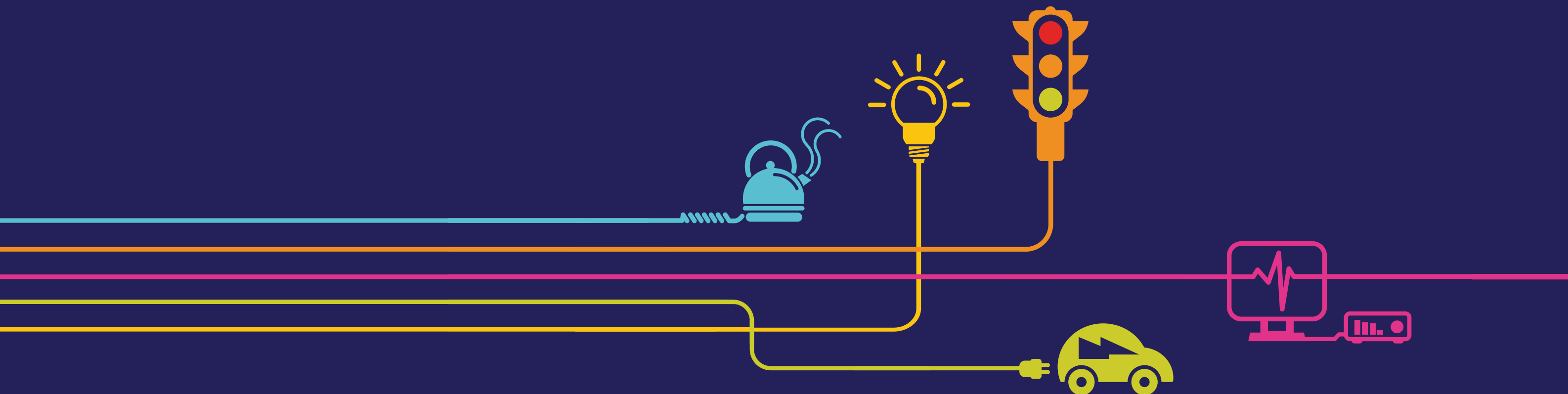


Environmental Statement Biodiversity and Nature Conservation Figures 8.37 to 8.44

Hinkley Point C Connection Project

*Regulation 5(2)(a) of the Infrastructure Planning
(Applications: Prescribed Forms and Procedure)
Regulations 2009*



Environmental Statement

Hinkley Point C Connection Project

5.8.3 – Biodiversity and Nature Conservation – Figures (orange highlight indicates the contents of this Volume)

Figure	Title
Volume 5.8.3.1	
8.1	Ecological Designations
8.2	Phase 1 Habitat Plan
8.3	Phase 1 Habitat Survey Target Notes
Volume 5.8.3.2	
8.4	National Vegetation Classification Survey Locations
8.5	Important Hedgerows
8.6	Hedgerows >3m High
8.7	Desktop Survey Records – BoCC species (excluding waders and wildfowl)
Volume 5.8.3.3	
8.8	Desktop Survey Records – Waders
8.9	Desktop Survey Records – Wildfowl
8.10	Desktop Survey Records – Schedule 1 Species
8.11	Winter Bird Survey Locations 2009-2014
8.12	Winter Bird Surveys Visits 1-7 (2012 and 2013) – Waders and Wildfowl Abundance
Volume 5.8.3.4	
8.13	Winter Bird Survey 2012-2014 – Waders, Wildfowl and Raptors Survey Results
8.14	Winter Bird Survey 2012– BoCC Survey Results
Volume 5.8.3.5	
8.15	Winter Bird Habitat Assessment – Waders
8.16	Winter Bird Habitat Assessment – Wildfowl
Volume 5.8.3.6	
8.17	Breeding Bird Survey Visits 1 and 2 (2010-2012)
8.18	Breeding Birds Visits 1 and 2 (2012 and 2013) – Species Diversity Scale
8.19	Breeding Birds Visits 1 and 2 (2012 and 2013) – Conservations Species Scale
8.20	Vantage Point Bird Survey Flightlines – Waders 2009-2010
8.21	Vantage Point Bird Survey Flightlines – Wildfowl 2009-2010
8.22	Vantage Point Bird Survey Flightlines – Waders 2010-2011
8.23	Vantage Point Bird Survey Flightlines – Wildfowl 2010-2011
8.24	Vantage Point Bird Survey Flightlines – Waders and Wildfowl 2013-2014
Volume 5.8.3.7	
8.25	Bird Designations Overview
8.26	Likelihood of Bird Movement
8.27	Bird Mitigation Strategy
8.28	Bat Roost Desk Study Data & Assessment of Trees
8.29	Bat Transect Results – Annex II Bat Species 2010
8.30	Bat Transect Results – Annex II Bat Species 2012
Volume 5.8.3.8	
8.31	Bat Transect Results – Pipistrelle Bat Species 2010

Figure	Title
8.32	Bat Transect Results – Pipistrelle Bat Species 2012
8.33	Bat Transect Results – Other Bat Species 2010
Volume 5.8.3.9	
8.34	Bat Transect Results – Other Bat Species 2012
8.35	Static Bat Recorder Locations and Results 2012
8.36	Bat Activity Hotspots
Volume 5.8.3.10	
8.37	SAC Impacts – Designations Overview
8.38	SAC Impacts – Bat Survey Scope
8.39	SAC Impacts – Lesser Horseshoe Bat
8.40	SAC Impacts – Greater Horseshoe Bat
8.41	SAC Impacts – Barbastelle & Bechstein's Bats
8.42	SAC Impacts – Mitigation Habitats
8.43	SAC Impacts – Mitigation Hedgerows
8.44	Dormouse Desk Study Data & Survey Locations
Volume 5.8.3.11	
8.45	Dormouse Photographic Locations
8.46	Water Vole Desk Study & Survey Data
Volume 5.8.3.12	
8.47	Otter Desk Study & Survey Data
8.48	CONFIDENTIAL Badger Desk Study & Survey Data
8.49	Brown Hare, Hedgehog, Harvest Mouse & Polecat Desk Study Data
Volume 5.8.3.13	
8.50	GCN Habitat Suitability Index
8.51	Amphibian Desk Study & Survey Data
8.52	GCN Population Survey Results
Volume 5.8.3.14	
8.53	Reptile Desk Study & Survey Results
8.54	Reptile Survey Locations
8.55	Ditch Invertebrates & Flora Desk Study Data
Volume 5.8.3.15	
8.56	Invertebrate Desk Study Data
8.57	Fish Desk Study & Environment Agency Survey Data
8.58	Invasive Species Plan

Figure 8.37 – SAC Impacts – Designations Overview

BAT SAC DESIGNATIONS 50KM OVERVIEW



Key

Proposed Infrastructure

-  Order Limits
 10km Order Limits Buffer
 50km Order Limits Buffer
- Ecological Designations**
 Special Area of Conservation
 1km SAC Buffer

Note
This map includes data from the following sources:

- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
- © Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
- © Crown copyright 2014. All rights reserved.

Licence number 0100031673

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
Licence No. 100024241 2014.

Title												

nationalgrid

NG INVESTMENT No.	APPLICATION No.	GIS A3
20897	EN020001	
FIGURE No.	DRAWING No.	SCALE
8.37.1	G1979.2245.1.C	1:400,000
SHEET 1 OF 2		ISSUE
		A

NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

BAT SAC DESIGNATIONS
10KM OVERVIEW



SITE MAP

Key

- Proposed Infrastructure**
- Order Limits
 - 10km Order Limits Buffer
- Ecological Designations**
- Special Area of Conservation
 - 1km SAC Buffer

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
Licence No. 100024241 2014.

Title
NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3
BAT SAC DESIGNATIONS
10KM OVERVIEW

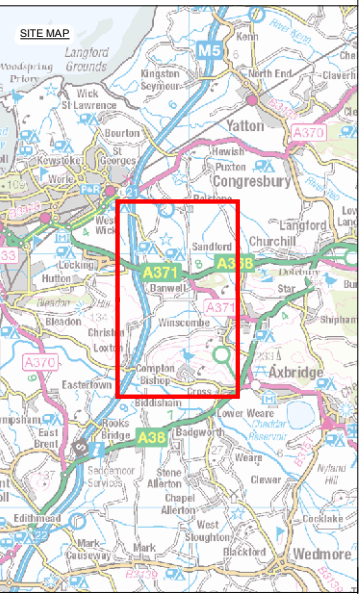
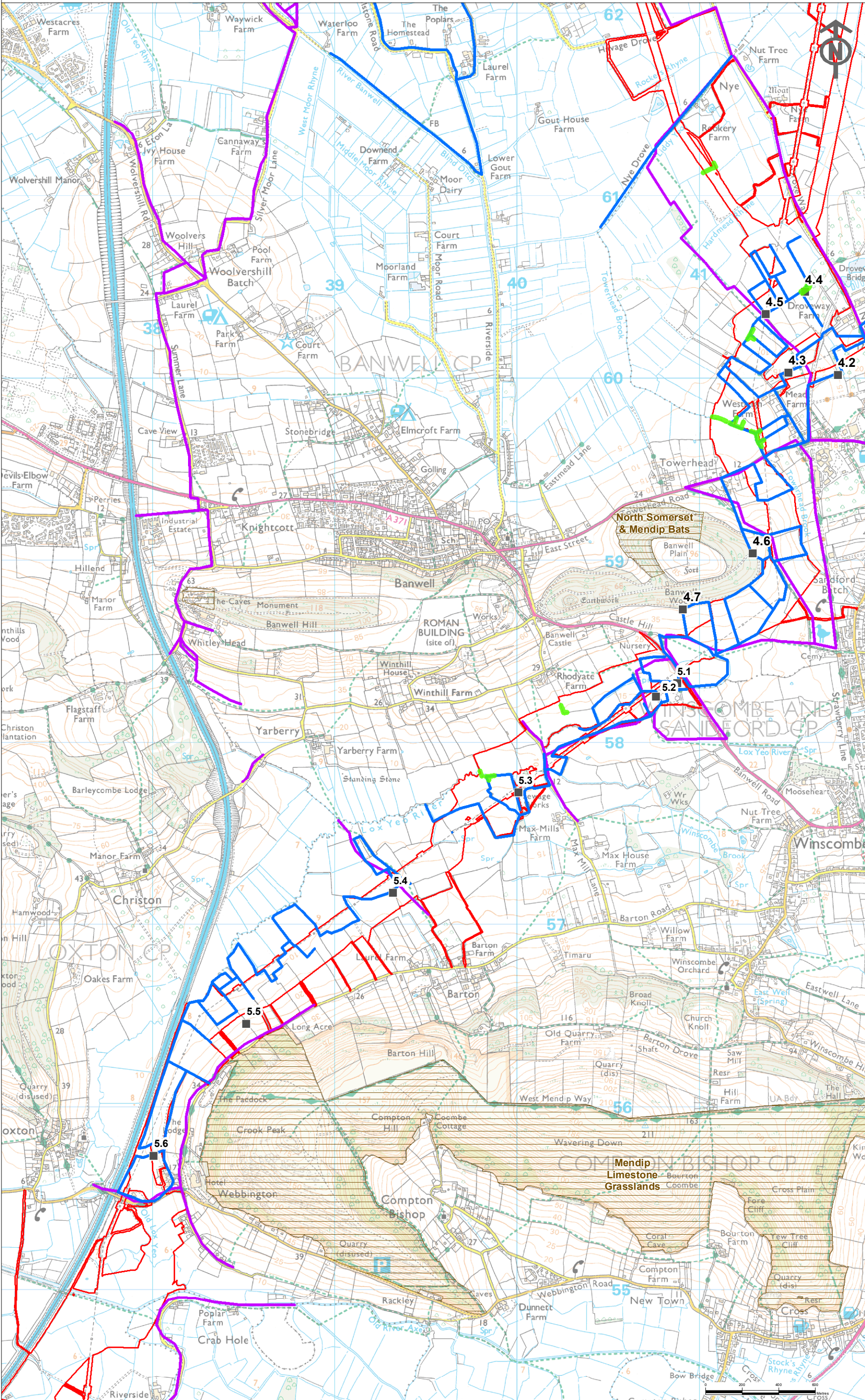
nationalgrid
National Grid plc, Warwick Technology Park, Parkway, CV34 9EF

NG INVESTMENT NO.	APPLICATION NO.	GIS
20897	EN020001	A3
FIGURE NO.	DRAWING NO.	SCALE
8.37.2	G1979.2245.2.C	1:250,000
SHEET 2 OF 2		ISSUE
		A

Figure 8.38 – SAC Impacts – Bat Survey Scope

NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS
BAT SURVEY SCOPE



- Key**
- Proposed Infrastructure
 - Order Limits
 - Ecological Designations
 - Special Area of Conservation
 - Bat Survey
 - Static Bat Recorder Locations 2012
 - Dusk/Dawn Tree Surveys 2013
 - Transect Study Areas
 - 2012 Transects
 - 2010 Transects

Notes

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence No. 100024241 2014.

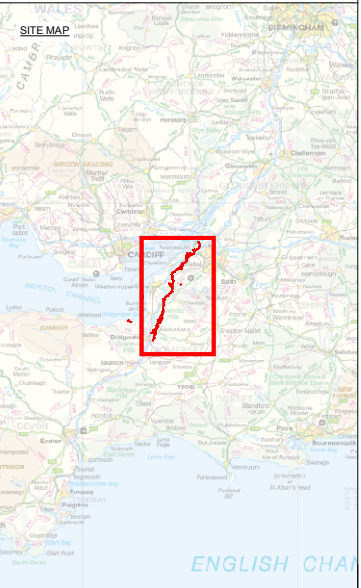
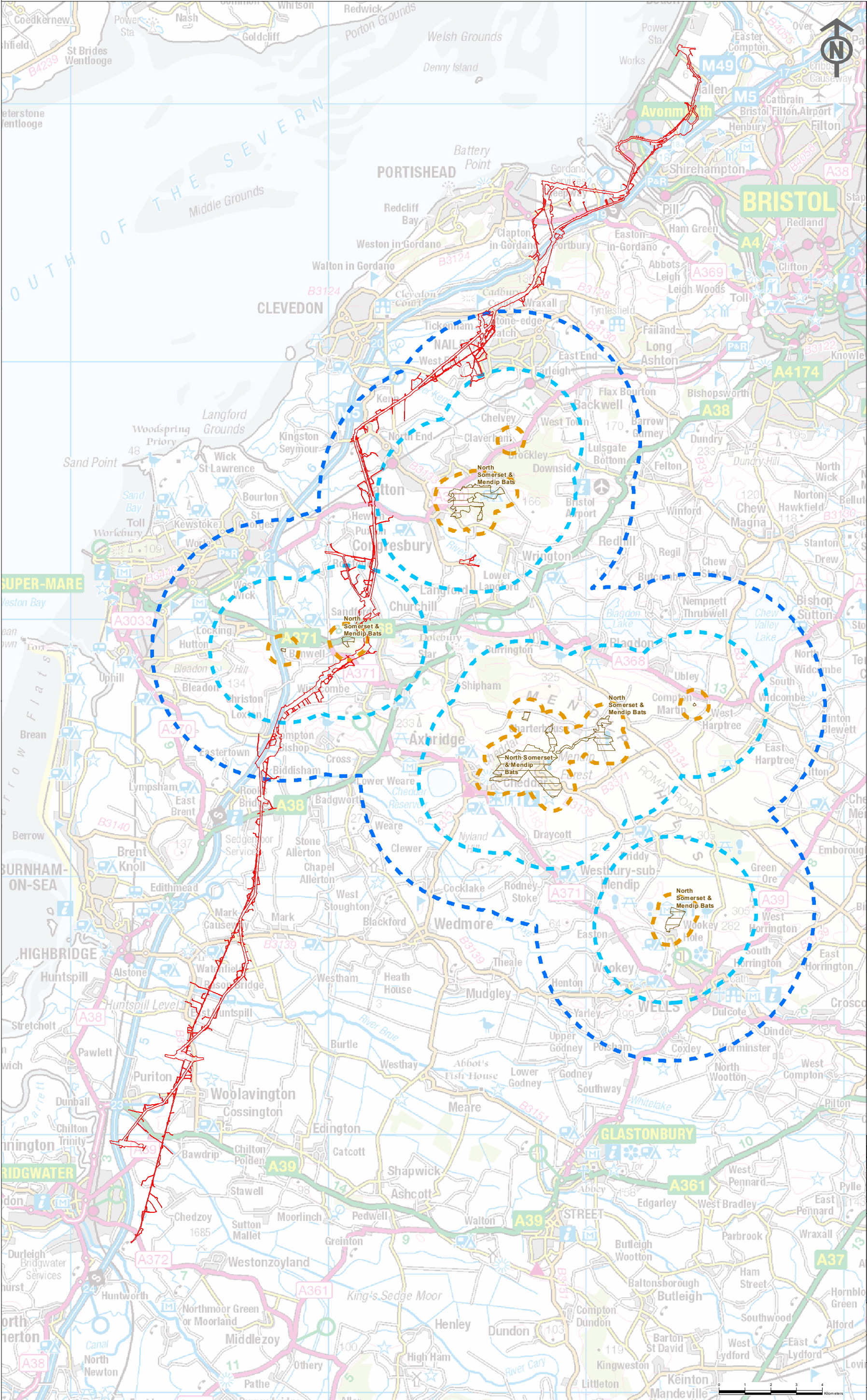
Title
NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS
BAT SURVEY SCOPE

nationalgrid		nationalgrid	
National Grid plc, Warwick Technology Park, Galsborough Road, Warwick, CV34 6DA		National Grid plc, Warwick Technology Park, Galsborough Road, Warwick, CV34 6DA	
NG INVESTMENT NO.	APPLICATION NO.	GIS	
20897	EN020001	A3	
FIGURE NO.	DRAWING NO.	SCALE	
8.38	G1979.2247.C	1:20,000	
SHEET 1 OF 1		ISSUE	
		A	

Figure 8.39 – SAC Impacts – Lesser Horseshoe Bat

SAC IMPACTS
LESSER HORSESHOE BAT
OVERVIEW



Key

Proposed Infrastructure

- Order Limits

Ecological Designations

- Special Area of Conservation

Buffers

- Lesser Horseshoe 500m Buffer
- Lesser Horseshoe 2750m Buffer
- Lesser Horseshoe 5000m Buffer

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
Licence No. 100024241 2013.

A	07/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APP'D

Title
NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

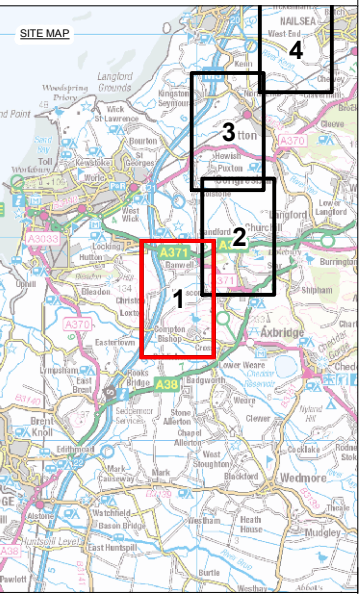
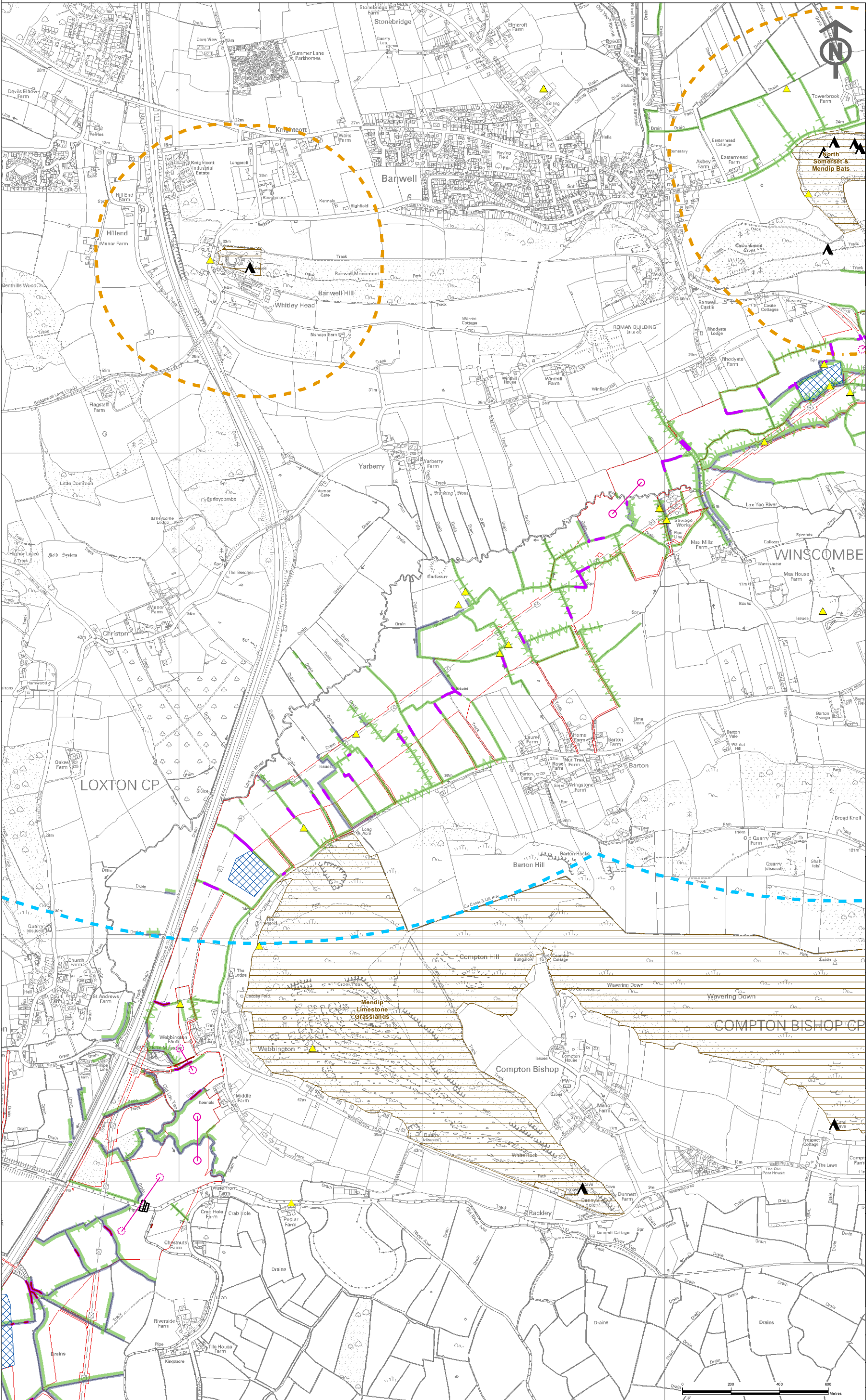
SAC IMPACTS
LESSER HORSESHOE BAT
OVERVIEW

nationalgrid
National Grid plc, Warwick Technology Park, Galsbrooke Way, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.	GIS A3
20897	EN020001	
FIGURE No.	DRAWING No.	SCALE 1:141,334
8.39.1	G1979.2200.C	ISSUE A

SHEET 1 OF 6

SAC IMPACTS
LESSER HORSESHOE BAT
INSET 1



- Key**
- Proposed Infrastructure**
 - Order Limits
 - Bridges
 - HDD Markers
 - HDD Markers (Possible)
 - HDD Cables
 - Proposed Compound / Laydown Area
 - Buffers**
 - Lesser Horseshoe 500m Buffer
 - Lesser Horseshoe 2750m Buffer
 - Lesser Horseshoe 5000m Buffer
 - Hedgerow Loss**
 - Hedgerow Loss to Construction
 - Bat Record - Survey & Desktop**
 - Lesser Horseshoe Bat
 - Ecological Designations**
 - Special Area of Conservation
 - Approximate Location of Cave Entrance

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
Licence No. 100024241 2013.

