

# High Speed Two Phase 2a (West Midlands - Crewe)

## Background Information and Data

### Map book

Ecology (EC-02, EC-04, EC-05, EC-06, EC-07, EC-08, EC-09, EC-10, EC-11, EC-12) Part 1



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Department  
for Transport

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# Contents

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Map series name	Map series description	Map book part
EC-02 - Phase 1 Habitat (1:10,000)	This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey or the area mapped is between 250-500m from the boundary of the land potentially required during construction, the information is based on available desk study and interpretation of aerial photography.	Background Information and Data map book – Ecology Part 1
EC-04 - Amphibians	This map series shows the results of amphibian surveys conducted to inform the Environmental Statement. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded.	Background Information and Data map book – Ecology Part 1
EC-05 - Bat - Roost	This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by field survey and features identified as having a high or moderate potential to support roosting bats.	Background Information and Data map book – Ecology Part 1
EC-06 - Bat - Activity	This map series shows the location of bat activity surveys conducted to inform the Environmental Statement. In addition it shows the location of the key bat foraging and commuting routes which have been established on the basis of the survey work conducted.	Background Information and Data map book – Ecology Part 1
EC-07 - Reptiles	This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.	Background Information and Data map book – Ecology Part 2
EC-08 - Breeding Birds - Protected and Notable Species	This map series shows records of protected/notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds. The location of nest sites for species such as barn owl and raptor species which may be liable to persecution are not displayed.	Background Information and Data map book – Ecology Part 2
EC-09 - Wintering and Passage Birds – Protected and Notable Species	This map series shows records of selected protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.	Background Information and Data map book – Ecology Part 2
EC-10 - Phase 2 Habitat Survey	This map series shows the extent of detailed habitat surveys undertaken to inform the Environmental Statement. The map shows the location of hedgerows that qualify as 'Important hedgerows' under the Hedgerows Regulations (1997).	Background Information and Data map book – Ecology Part 3
EC-11 - Other Protected and Notable Species (1)	This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.	Background Information and Data map book – Ecology Part 3
EC-12 - Other Protected and Notable Species (2)	This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.	Background Information and Data map book – Ecology Part 3

## Mapping explanatory notes

This map book is part of the background information and data (BID) for Phase 2a of the proposed High Speed Two (HS2) rail network between the West Midlands and Crewe (the Proposed Scheme), and comprises ecological baseline data. This map book does not form part of the Environmental Statement, but presents relevant ecological information for the Proposed Scheme.

### Copyright statements

Copyright statements are presented in the Data dictionary and definitions section at the front of the map book, due to limited space to include this on the individual maps themselves.

### Ordnance Survey data

All maps contain Ordnance Survey (OS) data. HS2 Ltd use the most up to date mapping available, where possible, supplied by the OS and as such, we cannot be held responsible for any inaccuracies within this data.

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### Chainage

The maps presented have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XX+YYY. E.g. 192+000 or 239+500.

Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres. E.g. 192+000 refers to the point, 192,000m, or 192km, from Euston Station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000 scale chainage is shown at 5km intervals. For maps at 1:25,000 scale chainage is shown at 2km intervals. For maps at 1:20,000, 1:10,000, 1:5,000 and 1:2,500 scales, chainage is shown at 1km intervals.

Chainage has been included on the maps as a useful tool for comparing different map sets showing the different environmental themes or engineering plans, due to map sets having different scales and therefore showing differing amounts of alignment on the map.

### Map orientation

The maps presented in this map book are presented with the railway alignment running horizontally across the page. The direction of travel to London would be following the alignment to the right hand side of the page, and Crewe to the left.

High Speed Two Phase 2a (West Midlands-Crewe)  
Background Information and Data  
**Data dictionary and definitions**

## Data dictionary and definitions

Legend features	Definition	Source	Copyright
250m radius from all water bodies where presence of Great Crested Newts is confirmed.	250m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
50m radius from all water bodies where presence of Great Crested Newts is confirmed.	50m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
500m radius from all water bodies where presence of Great Crested Newts is confirmed.	500m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
Activity transect route	Transect route that was surveyed during bat activity surveys.	High Speed Two (HS2) Ltd	
Areas isolated by significant barriers to amphibian movement	Areas isolated by significant barriers to amphibian movement.	High Speed Two (HS2) Ltd	
Assumed key areas of foraging habitat	Likely areas of bat foraging habitat for local bat populations, derived from bat activity survey results.	High Speed Two (HS2) Ltd	
Assumed key commuting route	Key commuting and foraging bat routes that have been identified by an ecologist after review of available survey data and application of professional judgement.	High Speed Two (HS2) Ltd	
Bat activity static detector location	Location where bat activity static detectors were used during survey period.	High Speed Two (HS2) Ltd	
Community area boundary	The Proposed Scheme has been split into 5 sections called Community Areas.	High Speed Two (HS2) Ltd	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
Confirmed bat roost – building: Hibernation roost Maternity roost Other roost Multiple roost types  Potential to support roosting bats – buildings: High Moderate	Locations where bat roost survey has been completed within buildings. Buildings are categorised into those with potential to support bat roosts (high and medium potential) and those that have confirmed roosts. Confirmed roosts are further categorised into Hibernation, Maternity, Other or Multiple roosts.	High Speed Two (HS2) Ltd	
Confirmed bat roost – trees: Hibernation roost Maternity roost Other roost Multiple roost types  Potential to support roosting bats – trees: High Moderate	Locations where bat roost survey has been completed within trees. Trees are categorised into those with potential to support bat roosts (high and medium potential) and those that have confirmed roosts. Confirmed roosts are further categorised into Hibernation, Maternity, Other or Multiple roosts.	High Speed Two (HS2) Ltd	
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
Depot, station, headhouse or portal building	Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures.	High Speed Two (HS2) Ltd	
District/Borough boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.

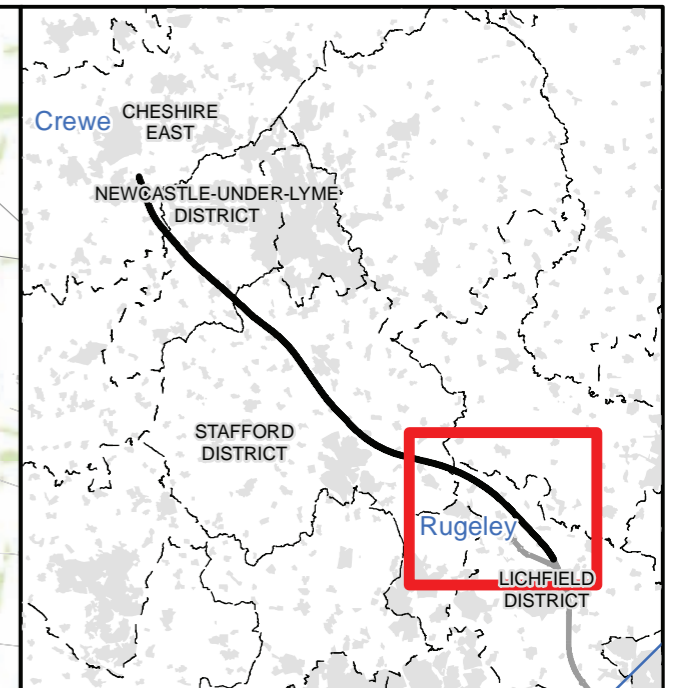
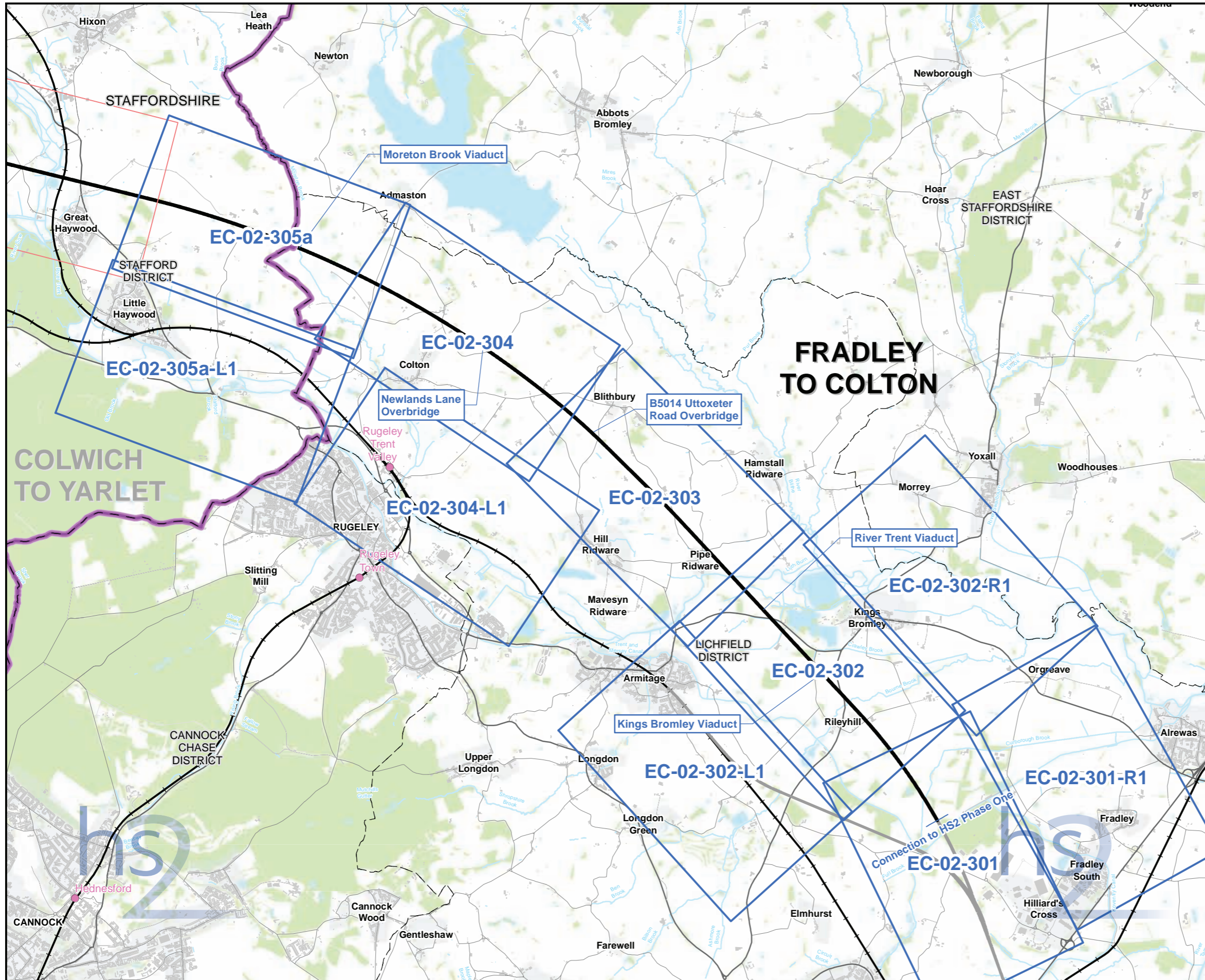


Legend features	Definition	Source	Copyright
Great Crested Newt (GCN) survey locations	Results from Great Crested Newt pond surveys.	High Speed Two (HS2) Ltd	
Land potentially required during construction	Boundary defining the maximum possible extent of construction works required to build HS2 as far as the current level of design allows. This only covers surface works and includes all tunnel portals, vent shafts and headhouses, but does not apply to wholly tunnelled sections or to air rights. It also encompasses associated highway, access, drainage and utility works.	High Speed Two (HS2) Ltd	
Phase 1 Habitat survey data	Results from Phase1 habitat surveys.	High Speed Two (HS2) Ltd	
Route in tunnel Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Water body	Any mass of water having definite hydrological, physical, chemical and biological characteristics.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
Watercourse	Any channel through which water flows, can be natural or manmade. They are split into two categories (main rivers or ordinary watercourses) in England and Wales for regulation purposes.	Environment Agency	© Environment Agency copyright and/or database right 2017. All rights reserved.
Woodland (not verified by survey) Woodland (verified by survey)	Woodland areas derived from Ordnance Survey MasterMap data.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.

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High Speed Two Phase 2a (West Midlands-Crewe)  
Background Information and Data  
**EC-02 - Phase 1 Habitat (1:10,000)**



**Map Series Information:**

This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey or the area mapped is between 250-500m from the CCB, the information is based on available desk study and interpretation of aerial photography.

**Main Map Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number	EC-02-INDEX-CA1
Map Name	Index Map of: Phase 1 Habitat (1:10,000) Community Area 1: Fradley to Colton

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







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




















Doc Number: C861-ARP-EV-MAP-000-072001-P03 Date: 14/06/17

### Phase 1 Habitat survey legend



















#### Habitat Areas

-  Broadleaved woodland - semi-natural
-  Broadleaved woodland - plantation
-  Coniferous woodland - semi-natural
-  Coniferous woodland - plantation
-  Mixed woodland - semi-natural
-  Mixed woodland - plantation
-  Scrub - dense/continuous
-  Scrub - scattered
-  Broadleaved parkland/scattered trees
-  Coniferous parkland/scattered trees
-  Mixed parkland/scattered trees
-  Broadleaved woodland - recently felled
-  Mixed woodland - recently felled
-  Acid grassland - unimproved
-  Acid grassland - semi-improved
-  Neutral grassland - unimproved
-  Neutral grassland - semi-improved
-  Calcareous grassland - unimproved
-  Calcareous grassland - semi-improved
-  Improved grassland
-  Marsh/marshy grassland

-  Poor semi-improved grassland
-  Bracken - continuous
-  Bracken - scattered
-  Upland species-rich ledges
-  Other tall herb and fern - ruderal
-  Other tall herb and fern - non ruderal
-  Dry dwarf shrub heath - acid
-  Lichen/bryophyte heath
-  Dry heath/acid grassland
-  Wet modified bog
-  Fen - valley mire
-  Swamp
-  Marginal and inundation - inundation vegetation
-  Standing water
-  Standing water - eutrophic
-  Standing water - mesotrophic
-  Running water
-  Limestone pavement
-  Other exposure - basic
-  Cave
-  Quarry

-  Spoil
-  Refuse-tip
-  Cultivated/disturbed land - arable
-  Cultivated/disturbed land - amenity grassland
-  Cultivated/disturbed land - ephemeral/short perennial
-  Introduced shrub
-  Intact hedge - native species-rich
-  Intact hedge - species-poor
-  Defunct hedge - native species-rich
-  Defunct hedge - species-poor
-  Hedge with trees - native species-rich
-  Hedge with trees - species-poor
-  Fence
-  Wall
-  Dry ditch
-  Boundary removed
-  Earth bank
-  Caravan site
-  Buildings
-  Bare ground
-  Other habitat

#### Linear Habitats

-  Scrub - scattered
-  Broadleaved parkland/scattered trees
-  Coniferous parkland/scattered trees
-  Mixed parkland/scattered trees
-  Upland species-rich ledges
-  Marginal and inundation - marginal vegetation
-  Running water
-  Intact hedge - native species-rich
-  Intact hedge - species-poor
-  Defunct hedge - native species-rich
-  Defunct hedge - species-poor
-  Hedge with trees - native species-rich
-  Hedge with trees - species-poor
-  Fence
-  Wall
-  Dry ditch
-  Boundary removed
-  Earth bank

#### Point Habitats

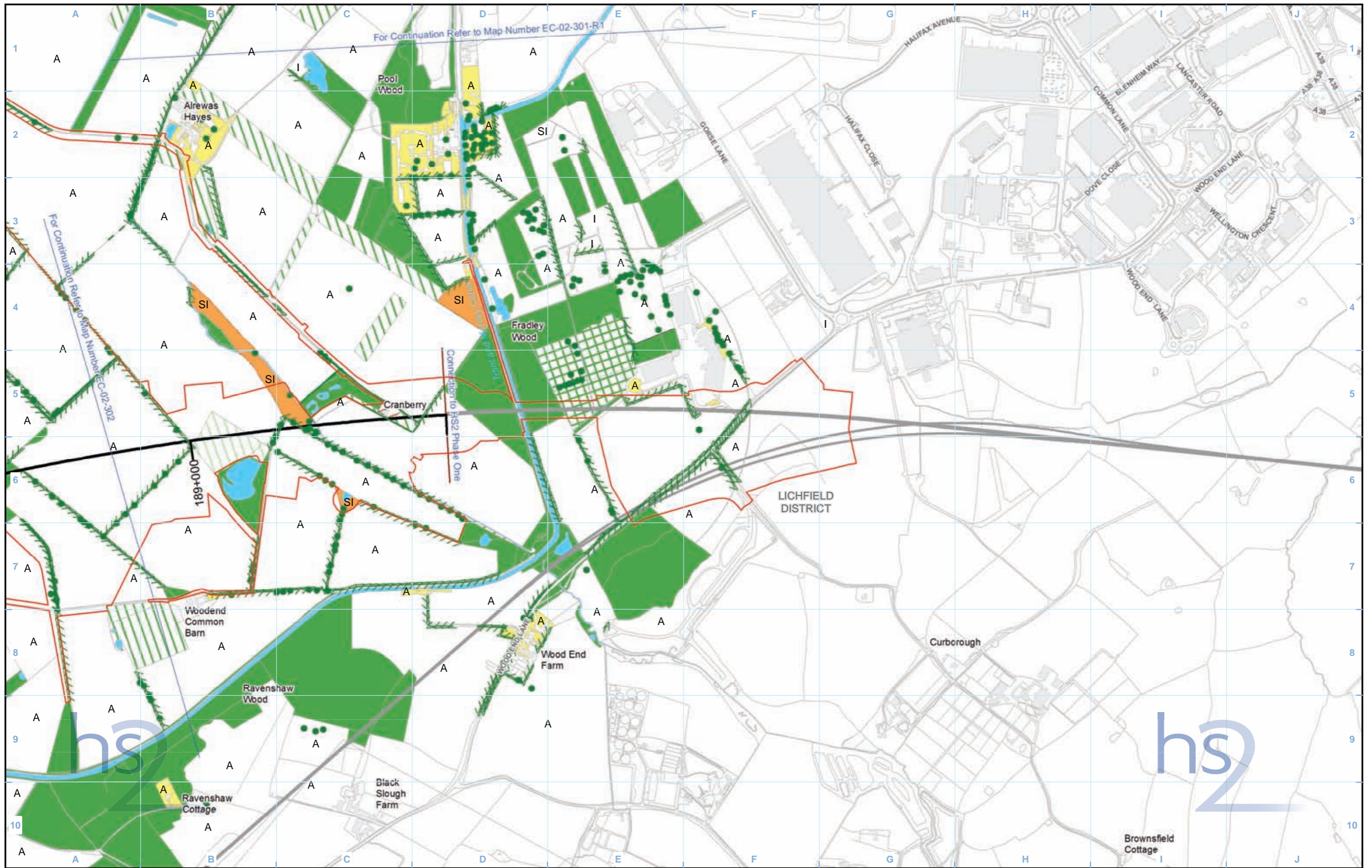
-  Scrub - scattered
-  Broadleaved parkland/scattered trees
-  Coniferous parkland/scattered trees
-  Bracken - scattered

Map Name	Legend
Map Name	Phase 1 Habitat Survey



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**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number **EC-02-301**

Map Name **Phase 1 Habitat (1:10,000)**

Community Area 1:  
Fradley to Colton

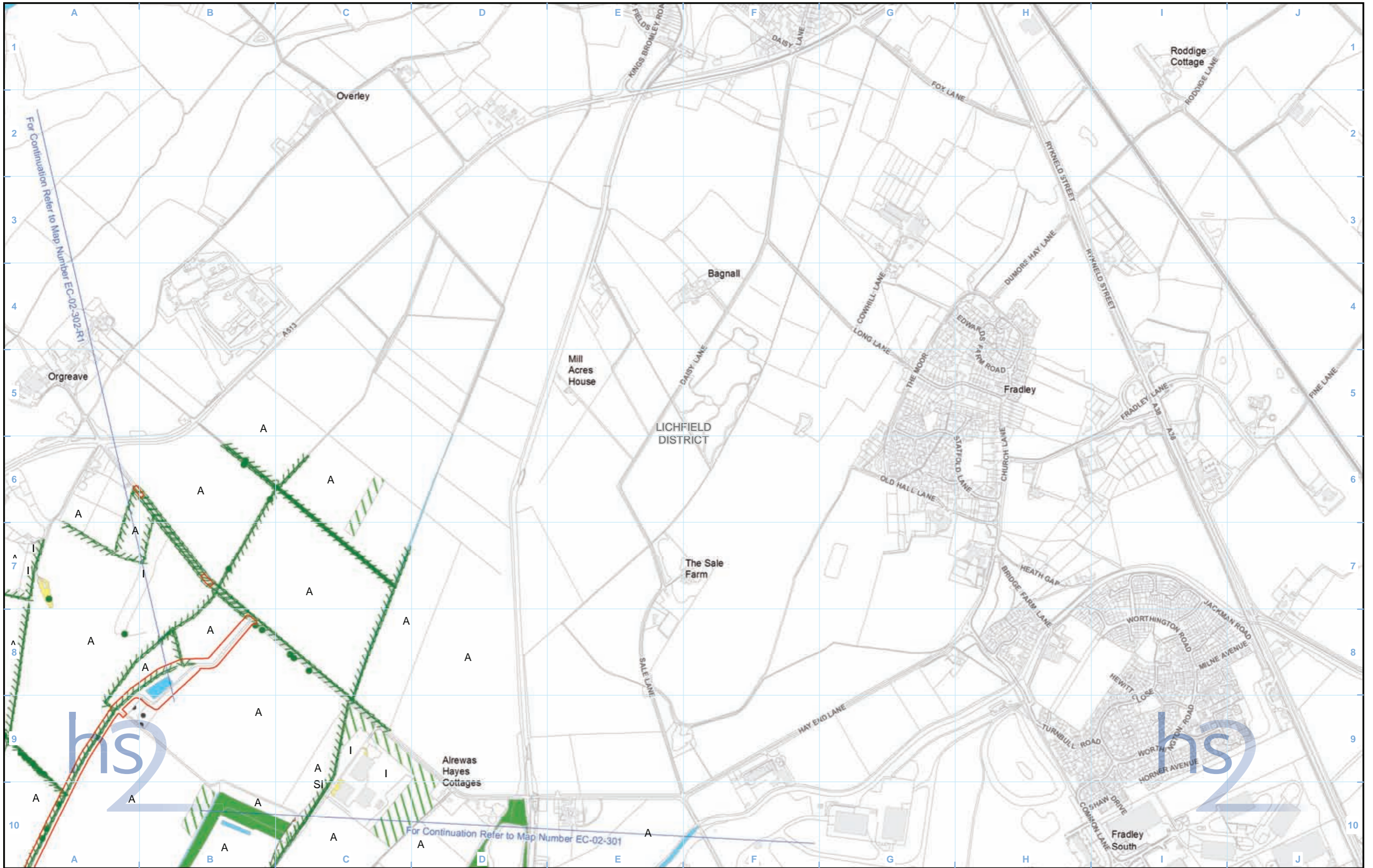
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**Legend**  
 For full legend please refer to EC-02 - Legend page

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary


Map Number	EC-02-301-R1
Map Name	Phase 1 Habitat (1:10,000)
Community Area 1: Fradley to Colton	




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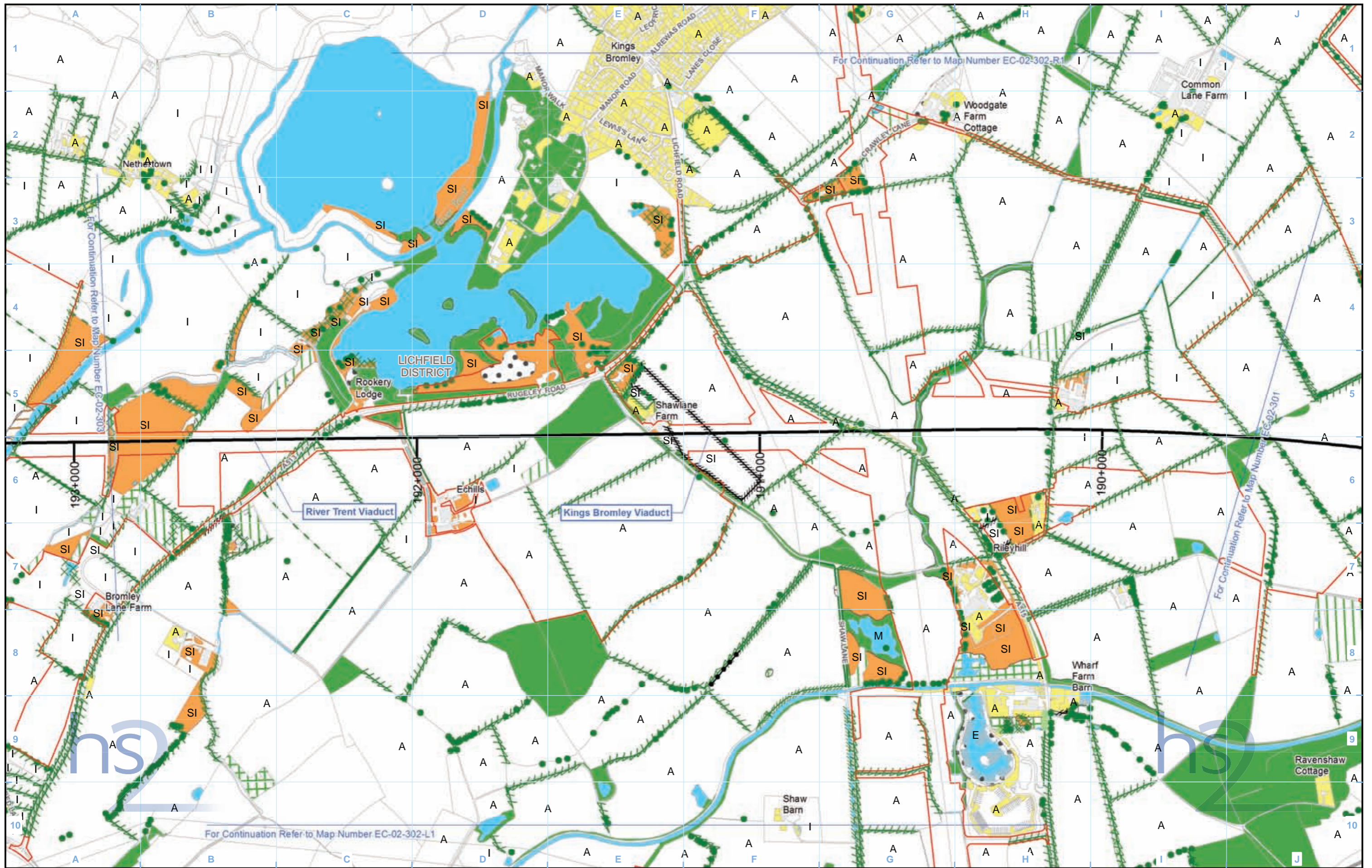


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Metres

Date: 15/06/17



**Legend**  
 - Route in bored tunnel  
 - Route on surface  
 - Depot, station, headhouse or portal building  
 - Land potentially required during construction  
 - Community area boundary  
 - County boundary  
 - District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number	EC-02-302
Map Name	Phase 1 Habitat (1:10,000)
Community Area 1: Fradley to Colton	

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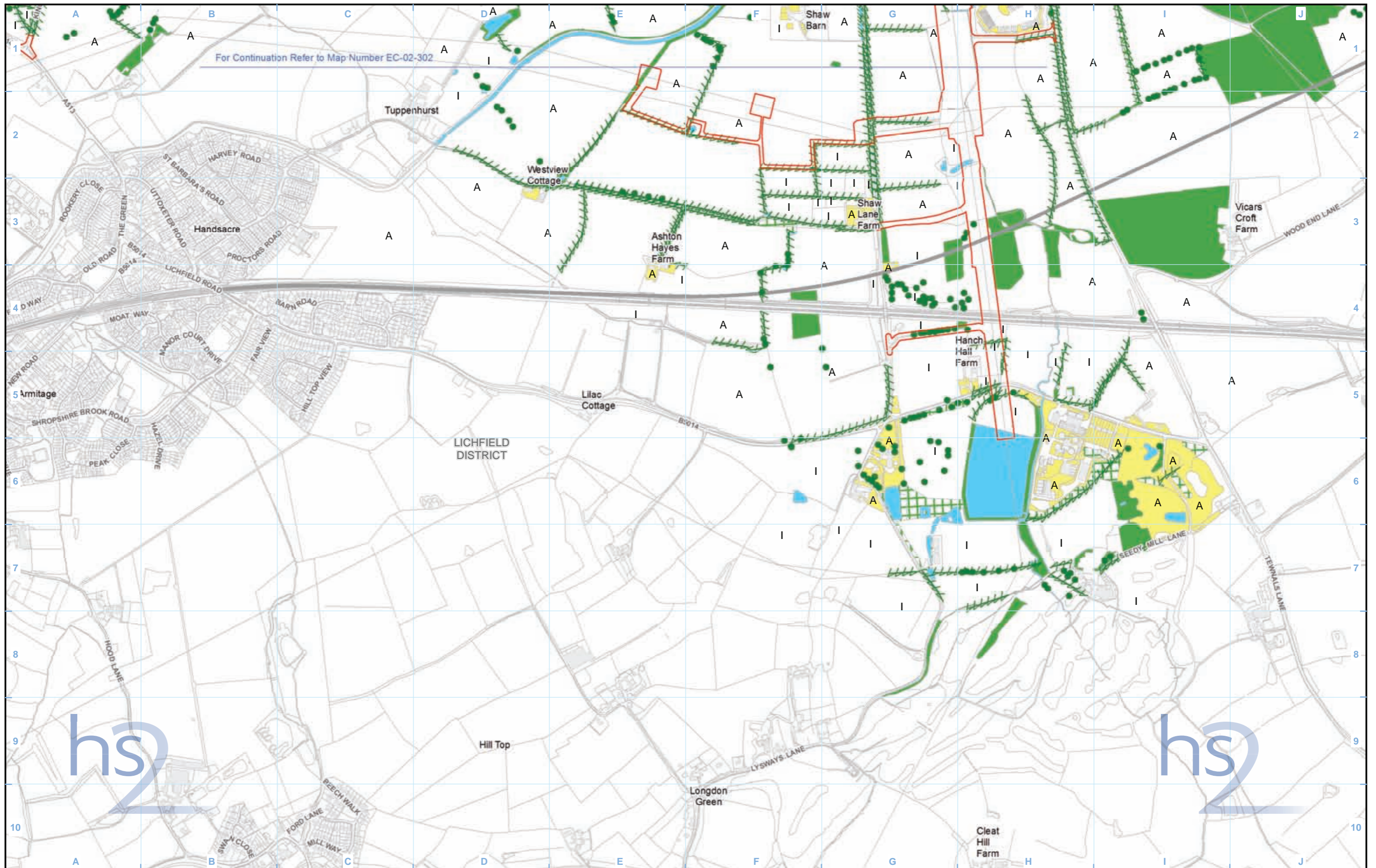
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Metres

Date: 15/06/17







For Continuation Refer to Map Number EC-02-302

**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number: EC-02-302-L1

Map Name: Phase 1 Habitat (1:10,000)

Community Area 1: Fradley to Colton

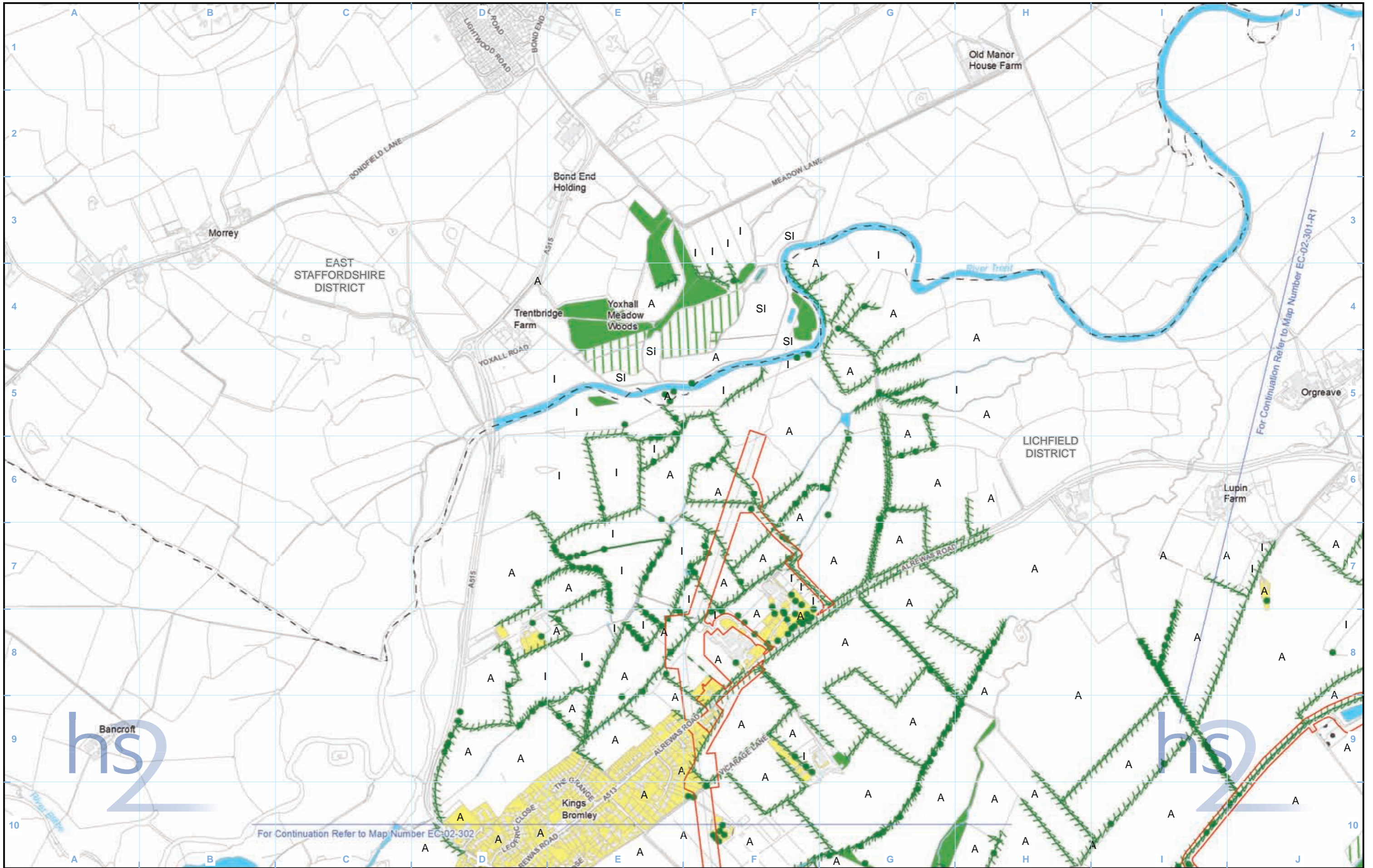
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- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

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Map Number	EC-02-302-R1
Map Name	Phase 1 Habitat (1:10,000)
Community Area 1: Fradley to Colton	




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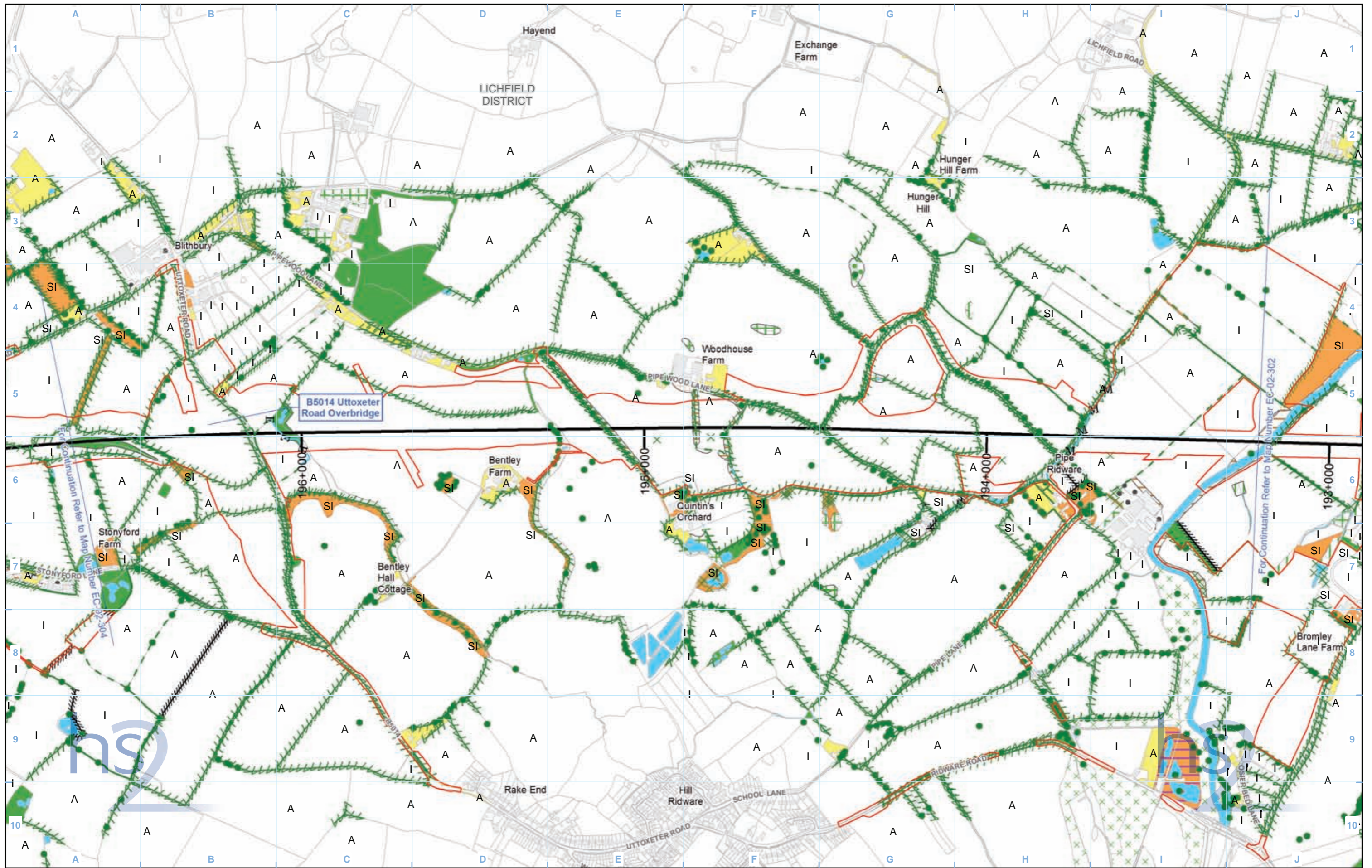


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Metres

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**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number	<b>EC-02-303</b>
Map Name	<b>Phase 1 Habitat (1:10,000)</b>
Community Area 1:	Fradley to Colton

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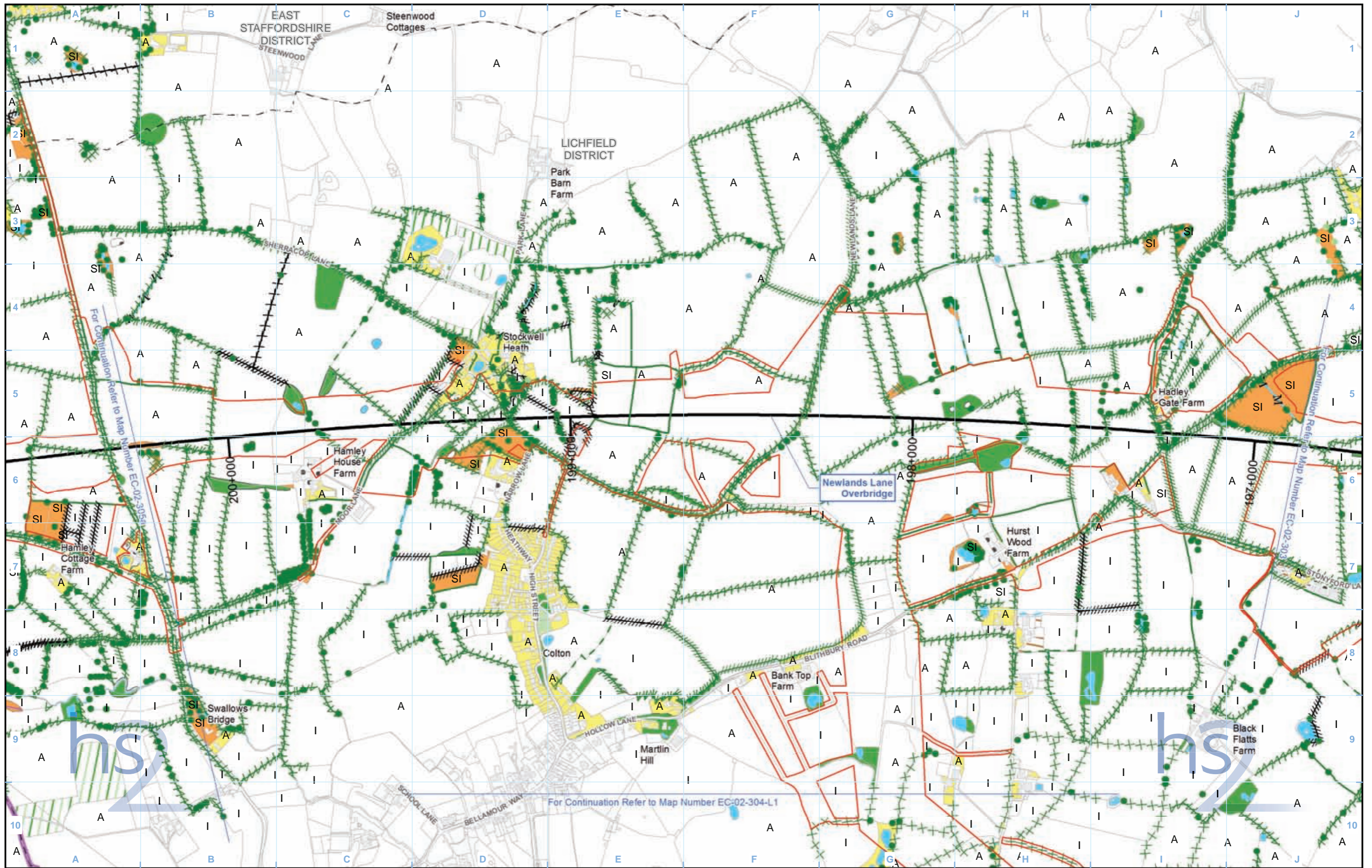
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**Legend**  
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 - Route on surface  
 - Depot, station, headhouse or portal building  
 - Land potentially required during construction  
 - Community area boundary  
 - County boundary  
 - District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number	EC-02-304
Map Name	Phase 1 Habitat (1:10,000)
Community Area 1: Fradley to Colton	

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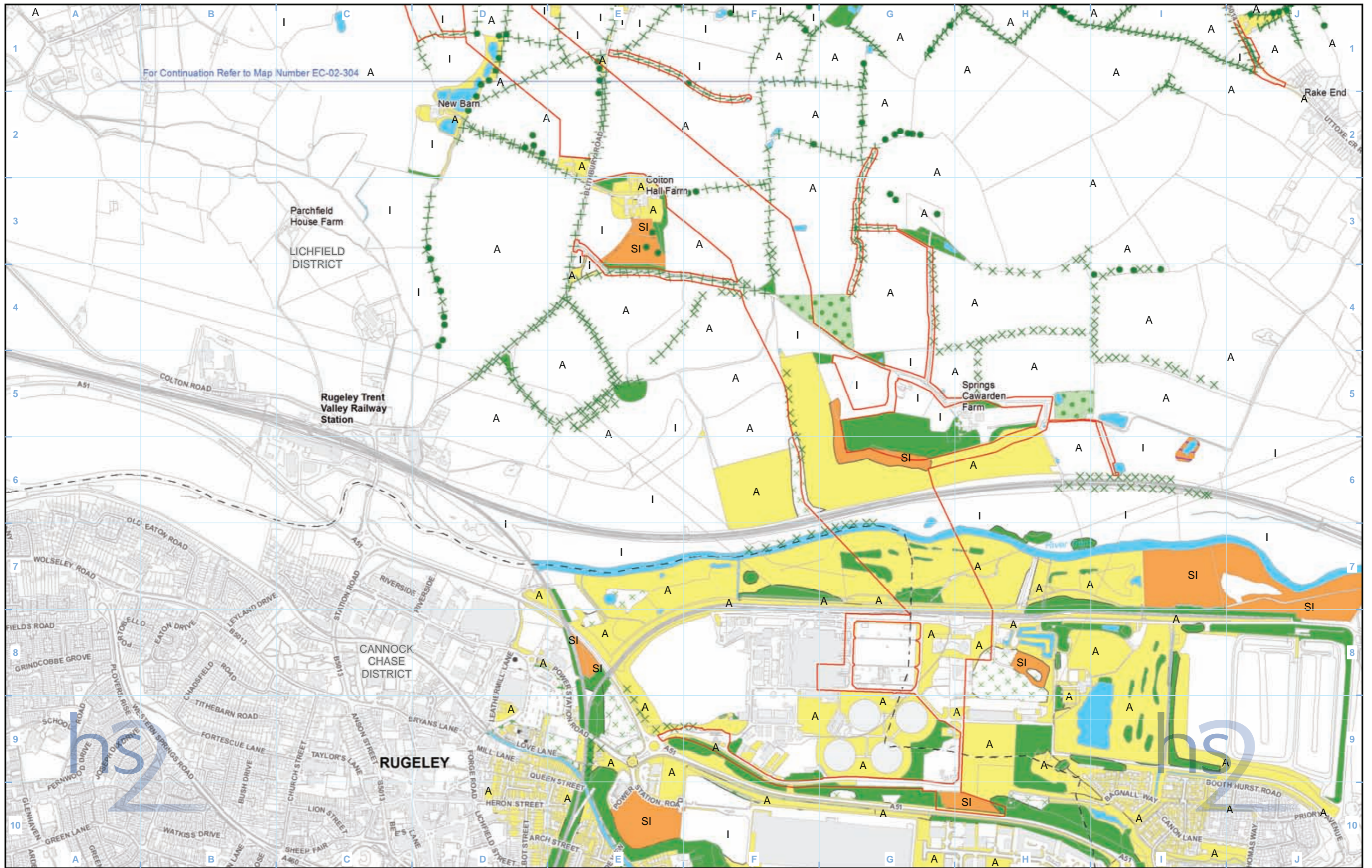
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For Continuation Refer to Map Number EC-02-304

- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

For full legend please refer to EC-02 - Legend page


Map Number	EC-02-304-L1
Map Name	Phase 1 Habitat (1:10,000)
Community Area 1: Fradley to Colton	




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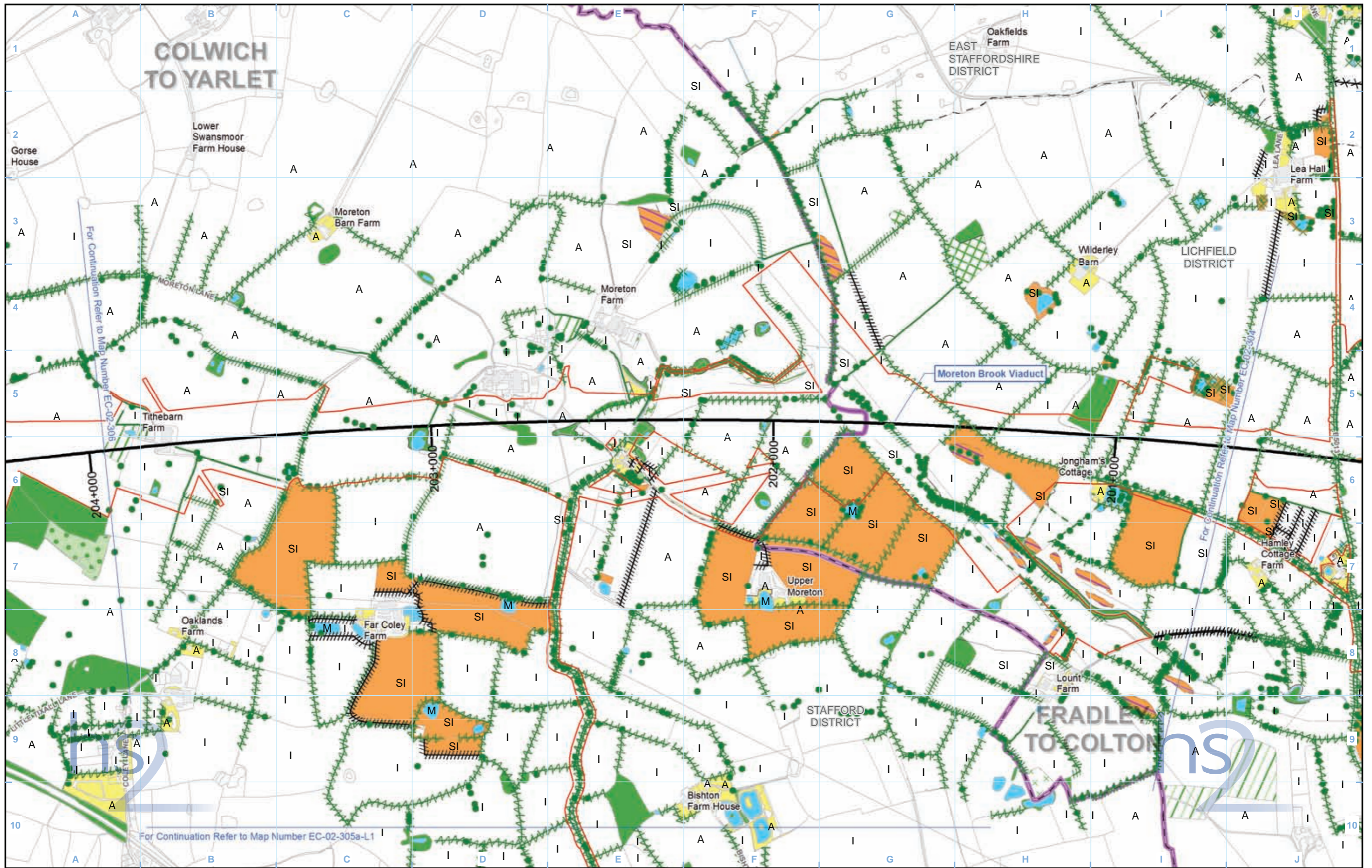


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Metres

Date: 15/06/17



**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number	EC-02-305a
Map Name	Phase 1 Habitat (1:10,000)
Community Area 1: Fradley to Colton	

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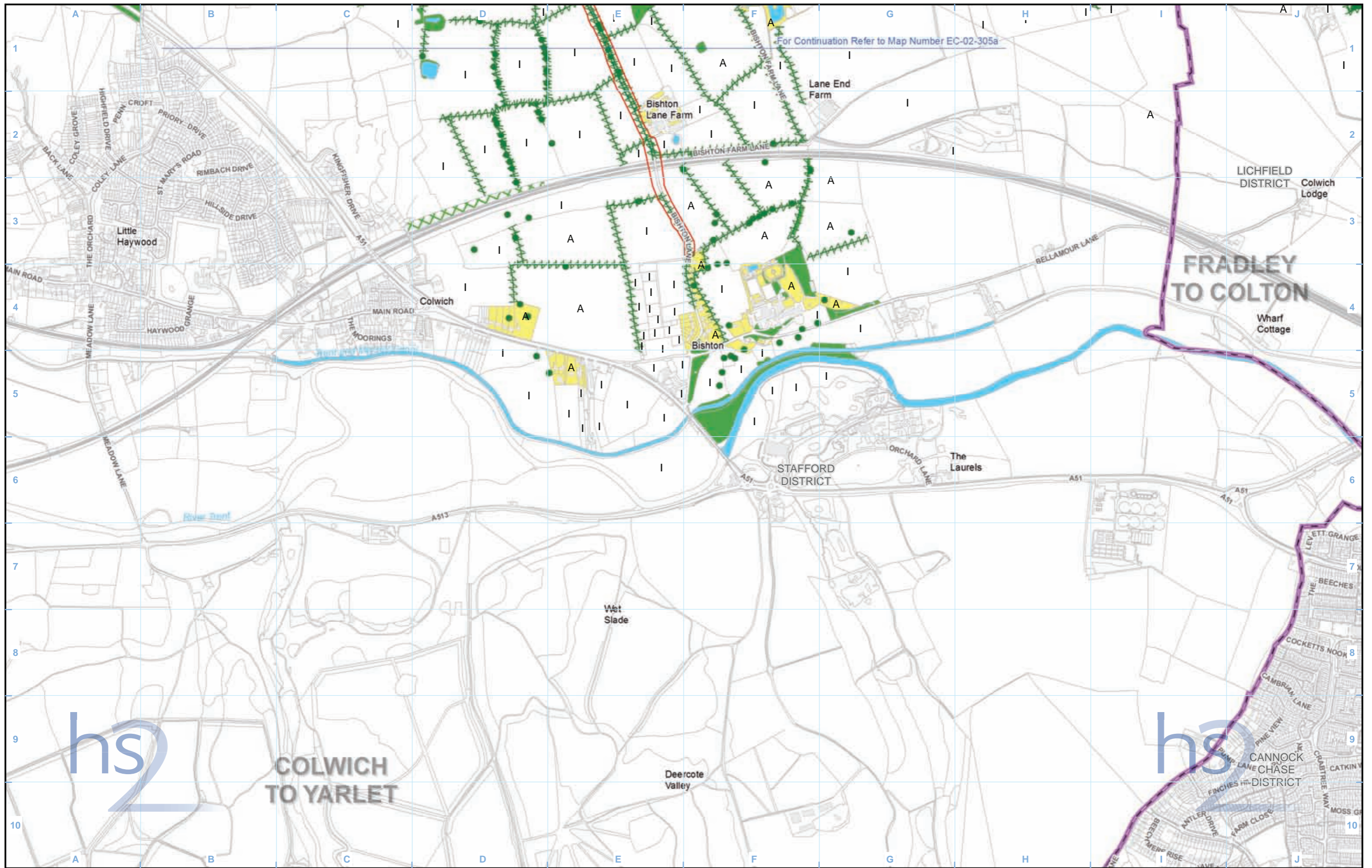
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For Continuation Refer to Map Number EC-02-305a

**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number: EC-02-305a-L1

Map Name: Phase 1 Habitat (1:10,000)

Community Area 1: Fradley to Colton

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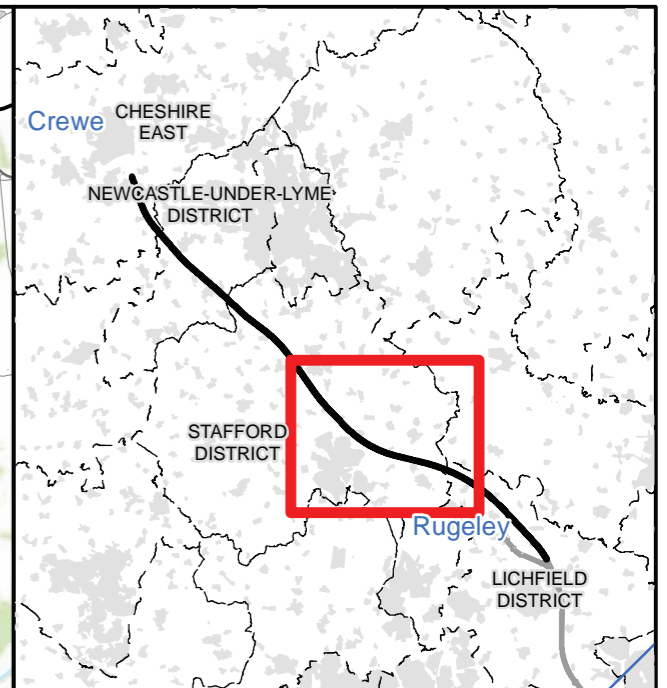
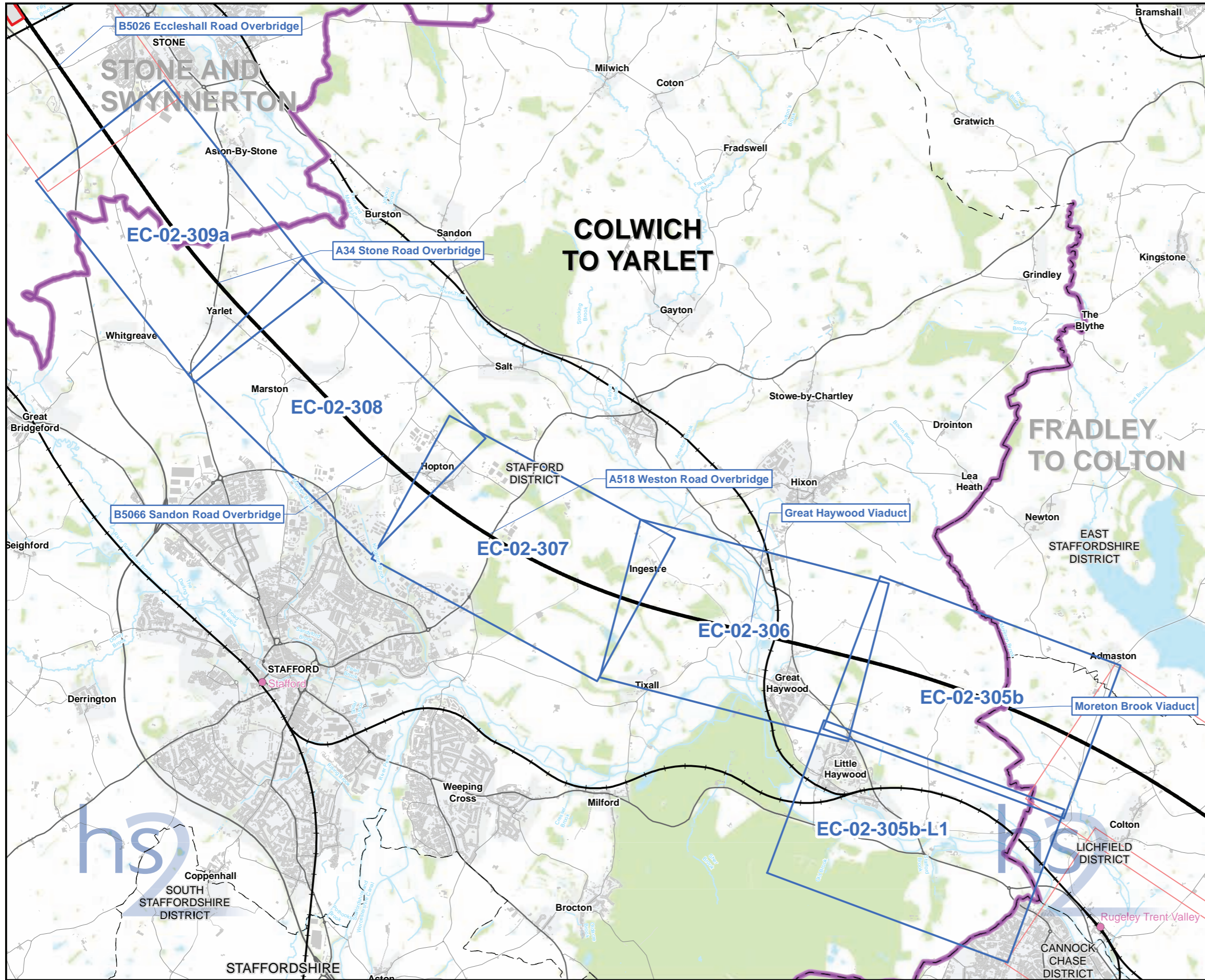
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Doc Number: C861-ARP-EV-MAP-000-072405-P03

Date: 15/06/17



**Map Series Information:**

This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey or the area mapped is between 250-500m from the CCB, the information is based on available desk study and interpretation of aerial photography.

**Main Map Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number: EC-02-INDEX-CA2

Map Name: Index Map of:  
Phase 1 Habitat  
(1:10,000)  
Community Area 2:  
Colwich to Yarlet

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Doc Number: C861-ARP-EV-MAP-000-072002-P03






















Date: 14/06/17





















## Phase 1 Habitat survey legend

### Habitat Areas

	Broadleaved woodland - semi-natural		Poor semi-improved grassland
	Broadleaved woodland - plantation		Bracken - continuous
	Coniferous woodland - semi-natural		Bracken - scattered
	Coniferous woodland - plantation		Upland species-rich ledges
	Mixed woodland - semi-natural		Other tall herb and fern - ruderal
	Mixed woodland - plantation		Other tall herb and fern - non ruderal
	Scrub - dense/continuous		Dry dwarf shrub heath - acid
	Scrub - scattered		Lichen/bryophyte heath
	Broadleaved parkland/scattered trees		Dry heath/acid grassland
	Coniferous parkland/scattered trees		Wet modified bog
	Mixed parkland/scattered trees		Fen - valley mire
	Broadleaved woodland - recently felled		Swamp
	Mixed woodland - recently felled		Marginal and inundation - inundation vegetation
	Acid grassland - unimproved		Standing water
	Acid grassland - semi-improved		Standing water - eutrophic
	Neutral grassland - unimproved		Standing water - mesotrophic
	Neutral grassland - semi-improved		Running water
	Calcareous grassland - unimproved		Limestone pavement
	Calcareous grassland - semi-improved		Other exposure - basic
	Improved grassland		Cave
	Marsh/marshy grassland		Quarry

	Spoil
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

### Linear Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

### Point Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Bracken - scattered

Map Name Legend

Map Name Phase 1 Habitat Survey

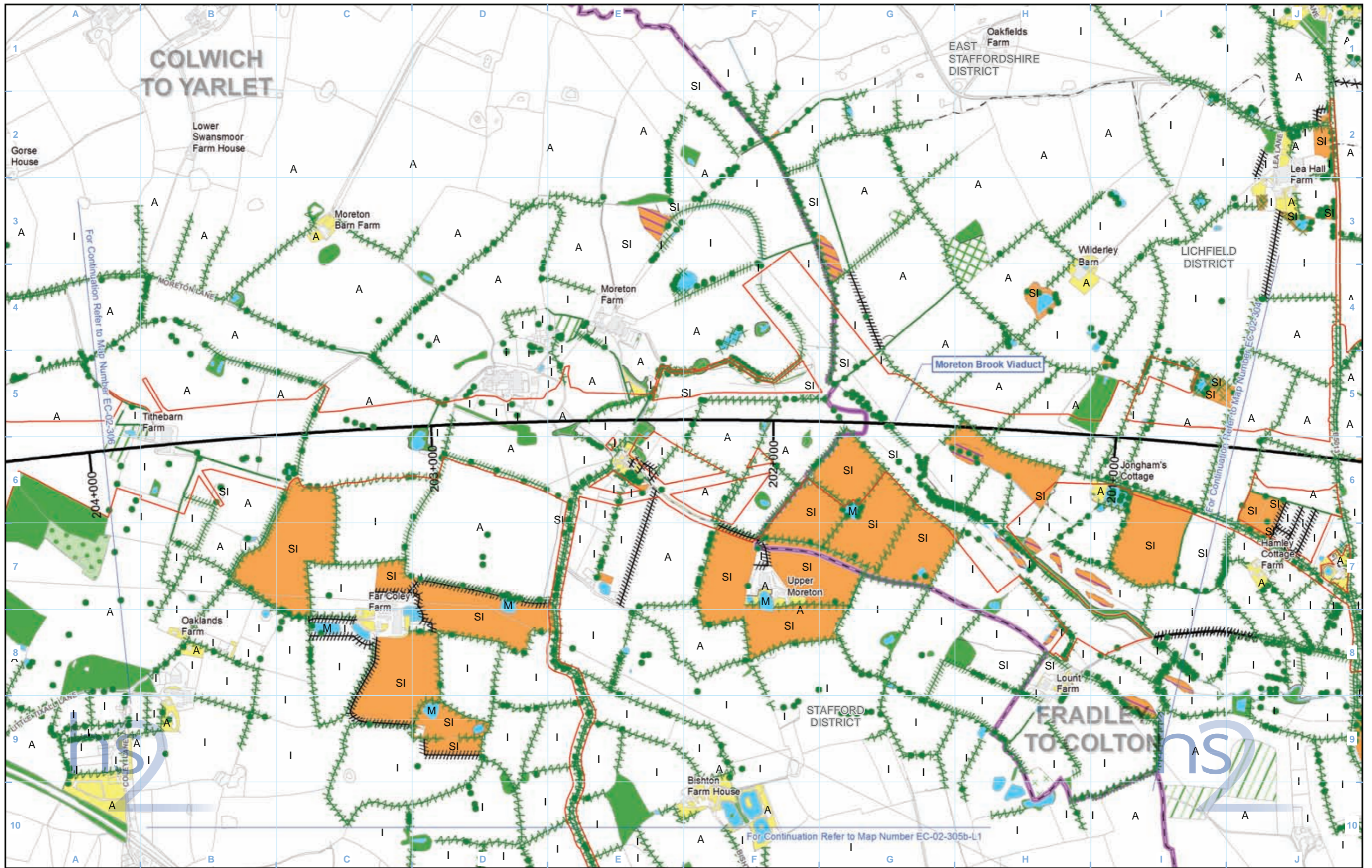


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- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number	EC-02-305b
Map Name	Phase 1 Habitat (1:10,000)
Community Area 2: Colwich to Yarlet	

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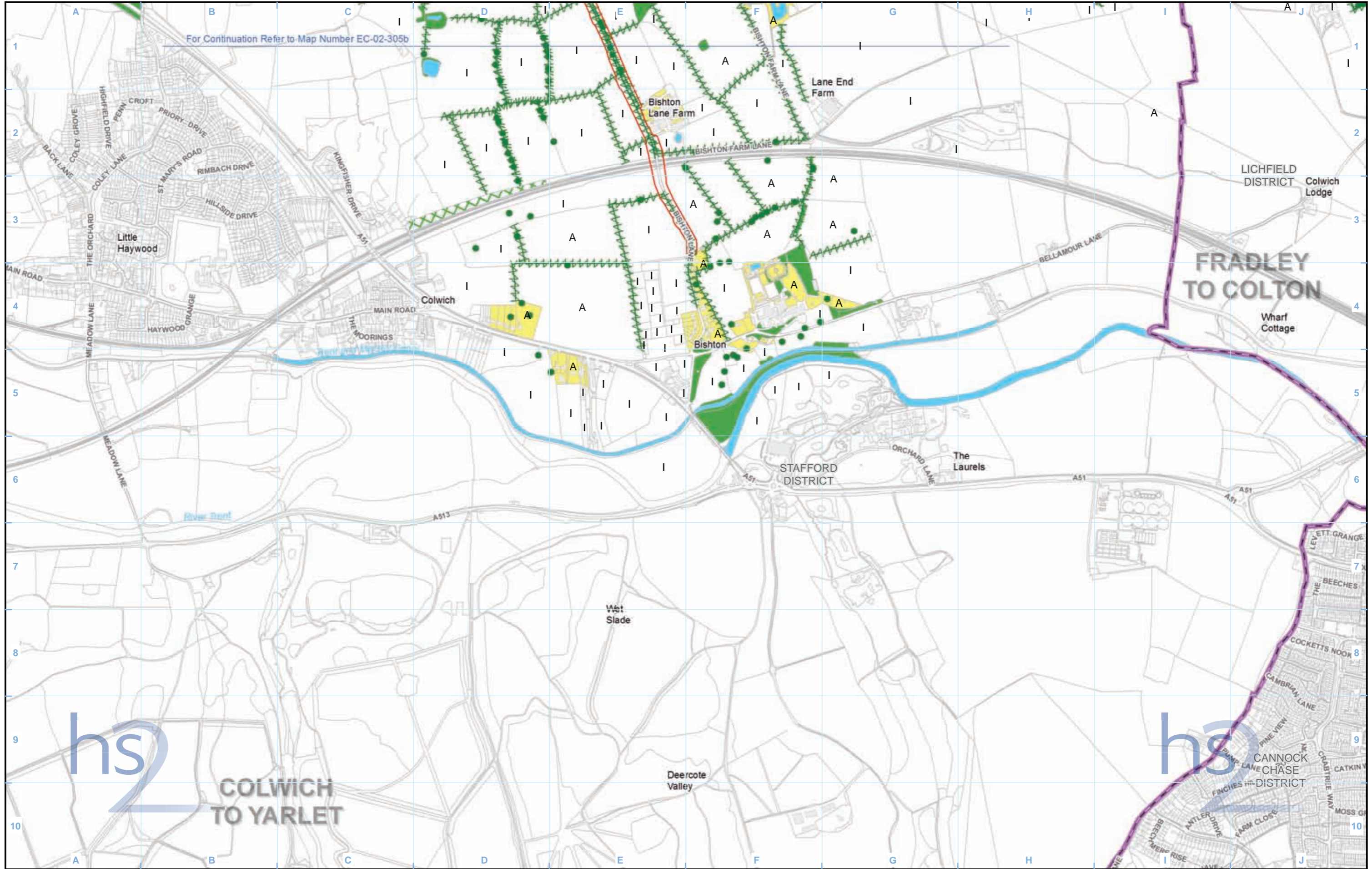
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Scale at A3: 1:10,000

Metres

Date: 15/06/17

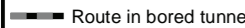
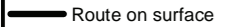
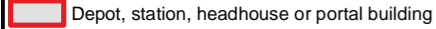
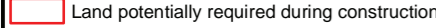
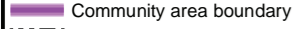
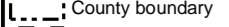
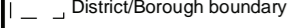
For Continuation Refer to Map Number EC-02-305b



**COLWICH TO YARLET**




**CANNOCK CHASE DISTRICT**

- Legend**
-  Route in bored tunnel
  -  Route on surface
  -  Depot, station, headhouse or portal building
  -  Land potentially required during construction
  -  Community area boundary
  -  County boundary
  -  District/Borough boundary

For full legend please refer to EC-02 - Legend page


Map Number	EC-02-305b-L1
Map Name	Phase 1 Habitat (1:10,000)
Community Area 2: Colwich to Yarlet	


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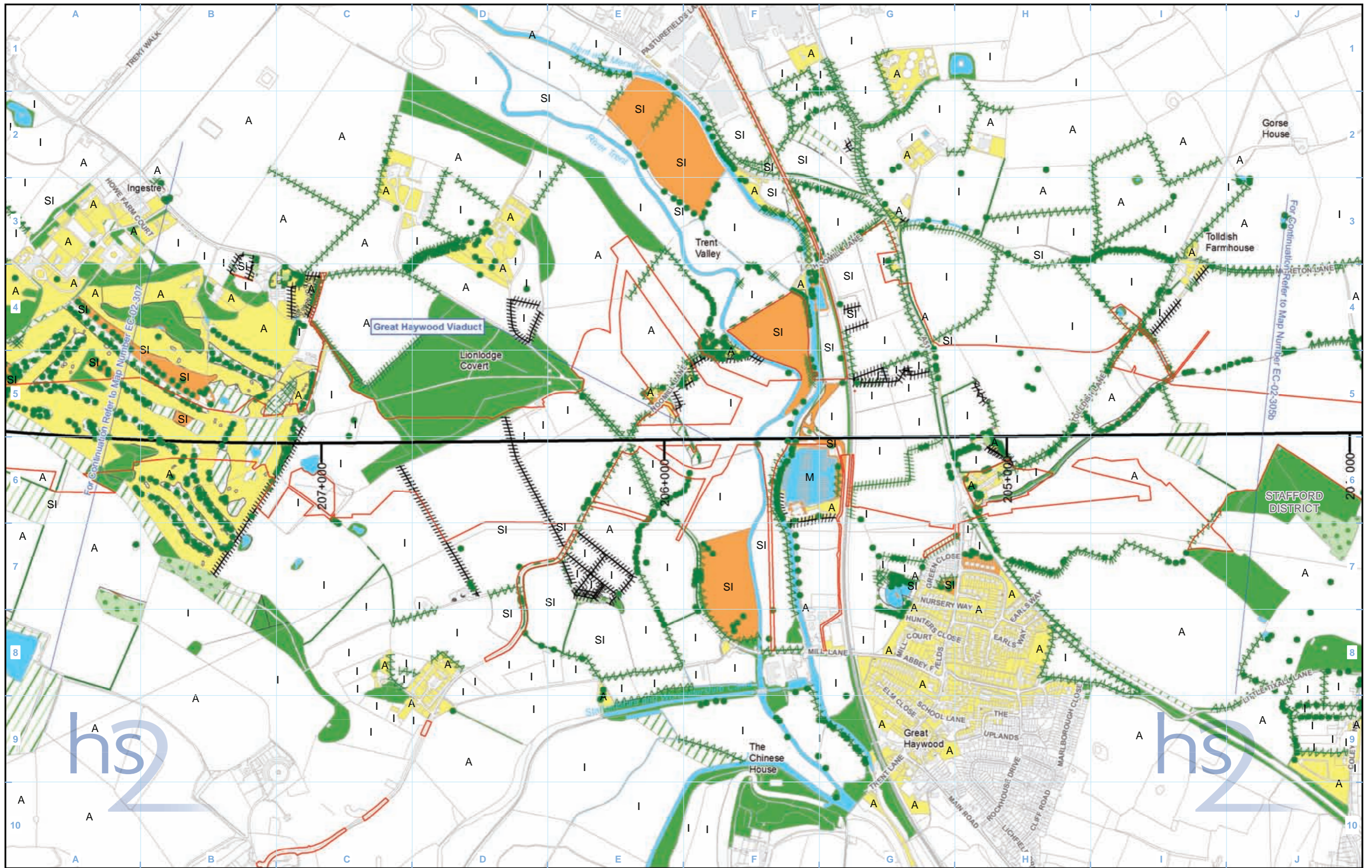
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Doc Number: C861-ARP-EV-MAP-000-072705-P03      Date: 15/06/17



**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number: EC-02-306

Map Name: Phase 1 Habitat (1:10,000)

Community Area 2: Colwich to Yarlet

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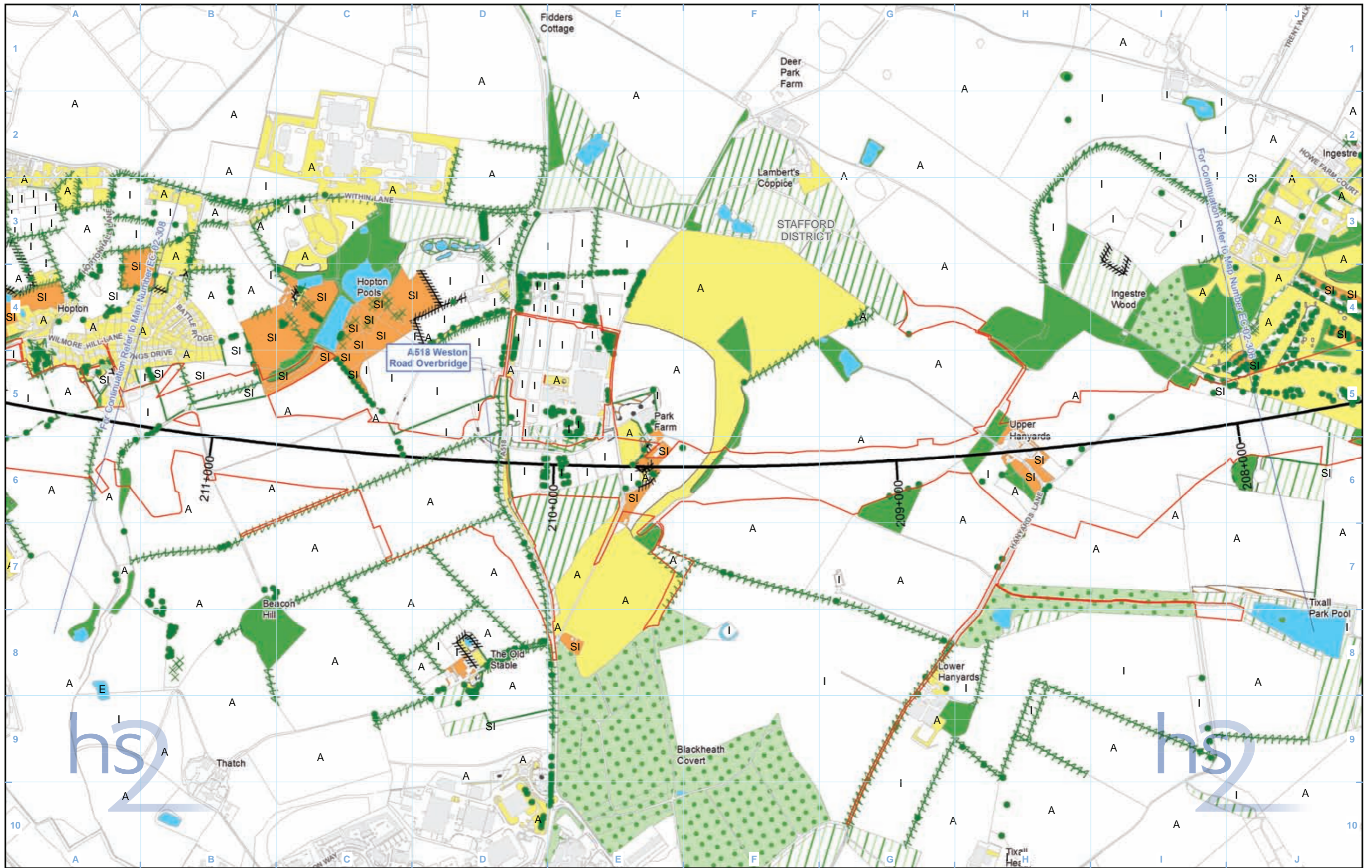
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**Legend**  
 - Route in bored tunnel  
 - Route on surface  
 - Depot, station, headhouse or portal building  
 - Land potentially required during construction  
 - Community area boundary  
 - County boundary  
 - District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number	EC-02-307
Map Name	Phase 1 Habitat (1:10,000)
Community Area 2: Colwich to Yarlet	

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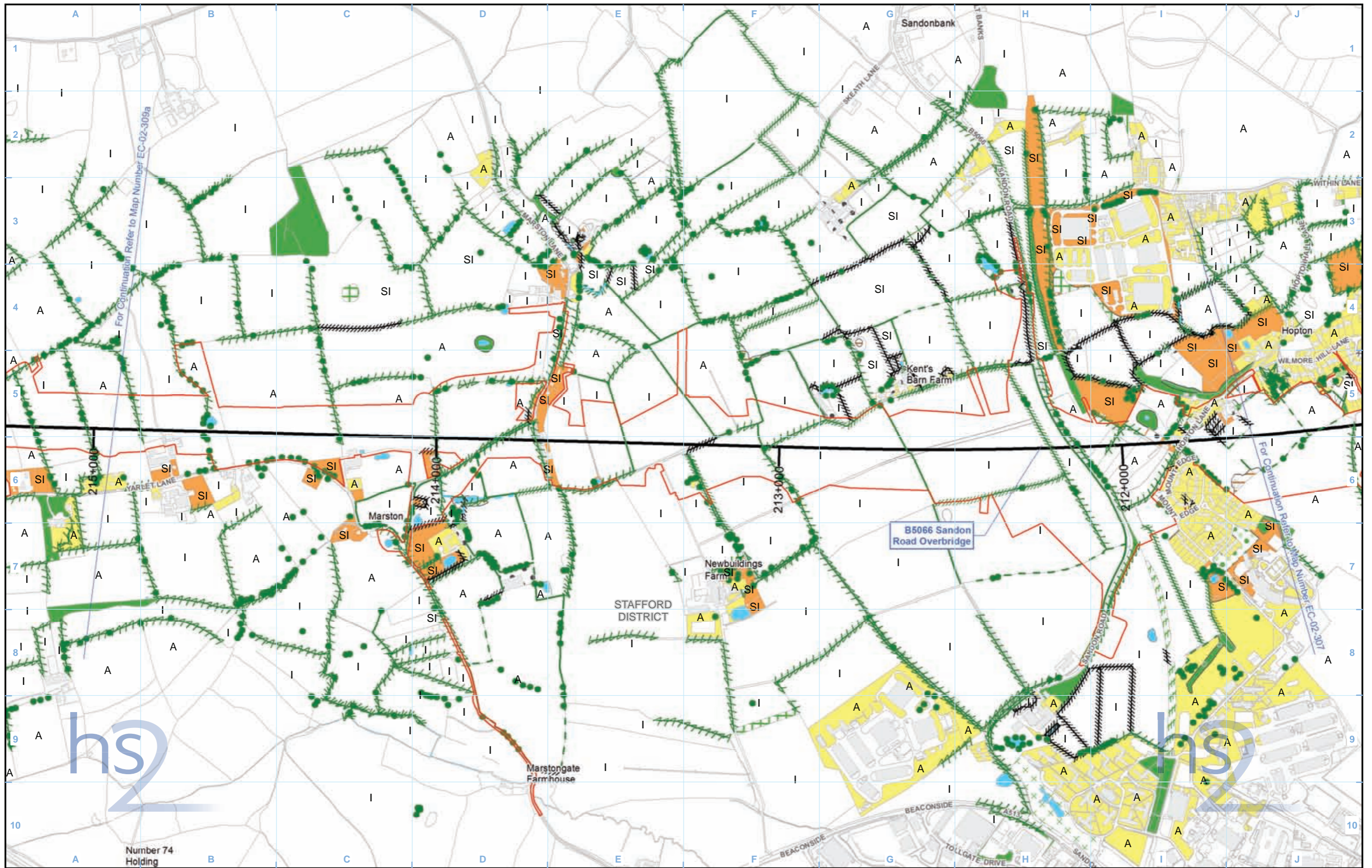
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 Metres

