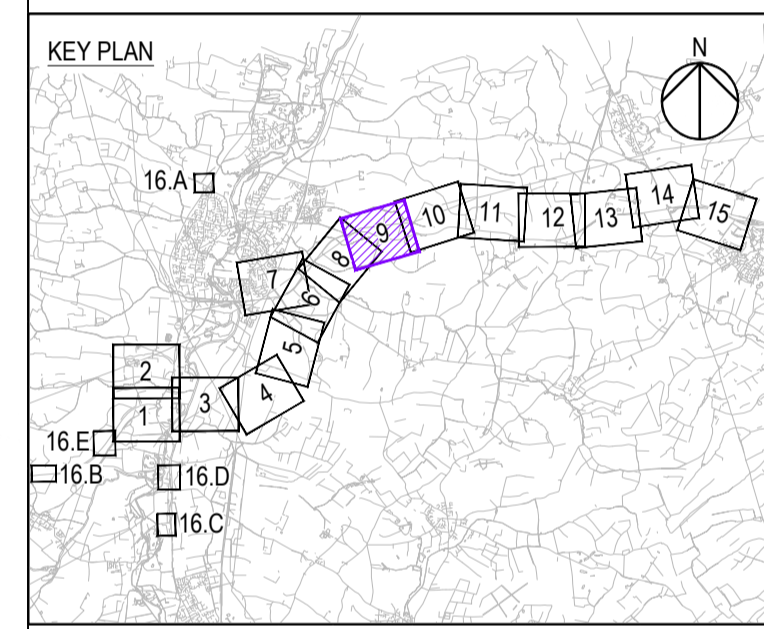
Drawing Number
HE551495 - ACM - ELS - GEN_SW_Z_ZZ-DR-LV-0009

Location
P04





- NOTES**
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 - THE ENVIRONMENTAL MASTERPLAN KEY PLAN;
 - THE DRAFT DEVELOPMENT CONSENT ORDER [TR010044/APP/1] AND ACCOMPANYING APPLICATION DOCUMENTATION; AND
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Revision Details			
By	Check	Date	Suffix
EJ	MKM	24/01/22	P04

DCO EXAMINATION

Client: National Highways
 Working on behalf of:
 Woodlands
 Manton Lane
 Manton Industrial Estate
 Bedford
 MK41 7LW

Development Consent Order Number: **TR010044**

Project Title: **A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS**

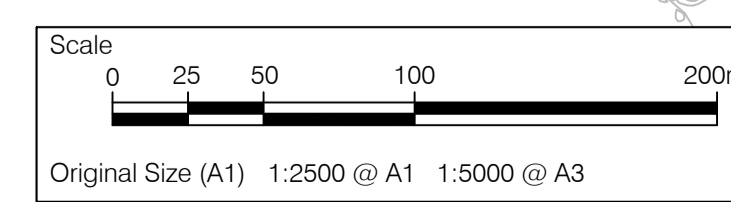
Drawing Title: **ENVIRONMENTAL MASTERPLAN SHEET 9 OF 16**

Designed	Drawn	Checked	Approved	Date
EJ	EJ	MKM	MKM	24/01/22

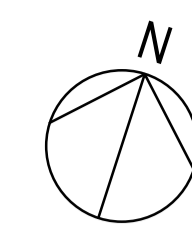
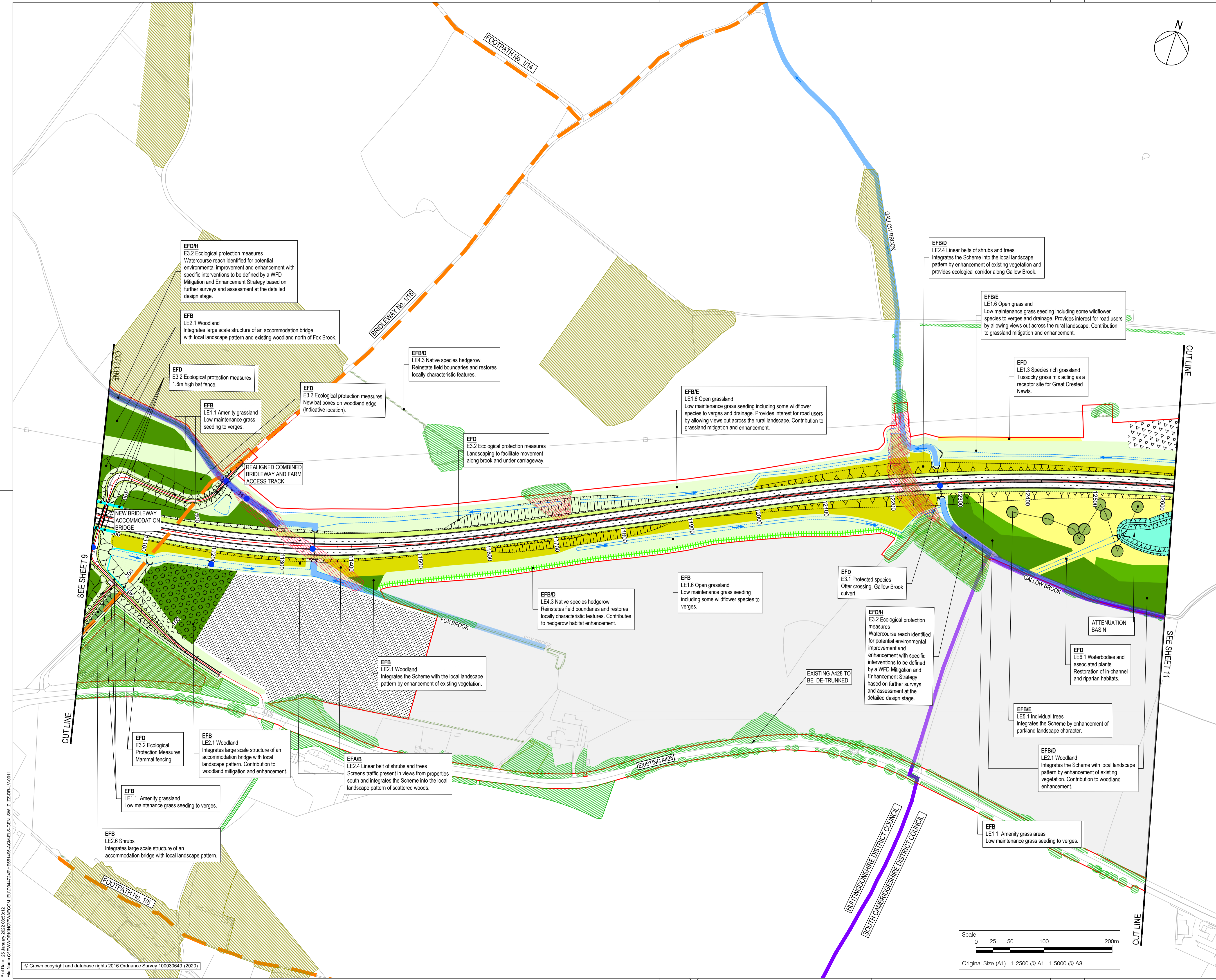
Internal Project No: 60541541
 Subtitle: D9
 Scale @ A1: 1:2500
 Zone: General