A	07/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
D	ISSUE	DATE	COMMENTS	DRAW	CHKD APP'D

Title
NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

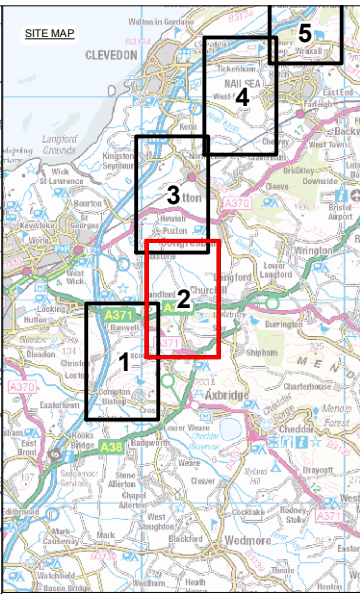
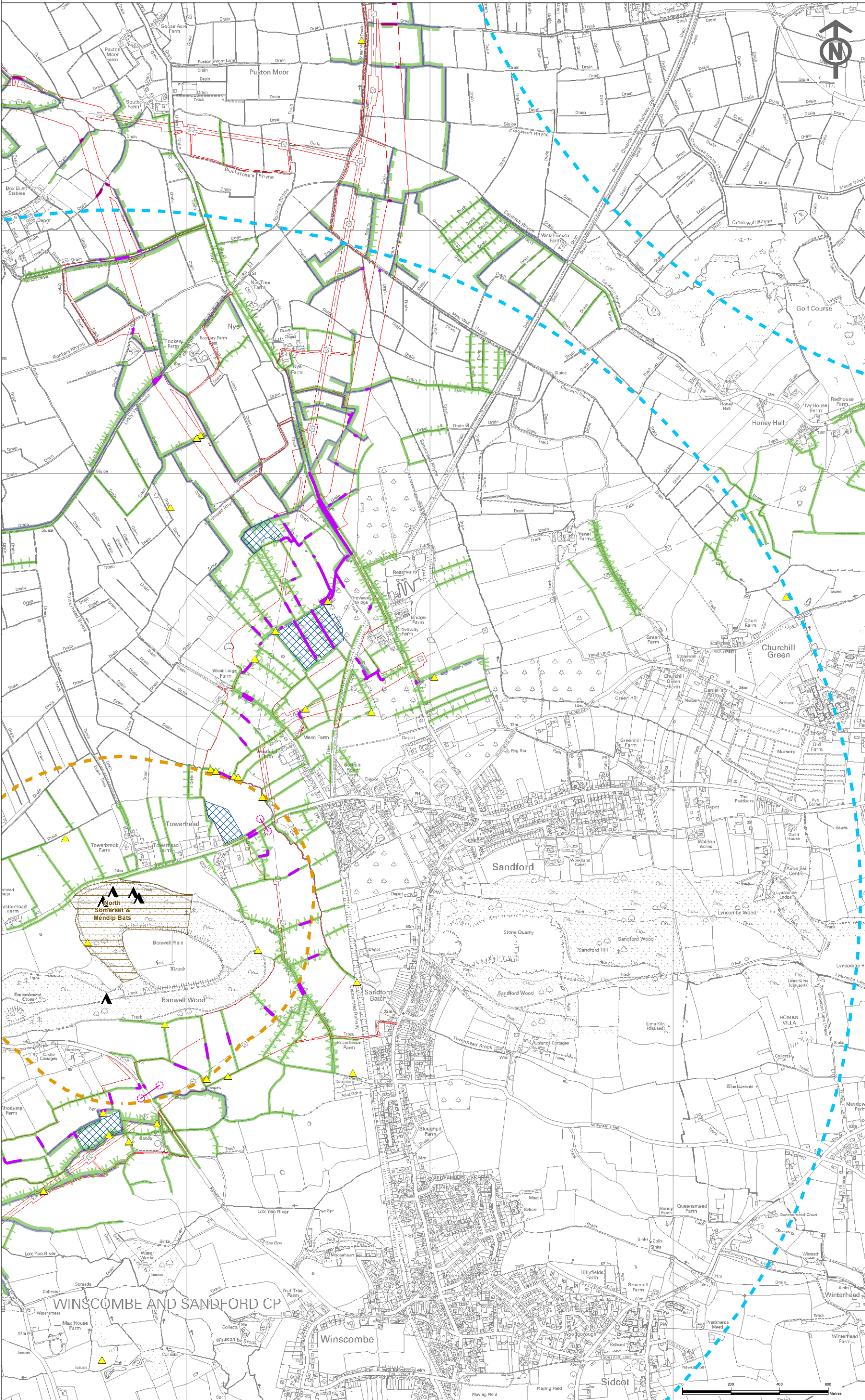
SAC IMPACTS
LESSER HORSESHOE BAT
INSET 1

nationalgrid
National Grid plc, New Works Technology Park, Gables Hill, Walsley, CV38 2DA

NG INVESTMENT NO.	APPLICATION NO.	GIS A3
20897	EN020001	
FIGURE NO.	DRAWING NO.	SCALE 1:15,000
8.39.2	G1979.2201.1.C	ISSUE A

SHEET 2 OF 6

SAC IMPACTS
LESSER HORSESHOE BAT
INSET 2



- Key**
- Proposed Infrastructure
 - Order Limits
 - Bridges
 - HDD Markers (Possible)
 - HDD Cables
 - Proposed Compound / Laydown Area
 - Buffers
 - Lesser Horseshoe 500m Buffer
 - Lesser Horseshoe 2750m Buffer
 - Lesser Horseshoe 5000m Buffer
 - Hedgerow Loss
 - Hedgerow Loss to Construction
 - Bat Record - Survey & Desktop
 - Lesser Horseshoe Bat
 - Ecological Designations
 - Special Area of Conservation
 - Approximate Location of Cave Entrance

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673

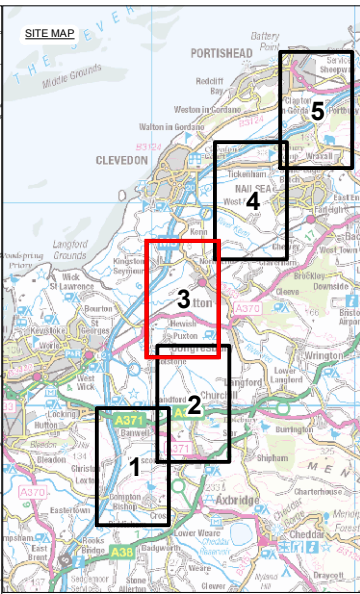
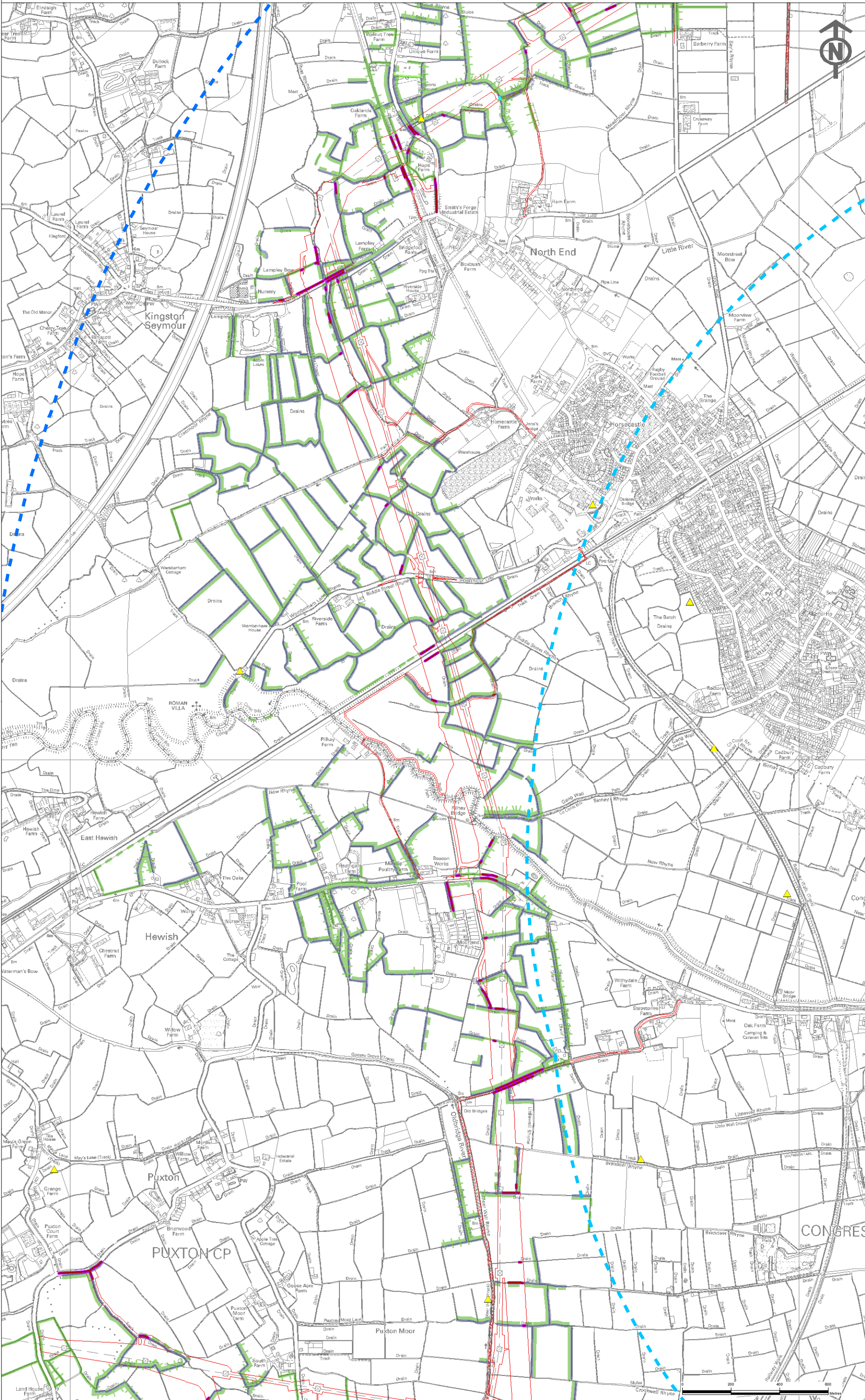
This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence No. 100024241 2013.

Title
NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS
LESSER HORSESHOE BAT
INSET 2

 National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA			
NG INVESTMENT No. 20897		APPLICATION No. EN020001	
		GIS A3	
FIGURE No. 8.39.3		DRAWING No. G1979.2201.2.C	
		SCALE 1:15,000	
		ISSUE A	
SHEET 3 OF 6			

SAC IMPACTS
LESSER HORSESHOE BAT
INSET 3



- Key**
- Proposed Infrastructure
 - Order Limits
 - Lesser Horseshoe 2750m Buffer
 - Lesser Horseshoe 5000m Buffer
 - Hedgerow Loss
 - Hedgerow Loss to Construction
 - Bat Record - Survey & Desktop
 - Lesser Horseshoe Bat

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence No. 100024241 2013.

A	07/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APP'D

Title
NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

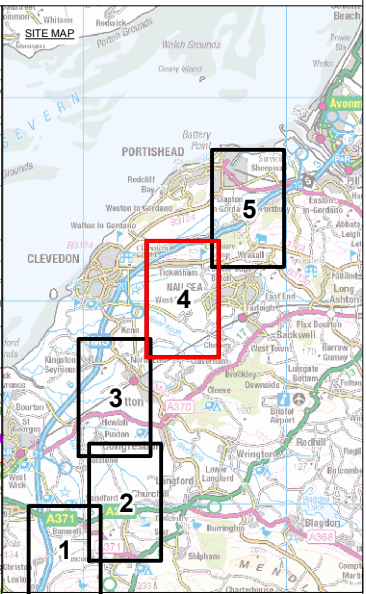
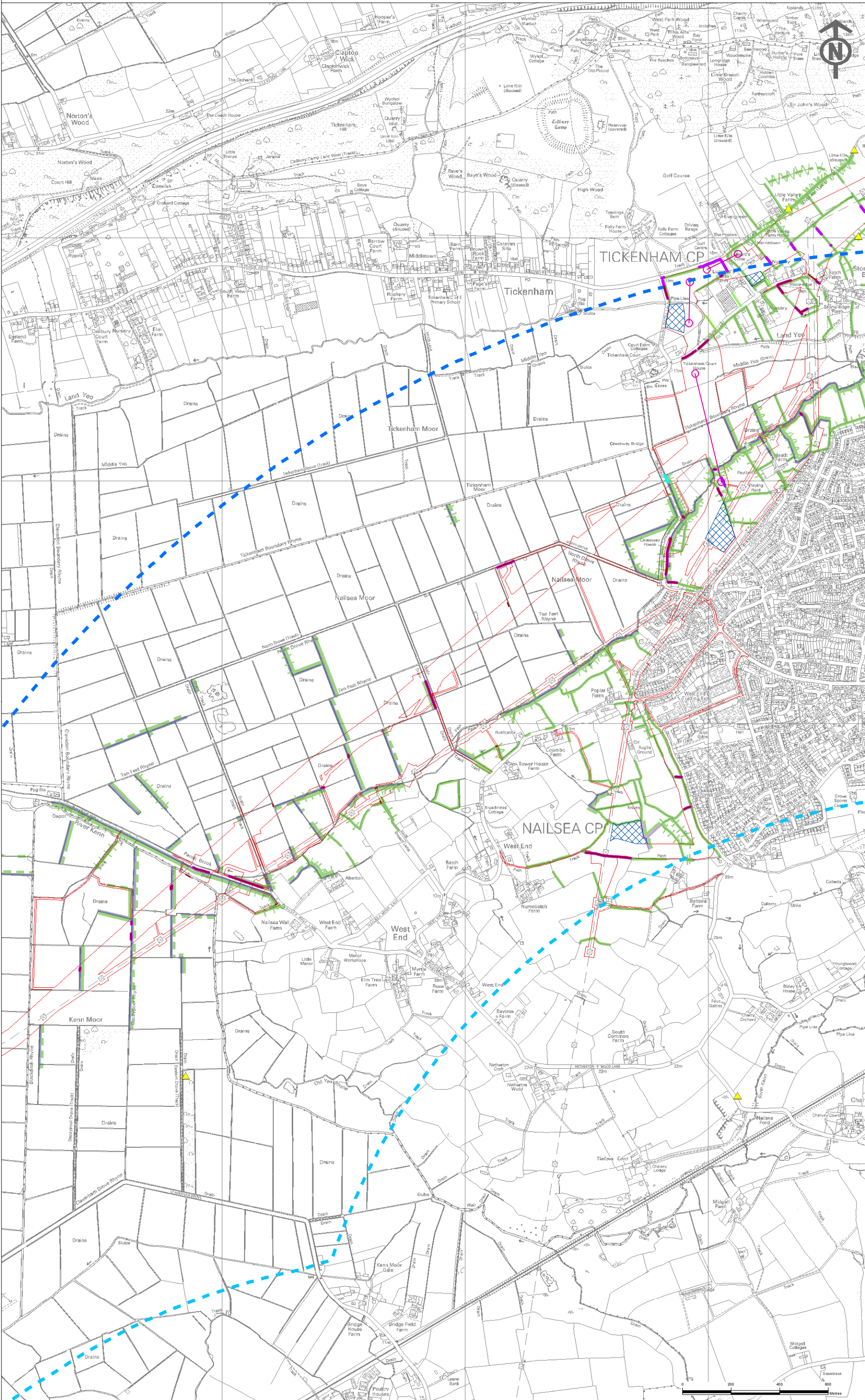
SAC IMPACTS
LESSER HORSESHOE BAT
INSET 3

nationalgrid
National Grid plc, Warwick Technology Park, Station Hill, Warwick, CV34 6DA

NG INVESTMENT NO.	APPLICATION NO.	GIS A3
20897	EN020001	
FIGURE NO.	DRAWING NO.	SCALE 1:15,000
8.39.4	G1979.2201.3.C	ISSUE A

SHEET 4 OF 6

SAC IMPACTS
LESSER HORSESHOE BAT
INSET 4



- Key**
- Proposed Infrastructure**
- Order Limits
 - HDD Markers
 - HDD Cables
 - Proposed Compound / Laydown Area
- Buffers**
- Lesser Horseshoe 500m Buffer
 - Lesser Horseshoe 2750m Buffer
 - Lesser Horseshoe 5000m Buffer
- Hedgerow Loss**
- Hedgerow Loss to Construction
- Bat Record - Survey & Desktop**
- Lesser Horseshoe Bat

Note

This map includes data from the following sources:

- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
- © Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
- © Crown copyright 2014. All rights reserved.
- Licence number 0100031673

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence No. 100024241 2013.

Title

NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS
LESSER HORSESHOE BAT
INSET 4

nationalgrid

National Grid plc, Warwick Technology Park, Solihull HQ, Warwick, CV35 9DA

NG INVESTMENT NO. APPLICATION NO.

20897 EN020001

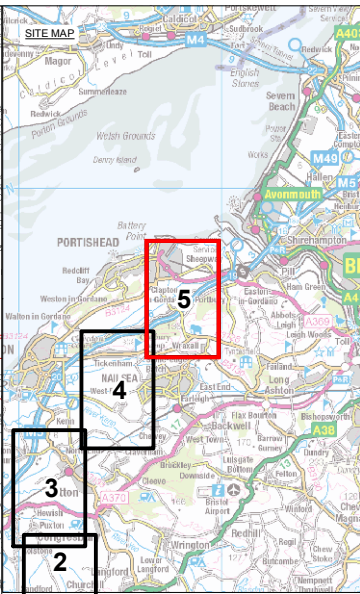
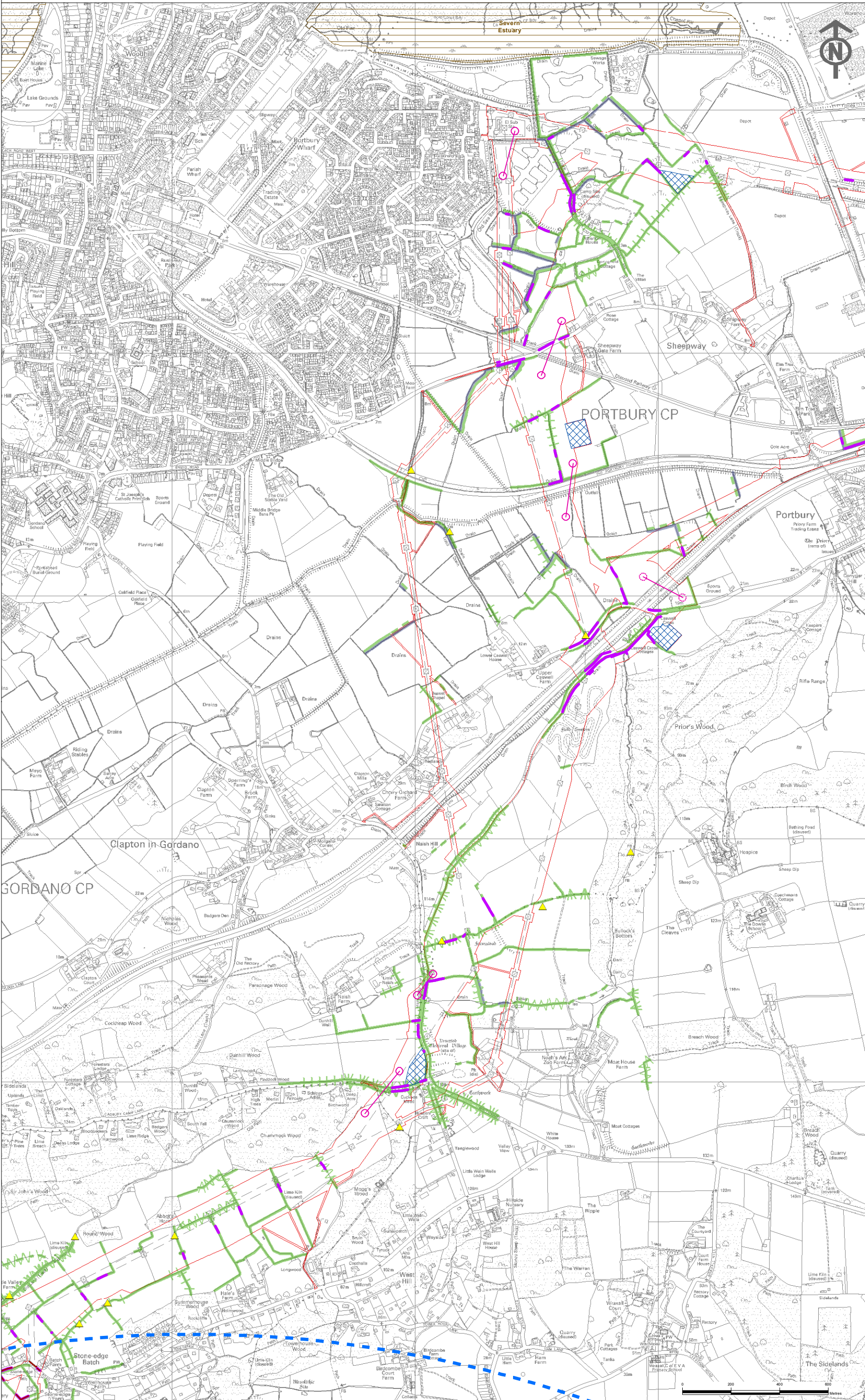
FIGURE NO. DRAWING NO.

8.39.5 G1979.2201.4.C

SCALE 1:15,000

ISSUE A

SAC IMPACTS
LESSER HORSESHOE BAT
INSET 5



- Key**
- Proposed Infrastructure
 - Order Limits
 - HDD Markers
 - HDD Markers (Possible)
 - HDD Cables
 - Proposed Compound / Laydown Area
 - Lesser Horseshoe 5000m Buffer
 - Hedgerow Loss
 - Hedgerow Loss to Construction
 - Bat Record - Survey & Desktop
 - Lesser Horseshoe Bat
 - Ecological Designations
 - Special Area of Conservation

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence No. 100024241 2013.

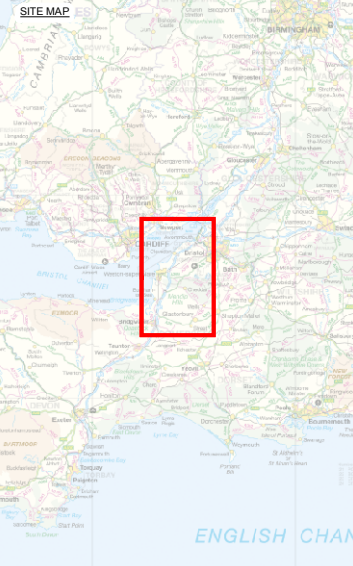
Title
NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS
LESSER HORSESHOE BAT
INSET 5

nationalgrid
National Grid plc, Warwick Technology Park, Station Hill, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.	GIS A3
20897	EN020001	
FIGURE No.	DRAWING No.	SCALE 1:15,000
8.39.6	G1979.2201.5.C	ISSUE A

Figure 8.40 – SAC Impacts – Greater Horseshoe Bat



Key

-  Order Limits
-  Ecological Designations
-  Buffers

 Greater Horseshoe 500m Buffer

 Greater Horseshoe 3400m Buffer

 Greater Horseshoe 5750m Buffer

Note
This map includes data from the following sources:

- National Grid
- Ordnance Survey
- Contains Ordnance Survey data

© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
Licence No. 100024241 2014.