Doc Number: C861-ARP-EV-MAP-000-072307-P03 Date: 15/06/17



**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number  
**EC-02-308**

Map Name  
**Phase 1 Habitat  
(1:10,000)**

Community Area 2:  
Colwich to Yarlet

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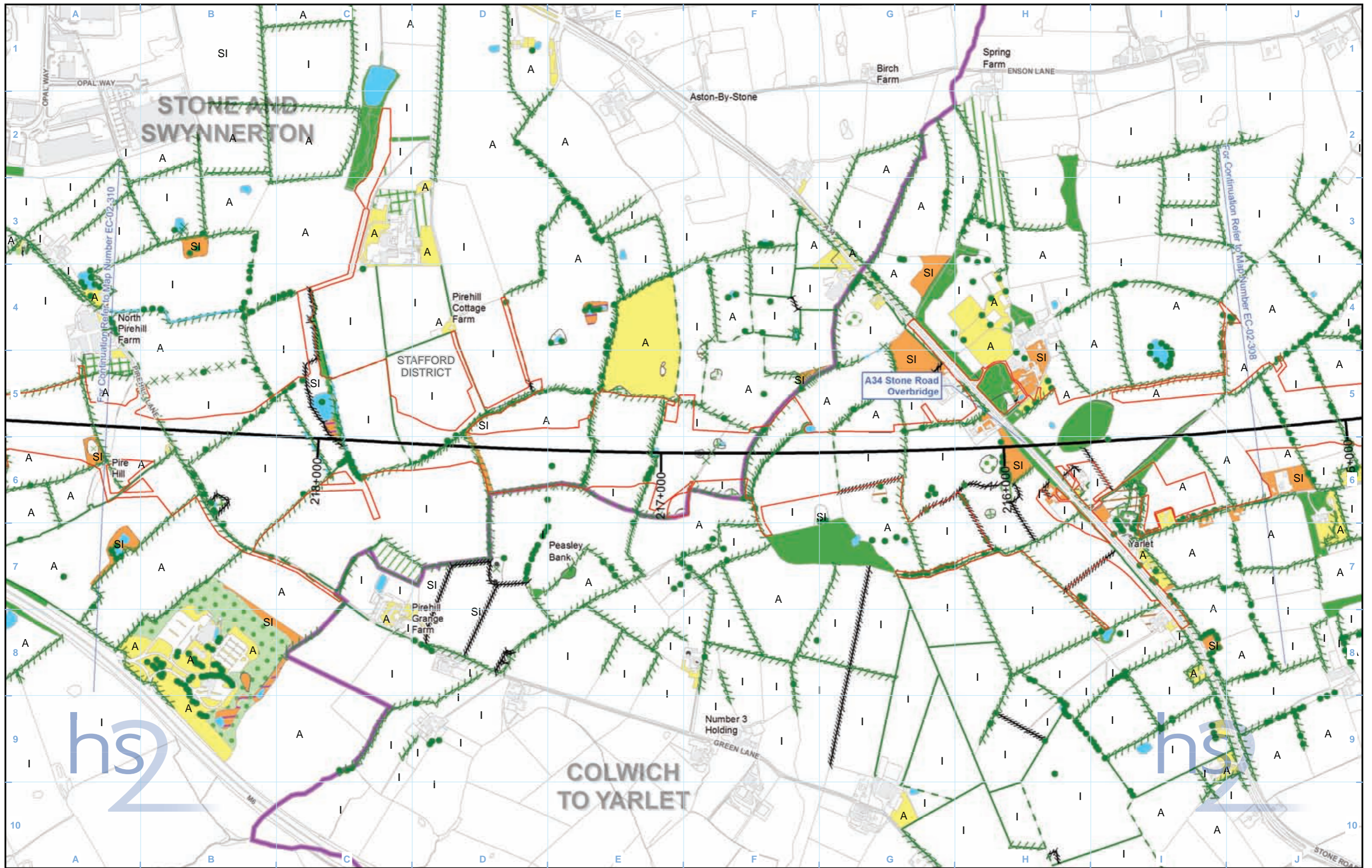
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Date: 15/06/17



**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number	EC-02-309a
Map Name	Phase 1 Habitat (1:10,000)
Community Area 2: Colwich to Yarlet	

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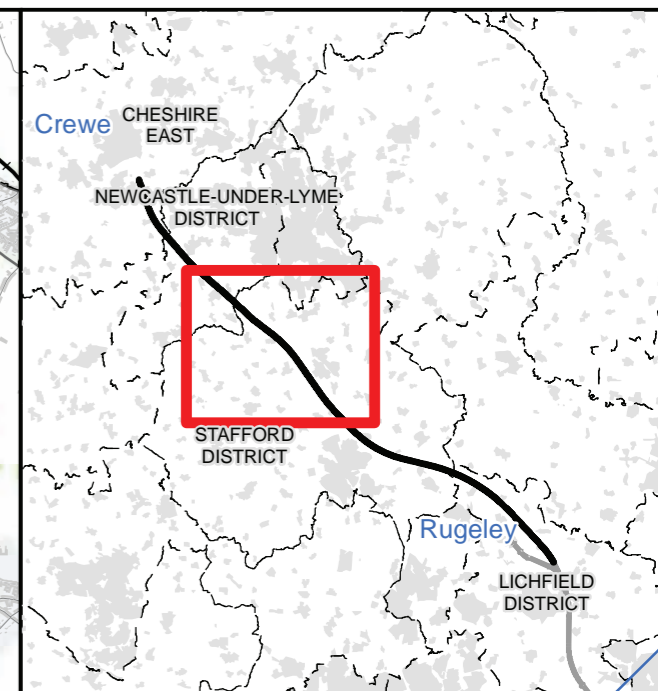
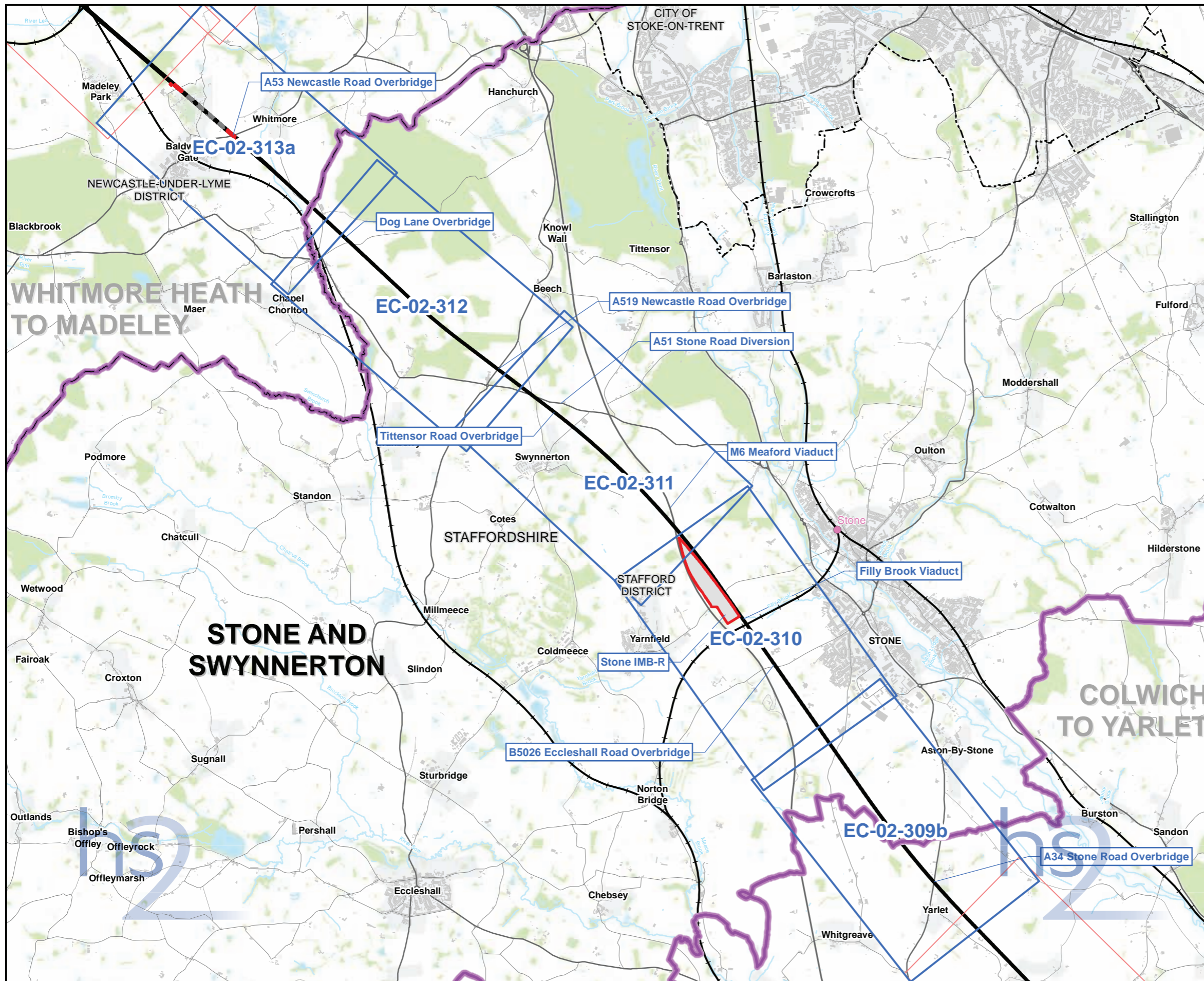
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**Doc Number:** C861-ARP-EV-MAP-000-072309-P03

Scale at A3: 1:10,000

Metres

**Date:** 15/06/17



**Map Series Information:**

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- Main Map Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Community area boundary
  - Existing railway station
  - County boundary
  - District/Borough boundary
  - Map sheets included in this community area
  - Map sheets not included in this community area

Map Number	EC-02-INDEX-CA3
Map Name	Index Map of: Phase 1 Habitat (1:10,000) Community Area 3: Stone and Swynnerton

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




















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

















## Phase 1 Habitat survey legend

### Habitat Areas

	Broadleaved woodland - semi-natural		Poor semi-improved grassland
	Broadleaved woodland - plantation		Bracken - continuous
	Coniferous woodland - semi-natural		Bracken - scattered
	Coniferous woodland - plantation		Upland species-rich ledges
	Mixed woodland - semi-natural		Other tall herb and fern - ruderal
	Mixed woodland - plantation		Other tall herb and fern - non ruderal
	Scrub - dense/continuous		Dry dwarf shrub heath - acid
	Scrub - scattered		Lichen/bryophyte heath
	Broadleaved parkland/scattered trees		Dry heath/acid grassland
	Coniferous parkland/scattered trees		Wet modified bog
	Mixed parkland/scattered trees		Fen - valley mire
	Broadleaved woodland - recently felled		Swamp
	Mixed woodland - recently felled		Marginal and inundation - inundation vegetation
	Acid grassland - unimproved		Standing water
	Acid grassland - semi-improved		Standing water - eutrophic
	Neutral grassland - unimproved		Standing water - mesotrophic
	Neutral grassland - semi-improved		Running water
	Calcareous grassland - unimproved		Limestone pavement
	Calcareous grassland - semi-improved		Other exposure - basic
	Improved grassland		Cave
	Marsh/marshy grassland		Quarry

	Spoil
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

### Linear Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

### Point Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Bracken - scattered

Map Name Legend

Map Name Phase 1 Habitat Survey

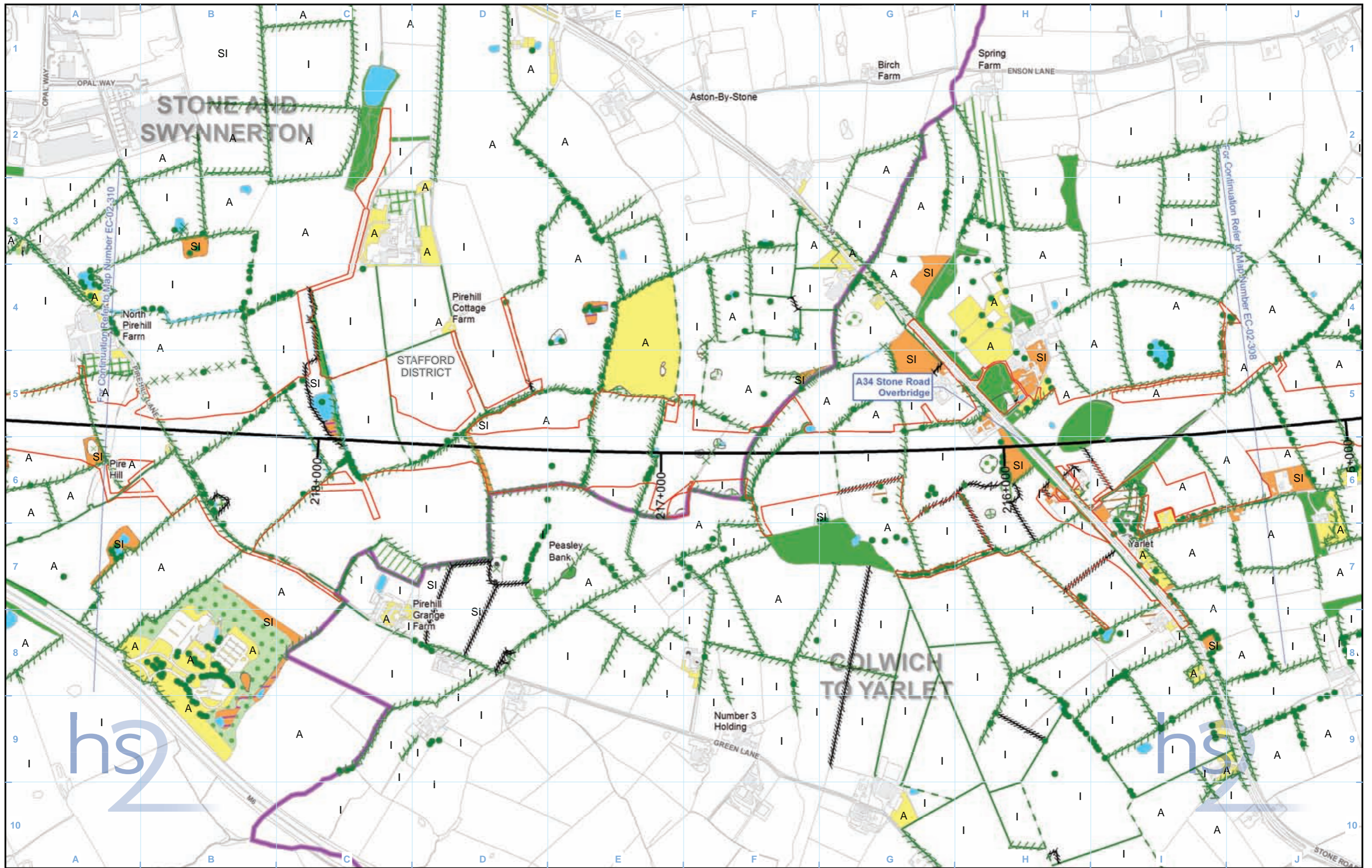


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 - Route in bored tunnel  
 - Route on surface  
 - Depot, station, headhouse or portal building  
 - Land potentially required during construction  
 - Community area boundary  
 - County boundary  
 - District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number	EC-02-309b
Map Name	Phase 1 Habitat (1:10,000)
Community Area 3: Stone and Swynnerton	

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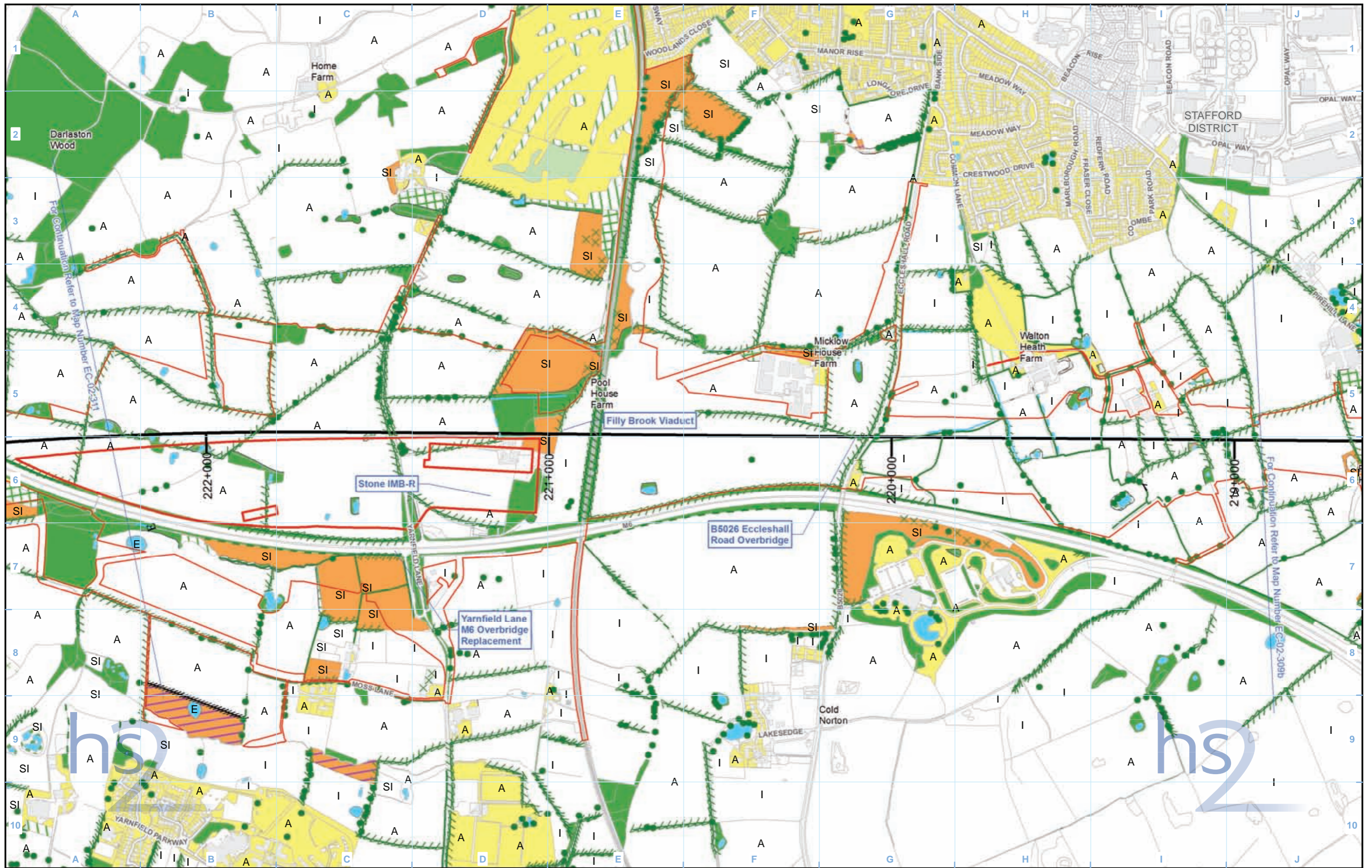
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Doc Number: C861-ARP-EV-MAP-000-072409-P03

Scale at A3: 1:10,000

0 100 200 300 400  
 Metres

Date: 15/06/17



**Legend**  
 - Route in bored tunnel  
 - Route on surface  
 - Depot, station, headhouse or portal building  
 - Land potentially required during construction  
 - Community area boundary  
 - County boundary  
 - District/Borough boundary

For full legend please refer to EC-02 - Legend page

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

Map Number EC-02-310

Map Name Phase 1 Habitat (1:10,000)

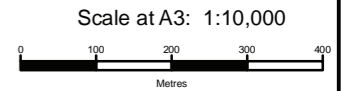
Community Area 3: Stone and Swynnerton



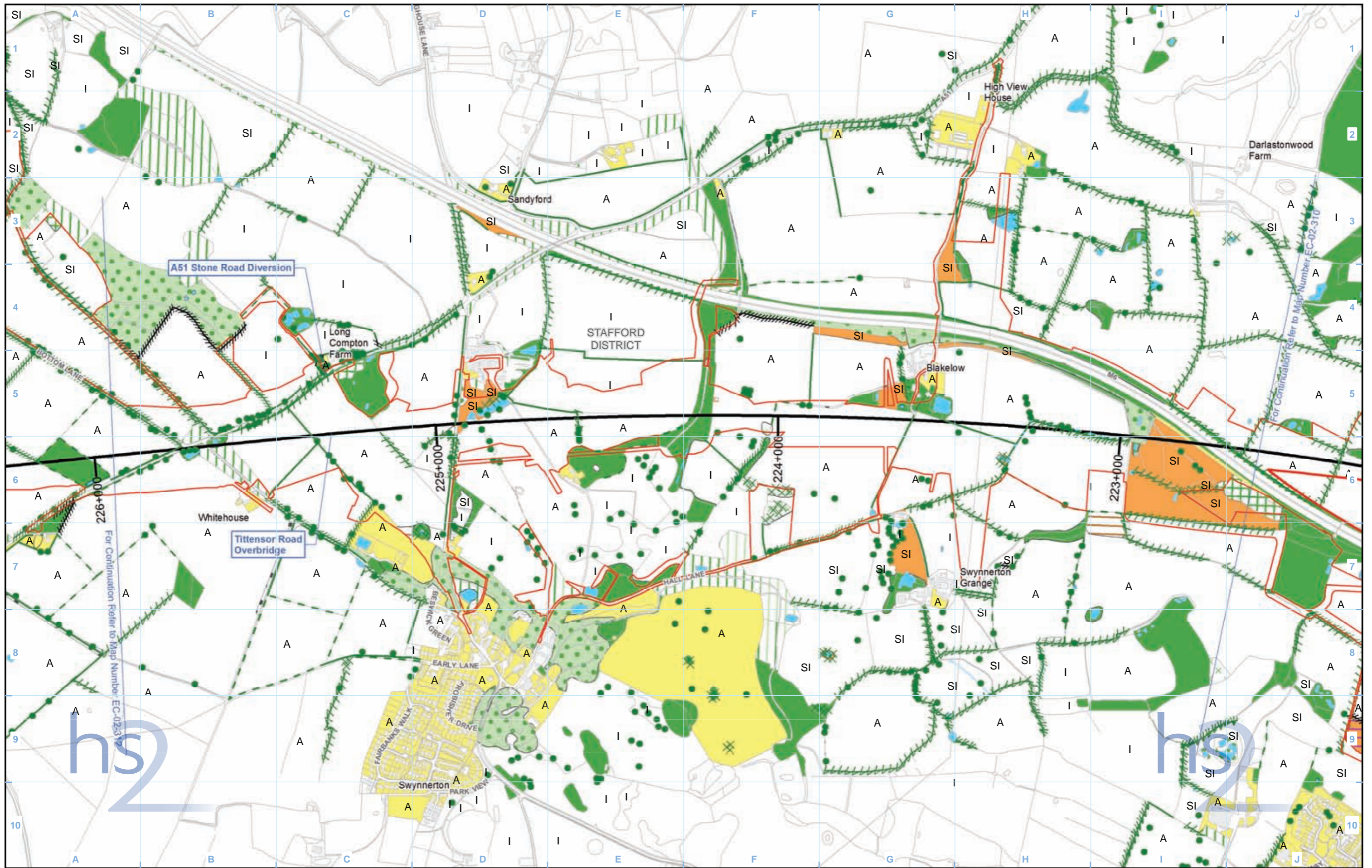
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Doc Number: C861-ARP-EV-MAP-000-072310-P03 Date: 15/06/17



**Legend**  
 For full legend please refer to EC-02 - Legend page

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

Map Number	EC-02-311
Map Name	Phase 1 Habitat (1:10,000)
Community Area 3: Stone and Swynnerton	




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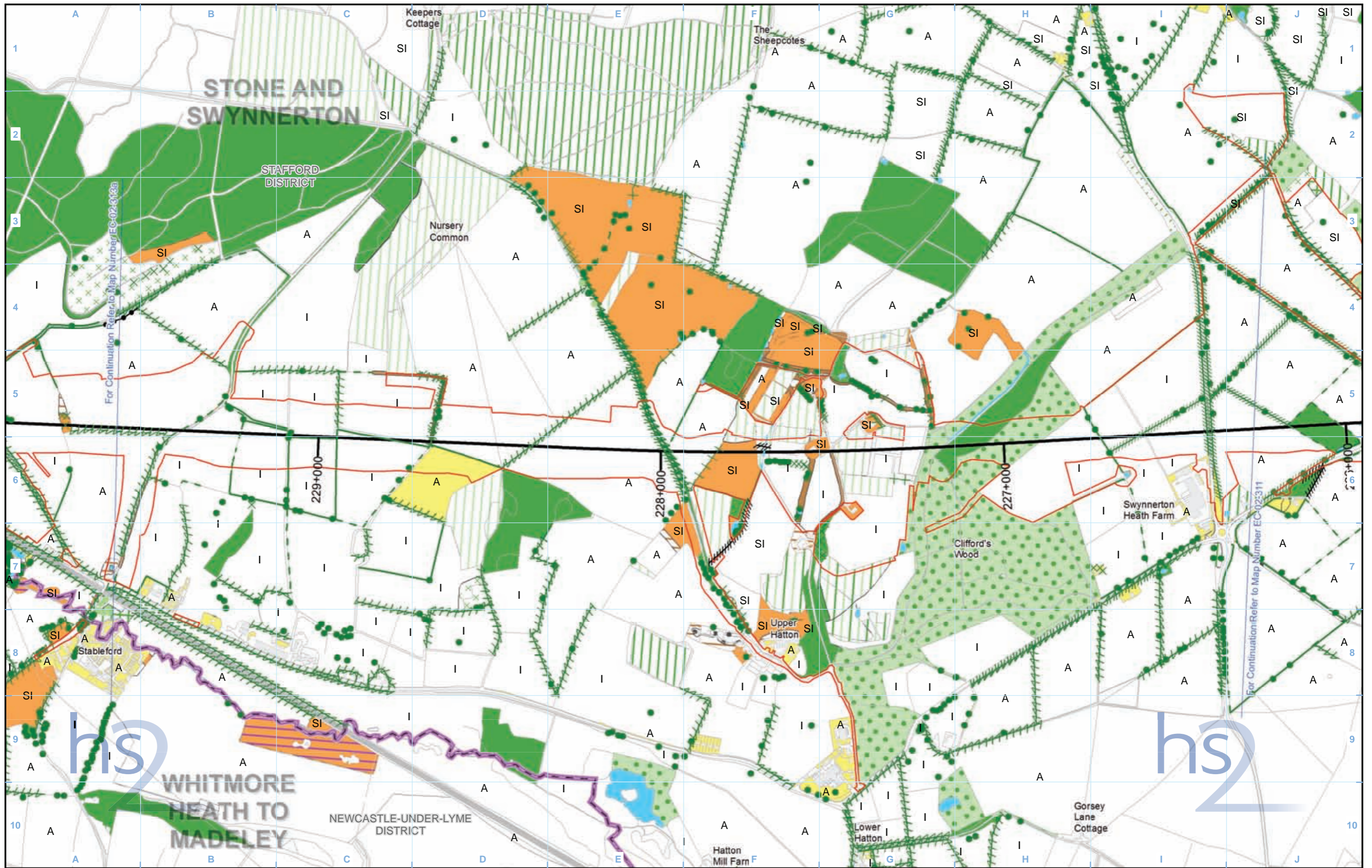
Scale at A3: 1:10,000



Metres



Date: 15/06/17



**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number: EC-02-312

Map Name: Phase 1 Habitat (1:10,000)

Community Area 3: Stone and Swynnerton

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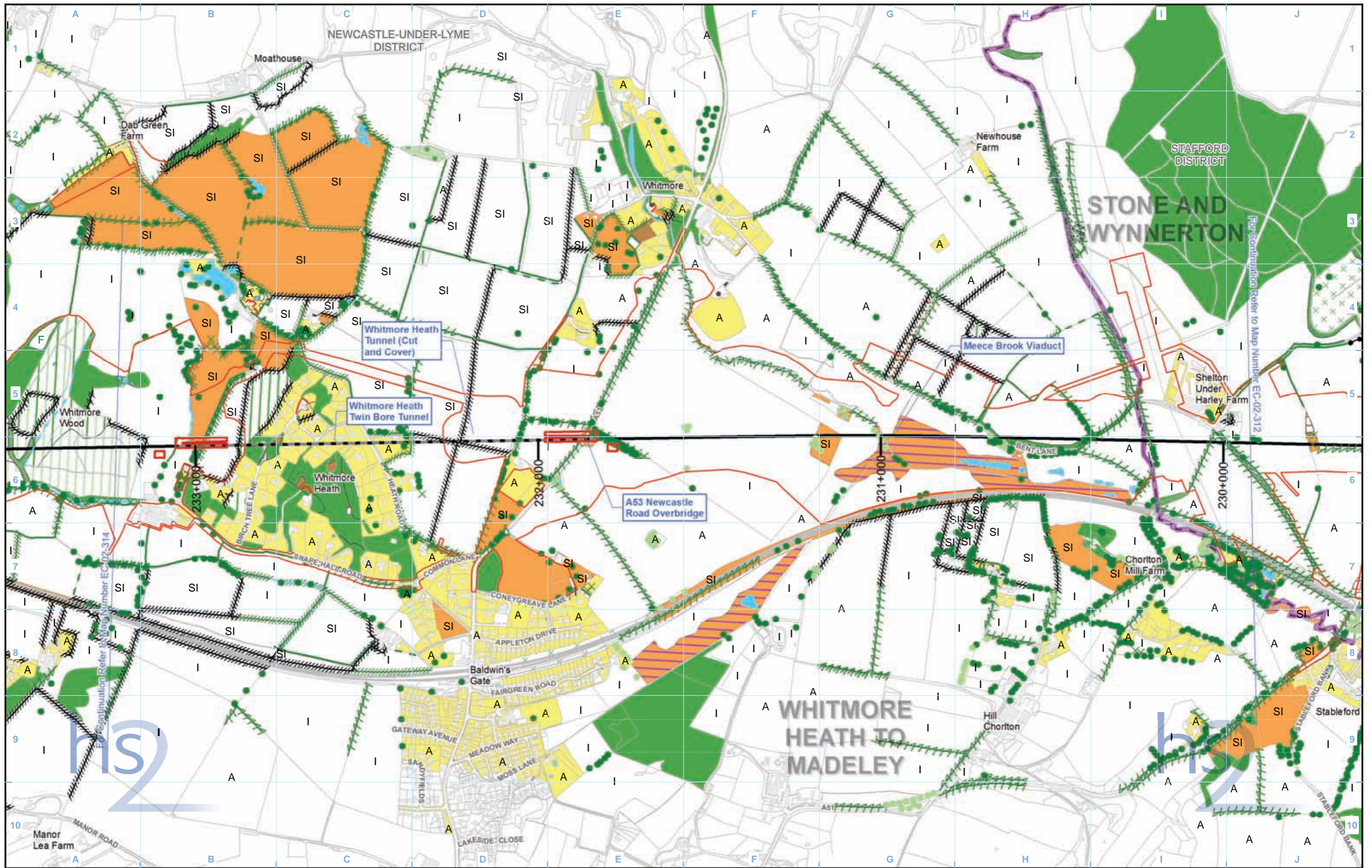
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Doc Number: C861-ARP-EV-MAP-000-072312-P03

Date: 15/06/17



**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number: EC-02-313a

Map Name: Phase 1 Habitat (1:10,000)

Community Area 3: Stone and Swynnerton

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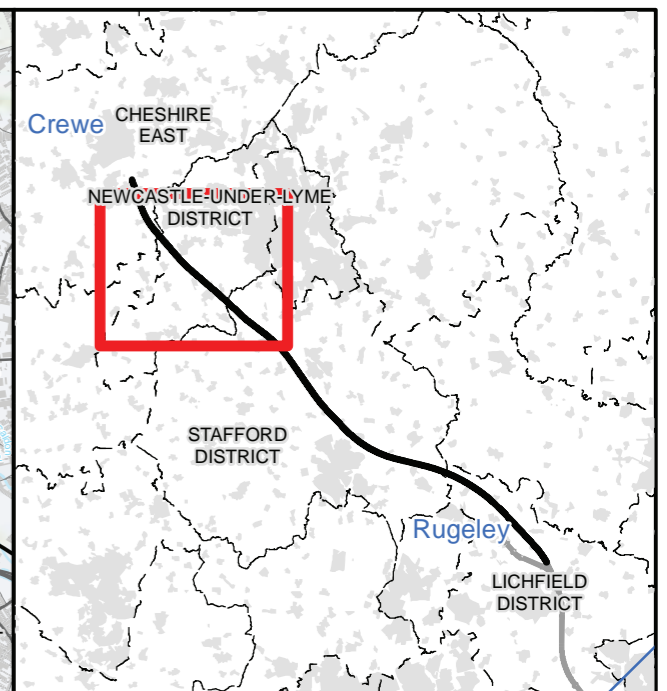
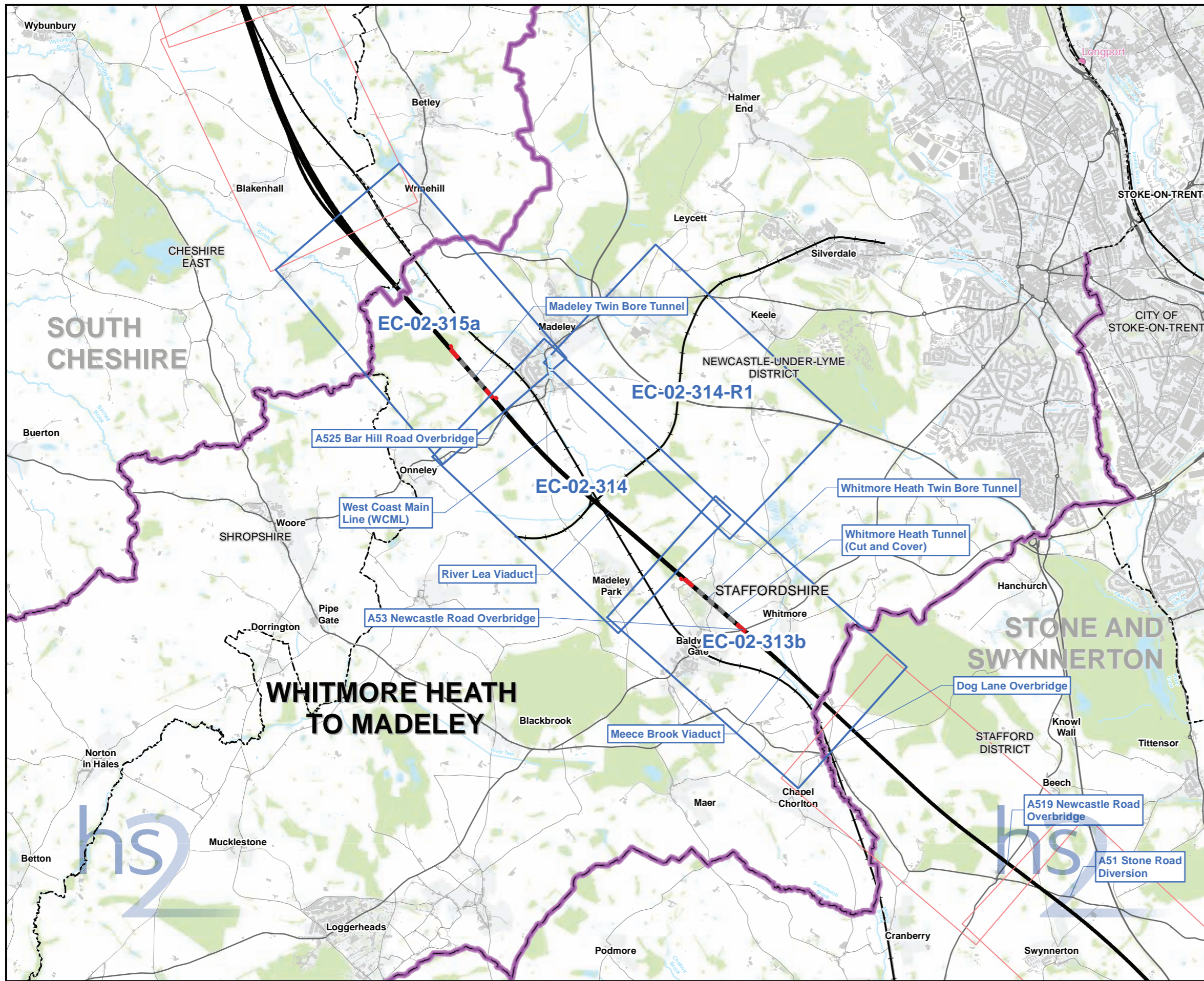
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Doc Number: C861-ARP-EV-MAP-000-072313-P03

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**Map Series Information:**

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- Main Map Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Community area boundary
  - Existing railway station
  - County boundary
  - District/Borough boundary
  - Map sheets included in this community area
  - Map sheets not included in this community area

Map Number	EC-02-INDEX-CA4
Map Name	Index Map of: Phase 1 Habitat (1:10,000) Community Area 4: Whitmore Heath to Madeley

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Doc Number: C861-ARP-EV-MAP-000-072004-P03






















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

















## Phase 1 Habitat survey legend

### Habitat Areas

	Broadleaved woodland - semi-natural		Poor semi-improved grassland
	Broadleaved woodland - plantation		Bracken - continuous
	Coniferous woodland - semi-natural		Bracken - scattered
	Coniferous woodland - plantation		Upland species-rich ledges
	Mixed woodland - semi-natural		Other tall herb and fern - ruderal
	Mixed woodland - plantation		Other tall herb and fern - non ruderal
	Scrub - dense/continuous		Dry dwarf shrub heath - acid
	Scrub - scattered		Lichen/bryophyte heath
	Broadleaved parkland/scattered trees		Dry heath/acid grassland
	Coniferous parkland/scattered trees		Wet modified bog
	Mixed parkland/scattered trees		Fen - valley mire
	Broadleaved woodland - recently felled		Swamp
	Mixed woodland - recently felled		Marginal and inundation - inundation vegetation
	Acid grassland - unimproved		Standing water
	Acid grassland - semi-improved		Standing water - eutrophic
	Neutral grassland - unimproved		Standing water - mesotrophic
	Neutral grassland - semi-improved		Running water
	Calcareous grassland - unimproved		Limestone pavement
	Calcareous grassland - semi-improved		Other exposure - basic
	Improved grassland		Cave
	Marsh/marshy grassland		Quarry

	Spoil
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

### Linear Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

### Point Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Bracken - scattered

Map Name Legend

Map Name Phase 1 Habitat Survey

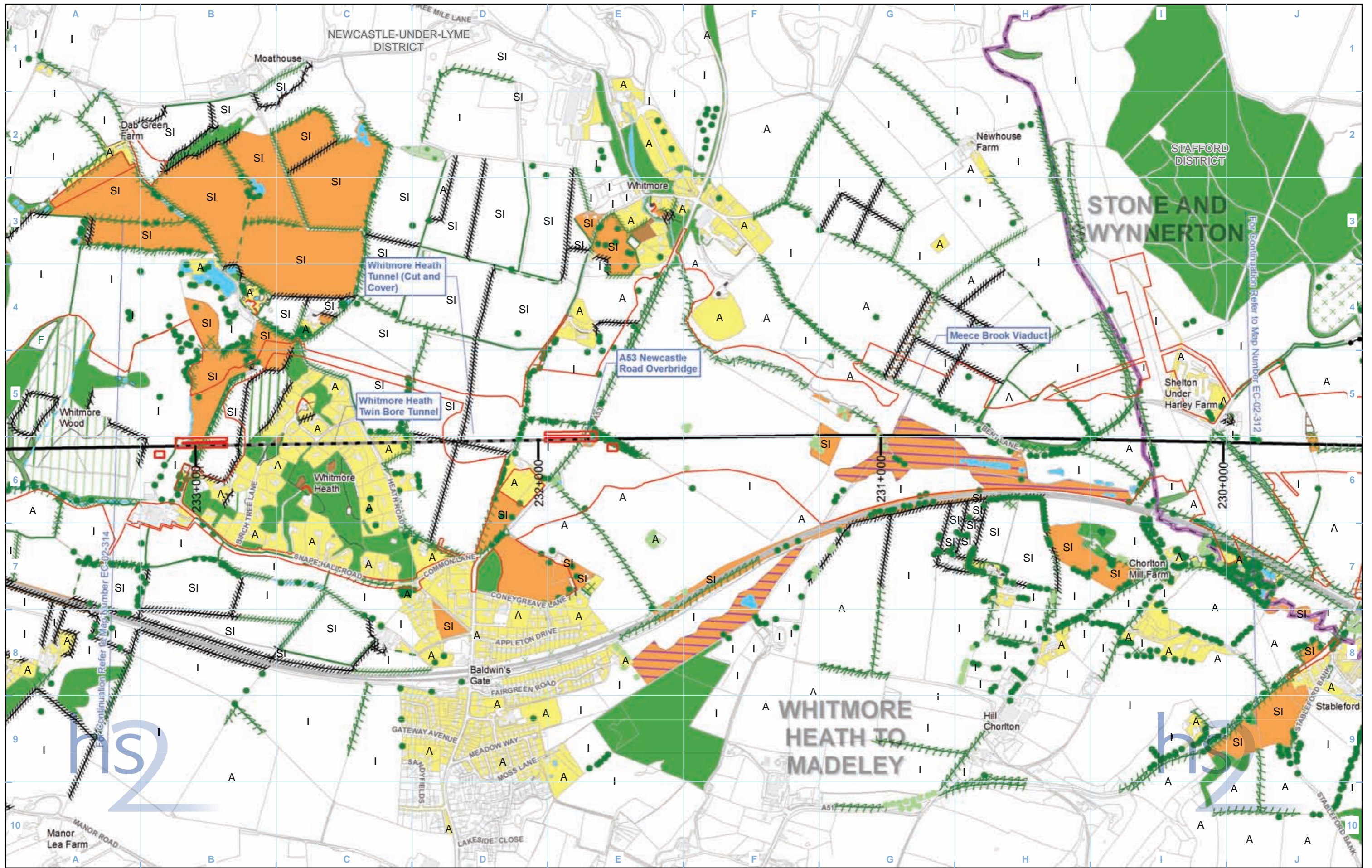


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**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number: EC-02-313b

Map Name: Phase 1 Habitat (1:10,000)

Community Area 4: Whitmore Heath to Madeley

**hs2**

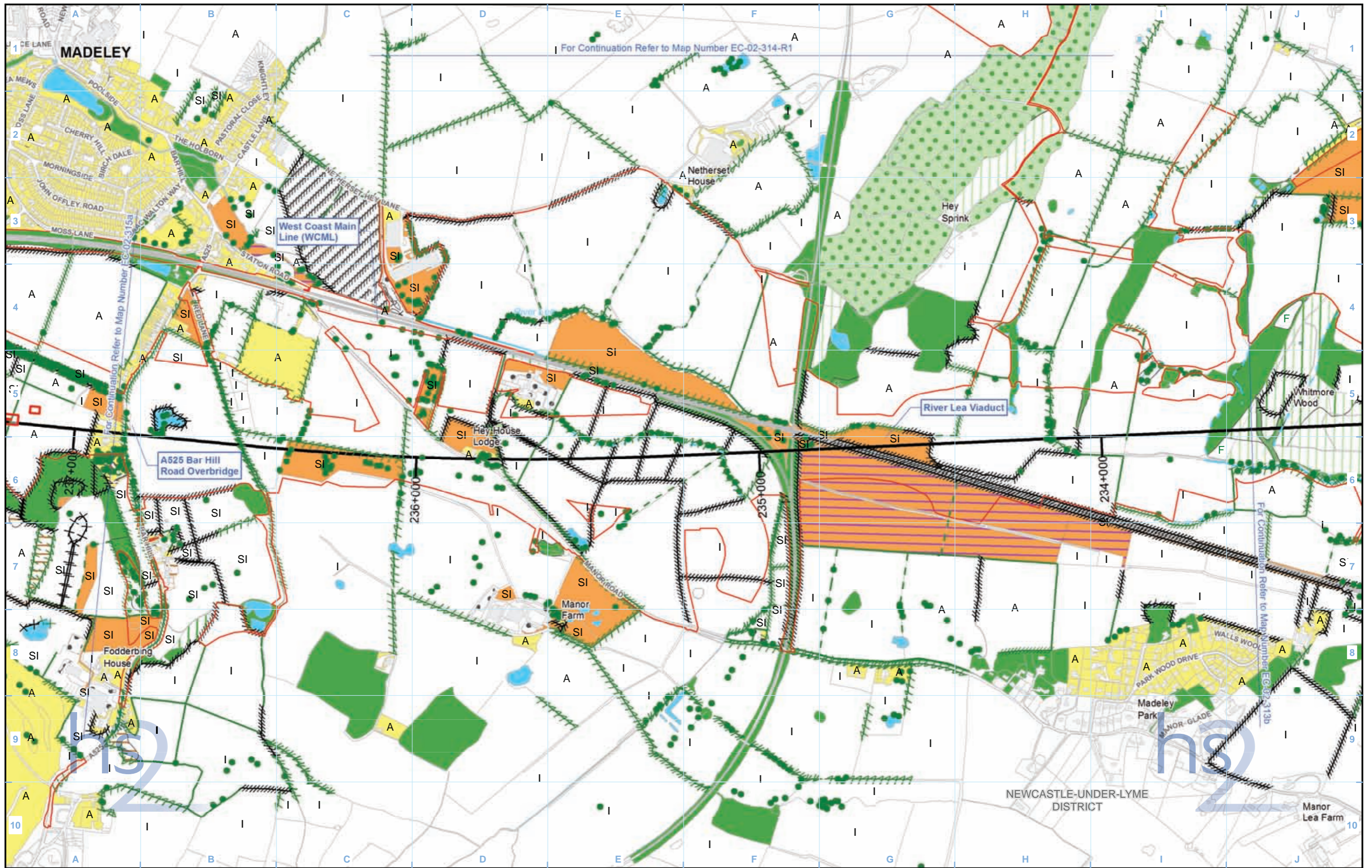
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**Legend**  
 - Route in bored tunnel  
 - Route on surface  
 - Depot, station, headhouse or portal building  
 - Land potentially required during construction  
 - Community area boundary  
 - County boundary  
 - District/Borough boundary

For full legend please refer to EC-02 - Legend page

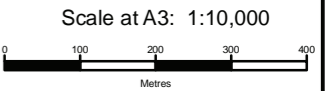
Map Number: EC-02-314

Map Name: Phase 1 Habitat (1:10,000)

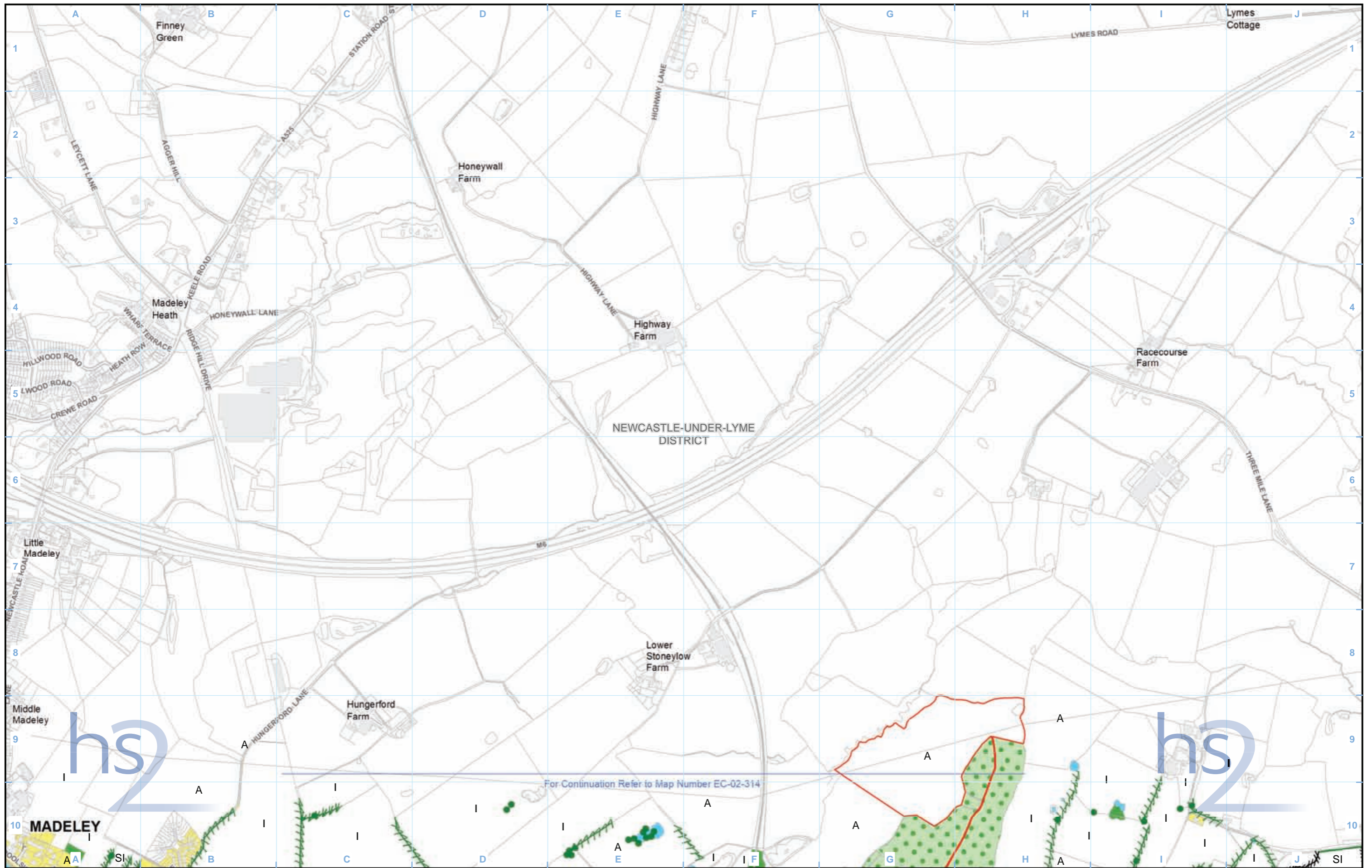
Community Area 4: Whitmore Heath to Madeley

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Doc Number: C861-ARP-EV-MAP-000-072314-P03 Date: 15/06/17



**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number EC-02-314-R1

Map Name Phase 1 Habitat (1:10,000)

Community Area 4: Whitmore Heath to Madeley

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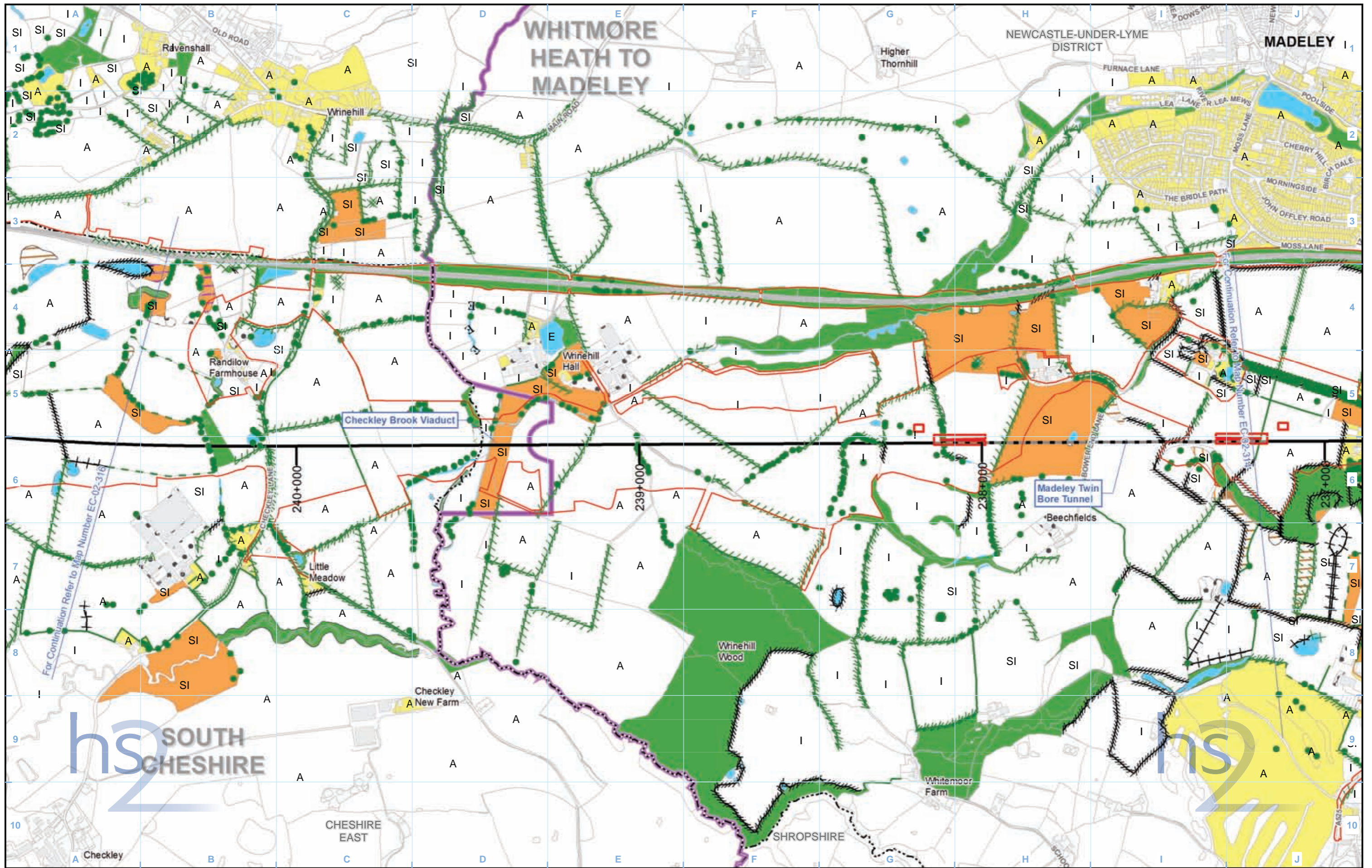
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Date: 15/06/17



**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number	EC-02-315a
Map Name	Phase 1 Habitat (1:10,000)
Community Area 4: Whitmore Heath to Madeley	

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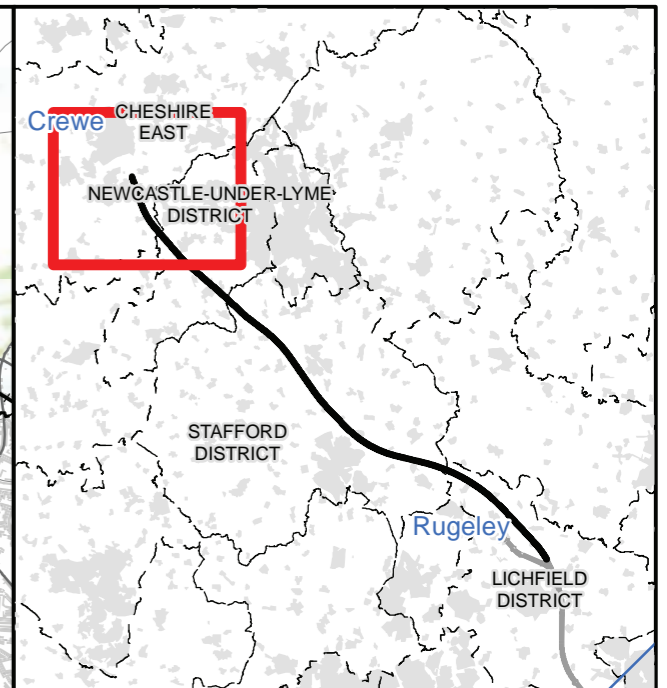
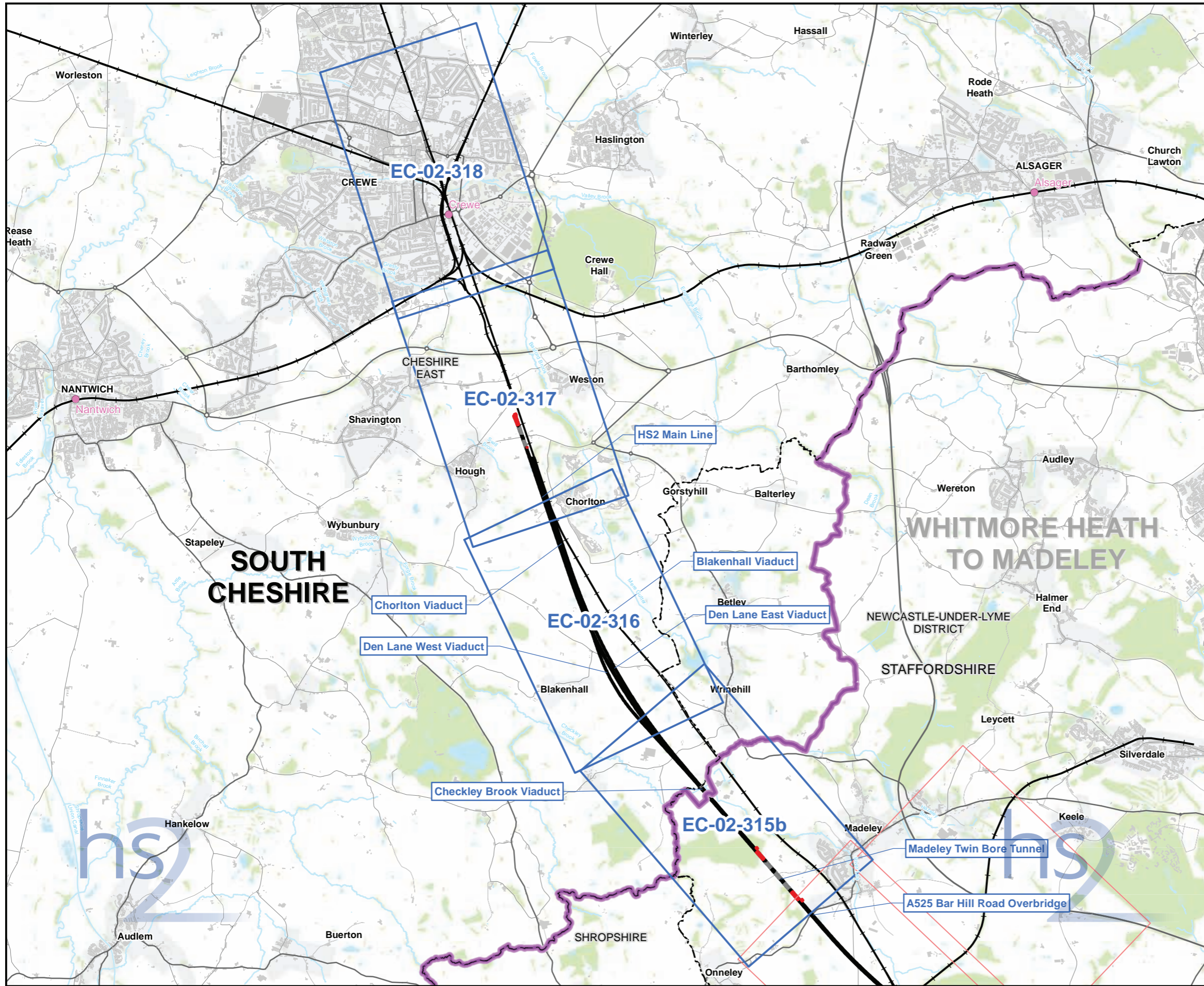
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**Doc Number:** C861-ARP-EV-MAP-000-072315-P03

Scale at A3: 1:10,000

Metres

**Date:** 15/06/17



**Map Series Information:**

This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey or the area mapped is between 250-500m from the CCB, the information is based on available desk study and interpretation of aerial photography.

**Main Map Legend**

Route in tunnel	Map sheets included in this community area
Route on surface	Map sheets not included in this community area
Depot, station, headhouse or portal building	Existing railway station
Community area boundary	County boundary
District/Borough boundary	

Map Number	EC-02-INDEX-CA5
Map Name	Index Map of: Phase 1 Habitat (1:10,000) Community Area 5: South Cheshire

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Scale at A3: 1:60,000






















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Doc Number: C861-ARP-EV-MAP-000-072005-P03 **Date: 14/06/17**



















## Phase 1 Habitat survey legend

### Habitat Areas

	Broadleaved woodland - semi-natural		Poor semi-improved grassland
	Broadleaved woodland - plantation		Bracken - continuous
	Coniferous woodland - semi-natural		Bracken - scattered
	Coniferous woodland - plantation		Upland species-rich ledges
	Mixed woodland - semi-natural		Other tall herb and fern - ruderal
	Mixed woodland - plantation		Other tall herb and fern - non ruderal
	Scrub - dense/continuous		Dry dwarf shrub heath - acid
	Scrub - scattered		Lichen/bryophyte heath
	Broadleaved parkland/scattered trees		Dry heath/acid grassland
	Coniferous parkland/scattered trees		Wet modified bog
	Mixed parkland/scattered trees		Fen - valley mire
	Broadleaved woodland - recently felled		Swamp
	Mixed woodland - recently felled		Marginal and inundation - inundation vegetation
	Acid grassland - unimproved		Standing water
	Acid grassland - semi-improved		Standing water - eutrophic
	Neutral grassland - unimproved		Standing water - mesotrophic
	Neutral grassland - semi-improved		Running water
	Calcareous grassland - unimproved		Limestone pavement
	Calcareous grassland - semi-improved		Other exposure - basic
	Improved grassland		Cave
	Marsh/marshy grassland		Quarry

	Spoil
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

### Linear Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

### Point Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Bracken - scattered

Map Name Legend

Map Name Phase 1 Habitat Survey

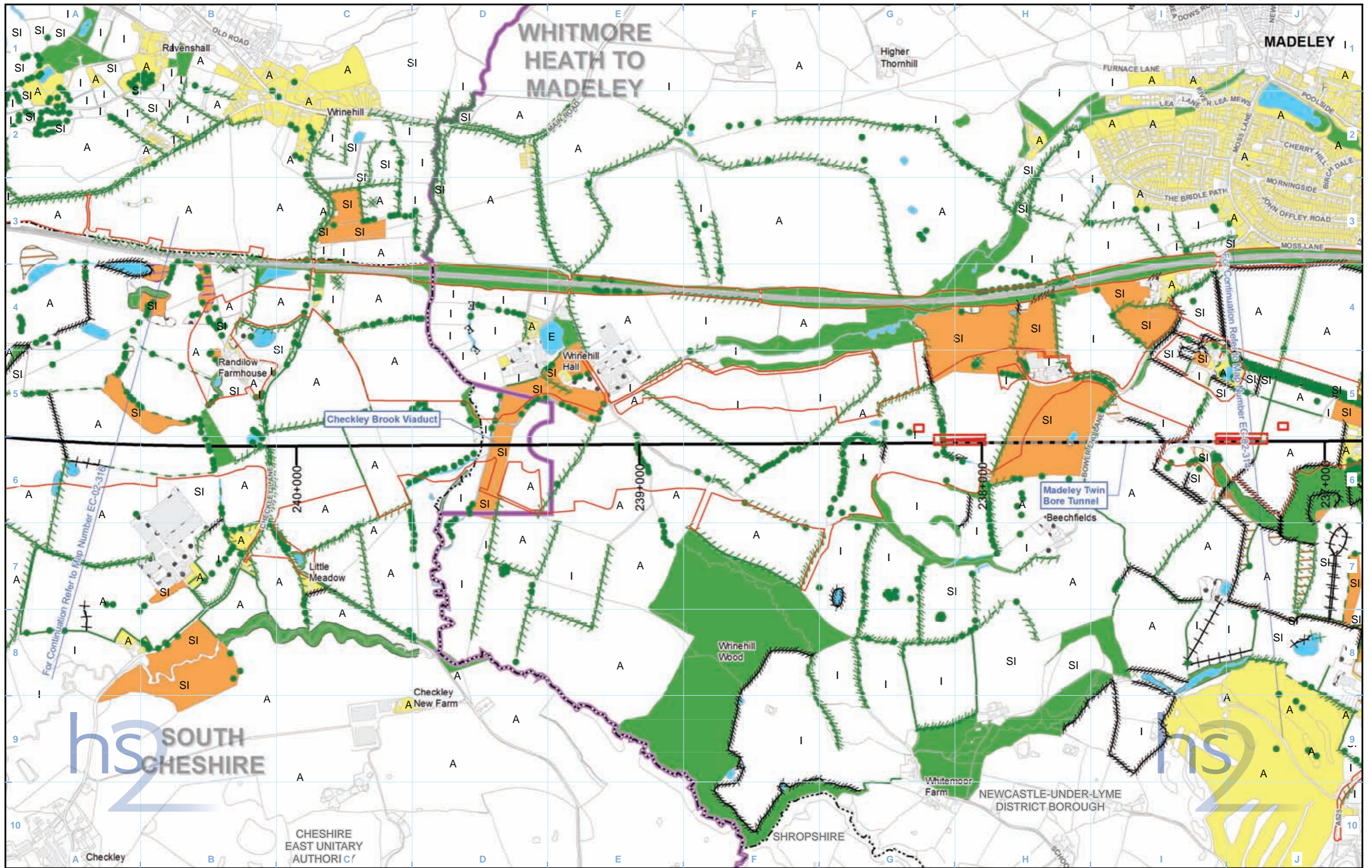


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**Legend**  
 - Route in bored tunnel  
 - Route on surface  
 - Depot, station, headhouse or portal building  
 - Land potentially required during construction  
 - Community area boundary  
 - County boundary  
 - District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number EC-02-315b

Map Name Phase 1 Habitat (1:10,000)

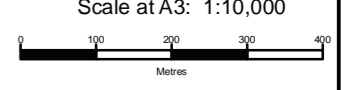
Community Area 5: South Cheshire



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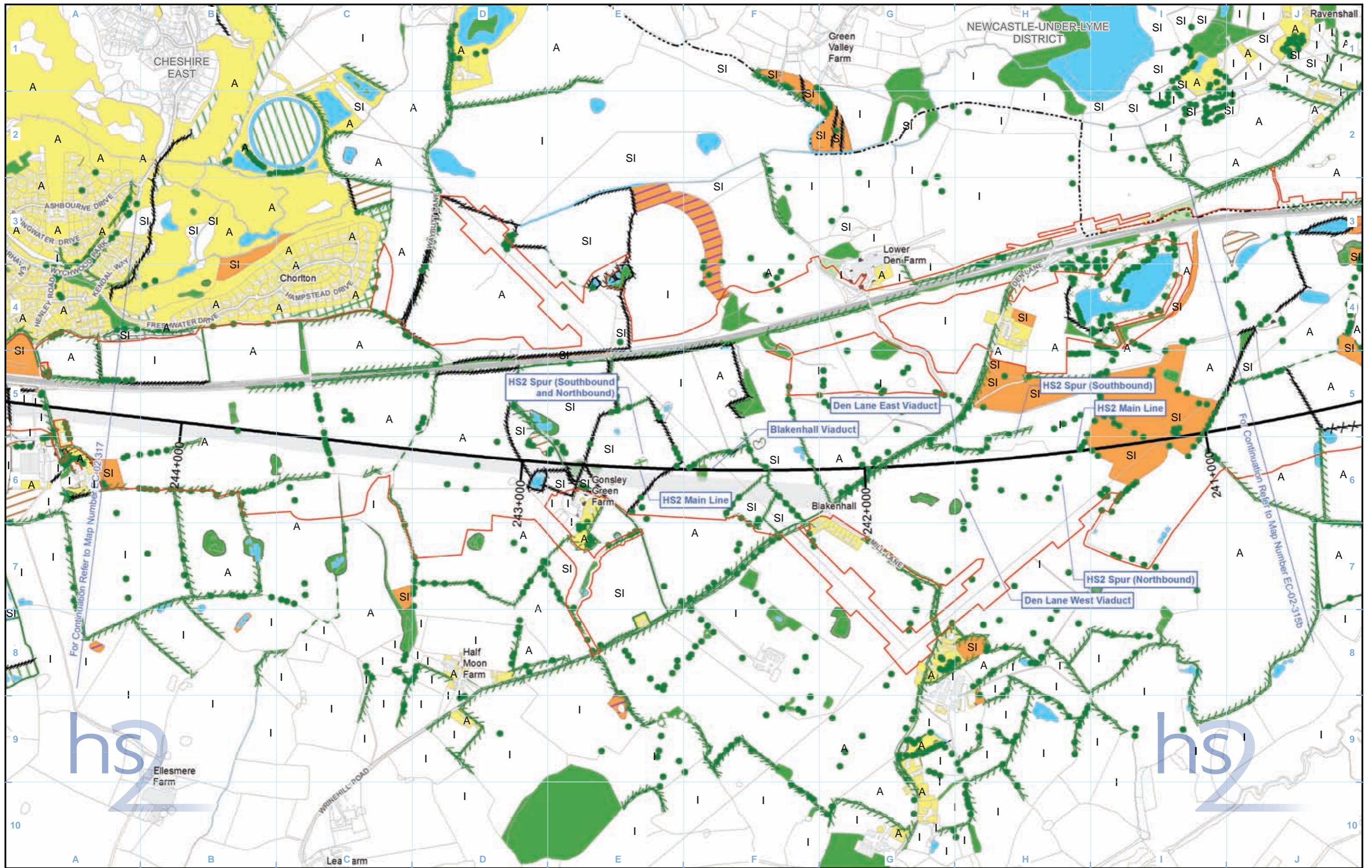


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Doc Number: C861-ARP-EV-MAP-000-072515-P04

Date: 19/06/17





**Legend**  
 - Route in bored tunnel  
 - Route on surface  
 - Depot, station, headhouse or portal building  
 - Land potentially required during construction  
 - Community area boundary  
 - County boundary  
 - District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number  
**EC-02-316**

Map Name  
**Phase 1 Habitat  
 (1:10,000)**

Community Area 5:  
 South Cheshire

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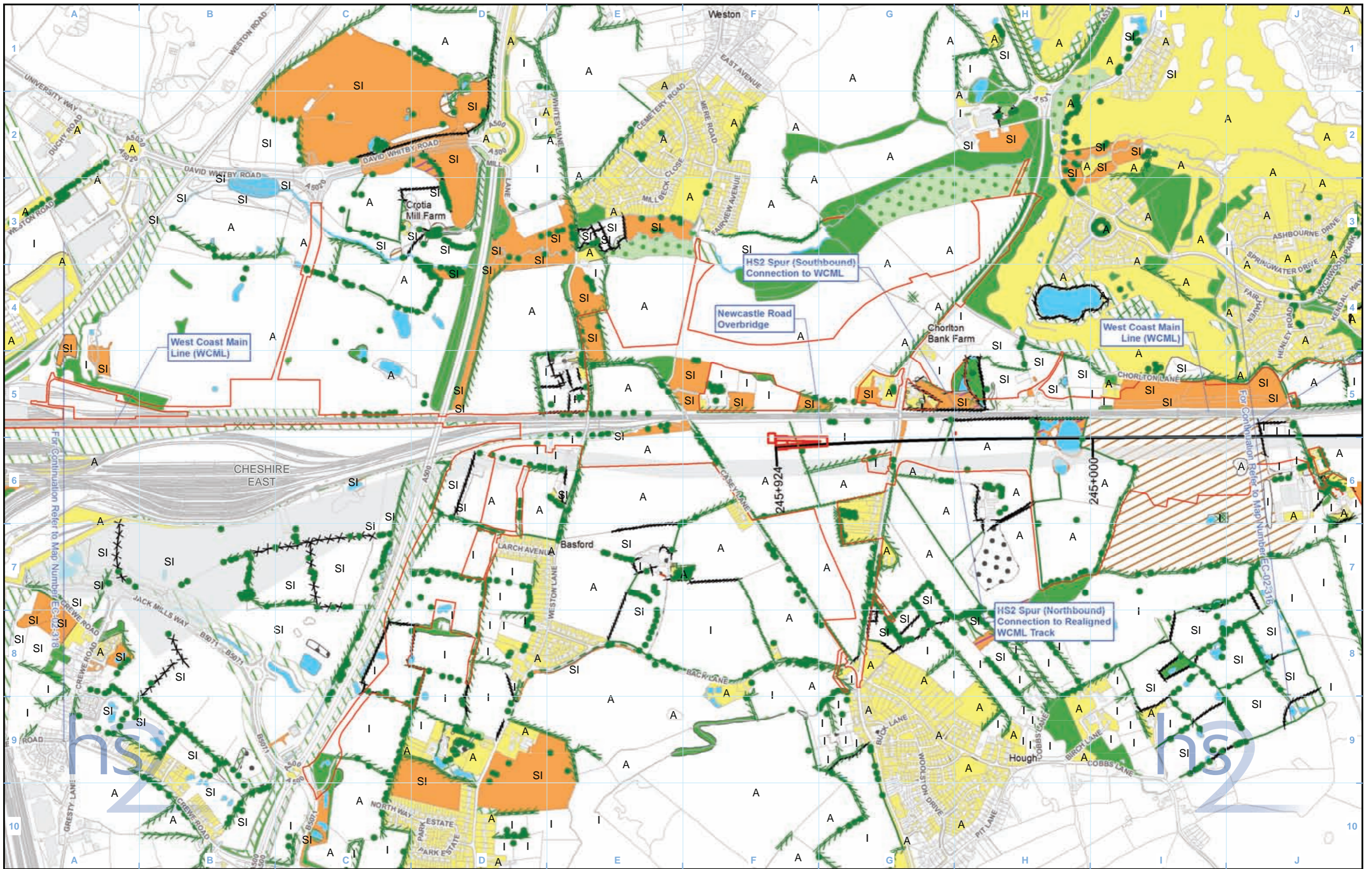
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Scale at A3: 1:10,000

0 100 200 300 400  
 Metres

Doc Number: C861-ARP-EV-MAP-000-072316-P03

Date: 15/06/17



**Legend**  
 - Route in bored tunnel  
 - Route on surface  
 - Depot, station, headhouse or portal building  
 - Land potentially required during construction  
 - Community area boundary  
 - County boundary  
 - District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number	EC-02-317
Map Name	Phase 1 Habitat (1:10,000)
Community Area 5: South Cheshire	

**hs2**

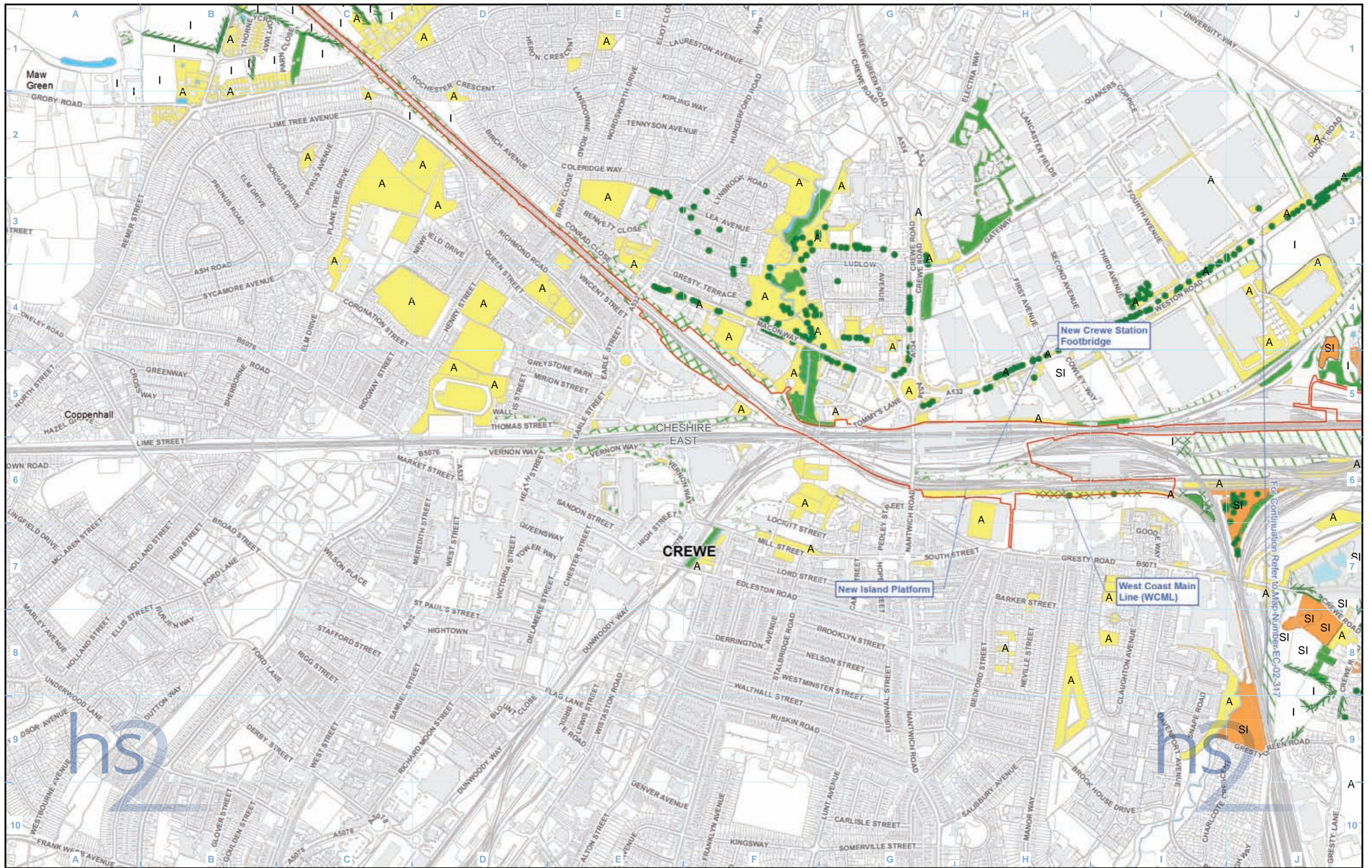
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 Metres

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**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number: EC-02-318

Map Name: Phase 1 Habitat (1:10,000)