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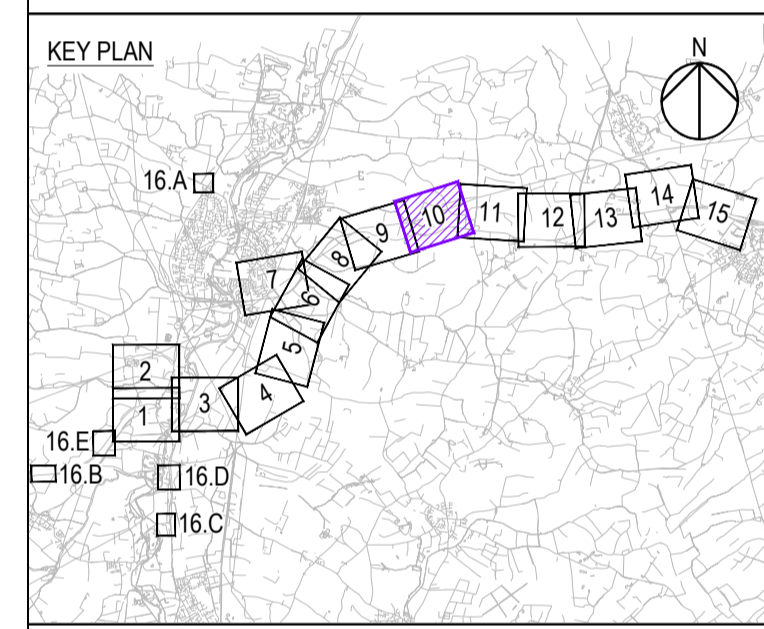
Drawing Number: HE551495 - ACM - ELS - GEN_SW_Z_ZZ_DR-LV-0010
 Location: I Type: 1 Role: 1 Number: P04



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Revision Details		By	Date	Suffix
Bat Fences Added		EJ	24/01/22	P04
Checked		MKM		

DCO EXAMINATION

Client: National Highways
 Working on behalf of: national highways
 Woodlands
 Marton Lane
 Marton Industrial Estate
 Bedford
 MK41 7LW

Development Consent Order Number: TR010044

A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

ENVIRONMENTAL MASTERPLAN SHEET 10 OF 16

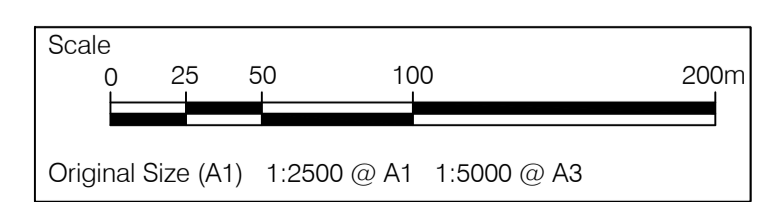
Designed	Drawn	Checked	Approved	Date
EJ	EJ	MKM	MKM	24/01/22

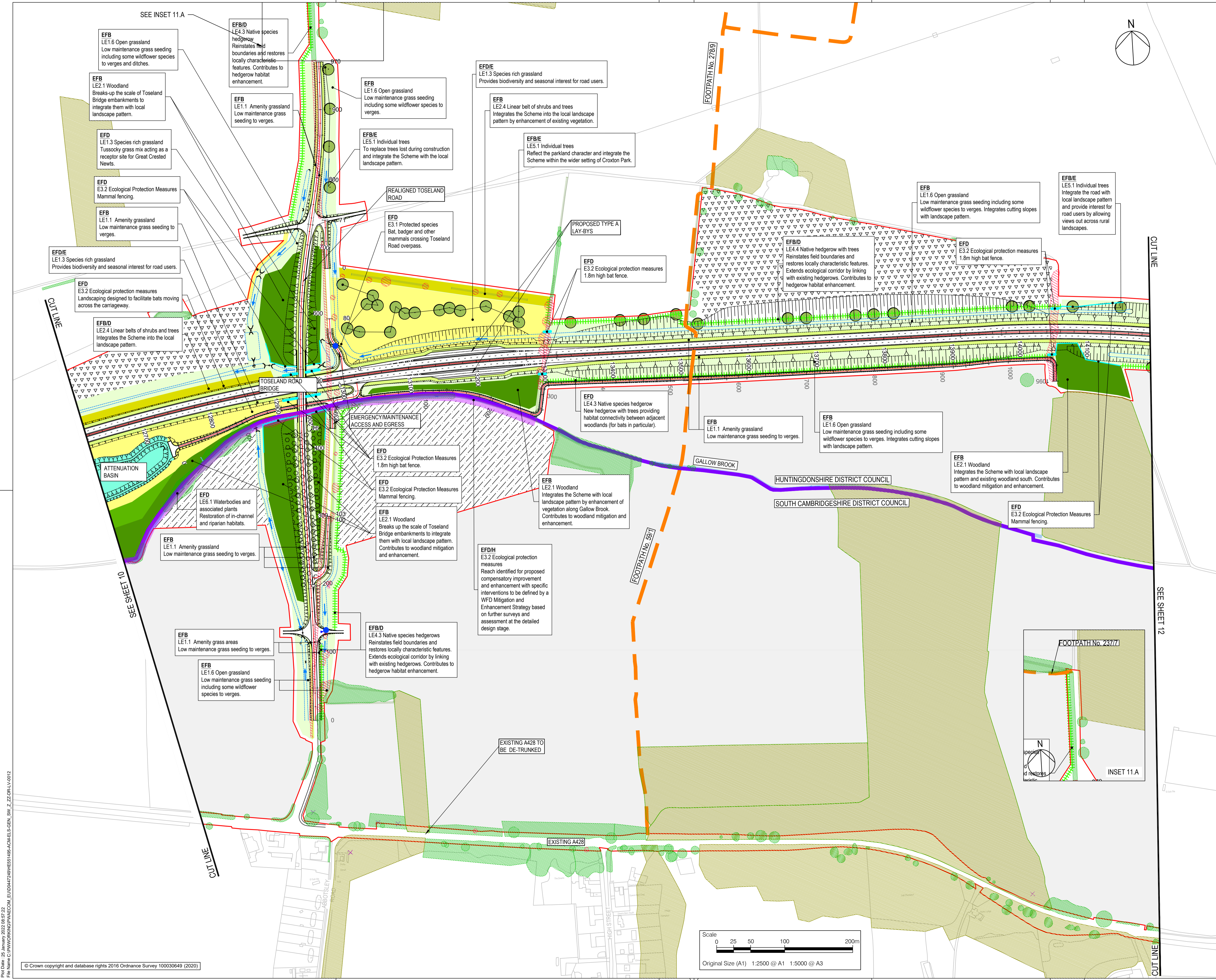
Internal Project No. 60541541
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 Scale @ A1: 1:2500
 Zone: General

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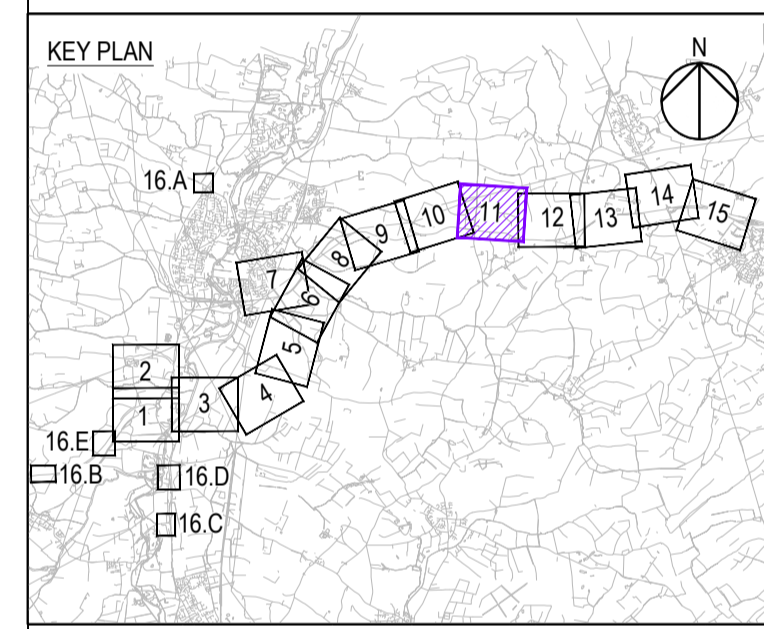
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HE551495 - ACM - ELS - GEN_SW_Z_ZZ_DR-LV-0011			P04