A	06/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHK'D	APP'D

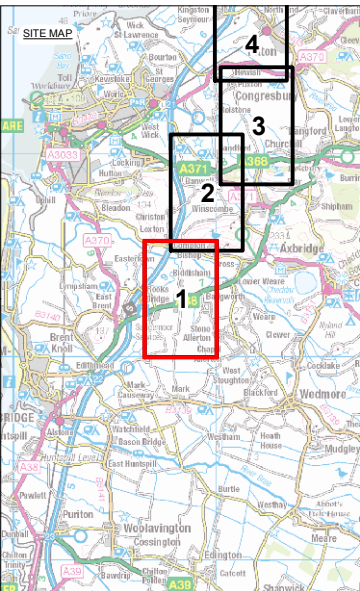
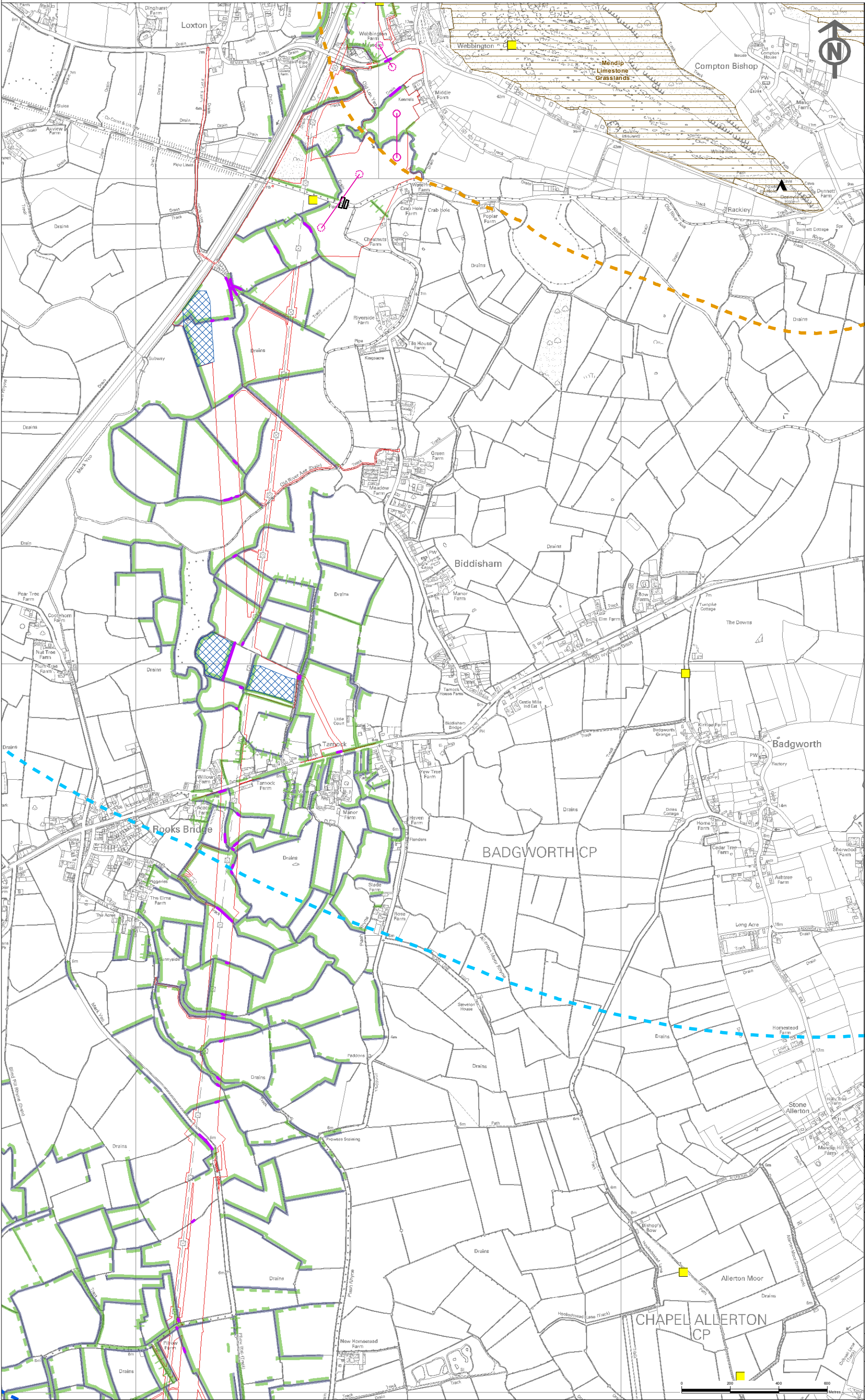
Title NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS GREATER HORSESHOE BAT OVERVIEW

national**grid**

NG INVESTMENT No. 20897	APPLICATION No. EN020001		GIS A3
FIGURE No. 8.40.1	DRAWING No. G1979.2202.C		SCALE 1:150,000
SHEET 1 OF 7			ISSUE A

SAC IMPACTS
GREATER HORSESHOE BAT
INSET 1



- Key**
- Proposed Infrastructure**
- Order Limits
 - Bridges
 - HDD Markers
 - HDD Markers (Possible)
 - HDD Cables
 - Proposed Compound / Laydown Area
- Buffers**
- Greater Horseshoe 500m Buffer
 - Greater Horseshoe 3400m Buffer
 - Greater Horseshoe 5750m Buffer
- Hedgerow Loss**
- Hedgerow Loss to Construction
- Bat Record - Survey & Desktop**
- Greater Horseshoe Bat
- Ecological Designations**
- Special Area of Conservation
- Approximate Location of Cave Entrance**

Note

This map includes data from the following sources:

- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
- © Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
- © Crown copyright 2014. All rights reserved.
- Licence number 0100031673

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence No. 100024241 2014.

Title

NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

**SAC IMPACTS
GREATER HORSESHOE BAT
INSET 1**

nationalgrid

National Grid plc, Warwick Technology Park, Solihull HQ, Warwick, CV35 9DA

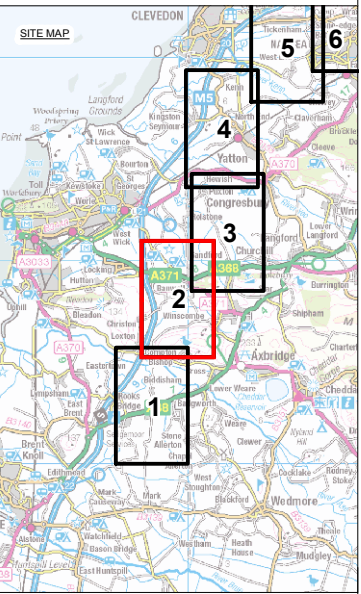
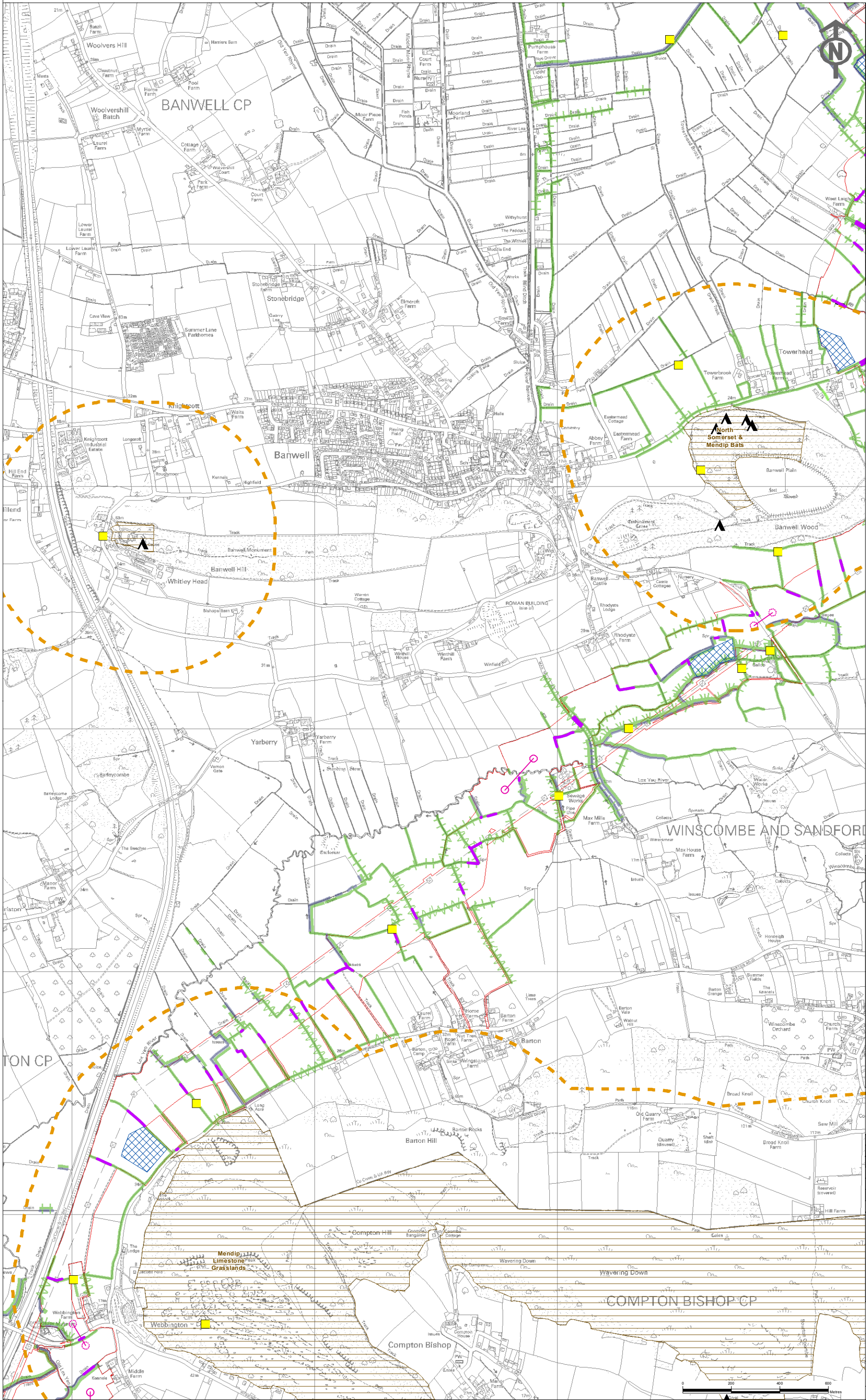
NG INVESTMENT No. 20897 **APPLICATION No.** EN020001 **GIS** A3

FIGURE No. 8.40.2 **DRAWING No.** G1979.2203.1.C **SCALE** 1:15,000

ISSUE A

SHEET 2 OF 7

SAC IMPACTS
GREATER HORSESHOE BAT
INSET 2



- Key**
- Proposed Infrastructure
 - Order Limits
 - Bridges
 - HDD Markers
 - HDD Markers (Possible)
 - HDD Cables
 - Proposed Compound / Laydown Area
 - Buffers
 - Greater Horseshoe 500m Buffer
 - Greater Horseshoe 3400m Buffer
 - Greater Horseshoe 5750m Buffer
 - Hedgerow Loss
 - Hedgerow Loss to Construction
 - Bat Record - Survey & Desktop
 - Greater Horseshoe Bat
 - Ecological Designations
 - Special Area of Conservation
 - Approximate Location of Cave Entrance

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence No. 100024241 2014.

A	07/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APP'D

Title
NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

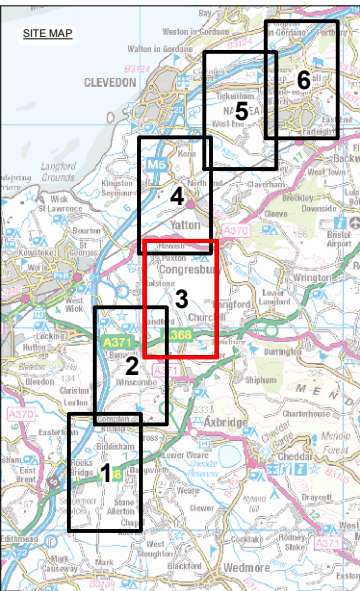
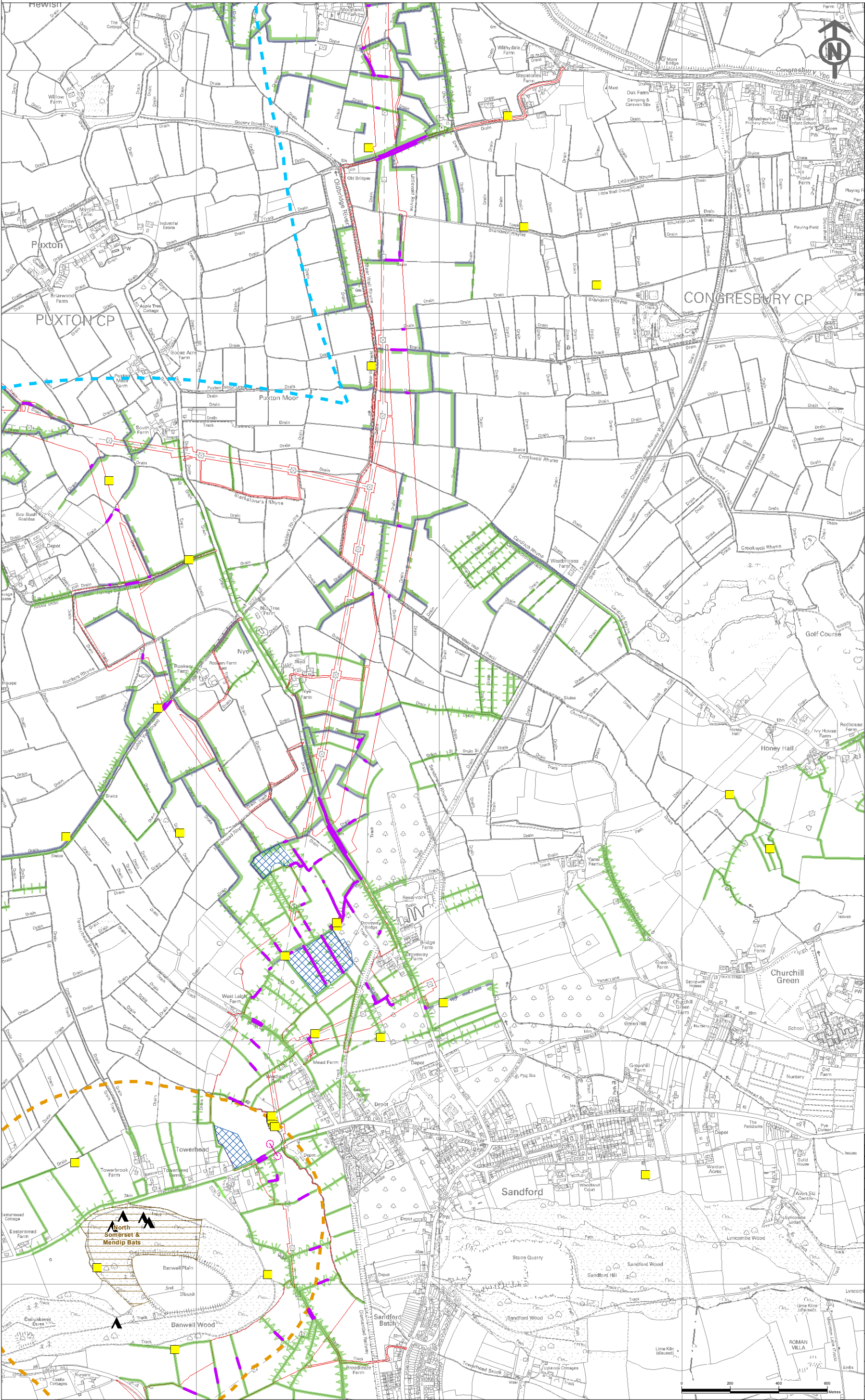
**SAC IMPACTS
GREATER HORSESHOE BAT
INSET 2**

nationalgrid
National Grid plc, Watlington Technology Park, Watlington, Oxford, OX29 4DA

NG INVESTMENT NO.	APPLICATION NO.	GIS A3
20897	EN020001	
FIGURE NO.	DRAWING NO.	SCALE 1:15,000
8.40.3	G1979.2203.2.C	ISSUE A

SHEET 3 OF 7

SAC IMPACTS
GREATER HORSESHOE BAT
INSET 3



- Key**
- Proposed Infrastructure**
 - Order Limits
 - Bridges
 - HDD Markers (Possible)
 - HDD Cables
 - Proposed Compound / Laydown Area
 - Buffers**
 - Greater Horseshoe 500m Buffer
 - Greater Horseshoe 3400m Buffer
 - Greater Horseshoe 5750m Buffer
 - Hedgerow Loss**
 - Hedgerow Loss to Construction
 - Bat Record - Survey & Desktop**
 - Greater Horseshoe Bat
 - Ecological Designations**
 - Special Area of Conservation
 - Approximate Location of Cave Entrance

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence No. 100024241 2014.

A	07/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APP'D

Title

NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

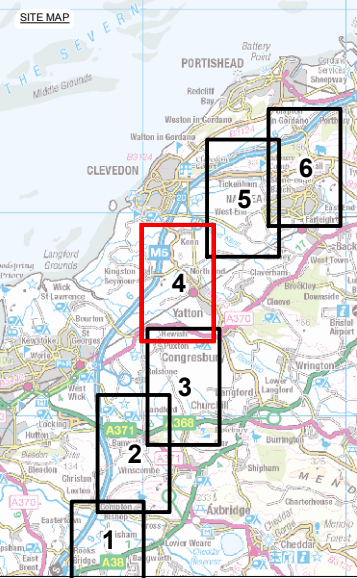
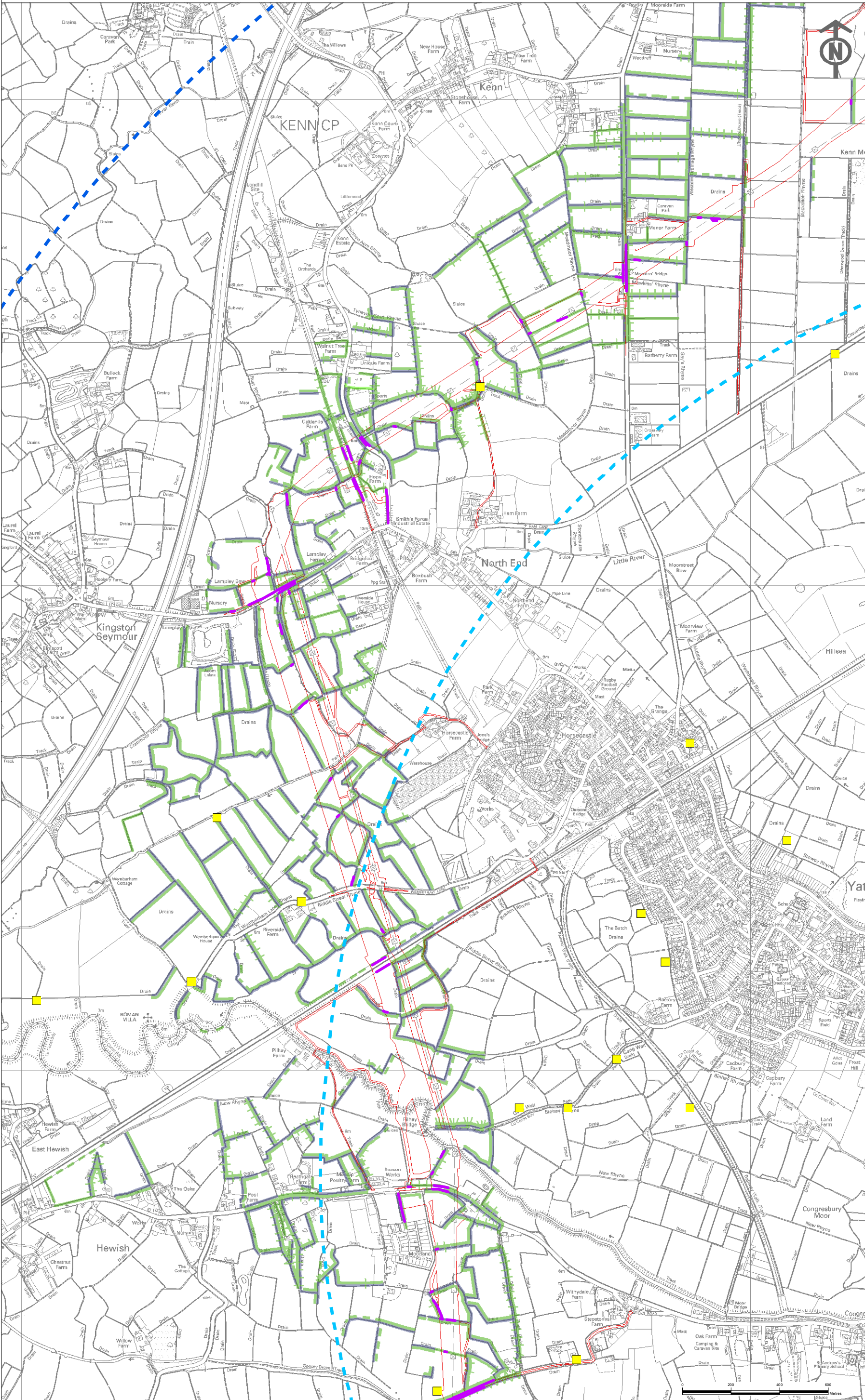
SAC IMPACTS
GREATER HORSESHOE BAT
INSET 3

nationalgrid

National Grid plc, Warwick Technology Park, Solihull HQ, Warwick, CV35 9DA

G INVESTMENT No.		APPLICATION No.		GIS	
20897		EN020001		A3	
FIGURE No.		DRAWING No.		SCALE	
8.40.4		G1979.2203.3.C		1:15,000	
SHEET 4 OF 7				ISSUE	
				A	

SAC IMPACTS
GREATER HORSESHOE BAT
INSET 4



- Key**
- Proposed Infrastructure
 - Order Limits
 - Greater Horseshoe 3400m Buffer
 - Greater Horseshoe 5750m Buffer
 - Hedgerow Loss
 - Hedgerow Loss to Construction
 - Bat Record - Survey & Desktop
 - Greater Horseshoe Bat

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
Licence No. 100024241 2014.

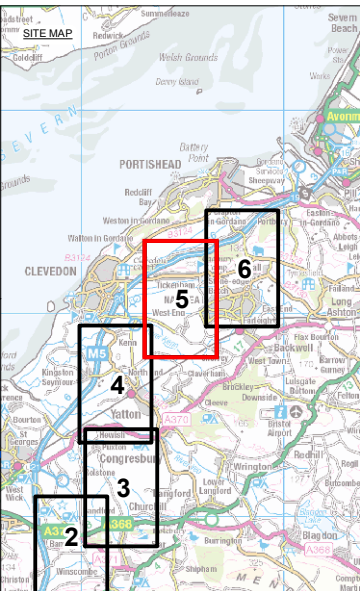
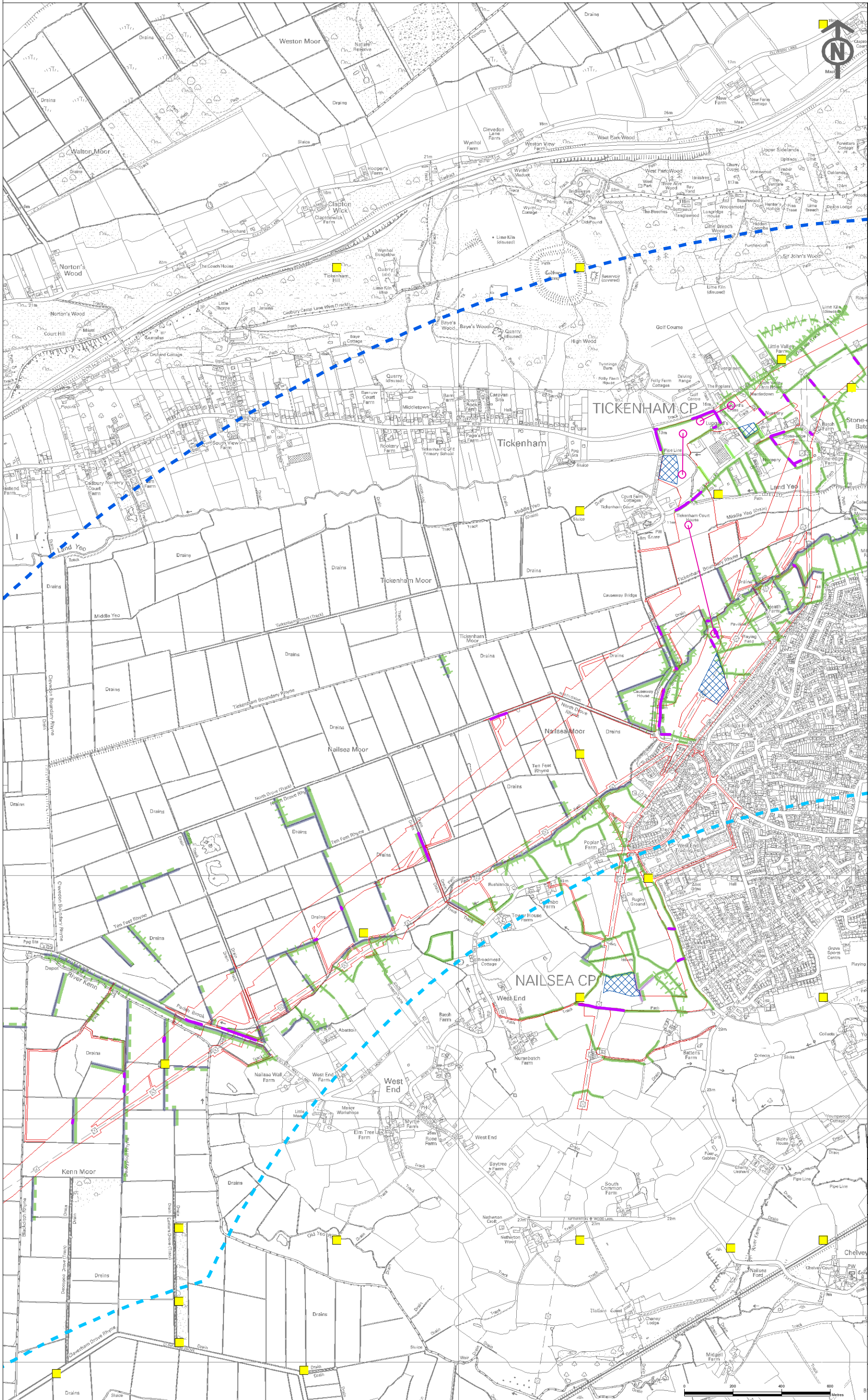
A	07/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title
NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS
GREATER HORSESHOE BAT
INSET 4

nationalgrid National Grid plc, Warwick Technology Park, Solihull Parkway, Birmingham, CV35 9EF		GIS A3	
NG INVESTMENT No.	APPLICATION No.	FIGURE No.	SCALE
20897	EN020001	8.40.5	1:15,000
DRAWING No.		ISSUE	
G1979.2203.4.C		A	

SAC IMPACTS
GREATER HORSESHOE BAT
INSET 5



- Key**
- Proposed Infrastructure
 - Order Limits
 - HDD Markers
 - HDD Cables
 - Proposed Compound / Laydown Area
 - Greater Horseshoe 3400m Buffer
 - Greater Horseshoe 5750m Buffer
 - Hedgerow Loss
 - Hedgerow Loss to Construction
 - Bat Record - Survey & Desktop
 - Greater Horseshoe Bat

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
Licence No. 100024241 2014.