Community Area 5: South Cheshire

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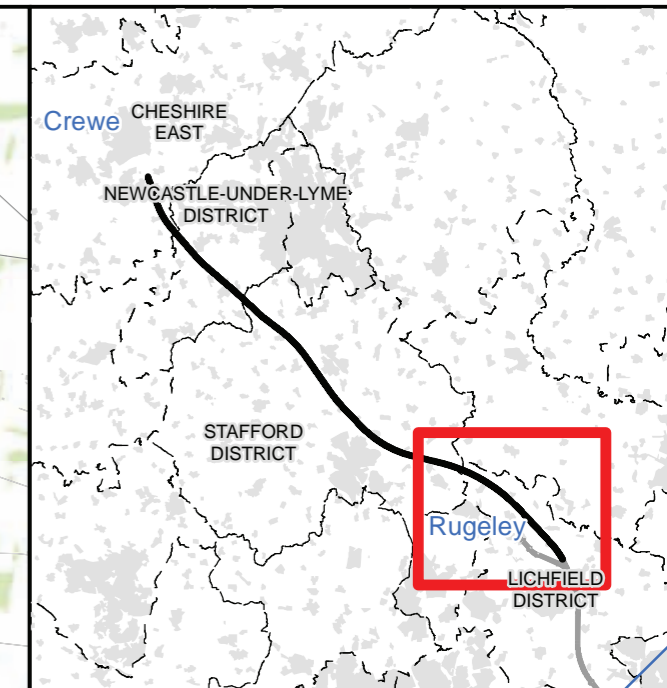
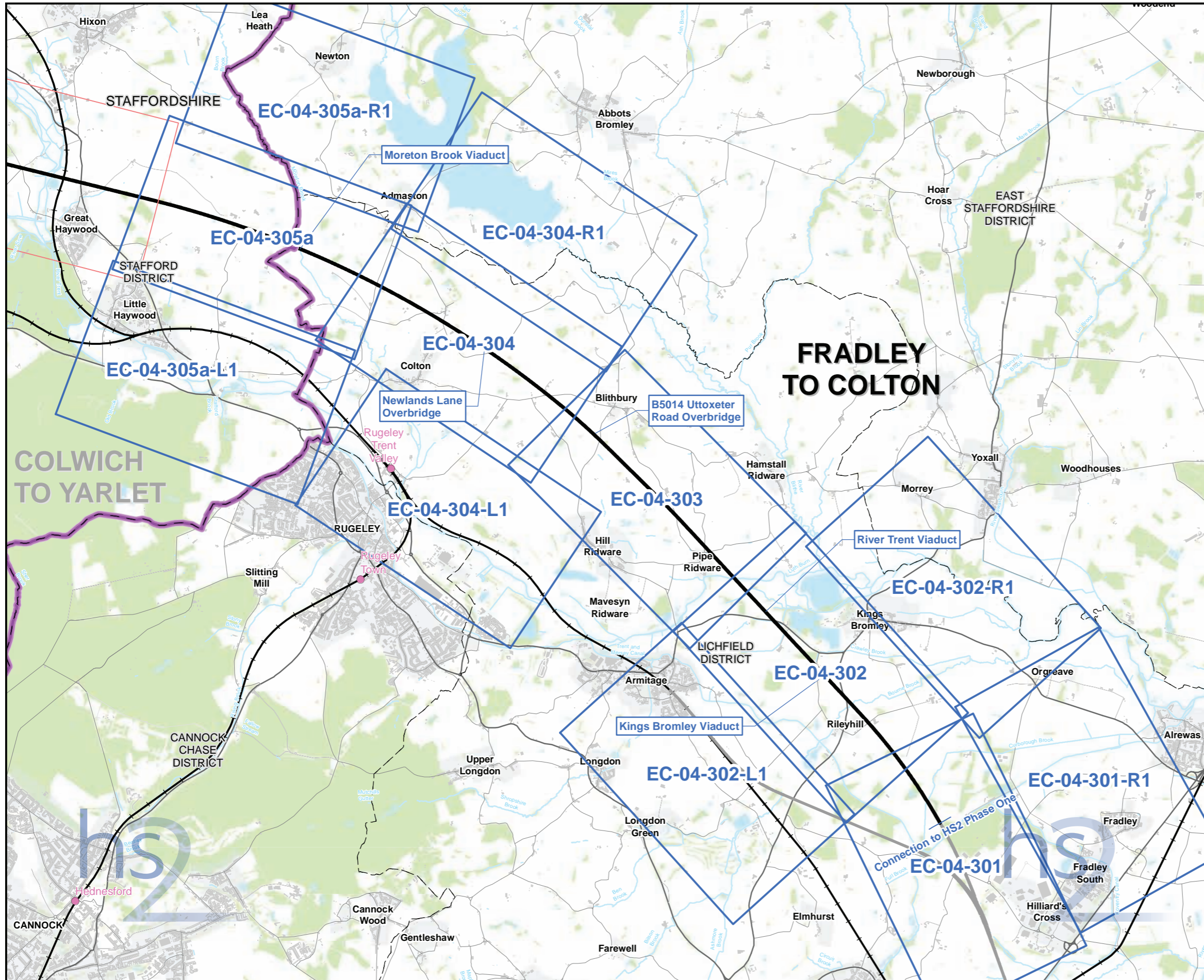
Doc Number: C861-ARP-EV-MAP-000-072318-P03

Date: 15/06/17

For Continuation Refer to Map Number: EC-02-317

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High Speed Two Phase 2a (West Midlands-Crewe)  
Background Information and Data  
**EC-04 - Amphibians**



**Map Series Information:**

This map series shows the results of amphibian surveys conducted to inform the Environmental Statement. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded

- Main Map Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Community area boundary
  - Existing railway station
  - County boundary
  - District/Borough boundary
  - Map sheets included in this community area
  - Map sheets not included in this community area

Map Number	EC-04-INDEX-CA1
Map Name	Index Map of: Amphibians
Community Area 1:	Fradley to Colton

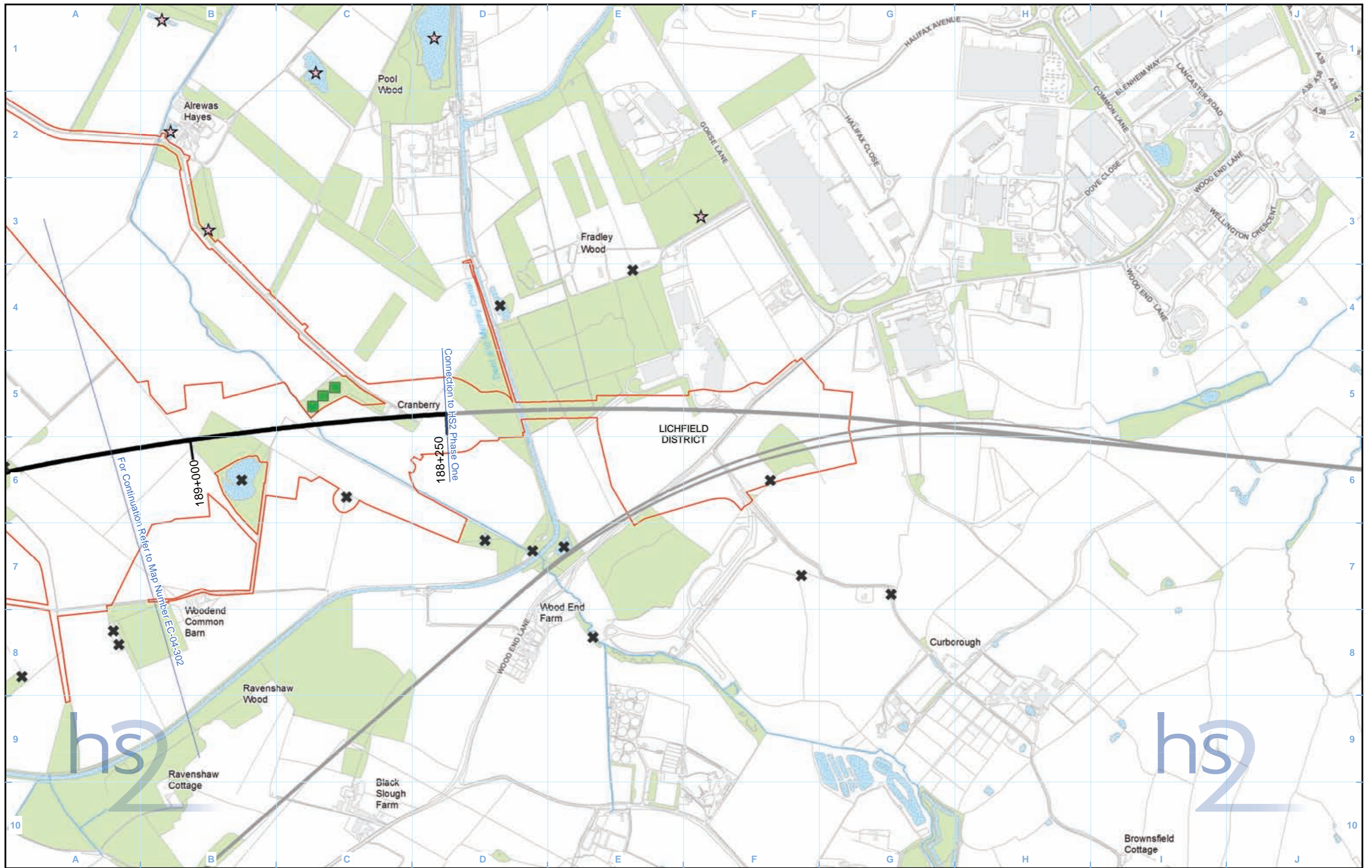
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Doc Number: C861-ARP-EV-MAP-000-074001-P03 **Date:** 14/06/17



Legend			
	Route in bored tunnel		eDNA survey complete - Great Crested Newts assumed absent
	Route on surface		Scoped in - no access permission
	Depot, station, headhouse or portal building		Scoped out - no survey required
	Land potentially required during construction		
	Community area boundary		
	County boundary		
	District/Borough boundary		
	Watercourse		
	Water body		
	Woodland (not verified by survey)		

Map Number	EC-04-301
Map Name	Amphibians
Community Area 1:	Fradley to Colton

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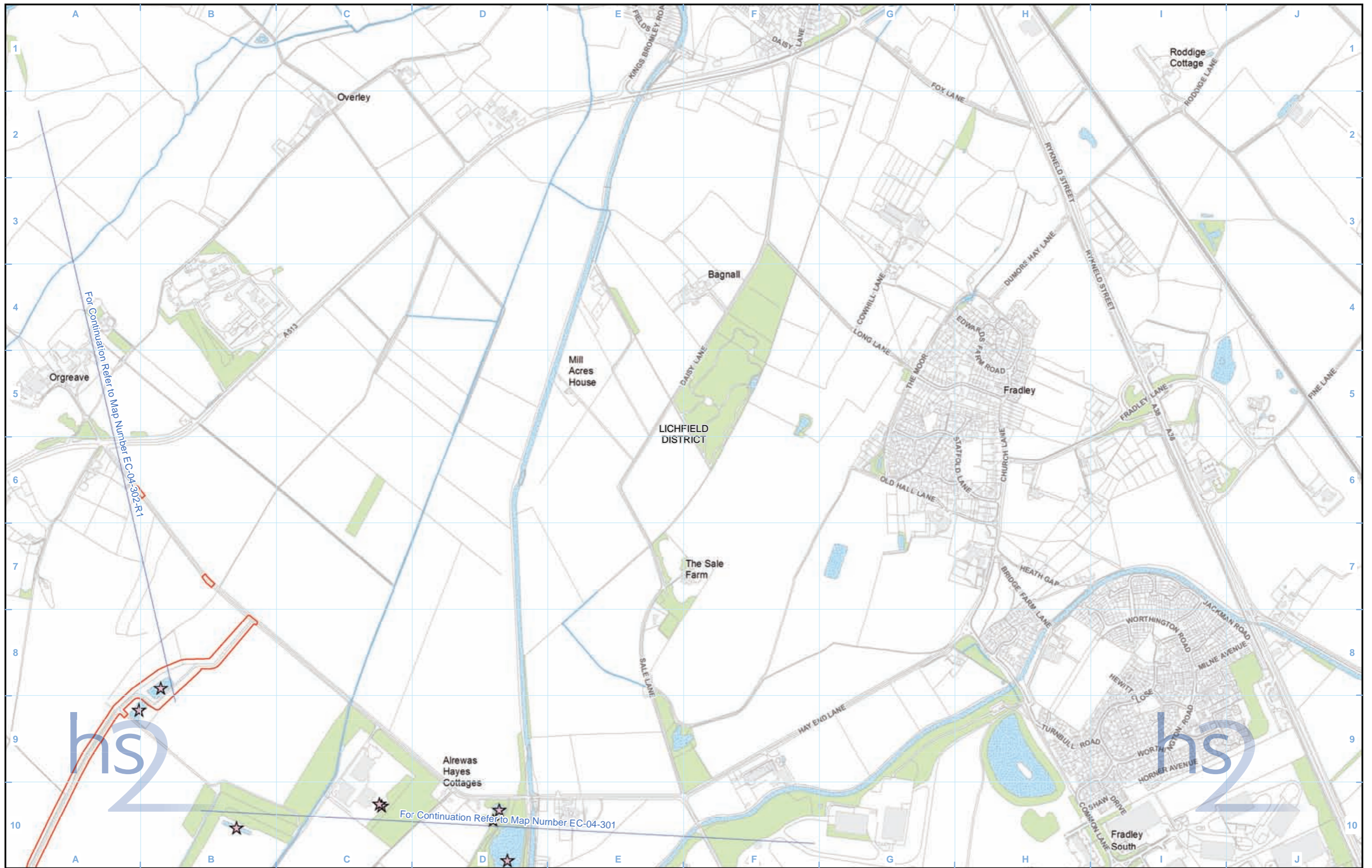
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**Legend**


Map Number	EC-04-301-R1
Map Name	Amphibians
Community Area 1:	Fradley to Colton

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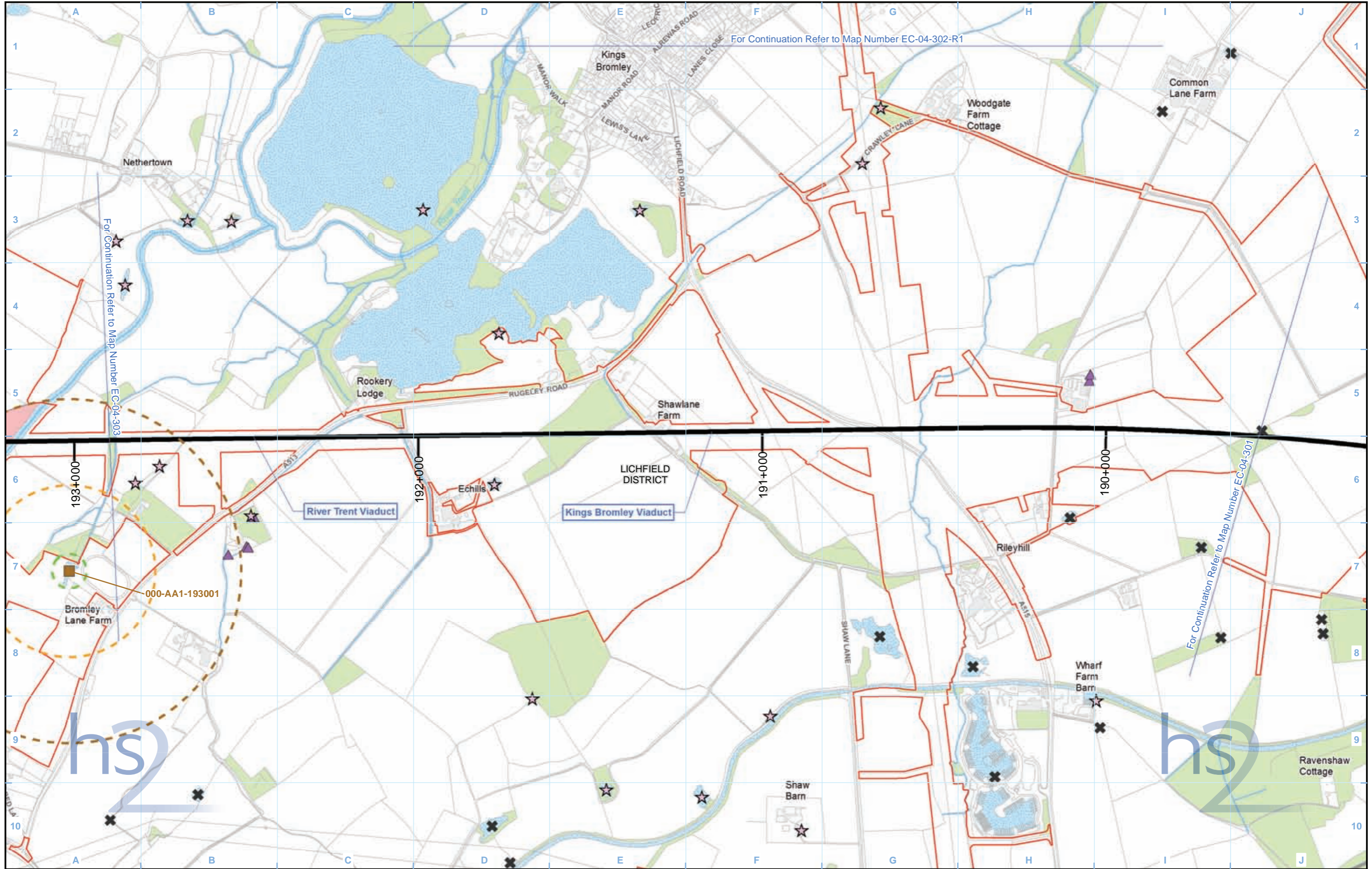
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Doc Number: C861-ARP-EV-MAP-000-074401-P03

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For Continuation Refer to Map Number EC-04-302-R1



Legend	
	Route in bored tunnel
	Route on surface
	District/Borough boundary
	Watercourse
	Water body
	Land potentially required during construction
	Community area boundary
	County boundary
	eDNA survey complete - Great Crested Newts present
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed
	Areas isolated by significant barriers to amphibian movement

Map Number	EC-04-302
Map Name	Amphibians
Community Area 1:	Fradley to Colton

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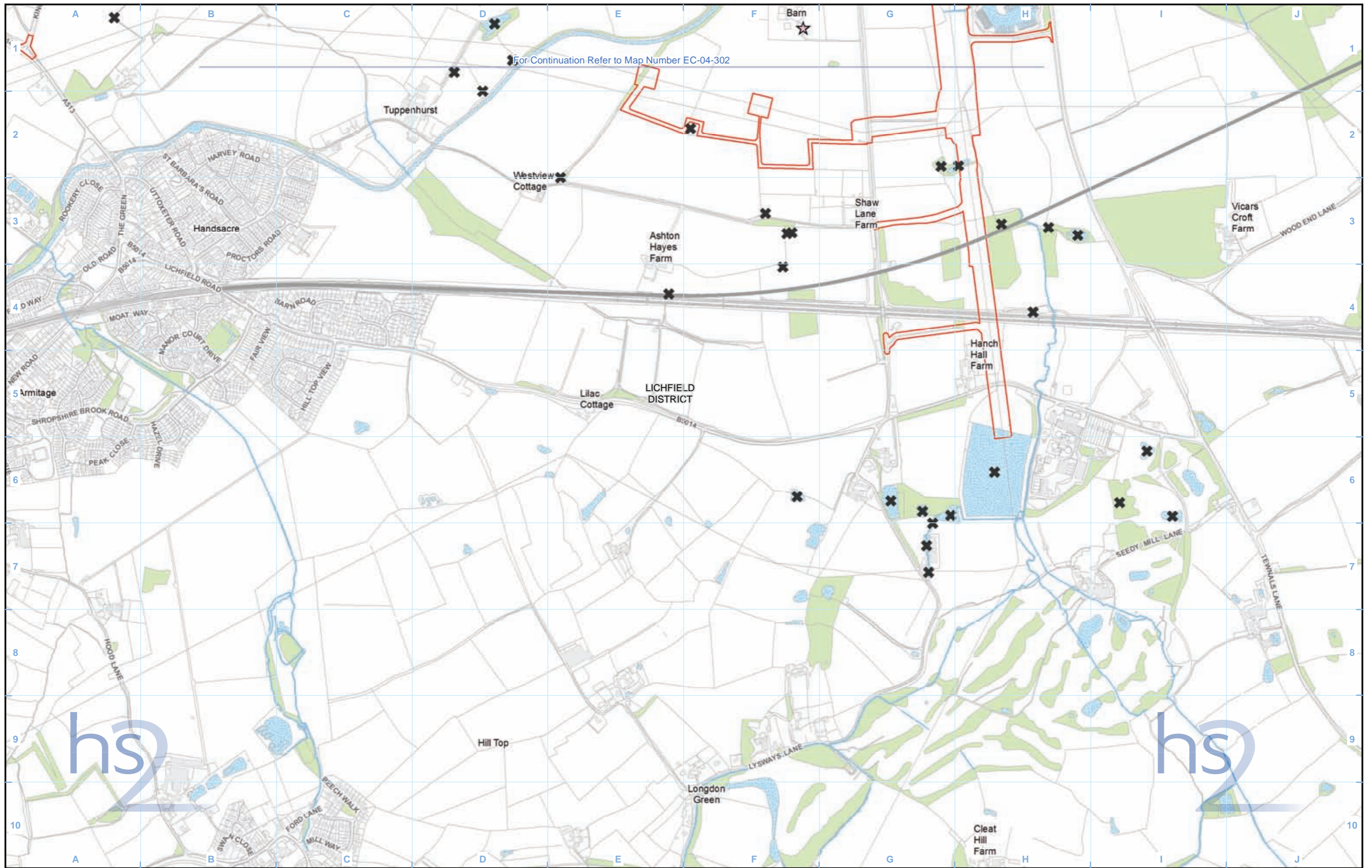
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Legend		

Map Number	EC-04-302-L1
Map Name	Amphibians
Community Area 1:	Fradley to Colton

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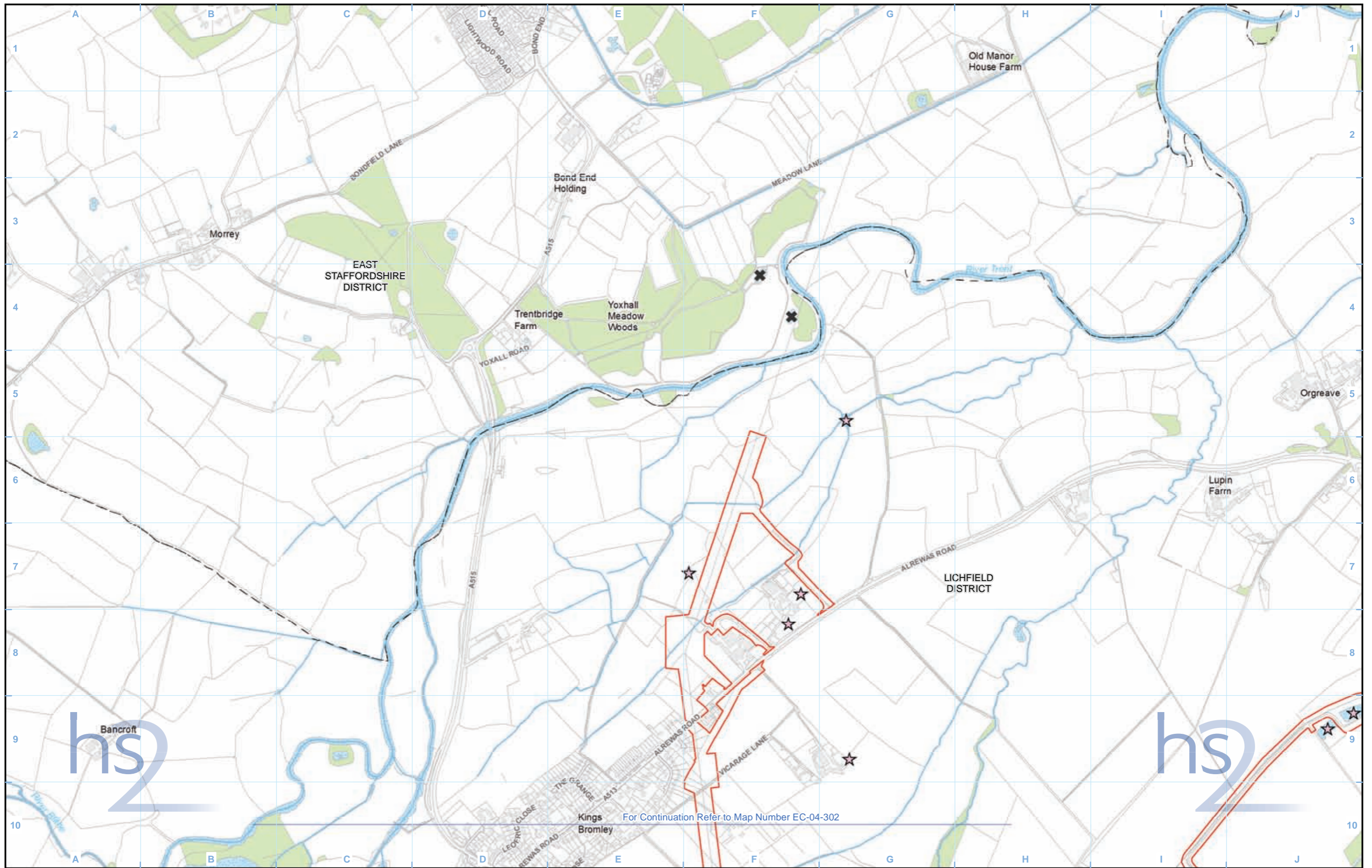
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Legend			
	Route in bored tunnel		District/Borough boundary
	Route on surface		Watercourse
	Depot, station, headhouse or portal building		Water body
	Land potentially required during construction		Woodland (not verified by survey)
	Community area boundary		Scoped in - no access permission
	County boundary		Scoped out - no survey required

For Continuation Refer to Map Number EC-04-302

Map Number	EC-04-302-R1
Map Name	Amphibians
Community Area 1:	Fradley to Colton

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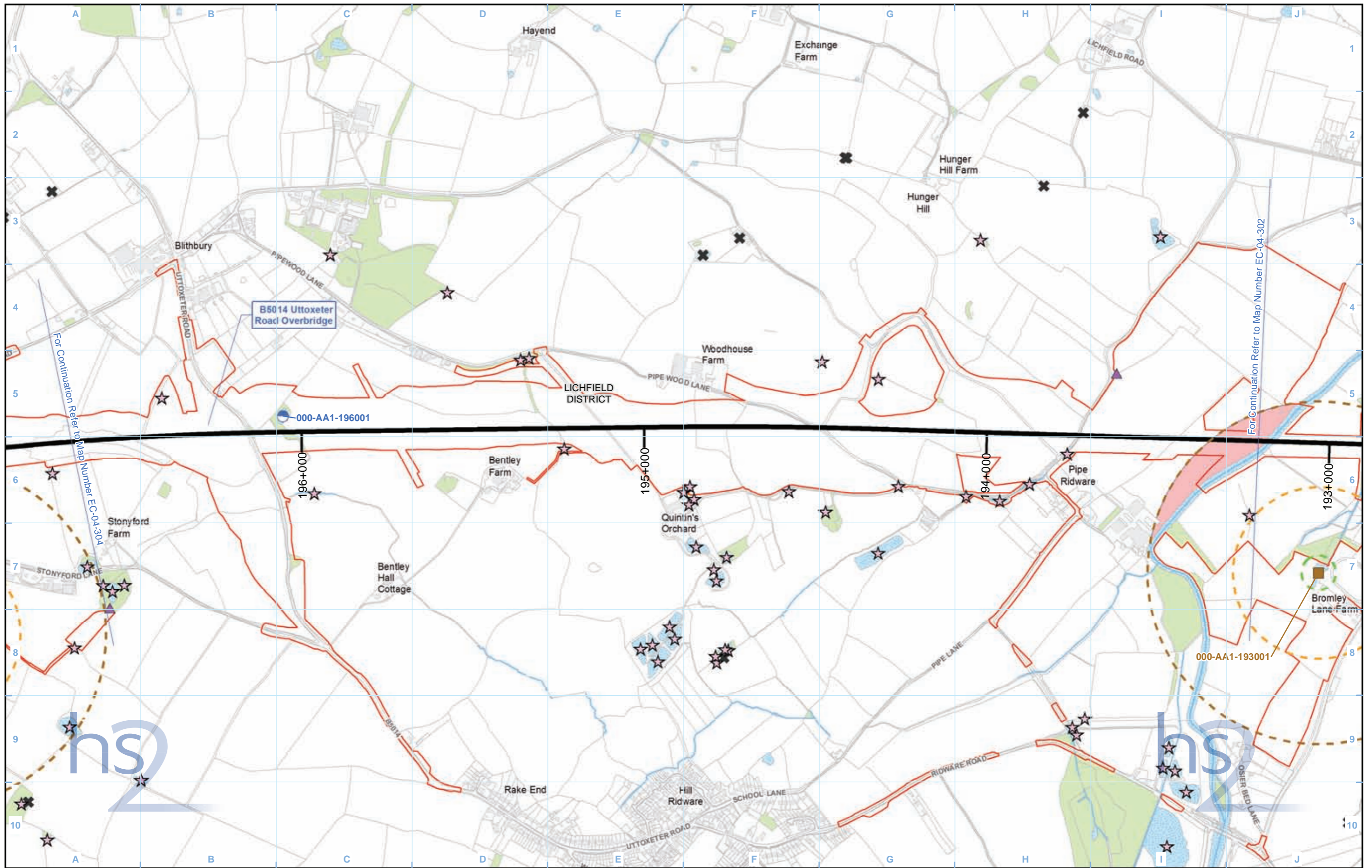
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Date: 14/06/17



Legend	
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - Great Crested Newts present
	Great Crested Newts confirmed present - no size class determined
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed
	Areas isolated by significant barriers to amphibian movement

Map Number	EC-04-303
Map Name	Amphibians
	Community Area 1: Fradley to Colton

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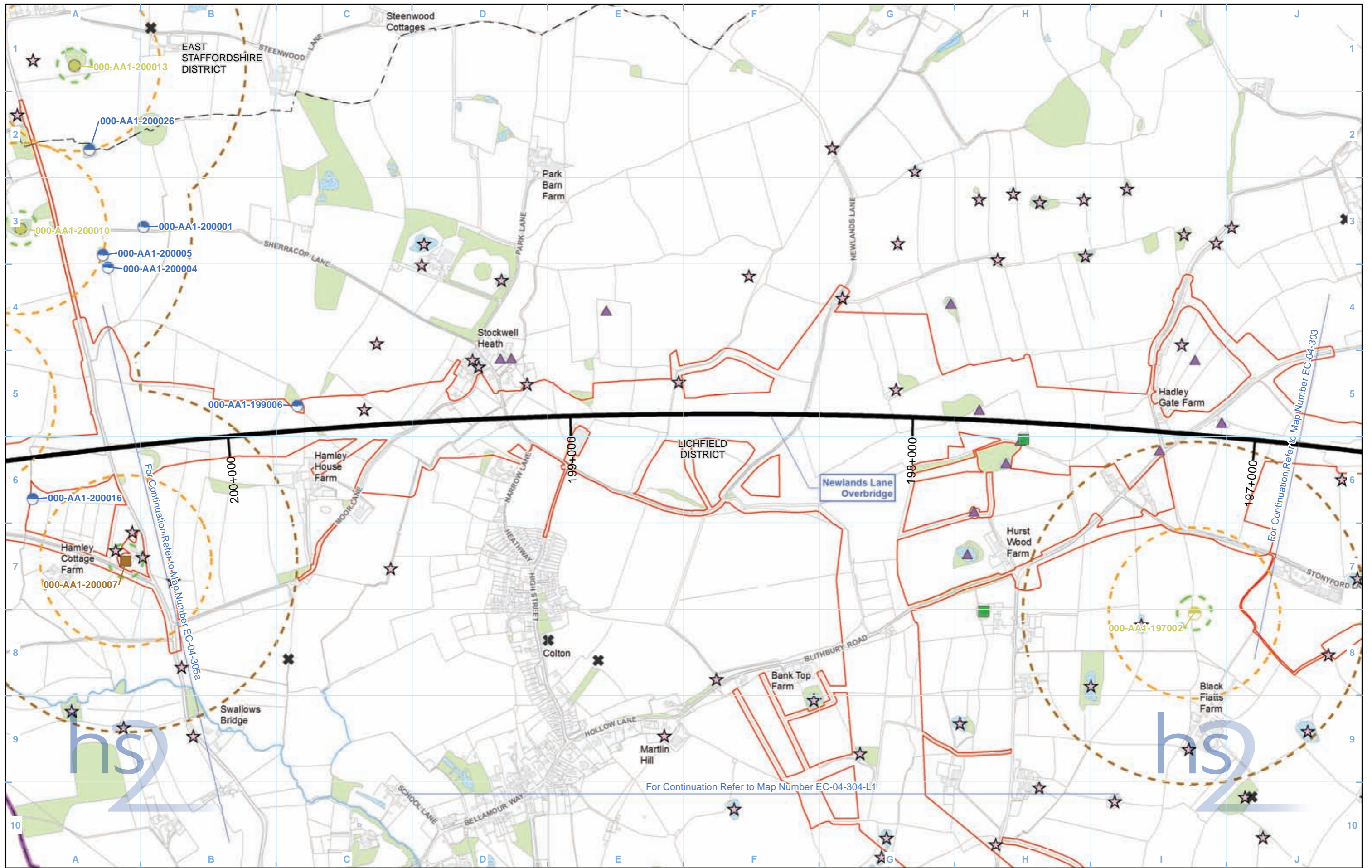
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Date: 14/06/17



Legend	
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)
	Great Crested Newts confirmed present - no size class determined
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-304
Map Name	Amphibians
	Community Area 1: Fradley to Colton

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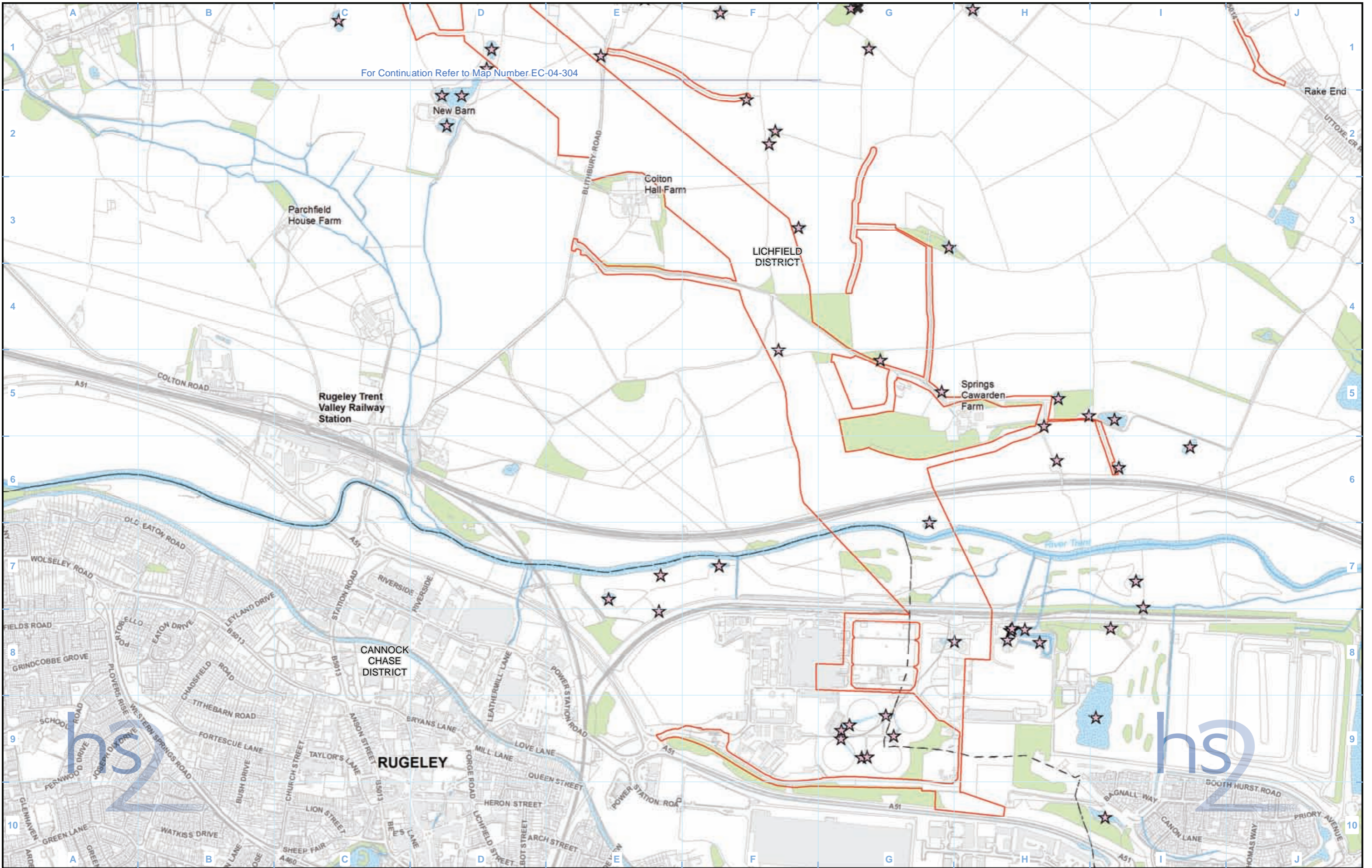
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Doc Number: C861-ARP-EV-MAP-000-074304-P03

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Metres

Date: 14/06/17



For Continuation Refer to Map Number EC-04-304

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	Scoped in - no access permission
	Scoped out - no survey required

Map Number	EC-04-304-L1
Map Name	Amphibians
Community Area 1:	Fradley to Colton

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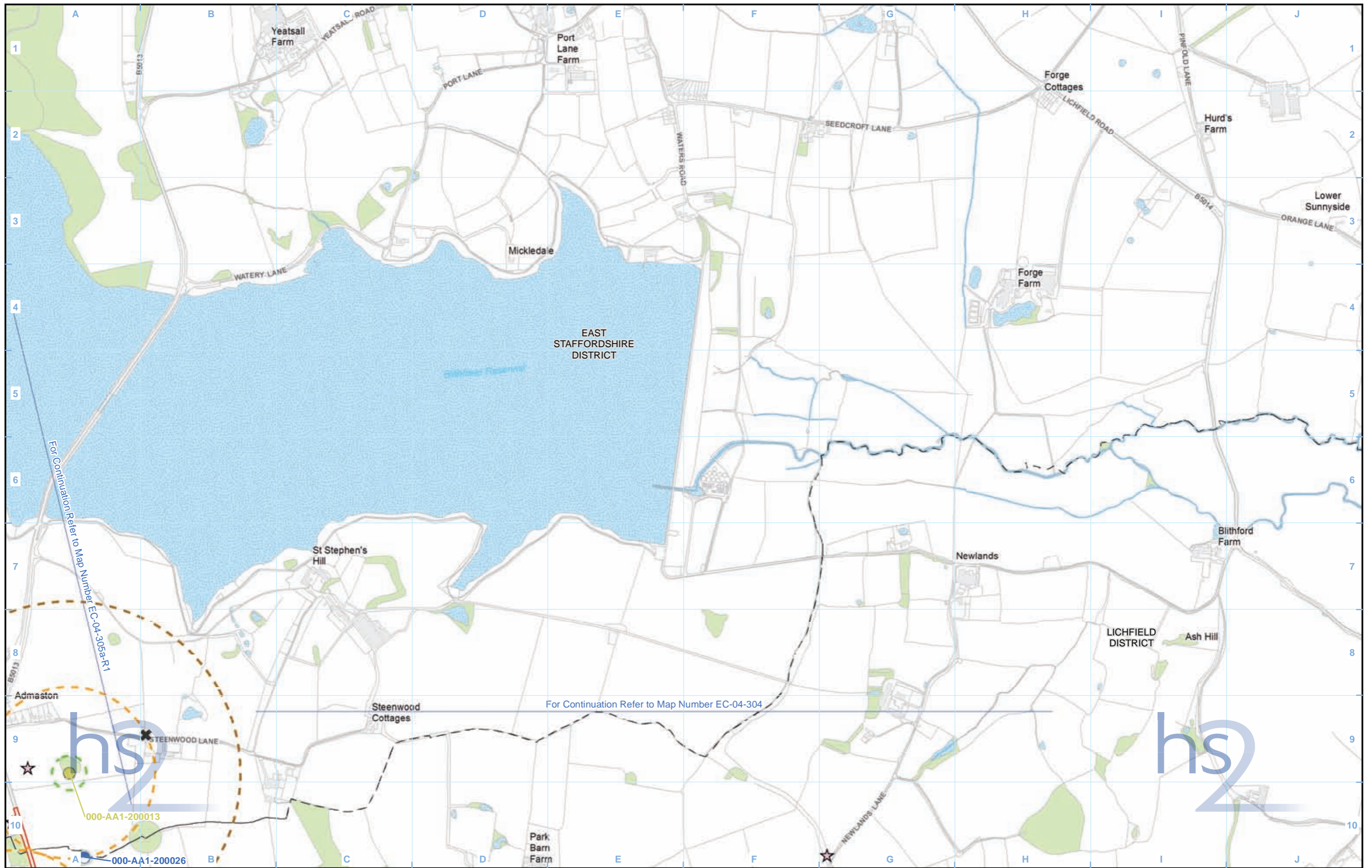
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Doc Number: C861-ARP-EV-MAP-000-074404-P03

Scale at A3: 1:10,000


Metres

Date: 14/06/17



Legend			
	Route in bored tunnel		District/Borough boundary
	Route on surface		Watercourse
	Depot, station, headhouse or portal building		Water body
	Land potentially required during construction		Woodland (not verified by survey)
	Community area boundary		Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	County boundary		Great Crested Newts confirmed present - no size class determined
			Scoped in - no access permission
			Scoped out - no survey required
			50m radius from all water bodies where presence of Great Crested Newts is confirmed
			250m radius from all water bodies where presence of Great Crested Newts is confirmed
			500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-304-R1
Map Name	Amphibians
	Community Area 1: Fradley to Colton




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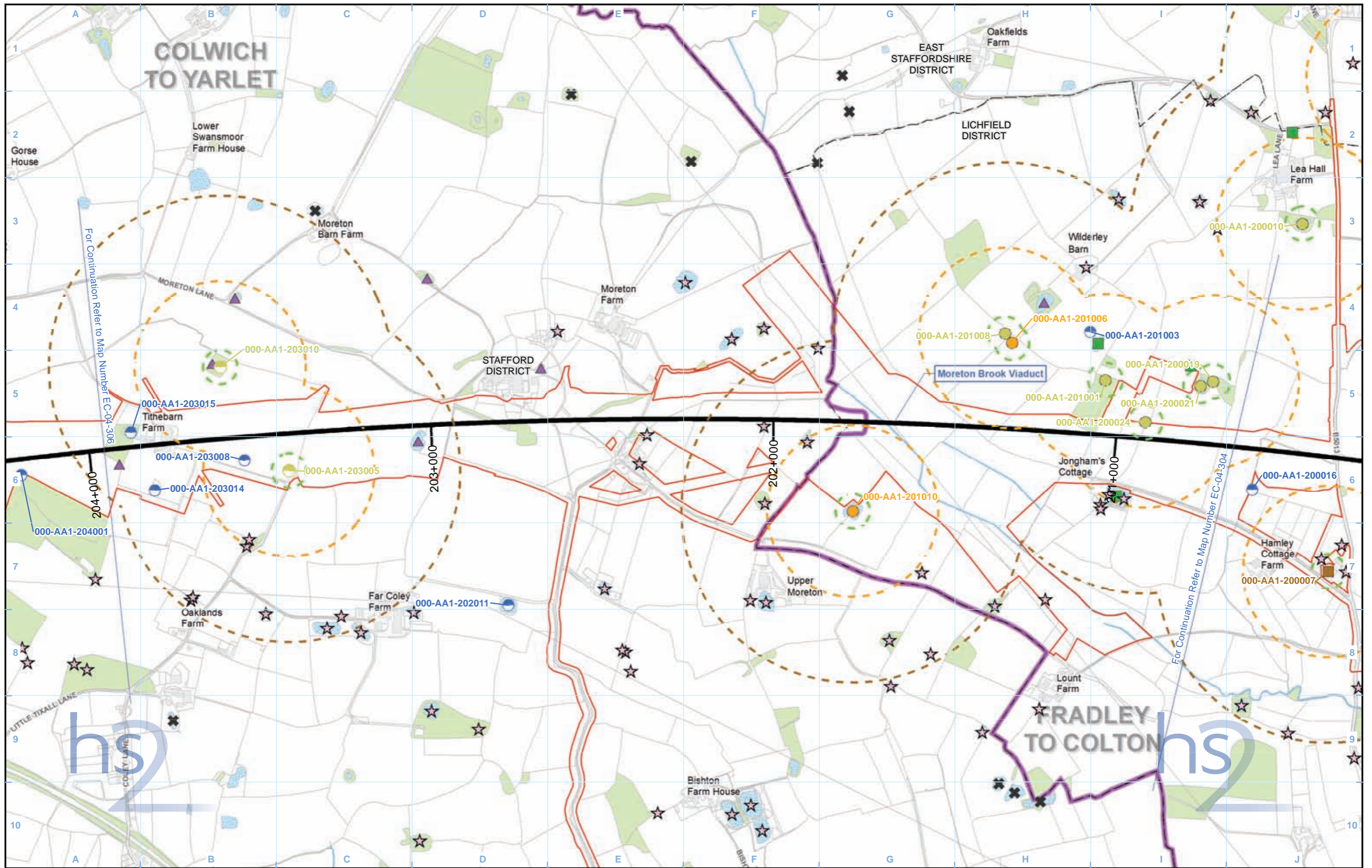
Scale at A3: 1:10,000



Metres



Date: 14/06/17



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - Great Crested Newts present (1 - 10 adults)
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)
	Great Crested Newts confirmed present - no size class determined
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-305a
Map Name	Amphibians
Community Area 1:	Fradley to Colton

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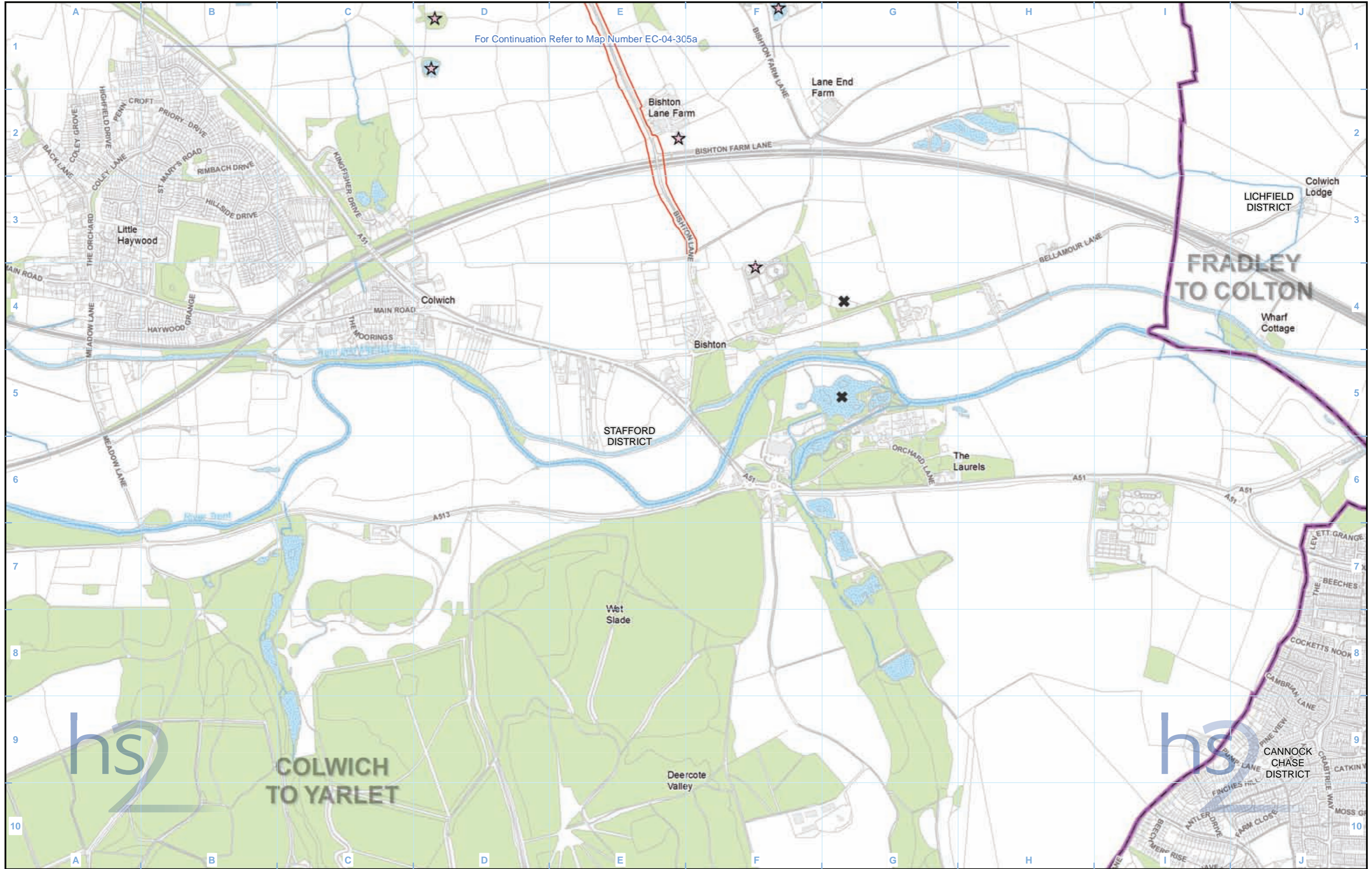
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**Legend**


Map Number	EC-04-305a-L1
Map Name	Amphibians
Community Area 1:	Fradley to Colton

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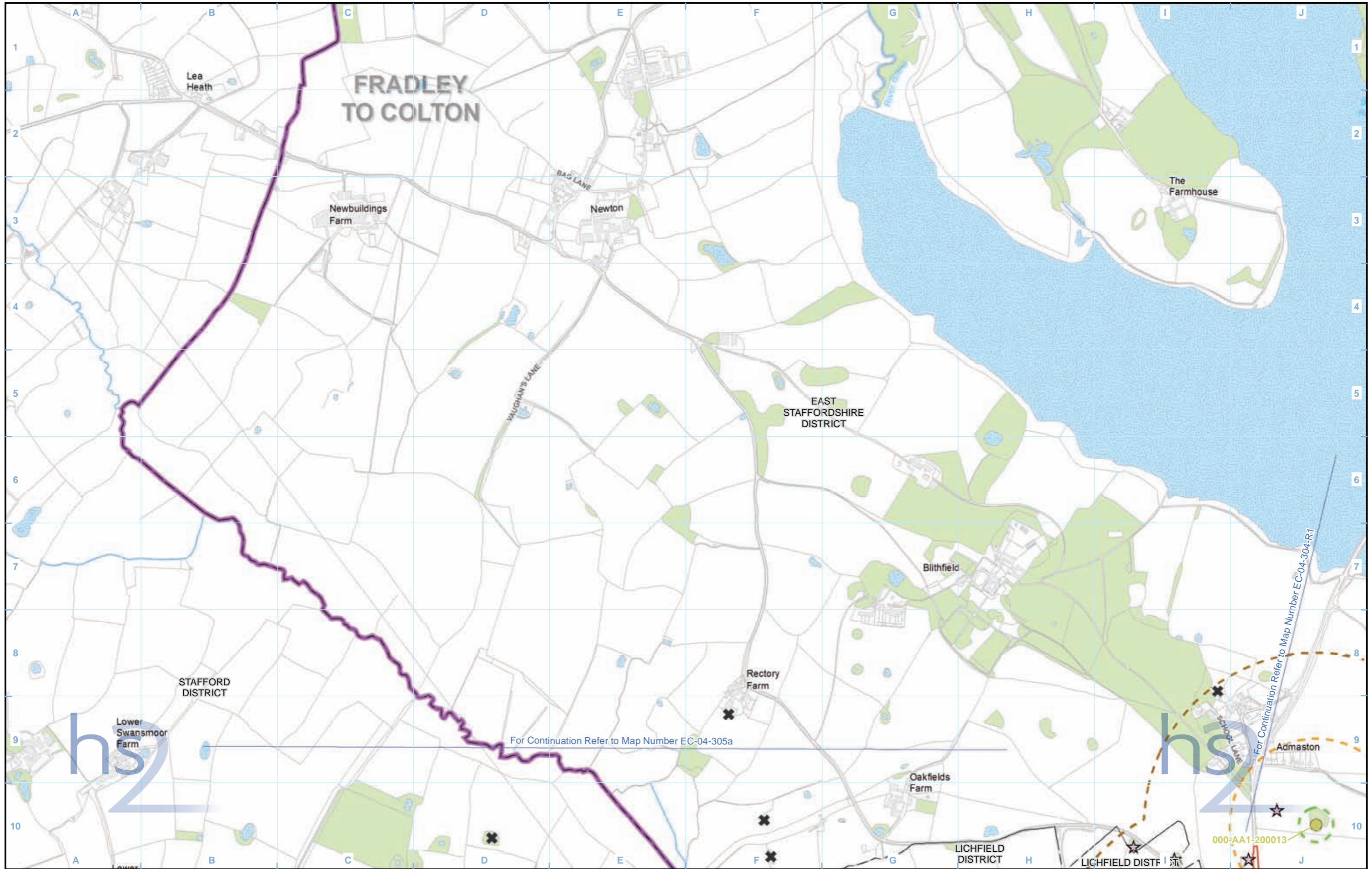
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Date: 14/06/17



Legend	
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-305a-R1
Map Name	Amphibians
	Community Area 1: Fradley to Colton

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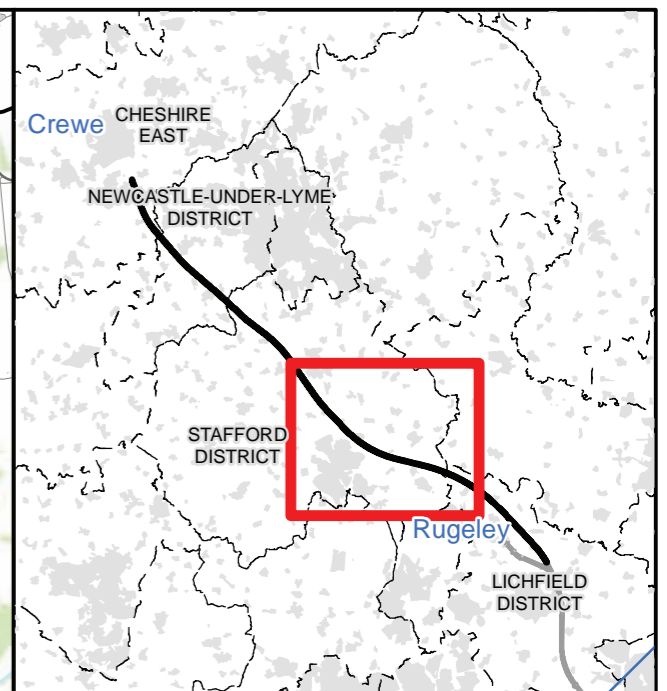
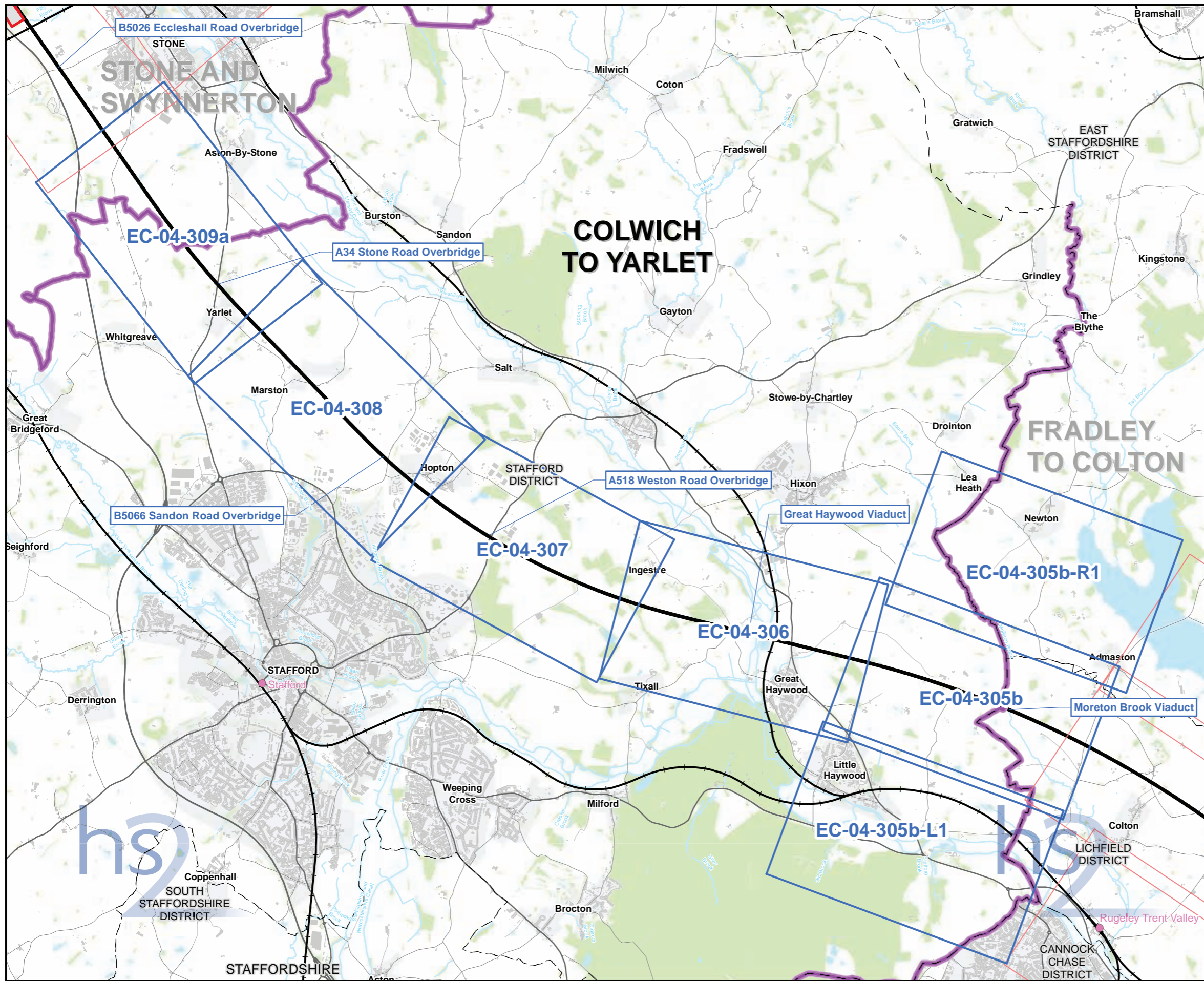
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Doc Number: C861-ARP-EV-MAP-000-074505-P03

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**Map Series Information:**

This map series shows the results of amphibian surveys conducted to inform the Environmental Statement. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded

- Main Map Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Community area boundary
  - Existing railway station
  - County boundary
  - District/Borough boundary
  - Map sheets included in this community area
  - Map sheets not included in this community area

Map Number	EC-04-INDEX-CA2
Map Name	Index Map of: Amphibians
	Community Area 2: Colwich to Yarlet

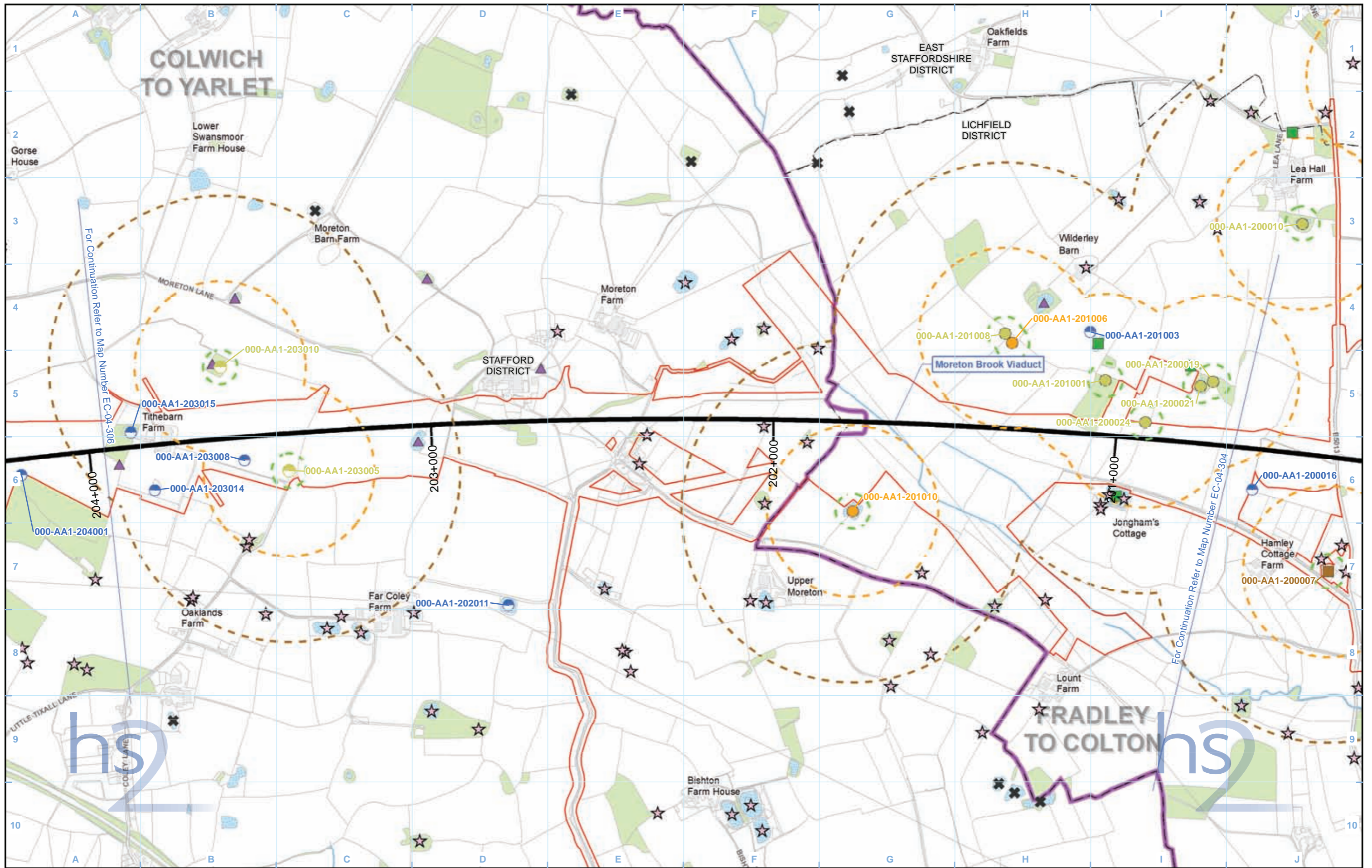
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Doc Number: C861-ARP-EV-MAP-000-074002-P03 **Date:** 14/06/17



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - Great Crested Newts present (1 - 10 adults)
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)
	Great Crested Newts confirmed present - no size class determined
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-305b
Map Name	Amphibians
Community Area 2:	Colwich to Yarlet

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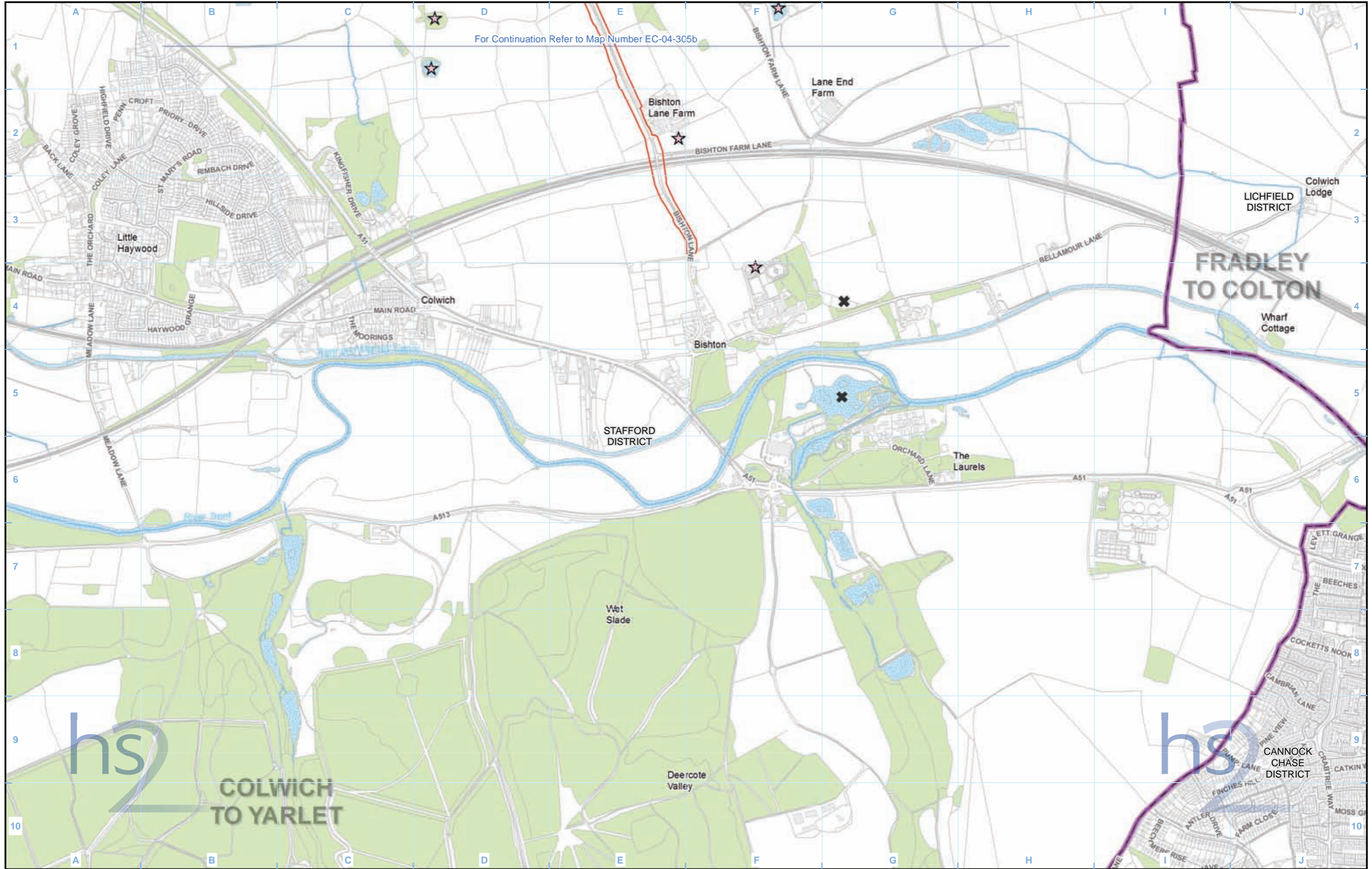
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Scale at A3: 1:10,000

Metres


Date: 14/06/17

For Continuation Refer to Map Number EC-04-305b



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	Scoped in - no access permission
	Scoped out - no survey required

Map Number	EC-04-305b-L1
Map Name	Amphibians
Community Area 2:	Colwich to Yarlet


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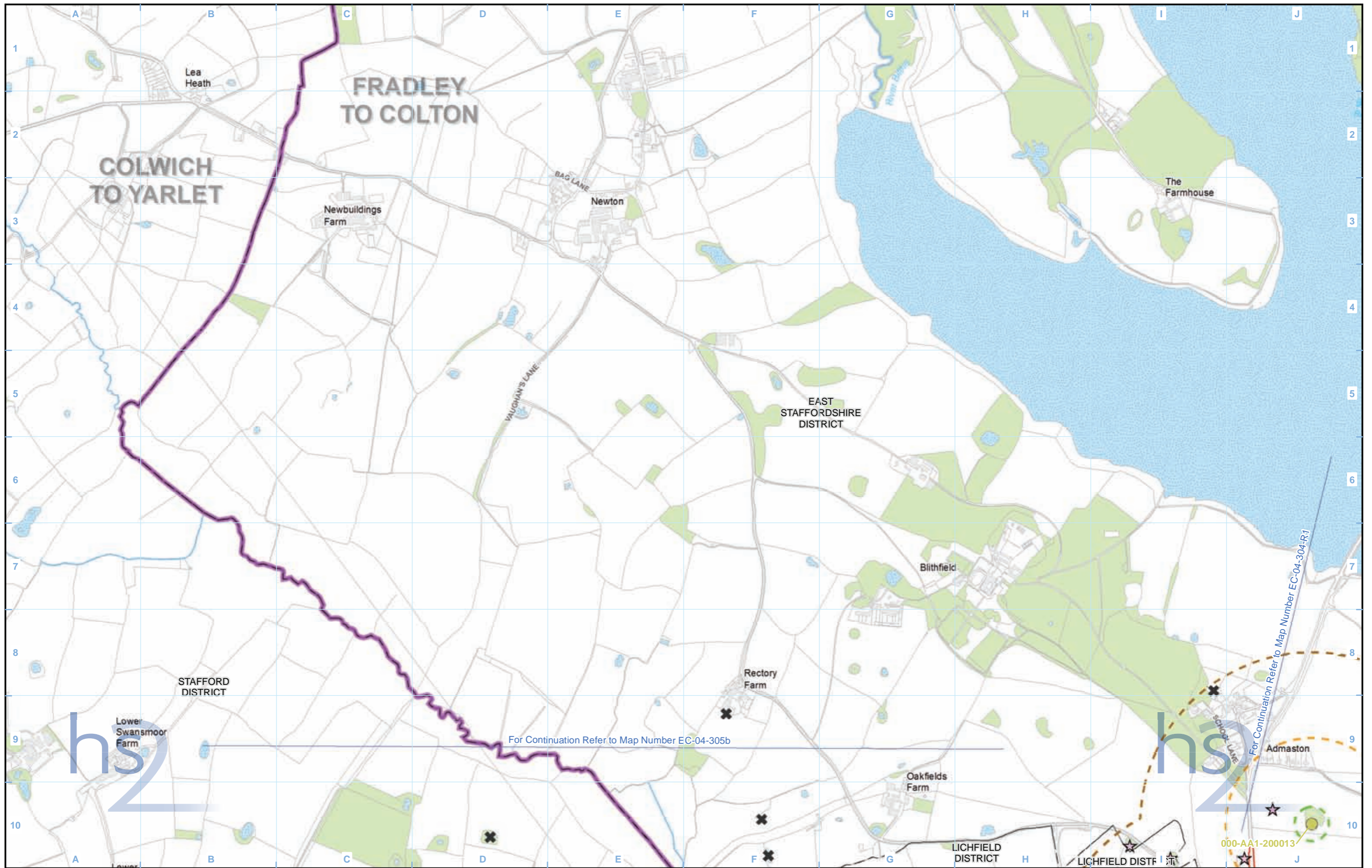
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Doc Number: C861-ARP-EV-MAP-000-074705-P03

Date: 14/06/17



Legend			

Map Number	EC-04-305b-R1
Map Name	Amphibians
	Community Area 2: Colwich to Yarlet

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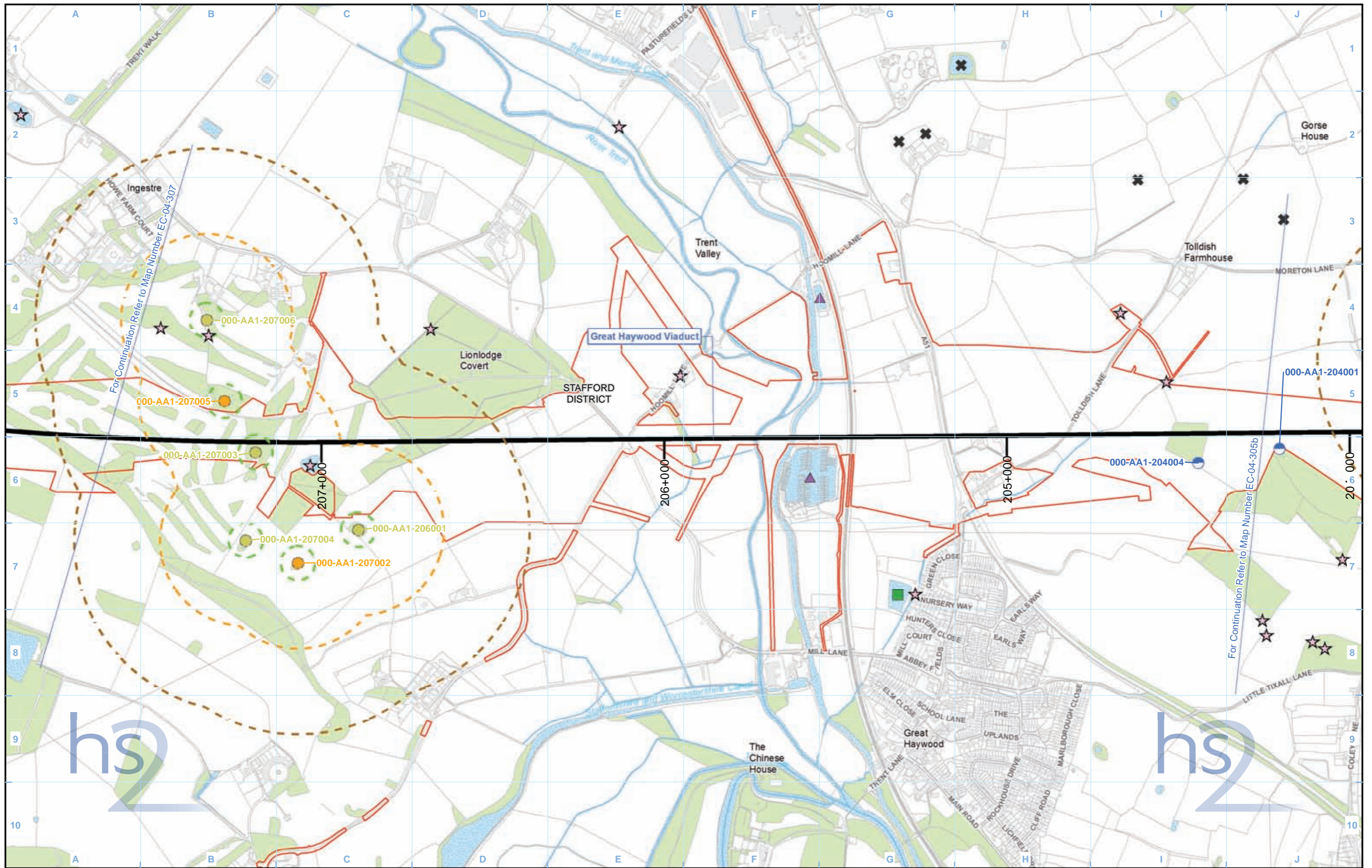
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Date: 14/06/17



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Great Crested Newts confirmed present - no size class determined
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-306
Map Name	Amphibians
	Community Area 2: Colwich to Yarlet

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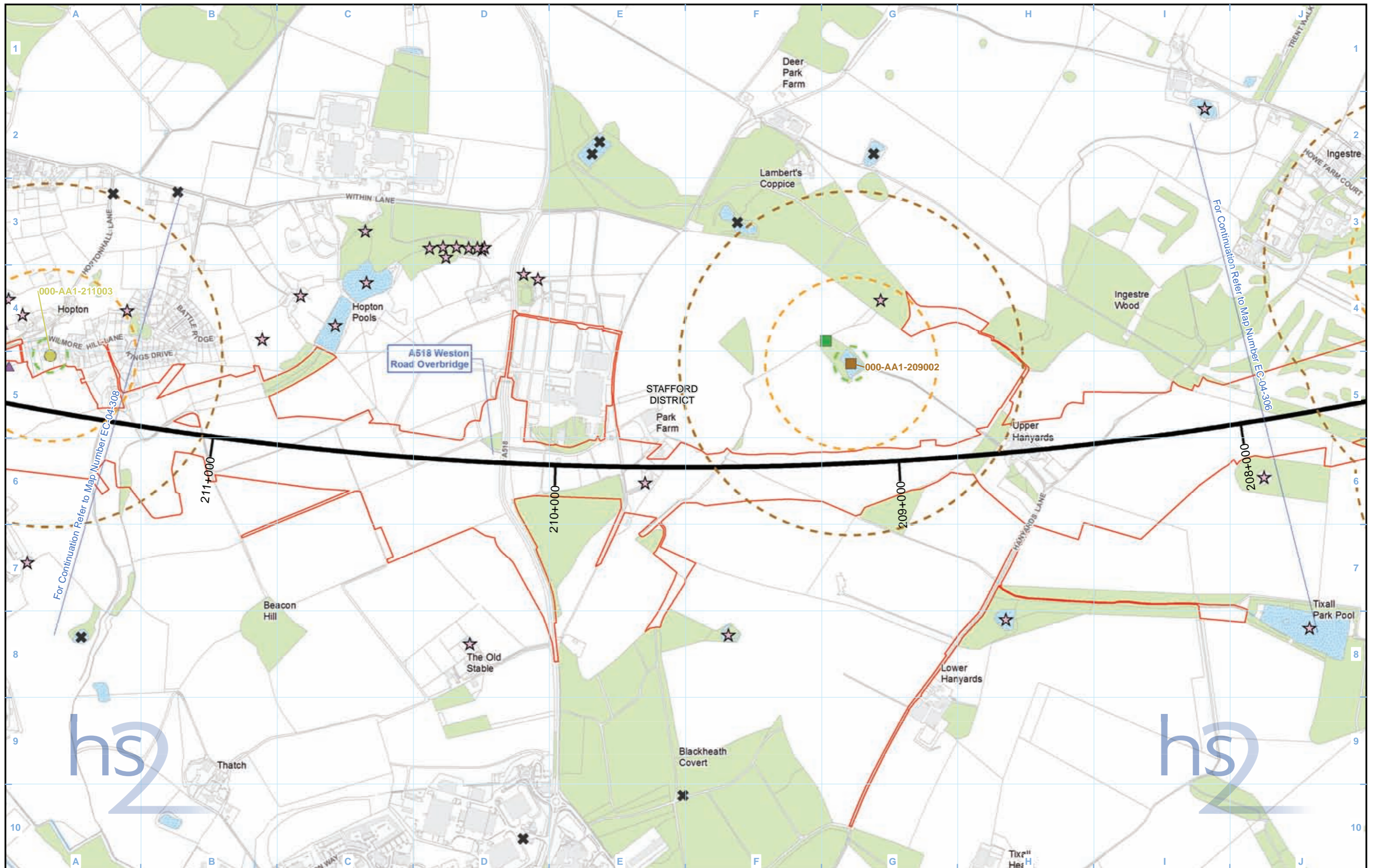
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Doc Number: C861-ARP-EV-MAP-000-074306-P03

Date: 14/06/17





Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-307
Map Name	Amphibians
Community Area 2: Colwich to Yarlet	

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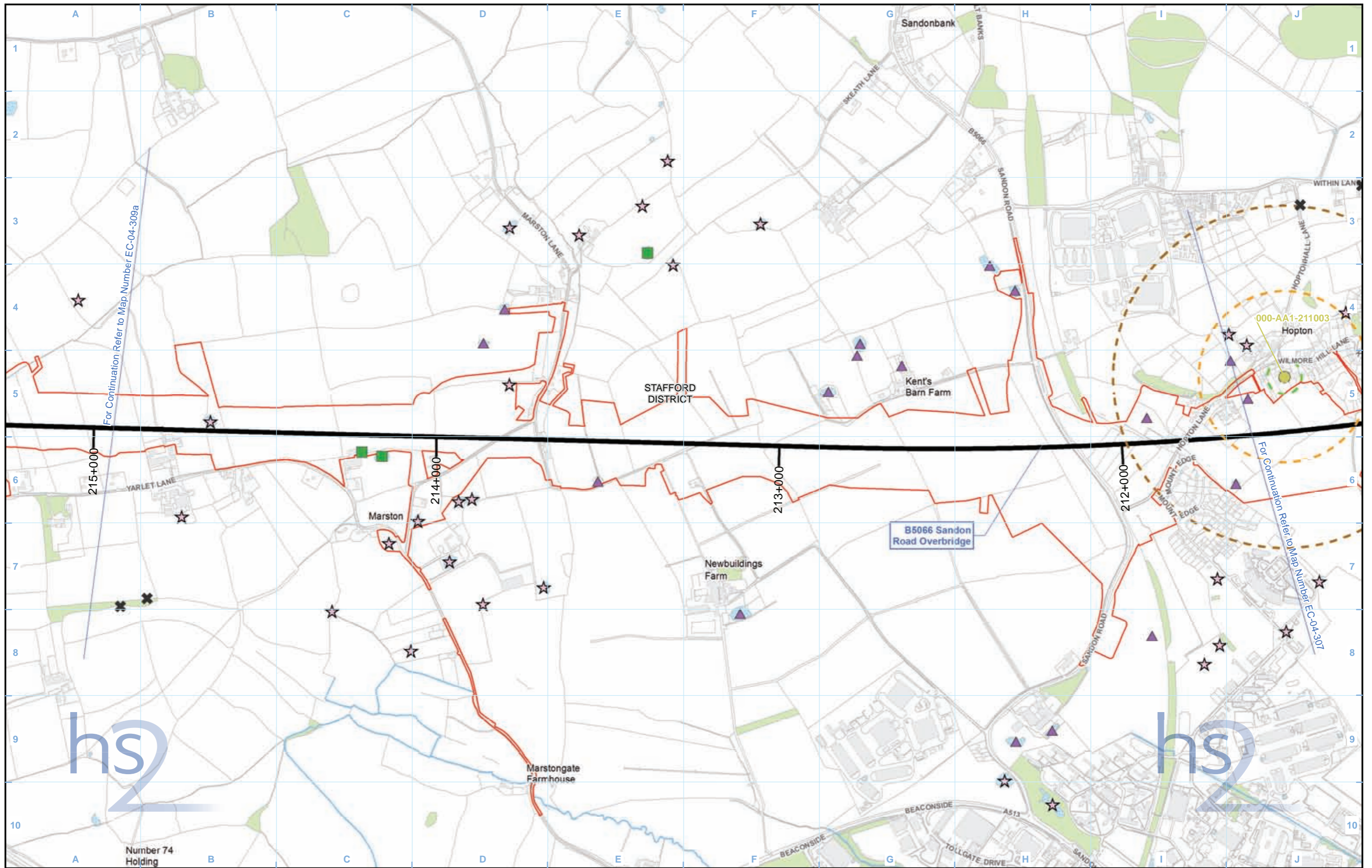
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Date: 14/06/17