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Revision Details			
By	Check	Date	Suffix
EJ	MKM	24/01/22	P05

DCO EXAMINATION

Client: National Highways
 Working on behalf of: national highways

Development Consent Order Number: TR010044

Project Title: A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

Drawing Title: ENVIRONMENTAL MASTERPLAN SHEET 11 OF 16

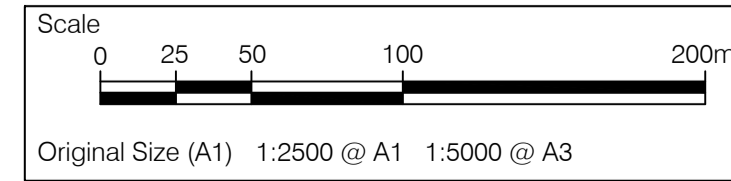
Designed	Drawn	Checked	Approved	Date
EJ	EJ	MKM	MKM	24/01/22

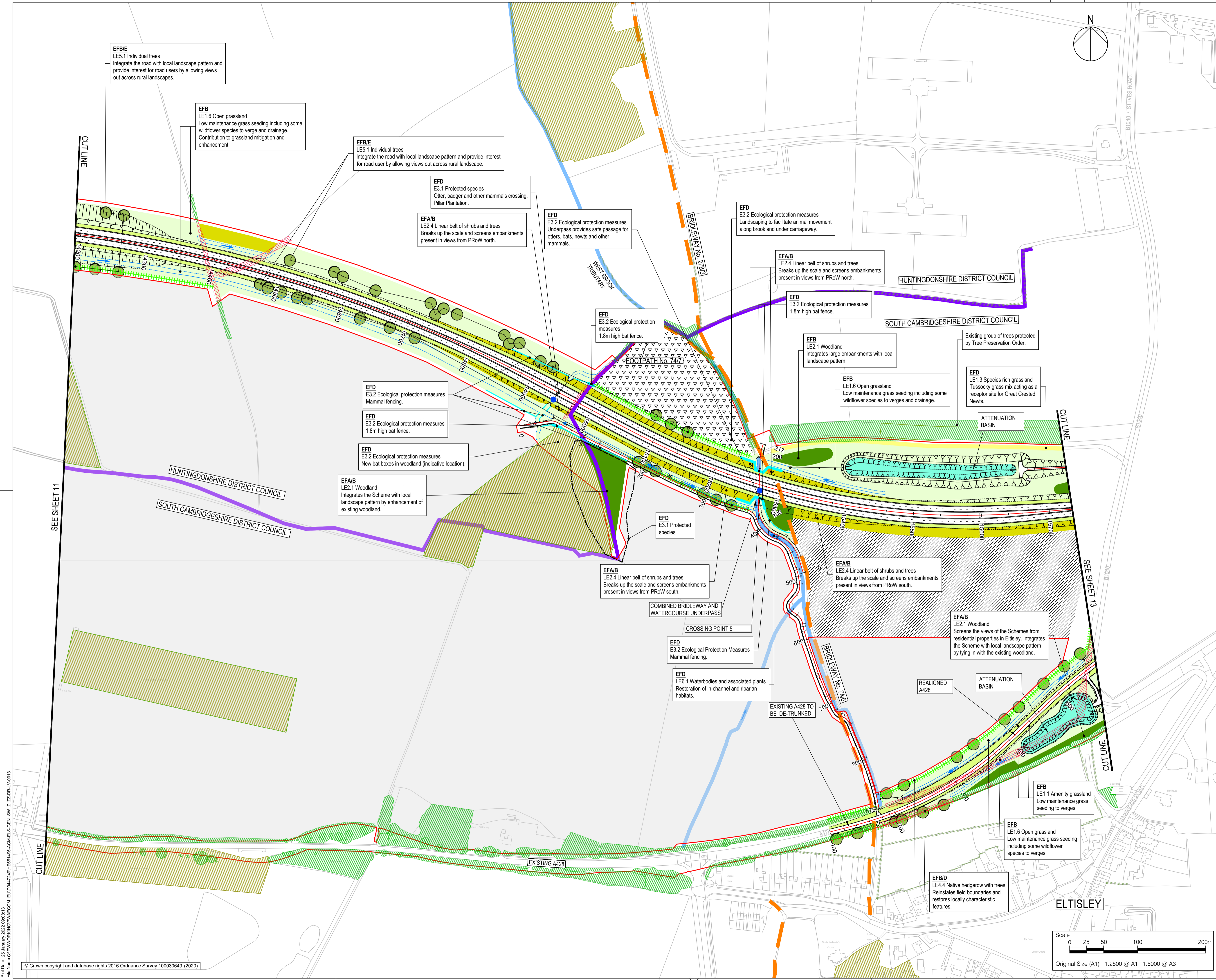
Internal Project No: 60541541
 Scale @ A1: 1:2500
 Zone: General

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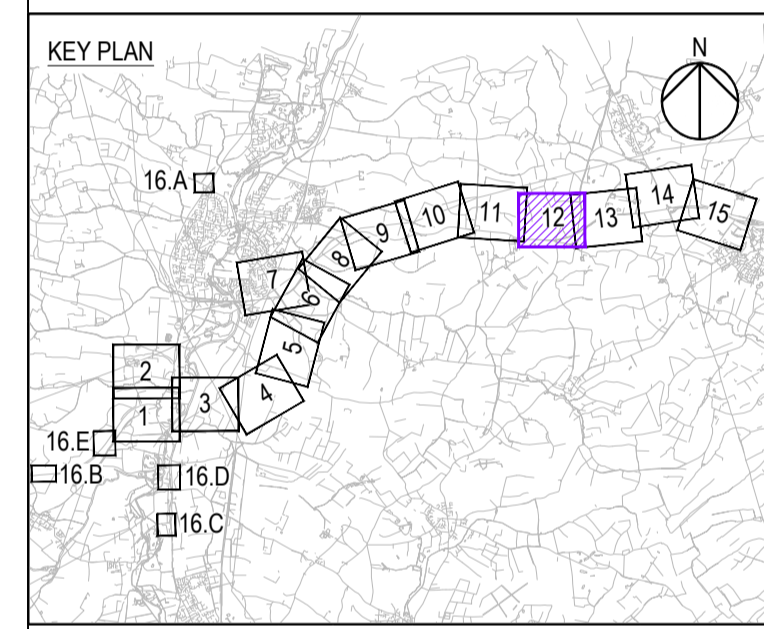
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Bat Fences Added		Revision Details	
By	Date	By	Date
EJ	24/01/22	By	
MKM		Check	

Purpose of issue
DCO EXAMINATION

Client
National Highways
Woodlands
Manton Lane
Manton Industrial Estate
Bedford
MK41 7LW

Working on behalf of
national highways

Development Consent Order Number
TR010044

Project Title
A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

Drawing Title
ENVIRONMENTAL MASTERPLAN SHEET 12 OF 16

Designed	Drawn	Checked	Approved	Date
EJ	EJ	MKM	MKM	24/01/22

Internal Project No. 60541541
Scale @ A1 1:2500
Sustainability D9
Zone General

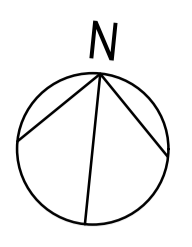
THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.