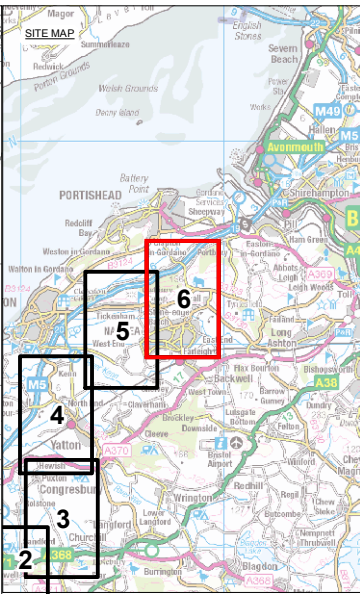
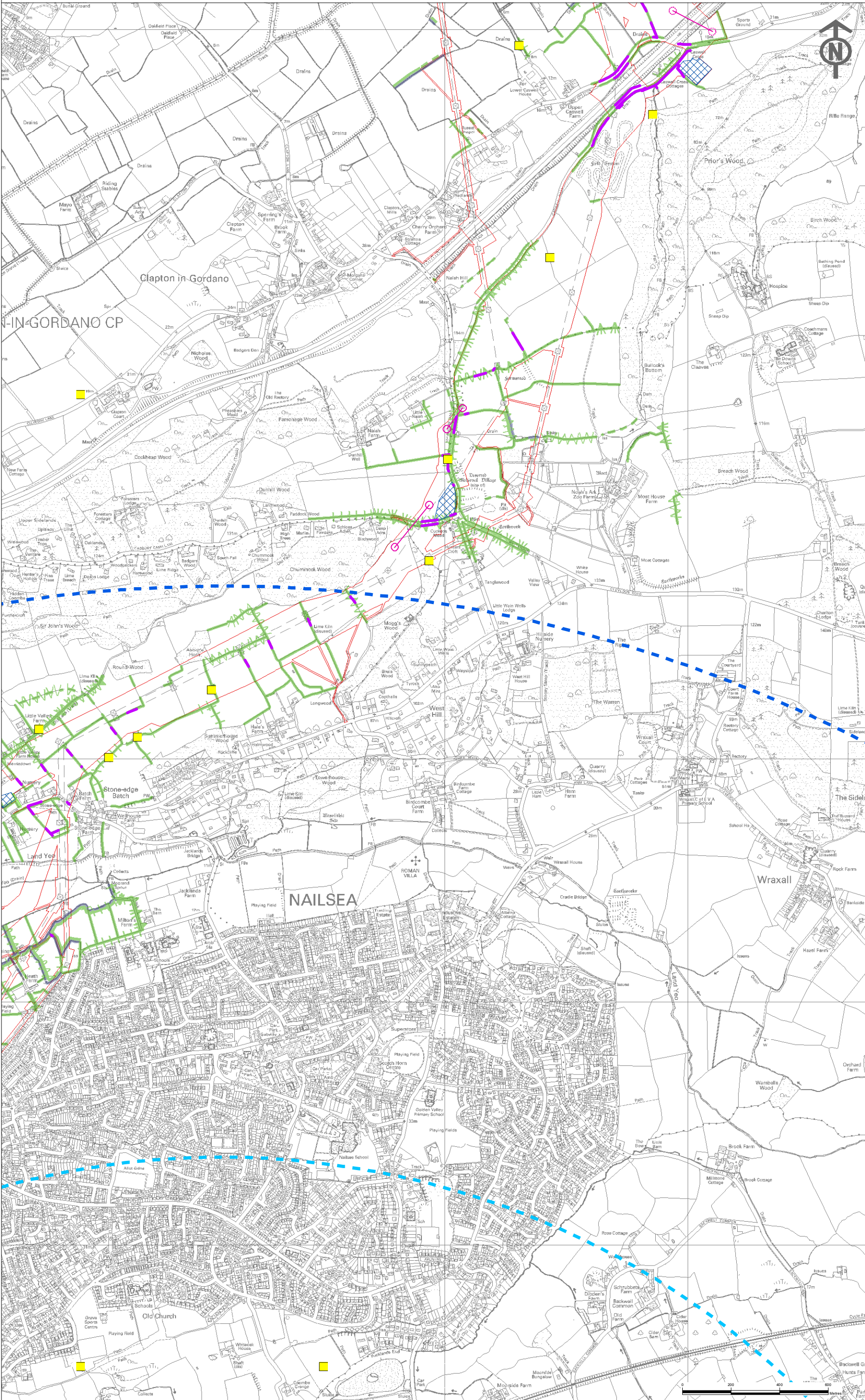
A	07/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APP'D

Title
NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS
GREATER HORSESHOE BAT
INSET 5

nationalgrid National Grid plc, Watlington Technology Park, Watlington, Oxford, OX10 9DA		
NG INVESTMENT No.	APPLICATION No.	GIS
20897	EN020001	A3
FIGURE No.	DRAWING No.	SCALE
8.40.6	G1979.2203.5.C	1:15,000
SHEET 6 OF 7		ISSUE
		A

SAC IMPACTS
GREATER HORSESHOE BAT
INSET 6



- Key**
- Proposed Infrastructure**
 - Order Limits
 - HDD Markers
 - HDD Markers (Possible)
 - HDD Cables
 - Proposed Compound / Laydown Area
 - Greater Horseshoe 3400m Buffer
 - Greater Horseshoe 5750m Buffer
 - Hedgerow Loss**
 - Hedgerow Loss to Construction
 - Bat Record - Survey & Desktop**
 - Greater Horseshoe Bat

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence No. 100024241 2014.

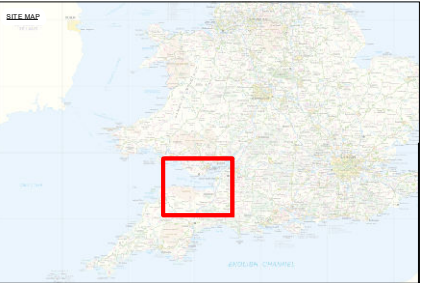
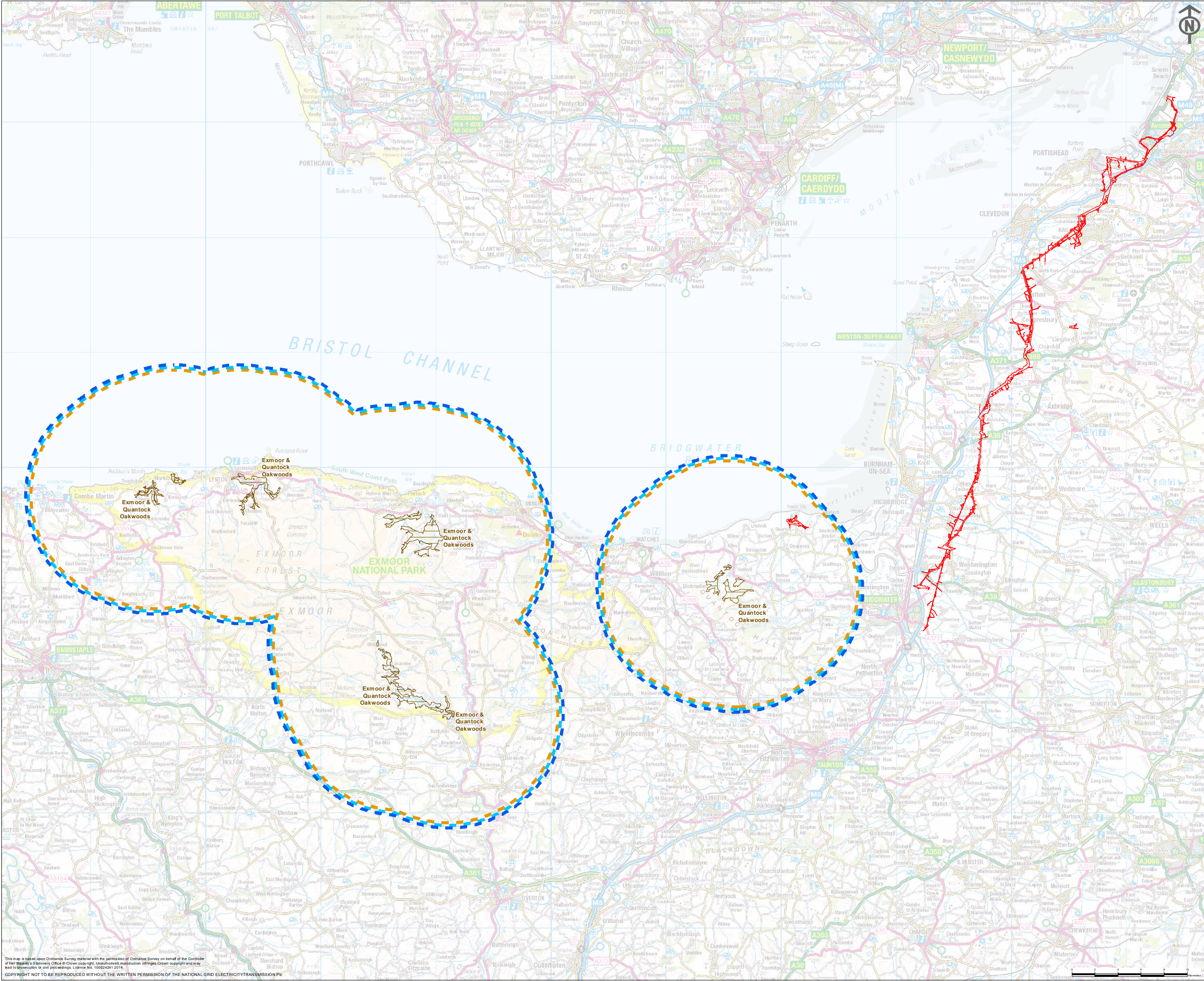
A	07/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APP'D

Title
NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS
GREATER HORSESHOE BAT
INSET 6

 National Grid plc, Watlington Technology Park, Watlington Hill, Watlington, Oxford, OX10 8DA			
NG INVESTMENT No.	APPLICATION No.		GIS
20897	EN020001		A3
FIGURE No.	DRAWING No.		SCALE
8.40.7	G1979.2203.6.C		1:15,000
			ISSUE
SHEET 7 OF 7			A

Figure 8.41 – SAC Impacts – Barbastelle & Bechstein's Bats



- Key**
- Proposed Infrastructure**
 - Order Limits
 - Ecological Designations**
 - Special Area of Conservation
 - Buffers**
 - Barbastelle 9000m Buffer
 - Barbastelle 9225m Buffer
 - Barbastelle 9450m Buffer

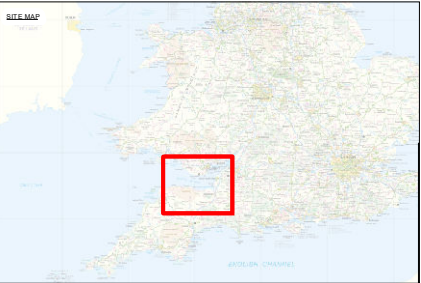
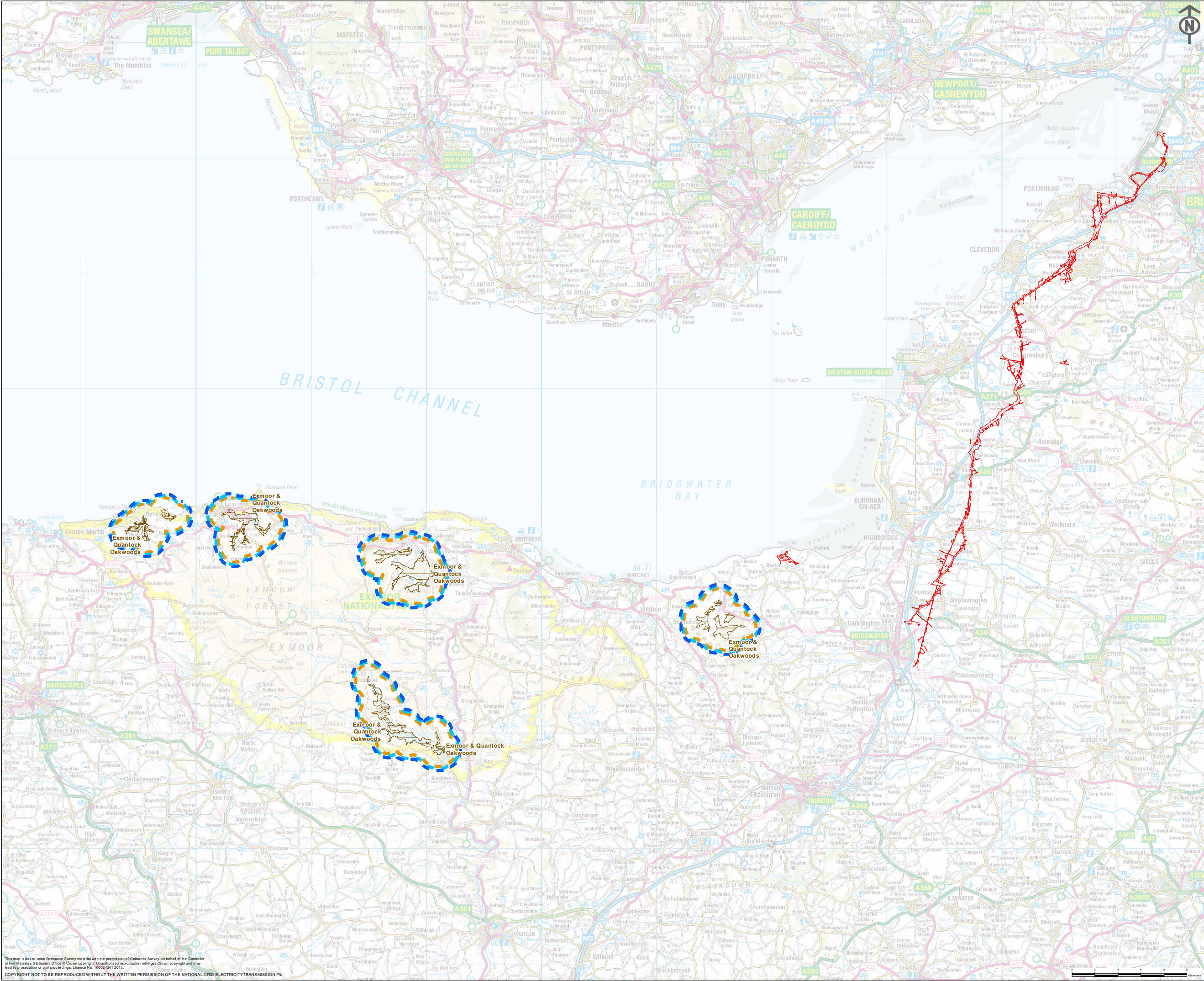
Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673

A	06/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title
NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS
BARBASTELLE OVERVIEW

nationalgrid		National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA	
NG INVESTMENT No.	APPLICATION No.	GIS	
20897	EN020001	A3	
FIGURE No.	DRAWING No.	SCALE	
8.41.1	G1979.2204.C	1:300,000	
SHEET 1 OF 2		ISSUE	
		A	



- Key**
- Proposed Infrastructure**
- Order Limits
- Ecological Designations**
- Special Area of Conservation
- Buffers**
- Bechstein 1000m Buffer
 - Bechstein 1200m Buffer
 - Bechstein 1355m Buffer

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2013.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2013. All rights reserved.
Licence number 0100031673

A	06/03/2014	DCO SUBMISSION	AH	EJS	EJS
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title
NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

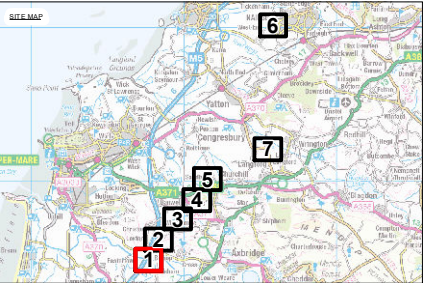
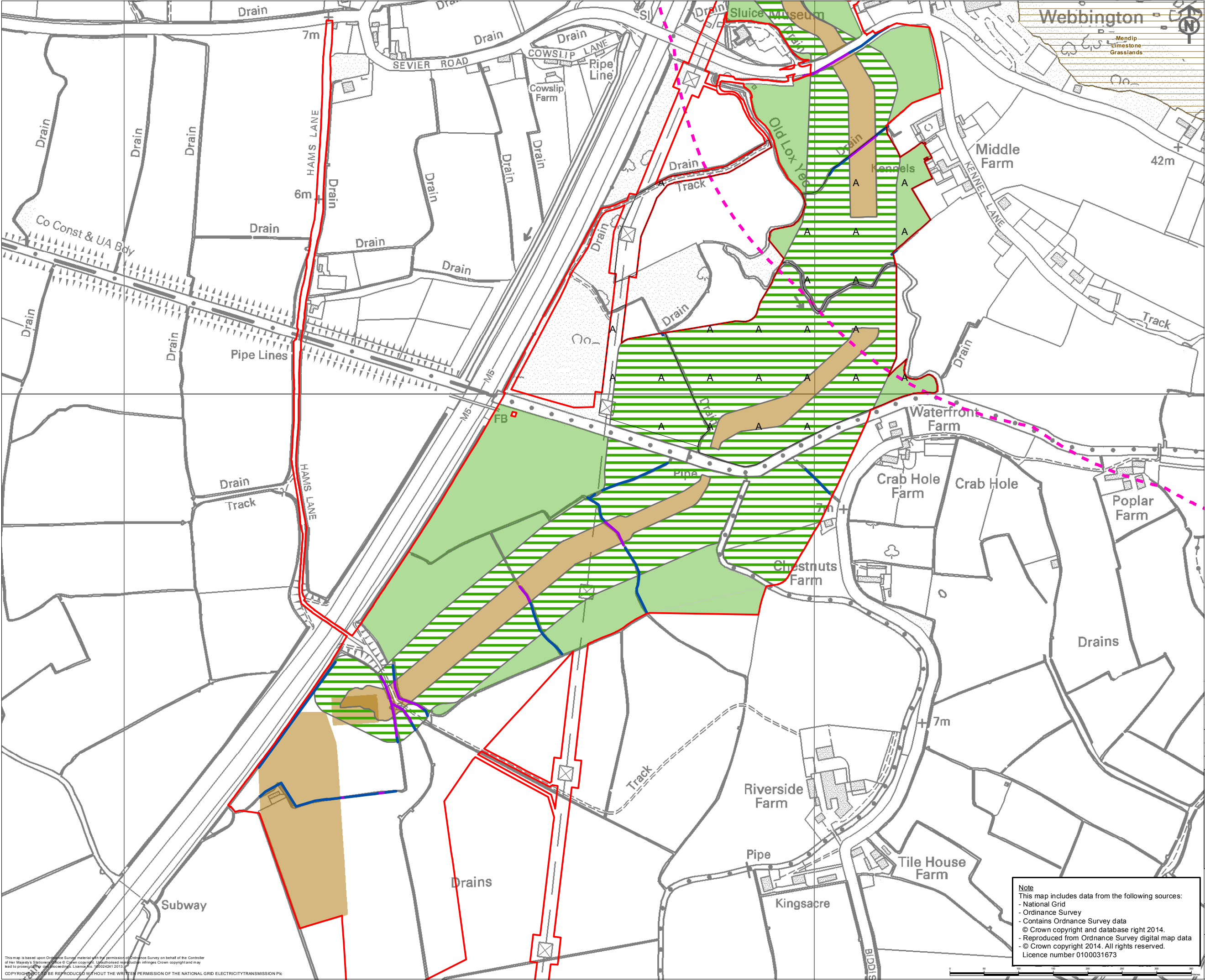
SAC IMPACTS
BECHSTEIN
OVERVIEW



National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.		APPLICATION No.			GIS
20897		EN020001			A3
FIGURE No.		DRAWING No.		SCALE	
8.41.2		G1979.2335.B		1:300,000	
SHEET 2 OF 2					ISSUE
					A

Figure 8.42 – SAC Impacts – Mitigation Habitats



- Key**
- Order Limits
 - Habitat Proposals**
 - Hedgerow to be lost
 - Hedgerow to be retained
 - Lesser Horseshoe 5000m Buffer
 - Greater Horseshoe 5750m Buffer
 - Greater Horseshoe 3400m Buffer
 - Greater Horseshoe 500m Buffer
 - Seeded Subsoil and Topsoil Stockpiles
 - Bat Foraging Areas
 - Bat Foraging Areas
 - Cable Working Area
 - Existing Arable Land
 - Ecological Designations**
 - Special Area of Conservation

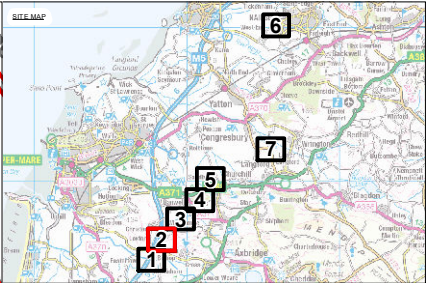
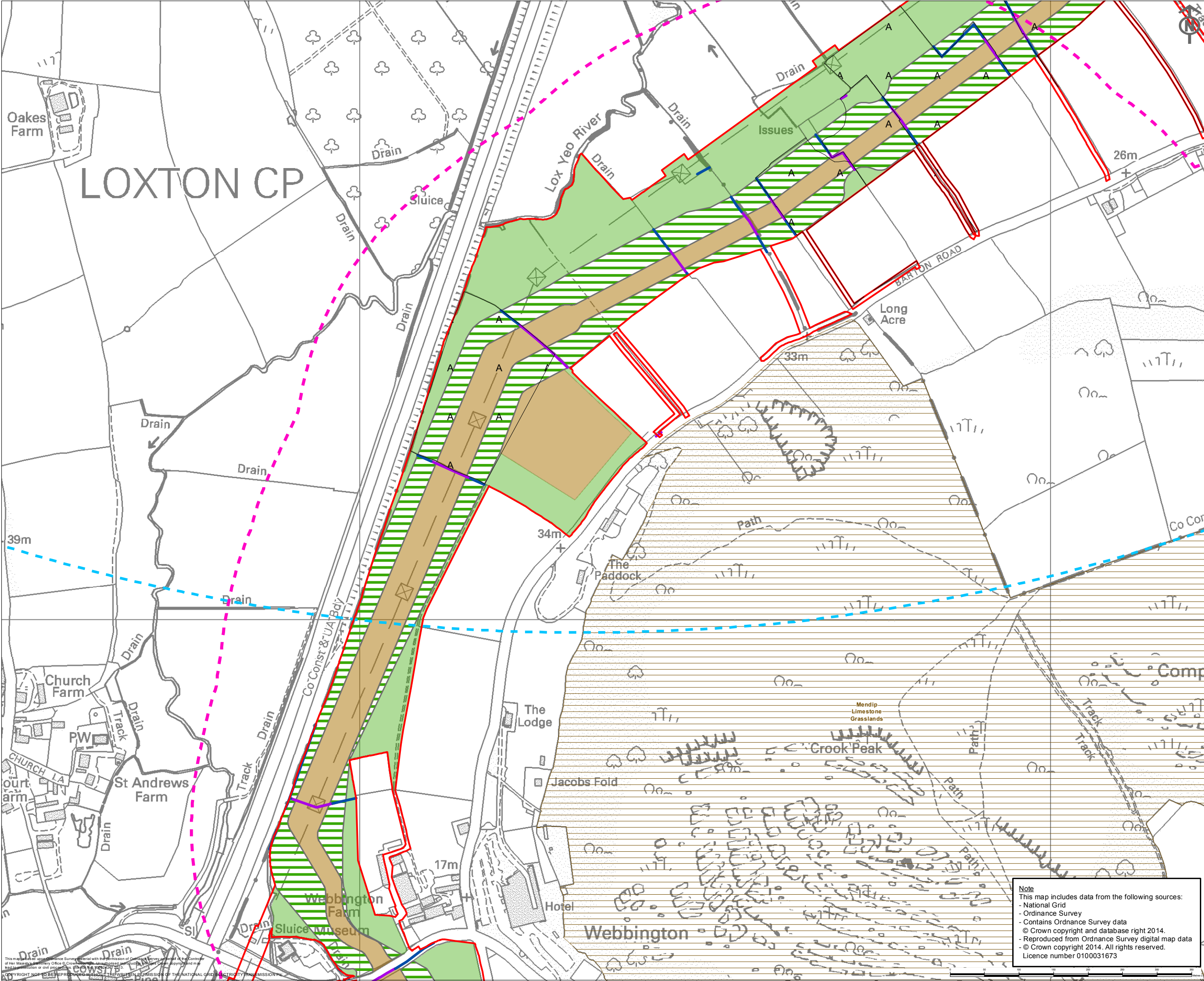
A	06/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title
NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS - MITIGATION
INSET 1

nationalgrid National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA			GIS
NG INVESTMENT No.	APPLICATION No.		A3
20897	EN020001		
FIGURE No.	DRAWING No.	SCALE	
8.42.1	G1979.2206.1.C	1:5,000	
SHEET 1 of 7			ISSUE
			A