Legend	
Route in bored tunnel	District/Borough boundary
Route on surface	Watercourse
Depot, station, headhouse or portal building	Water body
Land potentially required during construction	Woodland (not verified by survey)
Community area boundary	eDNA survey complete - Great Crested Newts assumed absent
County boundary	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-308
Map Name	Amphibians
	Community Area 2: Colwich to Yarlet

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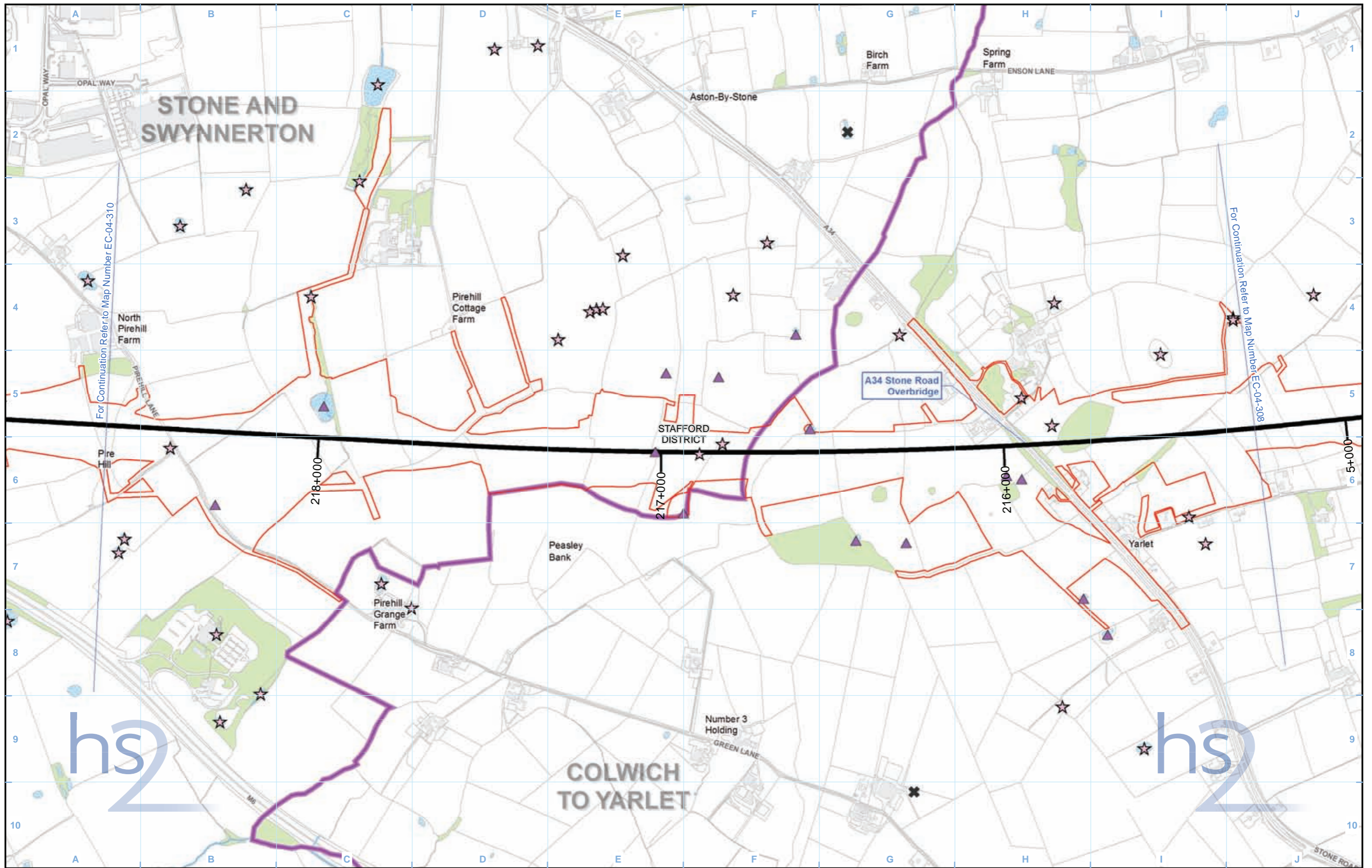
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Doc Number: C861-ARP-EV-MAP-000-074308-P03

Date: 14/06/17



Legend			
	Route in bored tunnel		District/Borough boundary
	Route on surface		Watercourse
	Depot, station, headhouse or portal building		Water body
	Land potentially required during construction		Woodland (not verified by survey)
	Community area boundary		Scoped in - Habitat Suitability Index (HSI)/walkover only
	County boundary		Scoped in - no access permission
			Scoped out - no survey required

Map Number	EC-04-309a
Map Name	Amphibians
Community Area 2:	Colwich to Yarlet

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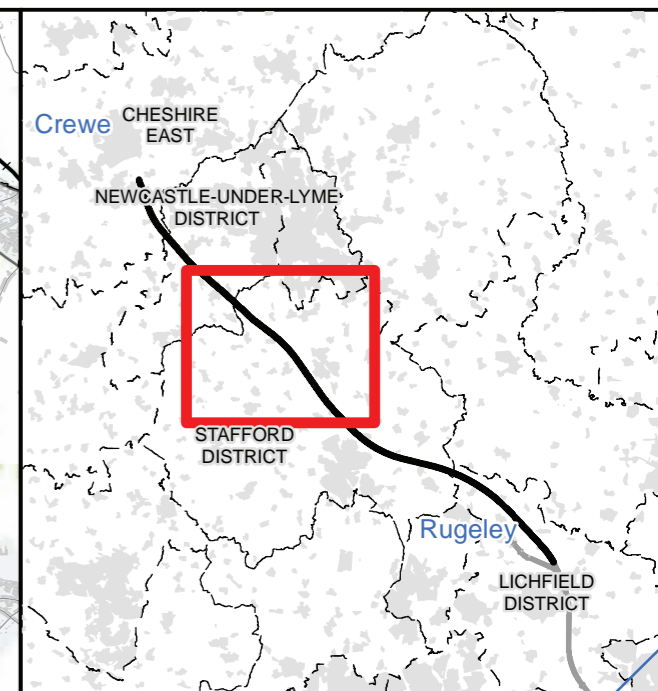
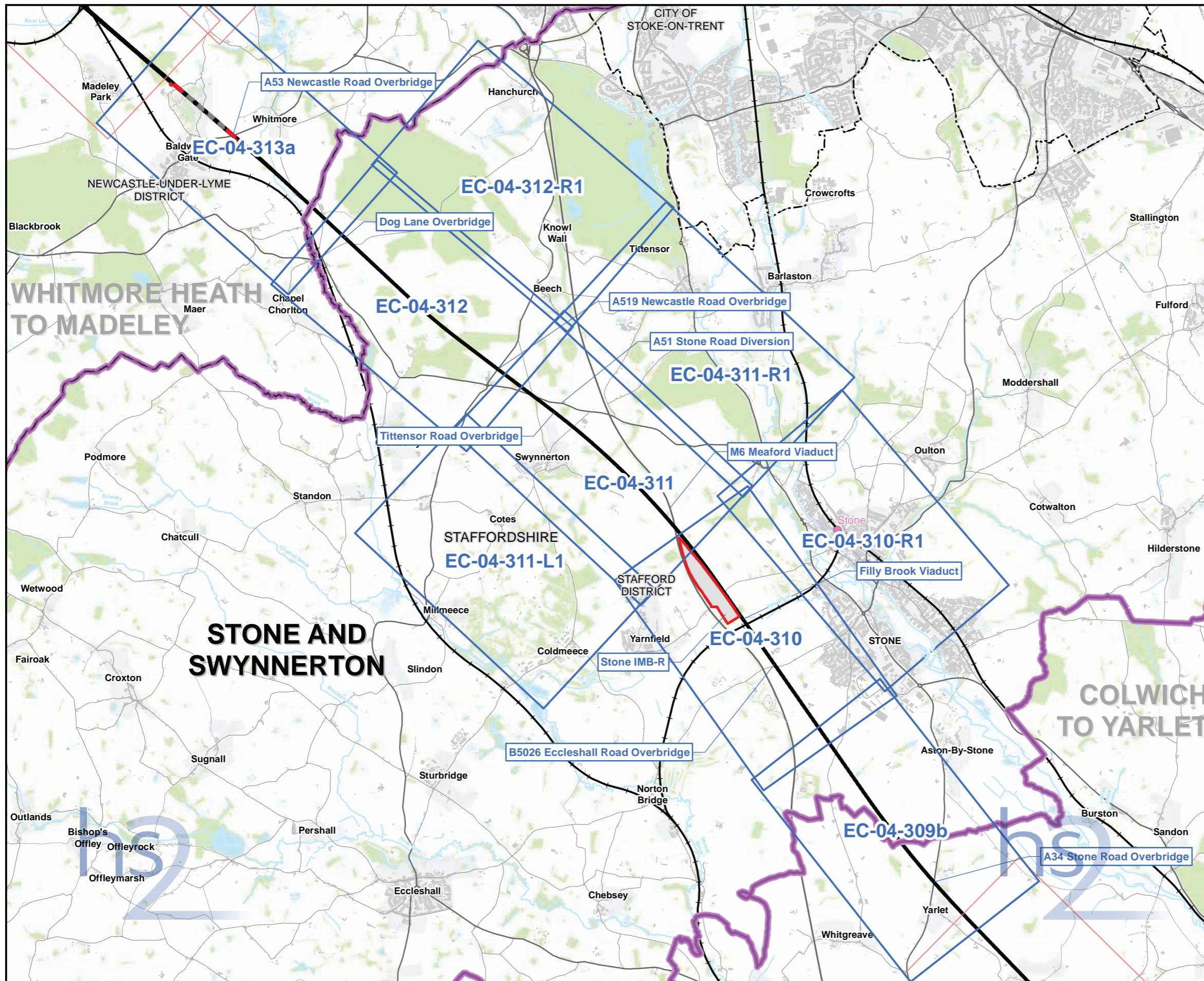
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Doc Number: C861-ARP-EV-MAP-000-074309-P03

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### Map Series Information:

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- Main Map Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Community area boundary
  - Existing railway station
  - County boundary
  - District/Borough boundary
  - Map sheets included in this community area
  - Map sheets not included in this community area

Map Number	EC-04-INDEX-CA3
Map Name	Index Map of: Amphibians
	Community Area 3: Stone and Swynnerton

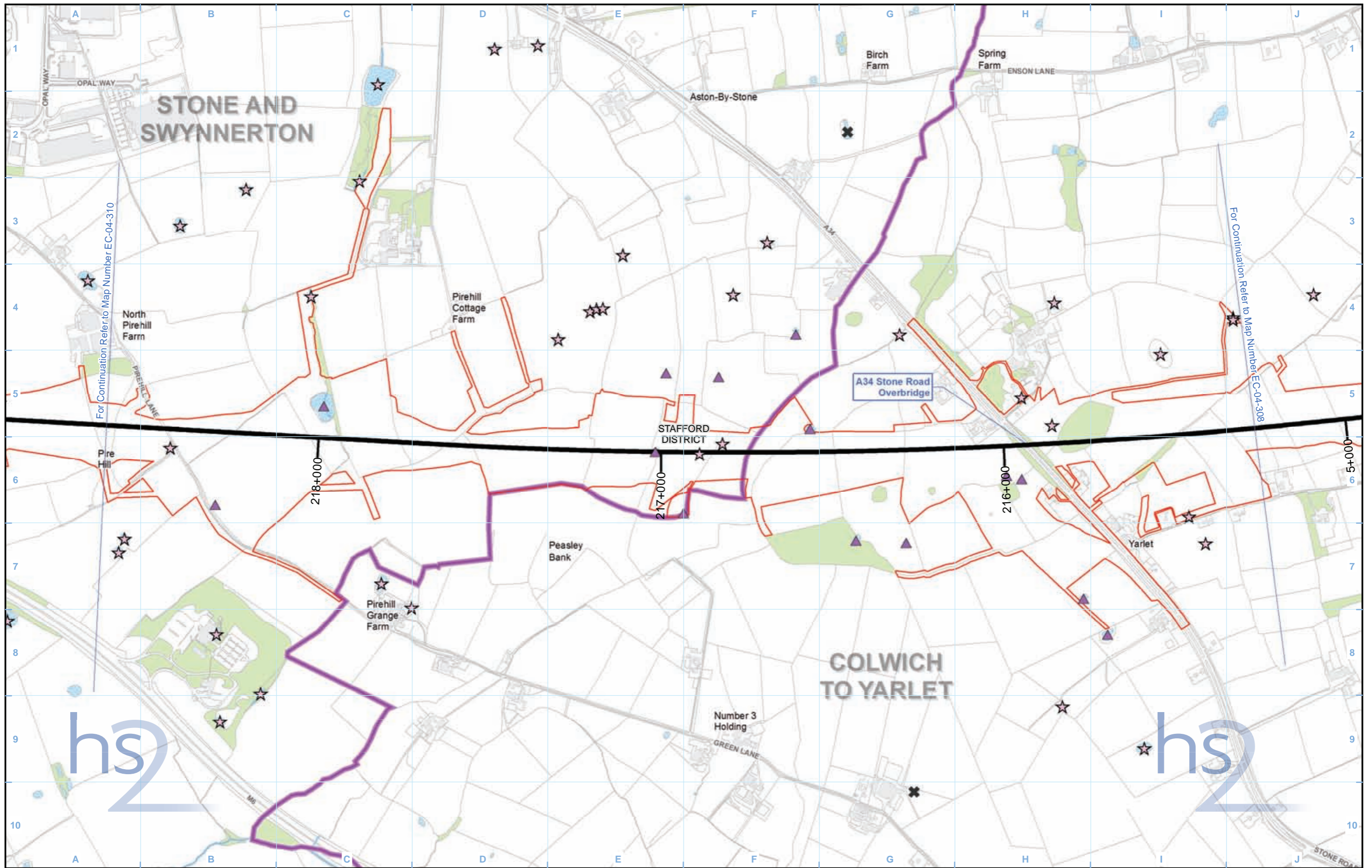
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Doc Number: C861-ARP-EV-MAP-000-074003-P03 **Date: 14/06/17**



Legend			
	Route in bored tunnel		District/Borough boundary
	Route on surface		Watercourse
	Depot, station, headhouse or portal building		Water body
	Land potentially required during construction		Woodland (not verified by survey)
	Community area boundary		Scoped in - Habitat Suitability Index (HSI)/walkover only
	County boundary		Scoped in - no access permission
			Scoped out - no survey required

Map Number	EC-04-309b
Map Name	Amphibians
Community Area 3: Stone and Swynnerton	

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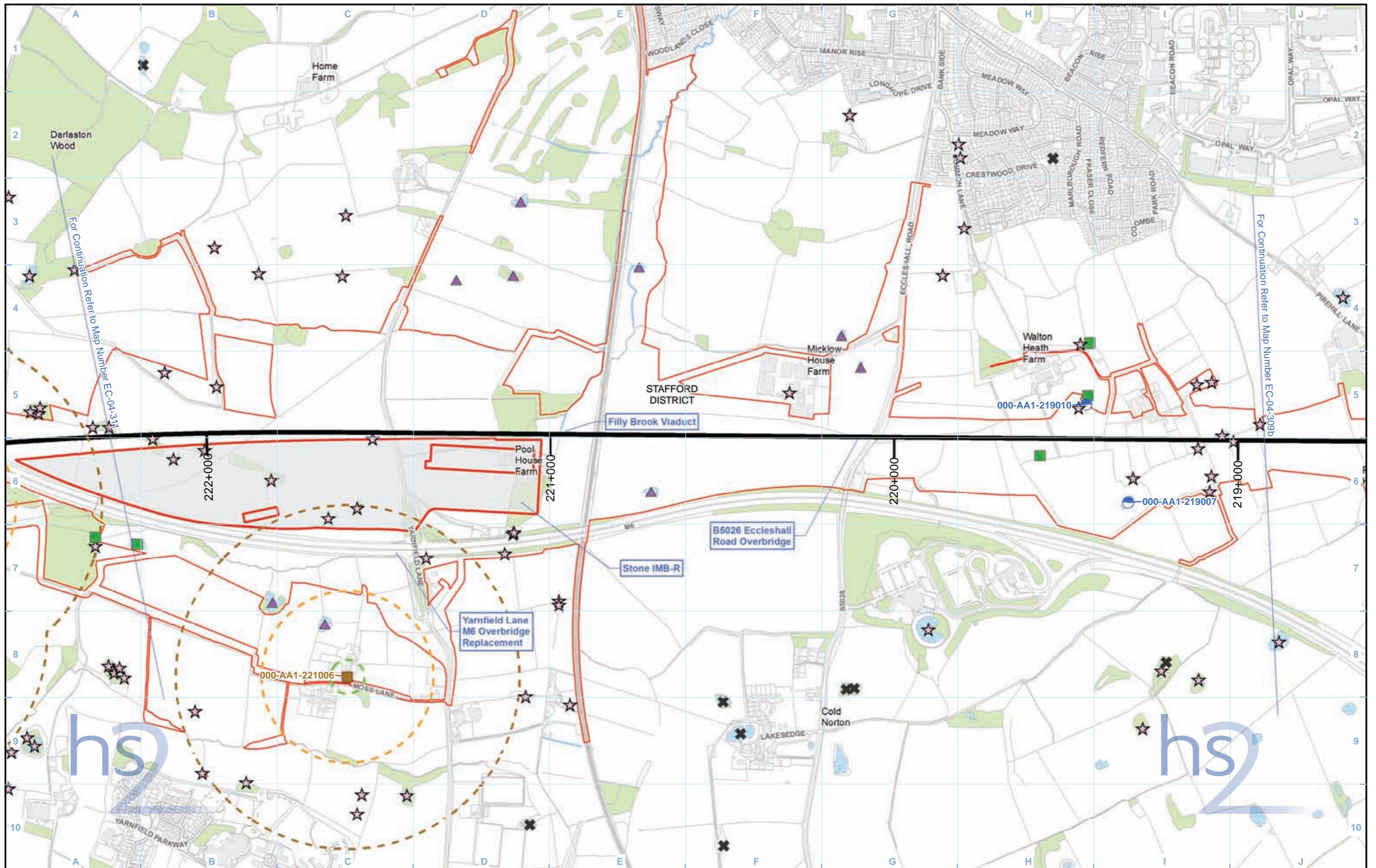
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Doc Number: C861-ARP-EV-MAP-000-074409-P03

Scale at A3: 1:10,000

Metres

Date: 14/06/17



Legend	
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	Great Crested Newts confirmed present - no size class determined
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-310
Map Name	Amphibians
	Community Area 3: Stone and Swynnerton

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Doc Number: C861-ARP-EV-MAP-000-074310-P03

Date: 14/06/17



**Legend**


Map Number	EC-04-310-R1
Map Name	Amphibians
	Community Area 3: Stone and Swynnerton

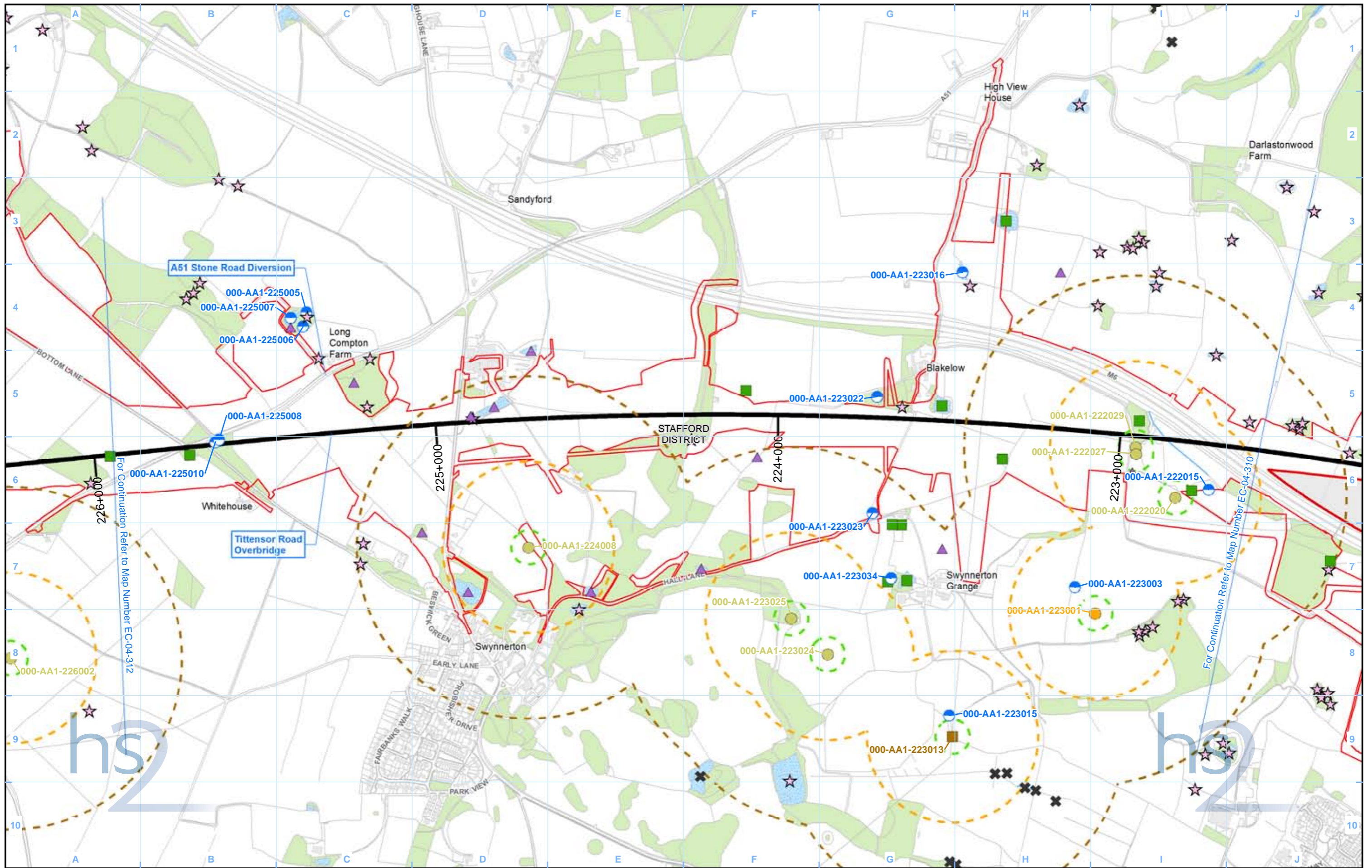
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Doc Number: C861-ARP-EV-MAP-000-074410-P03 **Date: 14/06/17**



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - Great Crested Newts present (1 - 10 adults)
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Great Crested Newts confirmed present - no size class determined
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-311
Map Name	Amphibians
	Community Area 3: Stone and Swynnerton

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Doc Number: C861-ARP-EV-MAP-000-074311-P03

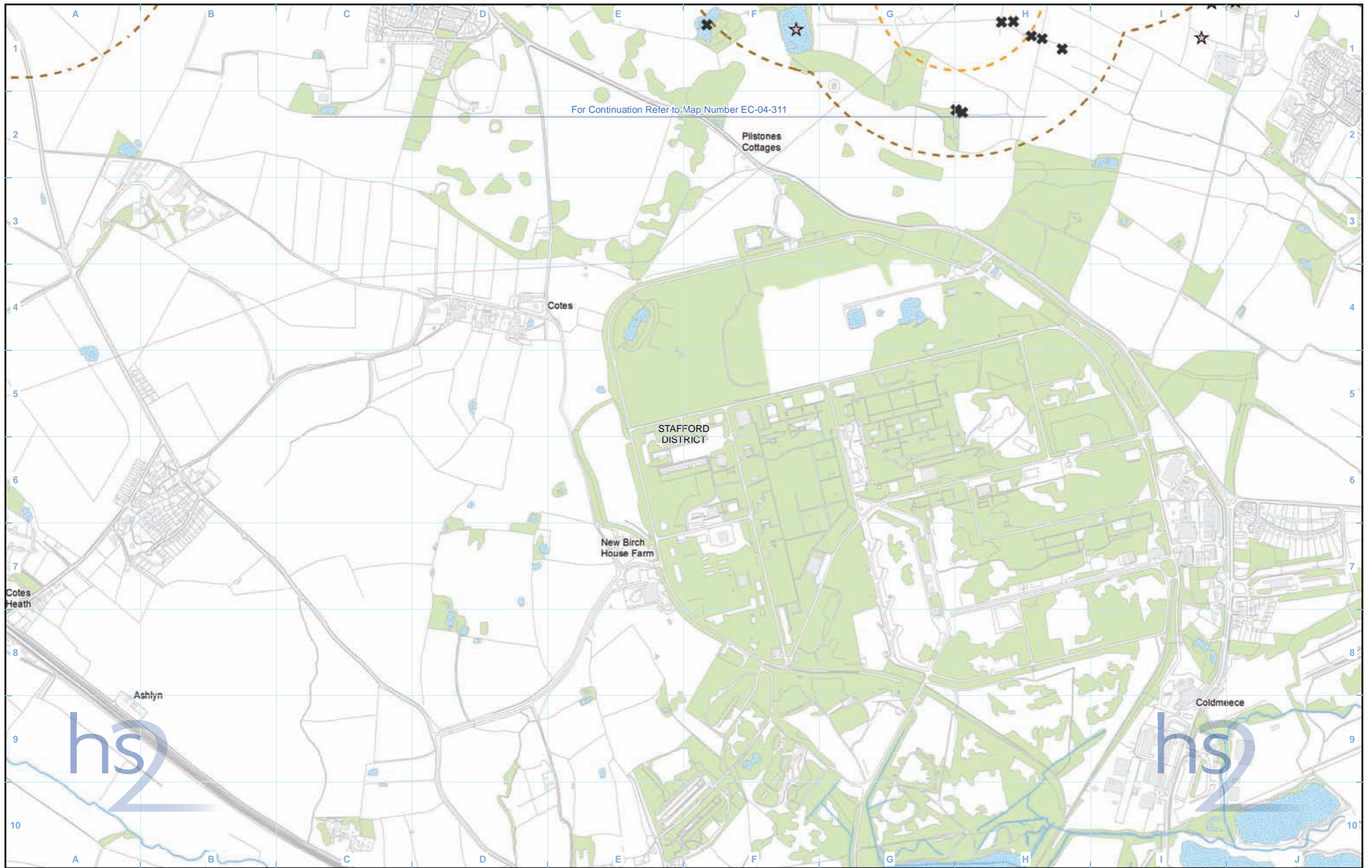
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For Continuation Refer to Map Number EC-04-311

Legend			

Map Number	EC-04-311-L1
Map Name	Amphibians
	Community Area 3: Stone and Swynnerton

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Doc Number: C861-ARP-EV-MAP-000-074411-P03

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Metres

Date: 14/06/17



Legend		

Map Number	EC-04-311-R1
Map Name	Amphibians
Community Area 3: Stone and Swynnerton	

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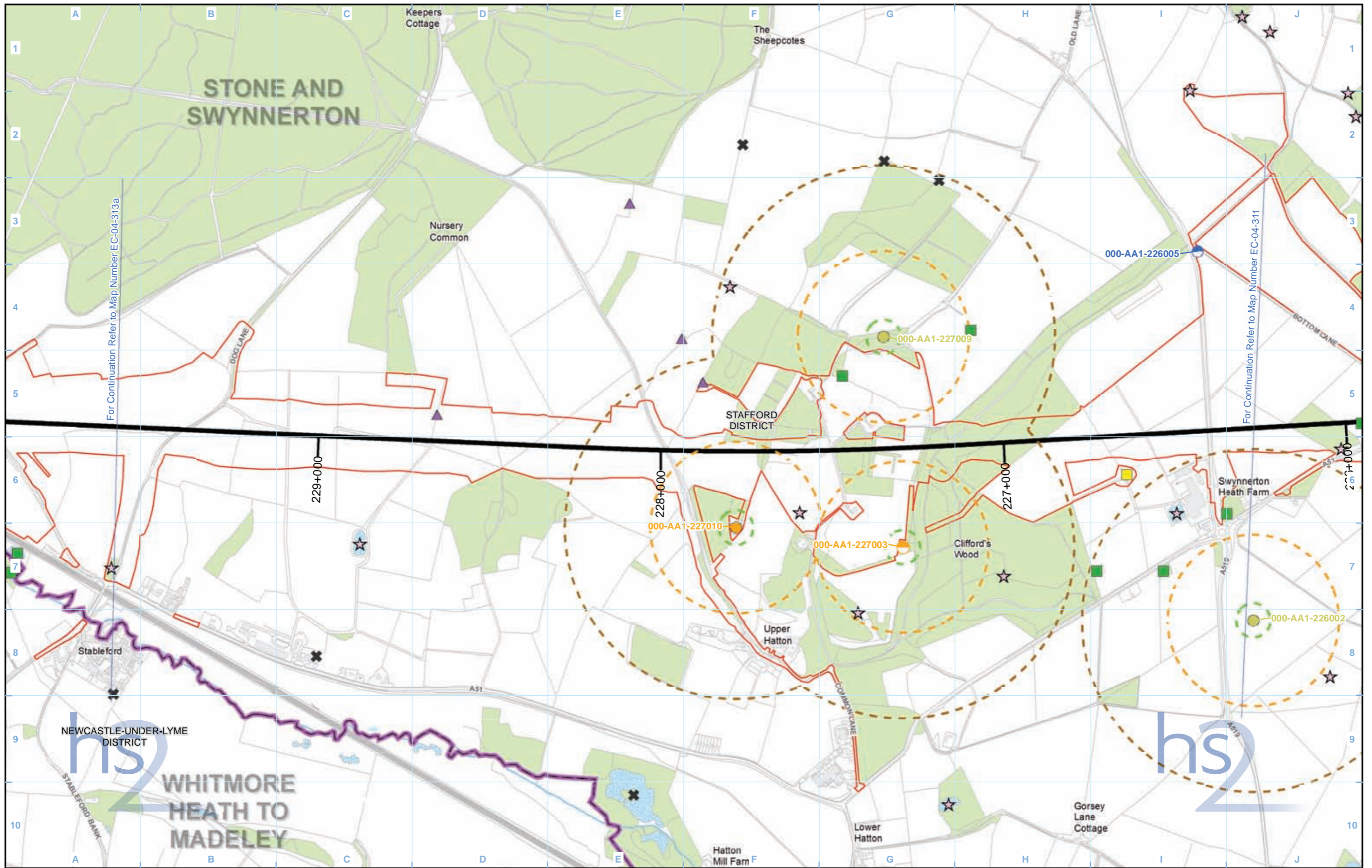
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0 100 200 300 400 Metres

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Doc Number: C861-ARP-EV-MAP-000-074511-P03

Date: 14/06/17



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - result inconclusive
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
	Great Crested Newts confirmed present - no size class determined
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Great Crested Newts present (less than 6 visits) - medium population (11 - 99 adults)
	Great Crested Newts confirmed present - no size class determined
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-312
Map Name	Amphibians
Community Area 3: Stone and Swynnerton	

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Doc Number: C861-ARP-EV-MAP-000-074312-P03

Date: 14/06/17



Legend		

Map Number	EC-04-312-R1
Map Name	Amphibians
Community Area 3:	Stone and Swynnerton

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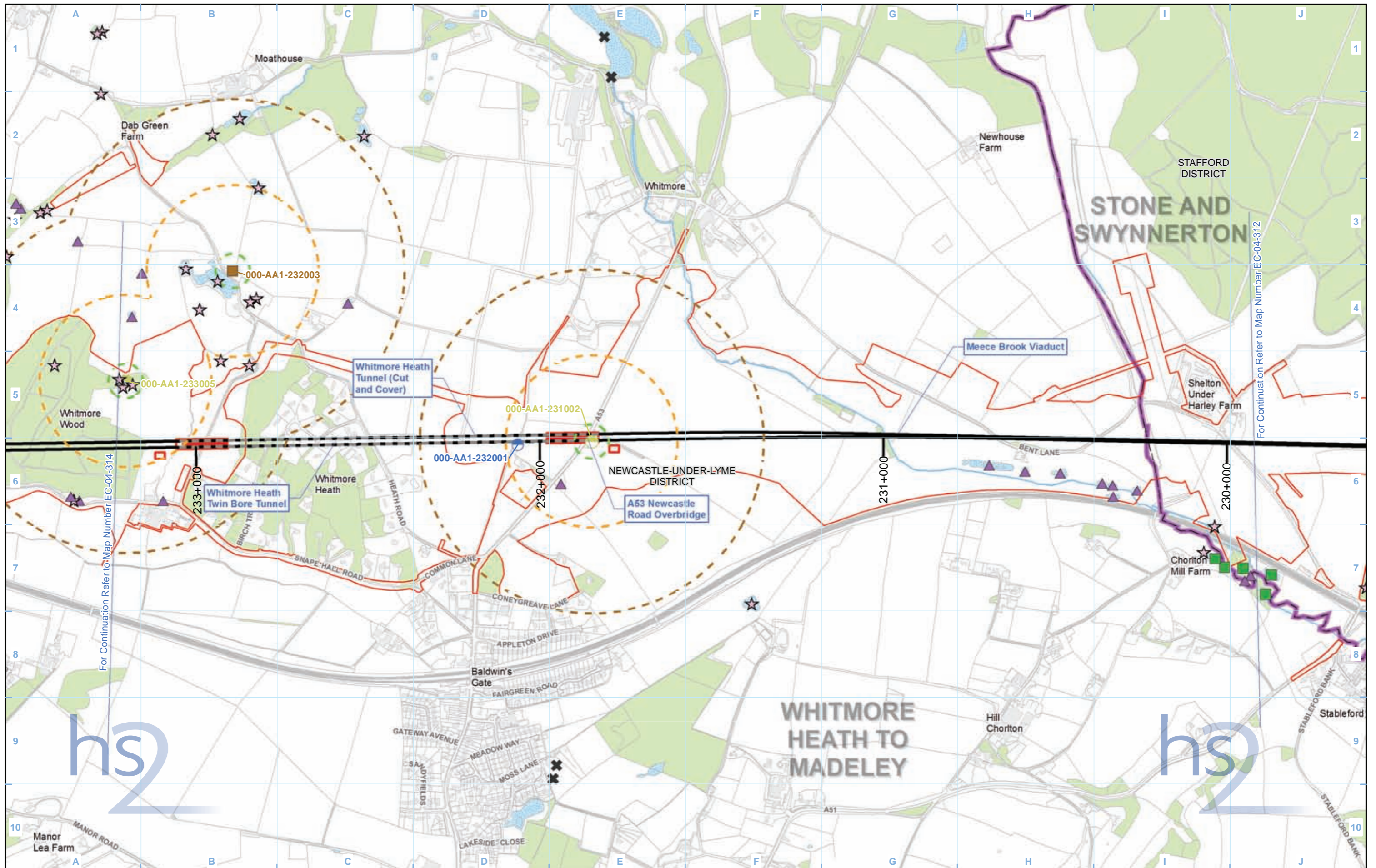
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Doc Number: C861-ARP-EV-MAP-000-074412-P03

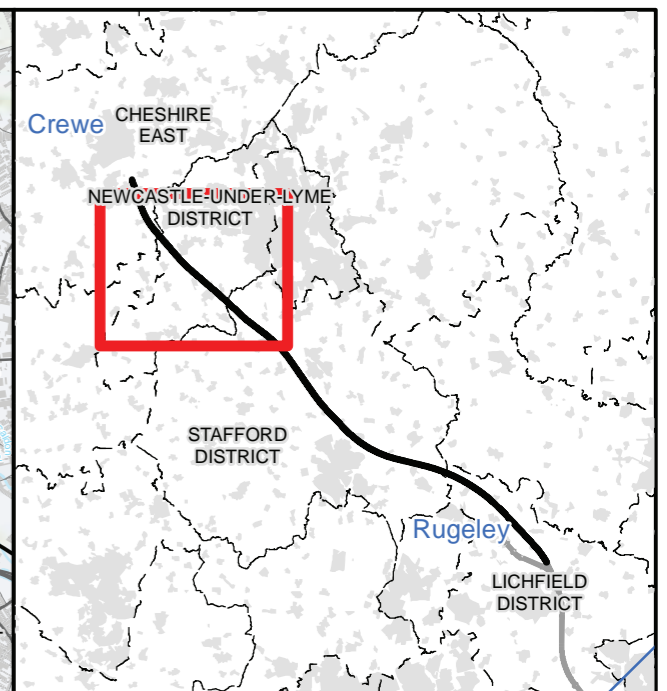
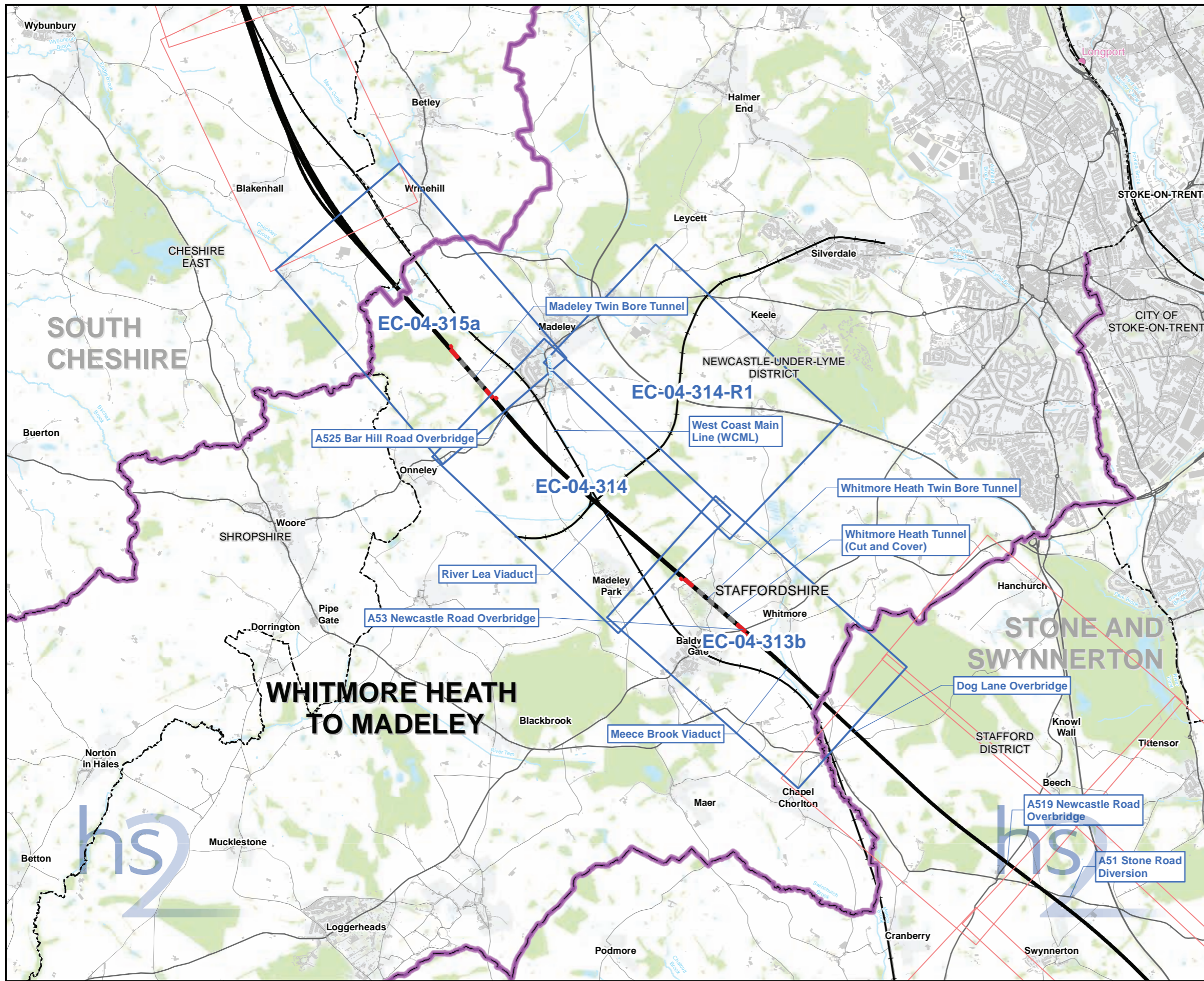
Date: 14/06/17



For Continuation Refer to Map Number EC-04-312

For Continuation Refer to Map Number EC-04-314

<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary		District/Borough boundary Watercourse Water body Woodland (not verified by survey)		eDNA survey complete - Great Crested Newts present eDNA survey complete - Great Crested Newts assumed absent Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults) Great Crested Newts confirmed present - no size class determined		Scoped in - Habitat Suitability Index (HSI)/walkover only Scoped in - no access permission Scoped out - no survey required 50m radius from all water bodies where presence of Great Crested Newts is confirmed		250m radius from all water bodies where presence of Great Crested Newts is confirmed 500m radius from all water bodies where presence of Great Crested Newts is confirmed	
<b>Map Number</b> EC-04-313a				<b>Map Name</b> Amphibians		HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.			
<b>Map Number</b> EC-04-313a		<b>Map Name</b> Amphibians		Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.		Scale at A3: 1:10,000 			
<b>Map Name</b> Community Area 3: Stone and Swynnerton		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		<b>Doc Number:</b> C861-ARP-EV-MAP-000-074313-P03		<b>Date:</b> 14/06/17			



**Map Series Information:**

This map series shows the results of amphibian surveys conducted to inform the Environmental Statement. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded

- Main Map Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Community area boundary
  - Existing railway station
  - County boundary
  - District/Borough boundary
  - Map sheets included in this community area
  - Map sheets not included in this community area

Map Number	EC-04-INDEX-CA4
Map Name	Index Map of: Amphibians
	Community Area 4: Whitmore Heath to Madeley

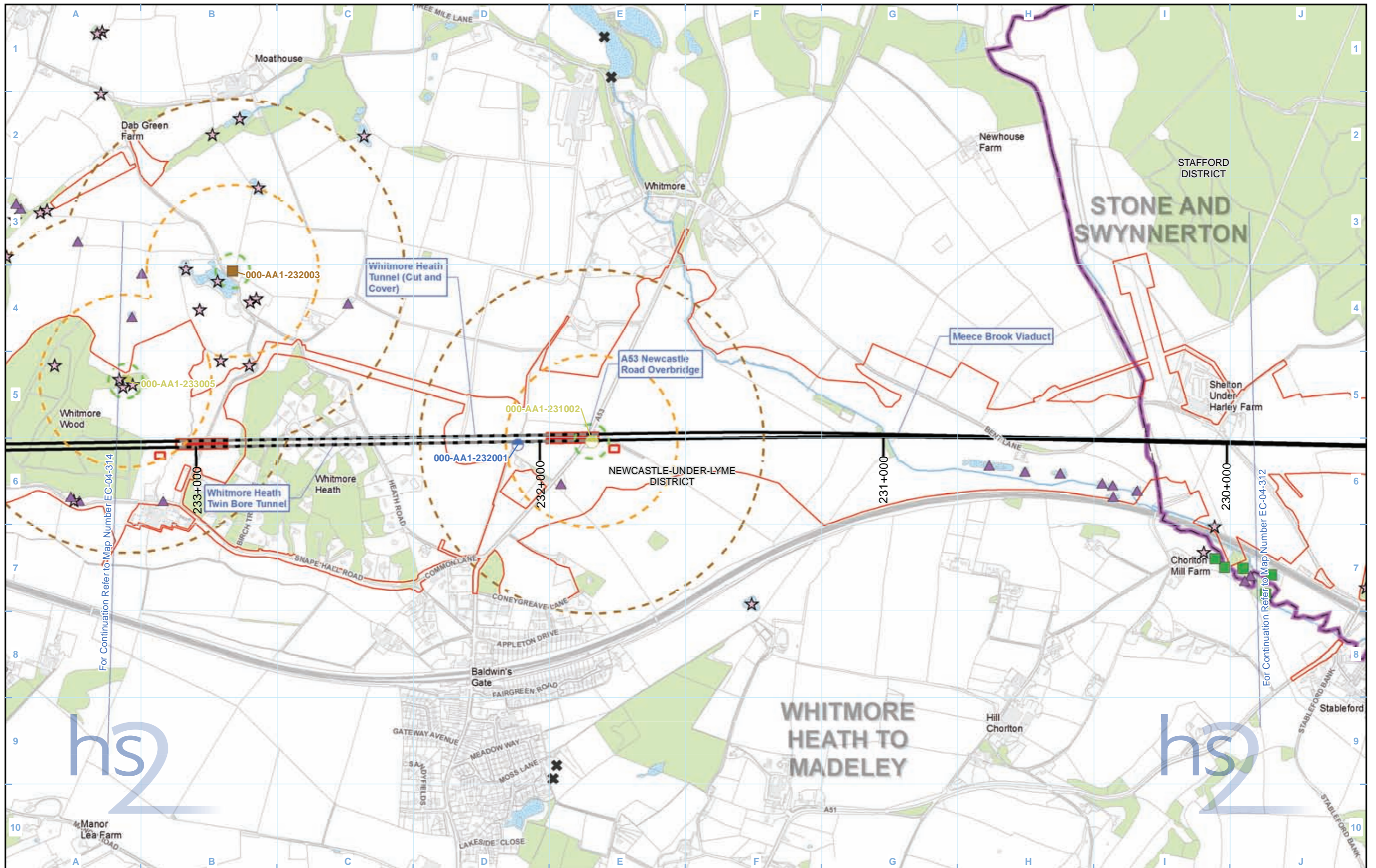
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Doc Number: C861-ARP-EV-MAP-000-074004-P03 **Date: 14/06/17**



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)
	Great Crested Newts confirmed present - no size class determined
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-313b
Map Name	Amphibians
Community Area 4: Whitmore Heath to Madeley	

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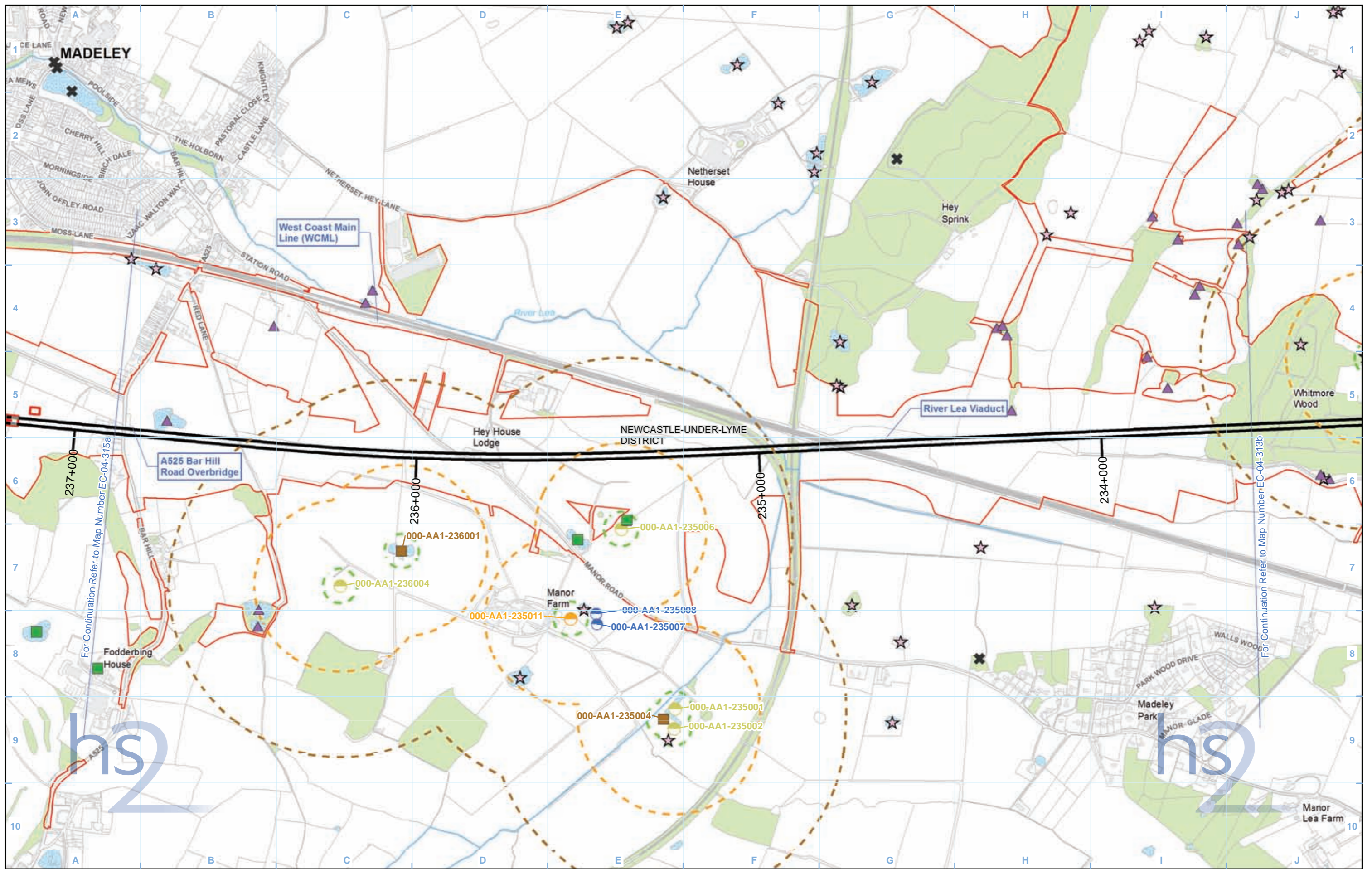
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Doc Number: C861-ARP-EV-MAP-000-074413-P03

Date: 14/06/17



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (less than 6 visits) - medium population (11 - 99 adults)
	Great Crested Newts confirmed present - no size class determined
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-314
Map Name	Amphibians
Community Area 4: Whitmore Heath to Madeley	

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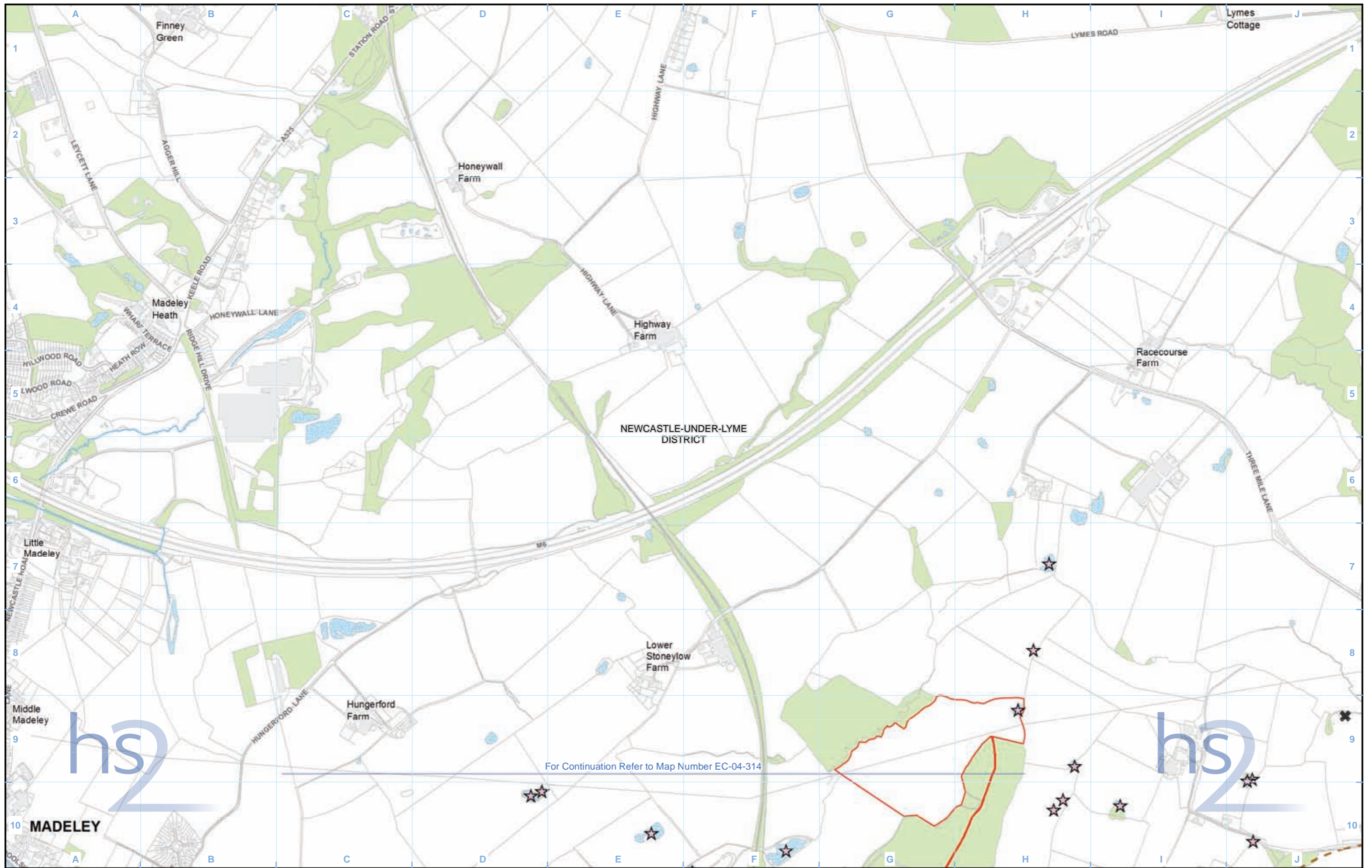
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For Continuation Refer to Map Number EC-04-314

Legend		

Map Number	EC-04-314-R1
Map Name	Amphibians
Community Area 4: Whitmore Heath to Madeley	

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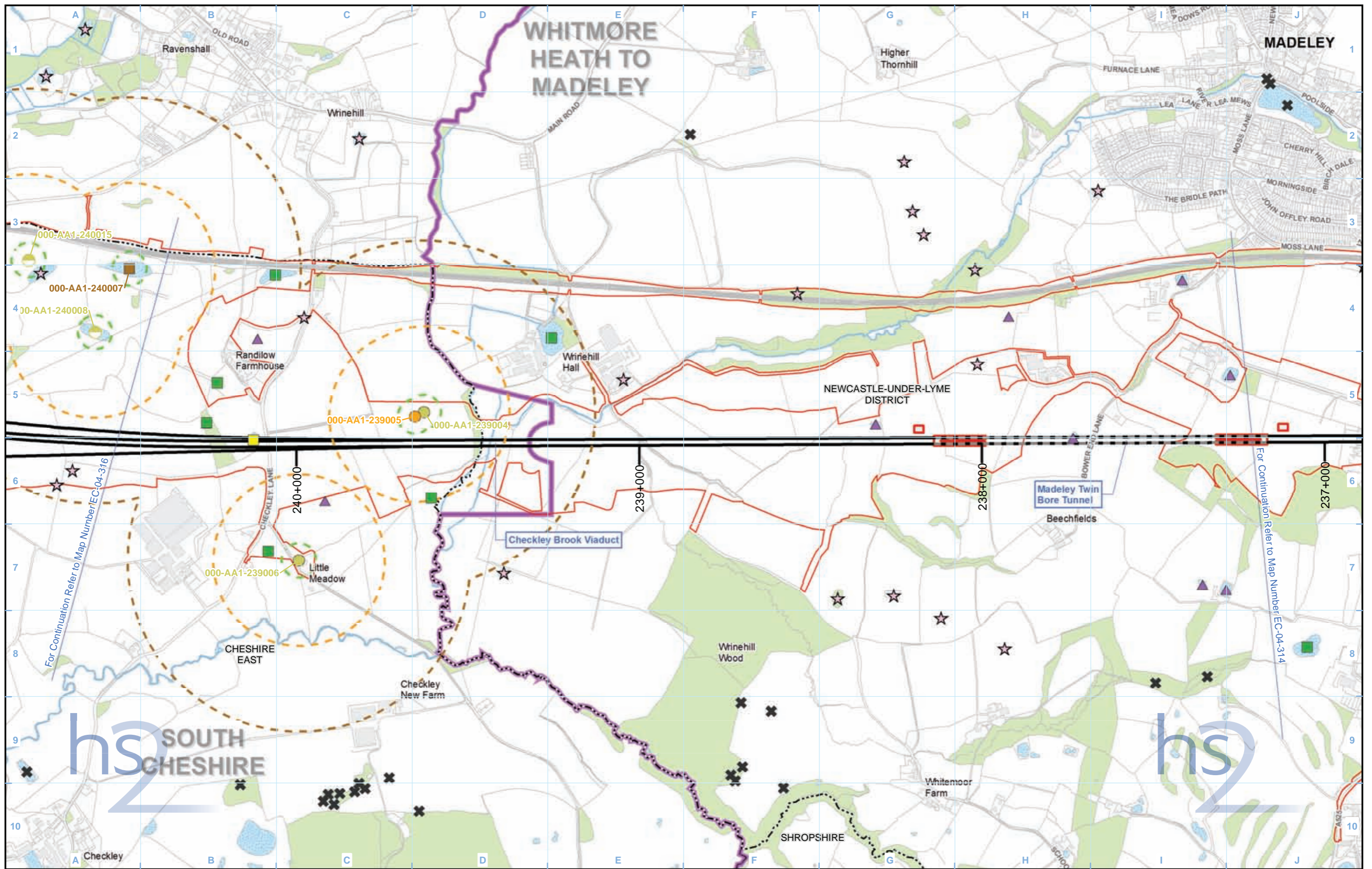
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Doc Number: C861-ARP-EV-MAP-000-074414-P03

Date: 14/06/17



<p><b>Legend</b></p> <ul style="list-style-type: none"> <li>Route in bored tunnel</li> <li>Route on surface</li> <li>Depot, station, headhouse or portal building</li> <li>Land potentially required during construction</li> <li>Community area boundary</li> <li>County boundary</li> </ul>	<ul style="list-style-type: none"> <li>District/Borough boundary</li> <li>Watercourse</li> <li>Water body</li> <li>Woodland (not verified by survey)</li> </ul>	<ul style="list-style-type: none"> <li>eDNA survey complete - result inconclusive</li> <li>eDNA survey complete - Great Crested Newts present</li> <li>eDNA survey complete - Great Crested Newts assumed absent</li> <li>Great Crested Newts present (6 visits) - small population (11 - 99 adults)</li> </ul>	<ul style="list-style-type: none"> <li>Great Crested Newts present (1 - 10 adults)</li> <li>Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)</li> <li>Scoped in - Habitat Suitability Index (HSI)/walkover only</li> <li>Scoped in - no access permission</li> </ul>	<ul style="list-style-type: none"> <li>Scoped out - no survey required</li> <li>50m radius from all water bodies where presence of Great Crested Newts is confirmed</li> <li>250m radius from all water bodies where presence of Great Crested Newts is confirmed</li> </ul>	<ul style="list-style-type: none"> <li>500m radius from all water bodies where presence of Great Crested Newts is confirmed</li> </ul>
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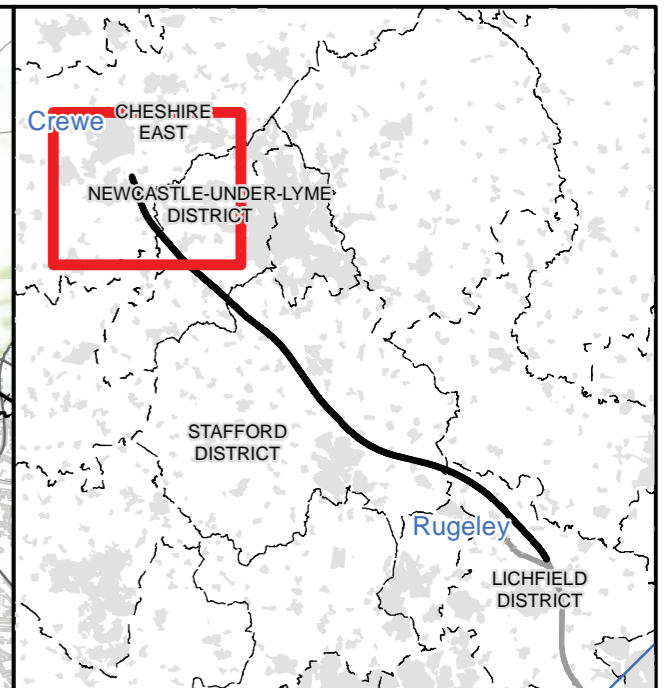
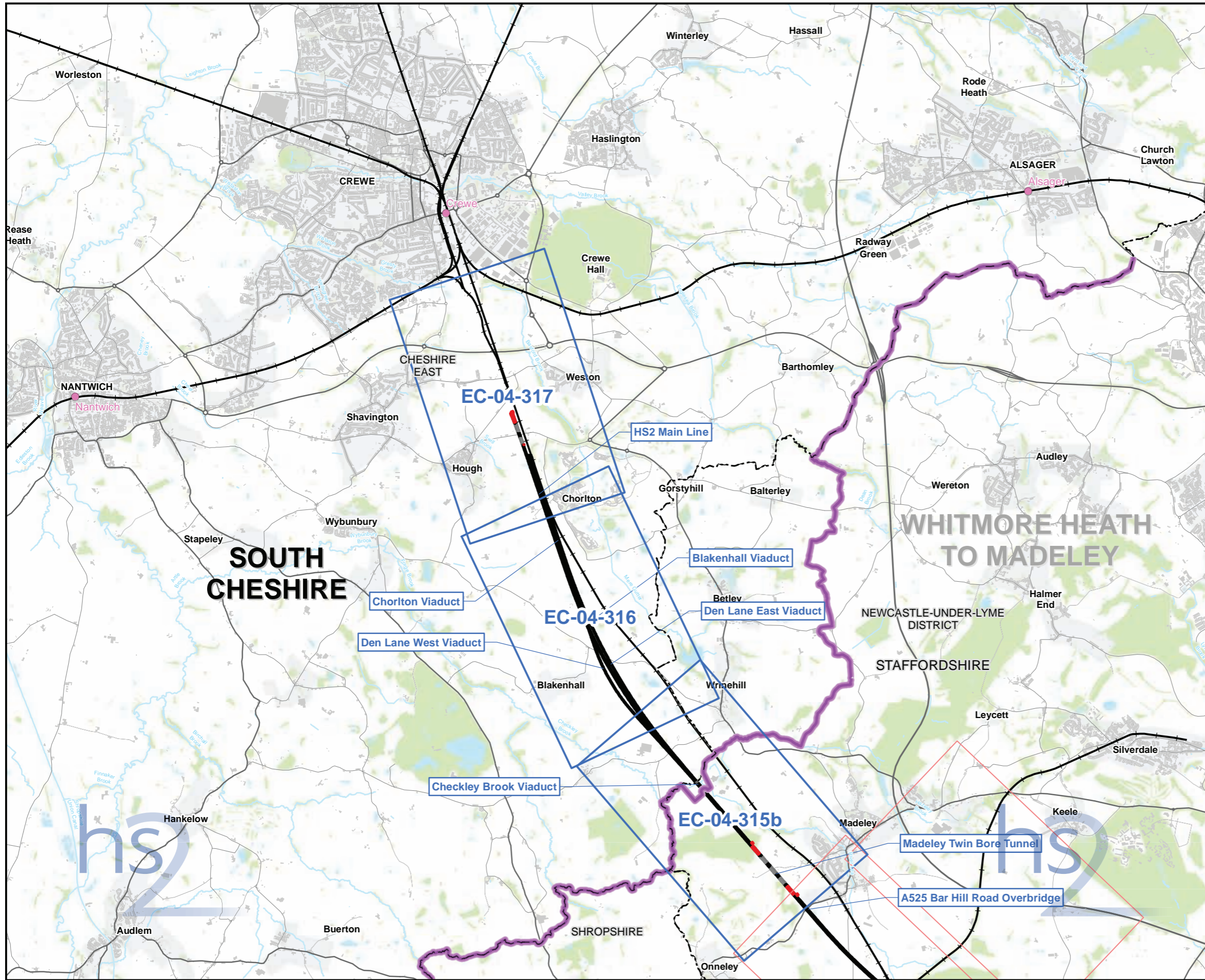
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**Map Series Information:**

This map series shows the results of amphibian surveys conducted to inform the Environmental Statement. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded

- Main Map Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Community area boundary
  - Existing railway station
  - County boundary
  - District/Borough boundary
  - Map sheets included in this community area
  - Map sheets not included in this community area

Map Number	EC-04-INDEX-CA5
Map Name	Index Map of: Amphibians
	Community Area 5: South Cheshire

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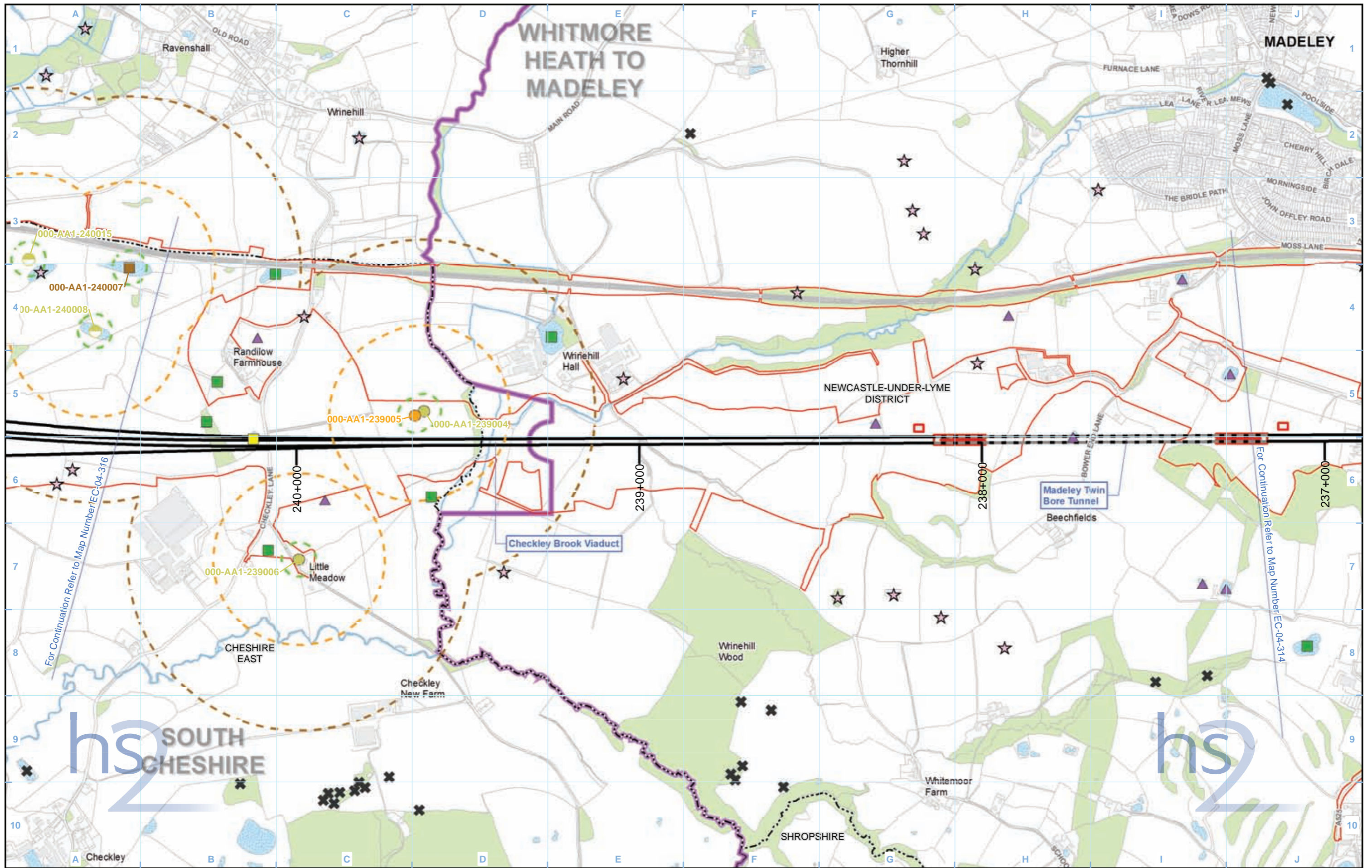
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0 600 1,200 1,800 2,400 Metres

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Doc Number: C861-ARP-EV-MAP-000-074005-P03 Date: 14/06/17



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - result inconclusive
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-315b
Map Name	Amphibians
Community Area	Community Area 5: South Cheshire

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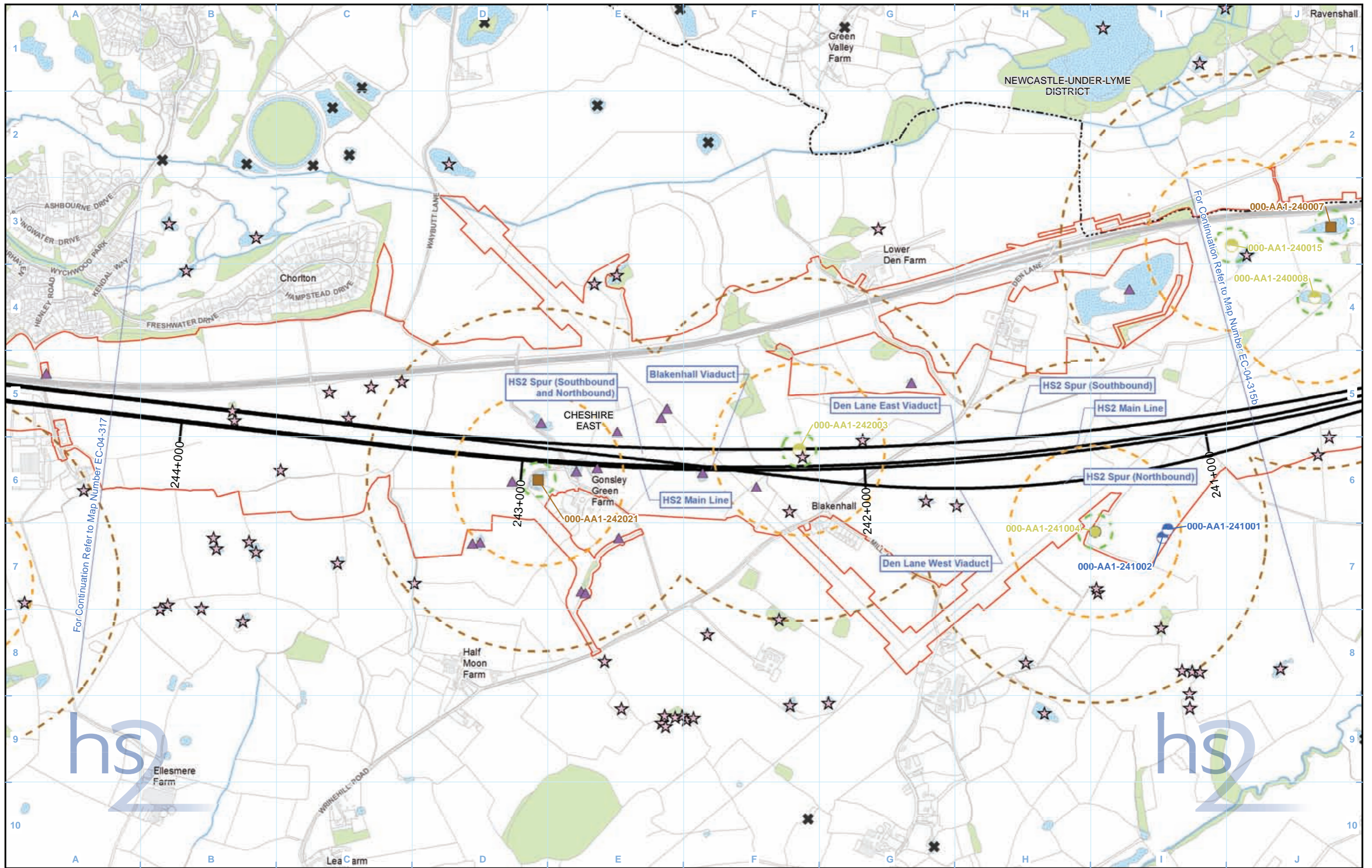
Scale at A3: 1:10,000

Metres

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Doc Number: C861-ARP-EV-MAP-000-074515-P03

Date: 14/06/17



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - Great Crested Newts present
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)
	Great Crested Newts confirmed present - no size class determined
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-316
Map Name	Amphibians
Community Area 5: South Cheshire	

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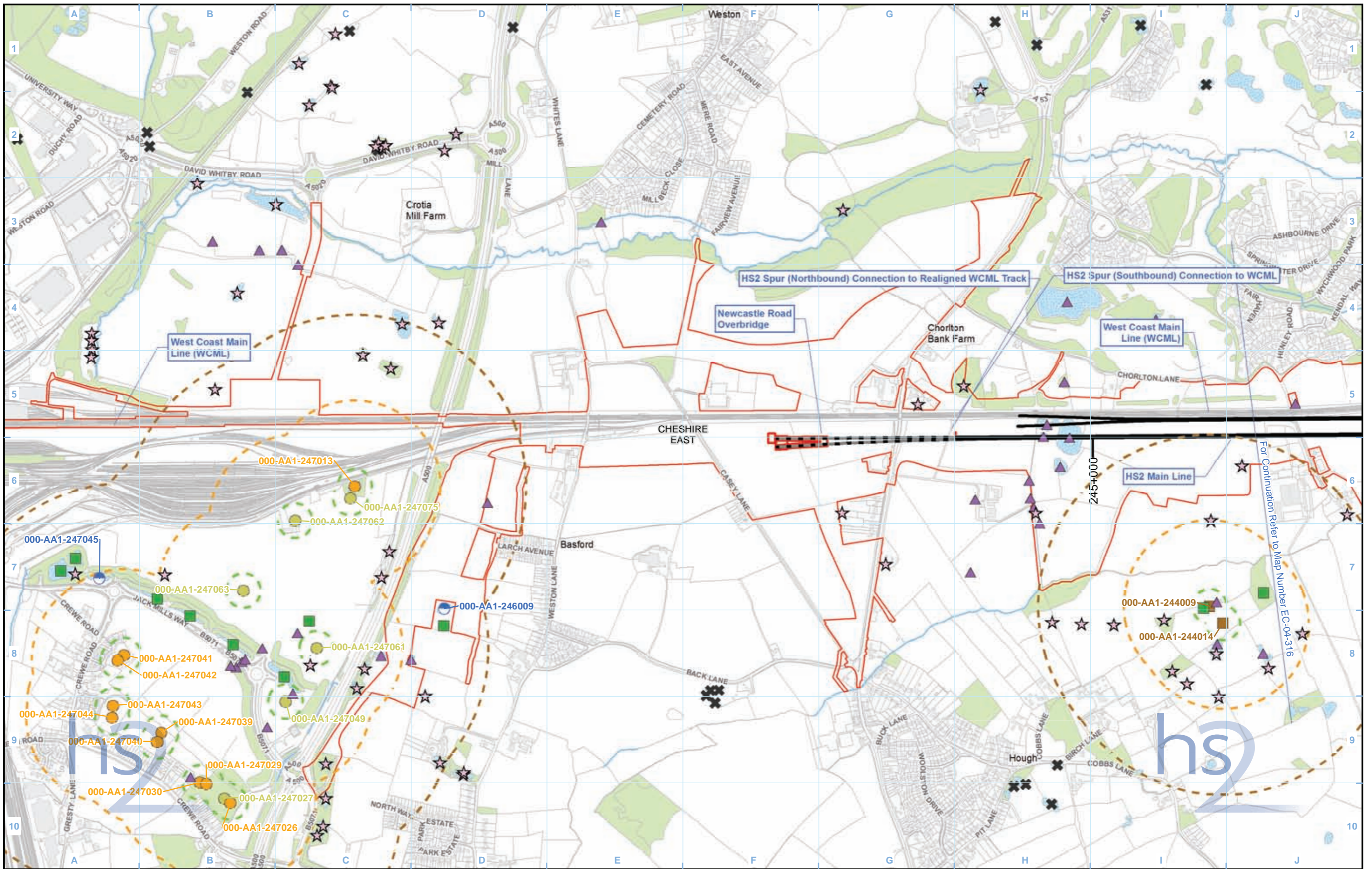
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Doc Number: C861-ARP-EV-MAP-000-074316-P03

Date: 14/06/17



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - Great Crested Newts present (1 - 10 adults)
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Great Crested Newts confirmed present - no size class determined
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-317
Map Name	Amphibians
Community Area	Community Area 5: South Cheshire

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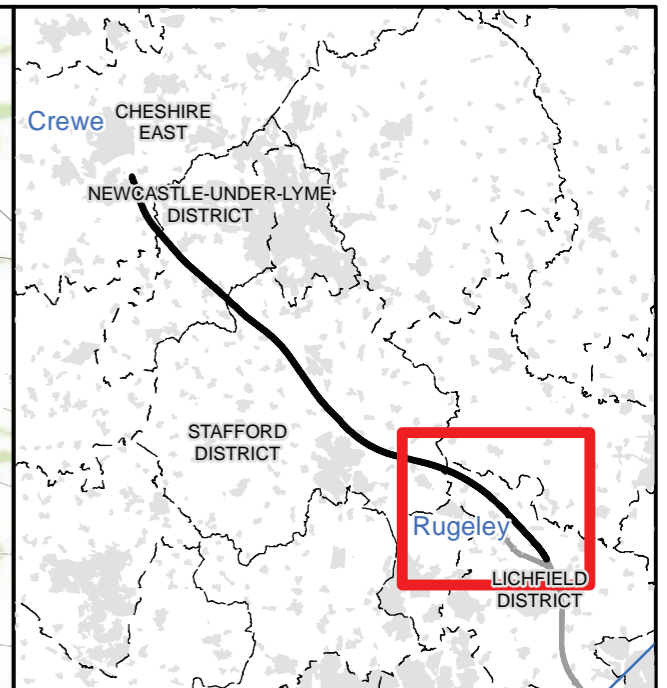
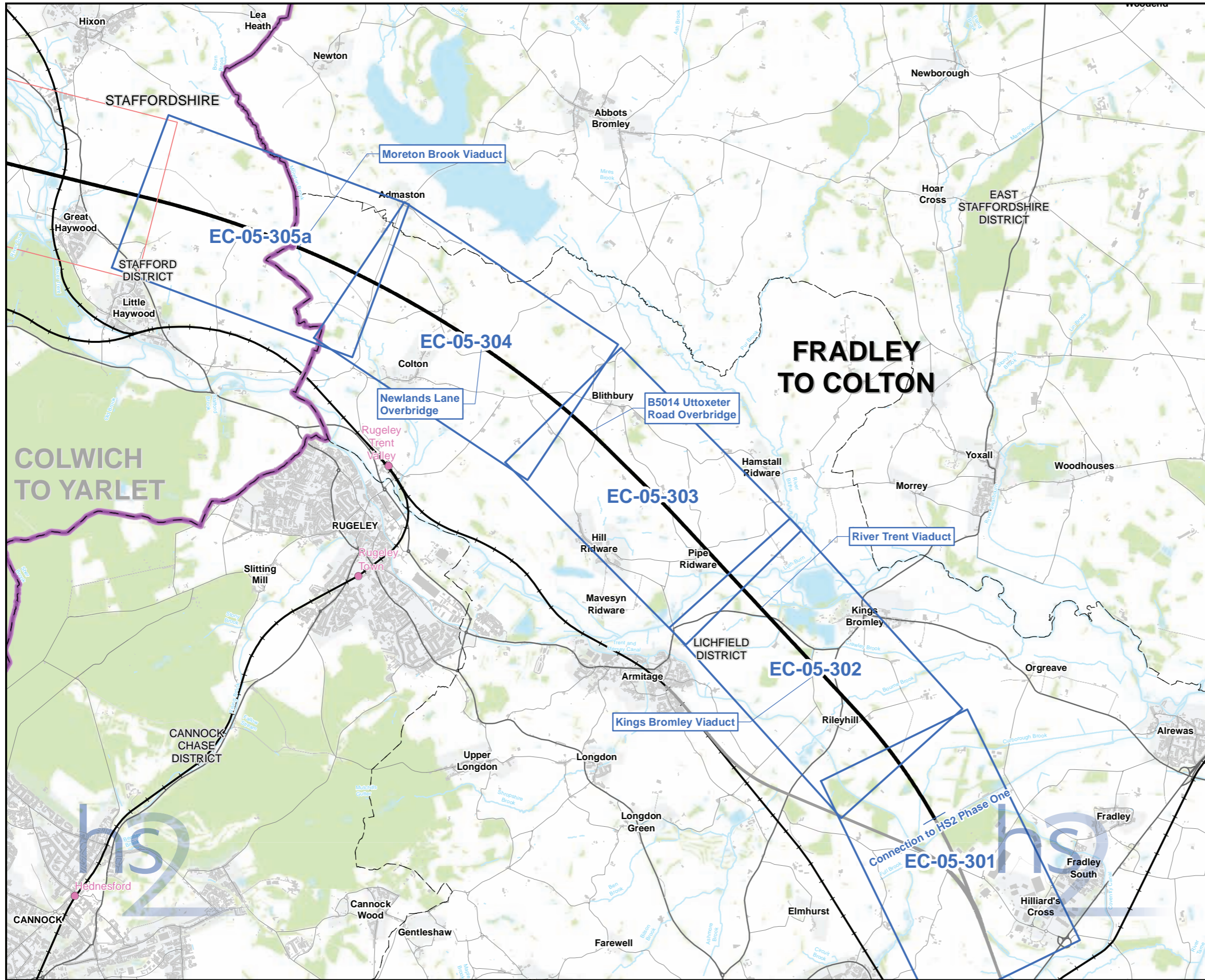
Doc Number: C861-ARP-EV-MAP-000-074317-P03

Date: 14/06/17

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High Speed Two Phase 2a (West Midlands-Crewe)  
Background Information and Data  
**EC-05 – Bat - Roost**



**Map Series Information:**

This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by field survey and features identified as having a high or moderate potential to support roosting bats.