Drawing Number
HE551495 - ACM - ELS - GEN_SW_Z_ZZ - DR - LV - 0013

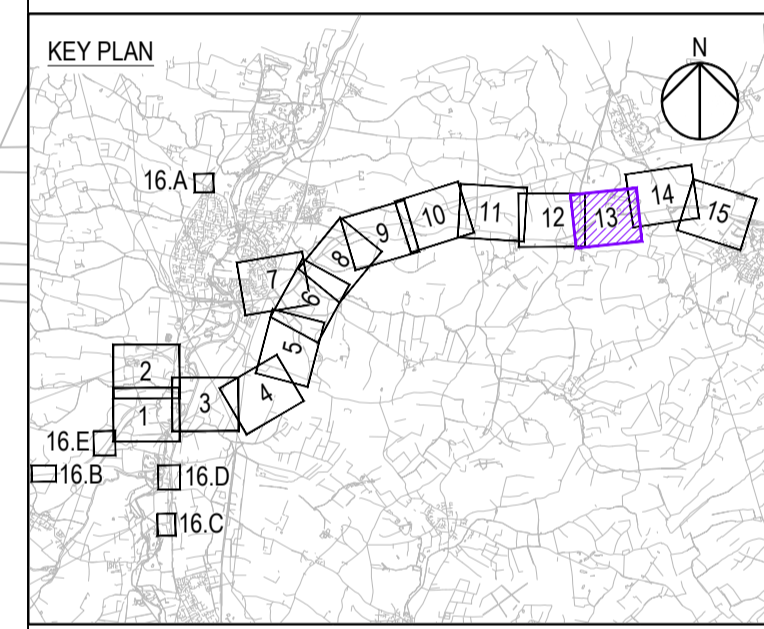
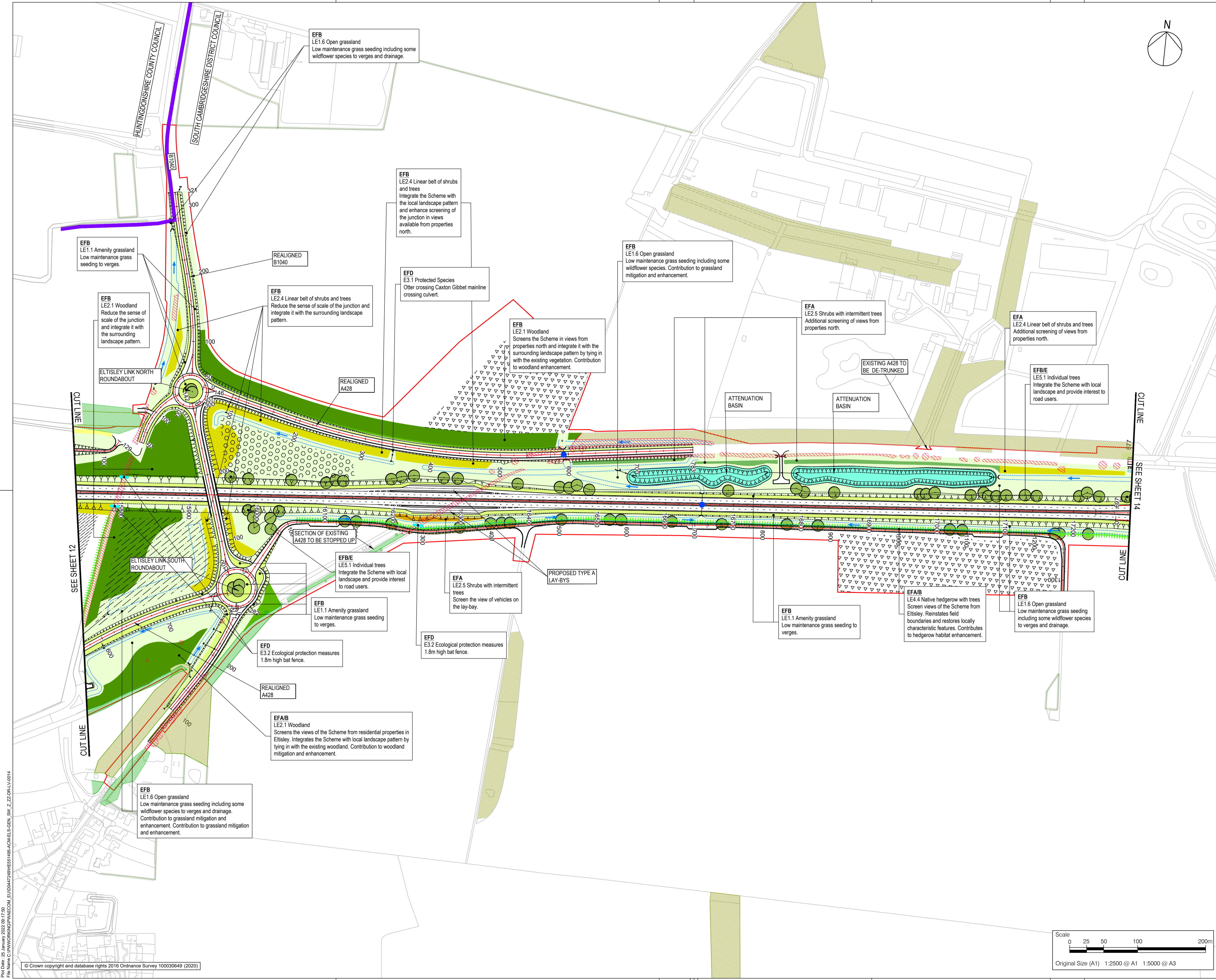
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HE551495 - ACM - ELS - GEN_SW_Z_ZZ - DR - LV - 0013

Location I Type I Role I Number
P04

Proj Name: C:\HW\010044\DR\APP\AECOM_ELD\0442\APP\HE551495-ACM-ELS-GEN_SW_Z_ZZ-DR-LV-0013
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Revision Details			
By	Check	Date	Suffix
EJ	MKM	24/01/22	P04

DCO EXAMINATION

Client: National Highways
 Woodlands
 Manton Lane
 Manton Industrial Estate
 Bedford
 MK41 7LW

Working on behalf of

Development Consent Order Number: **TR010044**

Project Title: **A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS**

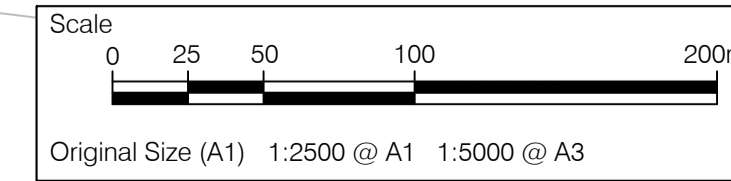
Drawing Title: **ENVIRONMENTAL MASTERPLAN SHEET 13 OF 16**

Designed	Drawn	Checked	Approved	Date
EJ	EJ	MKM	MKM	24/01/22

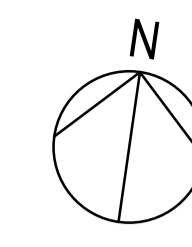
Internal Project No. 60541541
 Scale @ A1: 1:2500
 Subtitle: D9
 Zone: General

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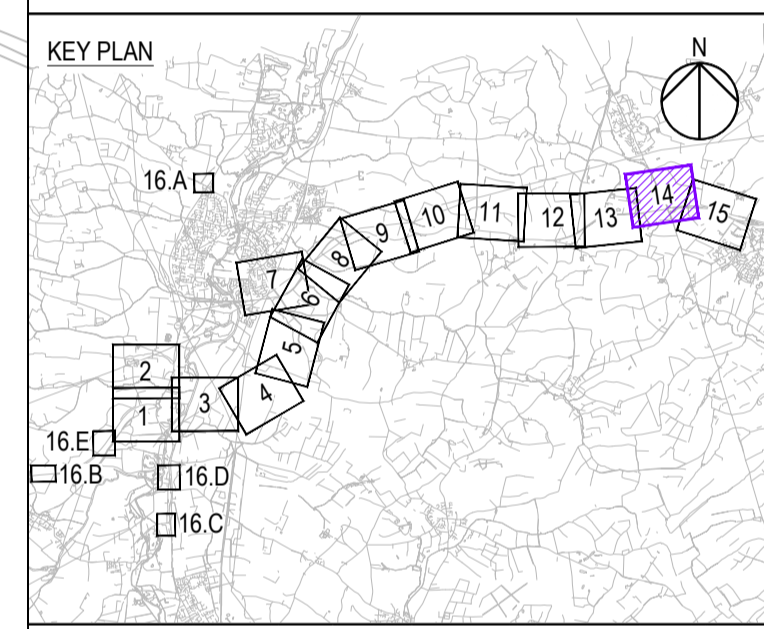
Drawing Number: HE551495 - ACM - ELS - GEN_SW_Z_ZZ_DR-LV-0014
 Highways England PIN: I Originator: I Volume: P04
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By	EJ	24/01/22	PK4
Check	MKM		
Date			
Suffix			