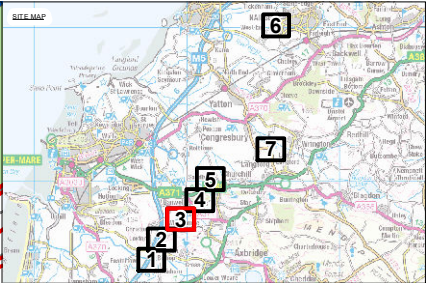
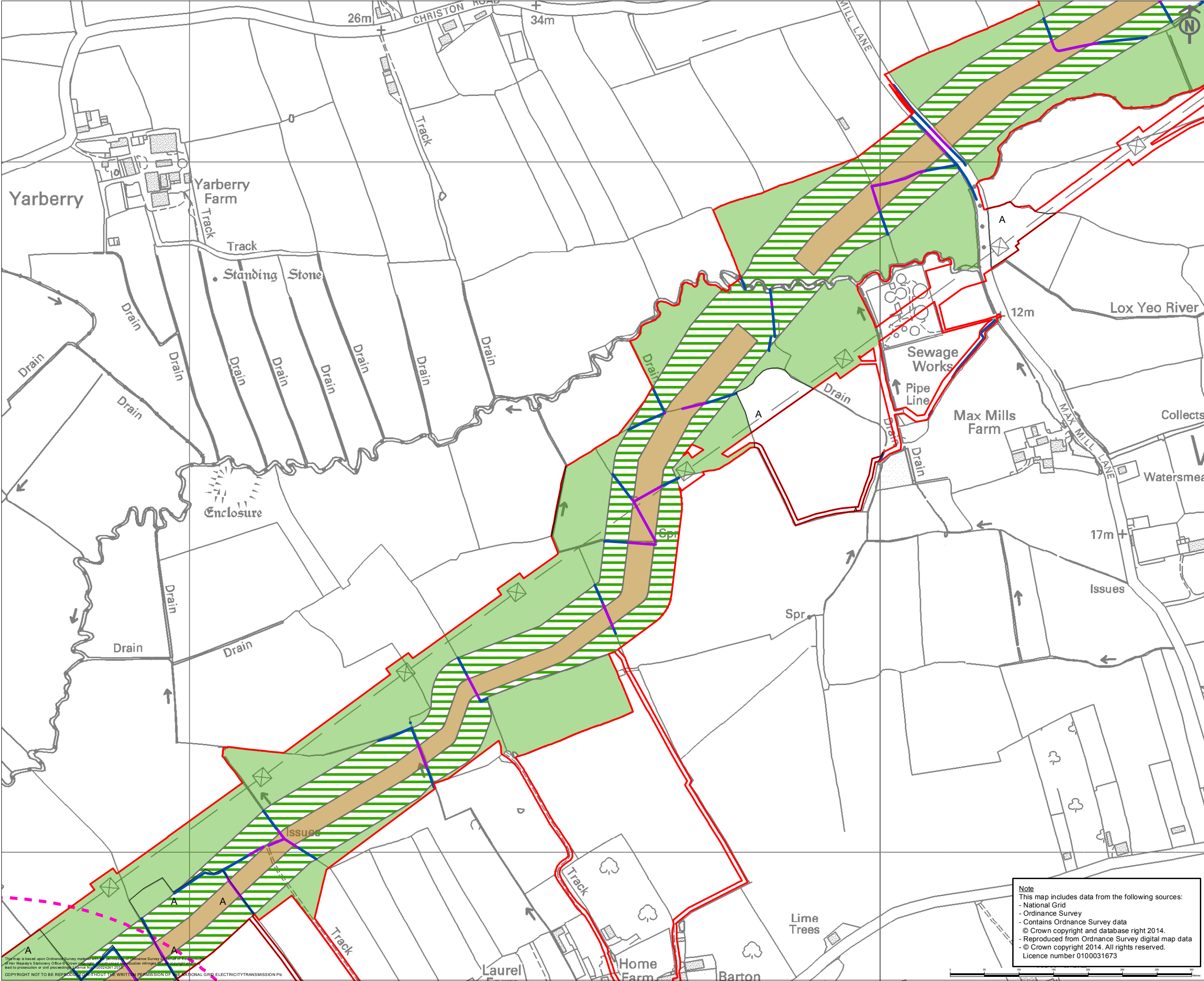
Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673



- Key**
- Order Limits
 - Habitat Proposals**
 - Hedgerow to be lost
 - Hedgerow to be retained
 - Lesser Horseshoe 5000m Buffer
 - Lesser Horseshoe 2750m Buffer
 - Greater Horseshoe 5750m Buffer
 - Greater Horseshoe 3400m Buffer
 - Greater Horseshoe 500m Buffer
 - Seeded Subsoil and Topsoil Stockpiles
 - Bat Foraging Areas
 - Bat Foraging Areas
 - Cable Working Area
 - Existing Arable Land
 - Ecological Designations**
 - Special Area of Conservation

A		06/03/2014	DCO SUBMISSION		AH	EJS	EJS/BC
ISSUE	DATE		COMMENTS		DRAW	CHKD	APPD
<u>Title</u> NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT) ENVIRONMENTAL STATEMENT VOLUME 5.8.3 SAC IMPACTS - MITIGATION INSET 2							
nationalgrid National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA							
NG INVESTMENT No.		APPLICATION No.			GIS		
20897		EN020001			A3		
FIGURE No.		DRAWING No.			SCALE		
8.42.2		G1979.2206.2.C			1:5,000		
SHEET 2 of 7						ISSUE	
						A	

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
- Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
- Crown copyright 2014. All rights reserved.
Licence number 0100031673



- Key**
- Order Limits
 - Habitat Proposals**
 - Hedgerow to be lost
 - Hedgerow to be retained
 - Lesser Horseshoe 5000m Buffer
 - Lesser Horseshoe 2750m Buffer
 - Greater Horseshoe 5750m Buffer
 - Greater Horseshoe 3400m Buffer
 - Greater Horseshoe 500m Buffer
 - Seeded Subsoil and Topsoil Stockpiles
 - Bat Foraging Areas
 - Bat Foraging Areas
 - Cable Working Area
 - Existing Arable Land

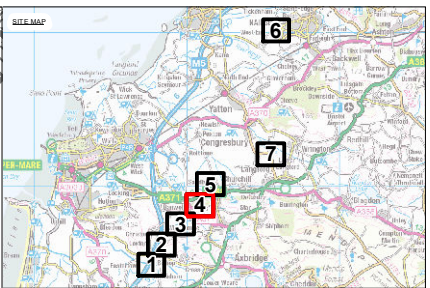
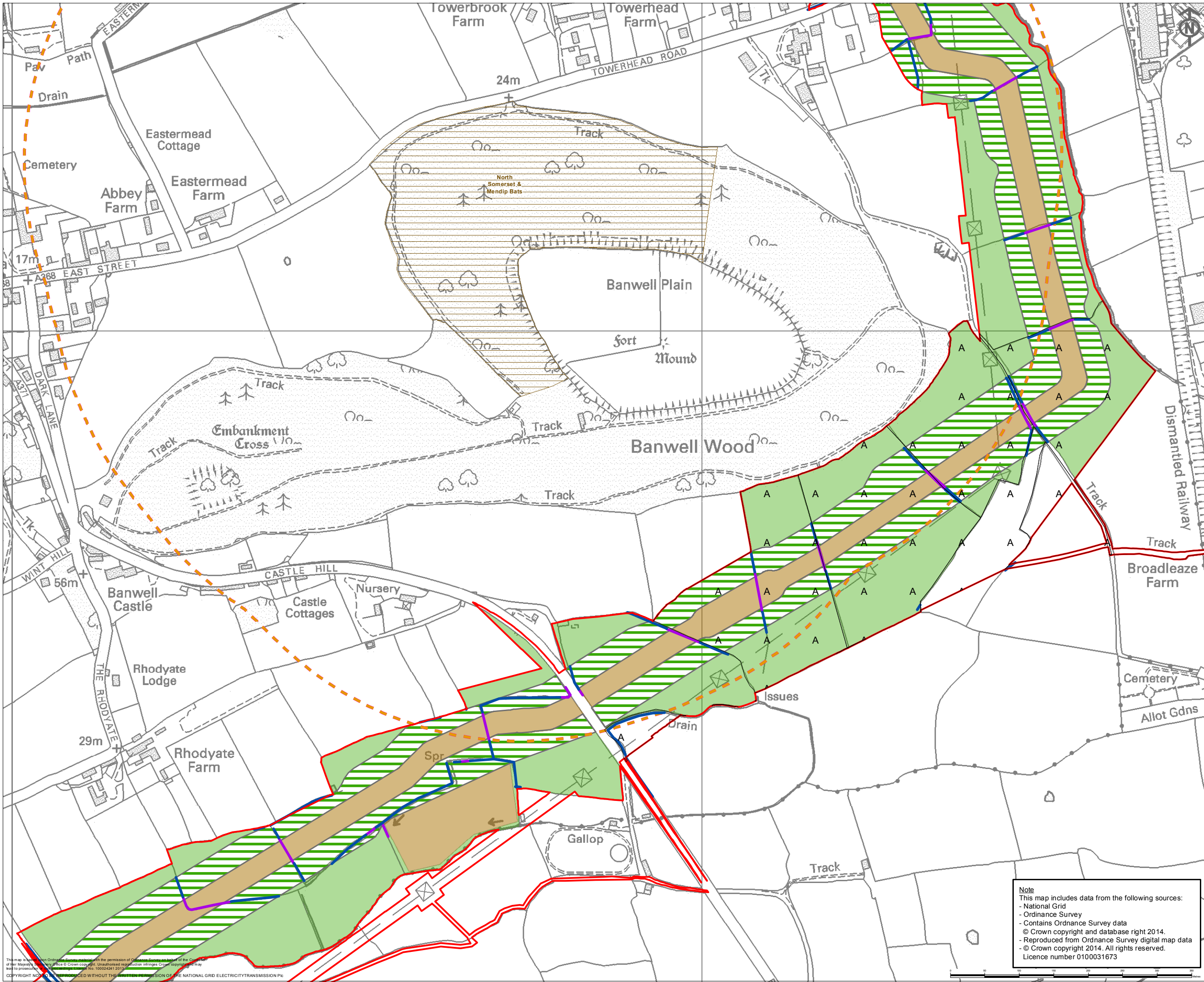
A	06/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title
NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS - MITIGATION
INSET 3

nationalgrid			
National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA			
NG INVESTMENT No.	APPLICATION No.		GIS
20897	EN020001		A3
FIGURE No.	DRAWING No.	SCALE	
8.42.3	G1979.2206.3.C	1:5,000	
SHEET 3 of 7			ISSUE
			A

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673



- Key**
- Order Limits
 - Habitat Proposals**
 - Hedgerow to be lost
 - Hedgerow to be retained
 - Buffers**
 - Lesser Horseshoe 500m Buffer
 - Lesser Horseshoe 5000m Buffer
 - Lesser Horseshoe 2750m Buffer
 - Greater Horseshoe 5750m Buffer
 - Greater Horseshoe 3400m Buffer
 - Greater Horseshoe 500m Buffer
 - Seeded Subsoil and Topsoil Stockpiles
 - Bat Foraging Areas
 - Bat Foraging Areas
 - Cable Working Area
 - Existing Arable Land
 - Ecological Designations**
 - Special Area of Conservation

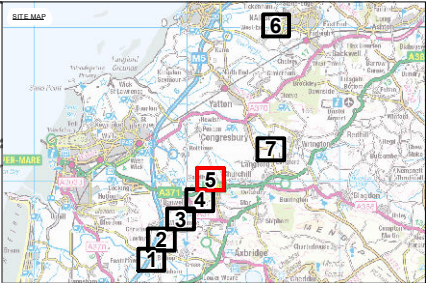
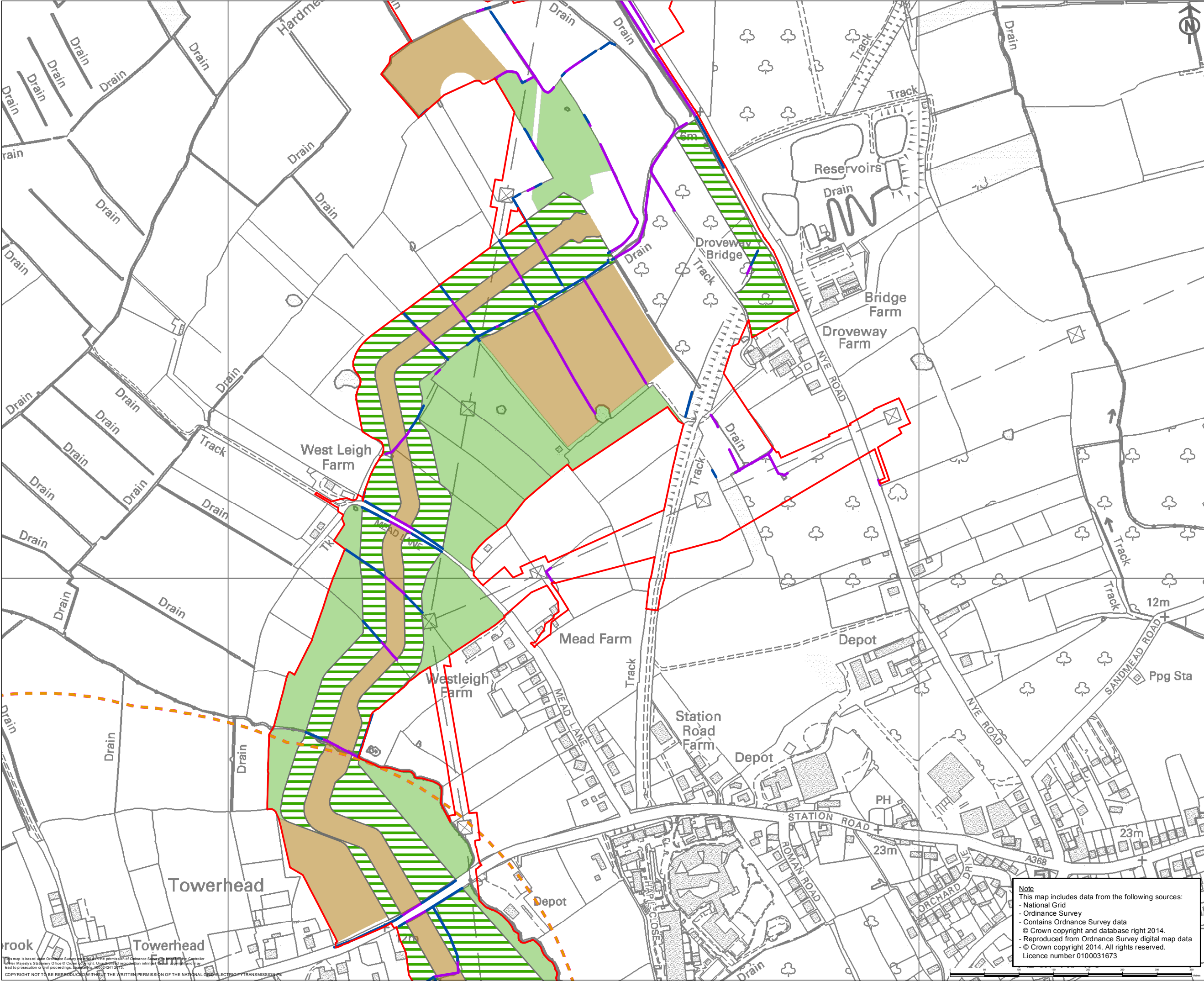
A	06/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title
NATIONAL GRID (HINKLEY POINT C
CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS - MITIGATION
INSET 4

nationalgrid		GIS	
National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA		A3	
NG INVESTMENT No.	APPLICATION No.	SCALE	ISSUE
20897	EN020001	1:5,000	A
FIGURE No.	DRAWING No.	SHEET 4 of 7	
8.42.4	G1979.2206.4.C		

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673



- Key**
- Order Limits
 - Habitat Proposals**
 - Hedgerow to be lost
 - Hedgerow to be retained
 - Buffers**
 - Lesser Horseshoe 500m Buffer
 - Lesser Horseshoe 5000m Buffer
 - Lesser Horseshoe 2750m Buffer
 - Greater Horseshoe 5750m Buffer
 - Greater Horseshoe 3400m Buffer
 - Greater Horseshoe 500m Buffer
 - Seeded Subsoil and Topsoil Stockpiles
 - Bat Foraging Areas
 - Cable Working Area
 - Existing Arable Land

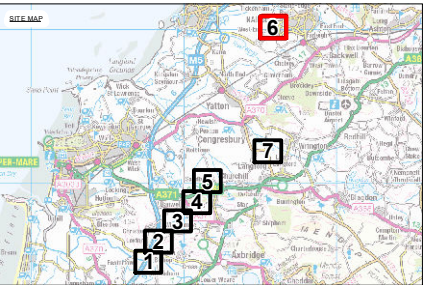
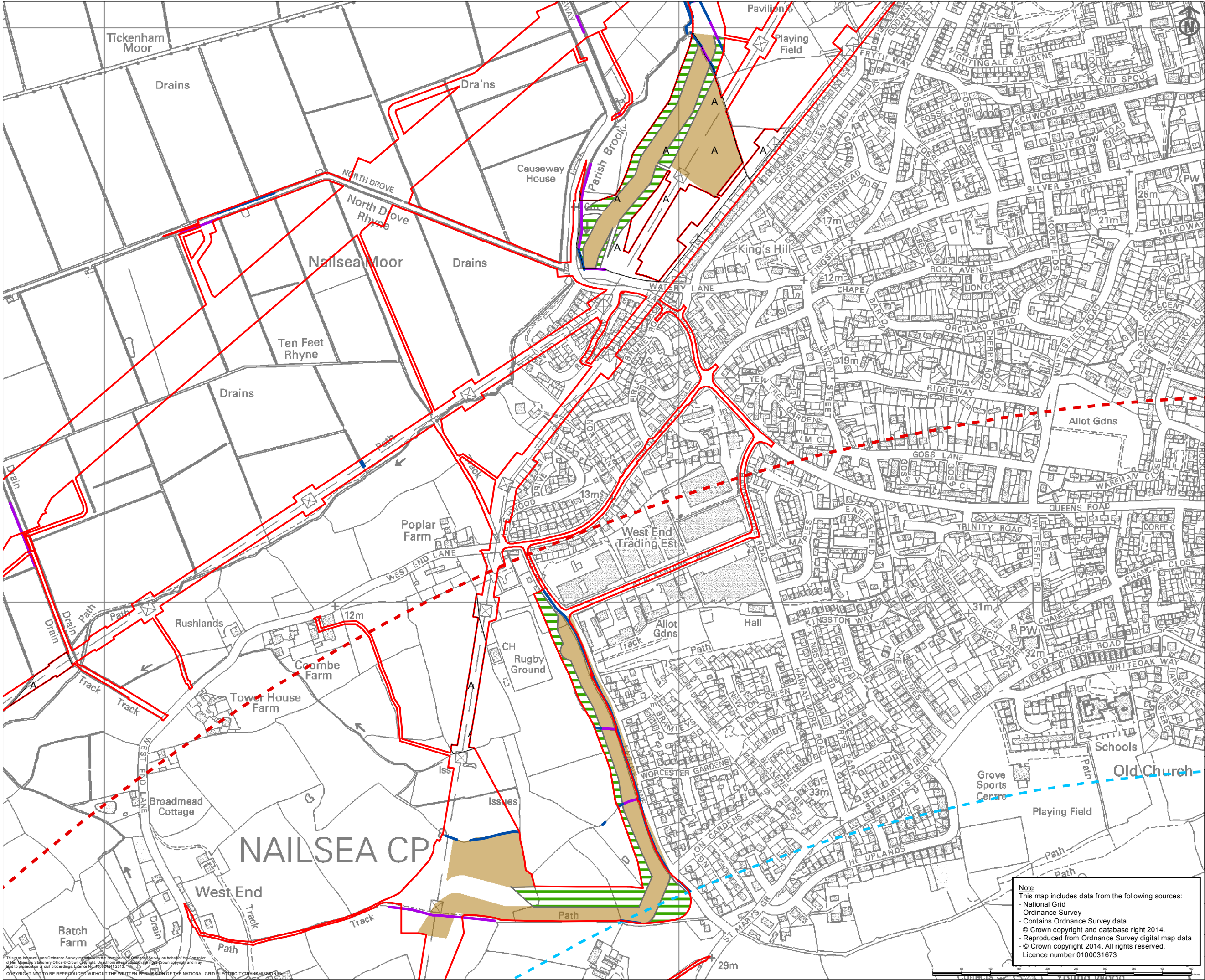
A	06/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title
NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS - MITIGATION
INSET 5

			
National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA			
ING INVESTMENT No.		APPLICATION No.	GIS A3
20897		EN020001	
FIGURE No.		DRAWING No.	SCALE
8.42.5		G1979.2206.5.C	1:5,000
SHEET 5 of 7			ISSUE A

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673



- Key**
- Order Limits
 - Habitat Proposals**
 - Hedgerow to be lost
 - Hedgerow to be retained
 - Lesser Horseshoe 5000m Buffer
 - Lesser Horseshoe 2750m Buffer
 - Greater Horseshoe 5750m Buffer
 - Greater Horseshoe 3400m Buffer
 - Seeded Subsoil and Topsoil Stockpiles
 - Cable Working Area
 - Existing Arable Land

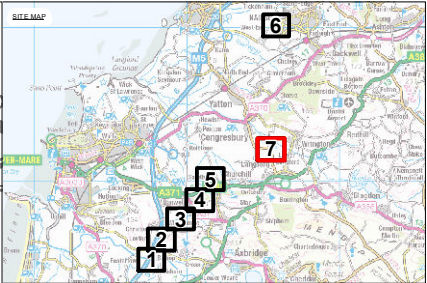
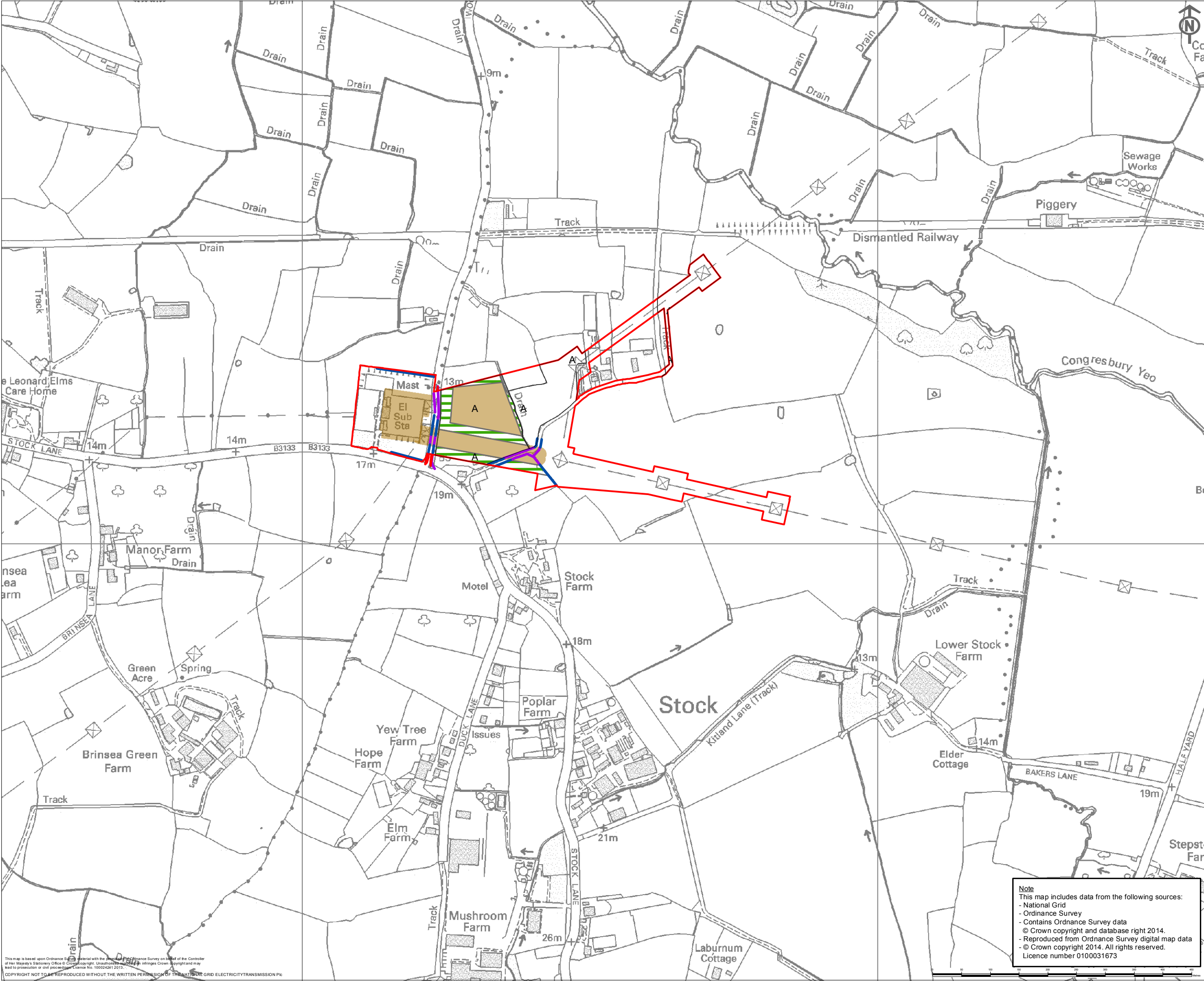
A	06/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title
NATIONAL GRID (HINKLEY POINT C
CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS - MITIGATION
INSET 6