Note: Not all data layers in the legend are represented on every map.

**Main Map Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number	EC-05-INDEX-CA1
Map Name	Index Map of: Bat - Roost
Community Area 1:	Fradley to Colton

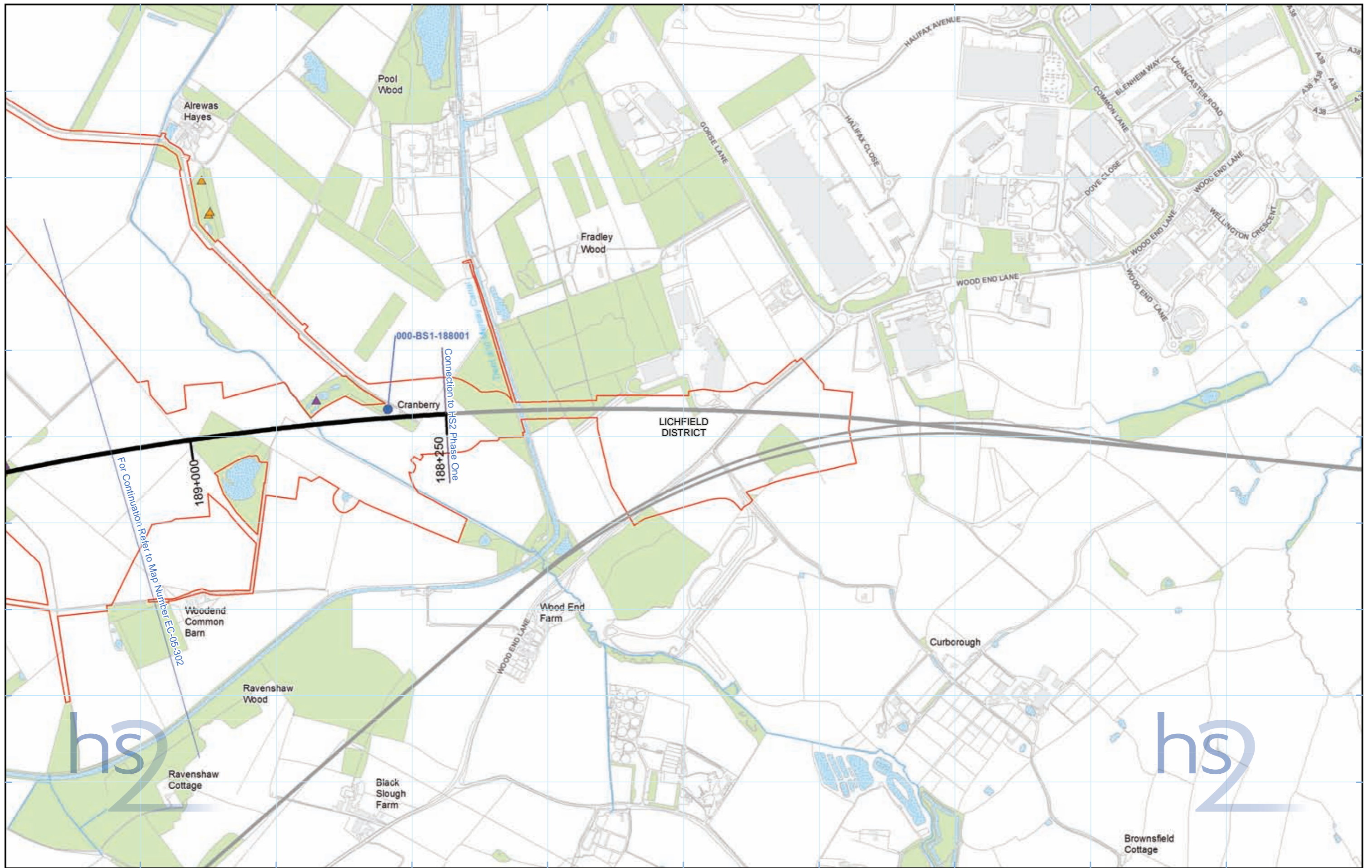
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Doc Number: C861-ARP-EV-MAP-000-075001-P03 Date: 14/06/17



**Legend**

	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary

	Watercourse
	Water body
	Woodland (not verified by survey)

	Confirmed bat roost - trees:		Confirmed bat roost - building:
	Hibernation roost		Hibernation roost
	Maternity roost		Maternity roost
	Other roost		Other roost
	Multiple roost types		Multiple roost types

	Potential to support roosting bats - buildings:
	High
	Moderate
	Potential to support roosting bats - trees:
	High
	Moderate

Map Number	EC-05-301
Map Name	Bat - Roost
Community Area CA1: Fradley to Colton	

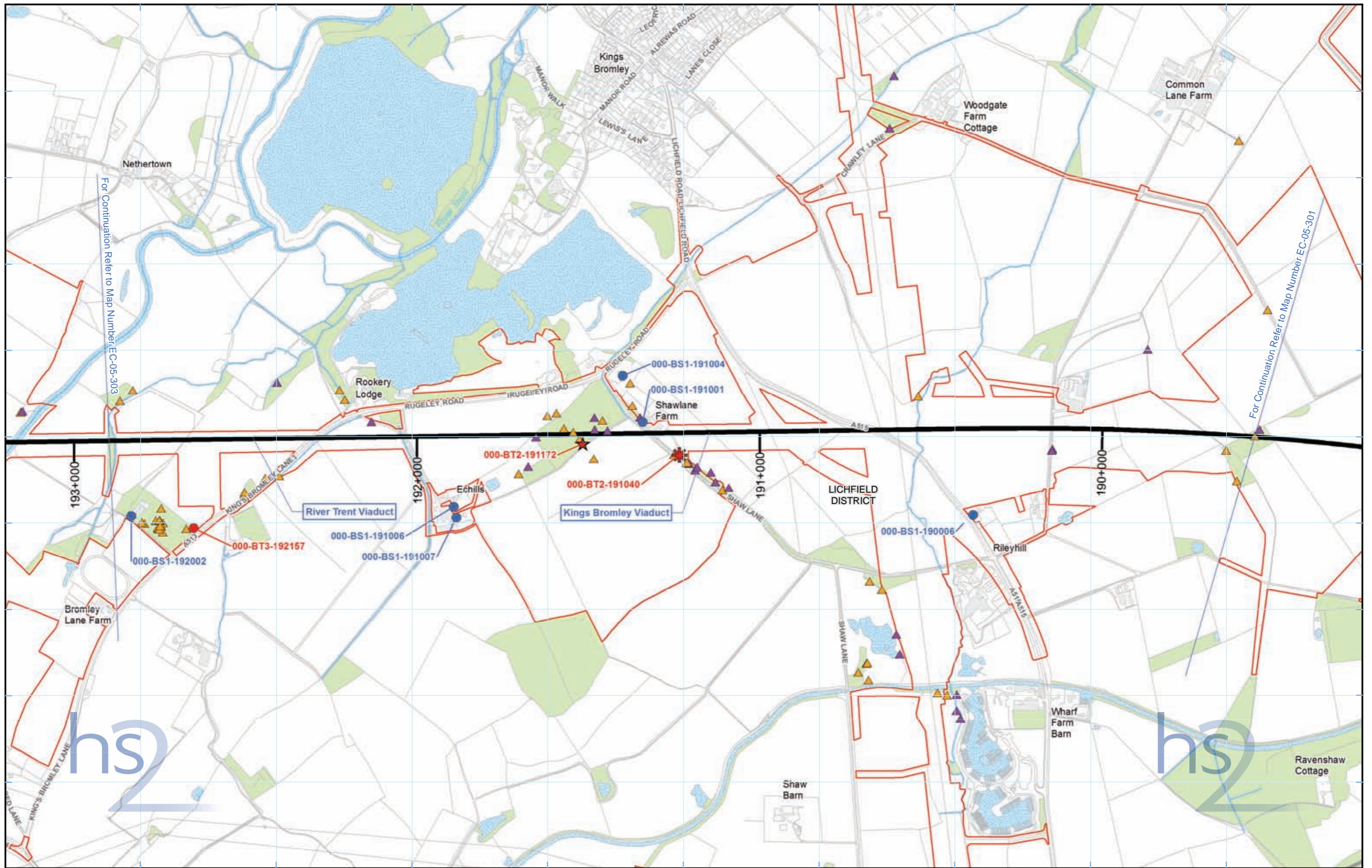
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**Legend**

	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (not verified by survey)
	Land potentially required during construction		
	Community area boundary		
	County boundary		
	District/Borough boundary		

	Confirmed bat roost - trees:		Confirmed bat roost - building:
	Confirmed bat roost - trees:		Confirmed bat roost - building:
	Confirmed bat roost - trees:		Confirmed bat roost - building:
	Confirmed bat roost - trees:		Confirmed bat roost - building:

	Potential to support roosting bats - buildings:
	Potential to support roosting bats - buildings:
	Potential to support roosting bats - trees:
	Potential to support roosting bats - trees:

Map Number	EC-05-302
Map Name	Bat - Roost
	Community Area CA1: Fradley to Colton

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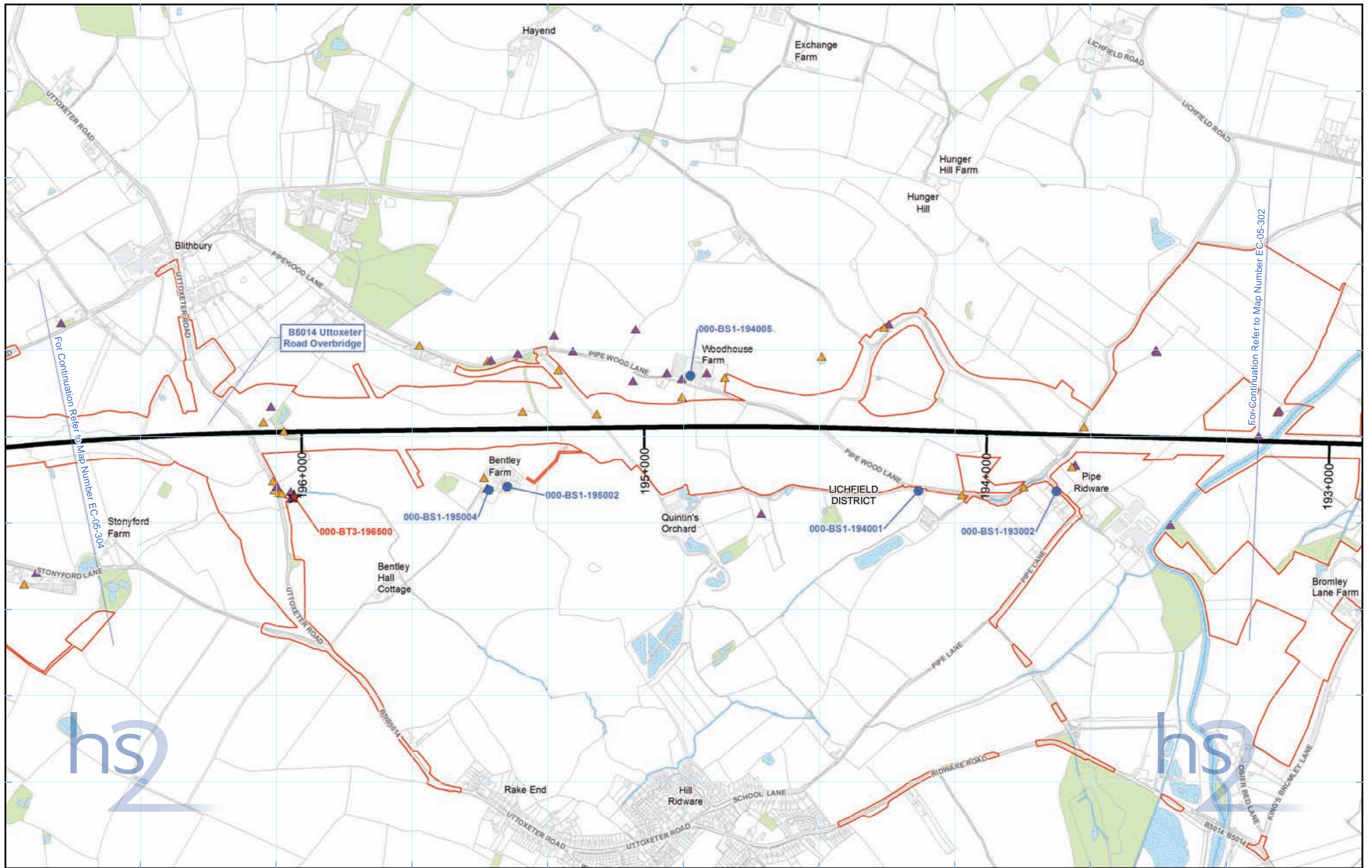
Doc Number: C861-ARP-EV-MAP-000-075302-P03

Scale at A3: 1:10,000

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**Legend**

	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary

	Watercourse
	Water body
	Woodland (not verified by survey)

<b>Confirmed bat roost - trees:</b>	<b>Confirmed bat roost - building:</b>	<b>Potential to support roosting bats - buildings:</b>
Hibernation roost	Hibernation roost	High
Maternity roost	Maternity roost	Moderate
Other roost	Other roost	<b>Potential to support roosting bats - trees:</b>
Multiple roost types	Multiple roost types	High
		Moderate

Map Number	EC-05-303
Map Name	Bat - Roost
	Community Area CA1: Fradley to Colton

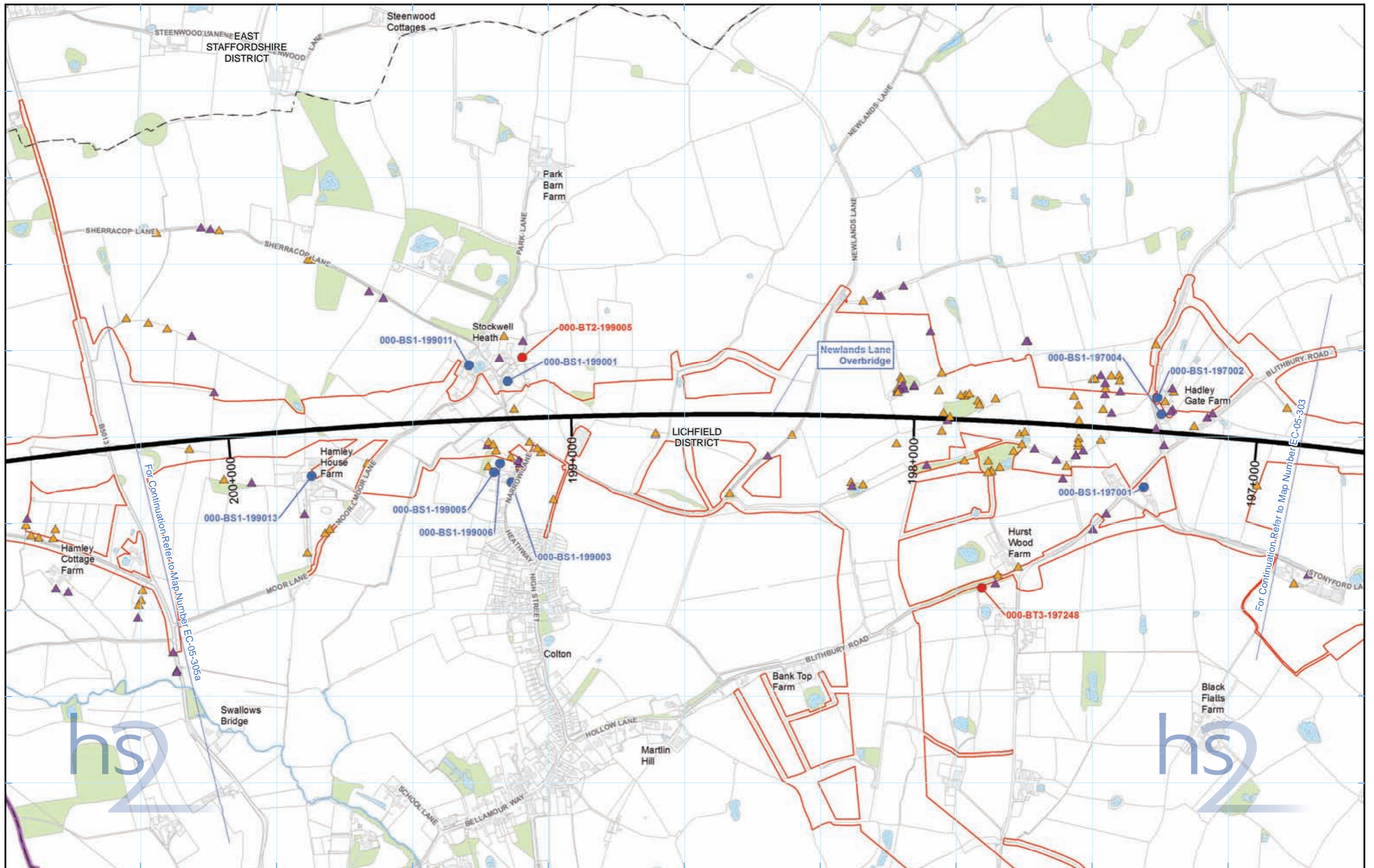
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Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in bored tunnel		Hibernation roost		Hibernation roost		High
	Route on surface		Maternity roost		Maternity roost		Moderate
	Depot, station, headhouse or portal building		Other roost		Other roost		High
	Land potentially required during construction		Multiple roost types		Multiple roost types		Moderate
	Community area boundary						
	County boundary						
	District/Borough boundary						
	Watercourse						
	Water body						
	Woodland (not verified by survey)						


Map Number	EC-05-304
Map Name	Bat - Roost
Community Area CA1: Fradley to Colton	


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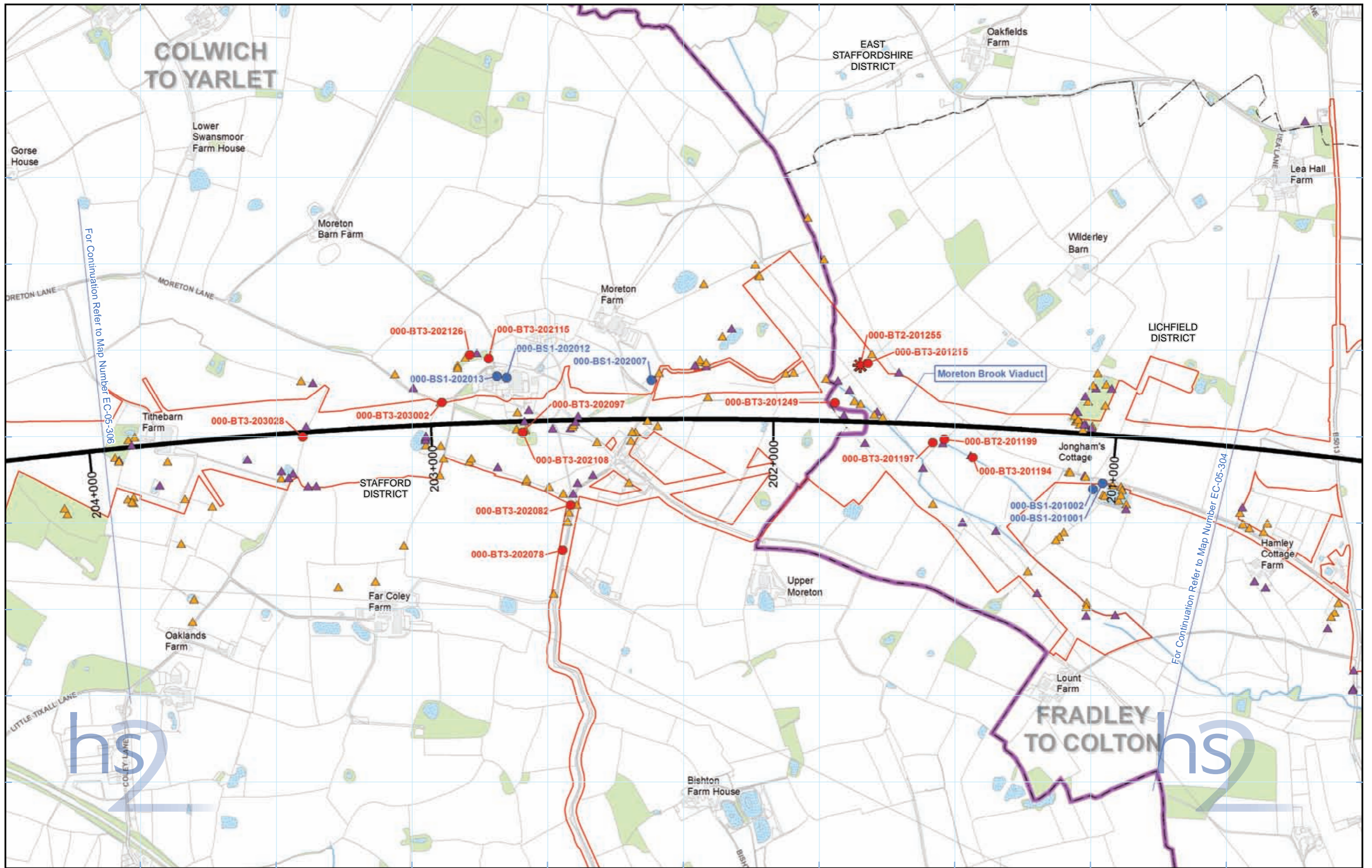
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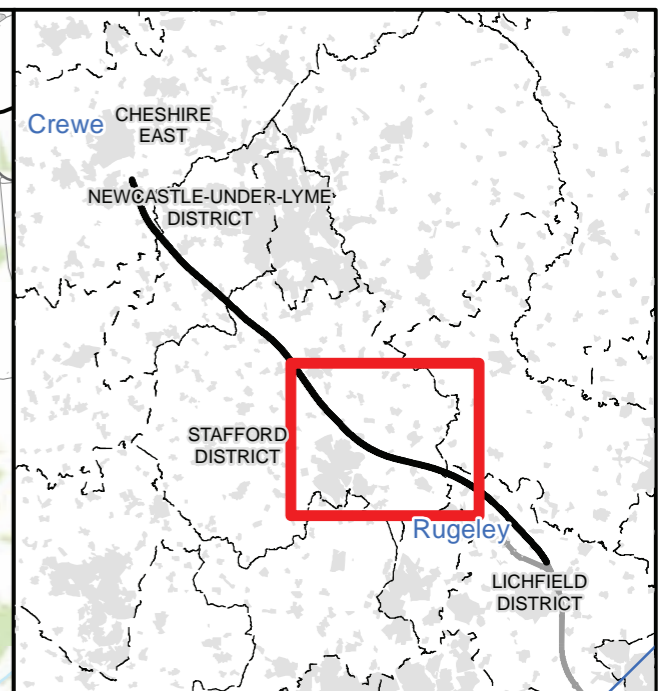
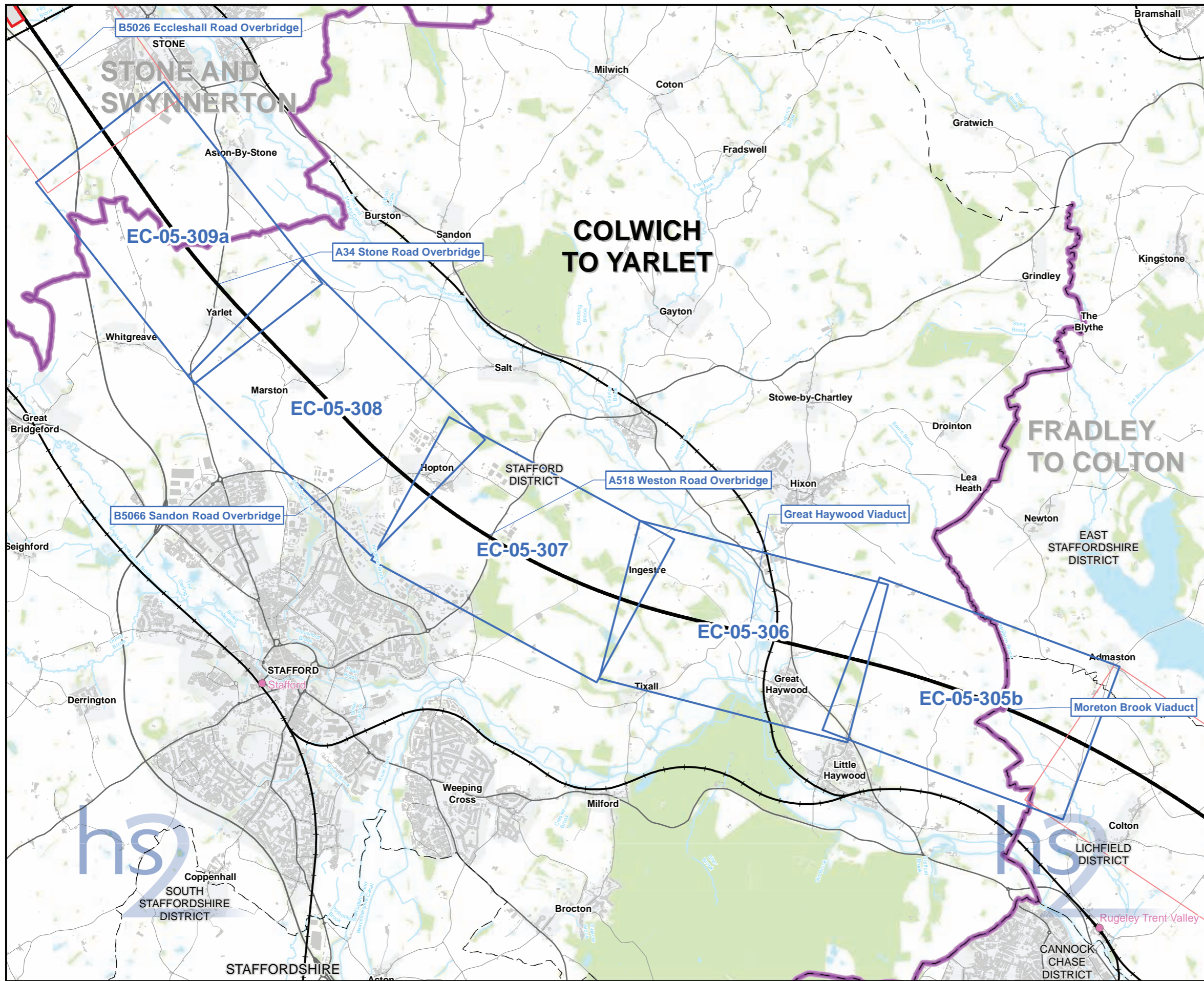


Doc Number: C861-ARP-EV-MAP-000-075304-P03

Date: 14/06/17



<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland (not verified by survey)		<b>Confirmed bat roost - trees:</b> Hibernation roost Maternity roost Other roost Multiple roost types		<b>Confirmed bat roost - building:</b> Hibernation roost Maternity roost Other roost Multiple roost types		<b>Potential to support roosting bats - buildings:</b> High Moderate <b>Potential to support roosting bats - trees:</b> High Moderate	
Map Number <b>EC-05-305a</b>				HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.			
Map Name <b>Bat - Roost</b>		Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.		Scale at A3: 1:10,000 		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.	
Community Area CA1: Fradley to Colton		Doc Number: C861-ARP-EV-MAP-000-075305-P03		Date: 14/06/17			



**Map Series Information:**

This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by field survey and features identified as having a high or moderate potential to support roosting bats.

**Main Map Legend**

Route in tunnel	Map sheets included in this community area
Route on surface	Map sheets not included in this community area
Depot, station, headhouse or portal building	Existing railway station
Community area boundary	County boundary
Existing railway station	District/Borough boundary

Map Number	EC-05-INDEX-CA2
Map Name	Index Map of: Bat - Roost
Community Area 2:	Colwich to Yarlet

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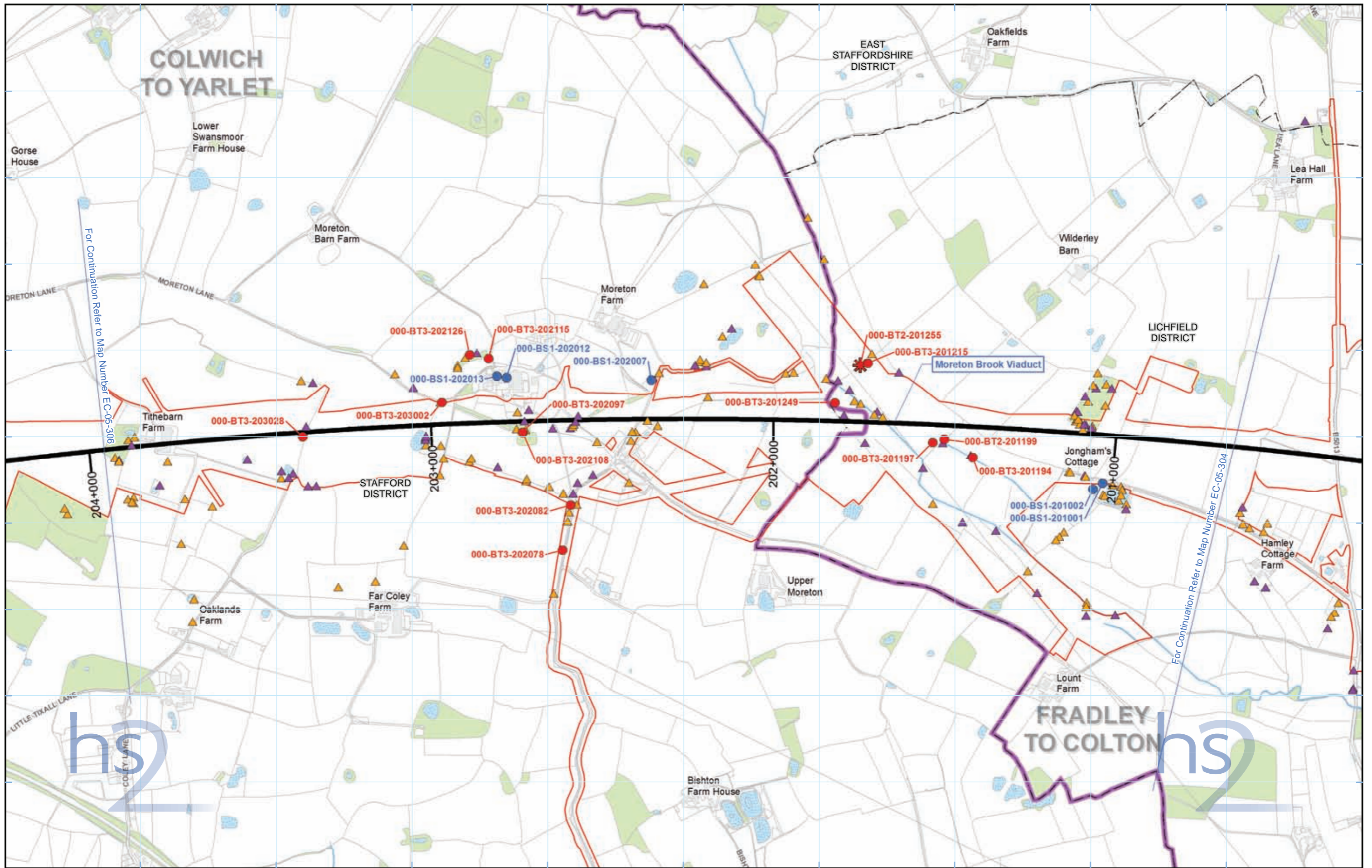
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Doc Number: C861-ARP-EV-MAP-000-075002-P03 **Date: 14/06/17**





**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland (not verified by survey)

**Confirmed bat roost - trees:**

- Hibernation roost
- Maternity roost
- Other roost
- Multiple roost types

**Confirmed bat roost - building:**

- Hibernation roost
- Maternity roost
- Other roost
- Multiple roost types

**Potential to support roosting bats - buildings:**

- High
- Moderate

**Potential to support roosting bats - trees:**

- High
- Moderate

Map Number: EC-05-305b

Map Name: Bat - Roost

Community Area CA2: Colwich to Yarlet

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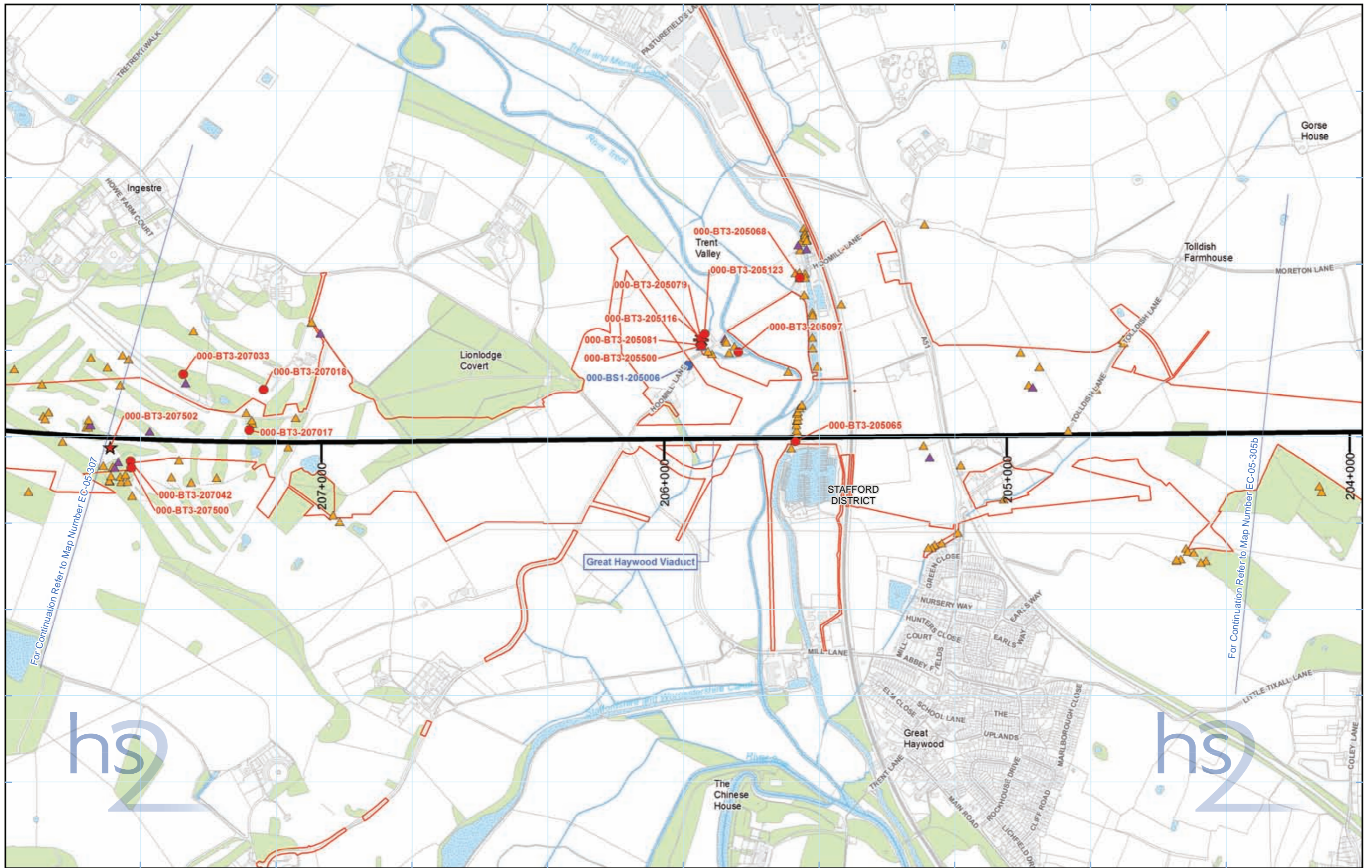
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Doc Number: C861-ARP-EV-MAP-000-075605-P03

Date: 14/06/17



Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in bored tunnel		Hibernation roost		Hibernation roost		High
	Route on surface		Maternity roost		Maternity roost		Moderate
	Depot, station, headhouse or portal building		Other roost		Other roost		High
	Land potentially required during construction		Multiple roost types		Multiple roost types		Moderate
	Community area boundary						
	County boundary						
	District/Borough boundary						
	Watercourse						
	Water body						
	Woodland (not verified by survey)						

Map Number	EC-05-306
Map Name	Bat - Roost
	Community Area CA2: Colwich to Yarlet

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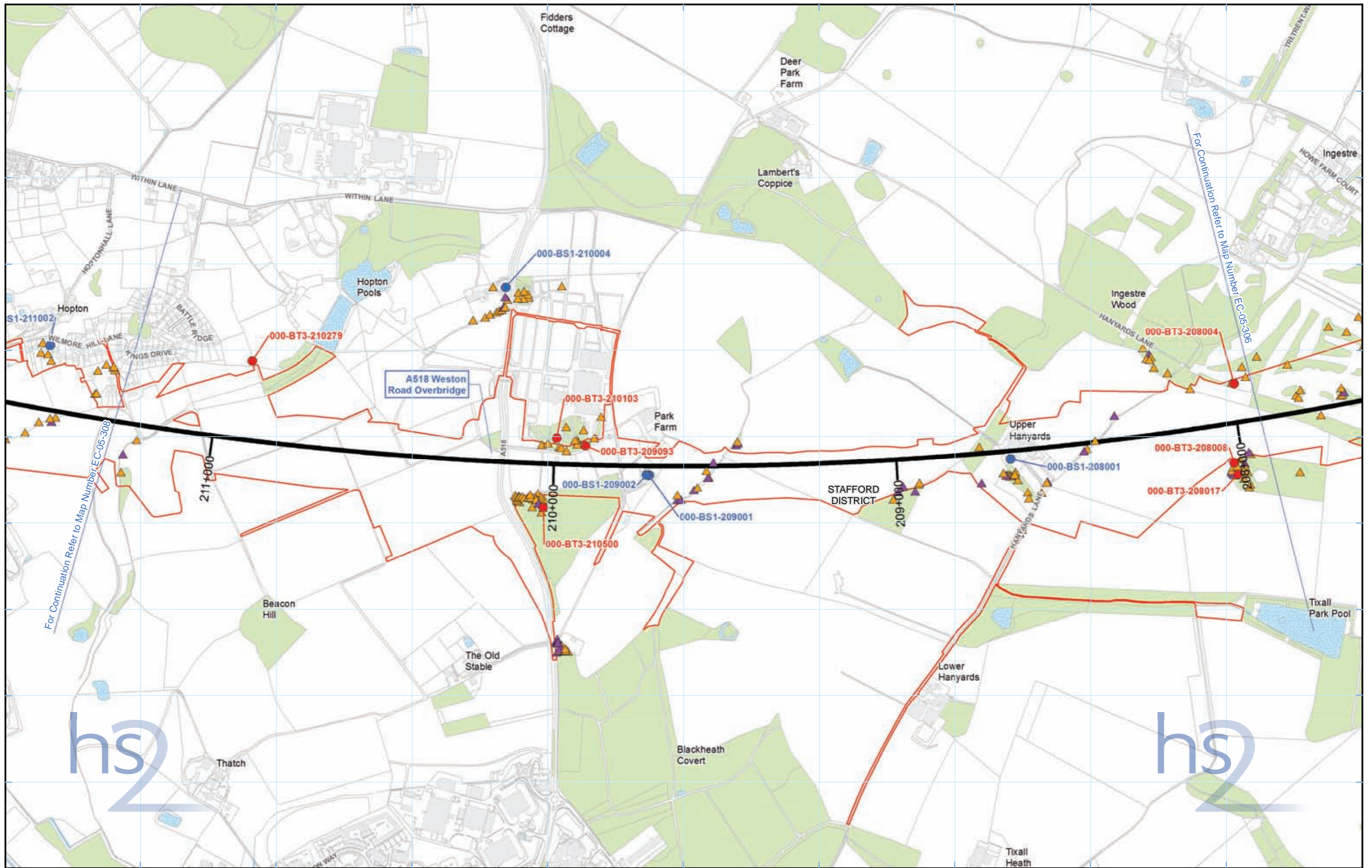
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Doc Number: C861-ARP-EV-MAP-000-075306-P03

Date: 14/06/17



Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in bored tunnel		Hibernation roost		Hibernation roost		High
	Route on surface		Maternity roost		Maternity roost		Moderate
	Depot, station, headhouse or portal building		Other roost		Other roost		High
	Land potentially required during construction		Multiple roost types		Multiple roost types		Moderate
	Community area boundary						
	County boundary						
	District/Borough boundary						
	Watercourse						
	Water body						
	Woodland (not verified by survey)						


Map Number	EC-05-307
Map Name	Bat - Roost
	Community Area CA2: Colwich to Yarlet


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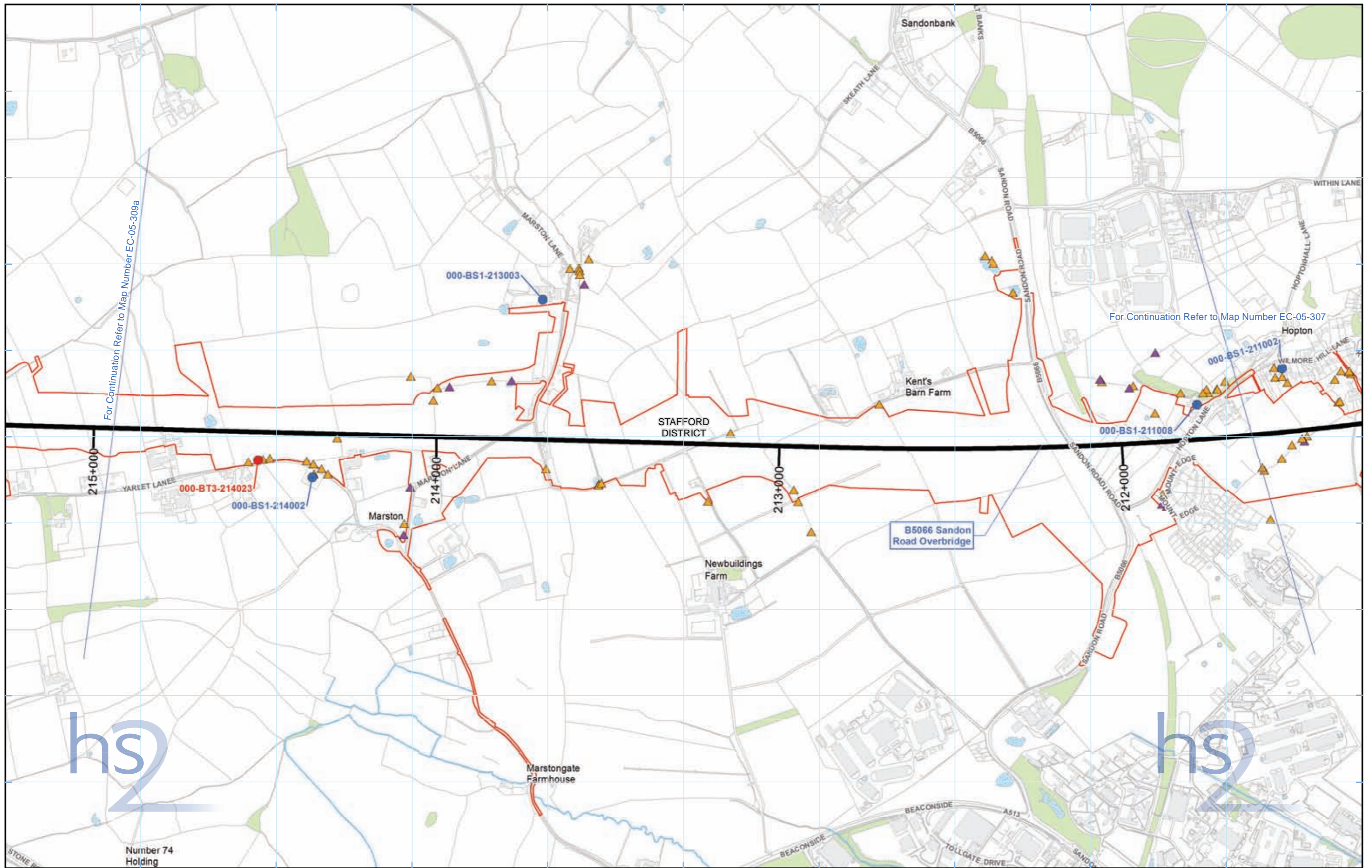
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Doc Number: C861-ARP-EV-MAP-000-075307-P03

Date: 14/06/17



For Continuation Refer to Map Number EC-05-309a

For Continuation Refer to Map Number EC-05-307



Number 74 Holding

Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in bored tunnel		Hibernation roost		Hibernation roost		High
	Route on surface		Maternity roost		Maternity roost		Moderate
	Depot, station, headhouse or portal building		Other roost		Other roost		High
	Land potentially required during construction		Multiple roost types		Multiple roost types		Moderate
	Community area boundary						
	County boundary						
	District/Borough boundary						
	Watercourse						
	Water body						
	Woodland (not verified by survey)						

Map Number	EC-05-308
Map Name	Bat - Roost
	Community Area CA2: Colwich to Yarlet

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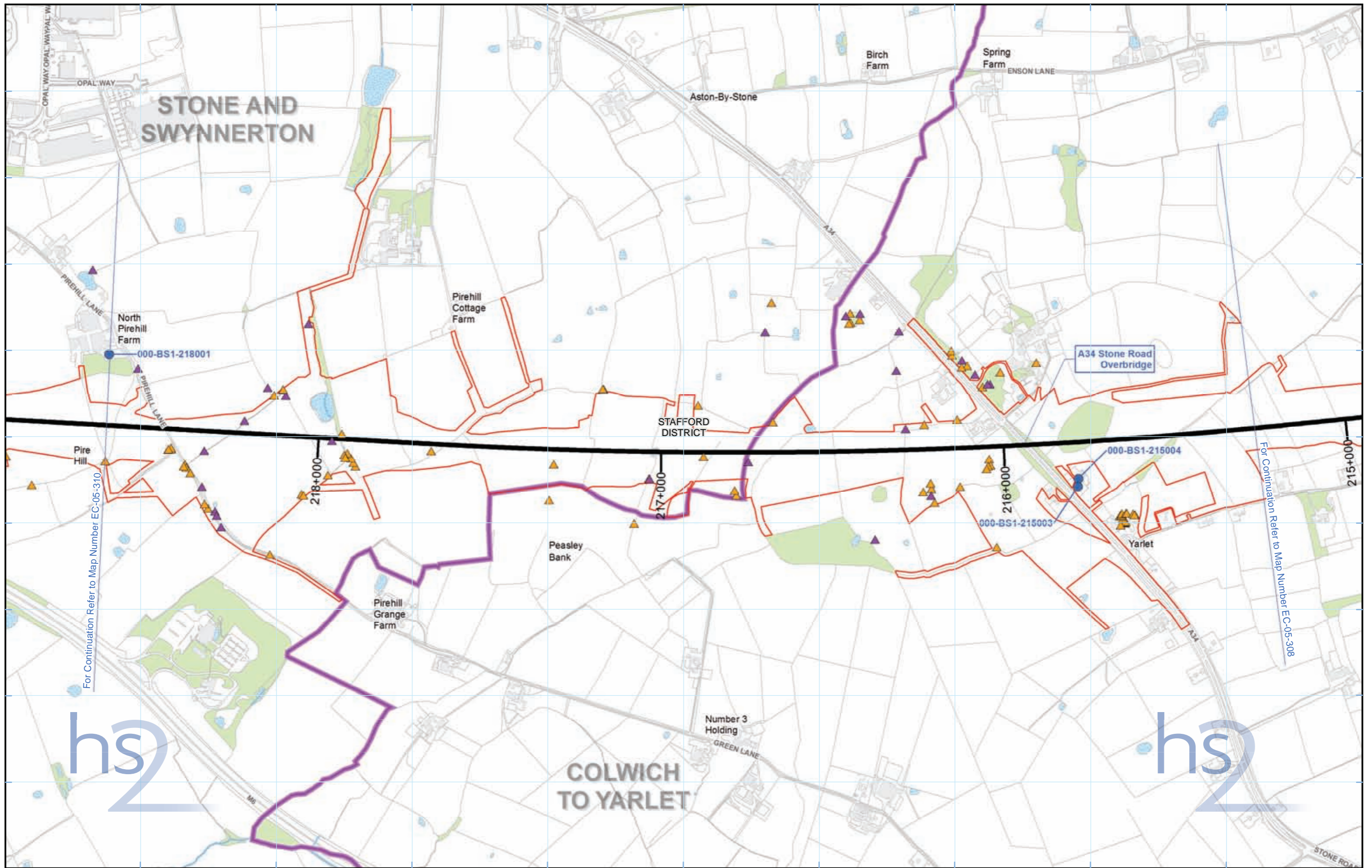
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Doc Number: C861-ARP-EV-MAP-000-075308-P03

Date: 14/06/17



**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland (not verified by survey)

**Confirmed bat roost - trees:**

- Hibernation roost
- Maternity roost
- Other roost
- Multiple roost types

**Confirmed bat roost - building:**

- Hibernation roost
- Maternity roost
- Other roost
- Multiple roost types

**Potential to support roosting bats - buildings:**

- High
- Moderate

**Potential to support roosting bats - trees:**

- High
- Moderate

Map Number	EC-05-309a
Map Name	Bat - Roost
Community Area CA2:	Colwich to Yarlet

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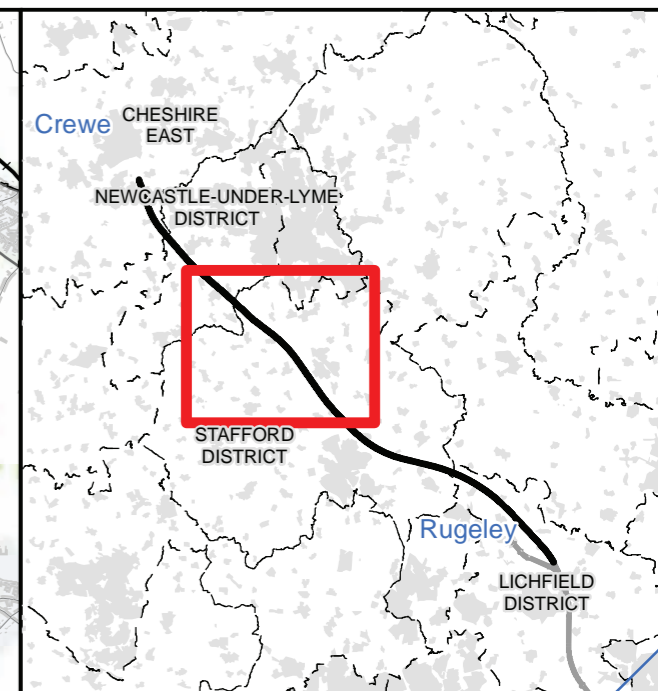
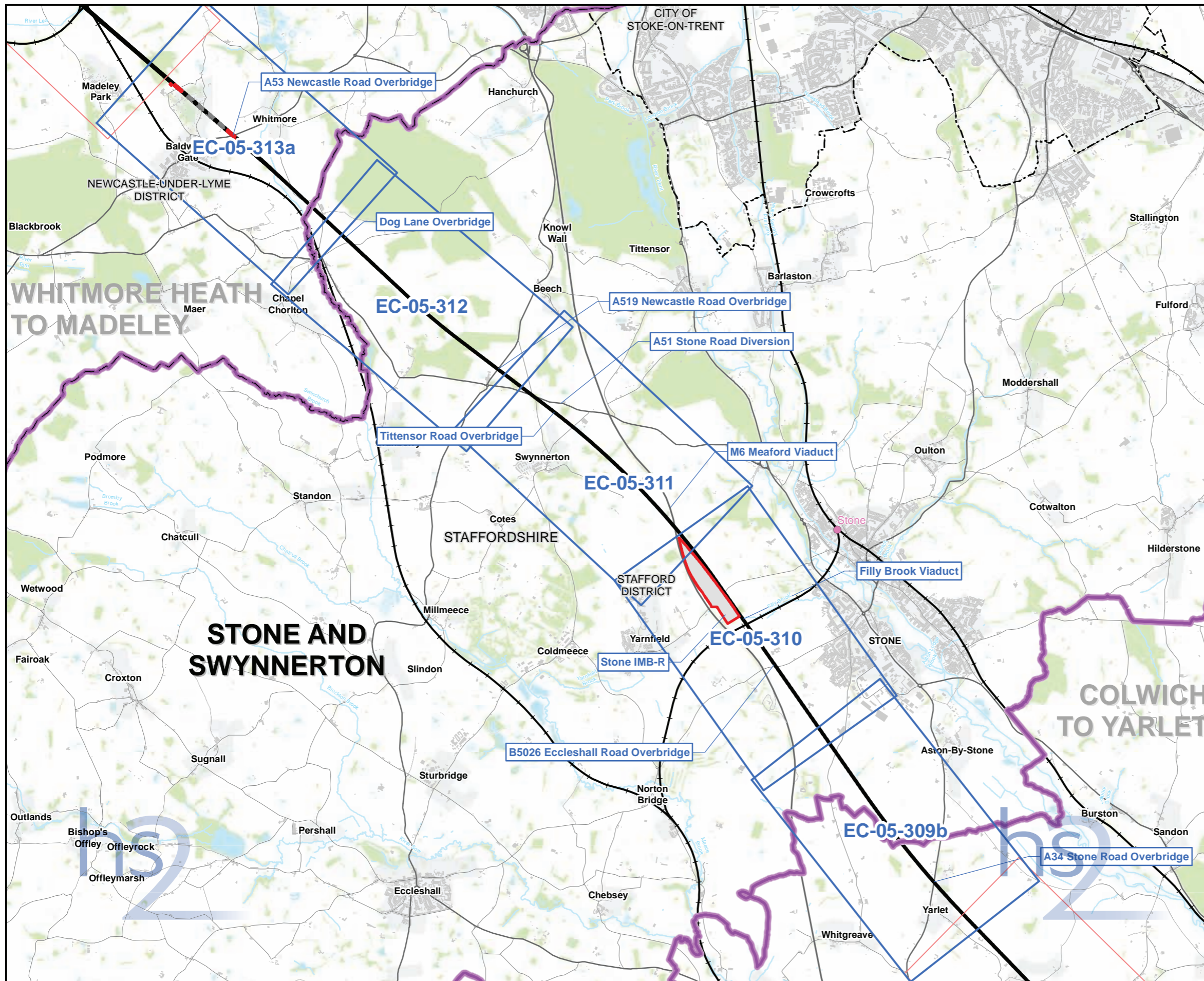
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Doc Number: C861-ARP-EV-MAP-000-075309-P03 Date: 14/06/17



### Map Series Information:

This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by field survey and features identified as having a high or moderate potential to support roosting bats.

**Main Map Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number	EC-05-INDEX-CA3
Map Name	Index Map of: Bat - Roost
Community Area 3: Stone and Swynnerton	

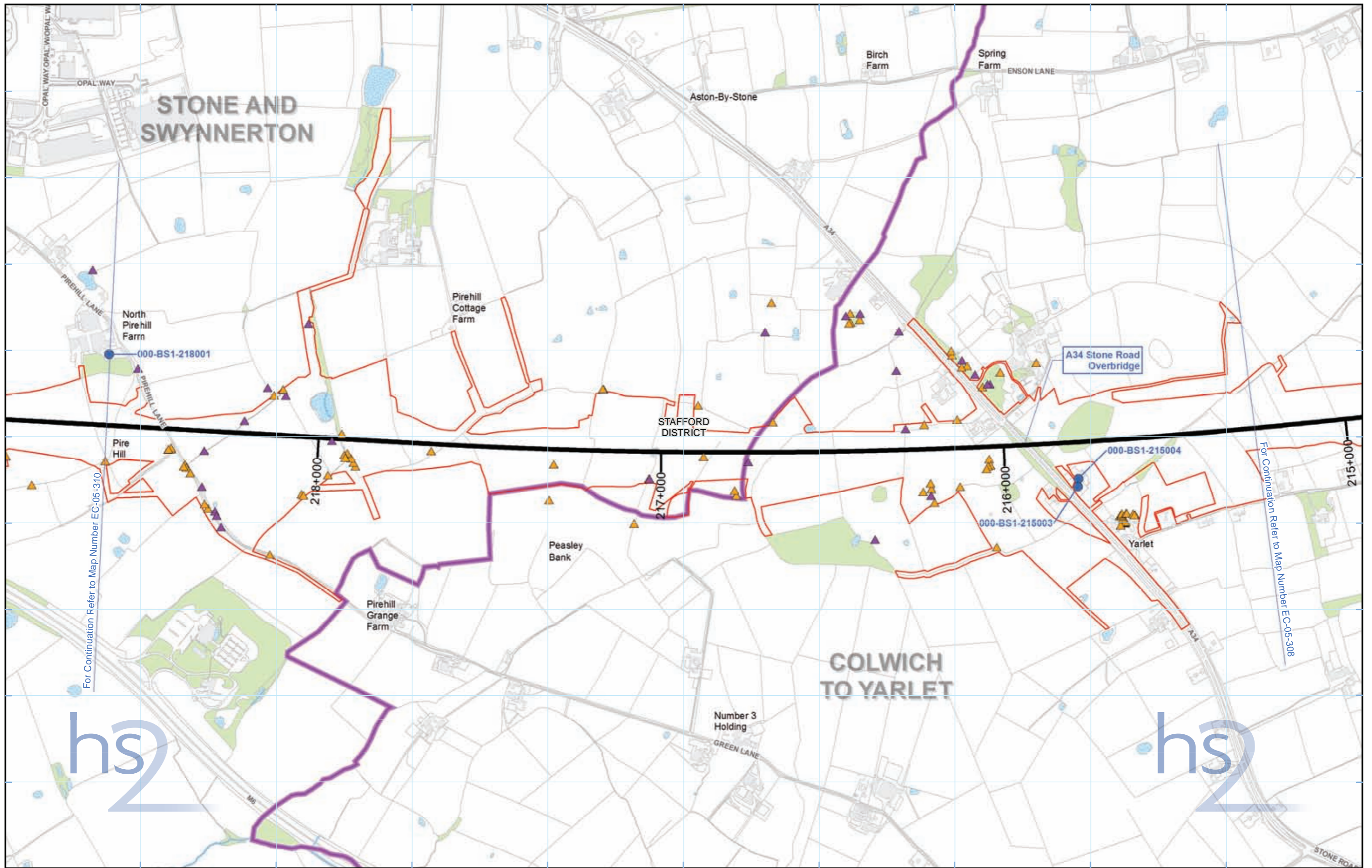
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Doc Number: C861-ARP-EV-MAP-000-075003-P03 Date: 14/06/17



Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
Route in bored tunnel	Watercourse	Hibernation roost	Hibernation roost	High		Moderate	
Route on surface	Water body	Maternity roost	Maternity roost	High		Moderate	
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Other roost	Other roost	High		Moderate	
Land potentially required during construction		Multiple roost types	Multiple roost types				
Community area boundary							
County boundary							
District/Borough boundary							

Map Number	EC-05-309b
Map Name	Bat - Roost
	Community Area CA3: Stone and Swynnerton

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0 100 200 300 400 Metres

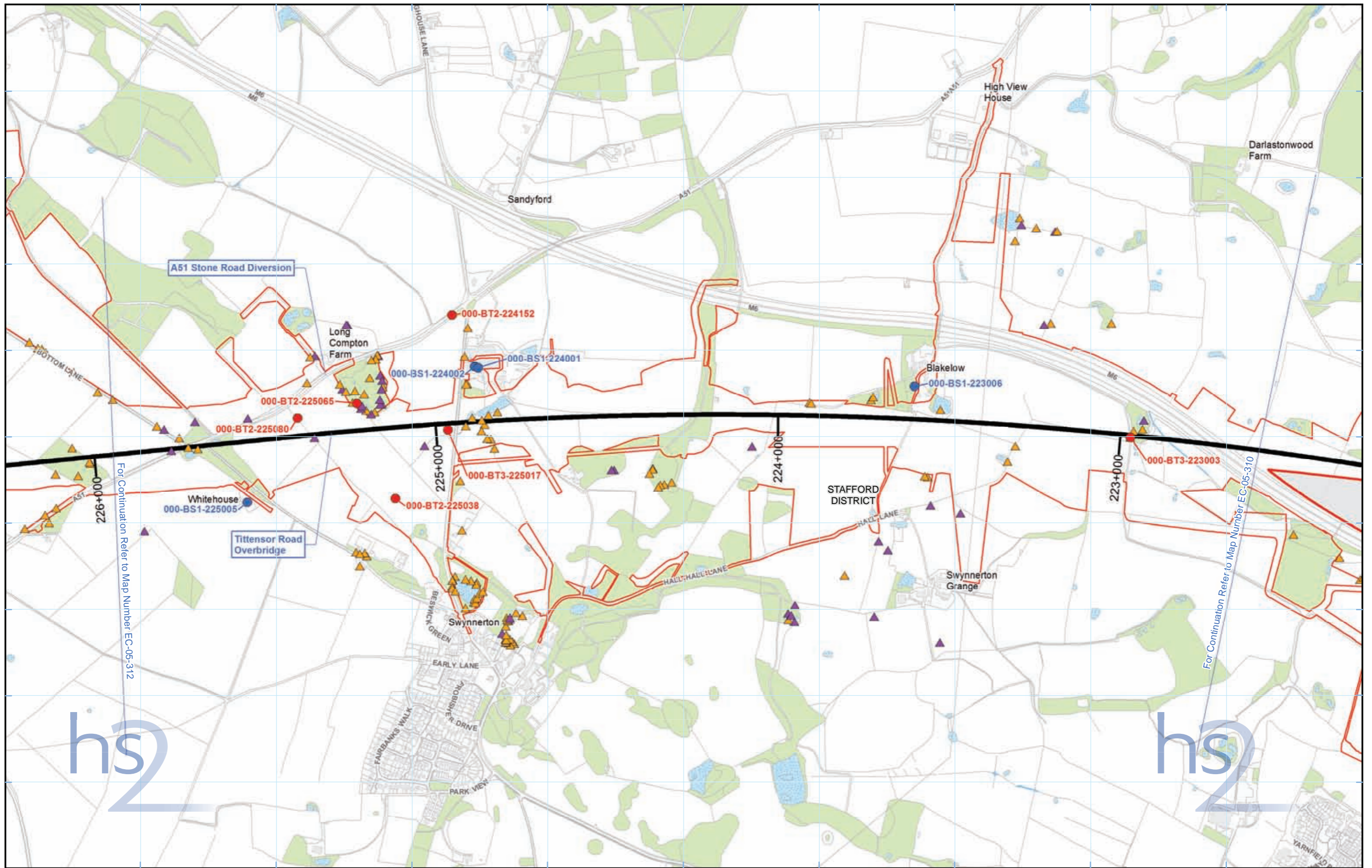
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Doc Number: C861-ARP-EV-MAP-000-075409-P03

Date: 14/06/17








Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in bored tunnel		Hibernation roost		Hibernation roost		High
	Route on surface		Maternity roost		Maternity roost		Moderate
	Depot, station, headhouse or portal building		Other roost		Other roost		High
	Land potentially required during construction		Multiple roost types		Multiple roost types		Moderate
	Community area boundary						
	County boundary						
	District/Borough boundary						
	Watercourse						
	Water body						
	Woodland (not verified by survey)						

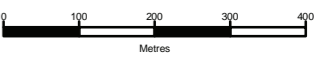
Map Number	EC-05-311
Map Name	Bat - Roost
	Community Area CA3: Stone and Swynnerton


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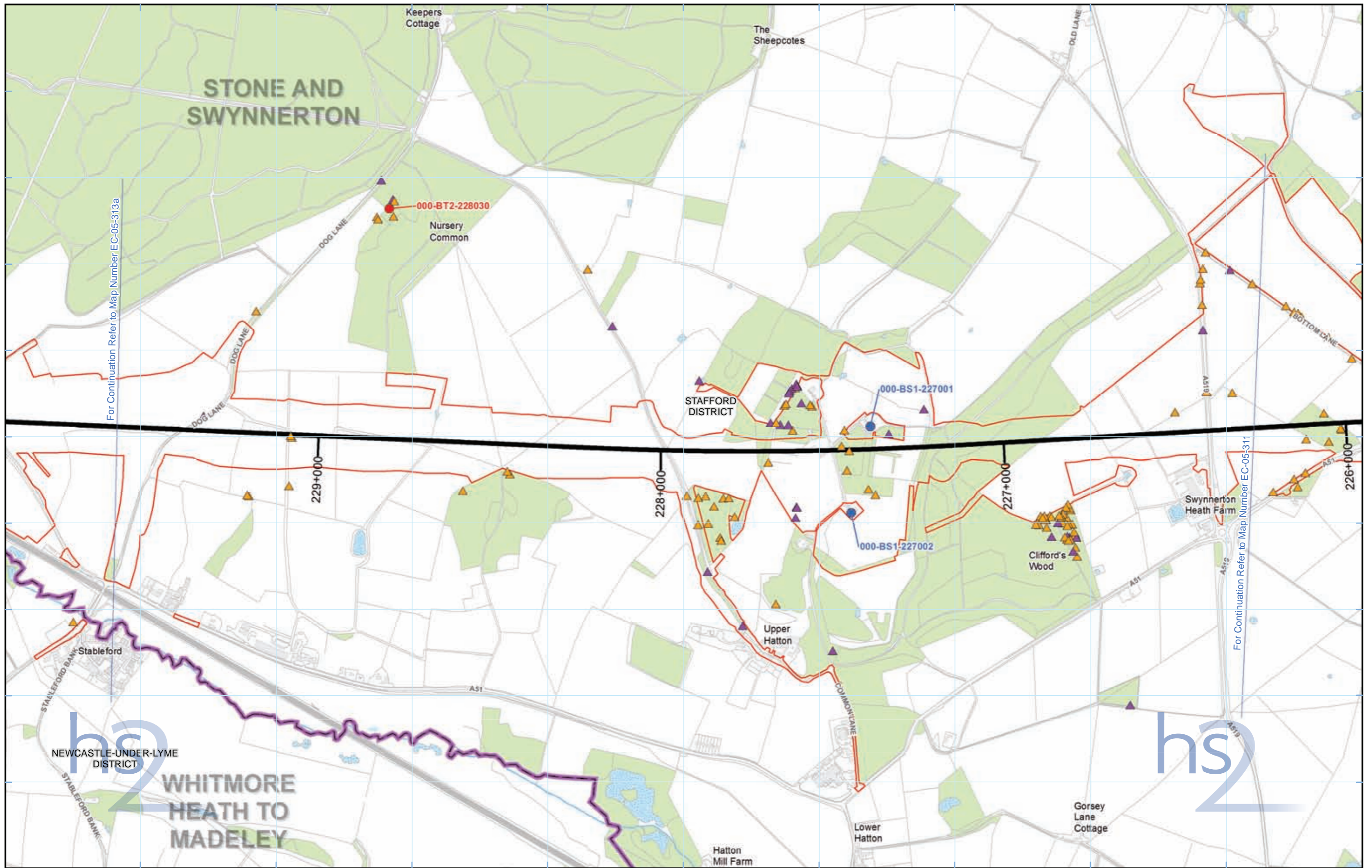
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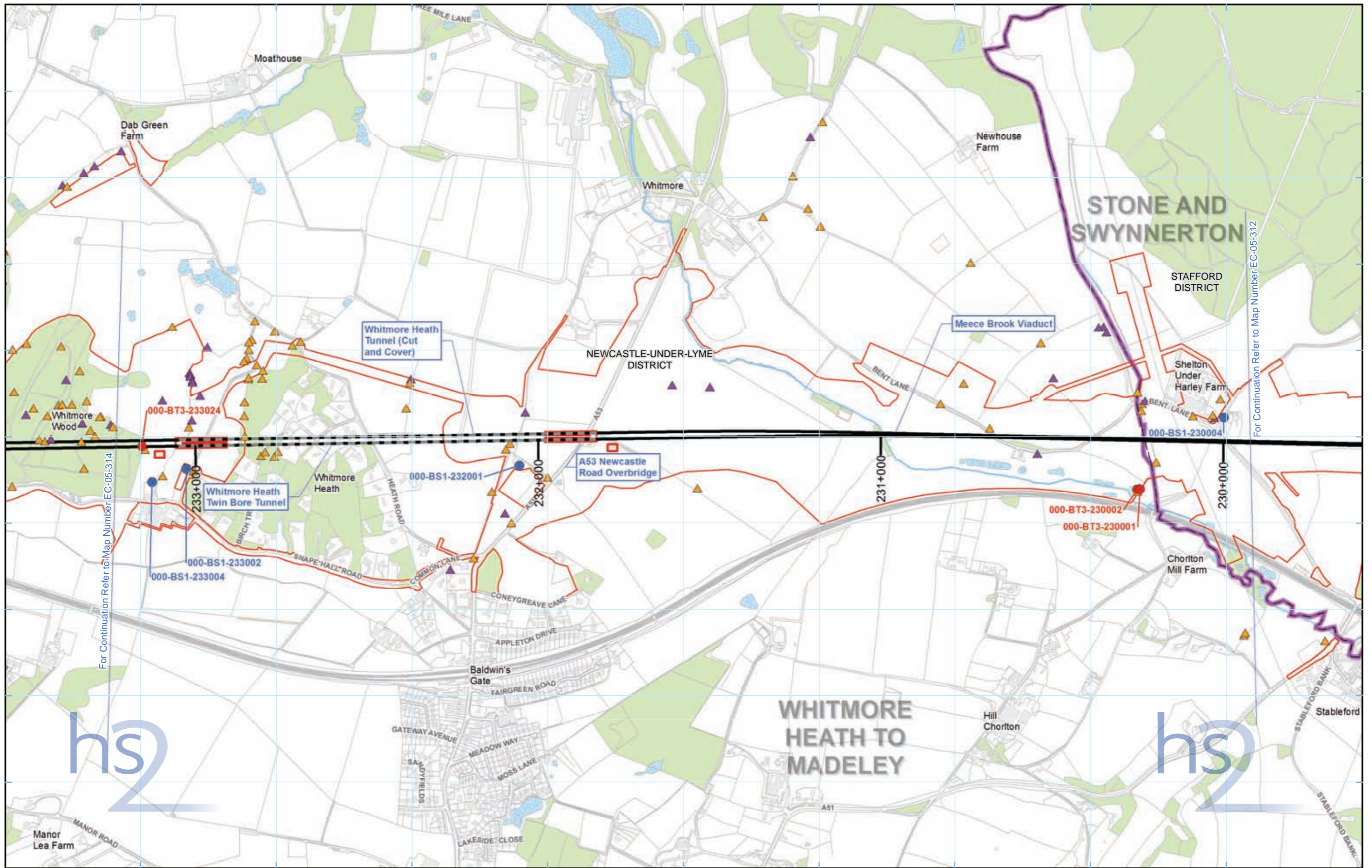
Doc Number: C861-ARP-EV-MAP-000-075311-P03 Date: 14/06/17



For Continuation Refer to Map Number EC-05-313a

For Continuation Refer to Map Number EC-05-311

<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland (not verified by survey)		<b>Confirmed bat roost - trees:</b> Hibernation roost Maternity roost Other roost Multiple roost types <b>Confirmed bat roost - building:</b> Hibernation roost Maternity roost Other roost Multiple roost types		<b>Potential to support roosting bats - buildings:</b> High Moderate <b>Potential to support roosting bats - trees:</b> High Moderate	
Map Number <b>EC-05-312</b>				Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.	
Map Name <b>Bat - Roost</b>				Scale at A3: 1:10,000 	
Community Area CA3: <b>Stone and Swynnerton</b>		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		Doc Number: C861-ARP-EV-MAP-000-075312-P03 Date: 14/06/17	



For Continuation Refer to Map Number EC-05-314

For Continuation Refer to Map Number EC-05-312

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)

Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Hibernation roost		Hibernation roost		High
	Maternity roost		Maternity roost		Moderate
	Other roost		Other roost		High
	Multiple roost types		Multiple roost types		Moderate

Map Number	EC-05-313a
Map Name	Bat - Roost
	Community Area CA3: Stone and Swynnerton

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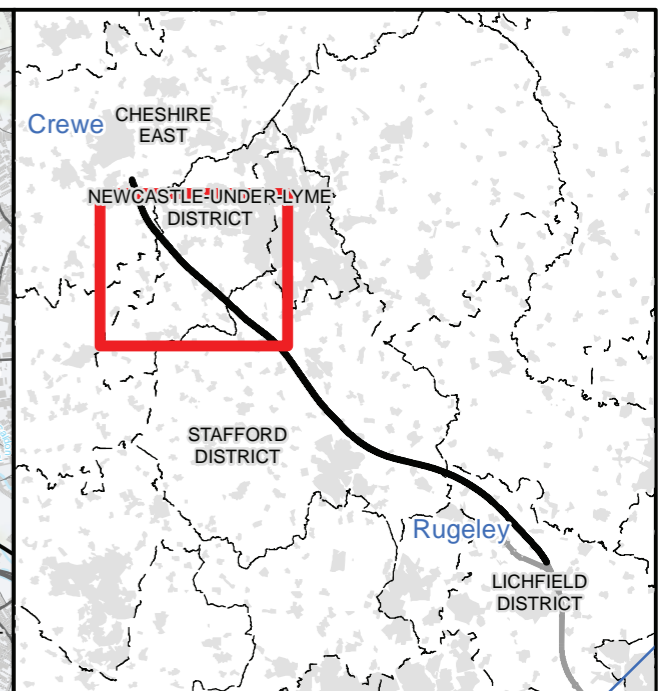
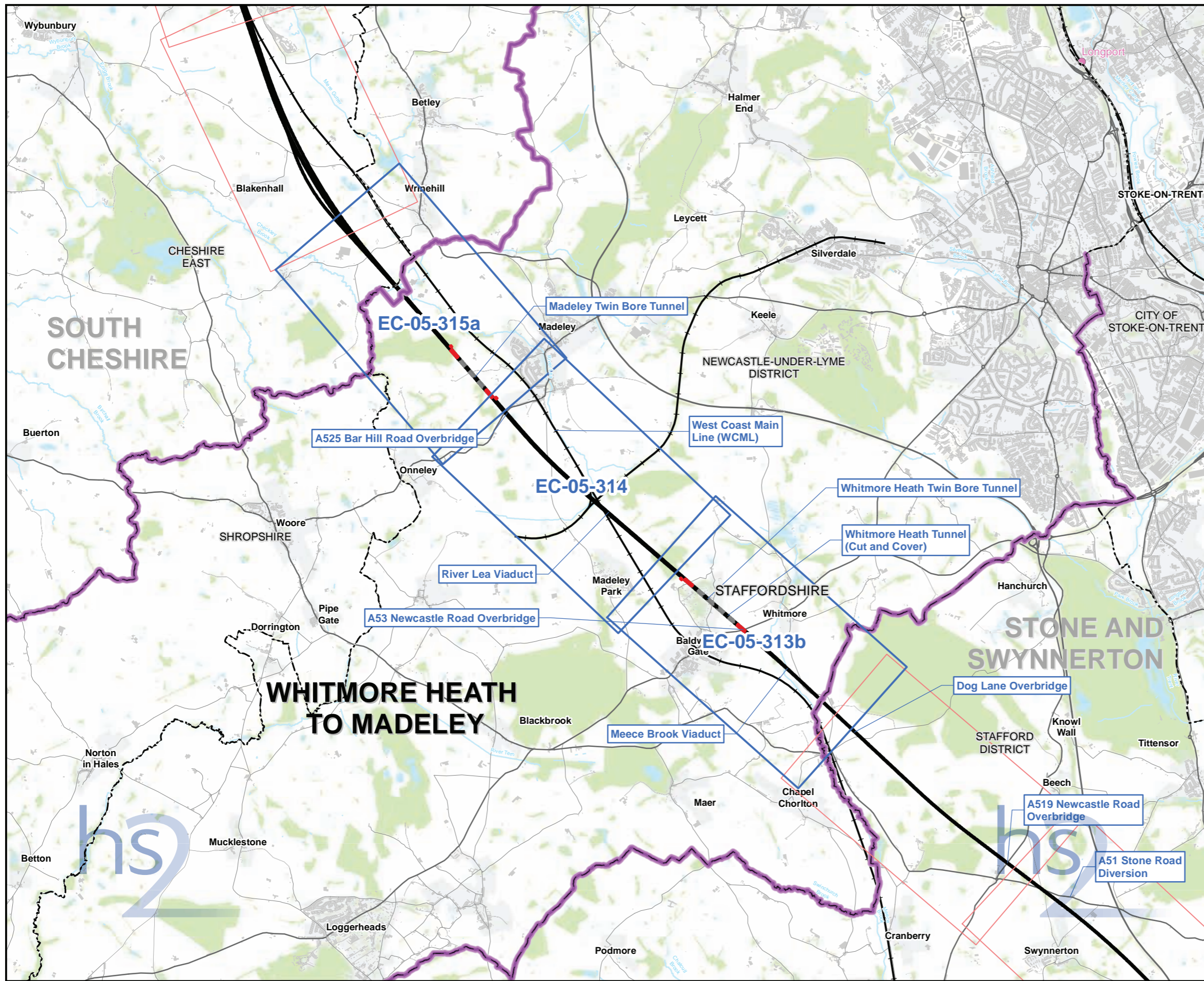
Doc Number: C861-ARP-EV-MAP-000-075313-P03

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Metres

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Date: 14/06/17



**Map Series Information:**

This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by field survey and features identified as having a high or moderate potential to support roosting bats.