DCO EXAMINATION

Client: National Highways
 Working on behalf of:
 Woodlands
 Manton Lane
 Bedford
 MK41 7LW

Development Consent Order Number: **TR010044**

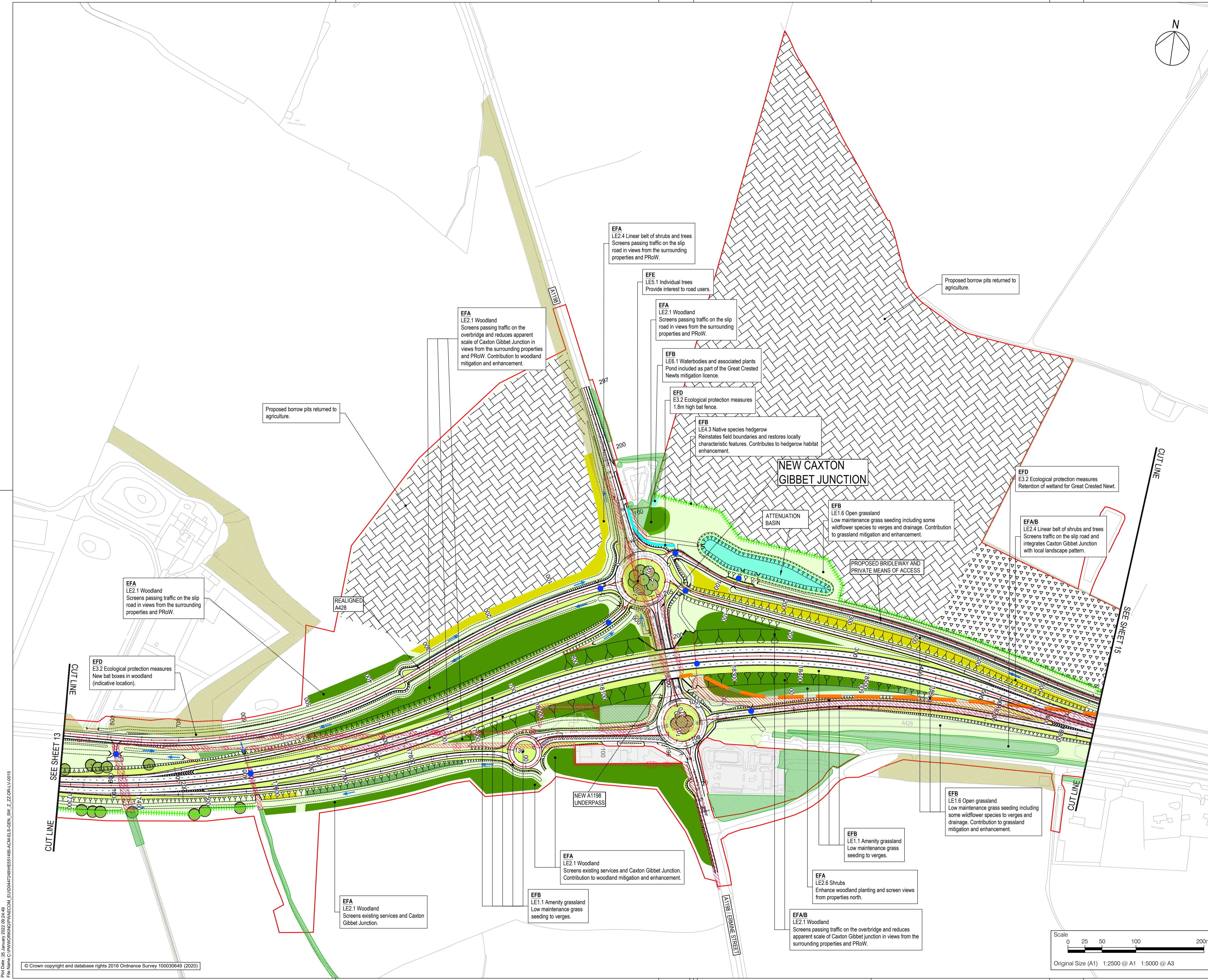
Project Title: **A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS**

Drawing Title: **ENVIRONMENTAL MASTERPLAN SHEET 14 OF 16**

Designed	Drawn	Checked	Approved	Date
EJ	EJ	MKM	MKM	24/01/22
Internal Project No.	Suitability			
60541541	D9			
Scale @ A1	Zone			
1:2500	General			

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Drawing Number: HE551495 - ACM - ELS - P04
 Location: GEN_SW_Z_ZZ_DR-LV-0015
 I Type: I Role: I Number



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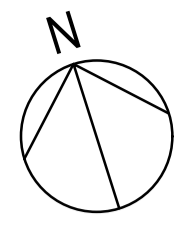
EFB
LE1.6 Open grassland
Low maintenance grass seeding
including some wildflower
species to verges and drainage.

EFB
LE1.1 Amenity grassland
Low maintenance grass seeding
to verges.

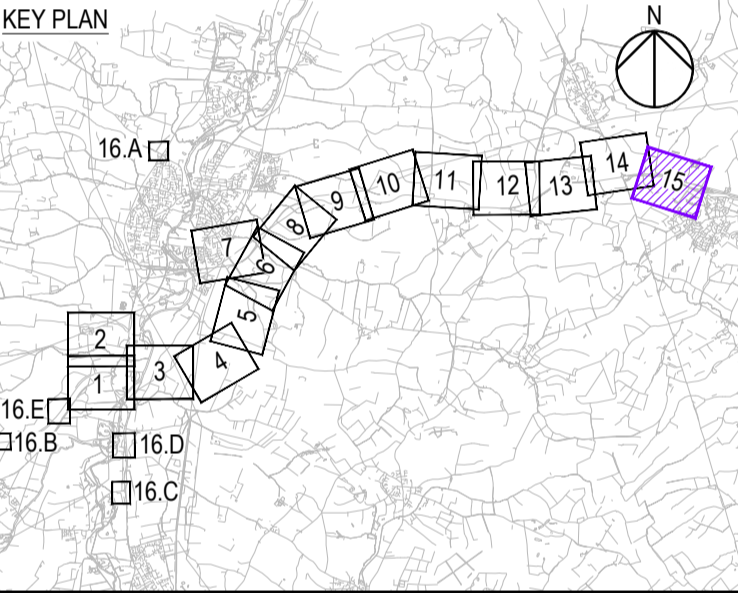
PROPOSED BRIDLEWAY AND
PRIVATE MEANS OF ACCESS

SCHEME TO TIE INTO
EXISTING CARRIAGEWAY

EFD
E3.2 Ecological protection
measures
Retention of wetland for Great
Crested Newt.