			
National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA			
NG INVESTMENT No.	APPLICATION No.		GIS
20897	EN020001		A3
FIGURE No.	DRAWING No.	SCALE	
8.42.6	G1979.2206.6.C	1:5,000	
SHEET 6 of 7			ISSUE
			A

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673



- Key**
- Order Limits
 - Habitat Proposals
 - Hedgerow to be lost
 - Hedgerow to be retained
 - Lesser Horseshoe 5000m Buffer
 - Lesser Horseshoe 2750m Buffer
 - Greater Horseshoe 5750m Buffer
 - Greater Horseshoe 3400m Buffer
 - Seeded Subsoil and Topsoil Stockpiles
 - Cable Working Area
 - Existing Arable Land

A	06/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

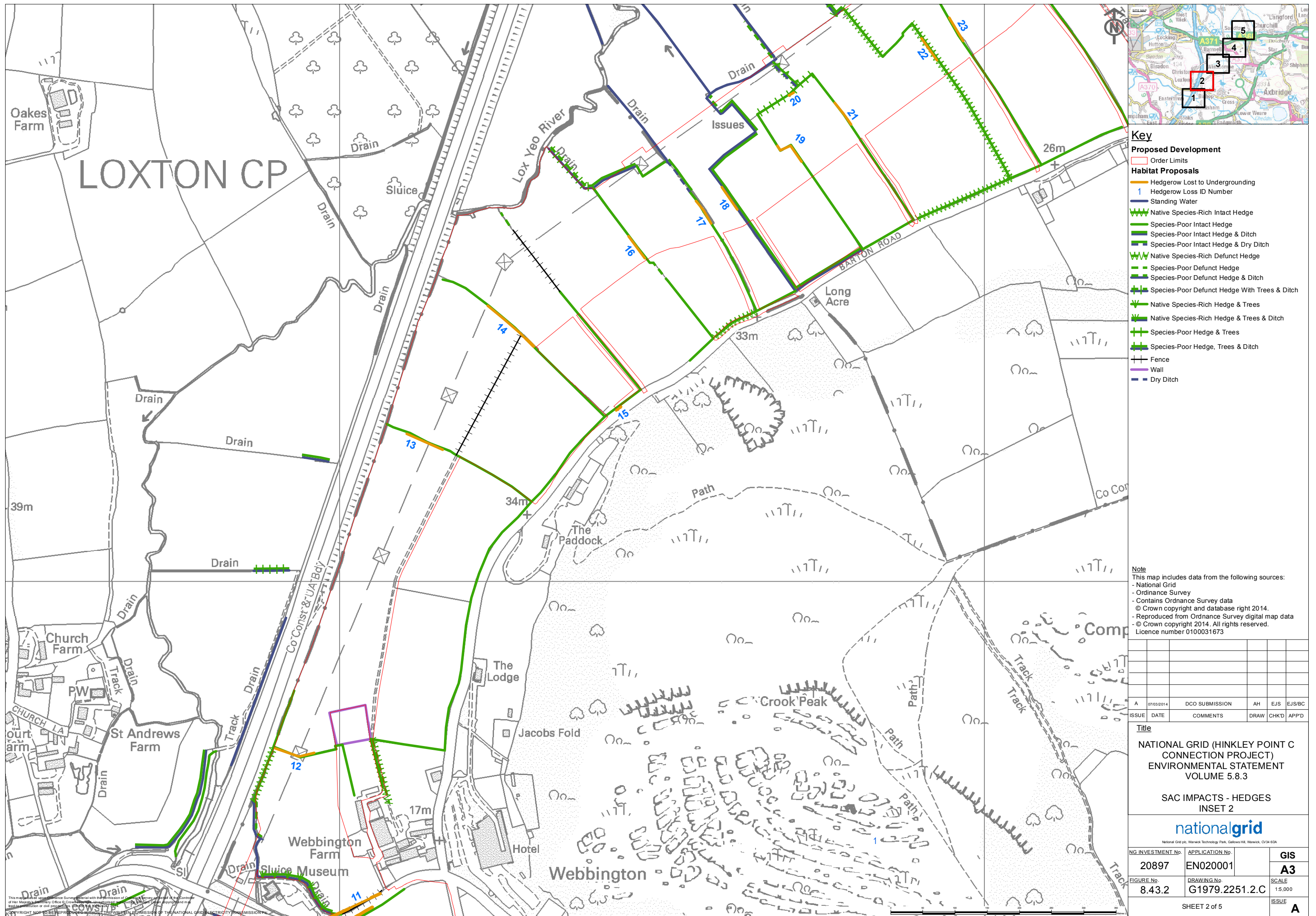
Title
NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

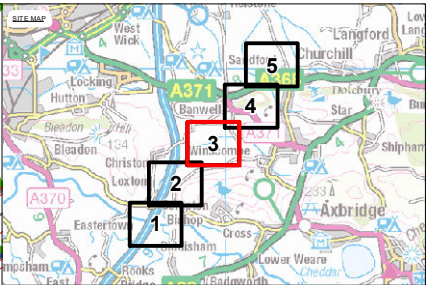
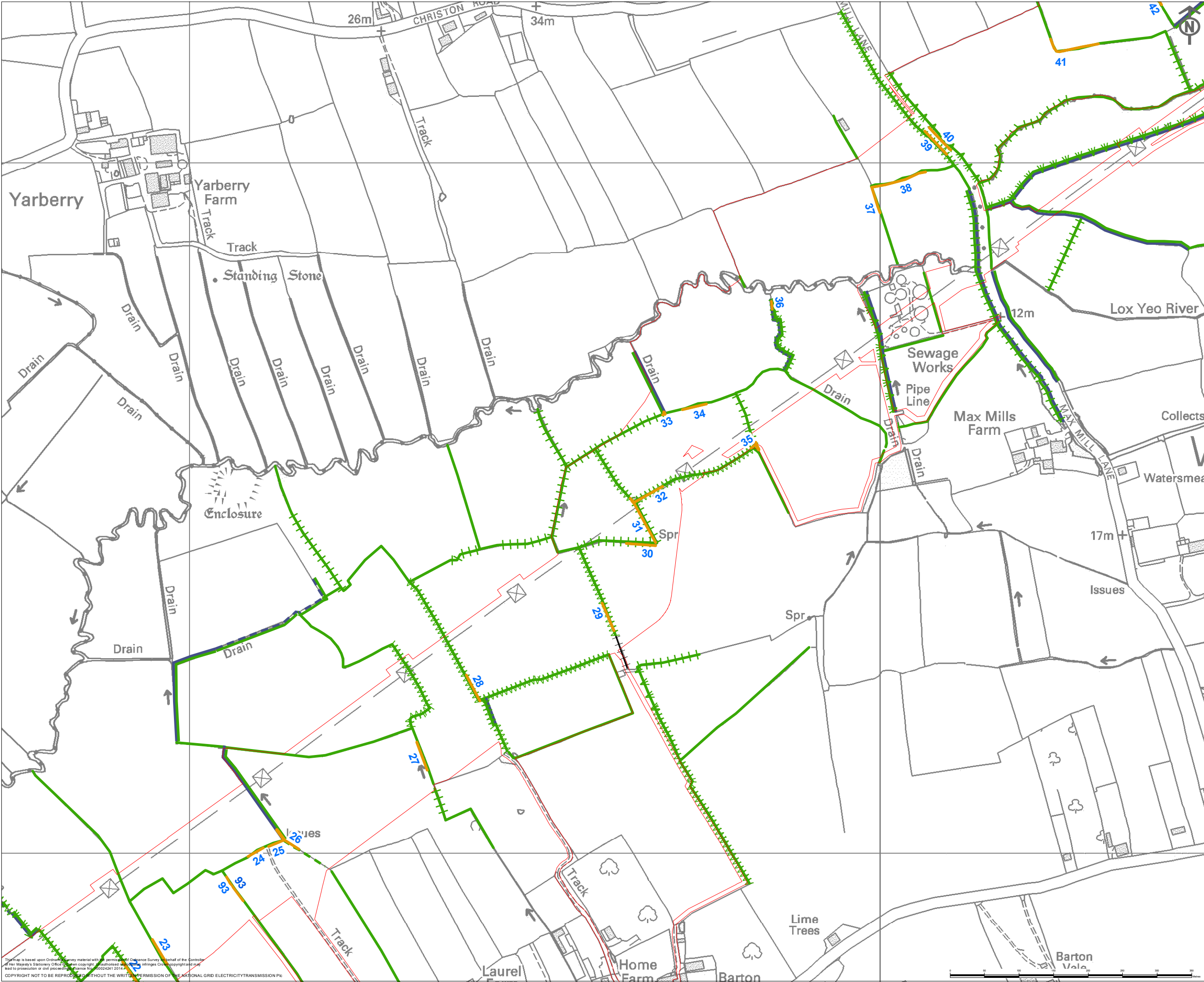
**SAC IMPACTS - MITIGATION
INSET 7**

			
National Grid plc, Warwick Technology Park, Galslow Hill, Warwick, CV34 6SD			
NG INVESTMENT No.		APPLICATION No.	GIS A3
20897		EN020001	
FIGURE No.		DRAWING No.	SCALE
8.42.7		G1979.2206.7.C	1:8,000
SHEET 7 of 7			ISSUE A

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673

Figure 8.43 – SAC Impacts – Mitigation Hedgerows





- Key**
- Proposed Development**
- Order Limits
- Habitat Proposals**
- Hedgerow Lost to Undergrounding
 - Hedgerow Loss ID Number
 - Native Species-Rich Intact Hedge
 - Native Species-Rich Intact Hedge & Ditch
 - Species-Poor Intact Hedge
 - Species-Poor Intact Hedge & Ditch
 - Species-Poor Intact Hedge & Dry Ditch
 - Native Species-Rich Defunct Hedge
 - Species-Poor Defunct Hedge
 - Native Species-Rich Hedge & Trees
 - Native Species-Rich Hedge & Trees & Ditch
 - Species-Poor Hedge & Trees
 - Species-Poor Hedge, Trees & Ditch
 - Fence
 - Dry Ditch

Note
This map includes data from the following sources:

- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
- © Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
- © Crown copyright 2014. All rights reserved.
- Licence number 0100031673

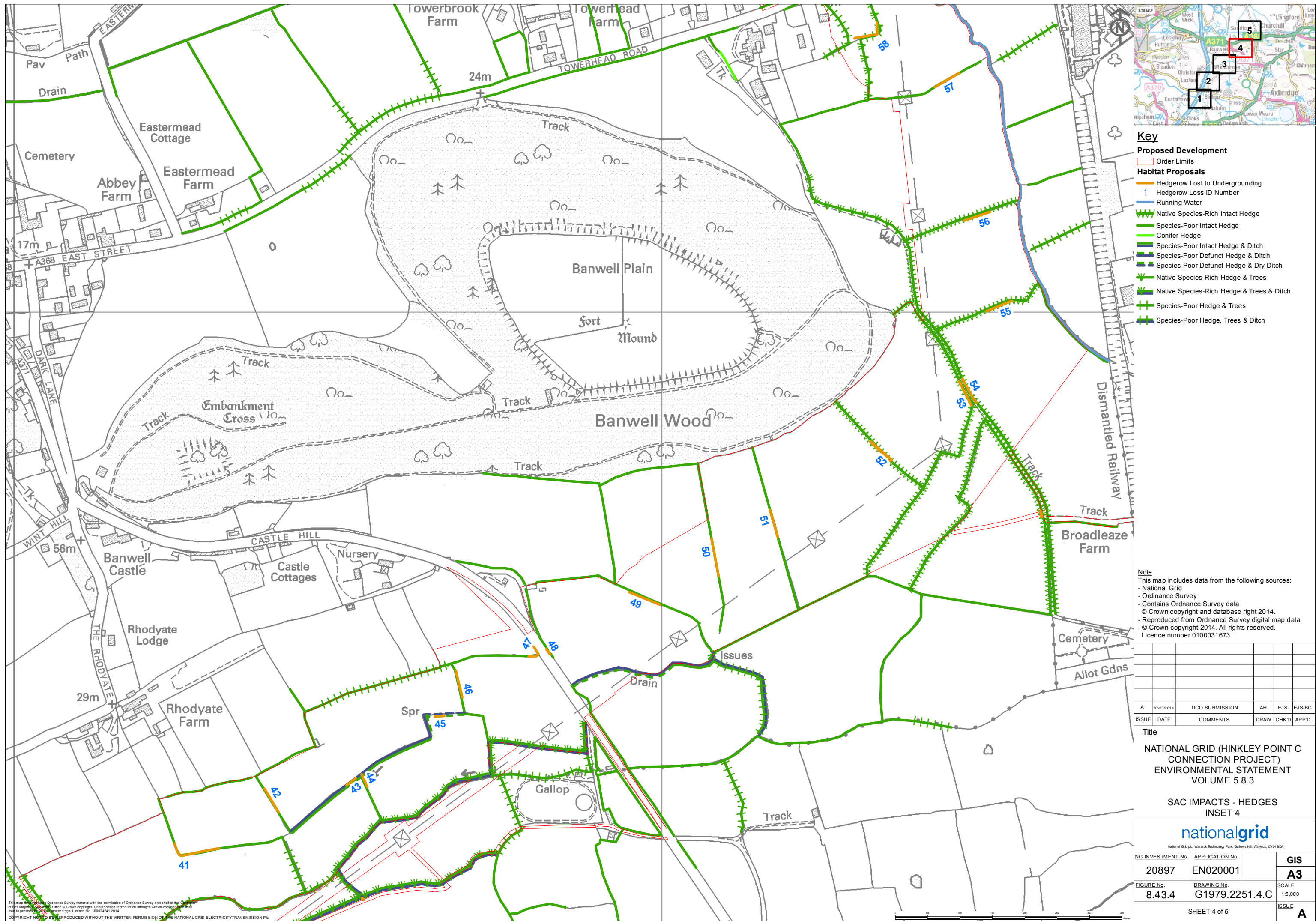
A	07/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title

NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS - HEDGES
INSET 3

nationalgrid		
National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA		
NG INVESTMENT No.	APPLICATION No.	GIS
20897	EN020001	A3
FIGURE No.	DRAWING No.	SCALE
8.43.3	G1979.2251.3.C	1:5,000
SHEET 3 of 5		ISSUE
		A



Key

Proposed Development

Order Limits

Habitat Proposals

— Hedgerow Lost to Undergrounding

1 Hedgerow Loss ID Number

Running Water

 Native Species-Rich Intact Hedge

Species-Poor Intact Hedge

Conifer Hedge

 Species-Poor Intact Hedge & Ditch

 Species-Poor Defunct Hedge & Ditch

 Species-Poor Defunct Hedge & Dry Ditch

 Native Species-Rich Hedge & Trees

Native Species-Rich Hedge & Trees & Ditch

- Native Species Rich Hedge & Tree

Species-Poor Hedge & Trees

 Species-Poor Hedge, Trees & Ditch

Note

This map includes data from the following sources:

- National Grid

- Ordinance Survey
- Contains Ordnance Survey

© Crown copyright and database right

- Reproduced from Ordnance Survey digital map

- © Crown copyright 2014. All rights reserved.

Licence number 0100031673

A	07/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APP'D

<u>Title</u>	<u>Author</u>	<u>Year</u>	<u>Journal</u>	<u>Volume</u>	<u>Page</u>
1. The Effect of Temperature on the Rate of Reaction	John Doe	2018	Journal of Chemical Kinetics	45	123-135
2. Kinetic Study of the Decomposition of Hydrogen Peroxide	Jane Smith	2019	International Journal of Chemical Kinetics	52	201-215
3. The Influence of Catalyst Concentration on Reaction Rate	Michael Chen	2020	Journal of Physical Chemistry	124	567-580
4. Kinetic Analysis of the Reaction Between Nitrogen Dioxide and Carbon Monoxide	Sarah Johnson	2021	Journal of Environmental Chemistry	38	901-915
5. The Role of Solvent Polarity in the Rate of Nucleophilic Substitution	David Lee	2022	Journal of Organic Chemistry	87	345-360

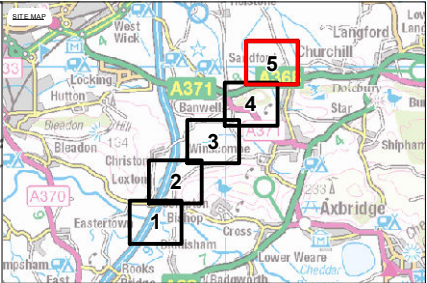
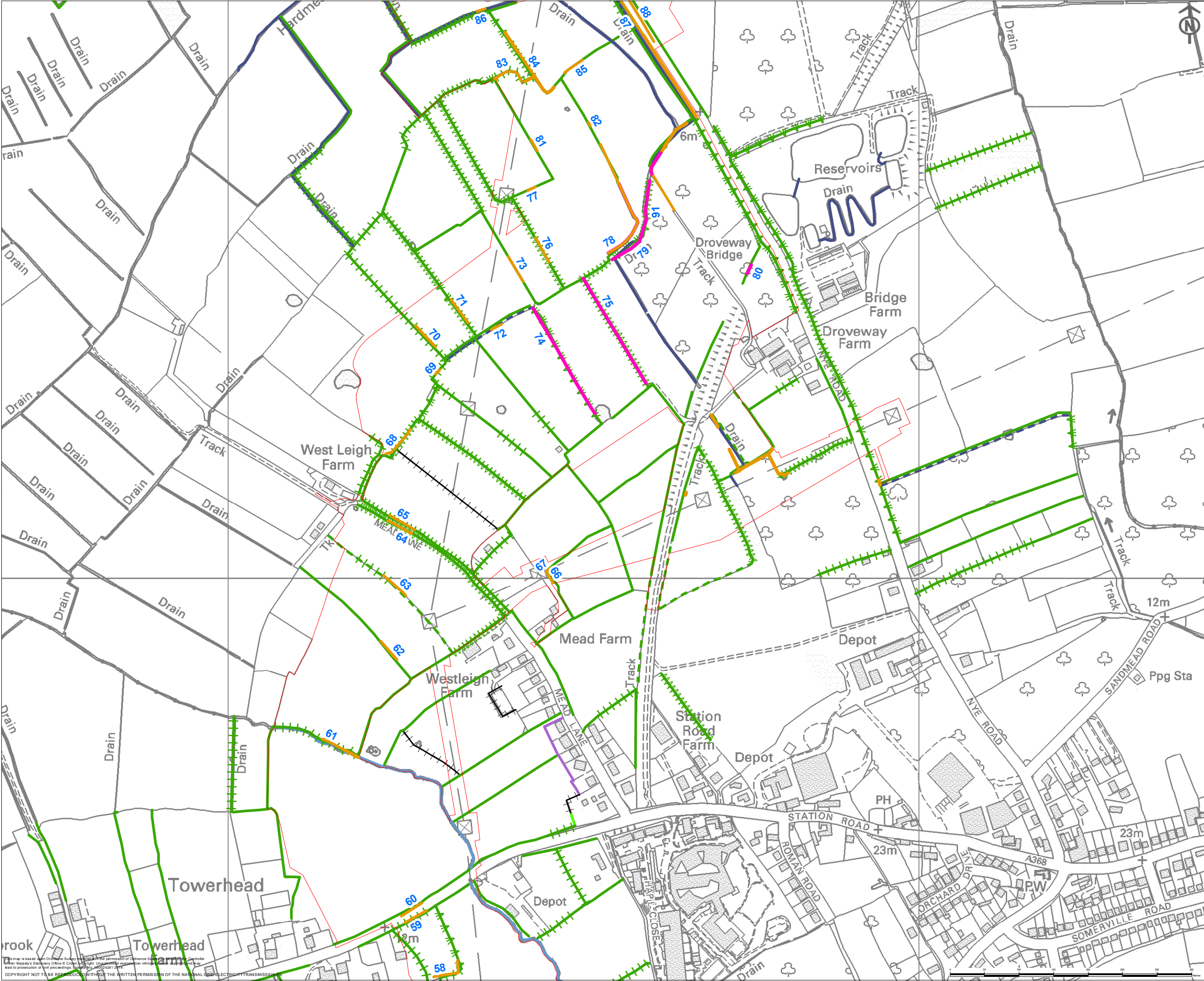
NATIONAL GRID (HINKLEY POINT C
CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS - HEDGES
INSET 4

nationalgrid

National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.		GIS
20897	EN020001		A3
FIGURE No.	DRAWING No.	SCALE	
8.43.4	G1979.2251.4.C	1:5,000	
SHEET 4 of 5			



- Key**
- Proposed Development**
- Order Limits
- Habitat Proposals**
- Hedgerow Lost to Undergrounding
 - Hedgerow Lost to Compounds and Sandford Substation
 - Hedgerow Loss ID Number
 - Standing Water
 - Running Water
 - Native Species-Rich Intact Hedge
 - Native Species-Rich Intact Hedge & Ditch
 - Species-Poor Intact Hedge
 - Conifer Hedge
 - Species-Poor Intact Hedge & Ditch
 - Species-Poor Intact Hedge & Dry Ditch
 - Species-Poor Defunct Hedge
 - Species-Poor Defunct Hedge & Ditch
 - Species-Poor Defunct Hedge With Trees
 - Native Species-Rich Hedge & Trees
 - Species-Poor Hedge & Trees
 - Species-Poor Hedge, Trees & Ditch
 - Fence
 - Wall

Note
This map includes data from the following sources:

- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
- © Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
- © Crown copyright 2014. All rights reserved.
- Licence number 0100031673

A	07/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title

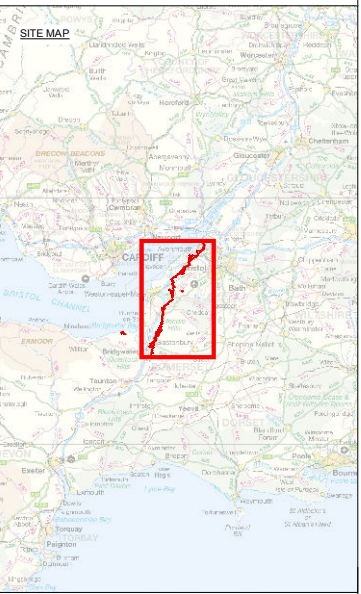
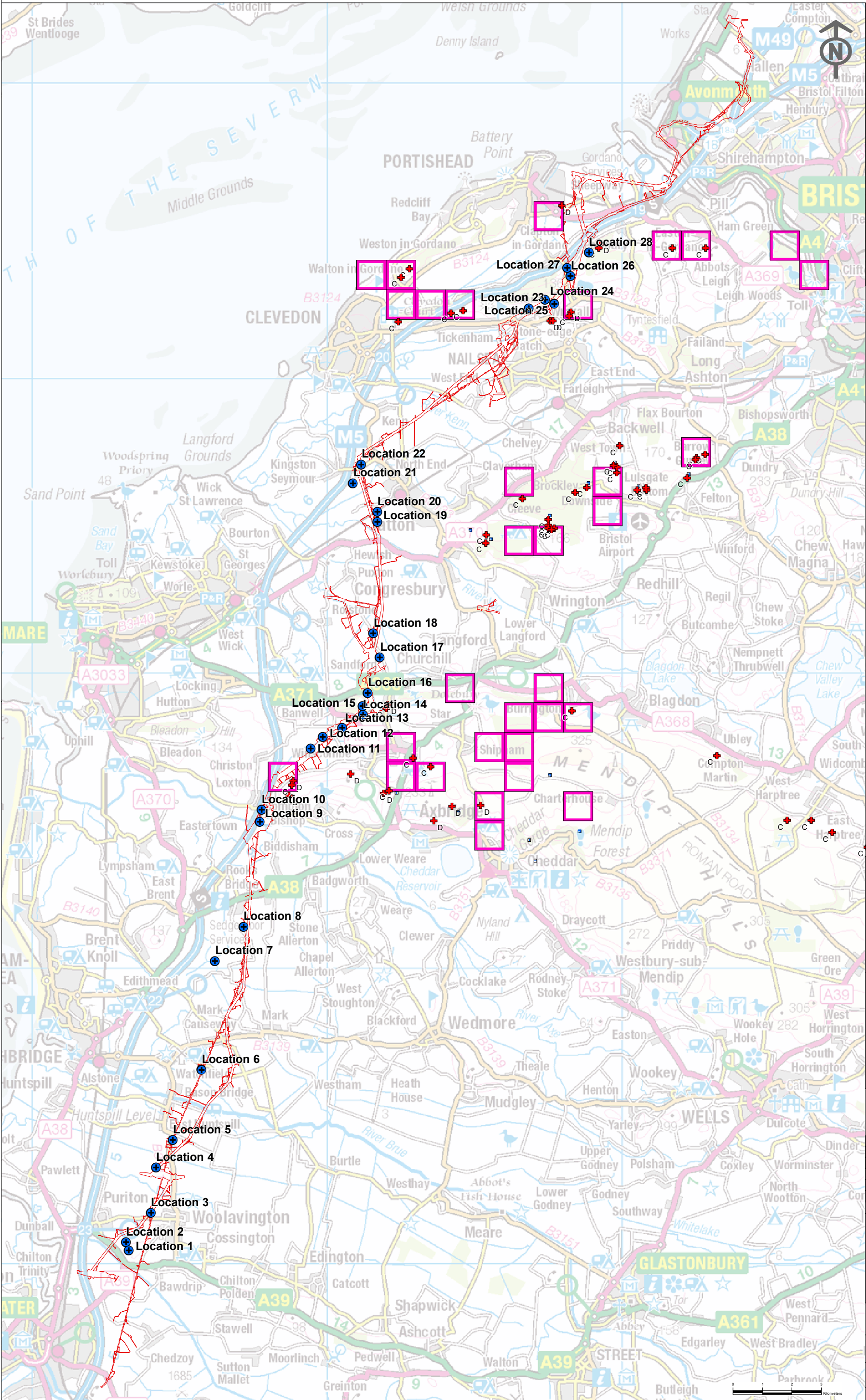
NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

SAC IMPACTS - HEDGES
INSET 5

nationalgrid		
National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA		
NG INVESTMENT No.	APPLICATION No.	GIS
20897	EN020001	A3
FIGURE No.	DRAWING No.	SCALE
8.43.5	G1979.2251.5.C	1:5,000
SHEET 5 of 5		ISSUE
		A

Figure 8.44 – Dormouse Desk Study Data & Survey Locations

DORMOUSE DESK STUDY
AND SURVEY LOCATIONS
OVERVIEW



Key

Dormouse Desktop and Survey Locations

- Dormouse Record Accurate to 100m
- Dormouse Record Accurate to 1km
- Dormice - North Somerset Council
- Dormouse Desktop and Survey Locations
- Dormouse Record
- Dormouse Survey Location (central grid reference)

Note
This map includes data from the following sources:
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
© Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
© Crown copyright 2014. All rights reserved.
Licence number 0100031673

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence No. 100024241 2013.