- Main Map Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Community area boundary
  - Existing railway station
  - County boundary
  - District/Borough boundary
  - Map sheets included in this community area
  - Map sheets not included in this community area

Map Number	EC-05-INDEX-CA4
Map Name	Index Map of: Bat - Roost
Community Area 4: Whitmore Heath to Madeley	

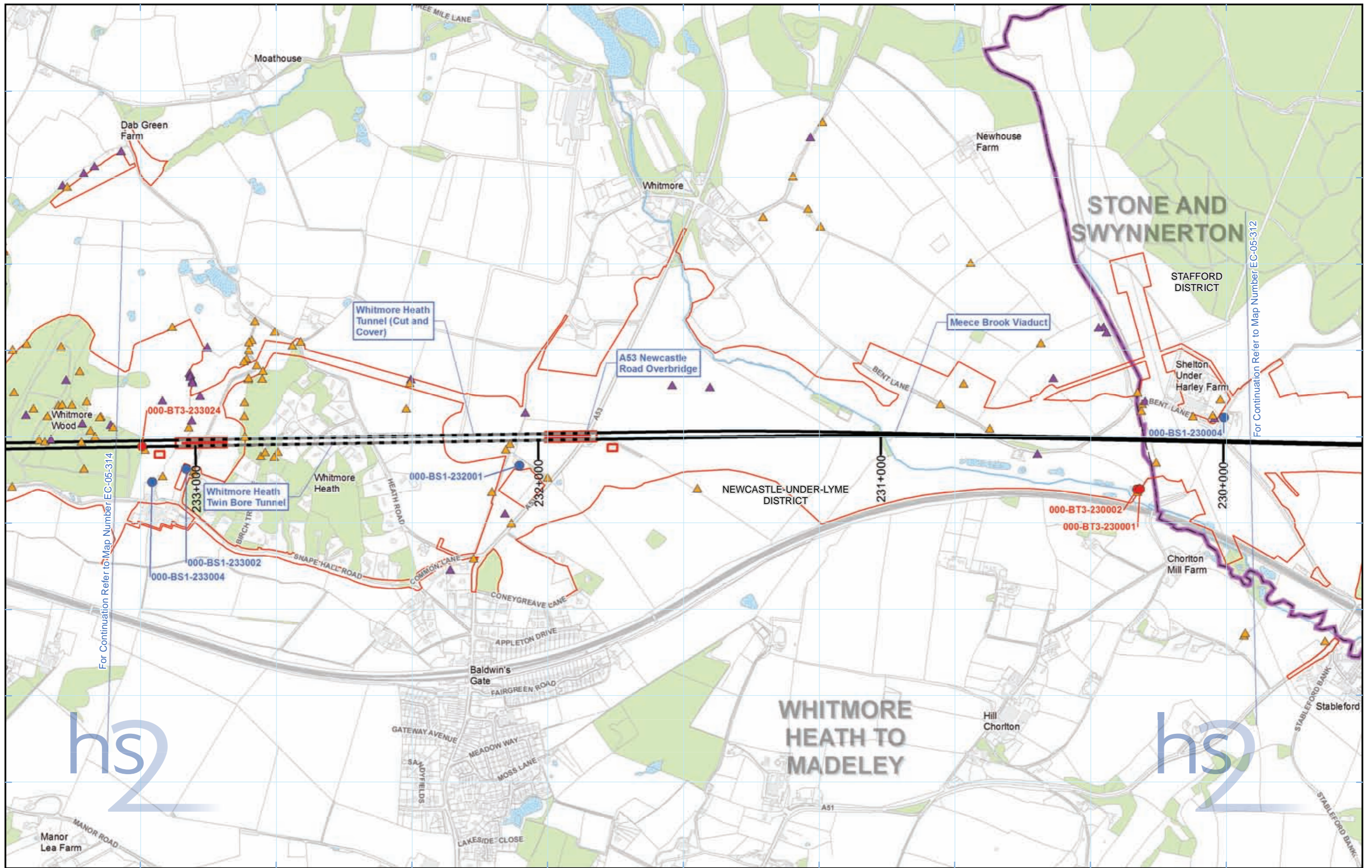
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Doc Number: C861-ARP-EV-MAP-000-075004-P03 **Date: 14/06/17**



For Continuation Refer to Map Number EC-05-314

For Continuation Refer to Map Number EC-05-312

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)

Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Hibernation roost		Hibernation roost		High
	Maternity roost		Maternity roost		Moderate
	Other roost		Other roost		High
	Multiple roost types		Multiple roost types		Moderate

Map Number	EC-05-313b
Map Name	Bat - Roost
Community Area CA4: Whitmore Heath to Madeley	

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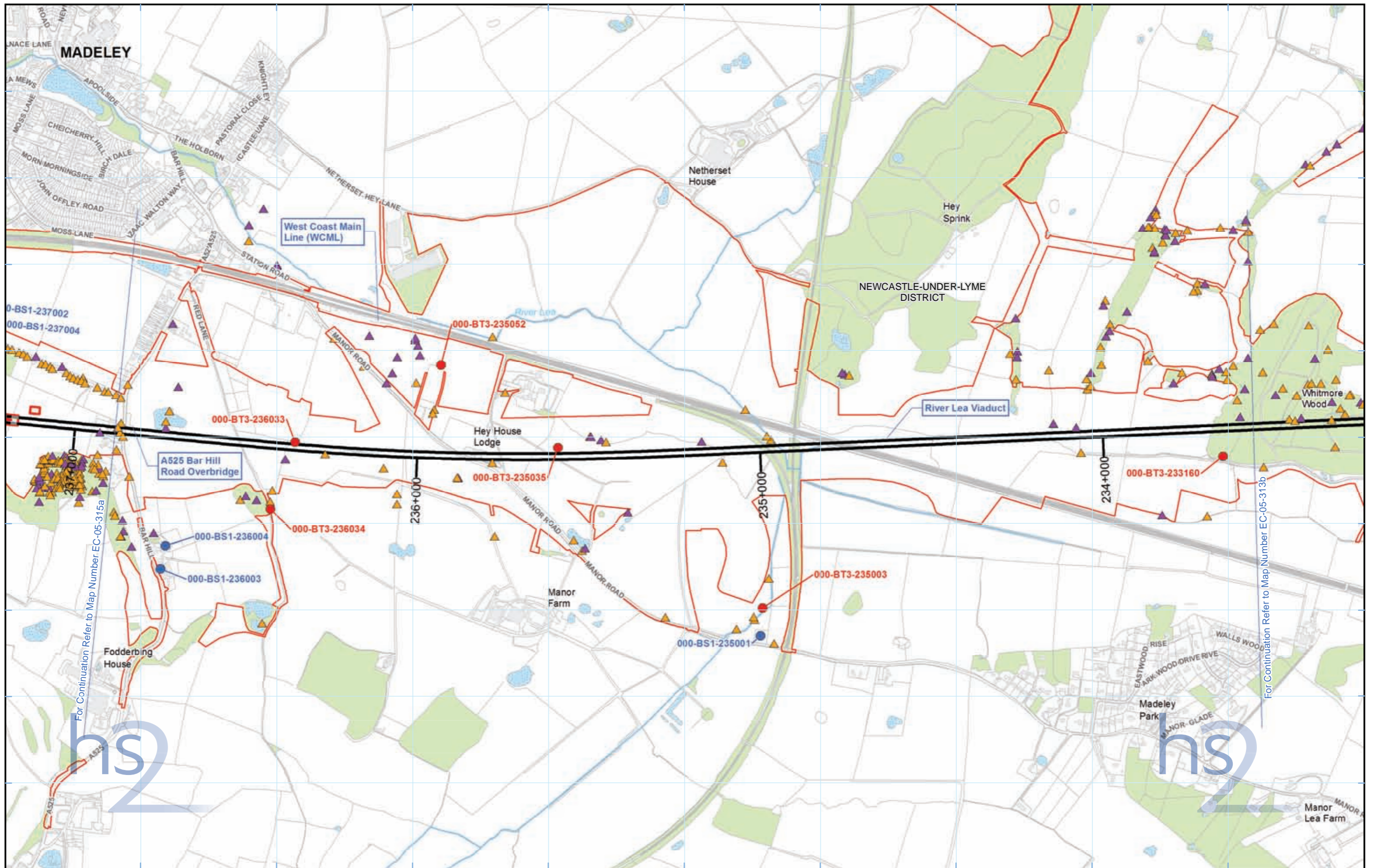
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Date: 14/06/17



Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in bored tunnel		Hibernation roost		Hibernation roost		High
	Route on surface		Maternity roost		Maternity roost		Moderate
	Depot, station, headhouse or portal building		Other roost		Other roost		High
	Land potentially required during construction		Multiple roost types		Multiple roost types		Moderate
	Community area boundary						
	County boundary						
	District/Borough boundary						
	Watercourse						
	Water body						
	Woodland (not verified by survey)						

Map Number	EC-05-314
Map Name	Bat - Roost
	Community Area CA4: Whitmore Heath to Madeley

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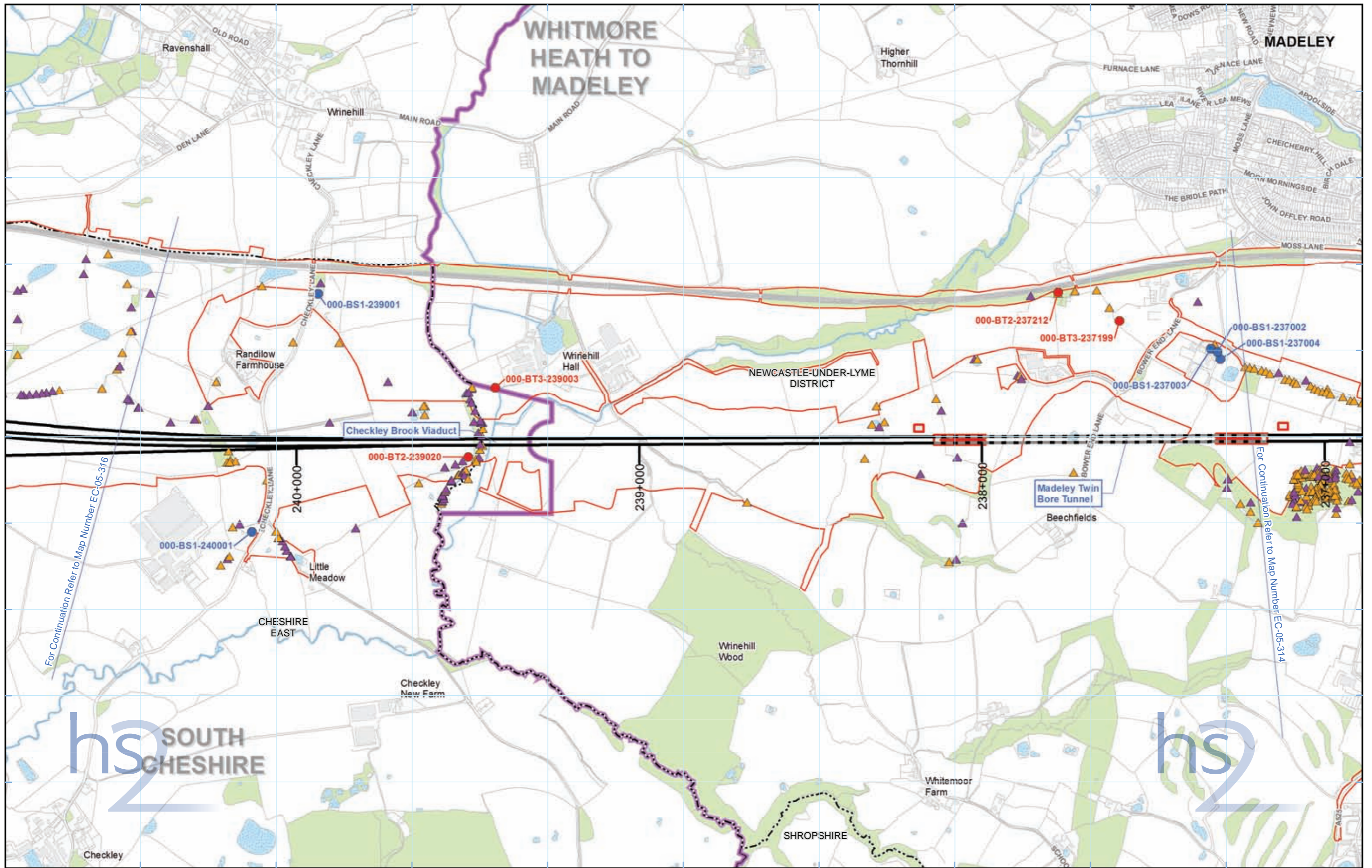
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Doc Number: C861-ARP-EV-MAP-000-075314-P03

Date: 14/06/17



**Legend**

<ul style="list-style-type: none"> <li> Route in bored tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (not verified by survey)</li> </ul>	<p><b>Confirmed bat roost - trees:</b></p> <ul style="list-style-type: none"> <li> Hibernation roost</li> <li> Maternity roost</li> <li> Other roost</li> <li> Multiple roost types</li> </ul>	<p><b>Confirmed bat roost - building:</b></p> <ul style="list-style-type: none"> <li> Hibernation roost</li> <li> Maternity roost</li> <li> Other roost</li> <li> Multiple roost types</li> </ul>	<p><b>Potential to support roosting bats - buildings:</b></p> <ul style="list-style-type: none"> <li> High</li> <li> Moderate</li> </ul> <p><b>Potential to support roosting bats - trees:</b></p> <ul style="list-style-type: none"> <li> High</li> <li> Moderate</li> </ul>
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Map Number	EC-05-315a
Map Name	Bat - Roost
Community Area CA4: Whitmore Heath to Madeley	

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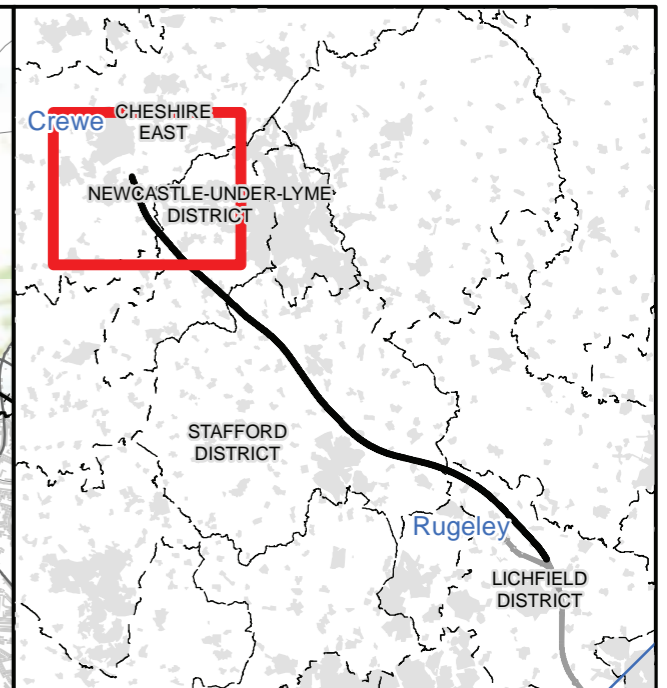
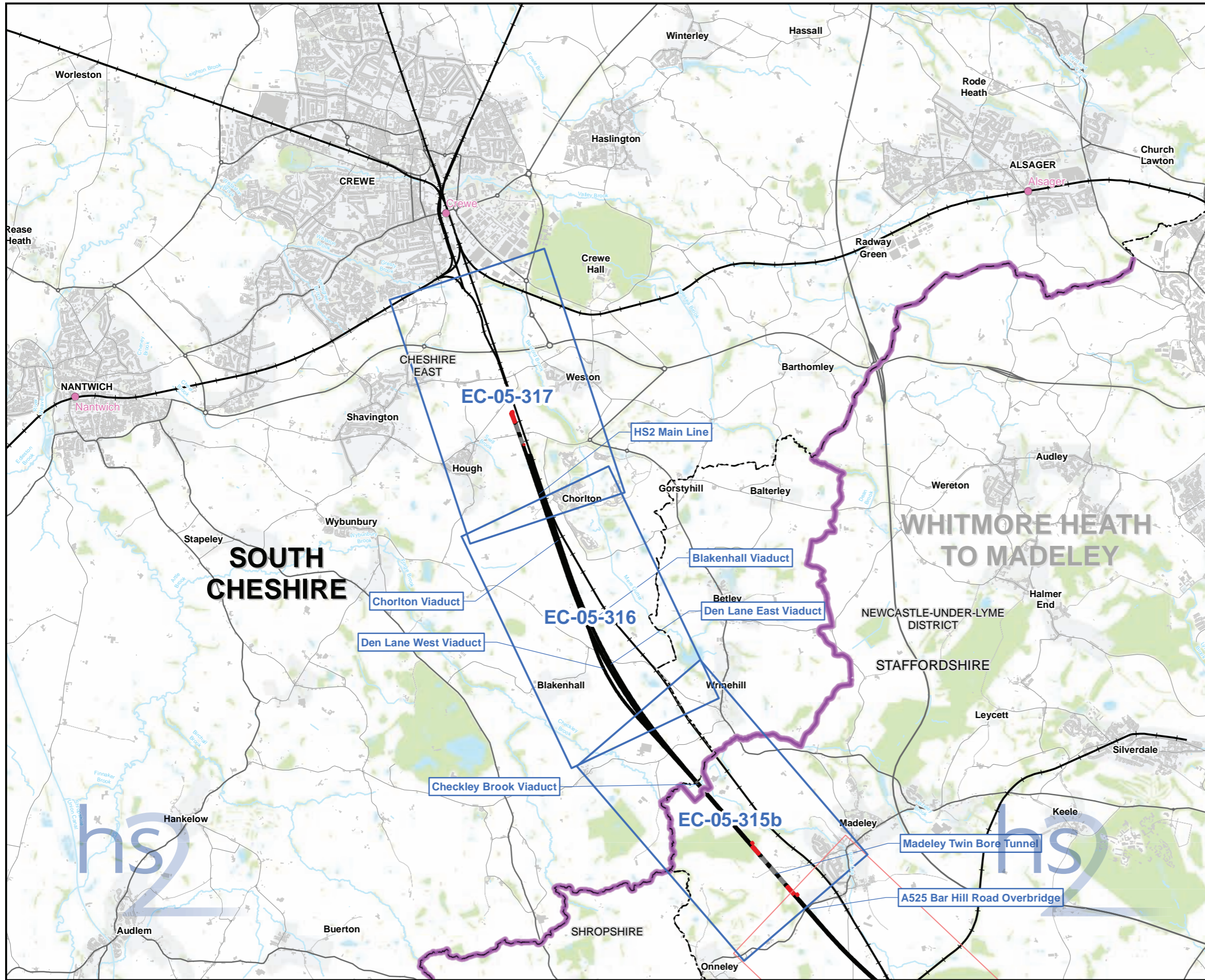
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Doc Number: C861-ARP-EV-MAP-000-075315-P03

Date: 14/06/17



**Map Series Information:**

This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by field survey and features identified as having a high or moderate potential to support roosting bats.

**Main Map Legend**


Map Number	EC-05-INDEX-CA5
Map Name	Index Map of: Bat - Roost
	Community Area 5: South Cheshire

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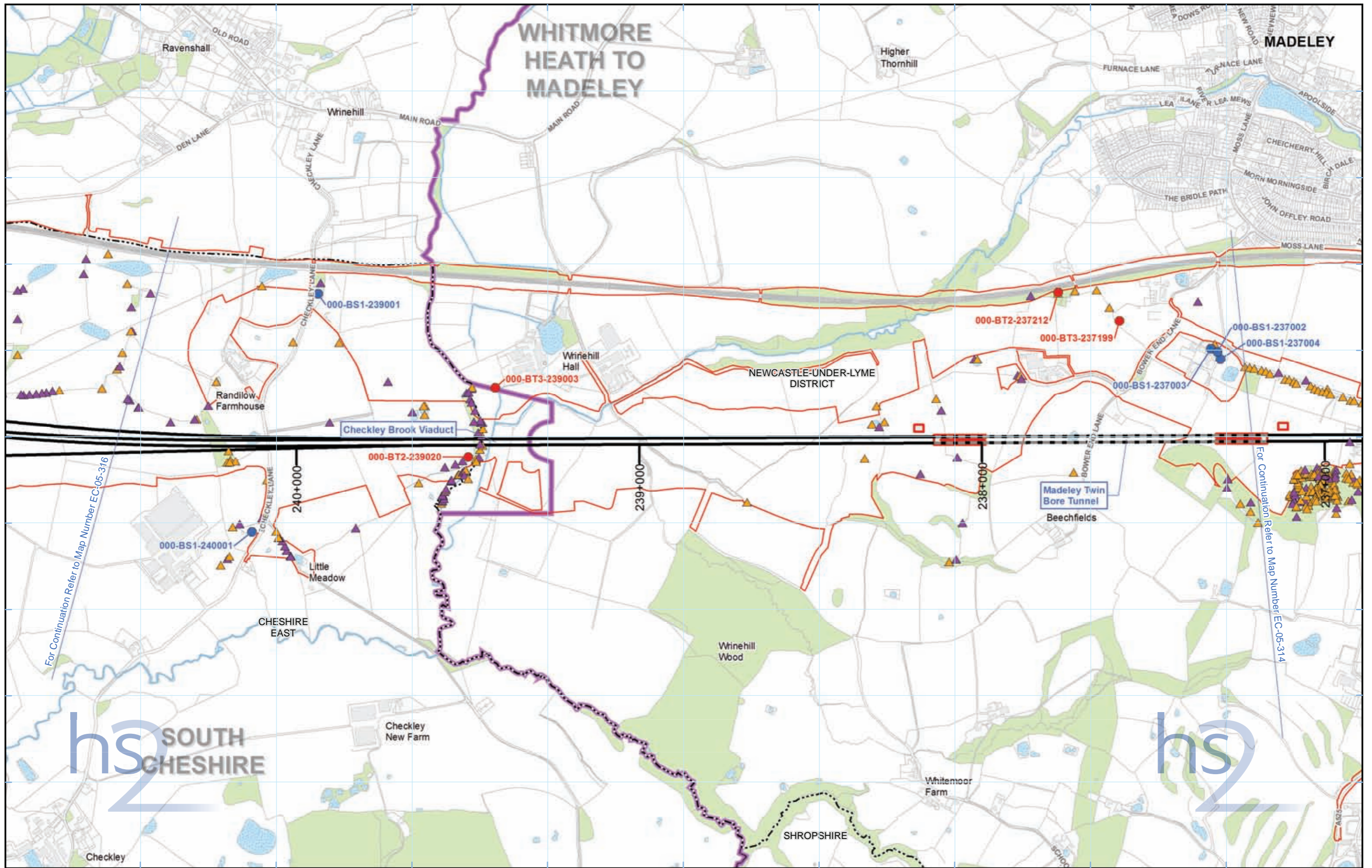
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Doc Number: C861-ARP-EV-MAP-000-075005-P03

Date: 14/06/17





**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

**Confirmed bat roost - trees:**

- Hibernation roost
- Maternity roost
- Other roost
- Multiple roost types

**Confirmed bat roost - building:**

- Hibernation roost
- Maternity roost
- Other roost
- Multiple roost types

**Potential to support roosting bats - buildings:**

- High
- Moderate

**Potential to support roosting bats - trees:**

- High
- Moderate

Map Number: EC-05-315b

Map Name: Bat - Roost

Community Area CA5: South Cheshire

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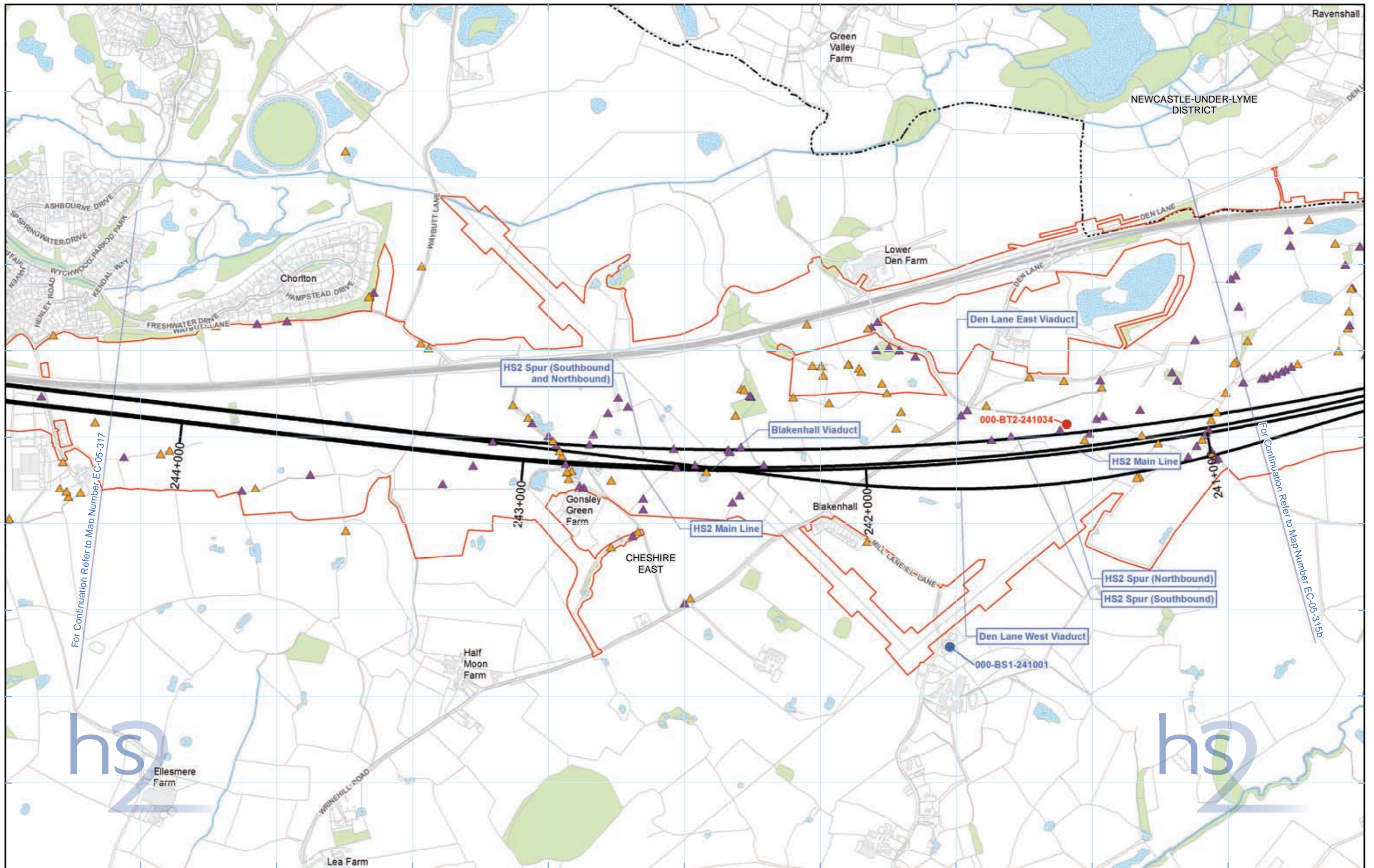
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Doc Number: C861-ARP-EV-MAP-000-075515-P03

Date: 14/06/17



Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in bored tunnel		Hibernation roost		Hibernation roost		High
	Route on surface		Maternity roost		Maternity roost		Moderate
	Depot, station, headhouse or portal building		Other roost		Other roost		High
	Land potentially required during construction		Multiple roost types		Multiple roost types		Moderate
	Community area boundary						
	County boundary						
	District/Borough boundary						
	Watercourse						
	Water body						
	Woodland (not verified by survey)						

Map Number	EC-05-316
Map Name	Bat - Roost
Community Area CA5: South Cheshire	

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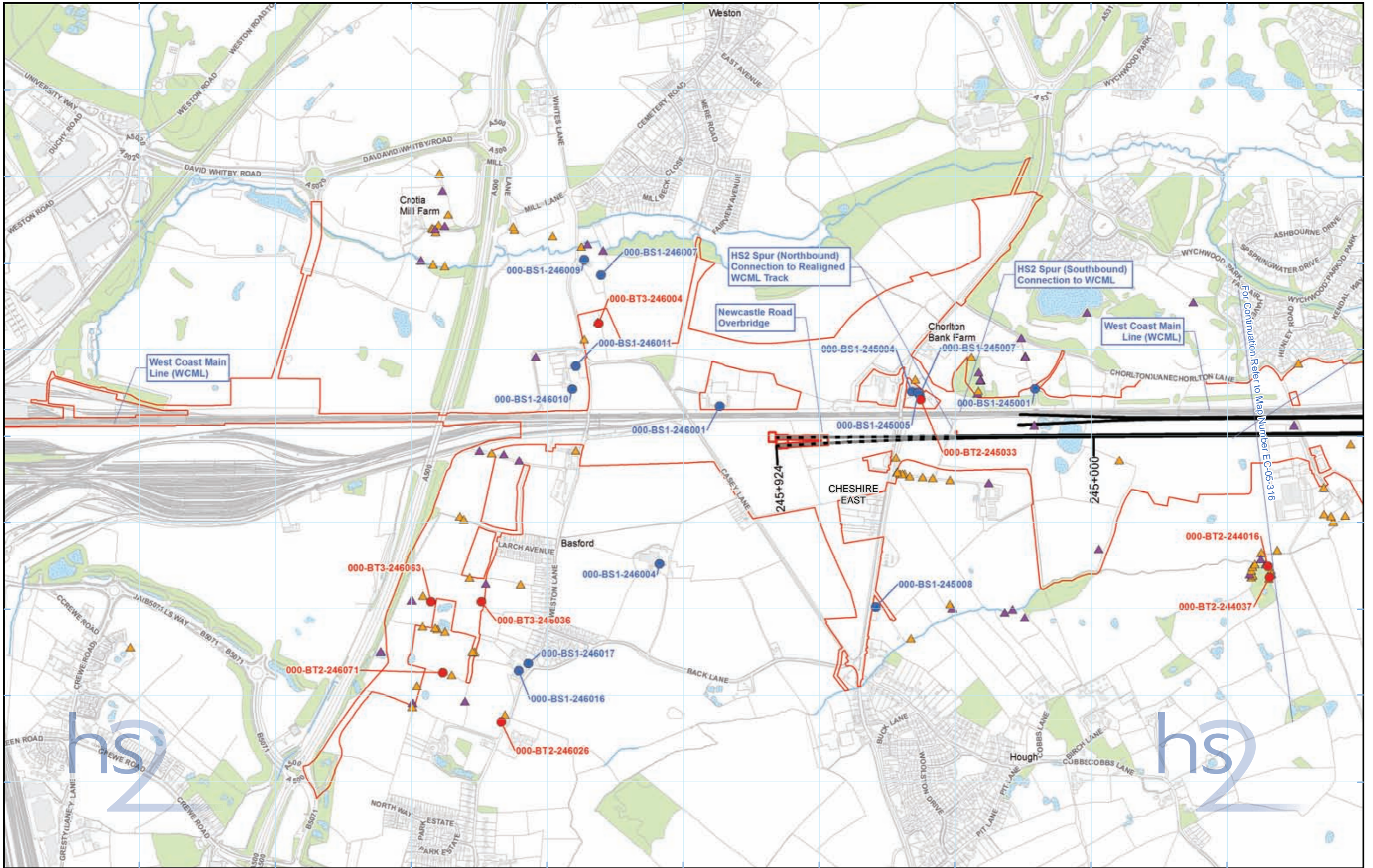
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Scale at A3: 1:10,000

0 100 200 300 400 Metres

Doc Number: C861-ARP-EV-MAP-000-075316-P03 Date: 14/06/17



**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Confirmed bat roost - trees:

- Hibernation roost
- Maternity roost
- Other roost
- Multiple roost types

Confirmed bat roost - building:

- Hibernation roost
- Maternity roost
- Other roost
- Multiple roost types

Potential to support roosting bats - buildings:

- High
- Moderate

Potential to support roosting bats - trees:

- High
- Moderate

Map Number: EC-05-317

Map Name: Bat - Roost

Community Area CA5: South Cheshire

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Doc Number: C861-ARP-EV-MAP-000-075317-P03

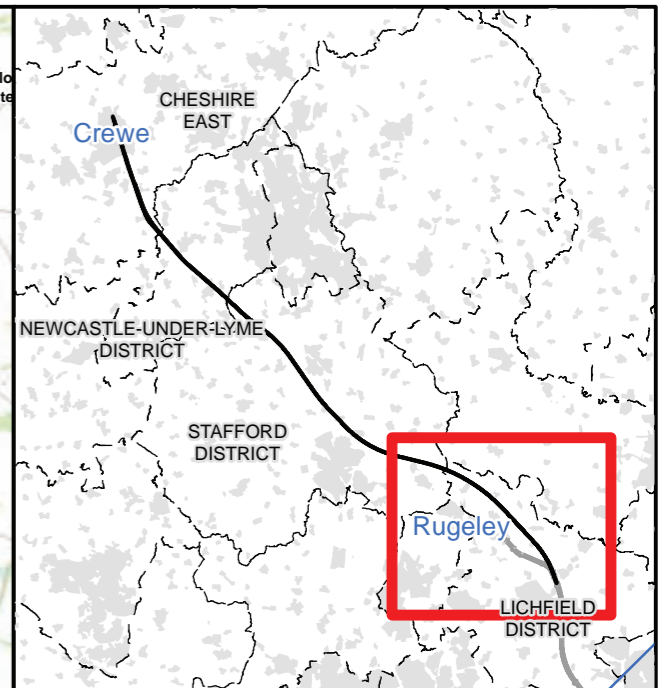
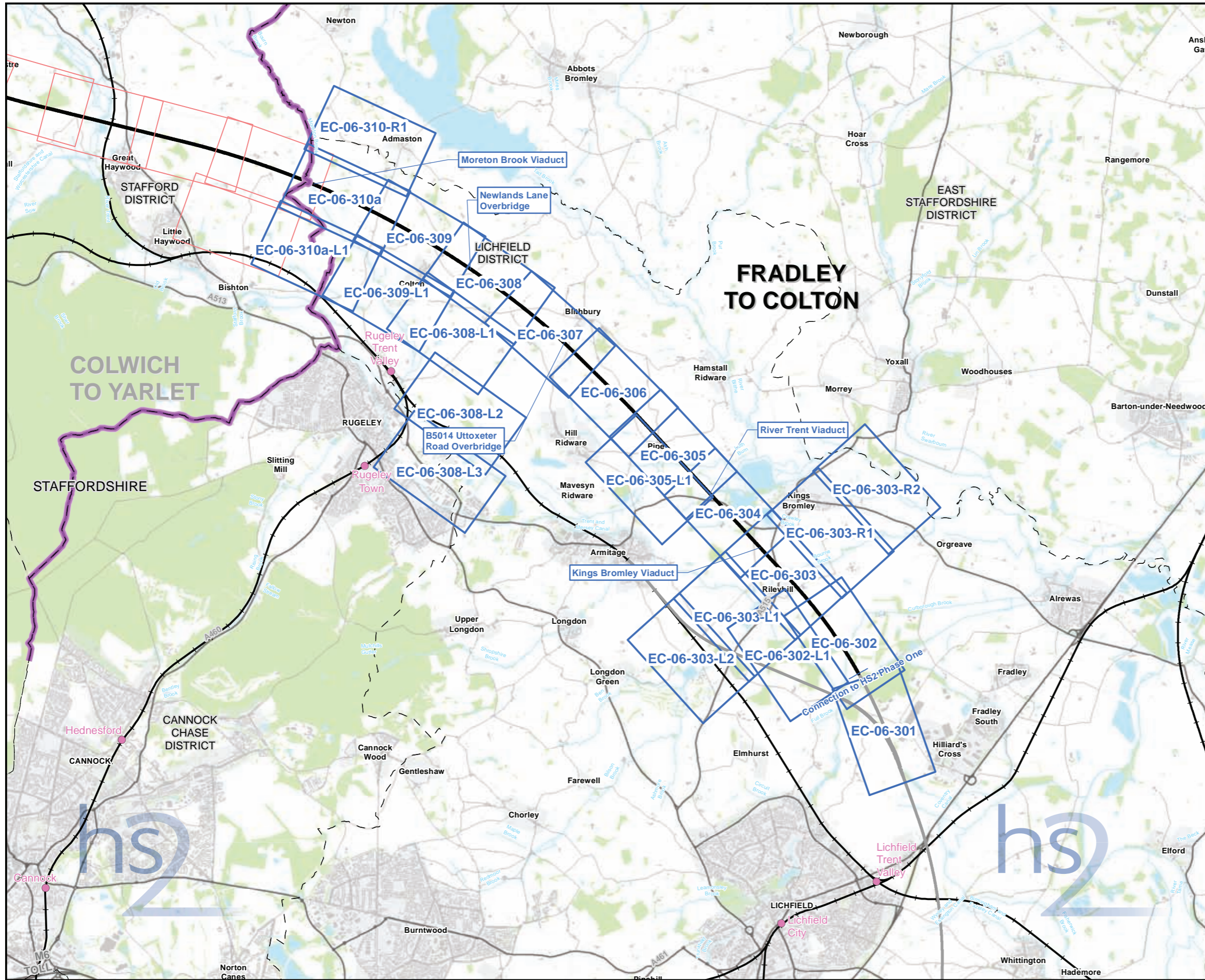
Scale at A3: 1:10,000

Date: 14/06/17

For Continuation Refer to Map Number EC-05-316

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High Speed Two Phase 2a (West Midlands-Crewe)  
Background Information and Data  
**EC-06 - Bat - Activity**



**Map Series Information:**

This map series shows the location of bat activity surveys conducted to inform the Environmental Statement. In addition it shows the location of the key bat foraging and commuting routes which have been established on the basis of the survey work conducted.

- Main Map Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Community area boundary
  - Existing railway station
  - County boundary
  - District/Borough boundary
  - Map sheets included in this community area
  - Map sheets not included in this community area

Map Number	EC-06-INDEX-CA1
Map Name	Index Map of: Bat - Activity
Community Area 1:	Fradley to Colton

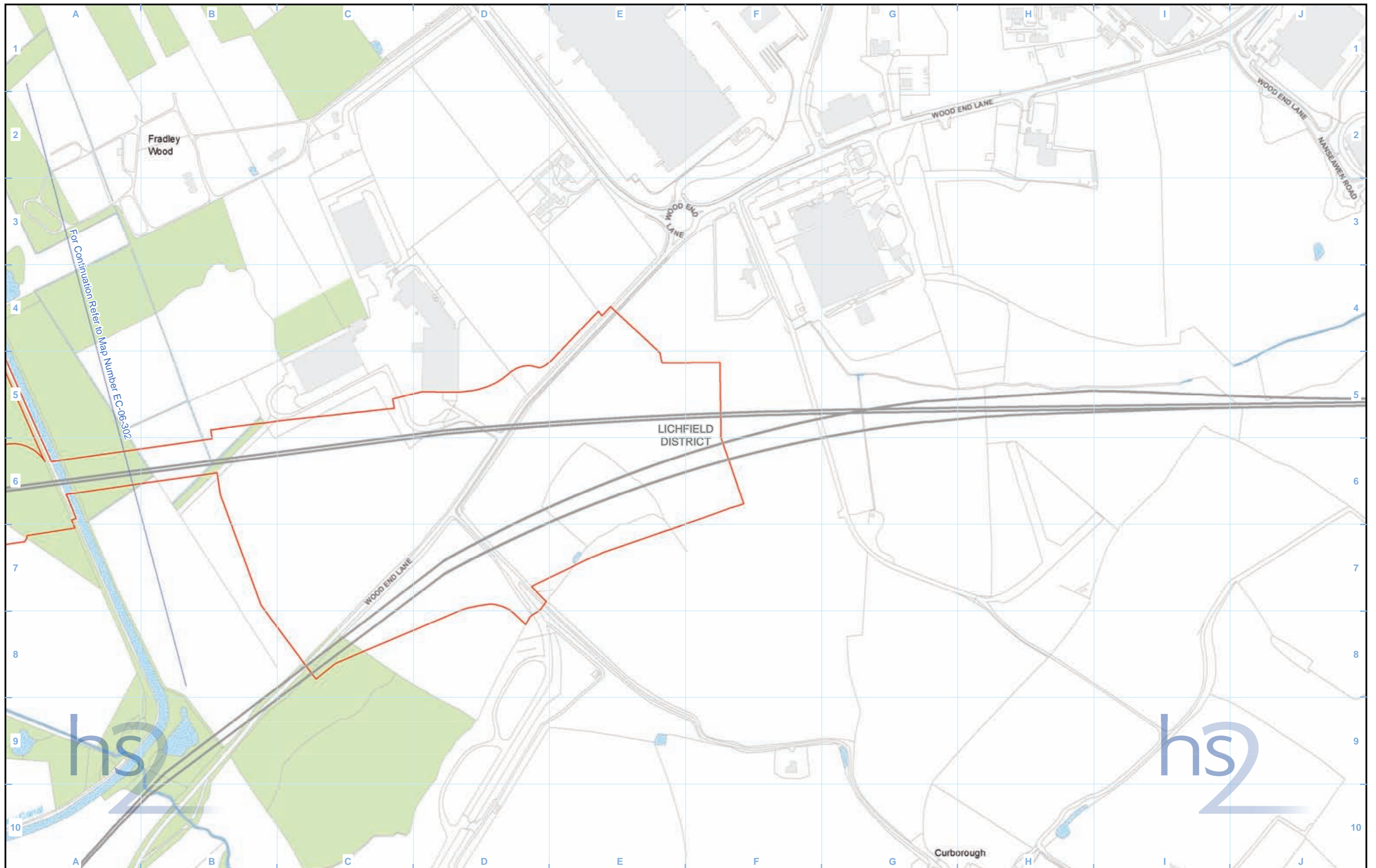
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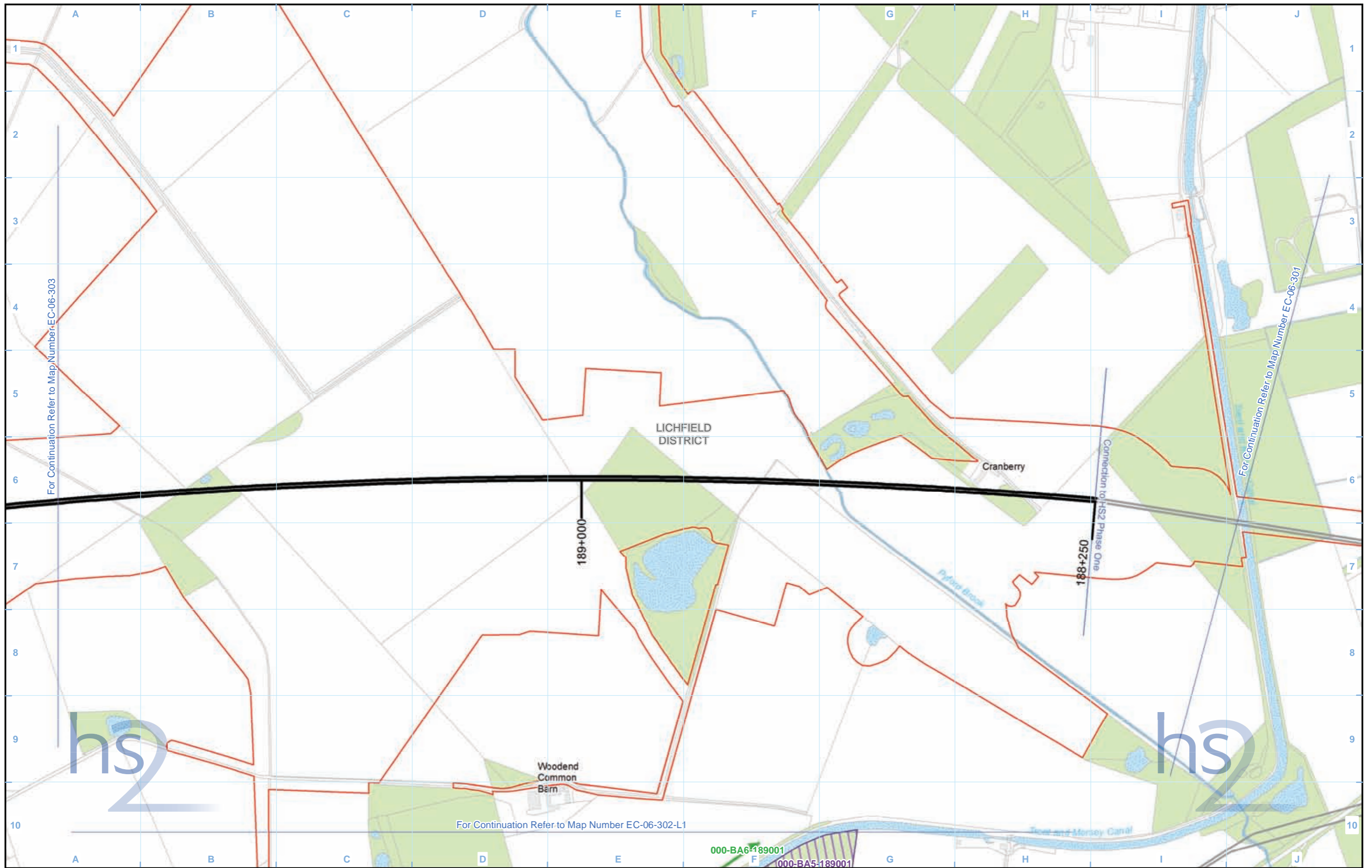
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Doc Number: C861-ARP-EV-MAP-000-076001-P03 **Date: 14/06/17**

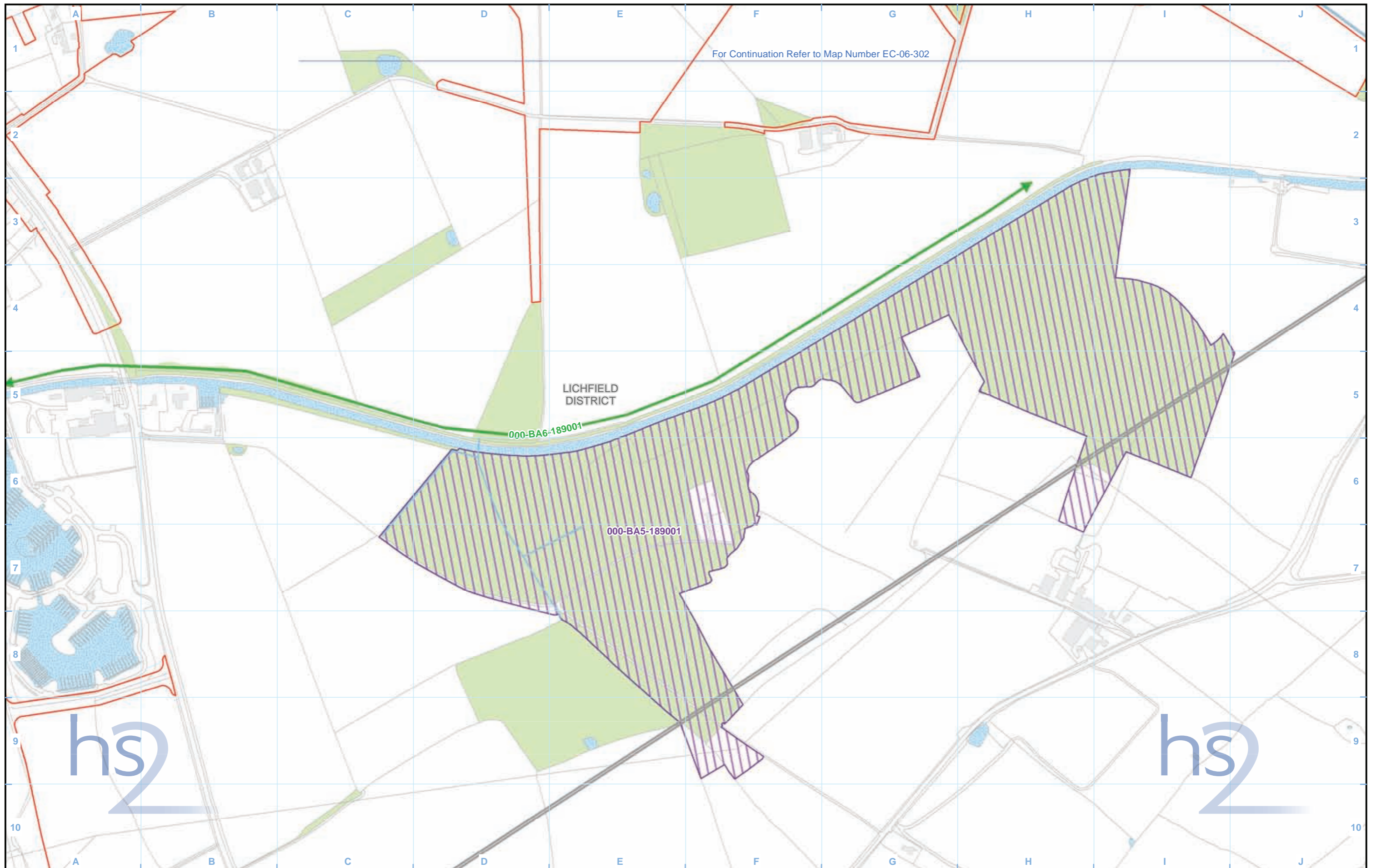


<b>Legend</b> <ul style="list-style-type: none"> <li> Route in bored tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li> Bat activity static detector location</li> <li> Activity transect route</li> <li> Assumed key commuting route</li> <li> Assumed key areas of foraging habitat</li> </ul>		<p>Map Number: EC-06-301</p> <p>Map Name: Bat - Activity</p> <p>Community Area 1: Fradley to Colton</p>	<p></p> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C861-ARP-EV-MAP-000-076301-P03</p>
<p>Scale at A3: 1:5,000</p> <p></p>		<p></p> <p>Date: 14/06/17</p>	



<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland (verified by survey) Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat		Map Number <b>EC-06-302</b> Map Name <b>Bat - Activity</b> Community Area 1: <b>Fradley to Colton</b>	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.  Scale at A3: 1:5,000  Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190. Doc Number: C861-ARP-EV-MAP-000-076302-P03 Date: 14/06/17
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**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number	EC-06-302-L1
Map Name	Bat - Activity
	Community Area 1: Fradley to Colton




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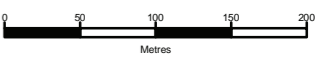
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**Doc Number:** C861-ARP-EV-MAP-000-076402-P03

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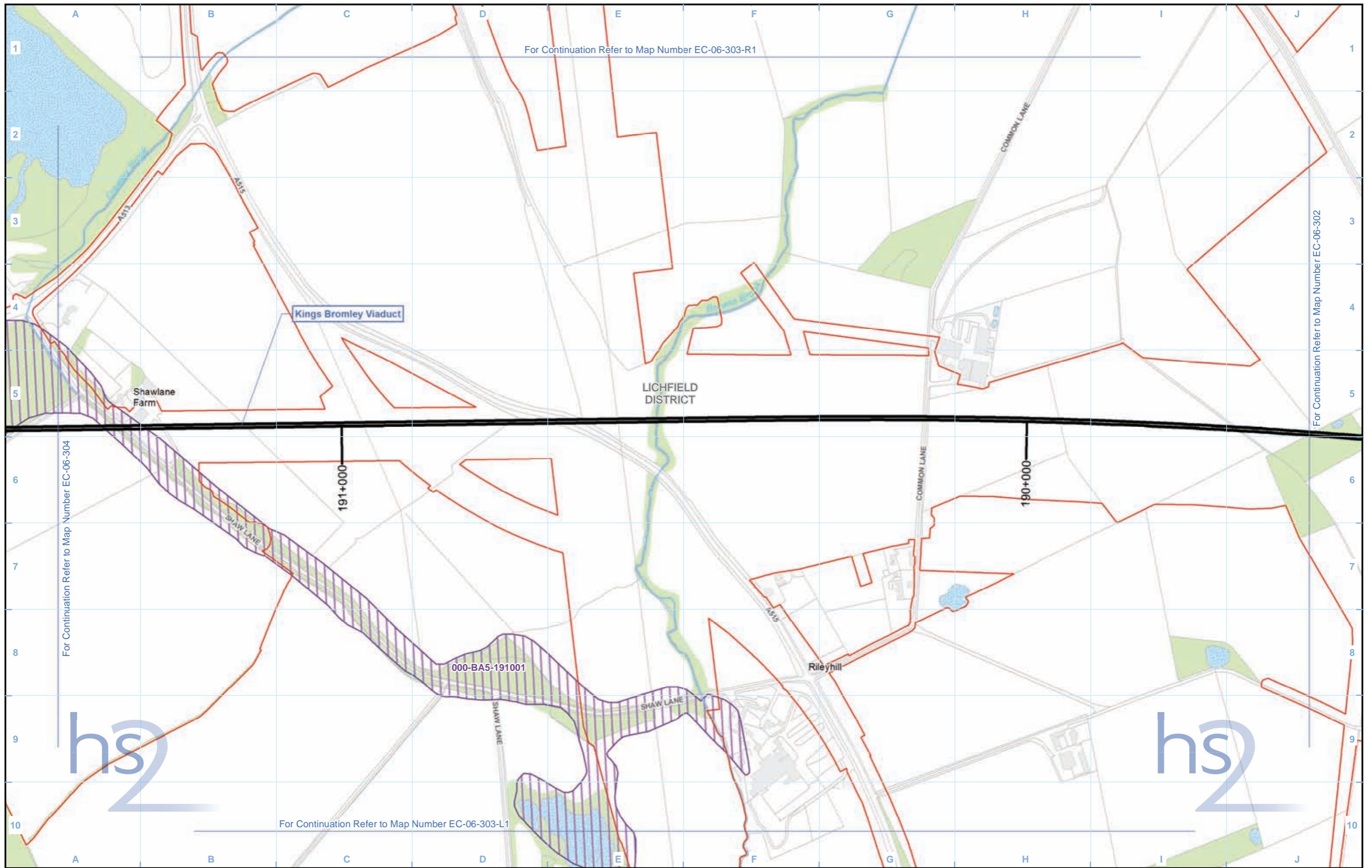


**Scale at A3: 1:5,000**



Metres

**Date:** 14/06/17



For Continuation Refer to Map Number EC-06-303-R1

For Continuation Refer to Map Number EC-06-302

For Continuation Refer to Map Number EC-06-304

For Continuation Refer to Map Number EC-06-303-L1

- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)

- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

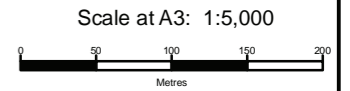
Map Number	EC-06-303
Map Name	Bat - Activity
Community Area 1: Fradley to Colton	



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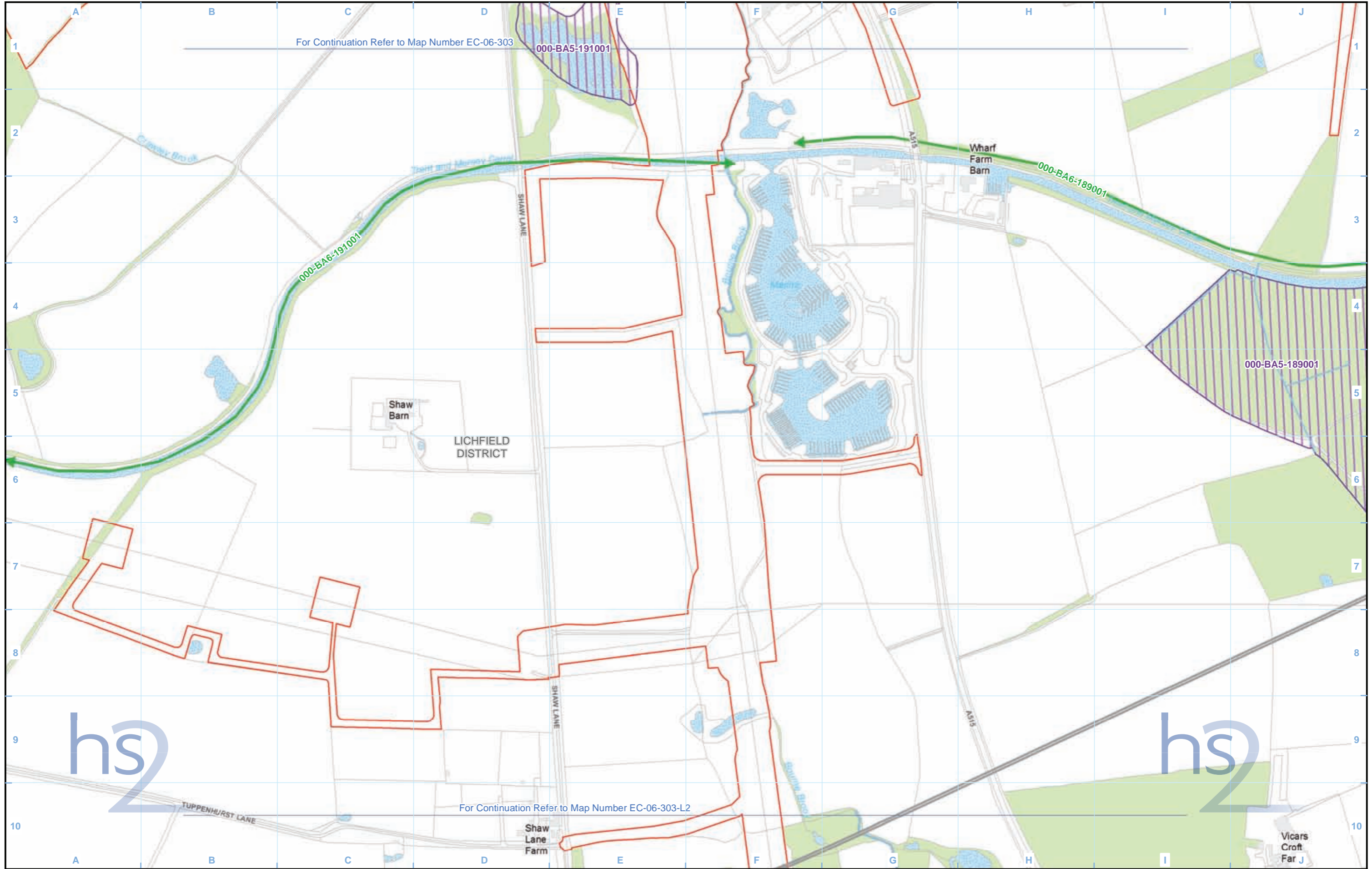
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Date: 14/06/17



For Continuation Refer to Map Number EC-06-303

For Continuation Refer to Map Number EC-06-303-L2

**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)

- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number	EC-06-303-L1
Map Name	Bat - Activity
Community Area 1: Fradley to Colton	

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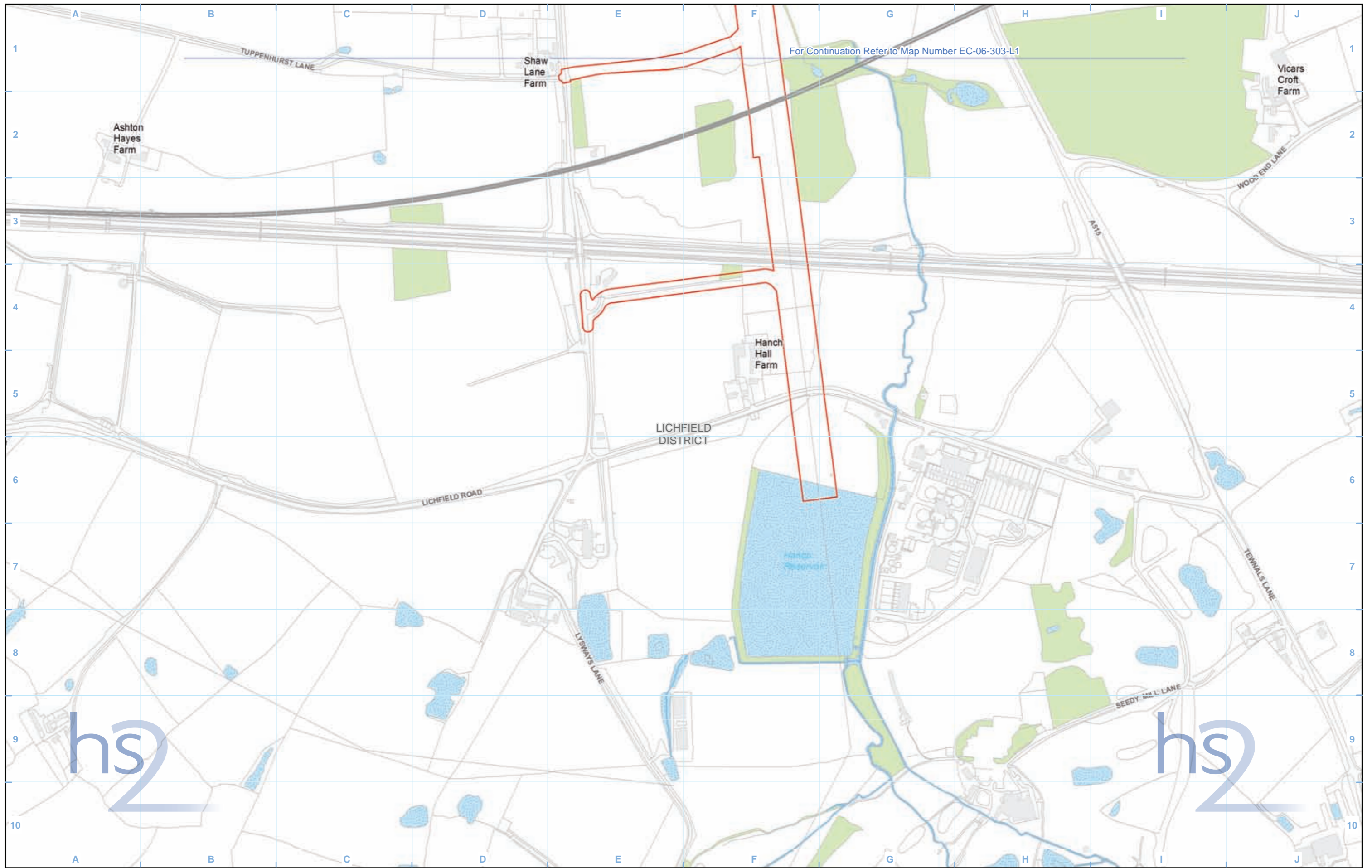
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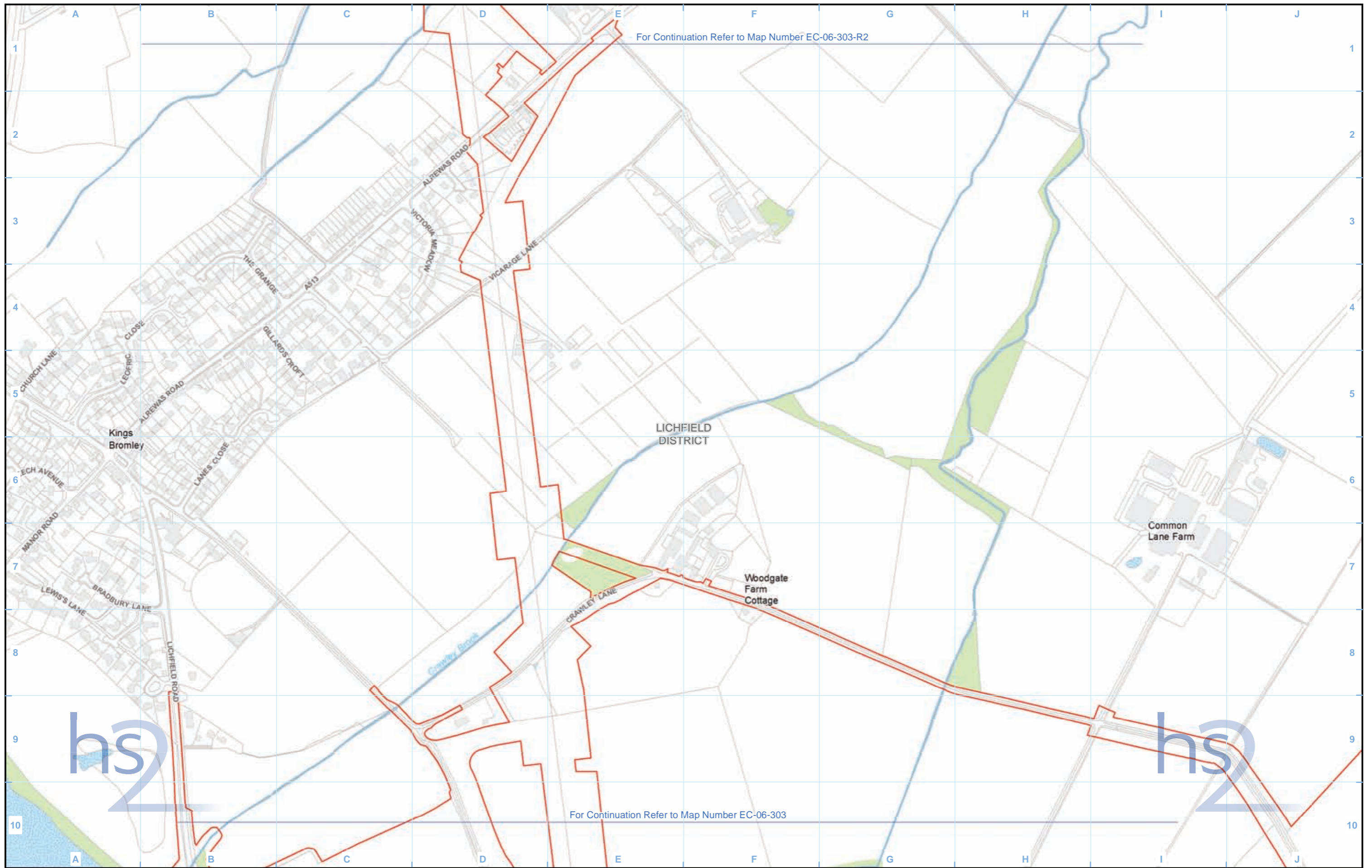
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For Continuation Refer to Map Number EC-06-303-L1

<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
Map Number <b>EC-06-303-L2</b>				HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.	
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Community Area 1: <b>Fradley to Colton</b>		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		Doc Number: C861-ARP-EV-MAP-000-076503-P03 Date: 14/06/17	



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat


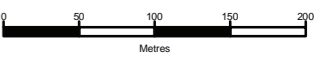
Map Number	EC-06-303-R1
Map Name	Bat - Activity
Community Area 1: Fradley to Colton	


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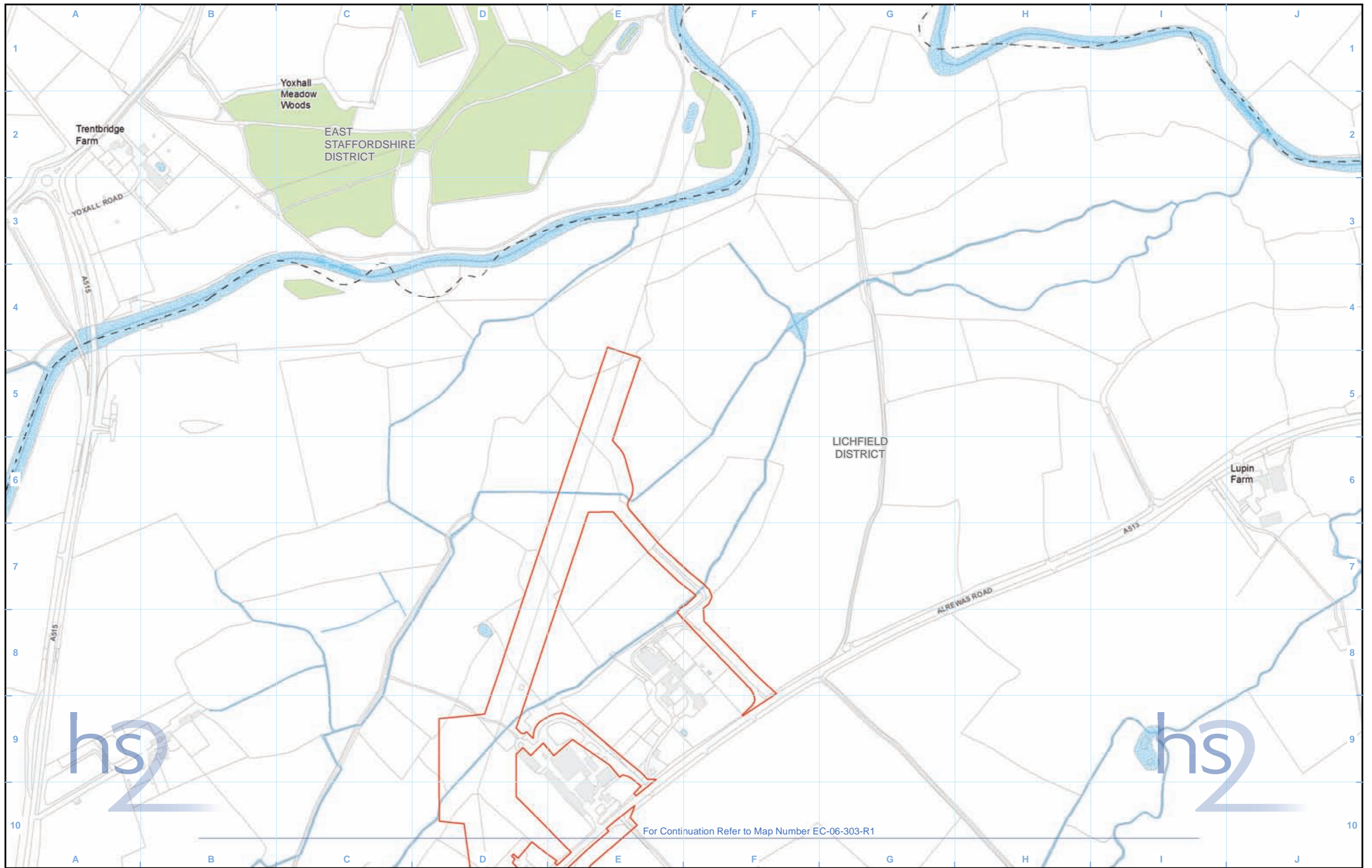
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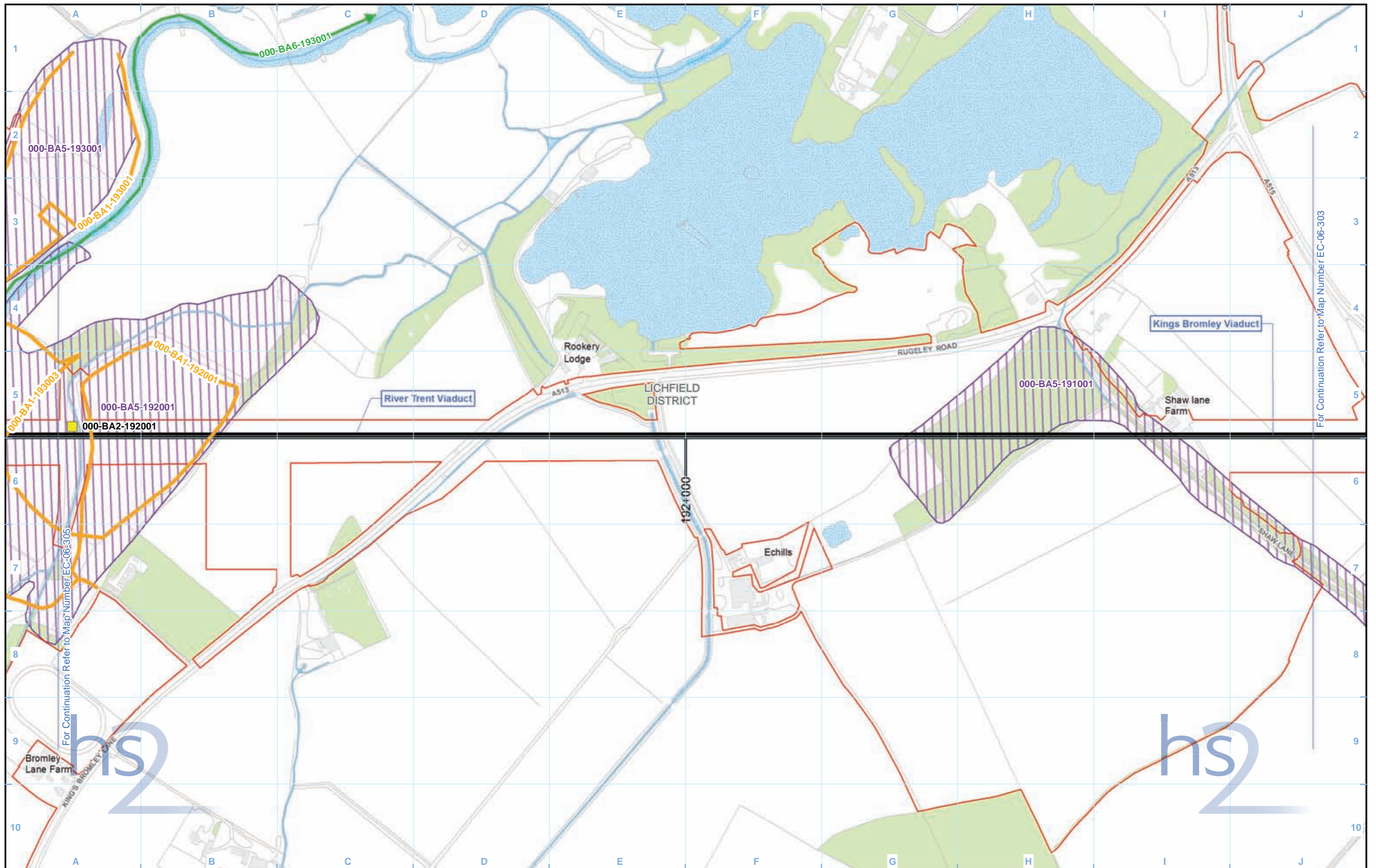

  

  
 Metres

Doc Number: C861-ARP-EV-MAP-000-076603-P03      Date: 14/06/17



For Continuation Refer to Map Number EC-06-303-R1

<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
Map Number <b>EC-06-303-R2</b>				HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.	
Map Name <b>Bat - Activity</b>		Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.		Scale at A3: 1:5,000 	
Community Area 1: <b>Fradley to Colton</b>		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		Doc Number: C861-ARP-EV-MAP-000-076703-P03 Date: 14/06/17	



**Legend**

	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		
	Community area boundary		
	County boundary		
	District/Borough boundary		

	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat

Map Number	EC-06-304
Map Name	Bat - Activity
	Community Area 1: Fradley to Colton

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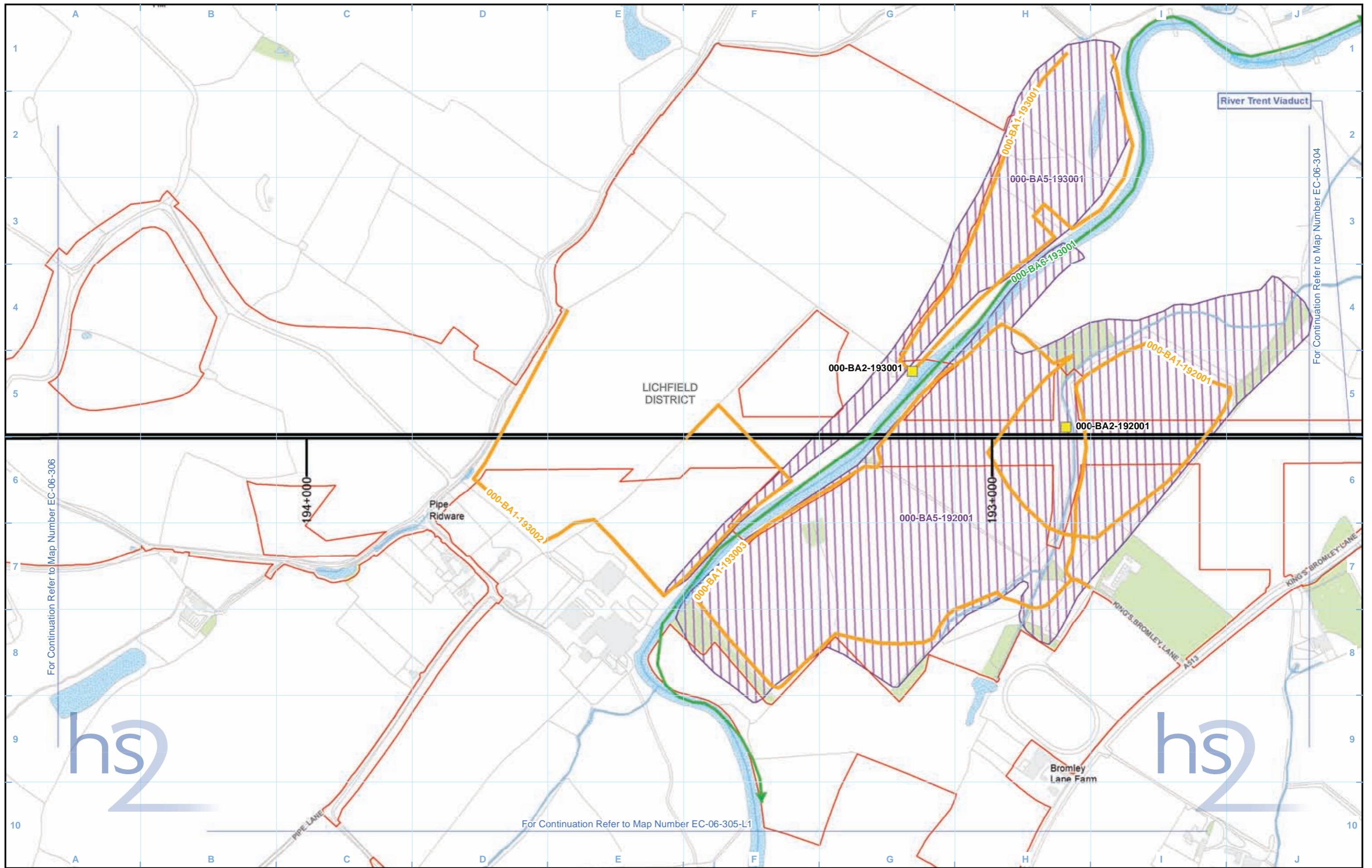
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Date: 14/06/17

For Continuation Refer to Map Number EC-06-303

For Continuation Refer to Map Number EC-06-305



**Legend**

Route in bored tunnel	Watercourse	Bat activity static detector location
Route on surface	Water body	Activity transect route
Depot, station, headhouse or portal building	Woodland (verified by survey)	Assumed key commuting route
Land potentially required during construction		Assumed key areas of foraging habitat
Community area boundary		
County boundary		
District/Borough boundary		

Map Number	EC-06-305
Map Name	Bat - Activity
Community Area 1: Fradley to Colton	

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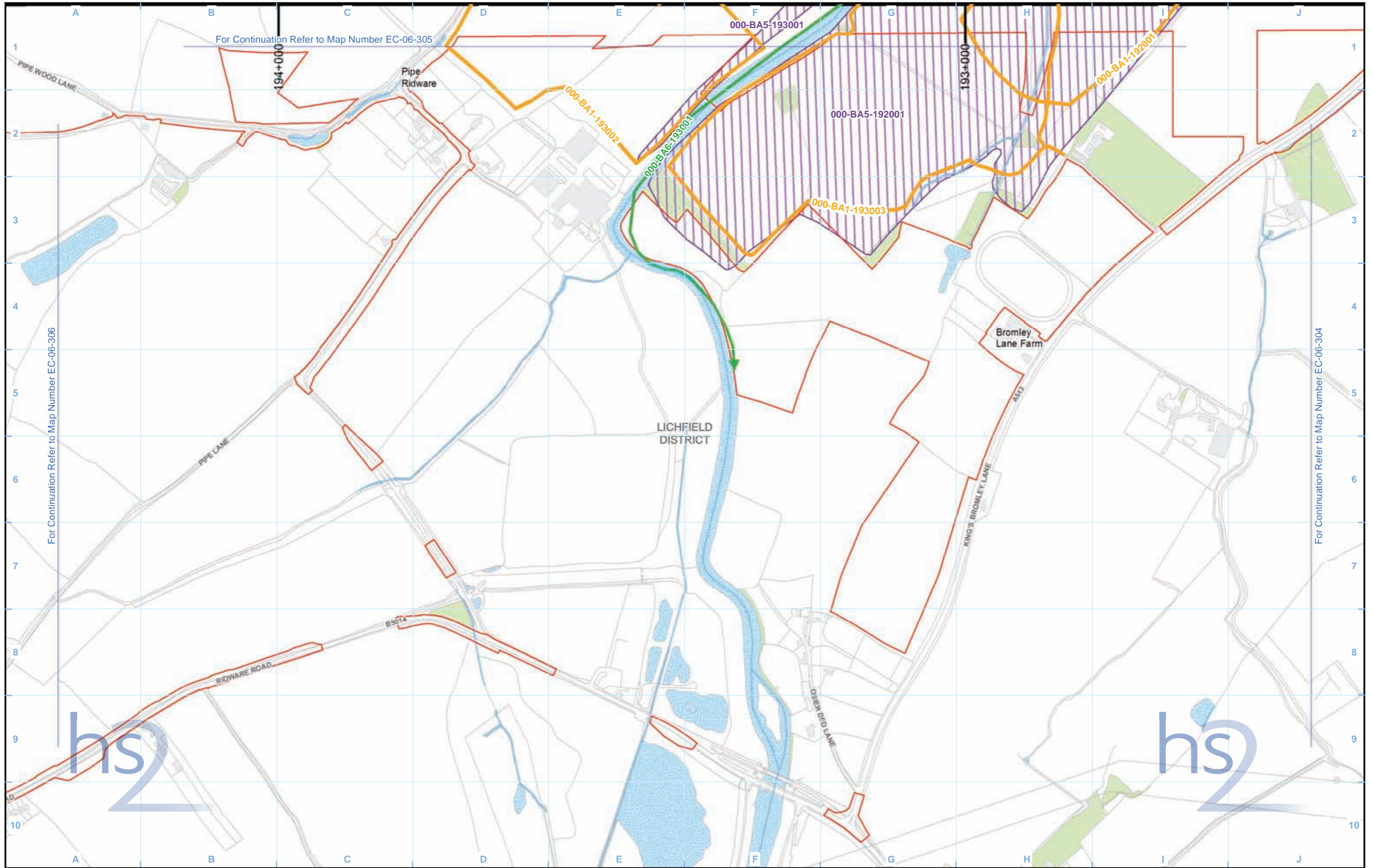
Doc Number: C861-ARP-EV-MAP-000-076305-P03 Date: 14/06/17