- NOTES
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 - THE DRAFT DEVELOPMENT CONSENT ORDER (TR010044/APP/3.1) AND ACCOMPANYING APPLICATION DOCUMENTATION; AND
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Revision Details			
By	Check	Date	Suffix
EJ	MKM	24/01/22	P03

Client
National Highways
Woodlands
Manton Lane
Manton Industrial Estate
Bedford
MK41 7LW

Working on behalf of

Development Consent Order Number
TR010044

Project Title
A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

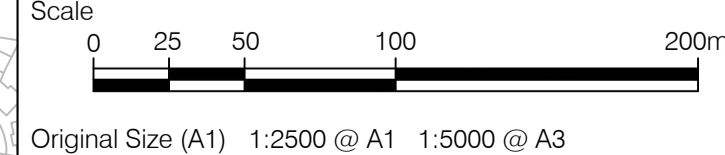
Drawing Title
ENVIRONMENTAL MASTERPLAN SHEET 15 OF 16

Designed	Drawn	Checked	Approved	Date
EJ	EJ	MKM	MKM	24/01/22

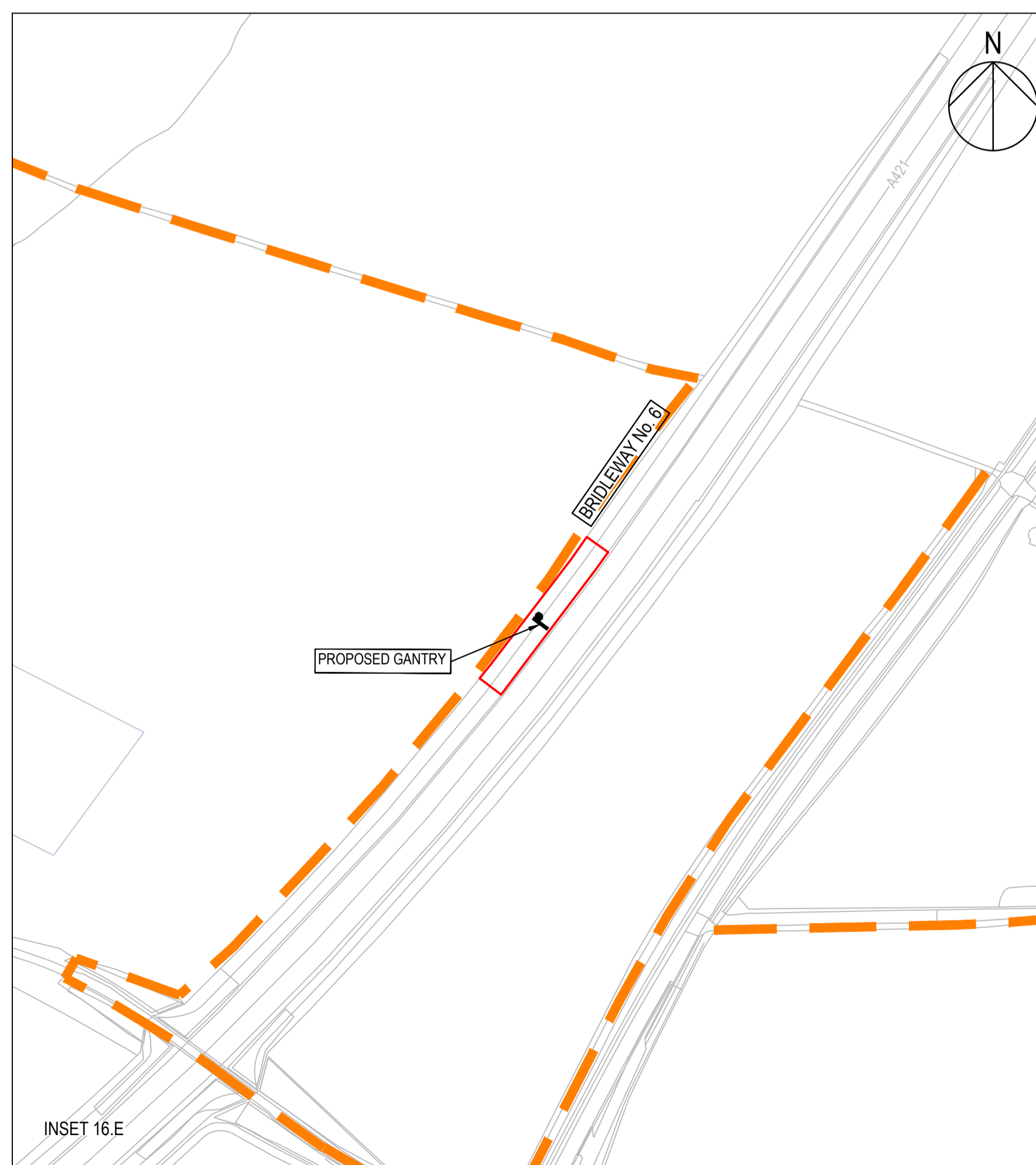
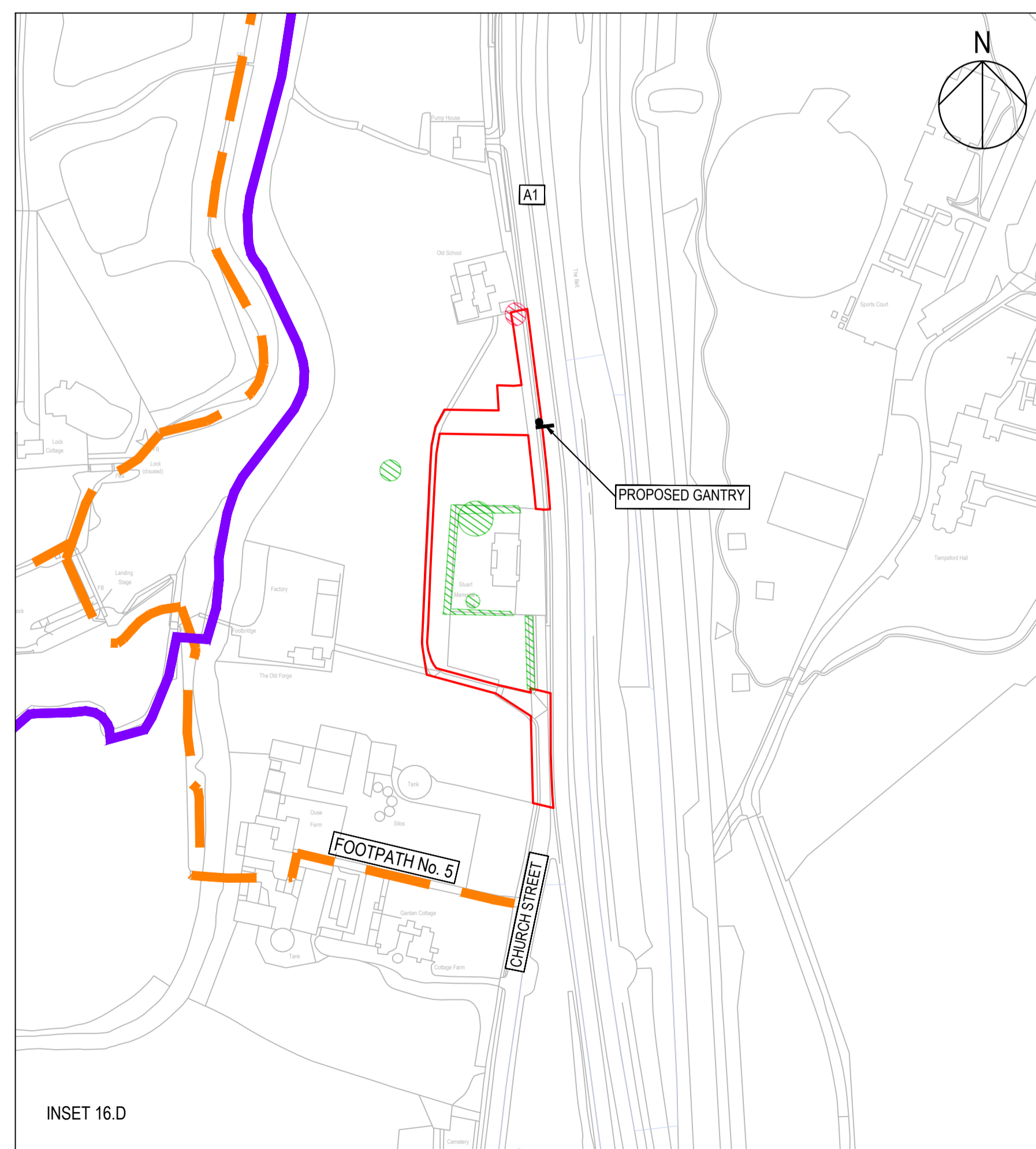
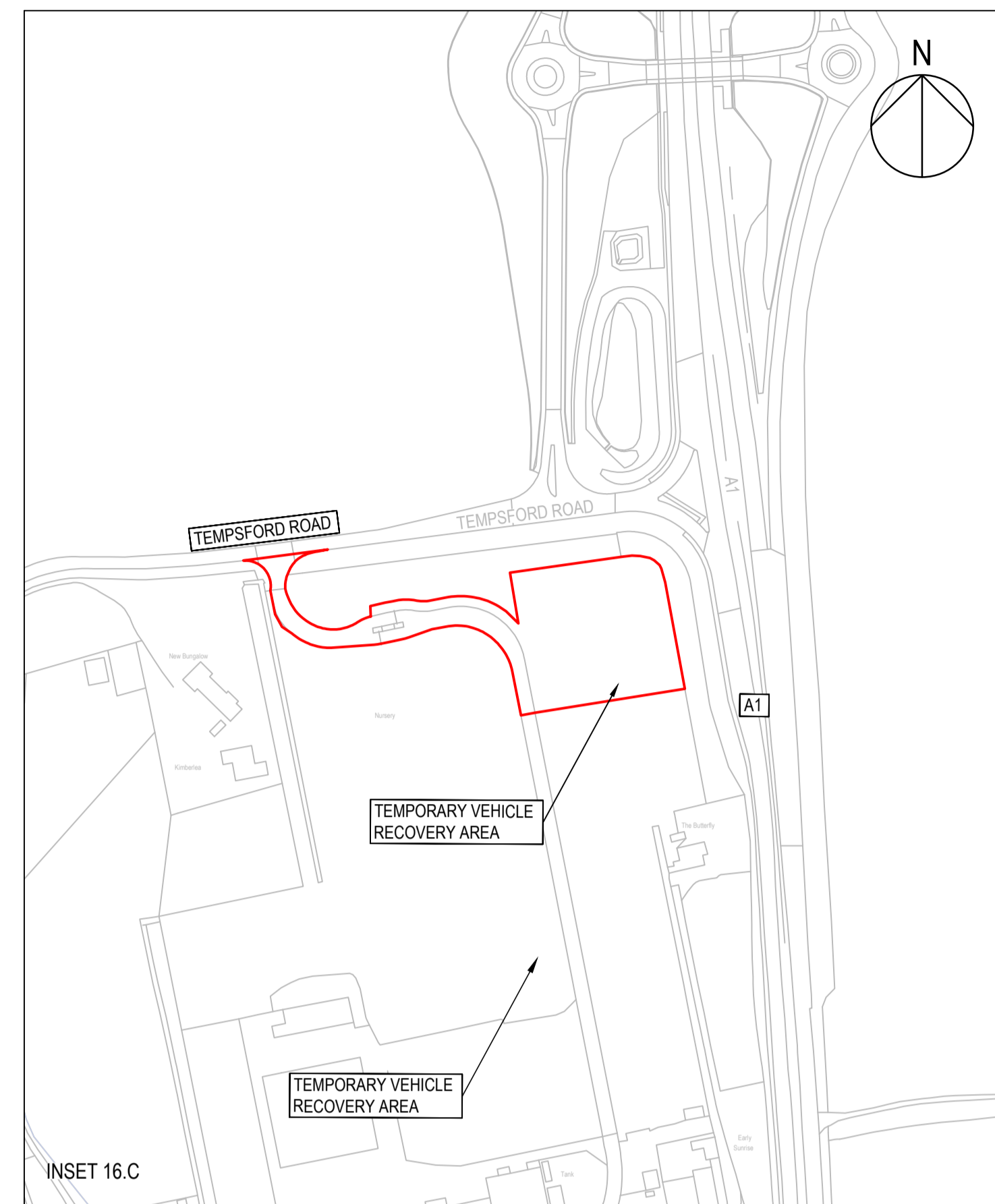
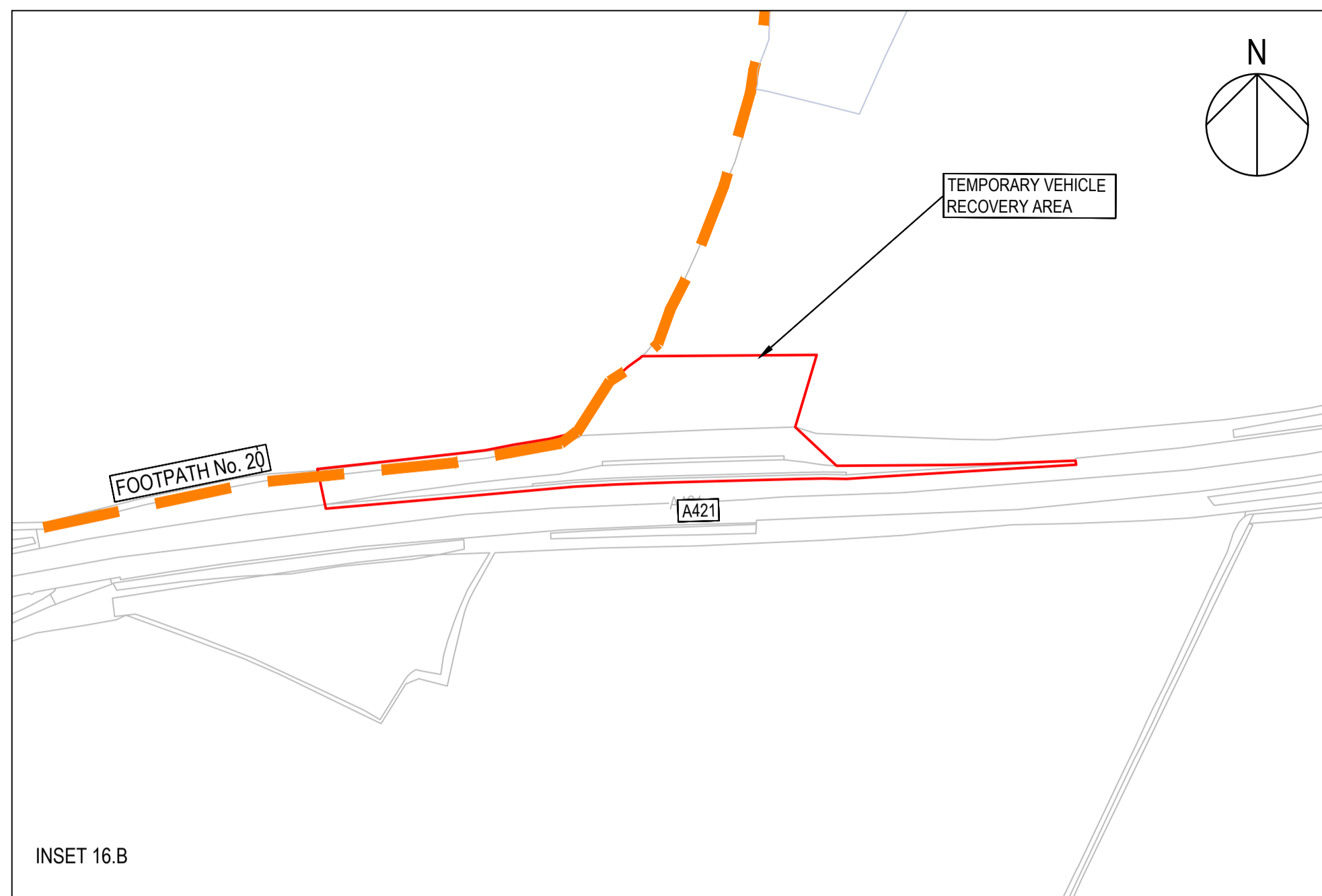
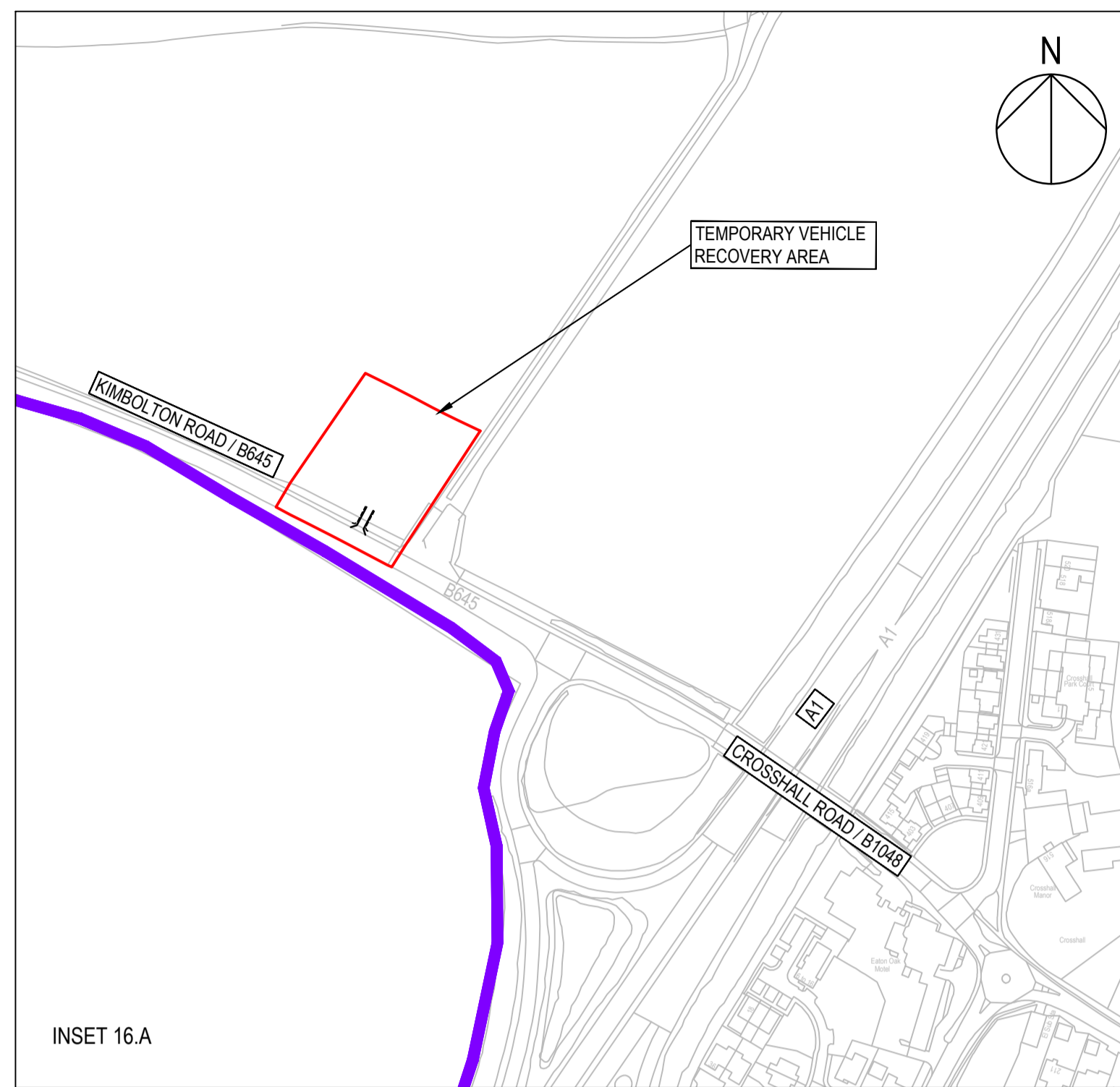
Internal Project No. 60541541
Scale @ A1 1:2500
Subsidiarity D9
Zone General