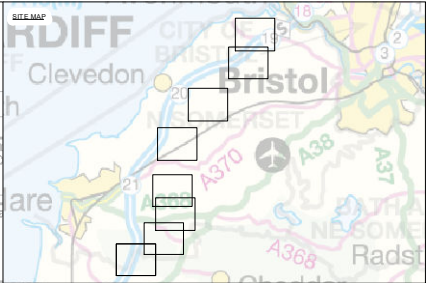
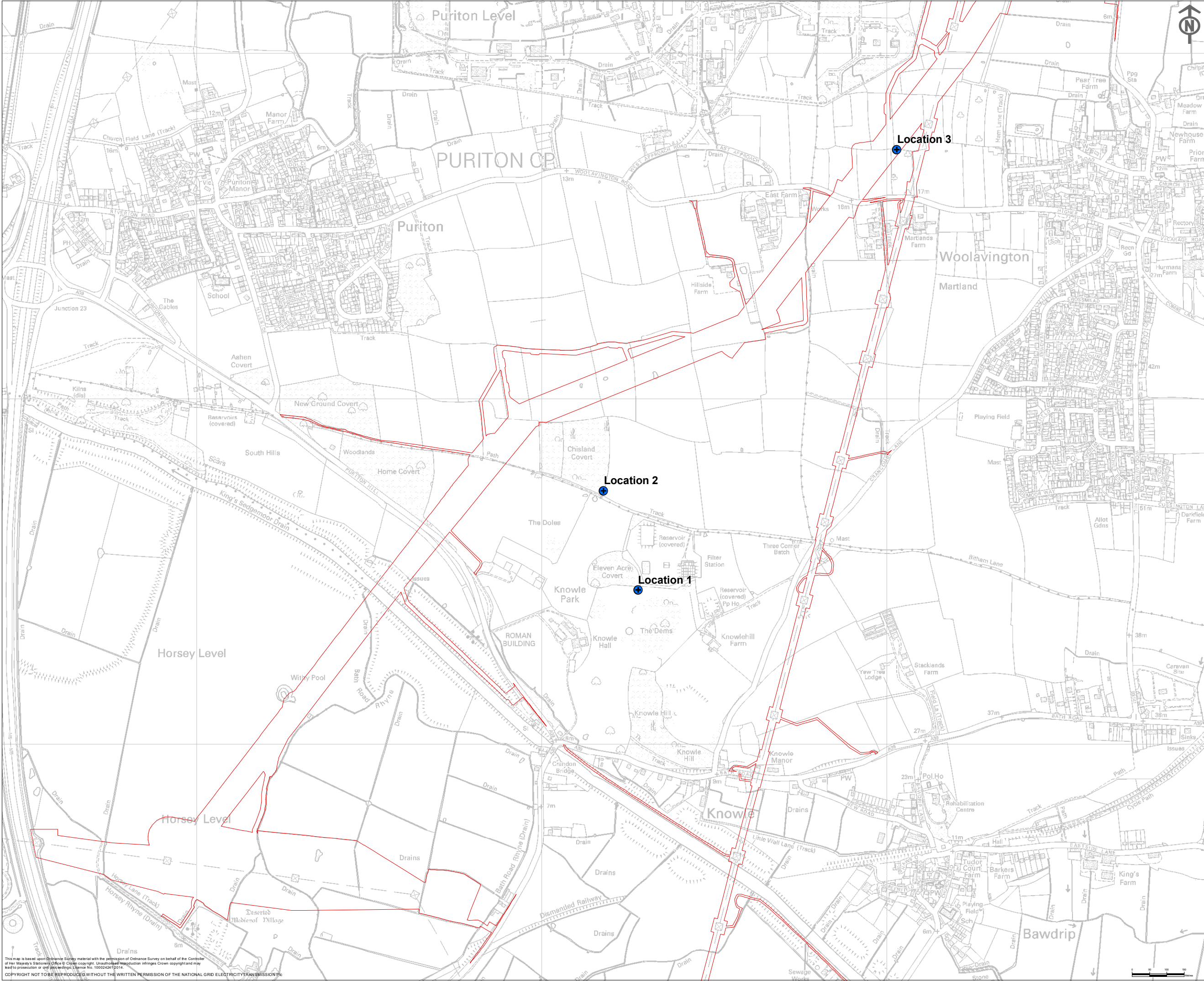
A	07/03/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APP'D

Title
NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

**DORMOUSE DESK STUDY
AND SURVEY LOCATIONS
OVERVIEW**

nationalgrid
National Grid plc, Warwick Technology Park, Solihull CV35 9DA

NG INVESTMENT No.	APPLICATION No.	GIS
20897	EN020001	
FIGURE No.	DRAWING No.	SCALE
8.44.1	G1979.2200.C	1:123,560
SHEET 1 OF 13		ISSUE
		A



- Key**
- Proposed Infrastructure Order Limits
 - Dormouse Desktop and Survey Locations
 - Dormouse Survey Location (central grid reference)

Note
Where records have an accuracy of less than 10m they are shown central within a 100m or 1km square.

This map includes data from the following sources:

- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
- © Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
- © Crown copyright 2014. All rights reserved.
- Licence number 0100031673
- Bristol Regional Environmental Records Centre (2013)
- Somerset Environmental Records Centre (2013)
- NBN Gateway
- North Somerset Council

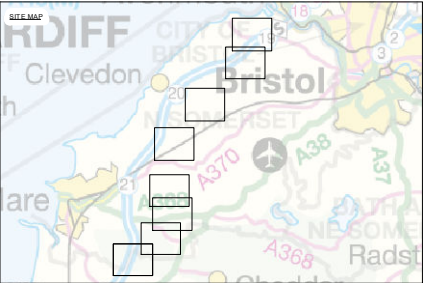
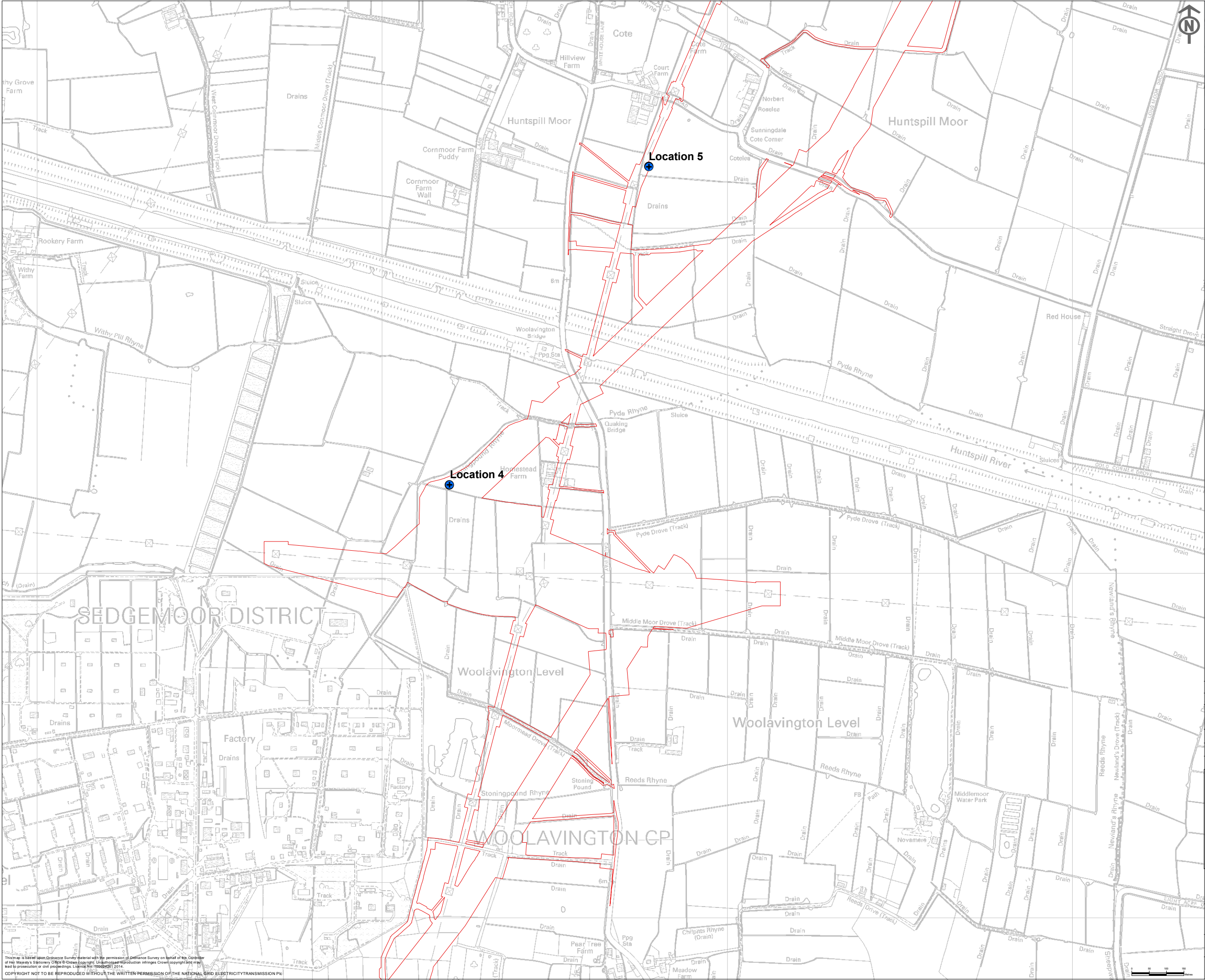
A	04/04/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title
NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

**DORMOUSE DESK STUDY
AND SURVEY LOCATIONS
INSET 2**

nationalgrid National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA		GIS A3
NG INVESTMENT No. 20897	APPLICATION No. EN020001	
FIGURE No. 8.44.2	DRAWING No. G1979.1844.C	SCALE 1:10,000
SHEET 2 of 13		ISSUE A

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or other proceedings. Licence No. 10002426/2014.
COPYRIGHT NOT TO BE REPRODUCED WITHOUT THE WRITTEN PERMISSION OF THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC



Key

Proposed Infrastructure

Order Limits

Dormouse Desktop and Survey Locations

Dormouse Survey Location (central grid reference)

Note

Where records have an accuracy of less than 10m they are shown central within a 100m or 1km square.

This map includes data from the following sources:

- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
- © Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
- © Crown copyright 2014. All rights reserved.
- Licence number 0100031673
- Bristol Regional Environmental Records Centre (2013)
- Somerset Environmental Records Centre (2013)
- NBN Gateway
- North Somerset Council

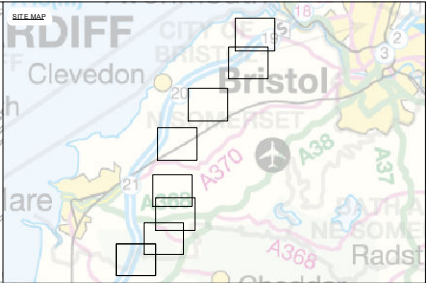
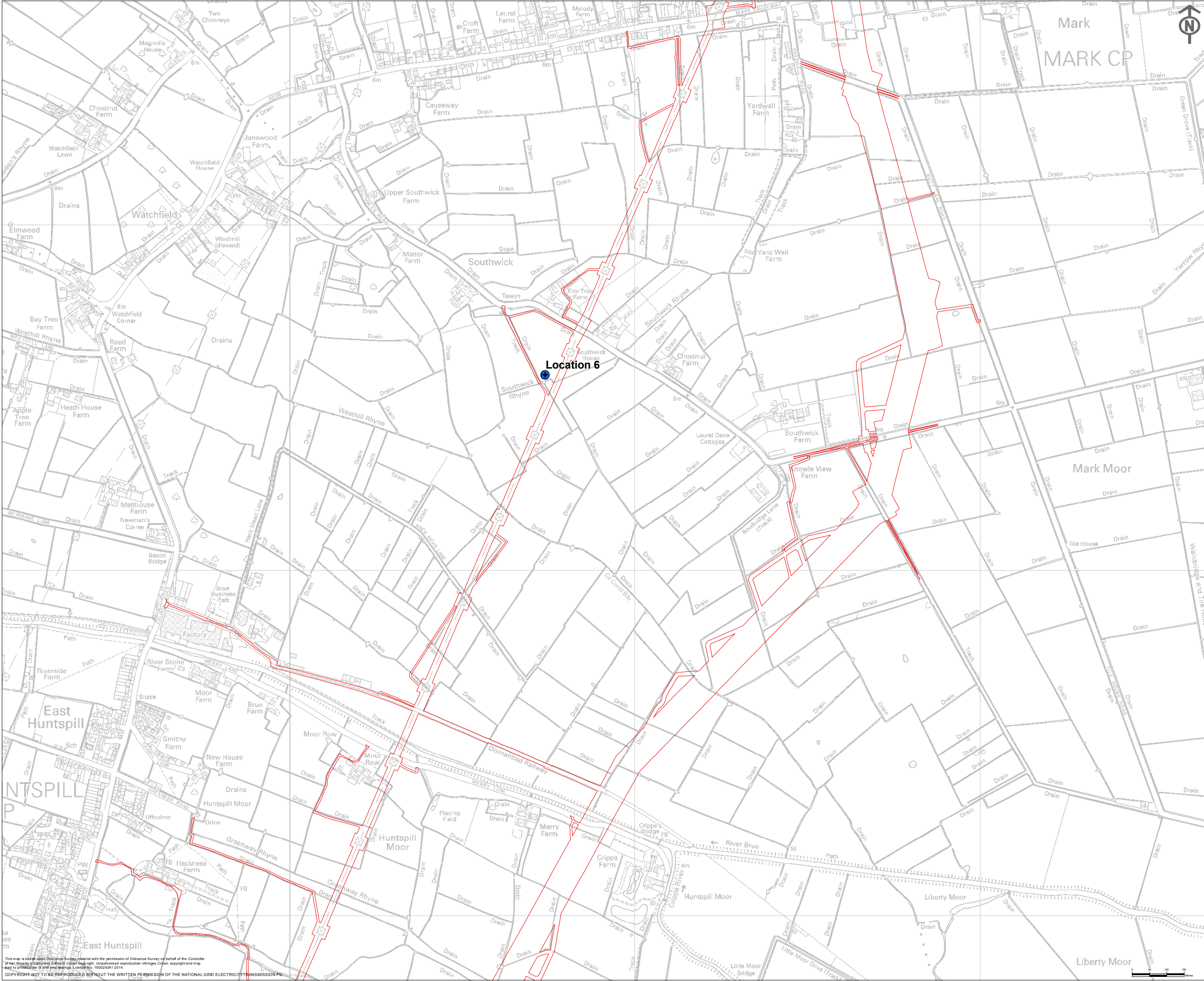
A	04/04/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title

NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

DORMOUSE DESK STUDY
AND SURVEY LOCATIONS
INSET 3

nationalgrid		National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA	
NG INVESTMENT No.	APPLICATION No.	GIS	
20897	EN020001	A3	
FIGURE No.	DRAWING No.	SCALE	
8.44.3	G1979.1844.C	1:10,000	
SHEET 3 of 13		ISSUE	
		A	



Key

Proposed Infrastructure

Order Limits

Dormouse Desktop and Survey Locations

● Dormouse Survey Location (central grid reference)

Note

Where records have an accuracy of less than 10m they are shown central within a 100m or 1km square.

This map includes data from the following sources:

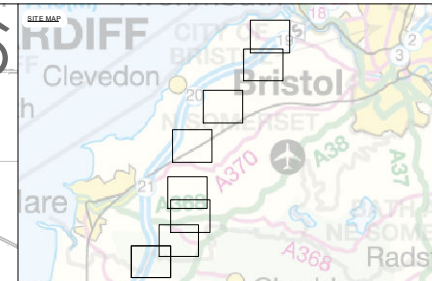
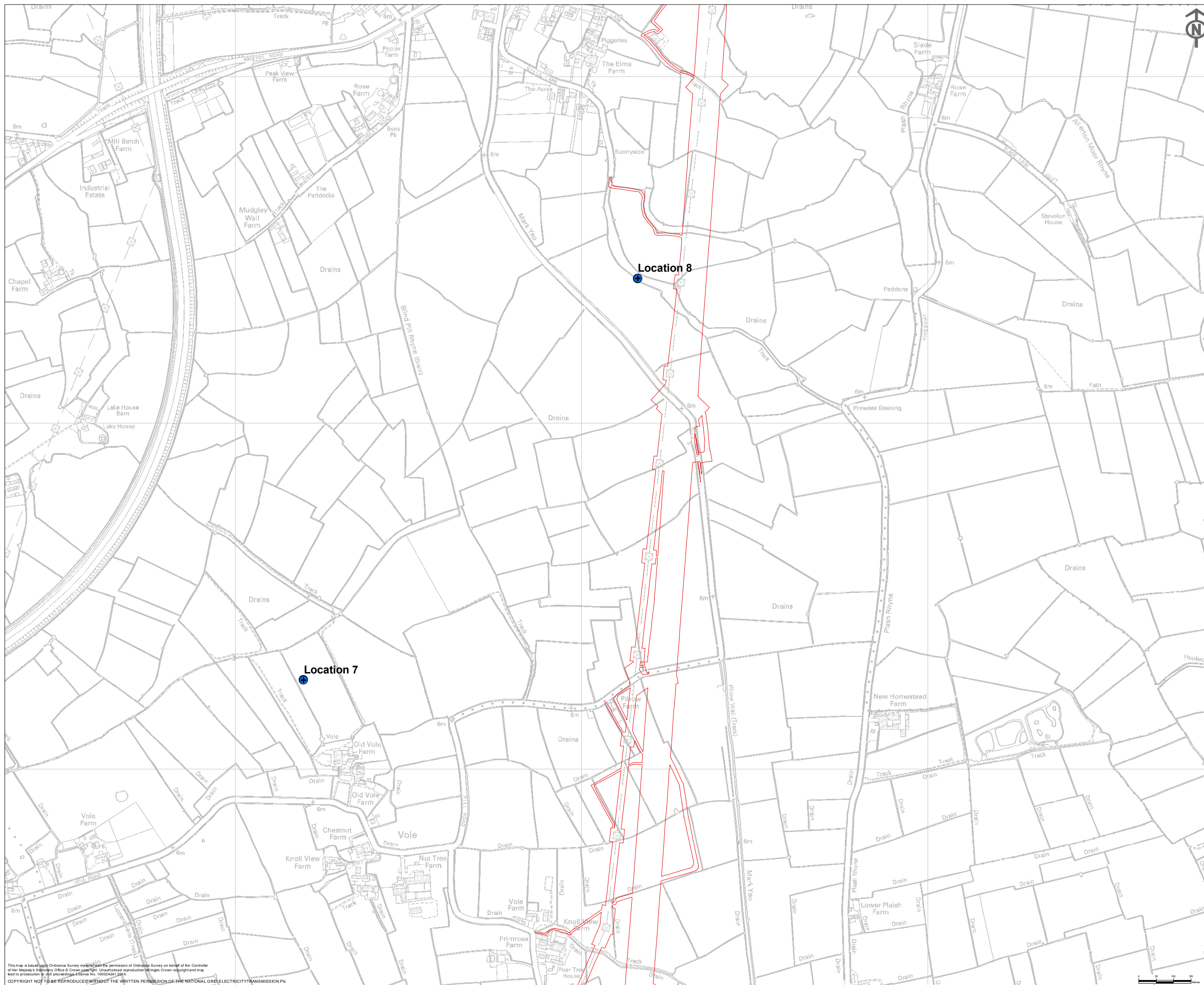
- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
- © Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
- © Crown copyright 2014. All rights reserved.
- Licence number 0100031673
- Bristol Regional Environmental Records Centre (2013)
- Somerset Environmental Records Centre (2013)
- NBN Gateway
- North Somerset Council

A	04/04/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT) ENVIRONMENTAL STATEMENT VOLUME 5.8.3

DORMOUSE DESK STUDY AND SURVEY LOCATIONS INSET 4

nationalgrid		National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA	
NG INVESTMENT No.	APPLICATION No.	GIS	
20897	EN020001	A3	
FIGURE No.	DRAWING No.	SCALE	
8.44.4	G1979.1844.C	1:10,000	
SHEET 4 of 13		ISSUE	
		A	



Key

Proposed Infrastructure

☐ Order Limits

Dormouse Desktop and Survey Locations

⊕ Dormouse Survey Location (central grid reference)

Note

Note
Where records have an accuracy of less than 10m they are shown central within a 100m or 1km square.

This map includes data from the following sources:

- National Grid

- Ordinance Survey

- Contains Ordnance Survey data
© Crown copyright and database right 2014

- Reproduced from Ordnance Survey digital map

- © Crown copyright 2014. All rights reserved.