For Continuation Refer to Map Number EC-06-306

For Continuation Refer to Map Number EC-06-304

For Continuation Refer to Map Number EC-06-305-L1






For Continuation Refer to Map Number EC-06-305

For Continuation Refer to Map Number EC-06-306

For Continuation Refer to Map Number EC-06-304

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat


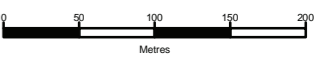
Map Number	EC-06-305-L1
Map Name	Bat - Activity
	Community Area 1: Fradley to Colton


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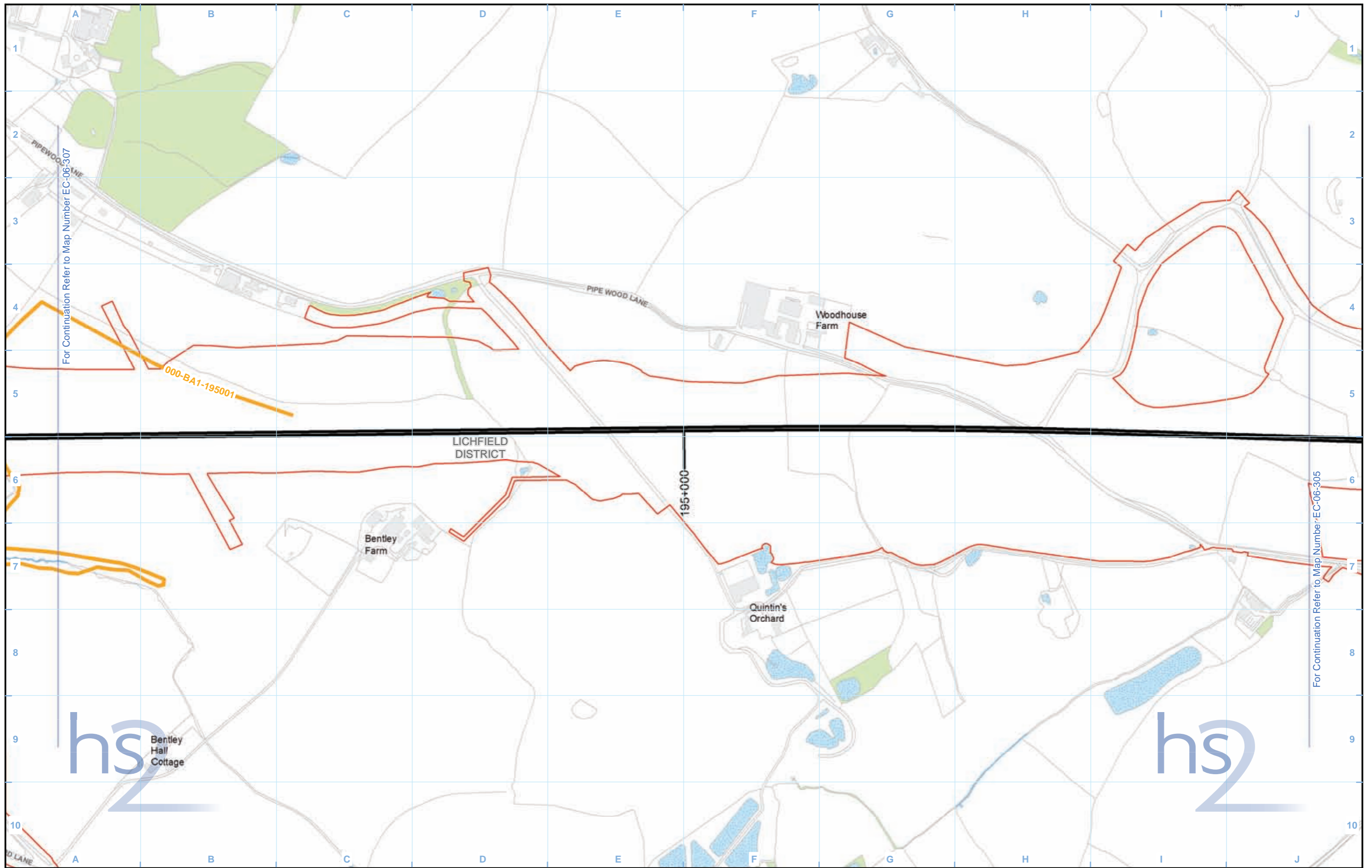
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For Continuation Refer to Map Number EC-06-307

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195+000

For Continuation Refer to Map Number EC-06-305

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat

Map Number	EC-06-306
Map Name	Bat - Activity
Community Area 1: Fradley to Colton	

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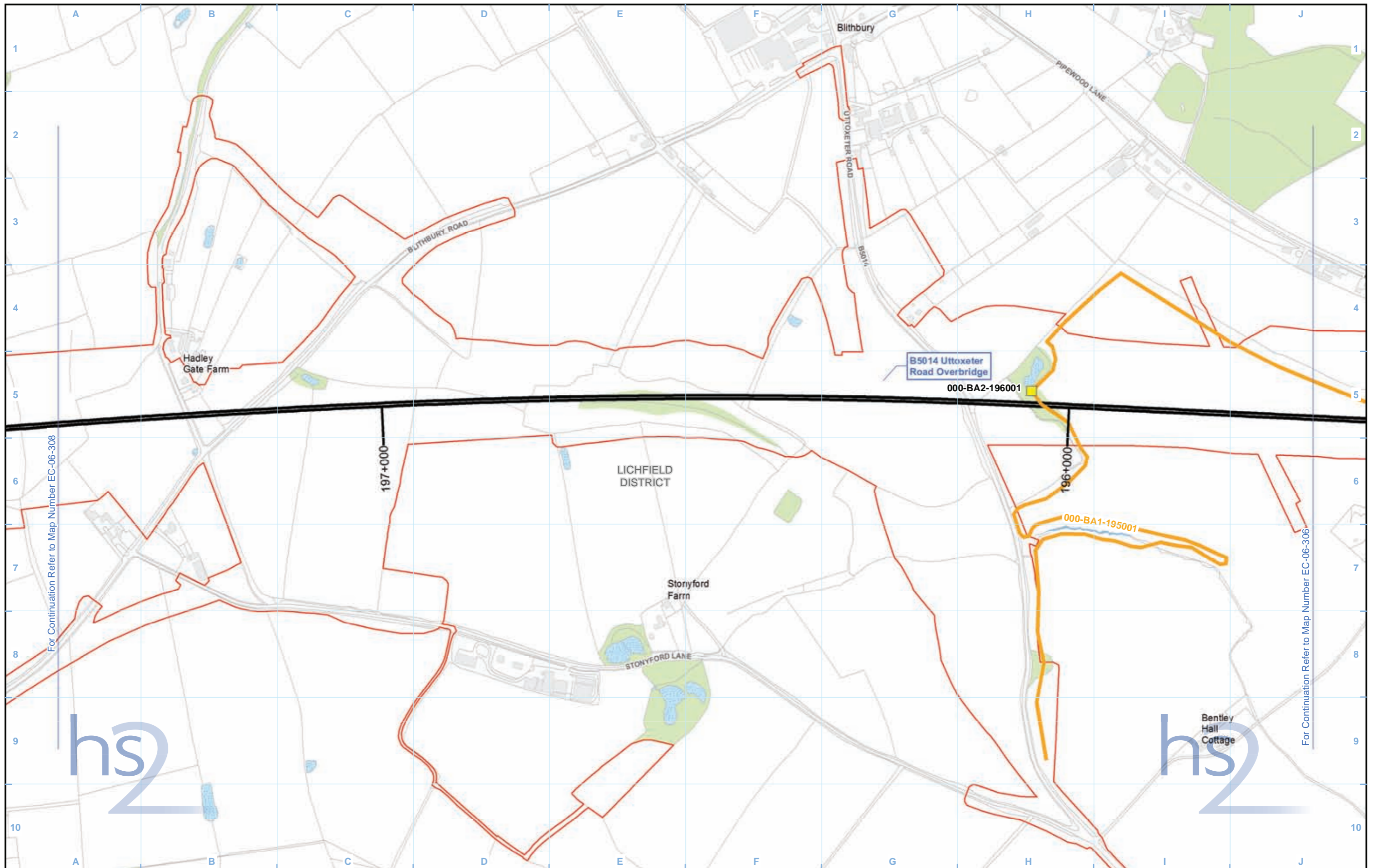
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Date: 14/06/17



Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Bat activity static detector location
	Community area boundary		Activity transect route
	County boundary		Assumed key commuting route
	District/Borough boundary		Assumed key areas of foraging habitat


Map Number	EC-06-307
Map Name	Bat - Activity
Community Area 1: Fradley to Colton	

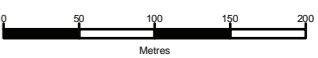

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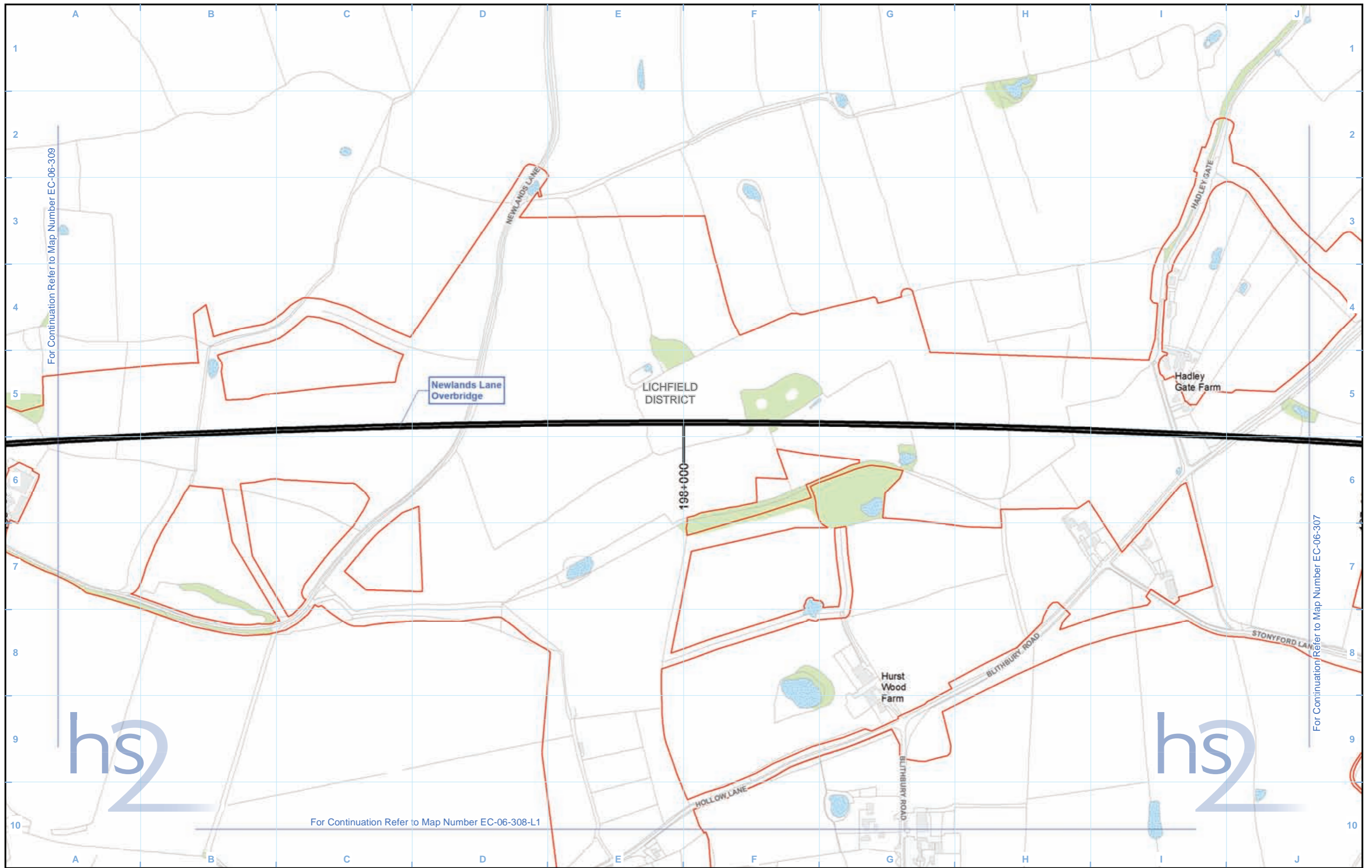
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For Continuation Refer to Map Number EC-06-307

For Continuation Refer to Map Number EC-06-308-L1

Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Bat activity static detector location
	Community area boundary		Activity transect route
	County boundary		Assumed key commuting route
	District/Borough boundary		Assumed key areas of foraging habitat

Map Number	EC-06-308
Map Name	Bat - Activity
Community Area 1: Fradley to Colton	

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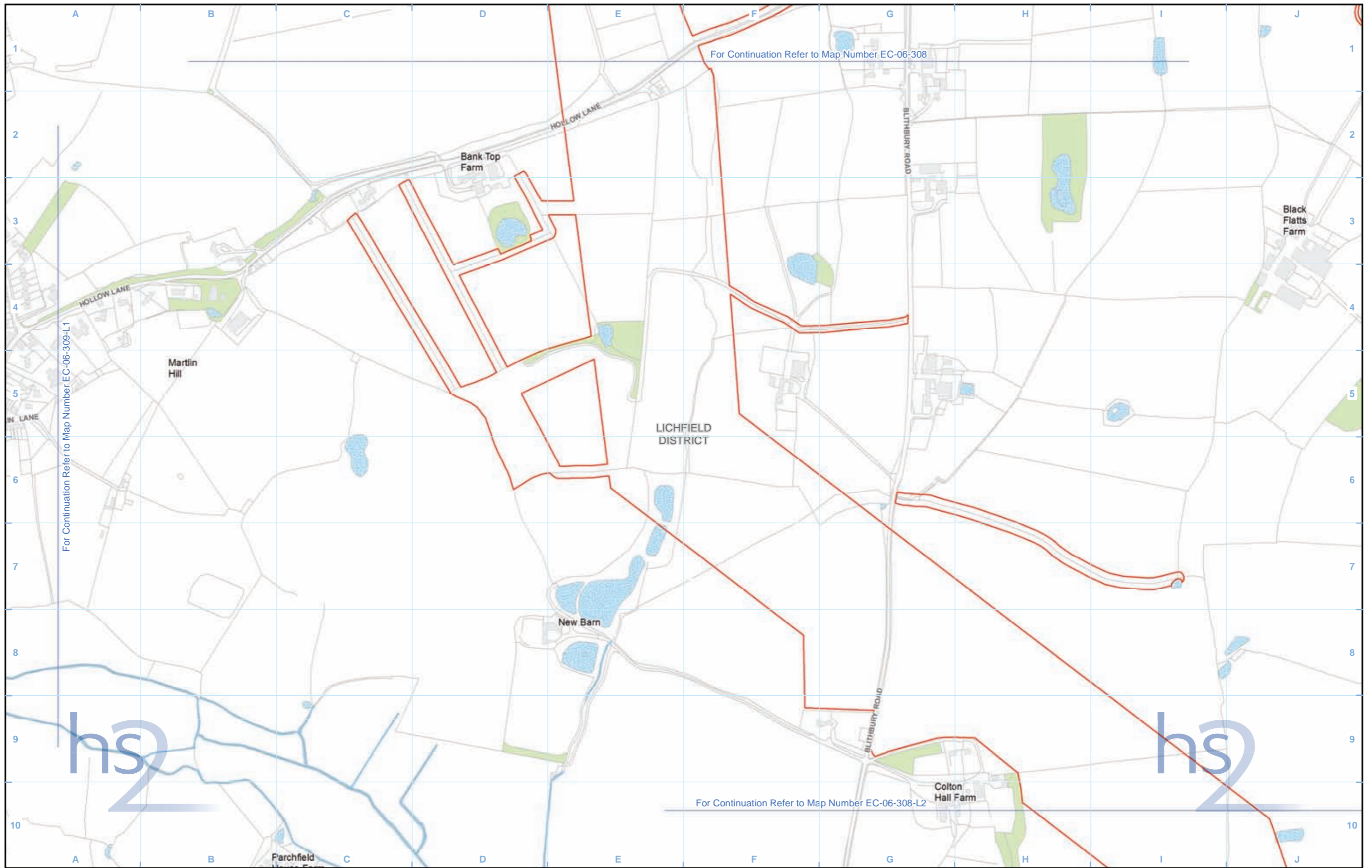
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Date: 14/06/17



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For Continuation Refer to Map Number EC-06-309-L1

For Continuation Refer to Map Number EC-06-308-L2

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat

Map Number	EC-06-308-L1
Map Name	Bat - Activity
Community Area 1: Fradley to Colton	

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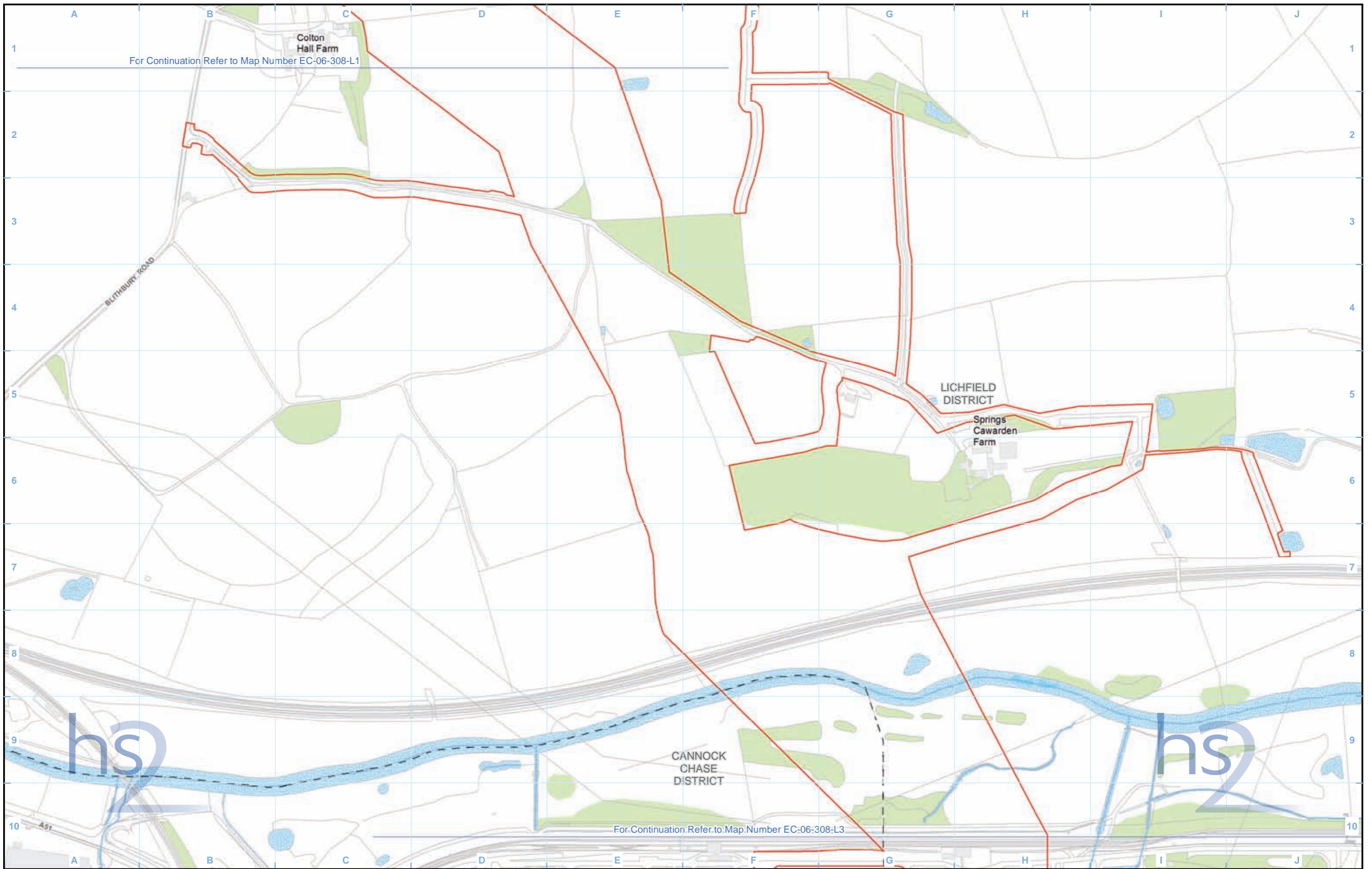
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**Legend**


	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)

	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat

Map Number	EC-06-308-L2
Map Name	Bat - Activity
Community Area 1: Fradley to Colton	

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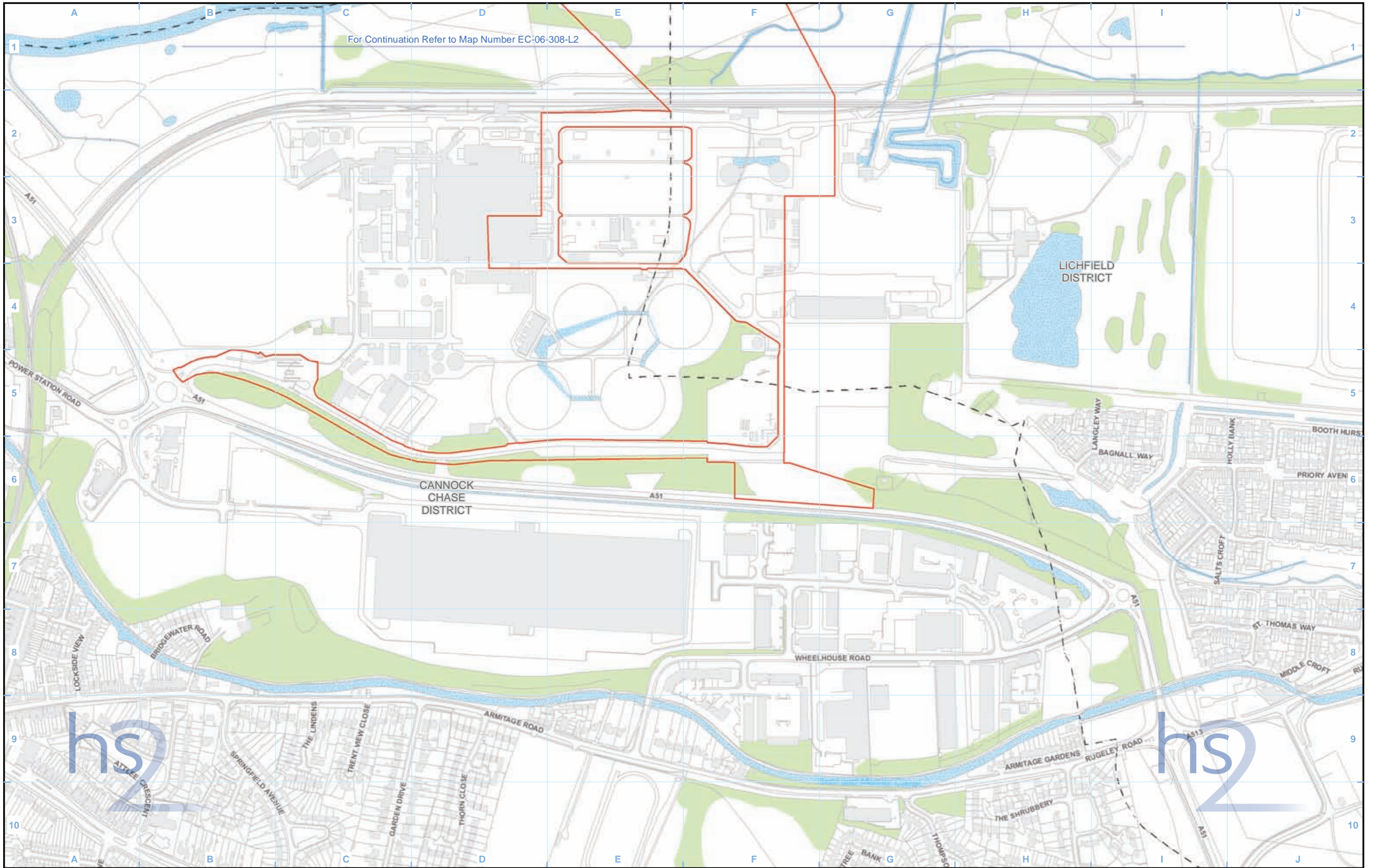
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Date: 14/06/17




For Continuation Refer to Map Number EC-06-308-L2

- Legend**
- Route in bored tunnel
  - Route on surface
  - █ Depot, station, headhouse or portal building
  - █ Land potentially required during construction
  - █ Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- █ Water body
- █ Woodland (verified by survey)

- █ Bat activity static detector location
- Activity transect route
- ↔ Assumed key commuting route
- █ Assumed key areas of foraging habitat

Map Number	EC-06-308-L3
Map Name	Bat - Activity
Community Area 1: Fradley to Colton	


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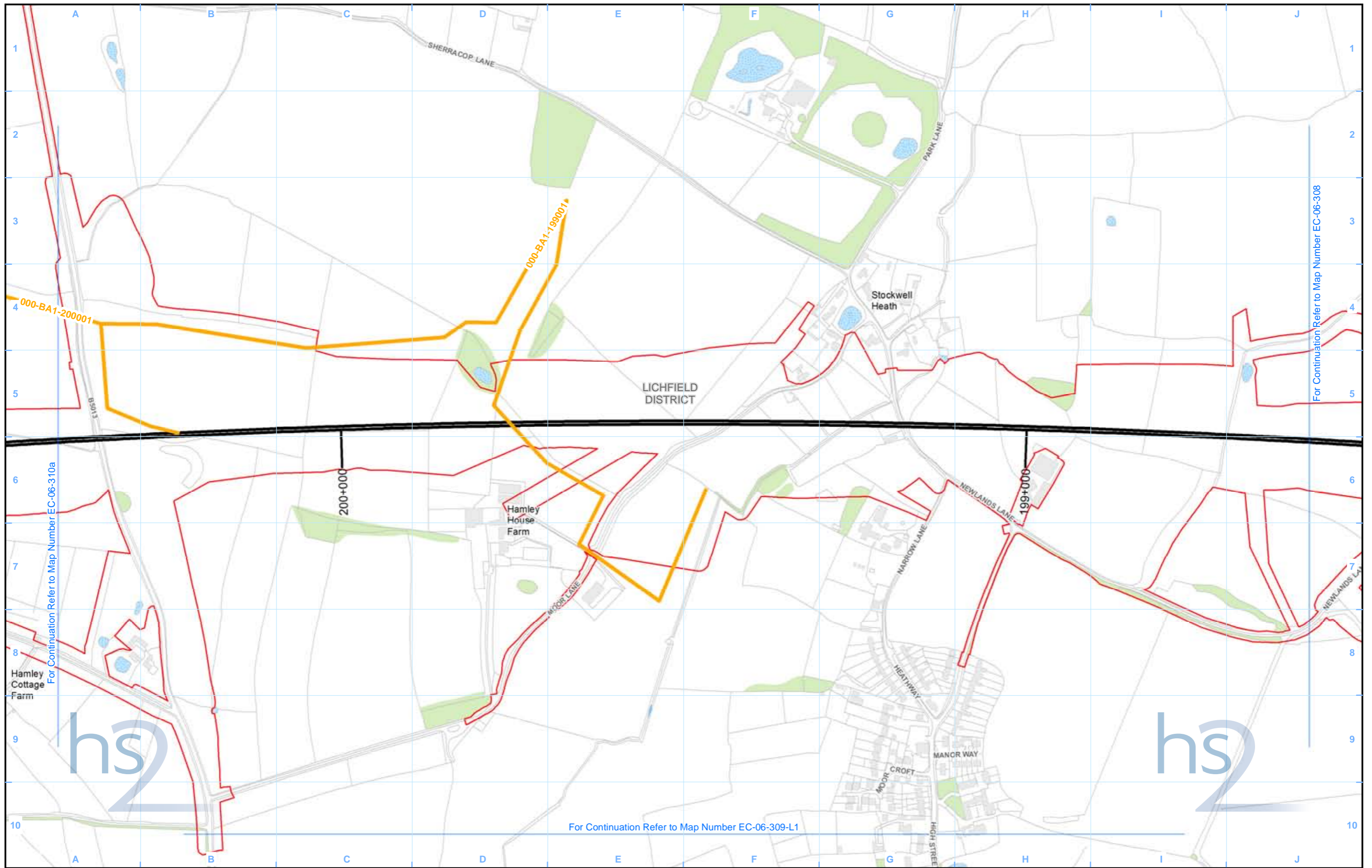
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0 50 100 150 200 Metres

Doc Number: C861-ARP-EV-MAP-000-076608-P03 Date: 14/06/17



**Legend**

	Route in bored tunnel		Watercourse		Bat activity static detector location
	Route on surface		Water body		Activity transect route
	Depot, station, headhouse or portal building		Woodland (verified by survey)		Assumed key commuting route
	Land potentially required during construction				Assumed key areas of foraging habitat
	Community area boundary				
	County boundary				
	District/Borough boundary				

Map Number	EC-06-309
Map Name	Bat - Activity
Community Area 1:	Fradley to Colton

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Metres

Date: 14/06/17

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For Continuation Refer to Map Number EC-06-308

For Continuation Refer to Map Number EC-06-309-L1

For Continuation Refer to Map Number EC-06-308

For Continuation Refer to Map Number EC-06-309-L1

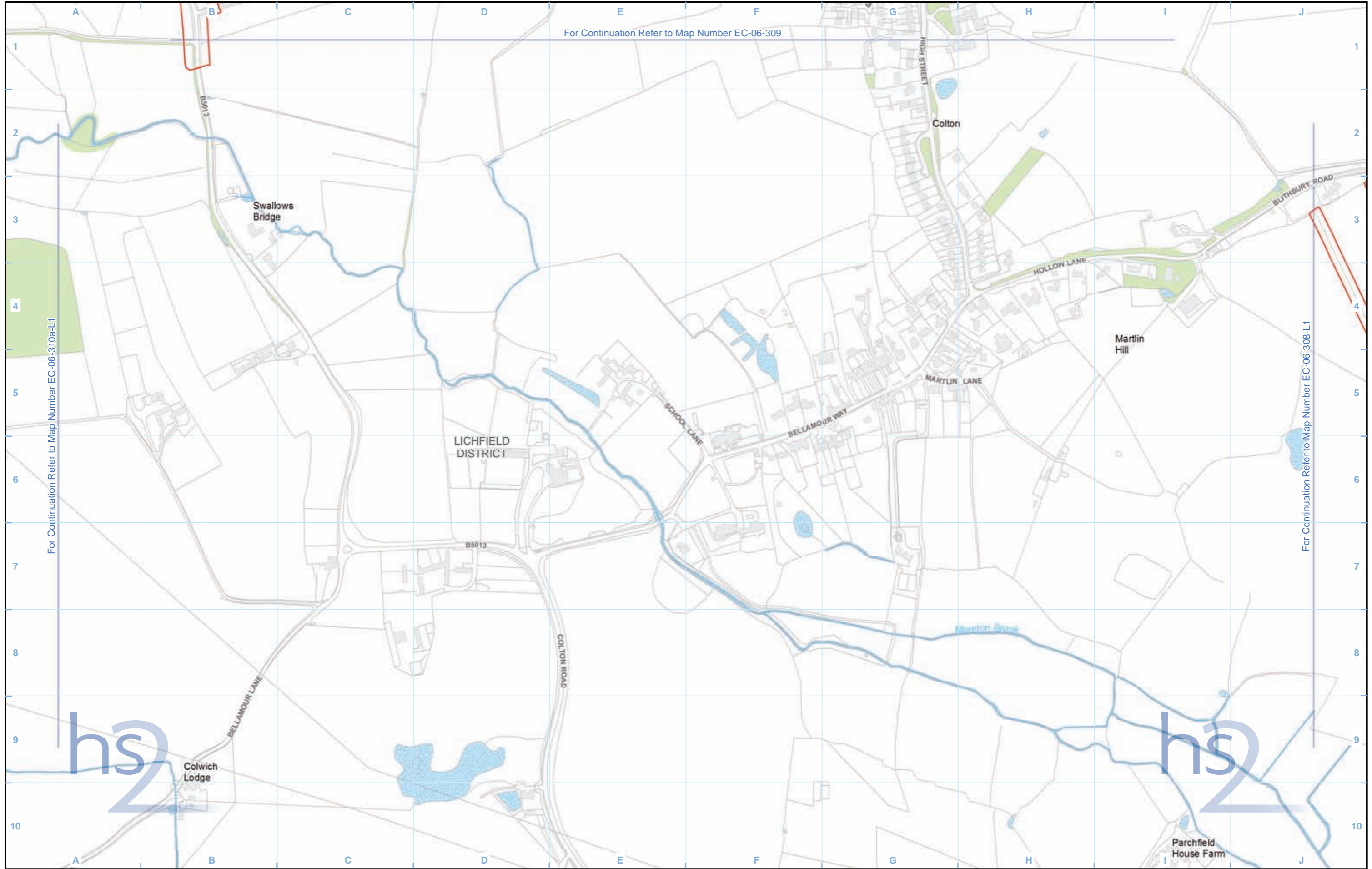
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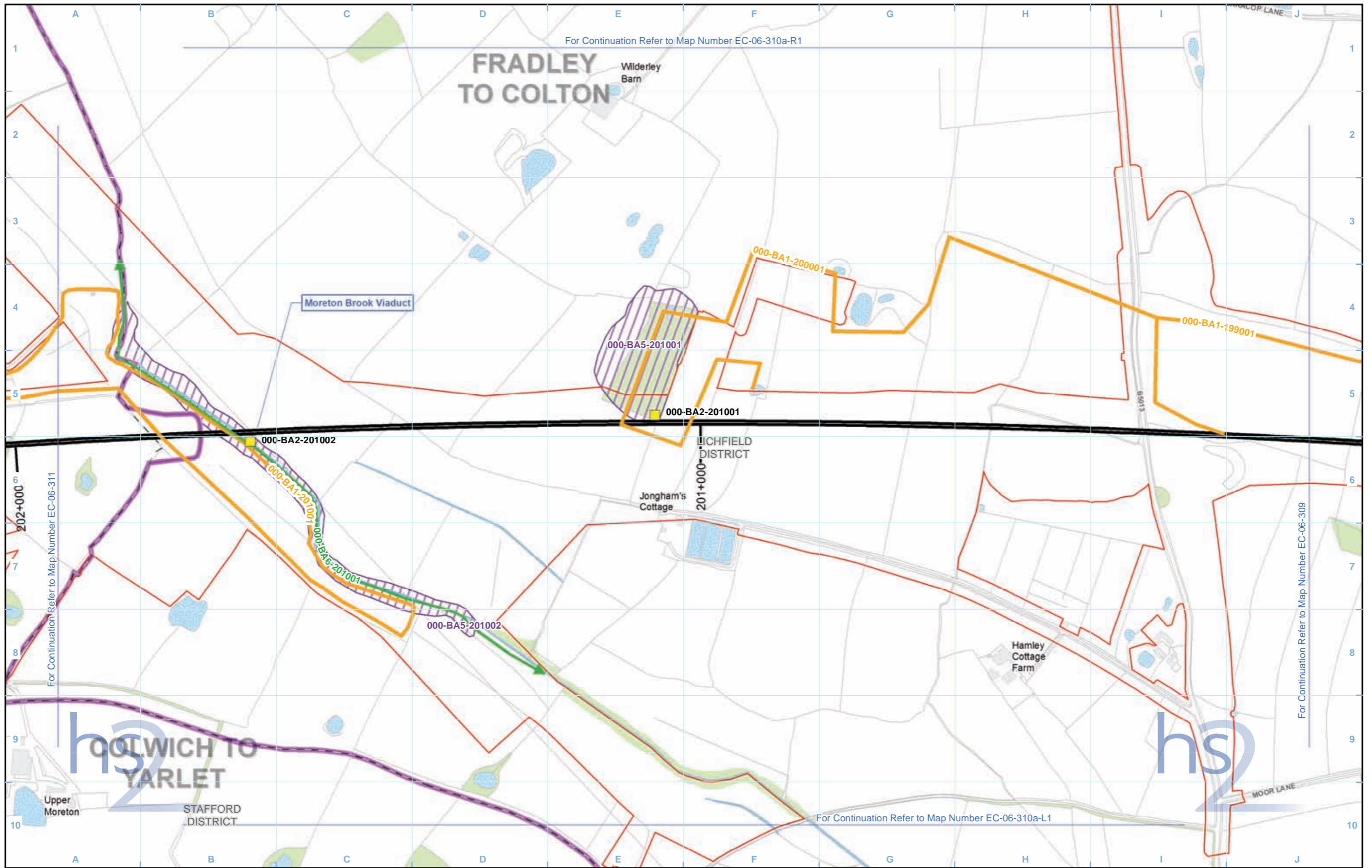
For Continuation Refer to Map Number EC-06-309



For Continuation Refer to Map Number EC-06-310a-L1

For Continuation Refer to Map Number EC-06-308-L1

<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
<b>Map Number</b> EC-06-309-L1				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
<b>Map Name</b> Bat - Activity		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area 1:</b> Fradley to Colton		<small>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</small>		<b>Doc Number:</b> C861-ARP-EV-MAP-000-076409-P03	
				<b>Date:</b> 14/06/17	



For Continuation Refer to Map Number EC-06-310a-R1

# FRADLEY TO COLTON

Wilderley Barn

Moreton Brook Viaduct

000-BA5-201001

000-BA1-200001

000-BA1-199001

000-BA2-201001

000-BA2-201002

000-BA1-201001

000-BA6-201001

000-BA5-201002

LICHFIELD DISTRICT

Jongham's Cottage

201+000

Hamley Cottage Farm

# COLWICH TO YARLET

Upper Moreton

STAFFORD DISTRICT

For Continuation Refer to Map Number EC-06-310a-L1

For Continuation Refer to Map Number EC-06-309

- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)

- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number	EC-06-310a
Map Name	Bat - Activity
	Community Area 1: Fradley to Colton

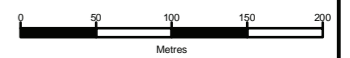


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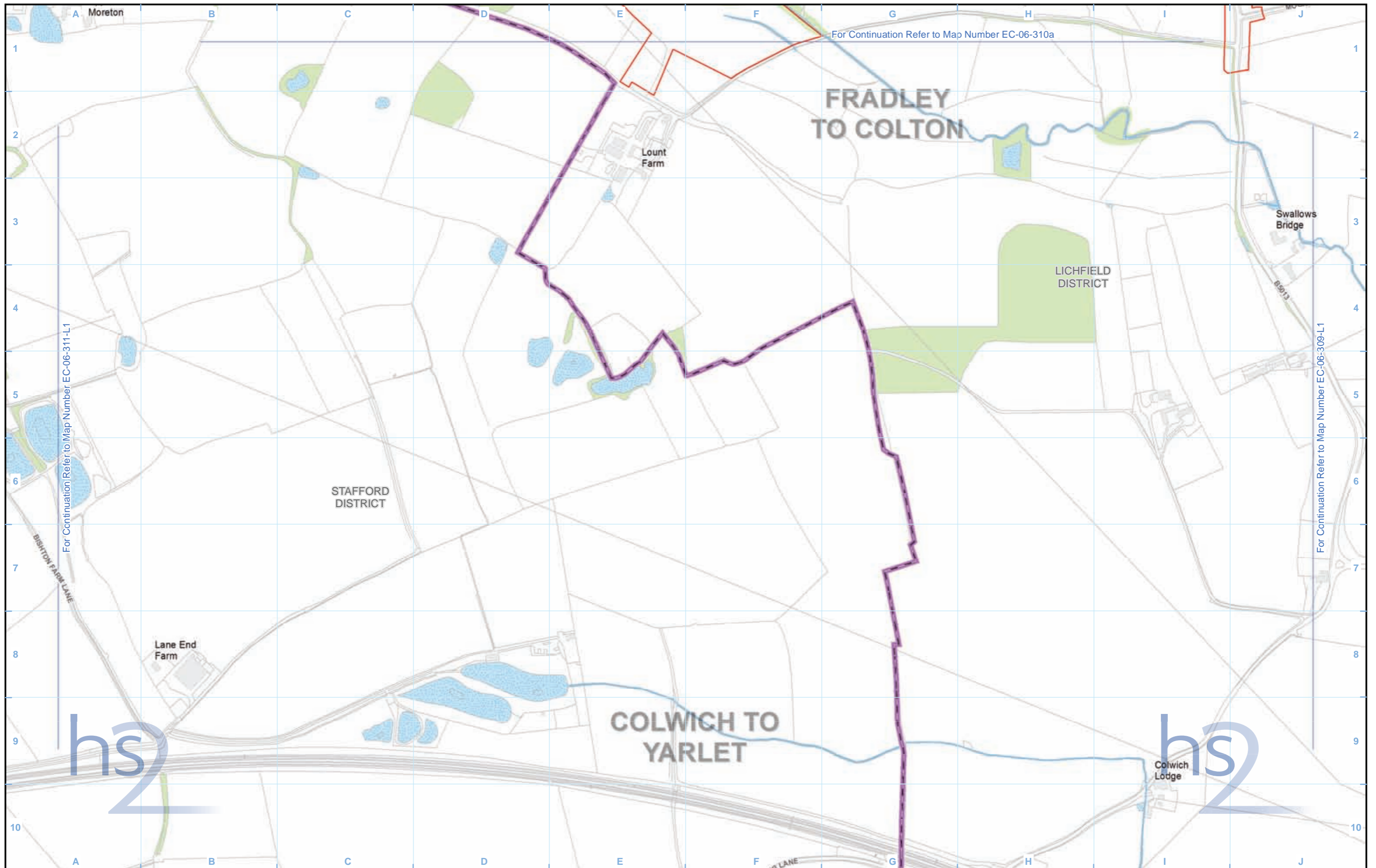
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Date: 14/06/17



**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number EC-06-310a-L1

Map Name Bat - Activity

Community Area 1:  
Fradley to Colton



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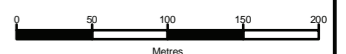


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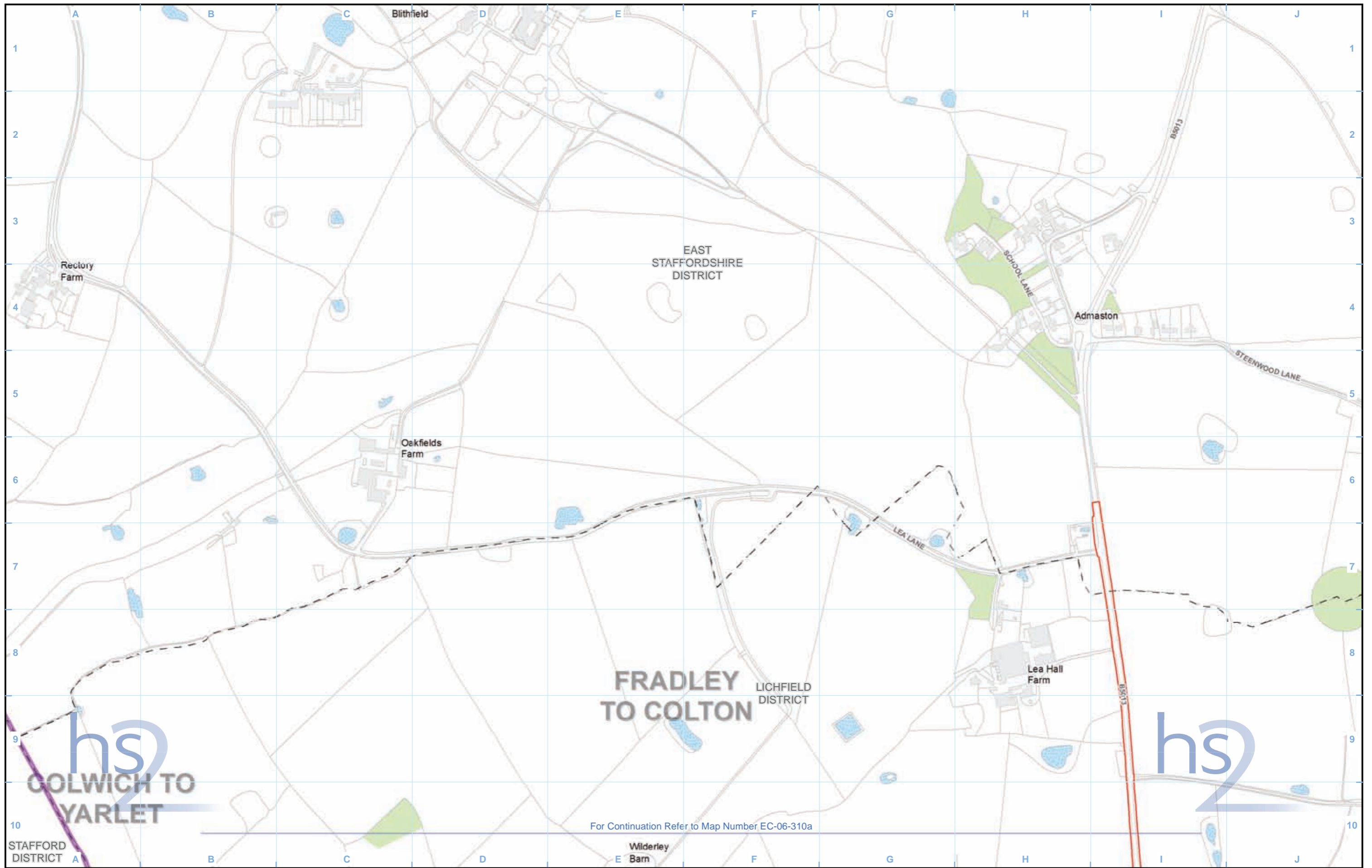
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**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

STAFFORD DISTRICT

Wilderley Barn

For Continuation Refer to Map Number EC-06-310a

Map Number EC-06-310-R1

Map Name Bat - Activity

Community Area 1: Fradley to Colton

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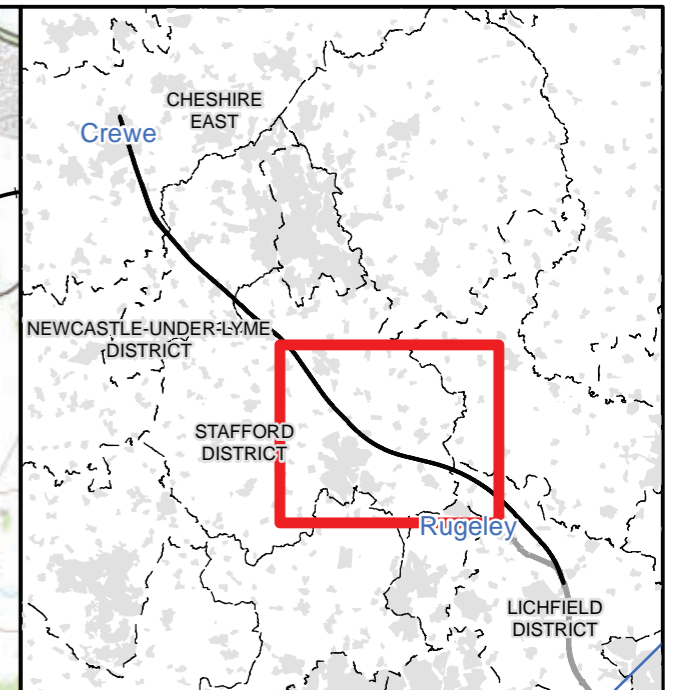
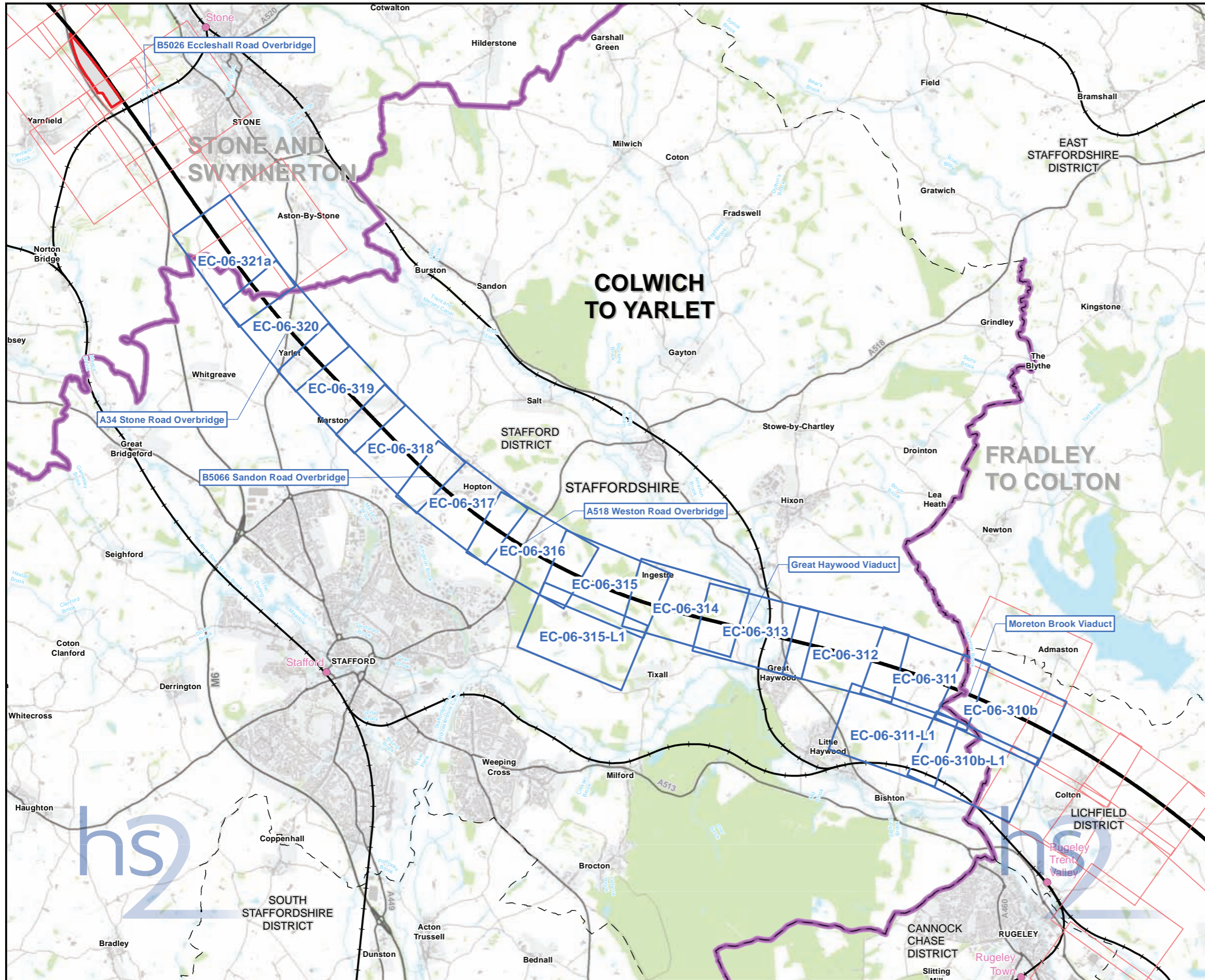
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**Map Series Information:**

This map series shows the location of bat activity surveys conducted to inform the Environmental Statement. In addition it shows the location of the key bat foraging and commuting routes which have been established on the basis of the survey work conducted.

**Main Map Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number	EC-06-INDEX-CA2
Map Name	Index Map of: Bat - Activity
	Community Area 2: Colwich to Yarlet

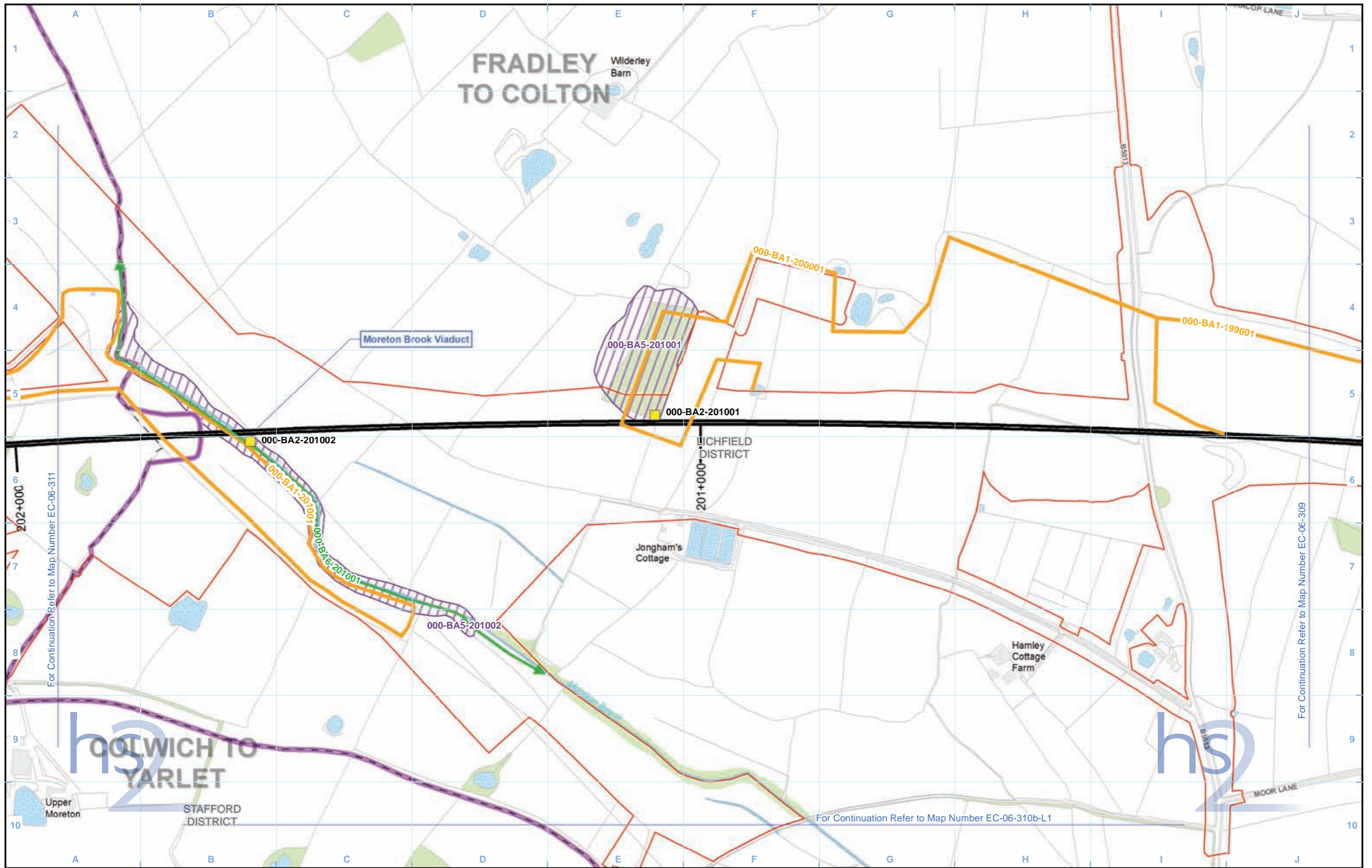
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Doc Number: C861-ARP-EV-MAP-000-076002-P03 **Date: 14/06/17**



Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Bat activity static detector location
	Community area boundary		Activity transect route
	County boundary		Assumed key commuting route
	District/Borough boundary		Assumed key areas of foraging habitat

Map Number	EC-06-310b
Map Name	Bat - Activity
	Community Area 2: Colwich to Yarlet

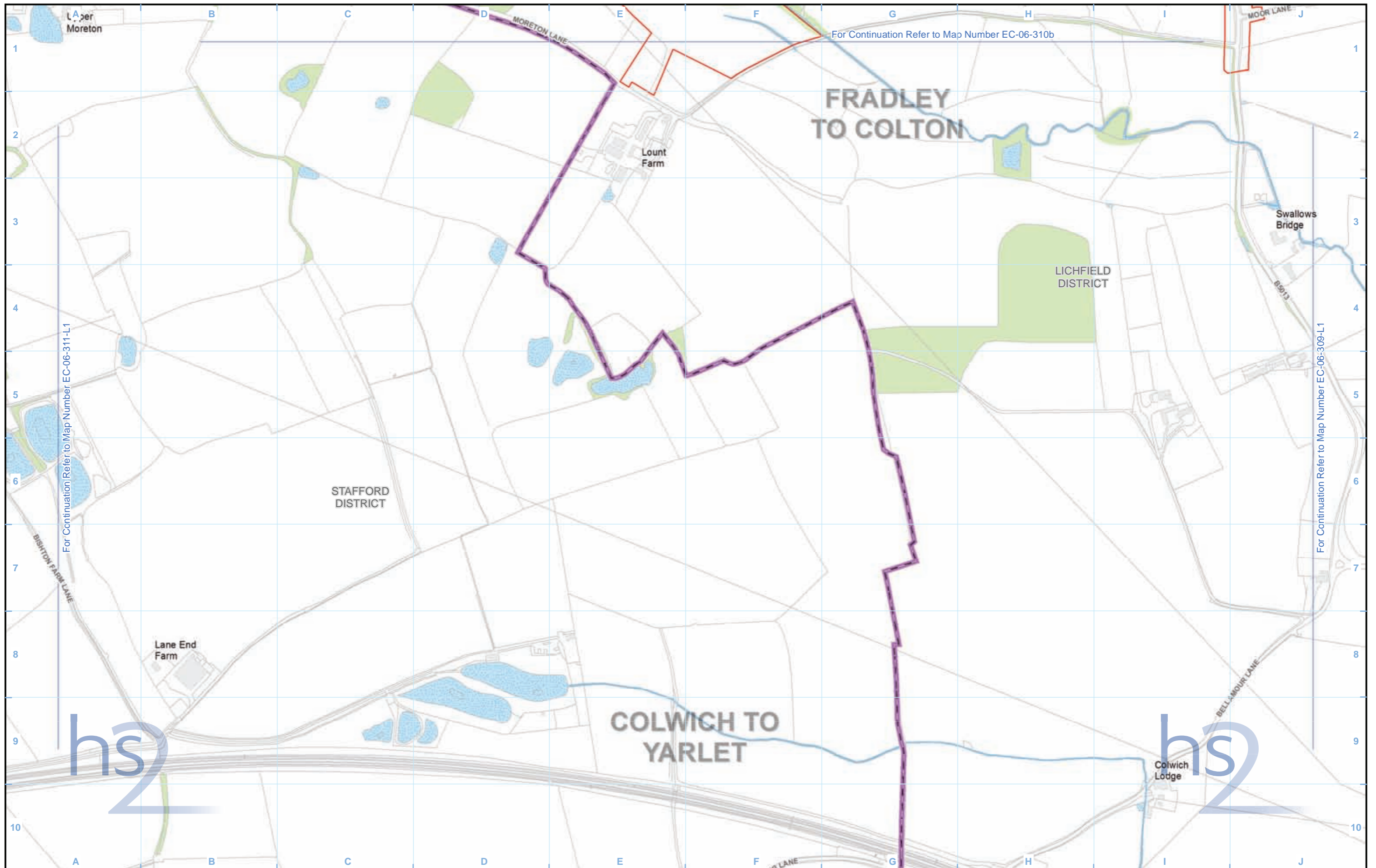
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**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number	EC-06-310b-L1
Map Name	Bat - Activity
Community Area 2: Colwich to Yarlet	

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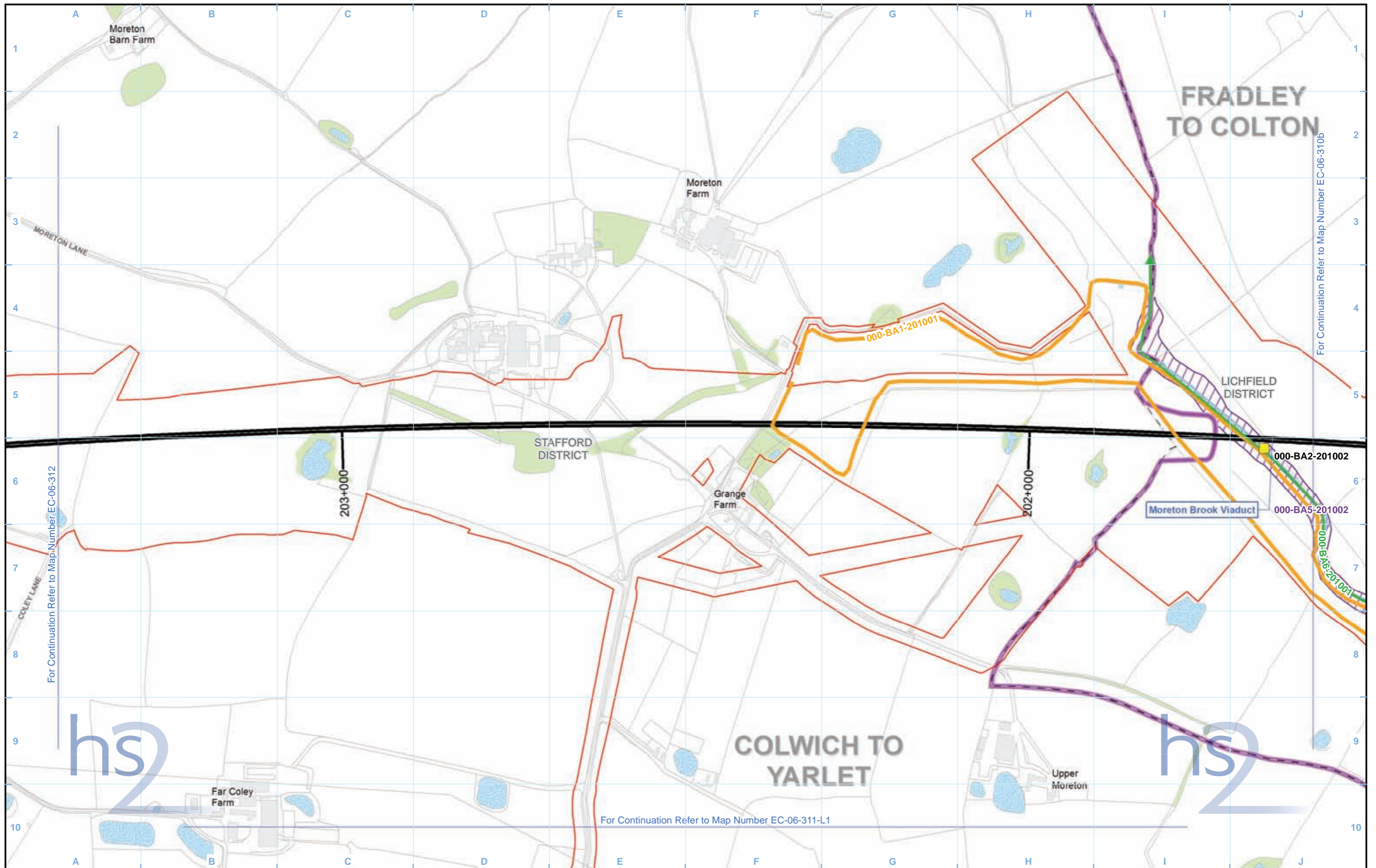
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Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Bat activity static detector location
	Community area boundary		Activity transect route
	County boundary		Assumed key commuting route
	District/Borough boundary		Assumed key areas of foraging habitat


Map Number	EC-06-311
Map Name	Bat - Activity
Community Area 2: Colwich to Yarlet	


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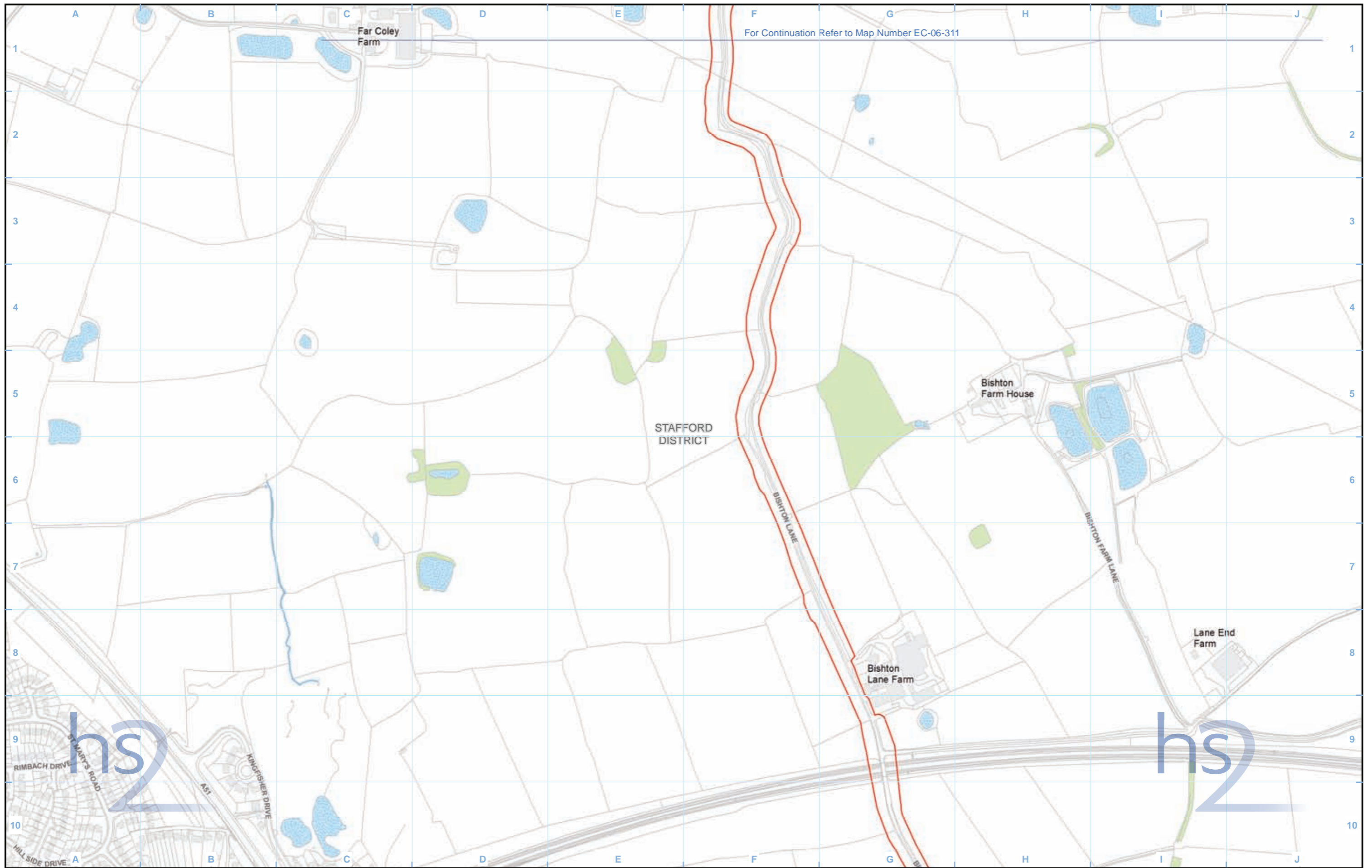
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Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Activity transect route
	Community area boundary		Assumed key commuting route
	County boundary		Assumed key areas of foraging habitat
	District/Borough boundary		

Map Number	EC-06-311-L1
Map Name	Bat - Activity
	Community Area 2: Colwich to Yarlet




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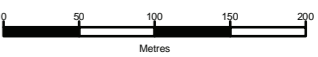
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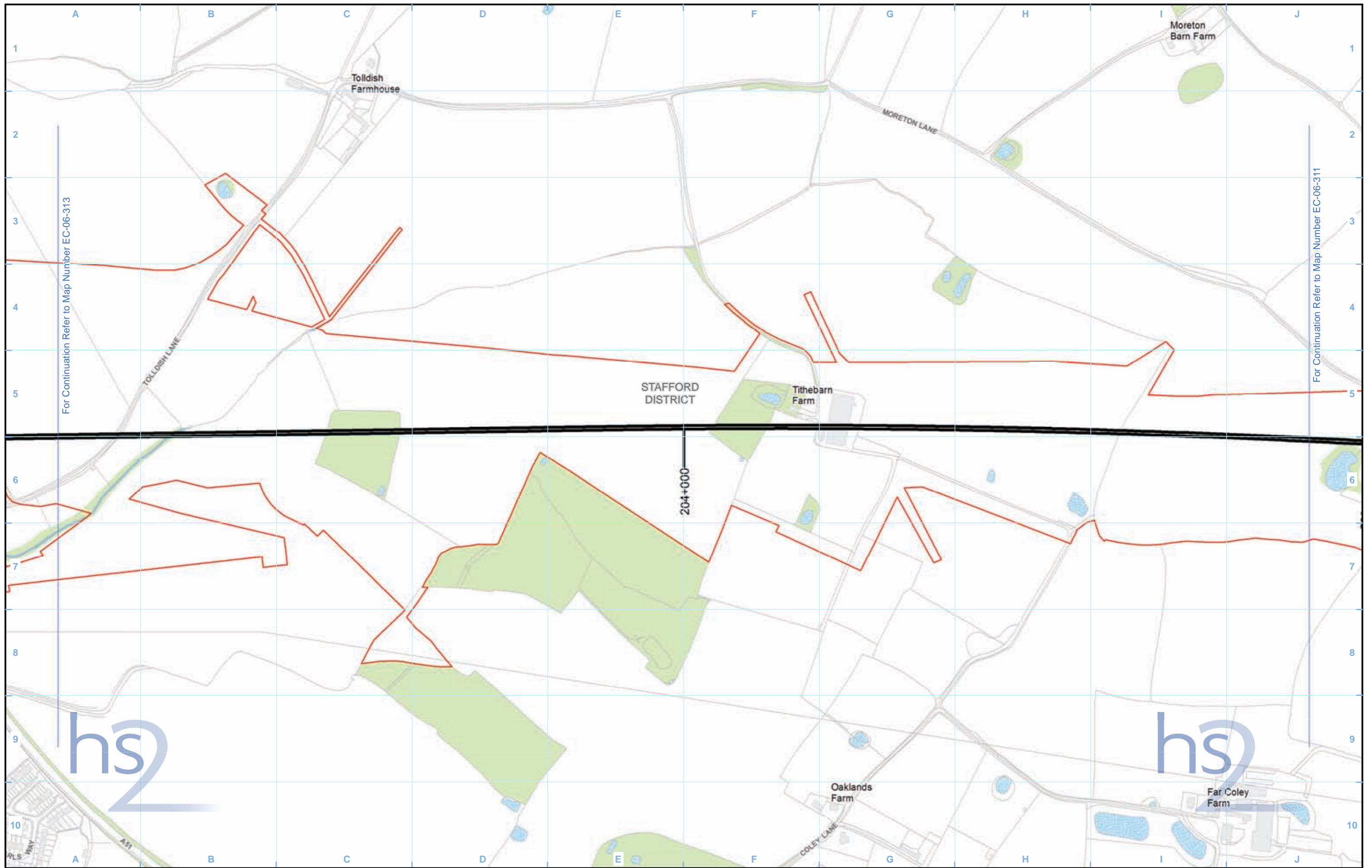


Scale at A3: 1:5,000



Metres

Date: 14/06/17




For Continuation Refer to Map Number EC-06-313

For Continuation Refer to Map Number EC-06-311

204+000

Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Bat activity static detector location
	Community area boundary		Activity transect route
	County boundary		Assumed key commuting route
	District/Borough boundary		Assumed key areas of foraging habitat

Map Number	EC-06-312
Map Name	Bat - Activity
Community Area 2: Colwich to Yarlet	




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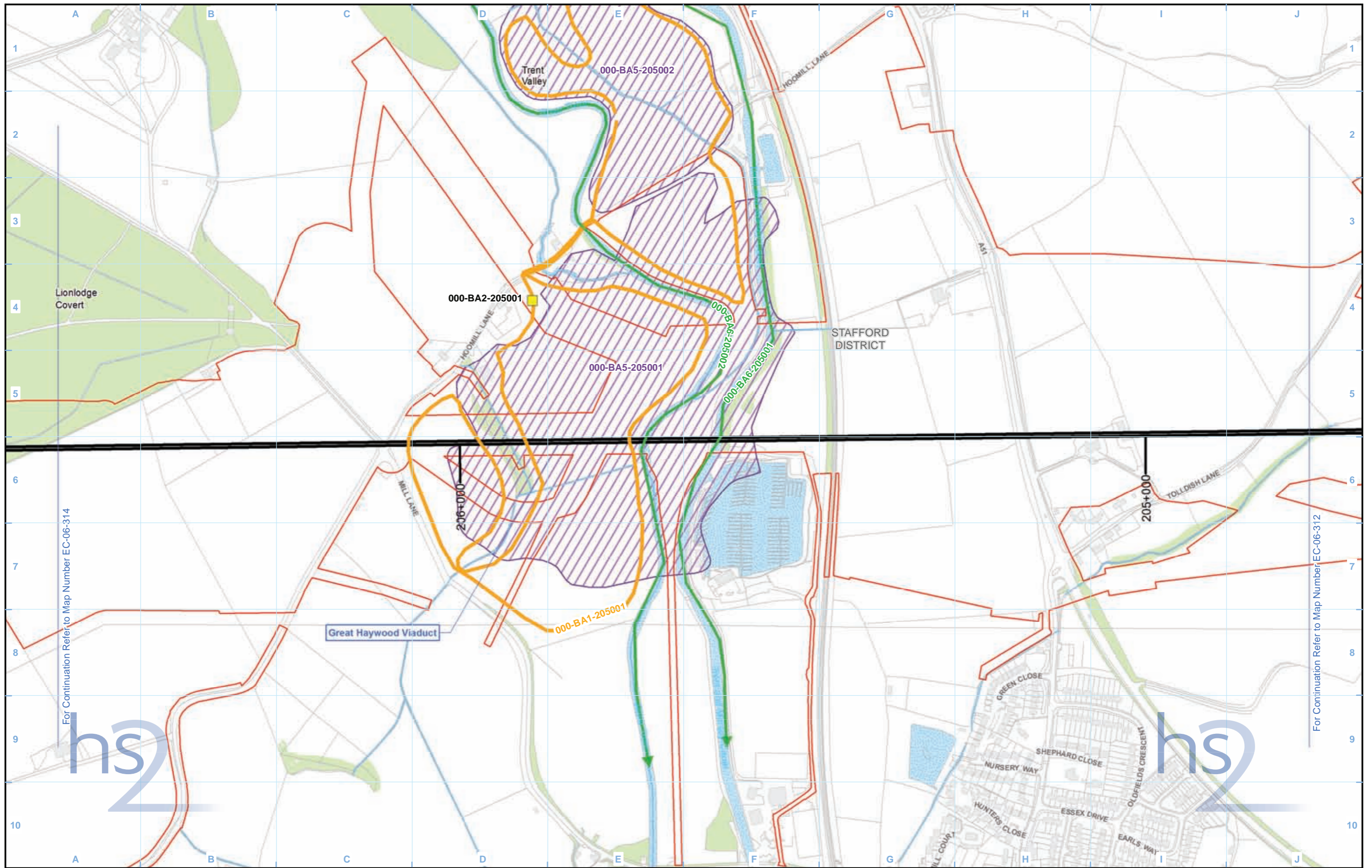


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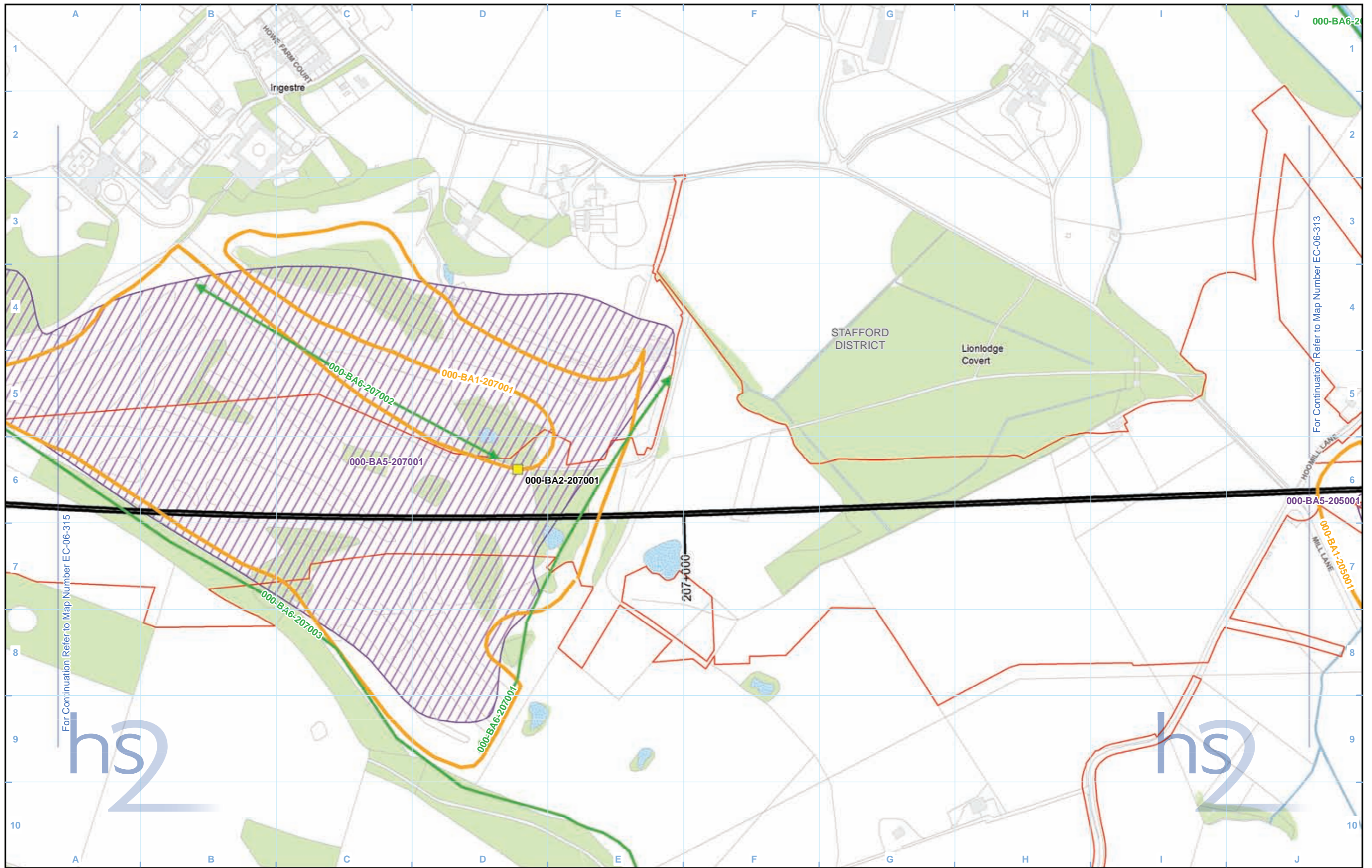
Date: 14/06/17