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Drawing Number	Highways England PIN	1 Originator	1 Volume	Rev
HE551495 - ACM	- ELS -			P03
GEN_SW_Z_ZZ - DR - LV - 0016				

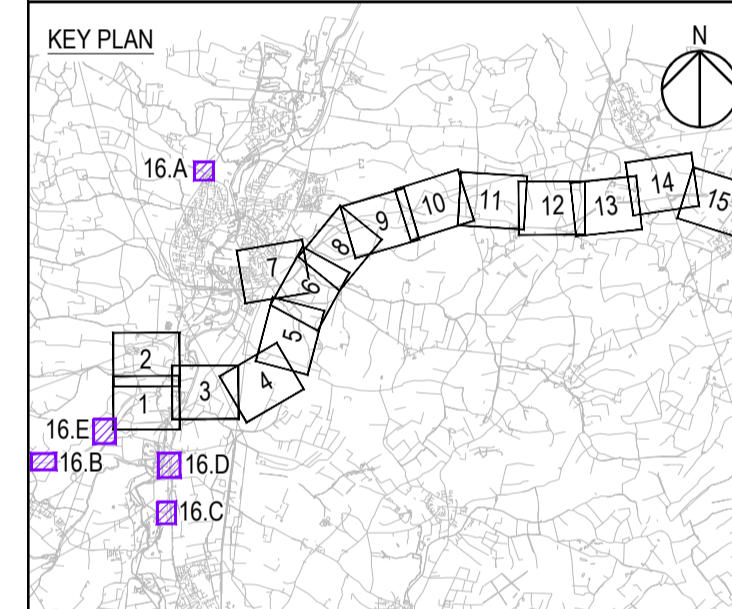


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NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
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 - THE DRAFT DEVELOPMENT CONSENT ORDER [TR010044/APPG.1] AND ACCOMPANYING APPLICATION DOCUMENTATION; AND
 - THE DMRB SUSTAINABILITY & ENVIRONMENT - DESIGN LD 117 LANDSCAPE DESIGN GUIDANCE.
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Revision Details			
By	Check	Date	Suffix
EJ	MKM	24/01/22	P03

NH logo update

DCO EXAMINATION

Client
National Highways
Woodlands
Manton Lane
Bedford
MK41 7LW

Working on behalf of

Development Consent Order Number
TR010044

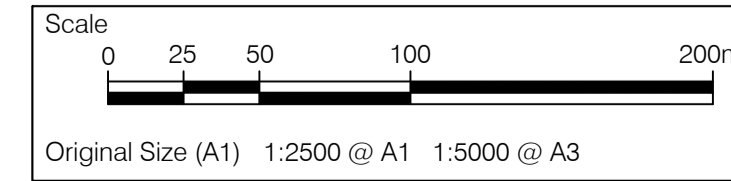
Project Title
A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

Drawing Title
ENVIRONMENTAL MASTERPLAN SHEET 16 OF 16

Designed	Drawn	Checked	Approved	Date
EJ	EJ	MKM	MKM	24/01/22

Internal Project No. 60541541 Substation D9
Scale @ A1 1:2500 Zone General

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Drawing Number: HE551495 -ACM -ELS - P03
Location: GEN_SW_Z_ZZ_DR-LV-0017