Licence number 0100031673
Bristol Regional Environmental Records Centre (2013)

- Somerset Environmental Records Centre (2013)

- NBN Gateway

A	04/04/2014	DCO SUBMISSION	AH	EJS	EJS/BO
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

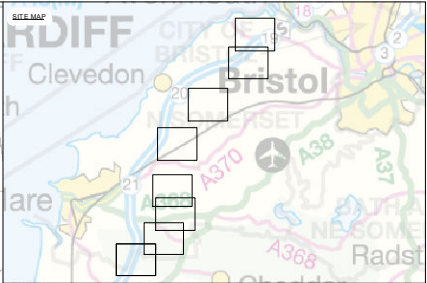
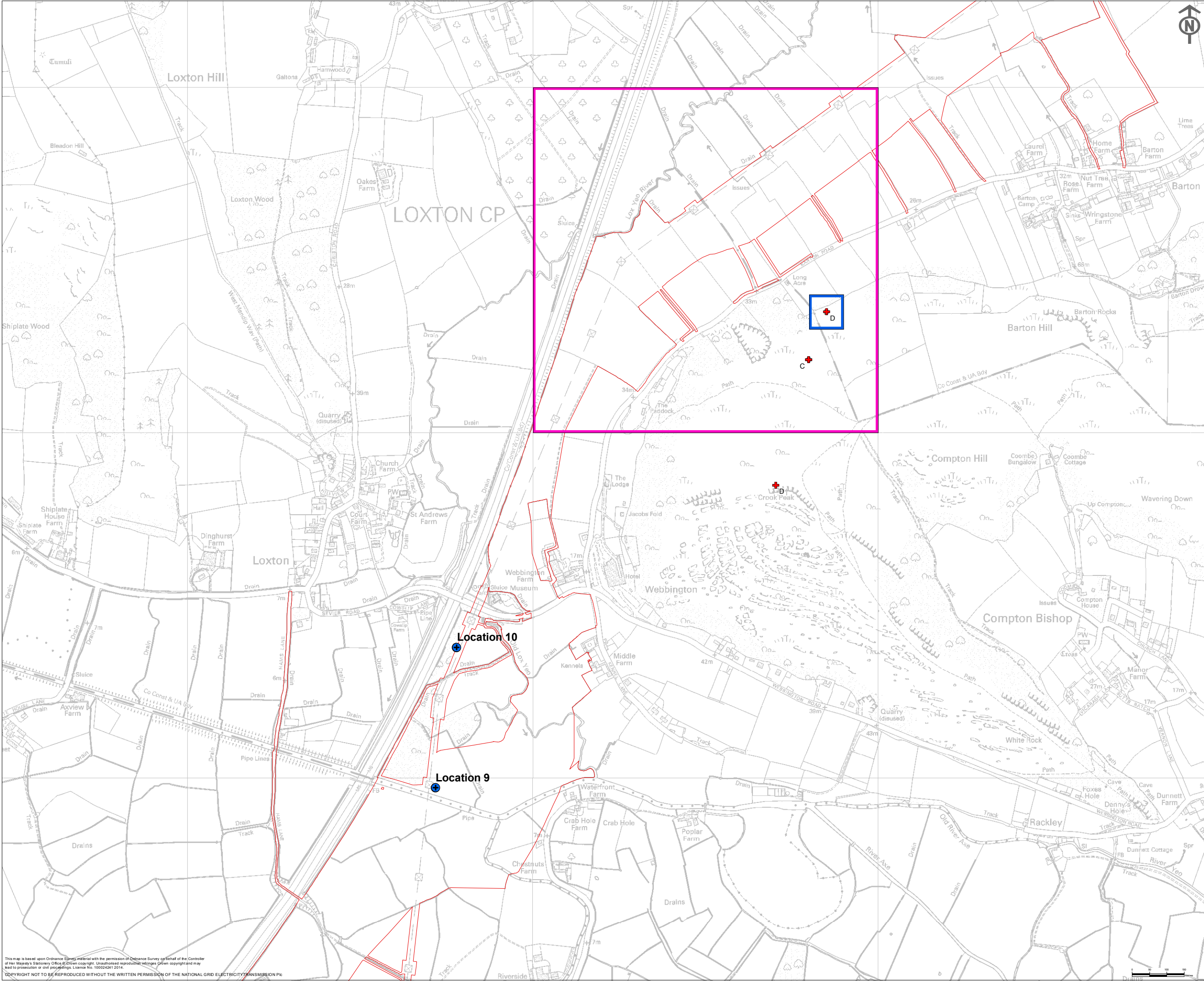
Title NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

DORMOUSE DESK STUDY
AND SURVEY LOCATIONS
INSET 5



National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6D

<u>FIGURE No.</u> 8.44.5	<u>APPLICATION No.</u> EN020001	<u>SCALE</u> 1:10,000
<u>SHEET 5 of 13</u>		<u>ISSUE</u> A



Key

Proposed Infrastructure

Order Limits

Dormouse Desktop and Survey Locations

Dormouse Record Accurate to 1km

C Dormouse Record From North Somerset Council

D Dormouse Desktop Record

+ Dormouse Record

• Dormouse Survey Location (central grid reference)

Note

Where records have an accuracy of less than 10m they are shown central within a 100m or 1km square.

This map includes data from the following sources:

- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
- © Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
- © Crown copyright 2014. All rights reserved.
- Licence number 0100031673
- Bristol Regional Environmental Records Centre (2013)
- Somerset Environmental Records Centre (2013)
- NBN Gateway
- North Somerset Council

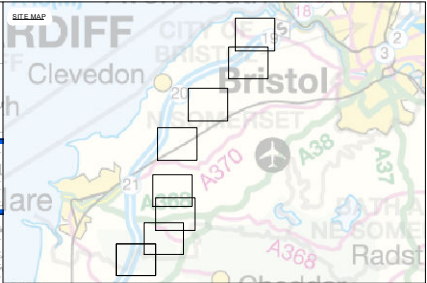
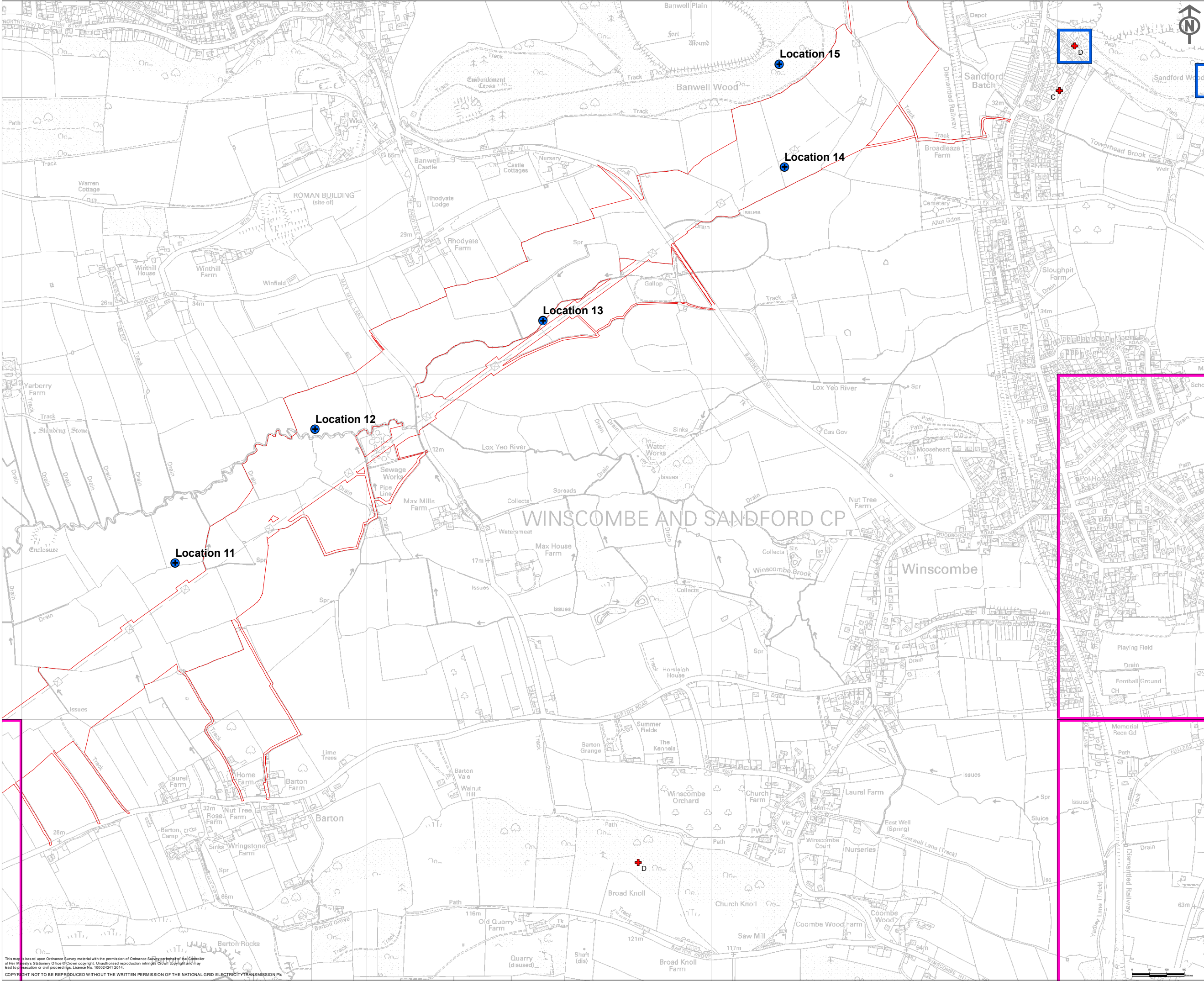
A	04/04/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title

NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT) ENVIRONMENTAL STATEMENT VOLUME 5.8.3

DORMOUSE DESK STUDY AND SURVEY LOCATIONS INSET 6

nationalgrid		
National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA		
NG INVESTMENT No.	APPLICATION No.	GIS
20897	EN020001	A3
FIGURE No.	DRAWING No.	SCALE
8.44.6	G1979.1844.C	1:10,000
SHEET 6 of 13		ISSUE
		A



- Key**
- Proposed Infrastructure**
- Order Limits
- Dormouse Desktop and Survey Locations**
- Dormouse Record Accurate to 100m
 - Dormouse Record Accurate to 1km
 - C Dormouse Record From North Somerset Council
 - D Dormouse Desktop Record
 - Dormouse Record
 - Dormouse Survey Location (central grid reference)

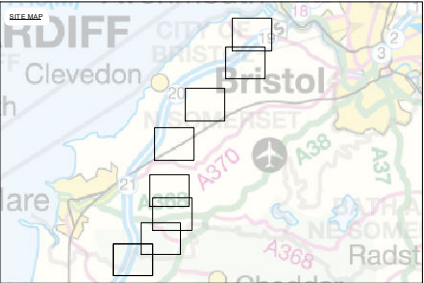
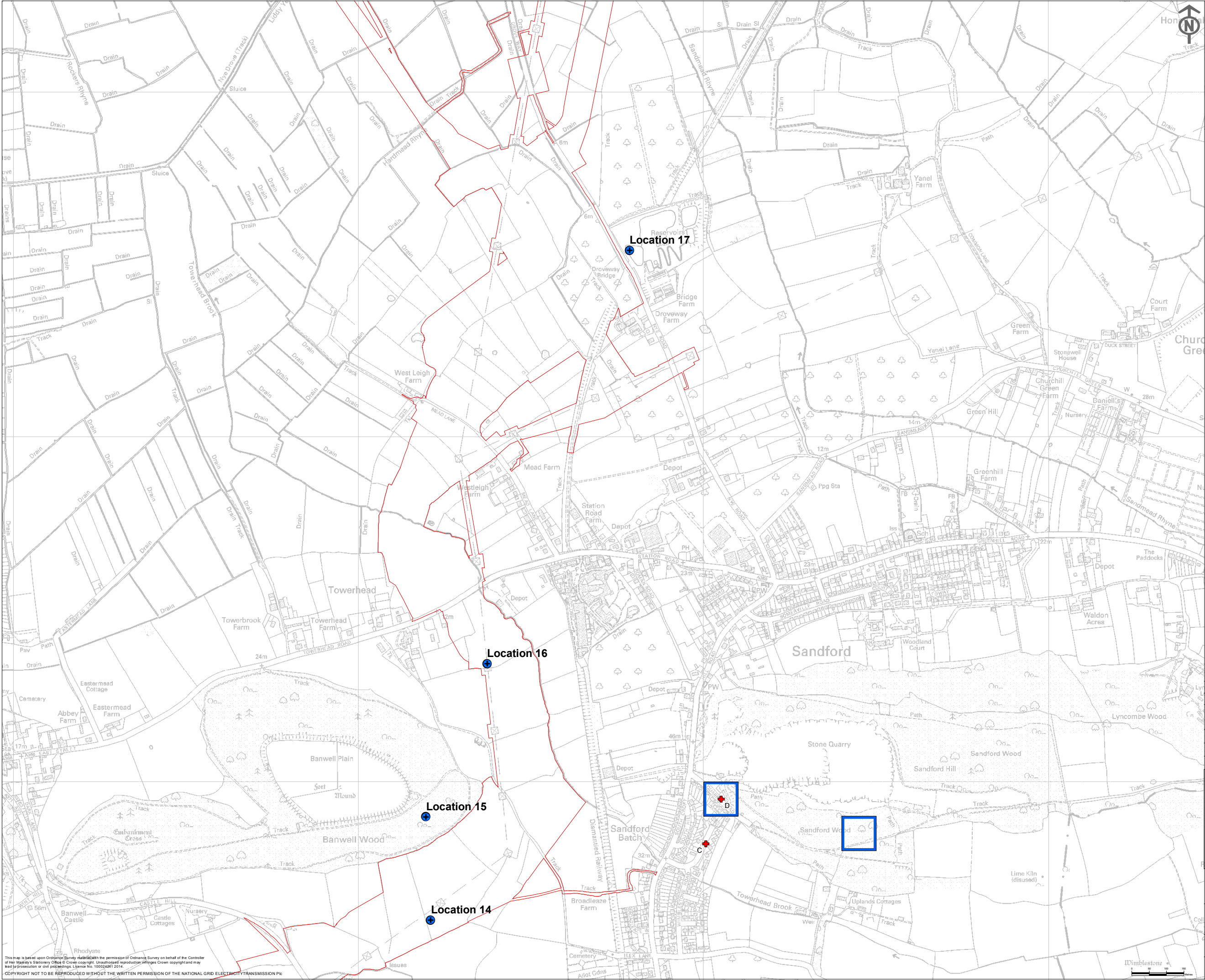
Note

Where records have an accuracy of less than 10m they are shown central within a 100m or 1km square.

This map includes data from the following sources:

- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
- © Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
- © Crown copyright 2014. All rights reserved.
- Licence number 0100031673
- Bristol Regional Environmental Records Centre (2013)
- Somerset Environmental Records Centre (2013)
- NBN Gateway
- North Somerset Council

A	04/04/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD
Title NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT) ENVIRONMENTAL STATEMENT VOLUME 5.8.3					
DORMOUSE DESK STUDY AND SURVEY LOCATIONS INSET 7					
nationalgrid					
National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA					
NG INVESTMENT No.	20897	APPLICATION No.	EN020001	GIS A3	
FIGURE No.	8.44.7	DRAWING No.	G1979.1844.C	SCALE 1:10,000	
SHEET 7 of 13				ISSUE A	



- Key**
- Proposed Infrastructure**
- Order Limits
- Dormouse Desktop and Survey Locations**
- Dormouse Record Accurate to 100m
 - Dormouse Record From North Somerset Council
 - Dormouse Desktop Record
 - Dormouse Record
 - Dormouse Survey Location (central grid reference)

Note

Where records have an accuracy of less than 10m they are shown central within a 100m or 1km square.

This map includes data from the following sources:

- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
- © Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
- © Crown copyright 2014. All rights reserved.
- Licence number 0100031673
- Bristol Regional Environmental Records Centre (2013)
- Somerset Environmental Records Centre (2013)
- NBN Gateway
- North Somerset Council

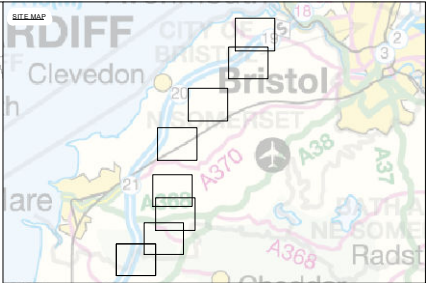
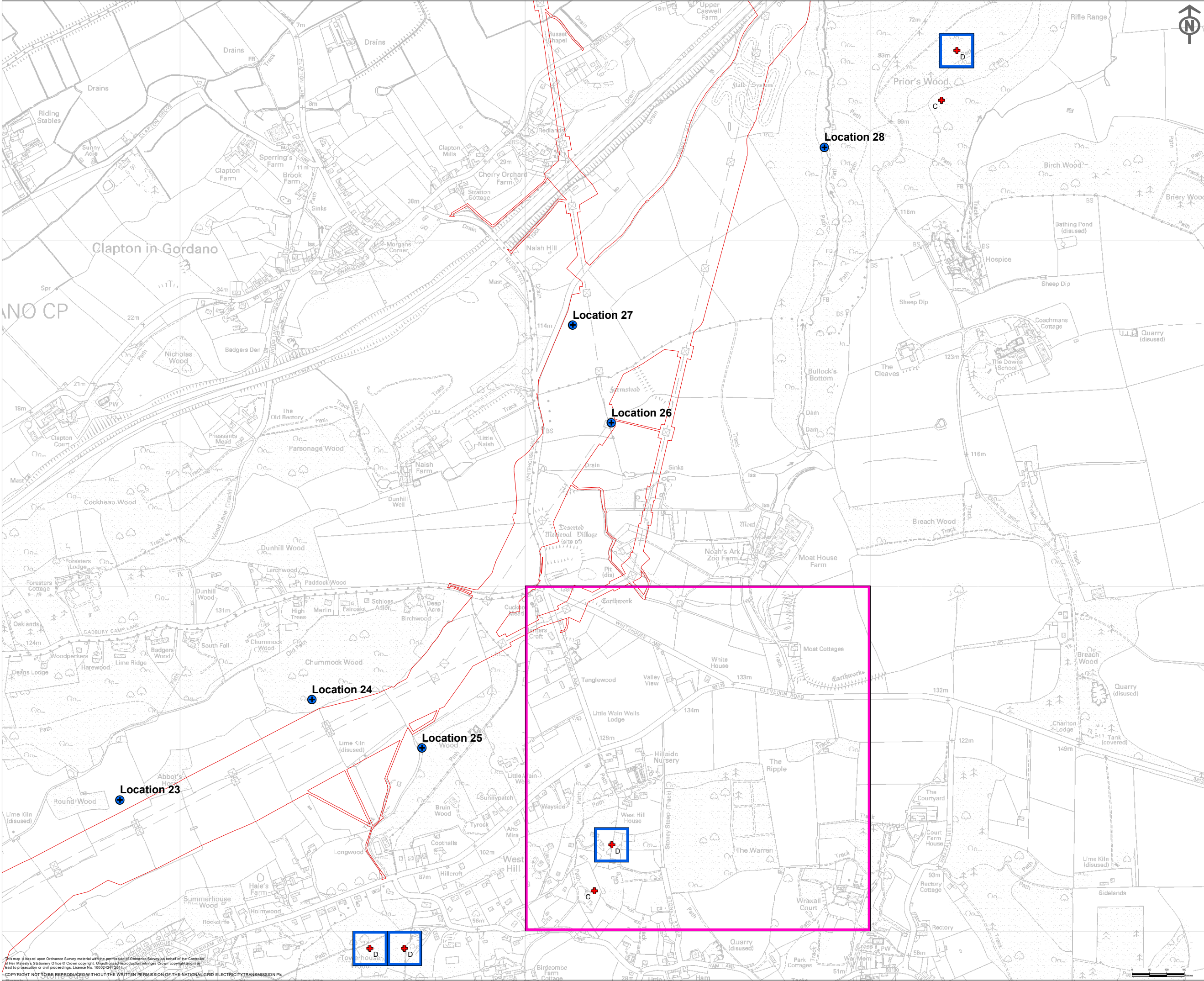
A	04/04/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title

NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

DORMOUSE DESK STUDY
AND SURVEY LOCATIONS
INSET 8

nationalgrid		
National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA		
NG INVESTMENT No.	APPLICATION No.	GIS
20897	EN020001	A3
FIGURE No.	DRAWING No.	SCALE
8.44.8	G1979.1844.C	1:10,000
SHEET 8 of 13		ISSUE
		A



- Key**
- Proposed Infrastructure**
- Order Limits
- Dormouse Desktop and Survey Locations**
- Dormouse Record Accurate to 100m
 - Dormouse Record Accurate to 1km
 - C Dormouse Record From North Somerset Council
 - D Dormouse Desktop Record
 - + Dormouse Record
 - + Dormouse Survey Location (central grid reference)

Note

Where records have an accuracy of less than 10m they are shown central within a 100m or 1km square.

This map includes data from the following sources:

- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
- © Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
- © Crown copyright 2014. All rights reserved.
- Licence number 0100031673
- Bristol Regional Environmental Records Centre (2013)
- Somerset Environmental Records Centre (2013)
- NBN Gateway
- North Somerset Council

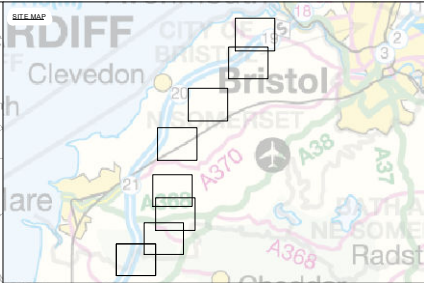
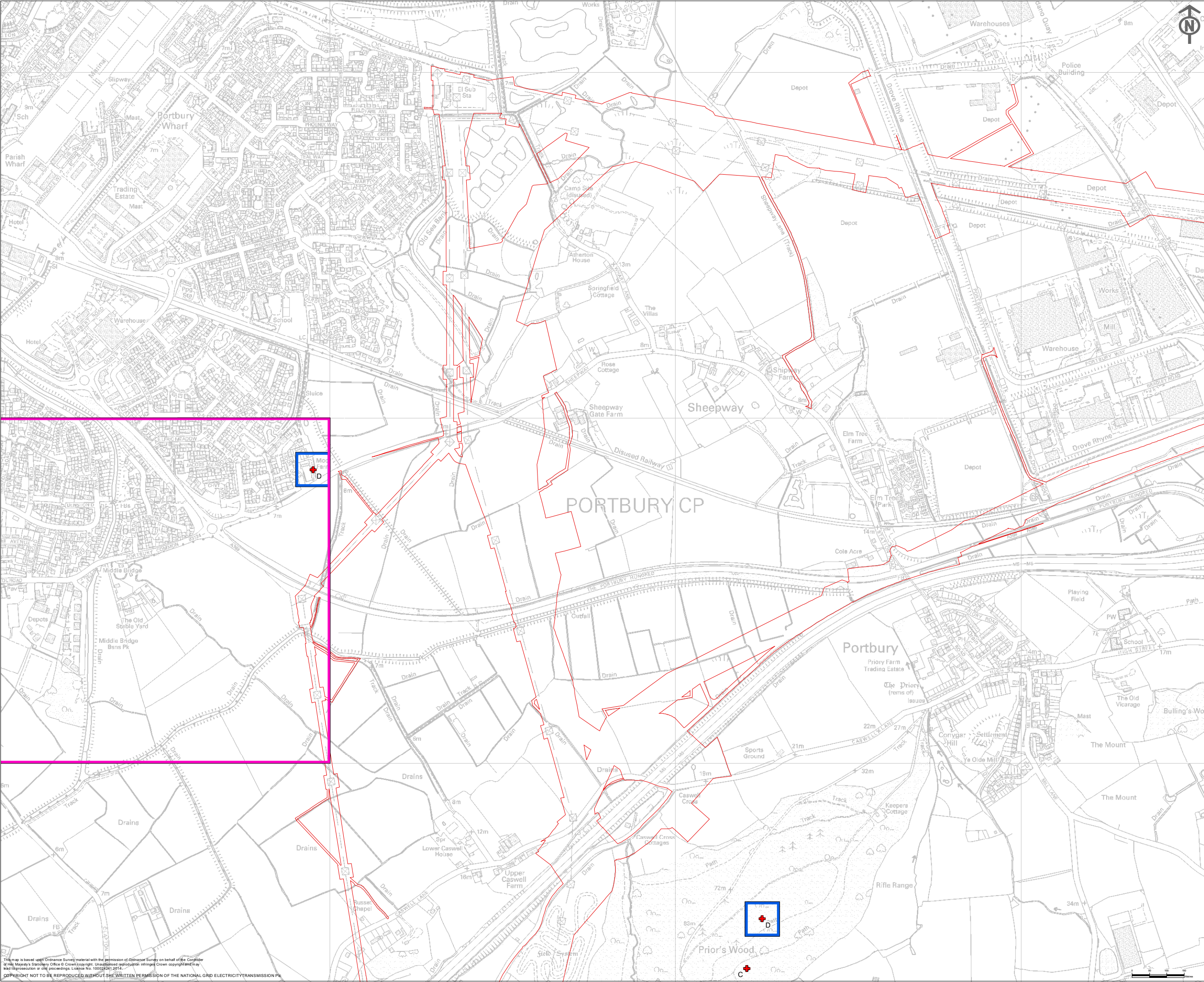
A	04/04/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title

NATIONAL GRID (HINKLEY
POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.8.3

DORMOUSE DESK STUDY
AND SURVEY LOCATIONS
INSET 12

nationalgrid		National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA	
NG INVESTMENT No.	APPLICATION No.	GIS	
20897	EN020001	A3	
FIGURE No.	DRAWING No.	SCALE	
8.44.12	G1979.1844.C	1:10,000	
SHEET 12 of 13		ISSUE	
		A	



Key

Proposed Infrastructure

Order Limits

Dormouse Desktop and Survey Locations

Dormouse Record Accurate to 100m

Dormouse Record Accurate to 1km

C Dormouse Record From North Somerset Council

D Dormouse Desktop Record

Dormouse Record

Note

Where records have an accuracy of less than 10m they are shown central within a 100m or 1km square.

This map includes data from the following sources:

- National Grid
- Ordnance Survey
- Contains Ordnance Survey data
- © Crown copyright and database right 2014.
- Reproduced from Ordnance Survey digital map data
- © Crown copyright 2014. All rights reserved.
- Licence number 0100031673
- Bristol Regional Environmental Records Centre (2013)
- Somerset Environmental Records Centre (2013)
- NBN Gateway
- North Somerset Council

A	04/04/2014	DCO SUBMISSION	AH	EJS	EJS/BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title

NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT) ENVIRONMENTAL STATEMENT VOLUME 5.8.3

DORMOUSE DESK STUDY AND SURVEY LOCATIONS INSET 13

nationalgrid

National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.	GIS A3
20897	EN020001	
FIGURE No.	DRAWING No.	SCALE
8.44.13	G1979.1844.C	1:10,000
SHEET 13 of 13		ISSUE
		A