For Continuation Refer to Map Number EC-06-314

For Continuation Refer to Map Number EC-06-312

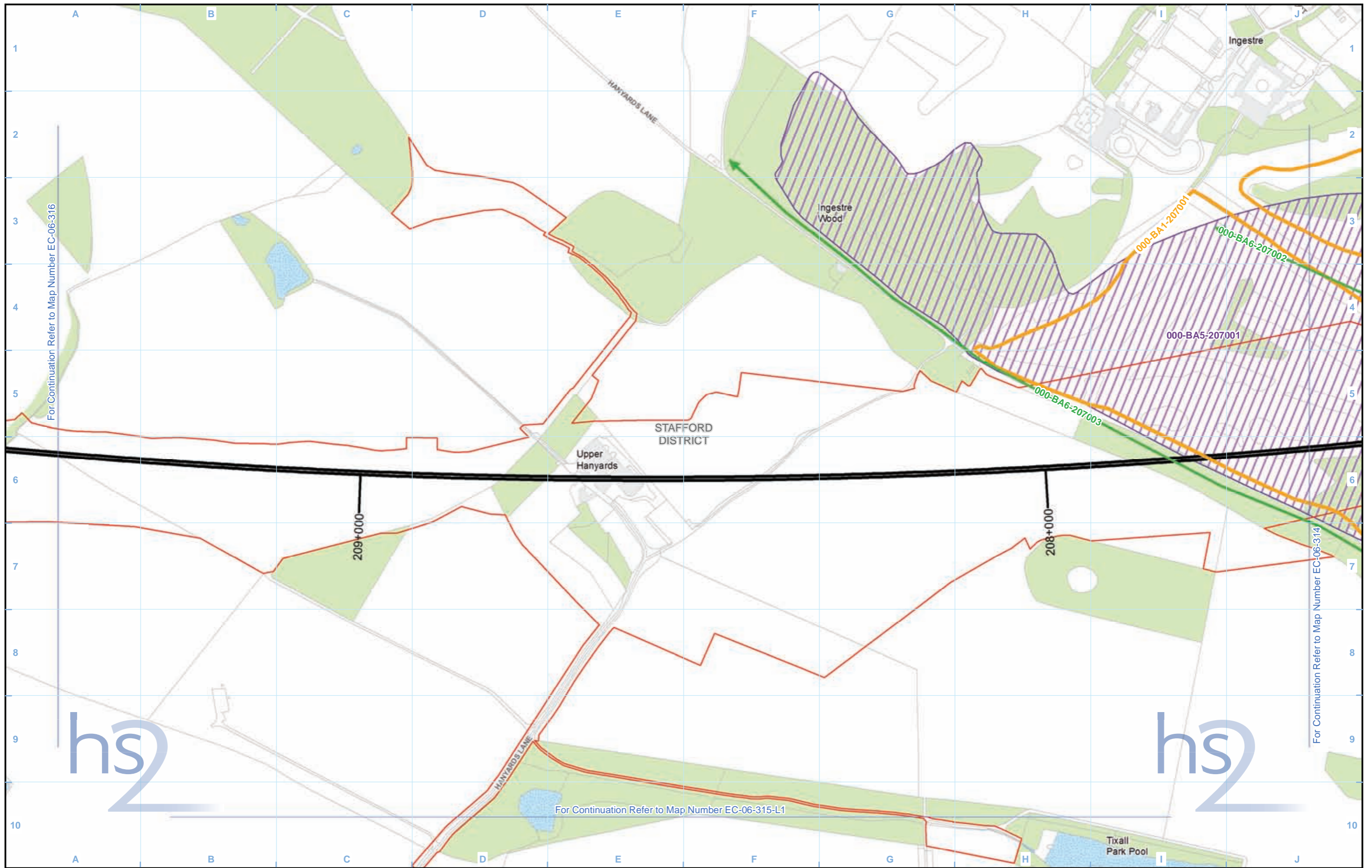
<b>Legend</b> <ul style="list-style-type: none"> <li> Route in bored tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li> Bat activity static detector location</li> <li> Activity transect route</li> <li> Assumed key commuting route</li> <li> Assumed key areas of foraging habitat</li> </ul>		<p>Map Number: EC-06-313</p> <p>Map Name: Bat - Activity</p> <p>Community Area 2: Colwich to Yarlet</p>	<p> HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C861-ARP-EV-MAP-000-076313-P03</p>
		<p>Scale at A3: 1:5,000</p> <p></p> <p>Metres</p>	<p></p> <p>Date: 14/06/17</p>



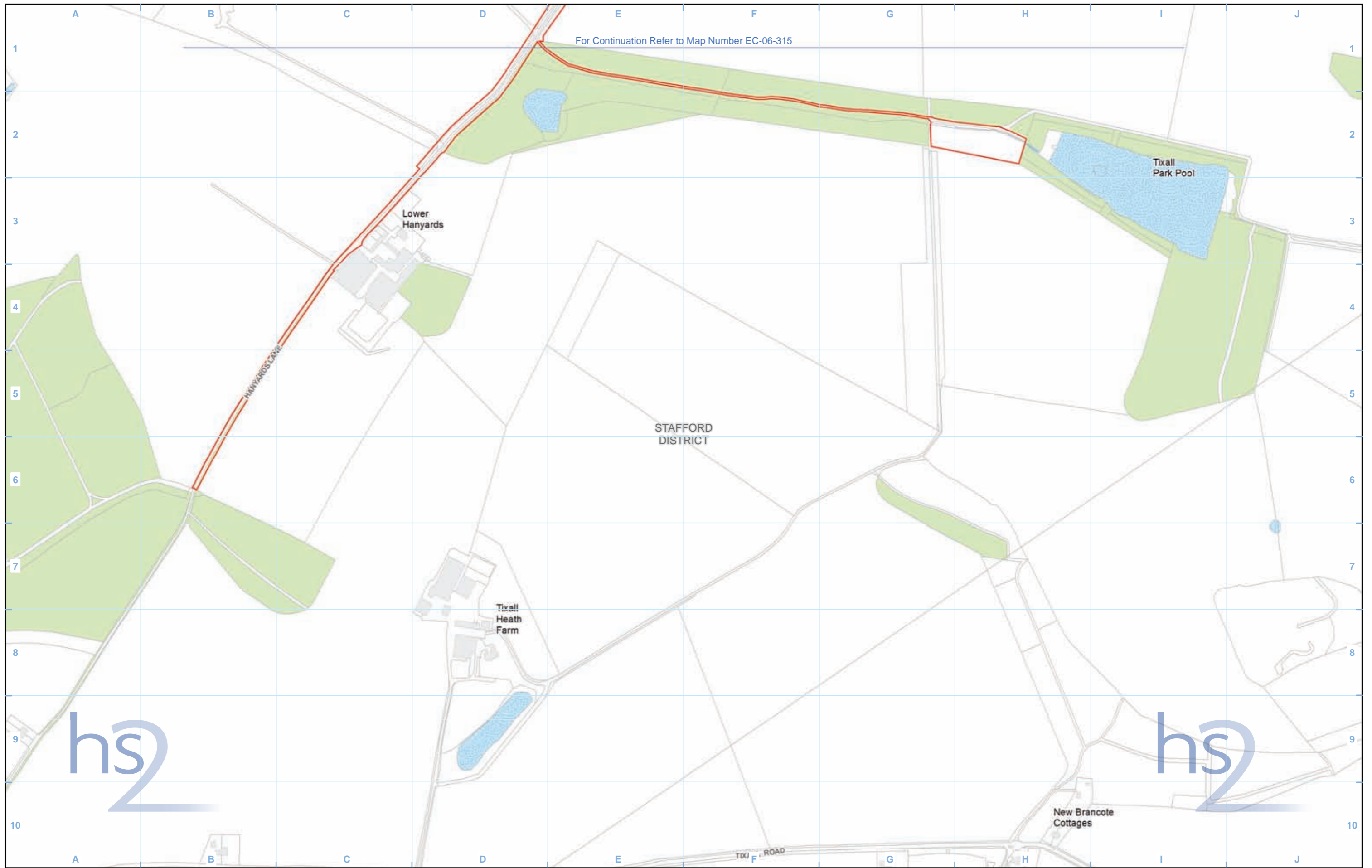
For Continuation Refer to Map Number EC-06-315

For Continuation Refer to Map Number EC-06-313

<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
<b>Map Number</b> EC-06-314				HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.	
<b>Map Name</b> Bat - Activity		Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.		Scale at A3: 1:5,000 	
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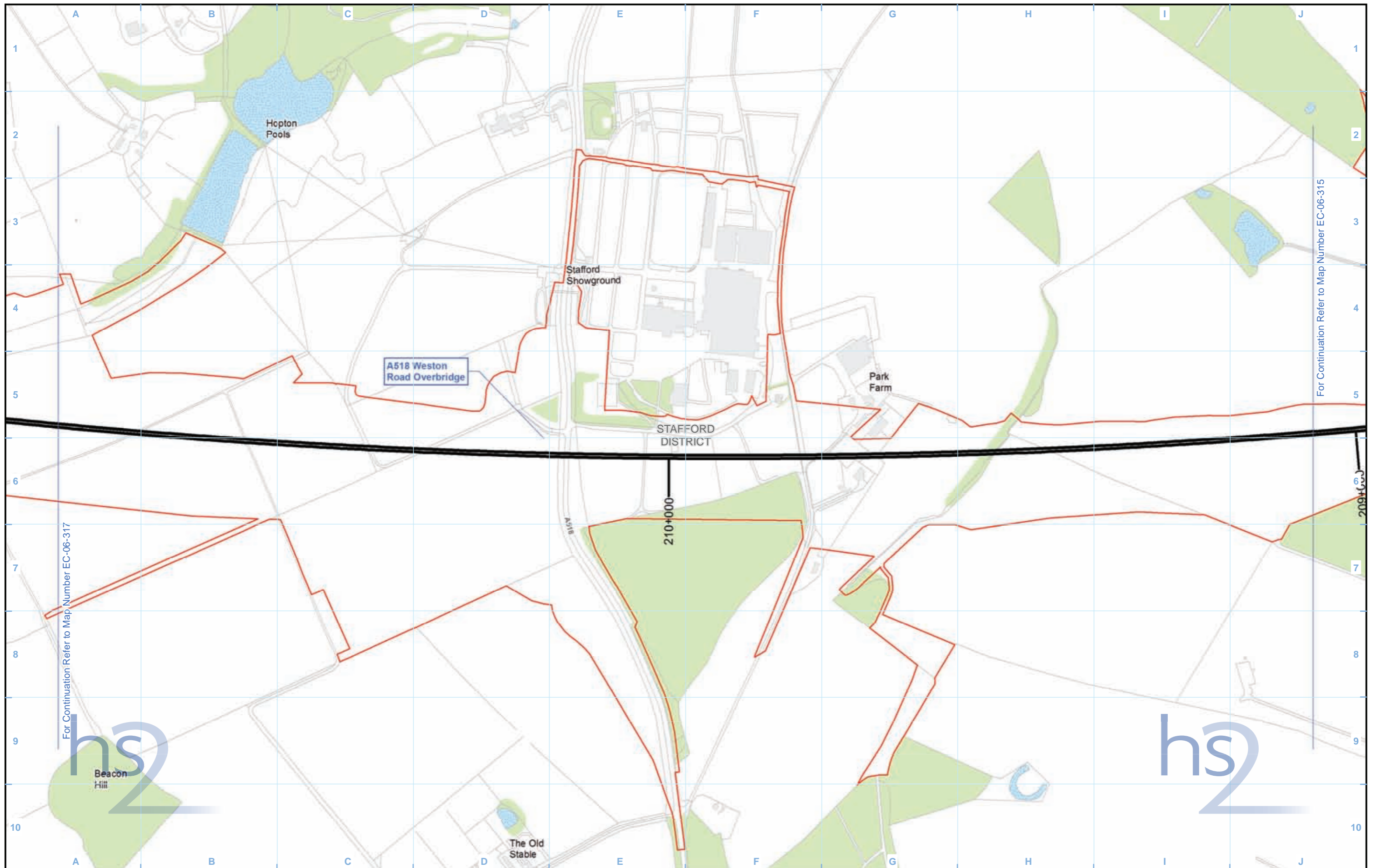


<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
Map Number <b>EC-06-315</b>				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small> 	
Map Name <b>Bat - Activity</b>		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		Scale at A3: 1:5,000 	
Community Area 2: Colwich to Yarlet		<small>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</small>		<small>Doc Number: C861-ARP-EV-MAP-000-076315-P03</small>	
				Date: 14/06/17	




For Continuation Refer to Map Number EC-06-315

<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
Map Number <b>EC-06-315-L1</b>				HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.	
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Community Area 2: Colwich to Yarlet		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		Doc Number: C861-ARP-EV-MAP-000-076415-P03 Date: 14/06/17	



Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Bat activity static detector location
	Community area boundary		Activity transect route
	County boundary		Assumed key commuting route
	District/Borough boundary		Assumed key areas of foraging habitat


Map Number	EC-06-316
Map Name	Bat - Activity
Community Area 2: Colwich to Yarlet	

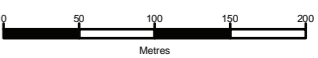

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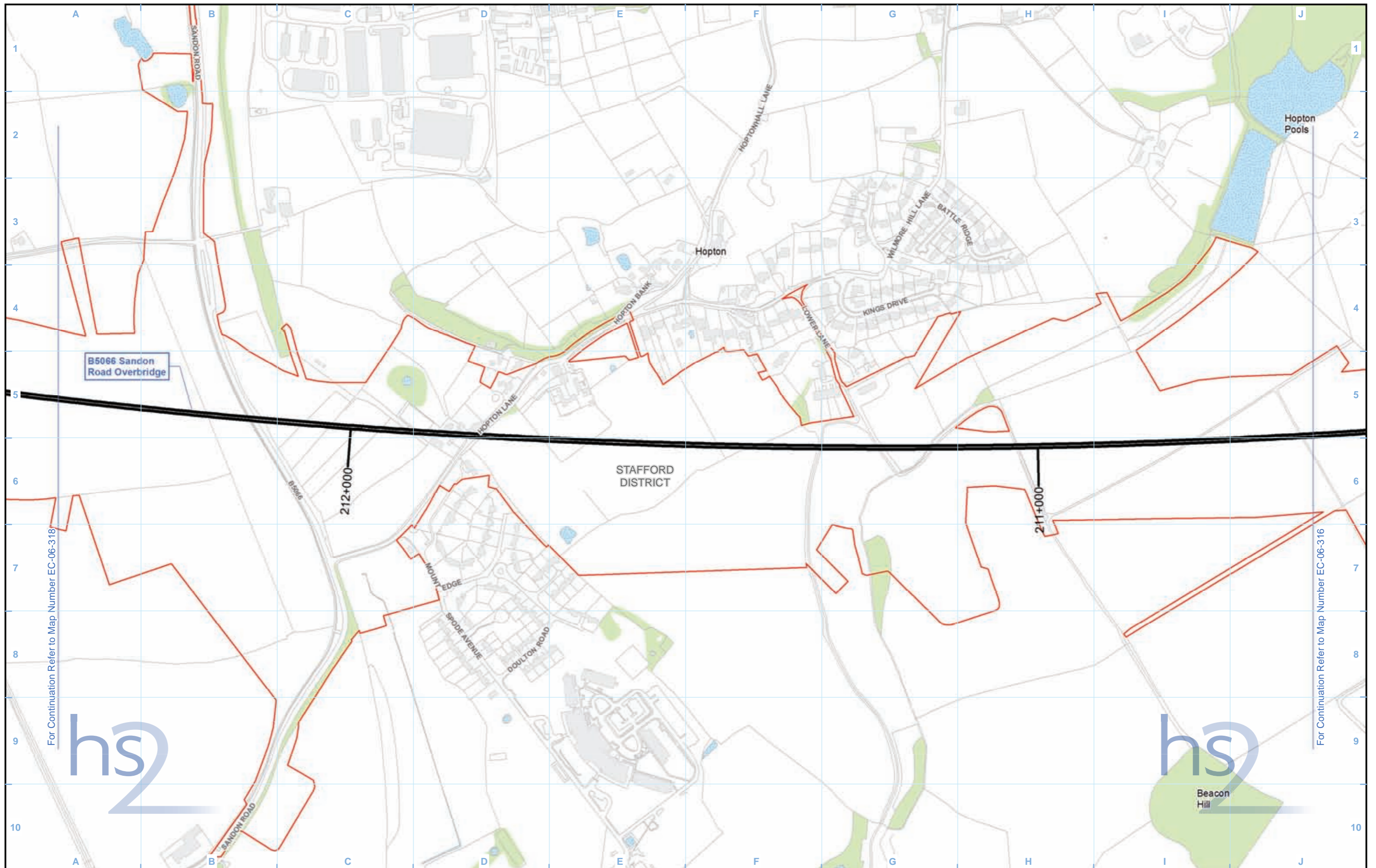
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Doc Number: C861-ARP-EV-MAP-000-076316-P03      Date: 14/06/17





Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Bat activity static detector location
	Community area boundary		Activity transect route
	County boundary		Assumed key commuting route
	District/Borough boundary		Assumed key areas of foraging habitat

Map Number	EC-06-317
Map Name	Bat - Activity
Community Area 2: Colwich to Yarlet	

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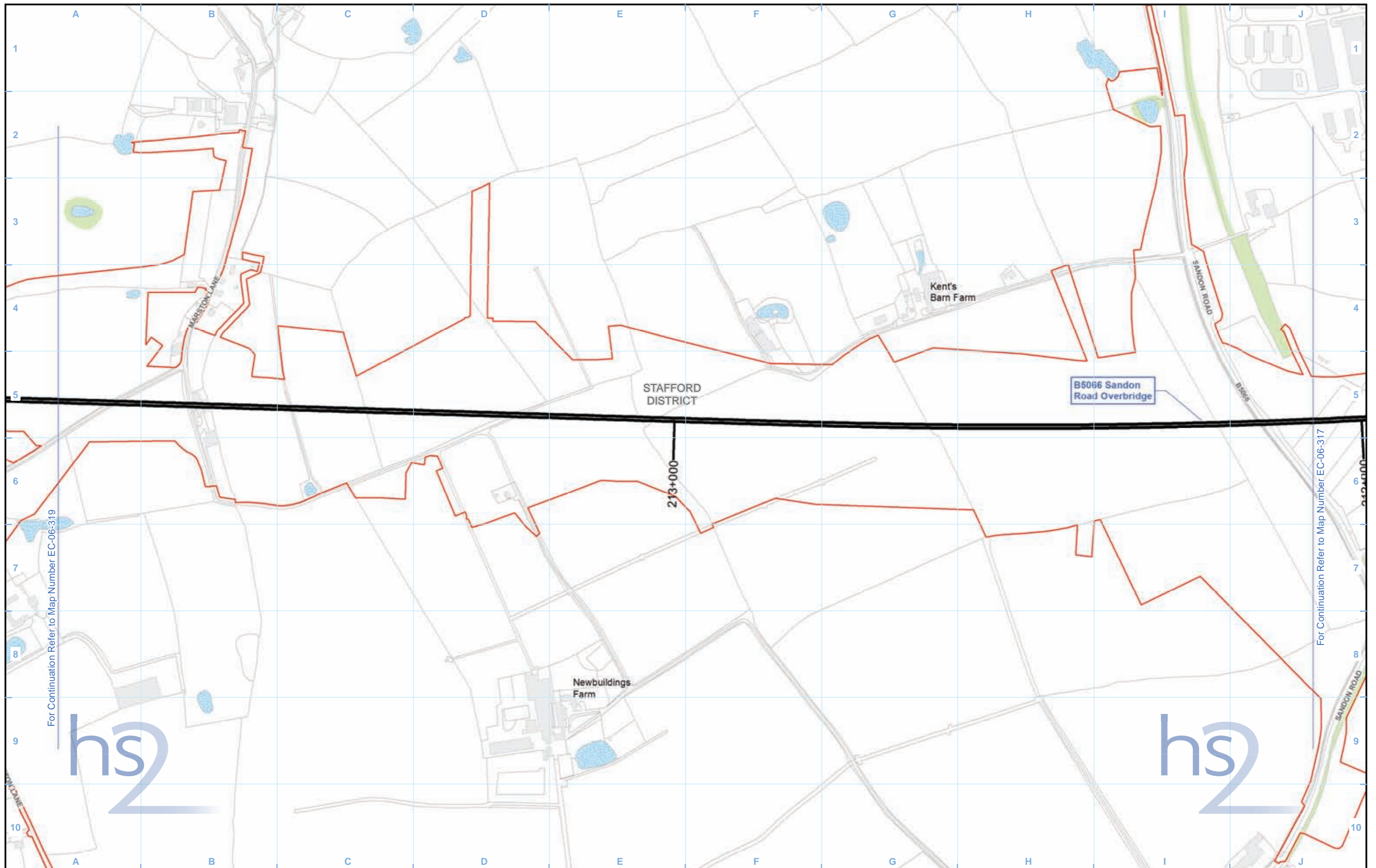
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Metres

Doc Number: C861-ARP-EV-MAP-000-076317-P03

Date: 14/06/17



Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Bat activity static detector location
	Community area boundary		Activity transect route
	County boundary		Assumed key commuting route
	District/Borough boundary		Assumed key areas of foraging habitat

Map Number	EC-06-318
Map Name	Bat - Activity
Community Area 2: Colwich to Yarlet	

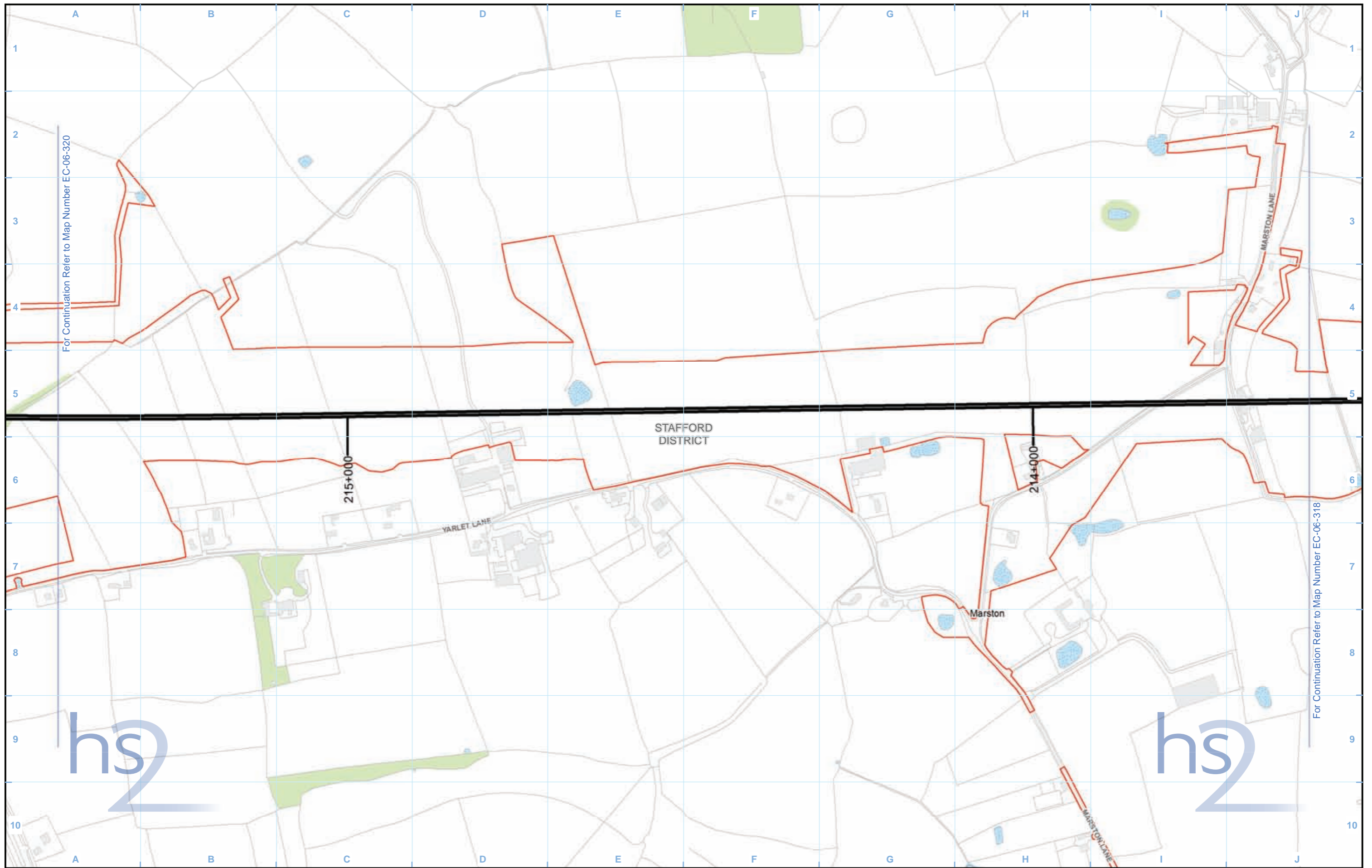
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Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Bat activity static detector location
	Community area boundary		Activity transect route
	County boundary		Assumed key commuting route
	District/Borough boundary		Assumed key areas of foraging habitat

Map Number	EC-06-319
Map Name	Bat - Activity
Community Area 2: Colwich to Yarlet	

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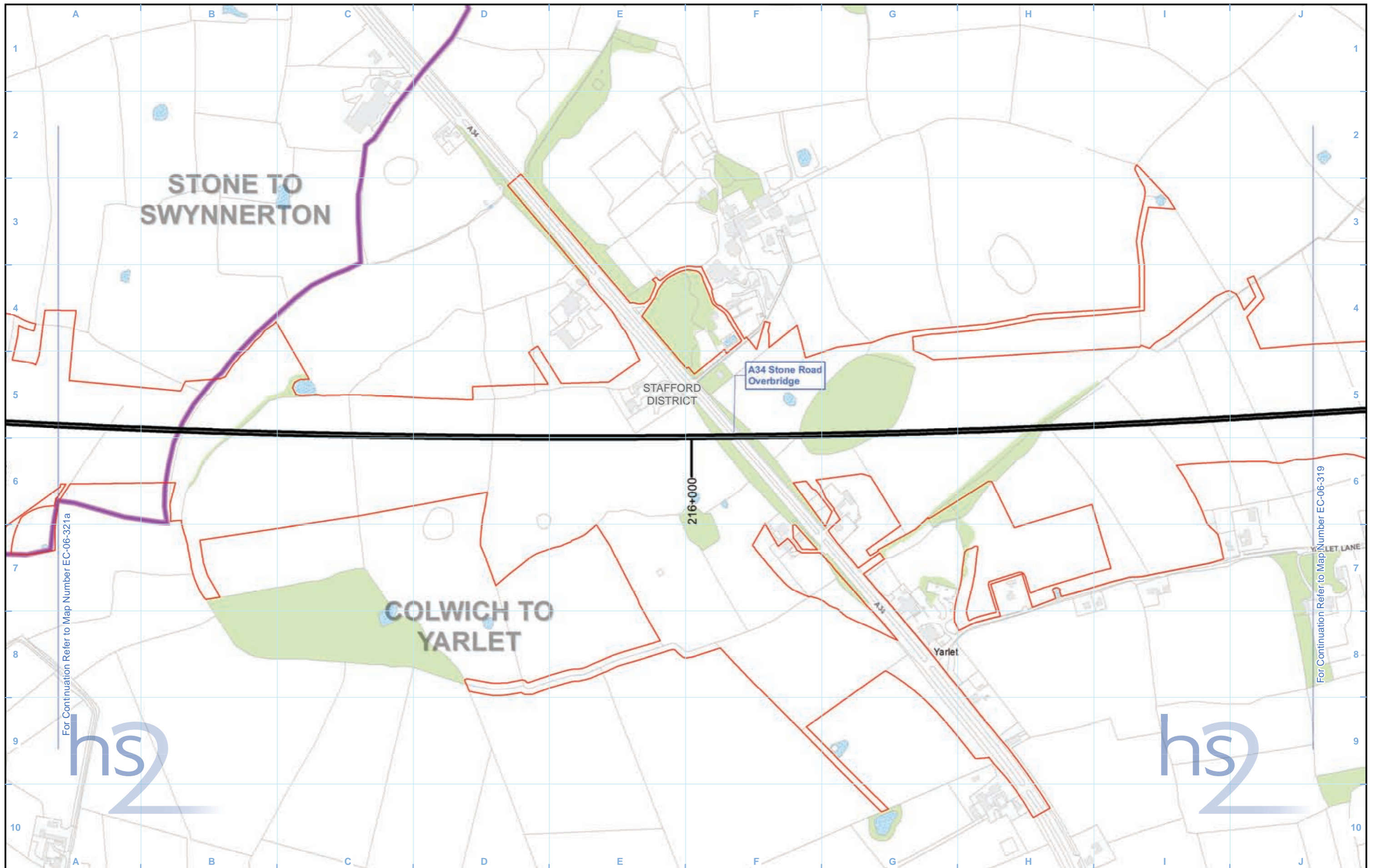
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Doc Number: C861-ARP-EV-MAP-000-076319-P03

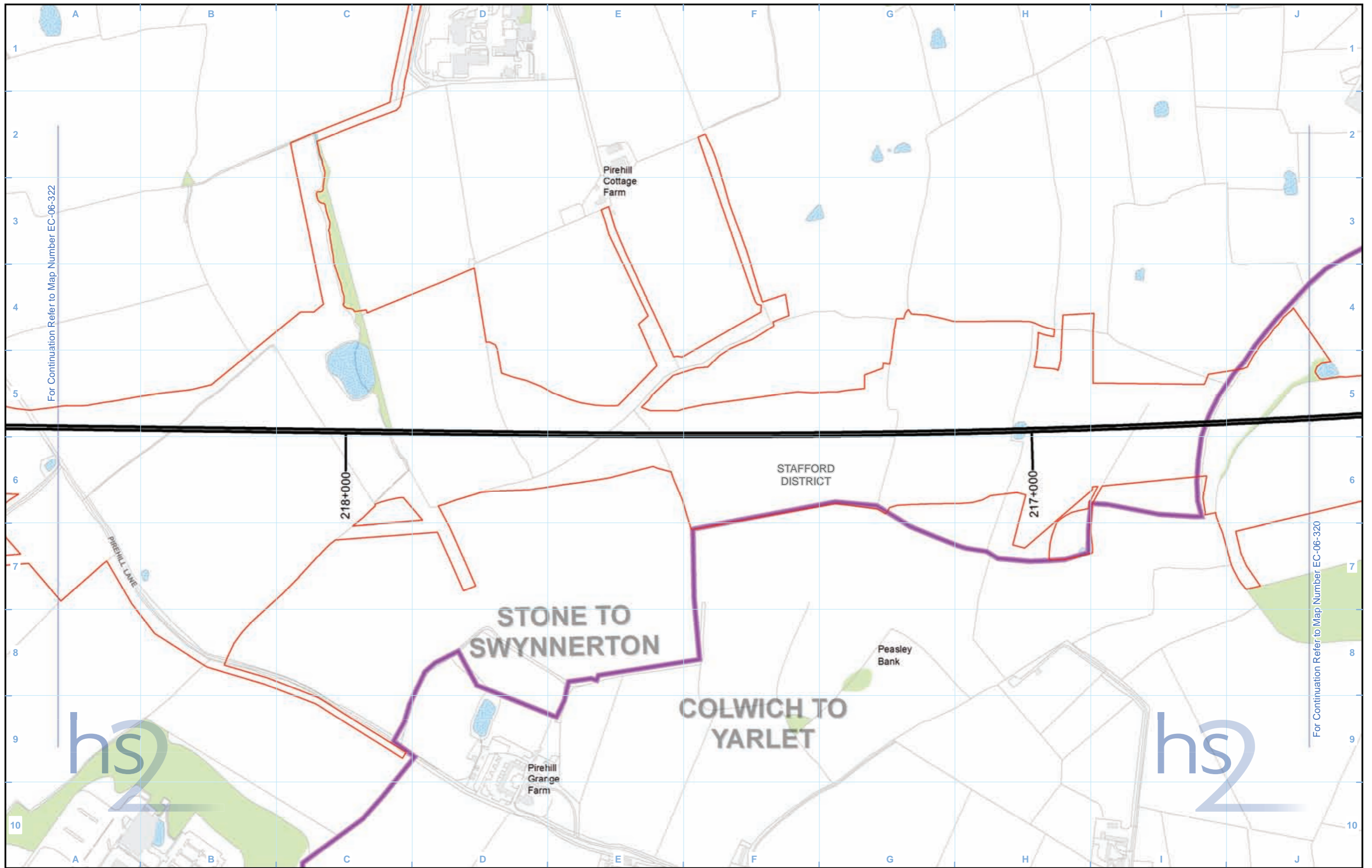
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For Continuation Refer to Map Number EC-06-321a

For Continuation Refer to Map Number EC-06-319

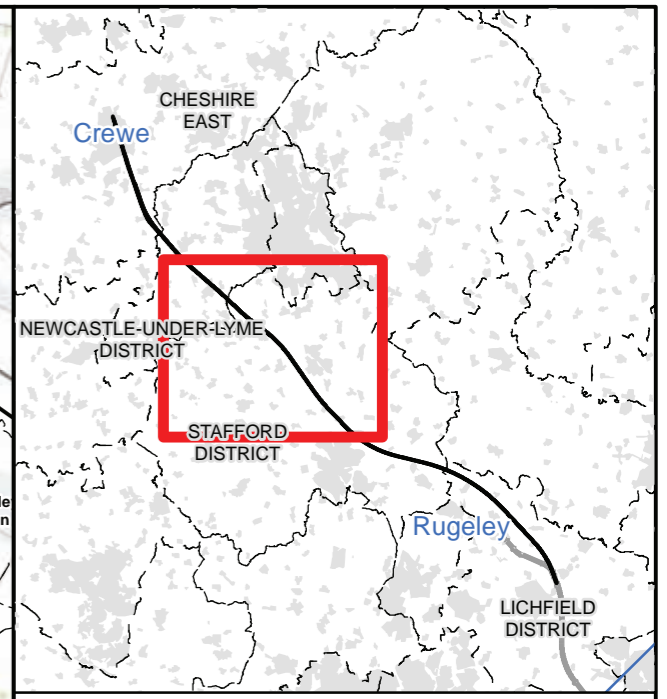
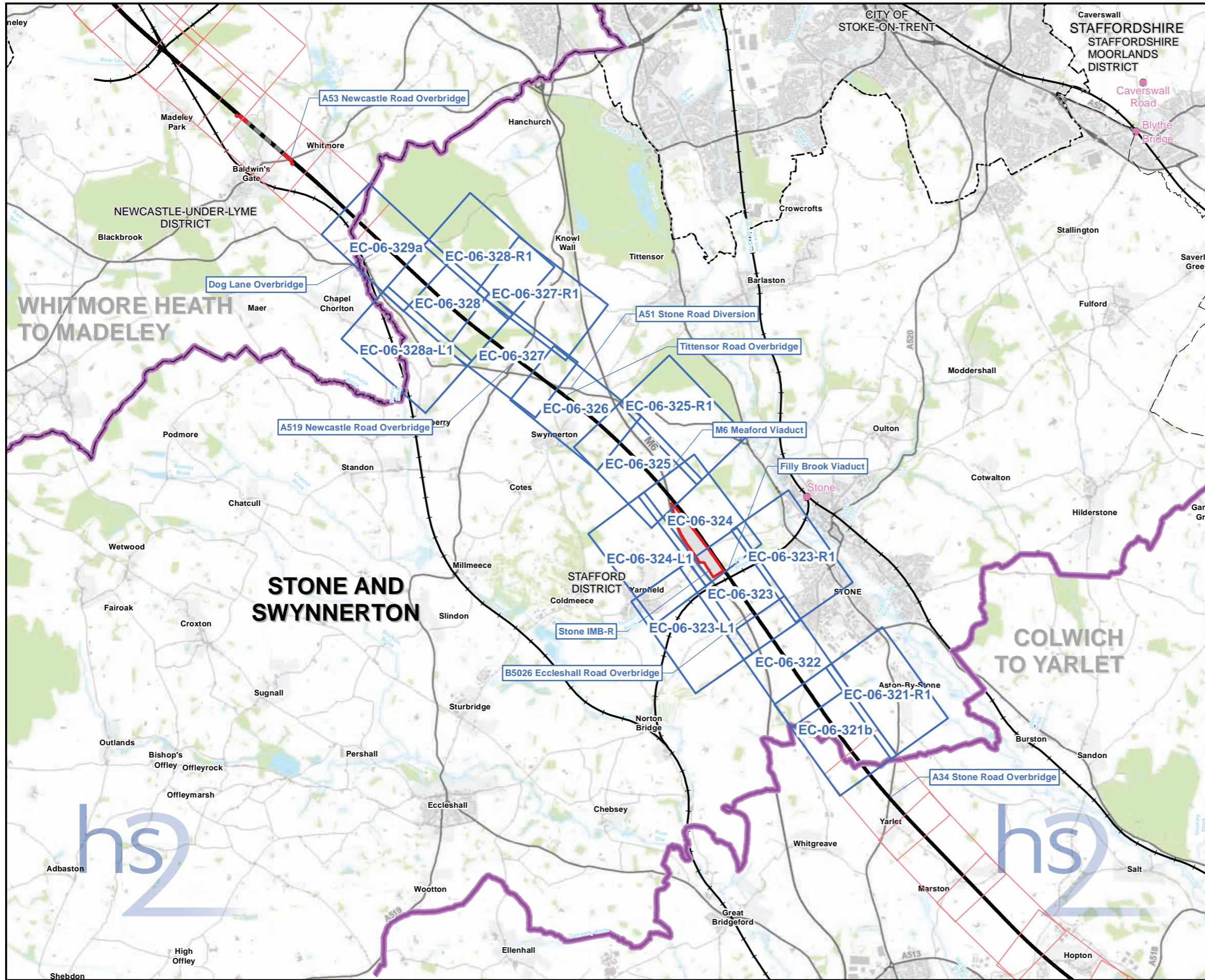
<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
Map Number <b>EC-06-320</b>				HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.	
Map Name <b>Bat - Activity</b>		Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.		Scale at A3: 1:5,000 	
Community Area 2: <b>Colwich to Yarlet</b>		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		Doc Number: C861-ARP-EV-MAP-000-076320-P03 Date: 14/06/17	



For Continuation Refer to Map Number EC-06-322

For Continuation Refer to Map Number EC-06-320

<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
Map Number <b>EC-06-321a</b>				HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.	
Map Name <b>Bat - Activity</b>		Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.		Scale at A3: 1:5,000 	
Community Area 2: <b>Colwich to Yarlet</b>		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		Doc Number: C861-ARP-EV-MAP-000-076321-P03 Date: 14/06/17	



**Map Series Information:**

This map series shows the location of bat activity surveys conducted to inform the Environmental Statement. In addition it shows the location of the key bat foraging and commuting routes which have been established on the basis of the survey work conducted.

**Main Map Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number	EC-06-INDEX-CA3
Map Name	Index Map of: Bat - Activity
	Community Area 3: Stone and Swynnerton

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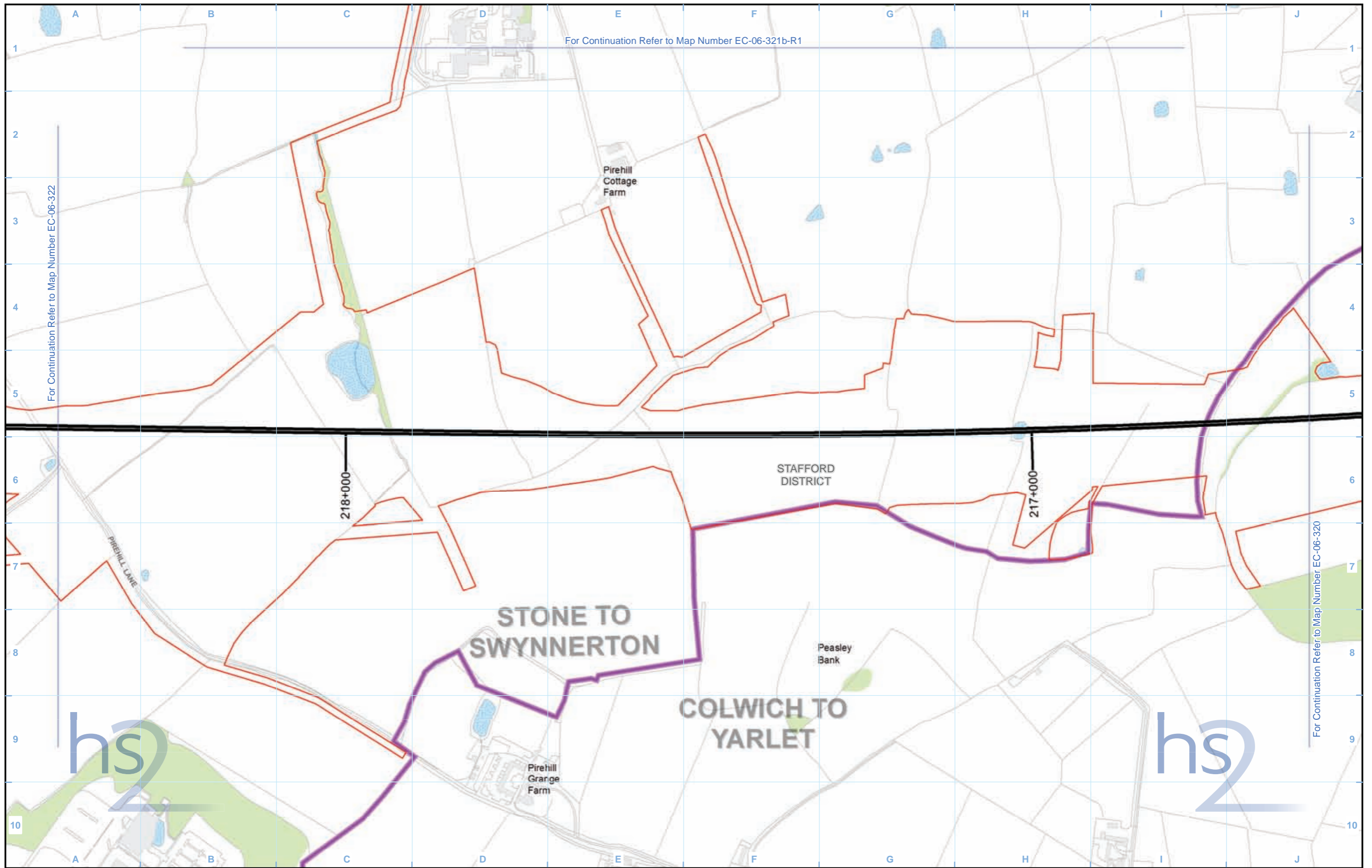
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Doc Number: C861-ARP-EV-MAP-000-076003-P03

Date: 14/06/17

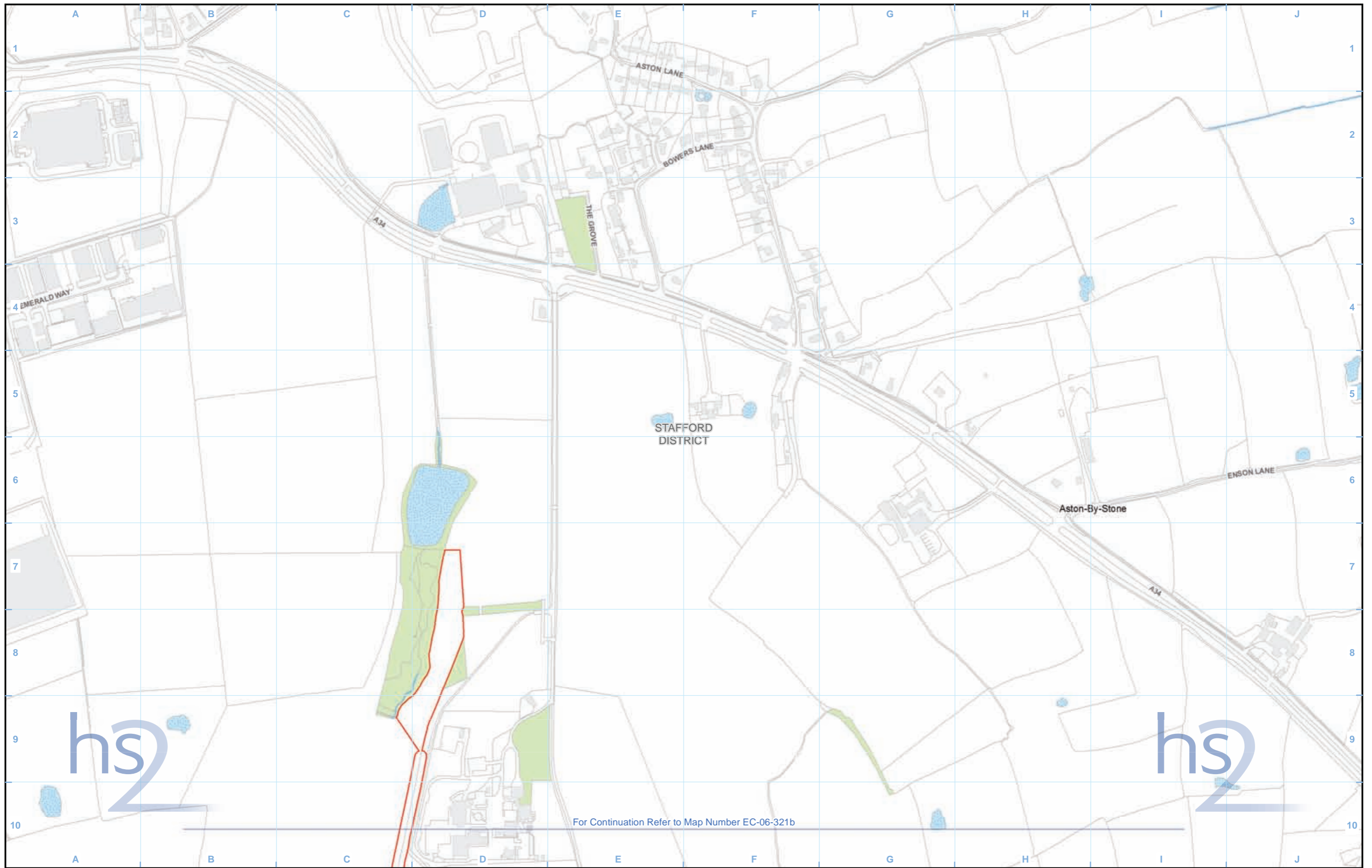


For Continuation Refer to Map Number EC-06-321b-R1

For Continuation Refer to Map Number EC-06-322

For Continuation Refer to Map Number EC-06-320

<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
Map Number <b>EC-06-321b</b>				HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.	
Map Name <b>Bat - Activity</b>		Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.		Scale at A3: 1:5,000 	
Community Area 3: <b>Stone and Swynnerton</b>		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		Doc Number: C861-ARP-EV-MAP-000-076421-P03	
				<b>Date: 14/06/17</b>	



For Continuation Refer to Map Number EC-06-321b

<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
<b>Map Number</b> EC-06-321-R1				HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.	
<b>Map Name</b> Bat - Activity		Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.		Scale at A3: 1:5,000 	
Community Area 3: Stone and Swynnerton		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		Doc Number: C861-ARP-EV-MAP-000-076521-P03 Date: 14/06/17	





**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)

- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number	EC-06-322
Map Name	Bat - Activity
Community Area 3: Stone and Swynnerton	

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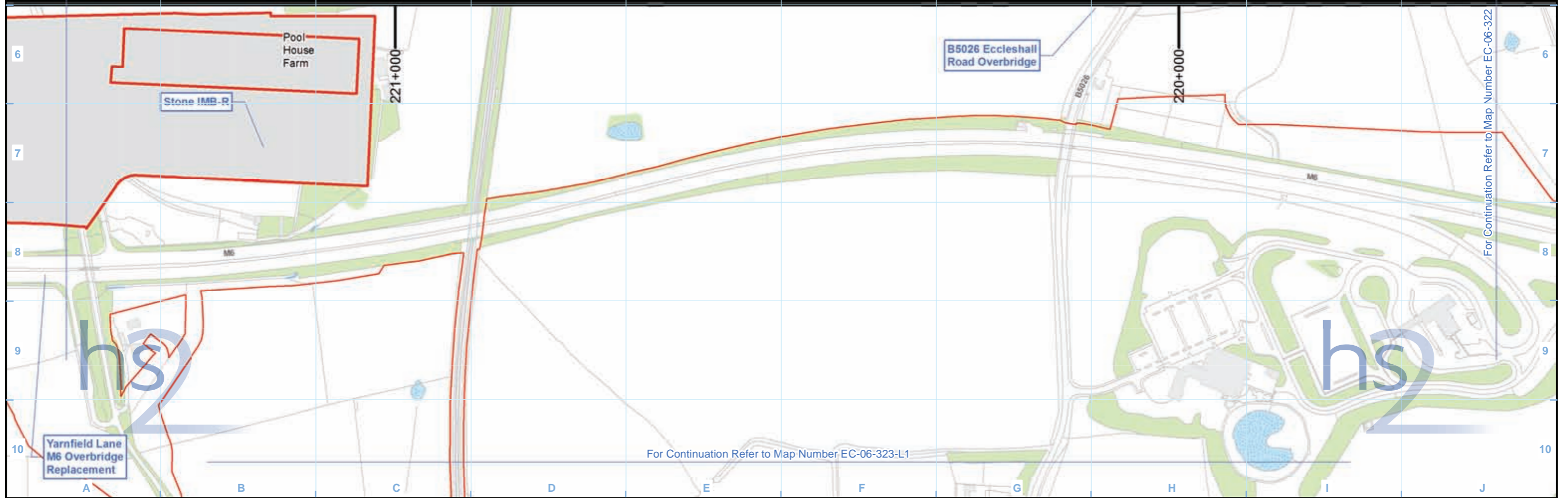
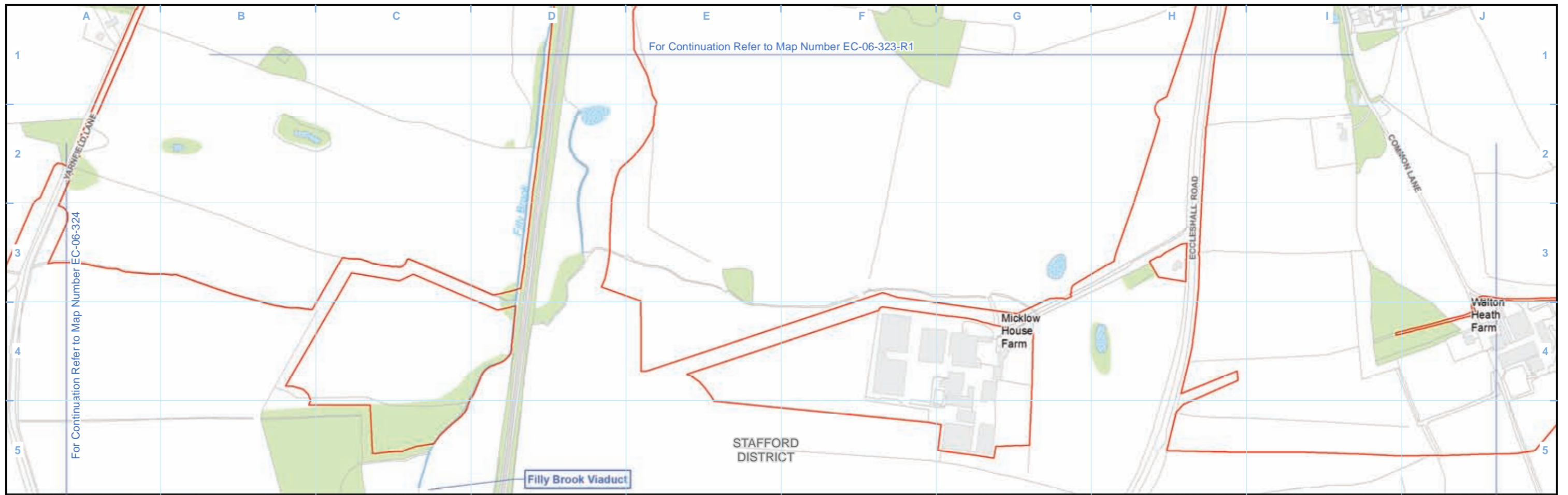
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Date: 14/06/17

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Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Bat activity static detector location
	Community area boundary		Activity transect route
	County boundary		Assumed key commuting route
	District/Borough boundary		Assumed key areas of foraging habitat

Map Number	EC-06-323
Map Name	Bat - Activity
Community Area 3: Stone and Swynnerton	

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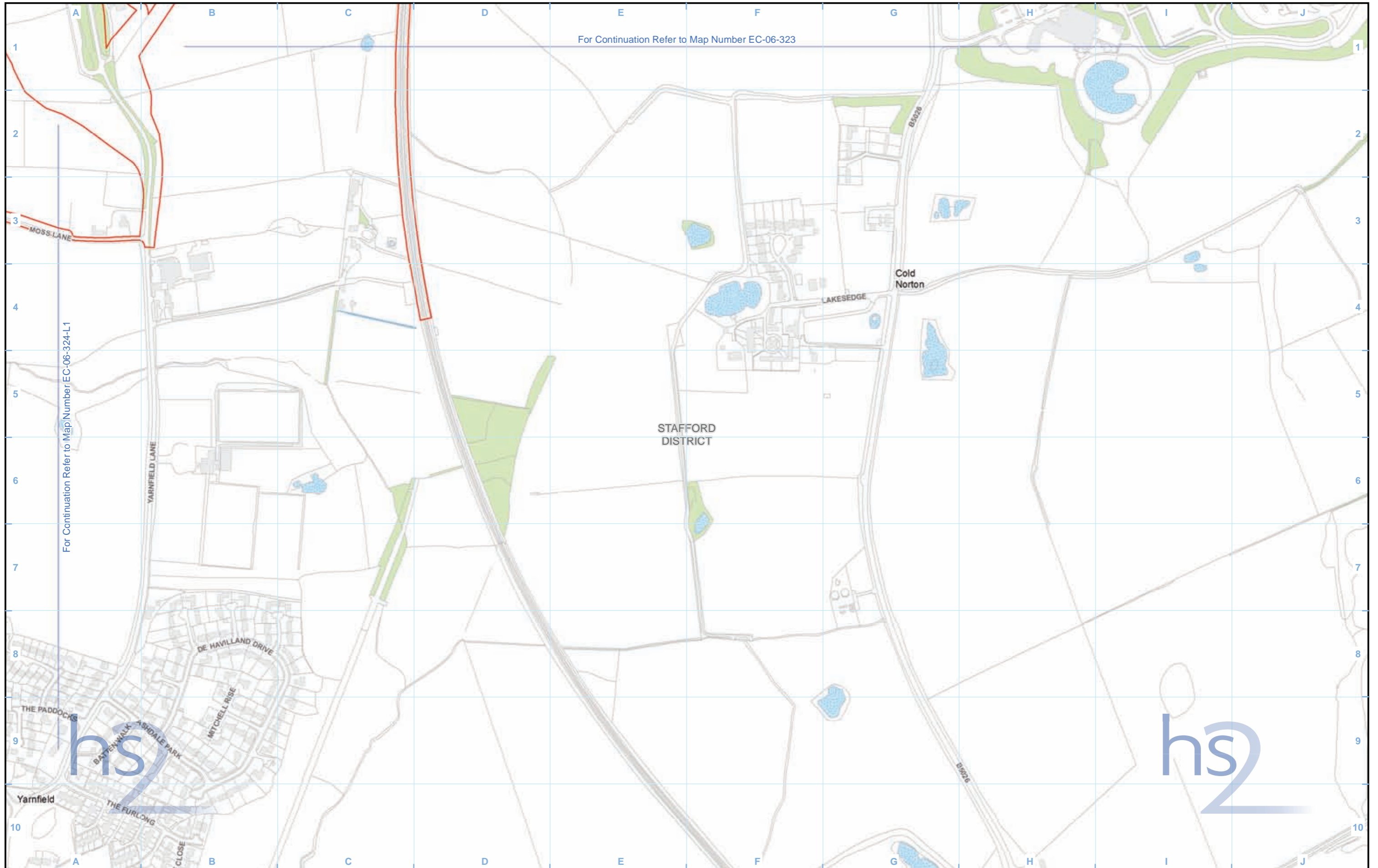
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Doc Number: C861-ARP-EV-MAP-000-076323-P03

Date: 14/06/17

For Continuation Refer to Map Number EC-06-323



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)

	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat

Map Number	EC-06-323-L1
Map Name	Bat - Activity
	Community Area 3: Stone and Swynnerton

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For Continuation Refer to Map Number EC-06-323

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)

	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat

Map Number	EC-06-323-R1
Map Name	Bat - Activity
	Community Area 3: Stone and Swynnerton

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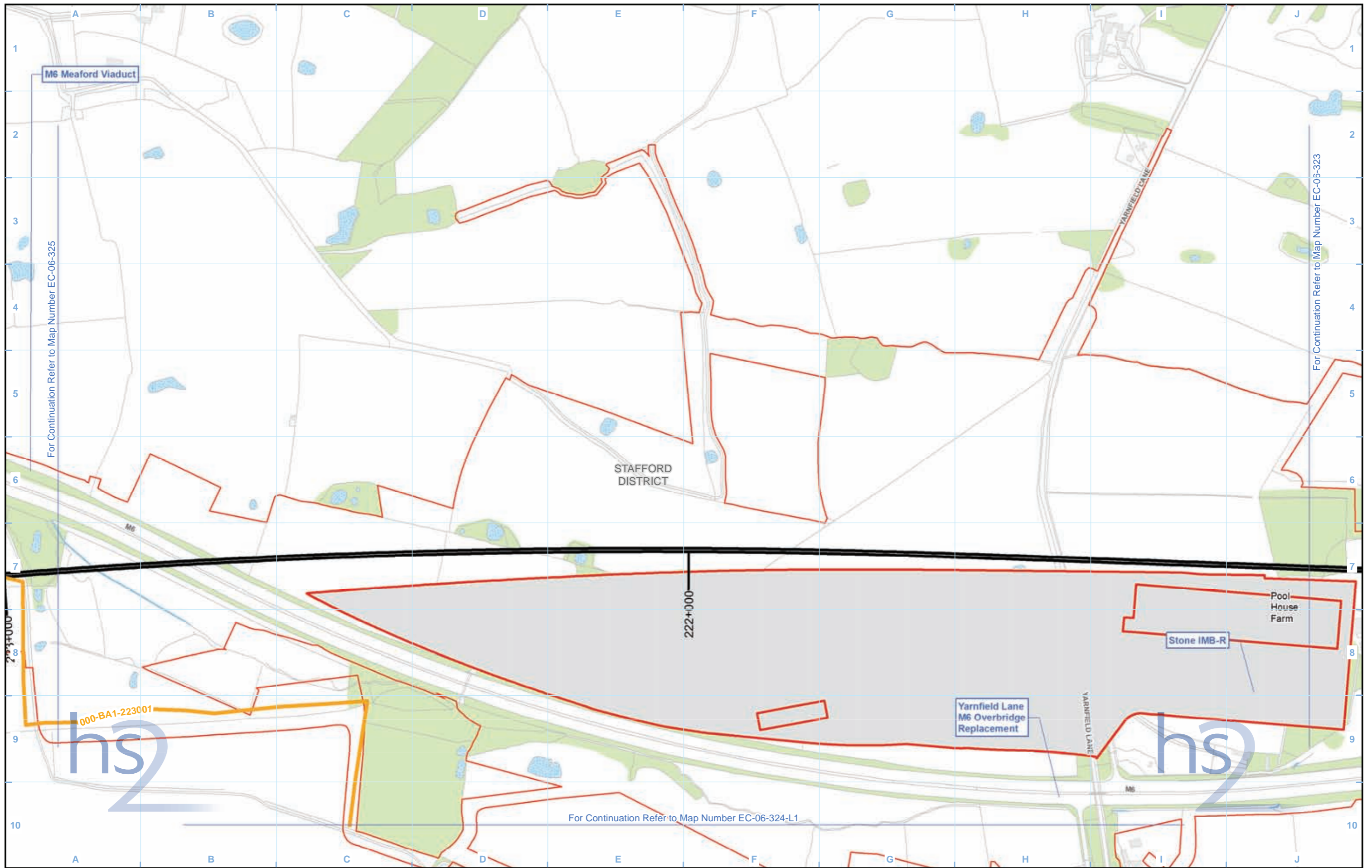
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Metres

Date: 14/06/17

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Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Bat activity static detector location
	Community area boundary		Activity transect route
	County boundary		Assumed key commuting route
	District/Borough boundary		Assumed key areas of foraging habitat

Map Number	EC-06-324
Map Name	Bat - Activity
Community Area 3: Stone and Swynnerton	

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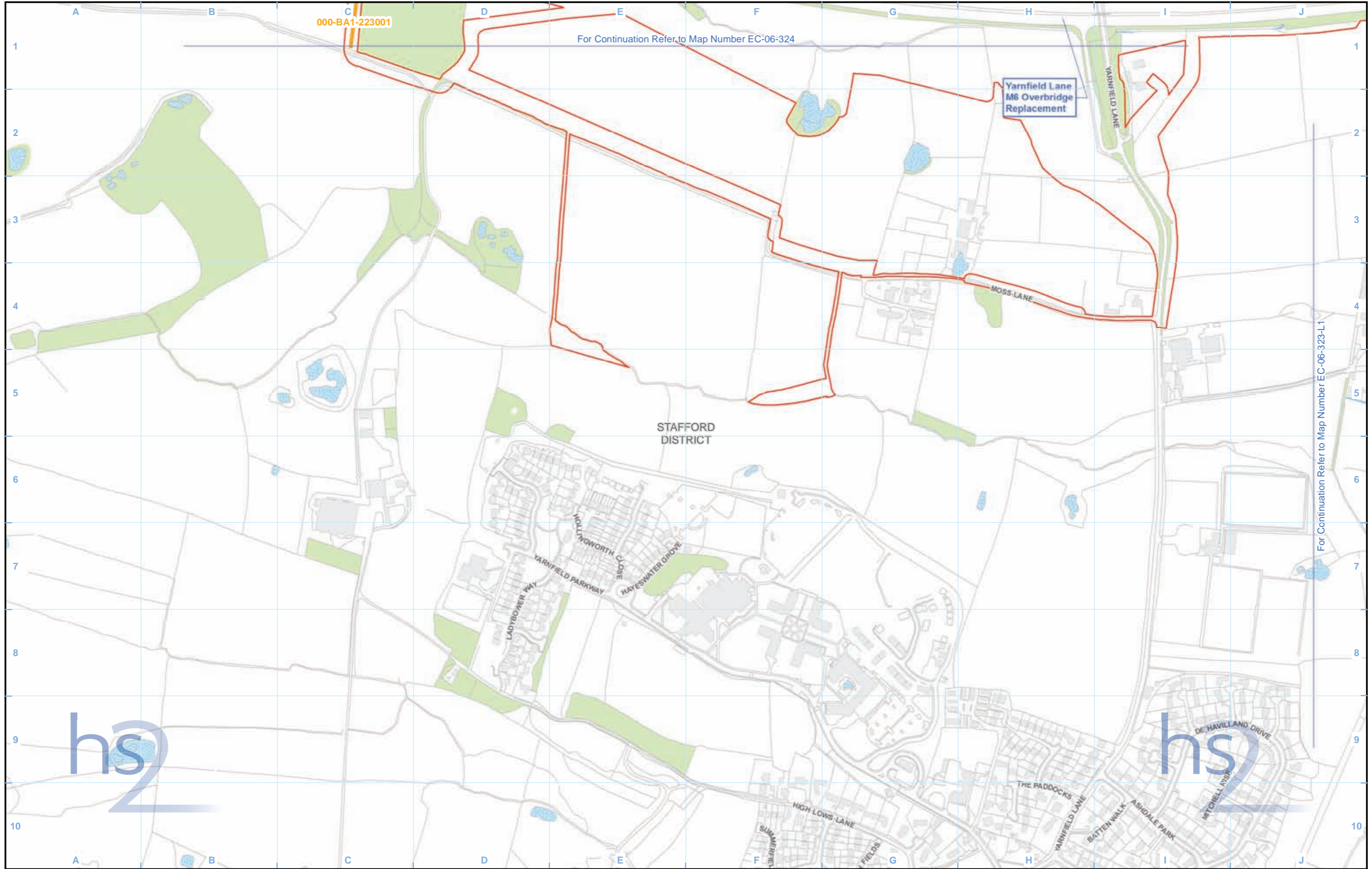
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Date: 14/06/17



000-BA1-223001

For Continuation Refer to Map Number EC-06-324

Yarnfield Lane  
M6 Overbridge  
Replacement

STAFFORD  
DISTRICT

For Continuation Refer to Map Number EC-06-323-L1



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat

Map Number	EC-06-324-L1
Map Name	Bat - Activity
	Community Area 3: Stone and Swynnerton

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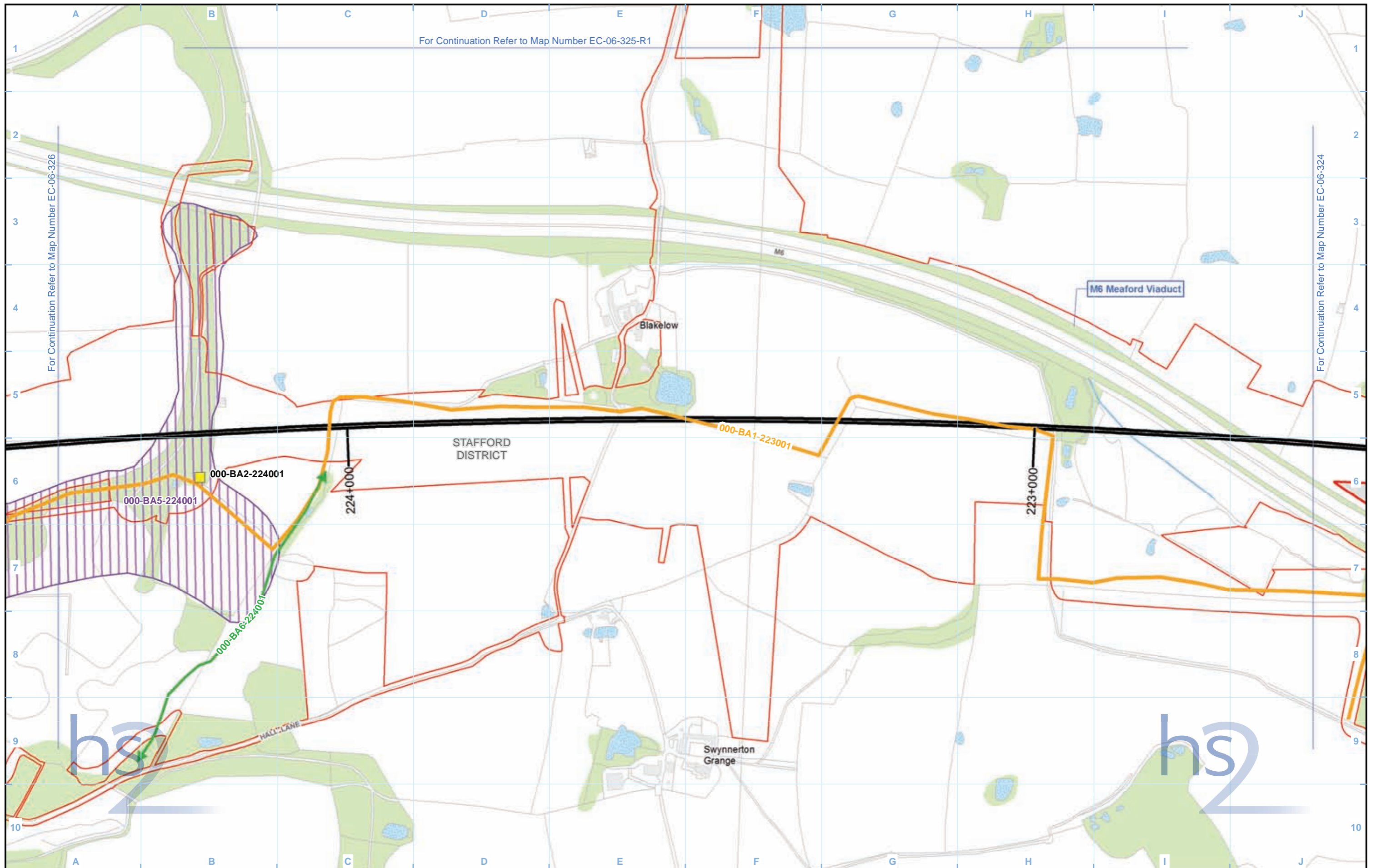
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Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat

Map Number	EC-06-325
Map Name	Bat - Activity
Community Area 3: Stone and Swynnerton	

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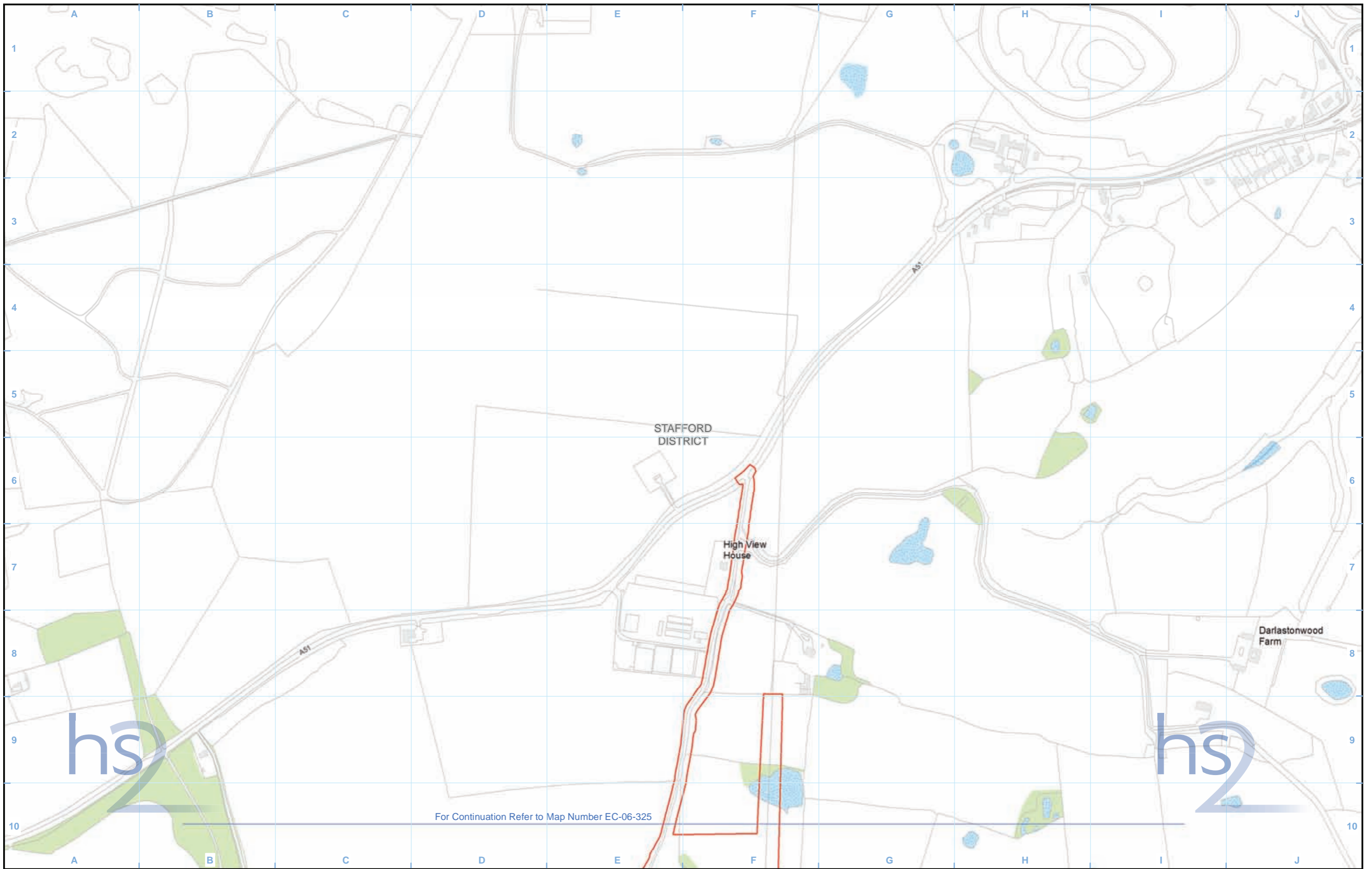
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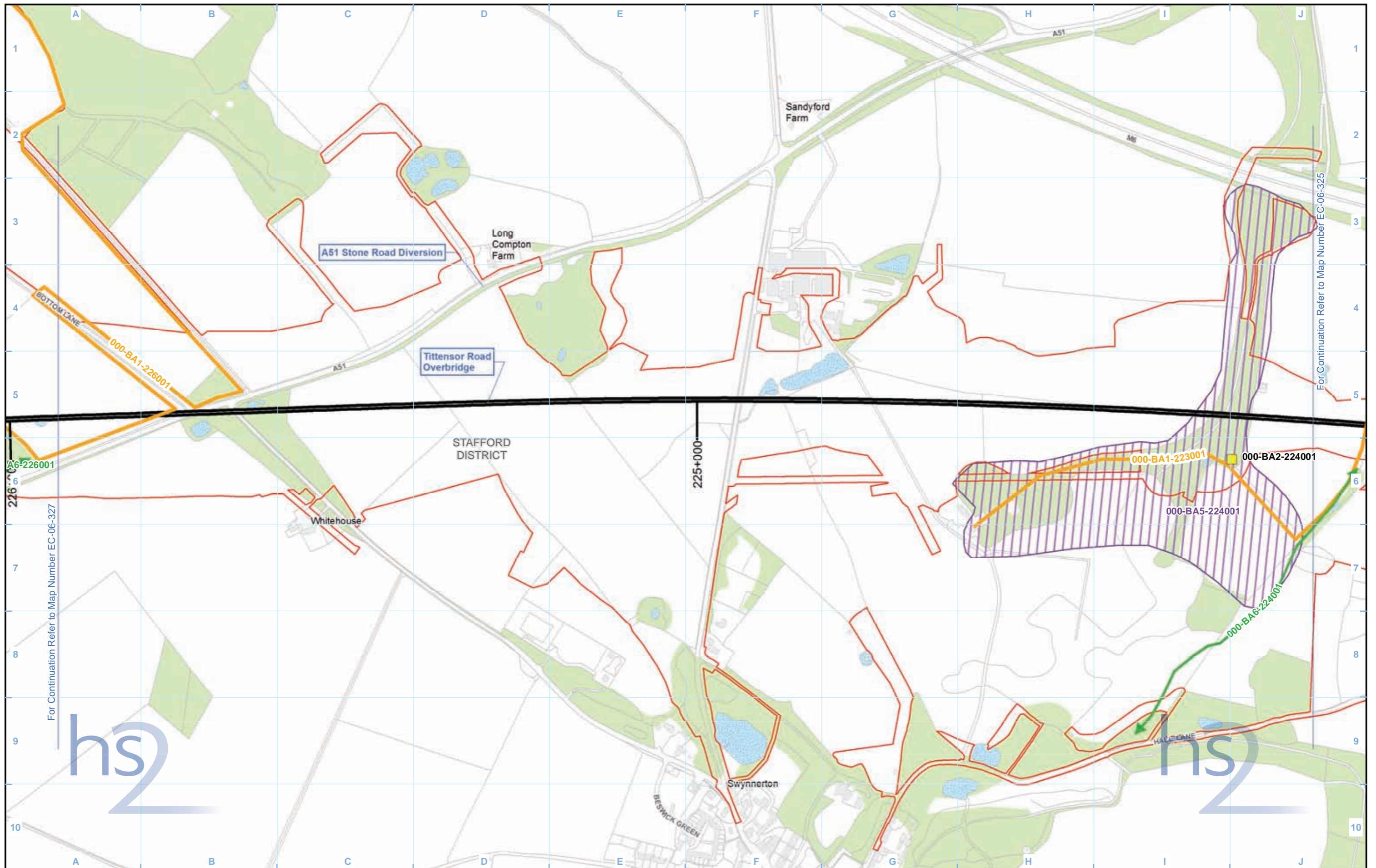
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For Continuation Refer to Map Number EC-06-325

<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
Map Number <b>EC-06-325-R1</b>				HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.	
Map Name <b>Bat - Activity</b>		Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.		Scale at A3: 1:5,000 	
Community Area 3: <b>Stone and Swynnerton</b>		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		Doc Number: C861-ARP-EV-MAP-000-076425-P03 Date: 14/06/17	



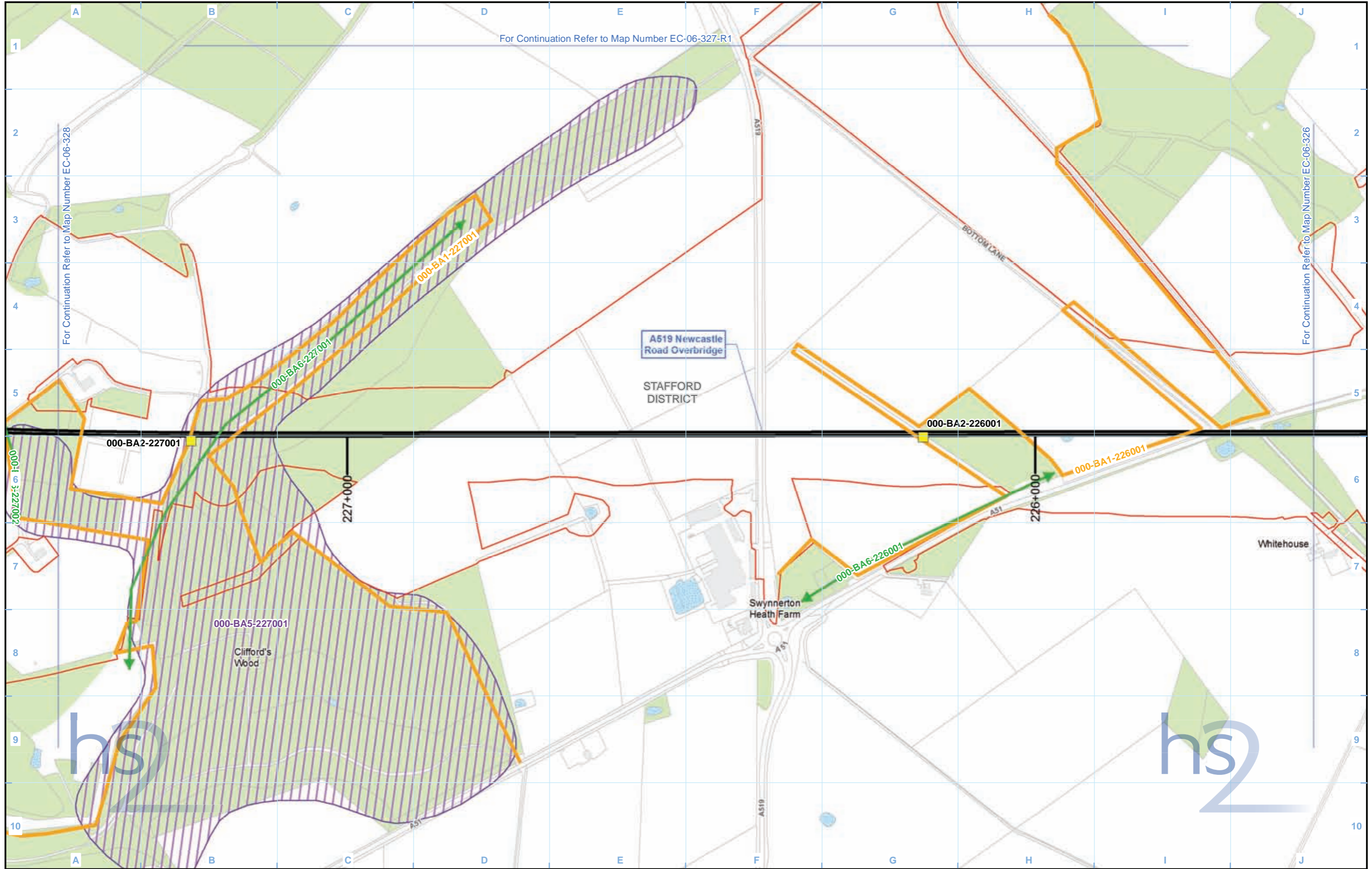


<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
Map Number <b>EC-06-326</b>				Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.	
Map Name <b>Bat - Activity</b>		Scale at A3: 1:5,000 			
Community Area 3: <b>Stone and Swynnerton</b>		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		Doc Number: C861-ARP-EV-MAP-000-076326-P03	
				Date: 14/06/17	

For Continuation Refer to Map Number EC-06-327-R1

For Continuation Refer to Map Number EC-06-328

For Continuation Refer to Map Number EC-06-326



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat

Map Number	EC-06-327
Map Name	Bat - Activity
	Community Area 3: Stone and Swynnerton

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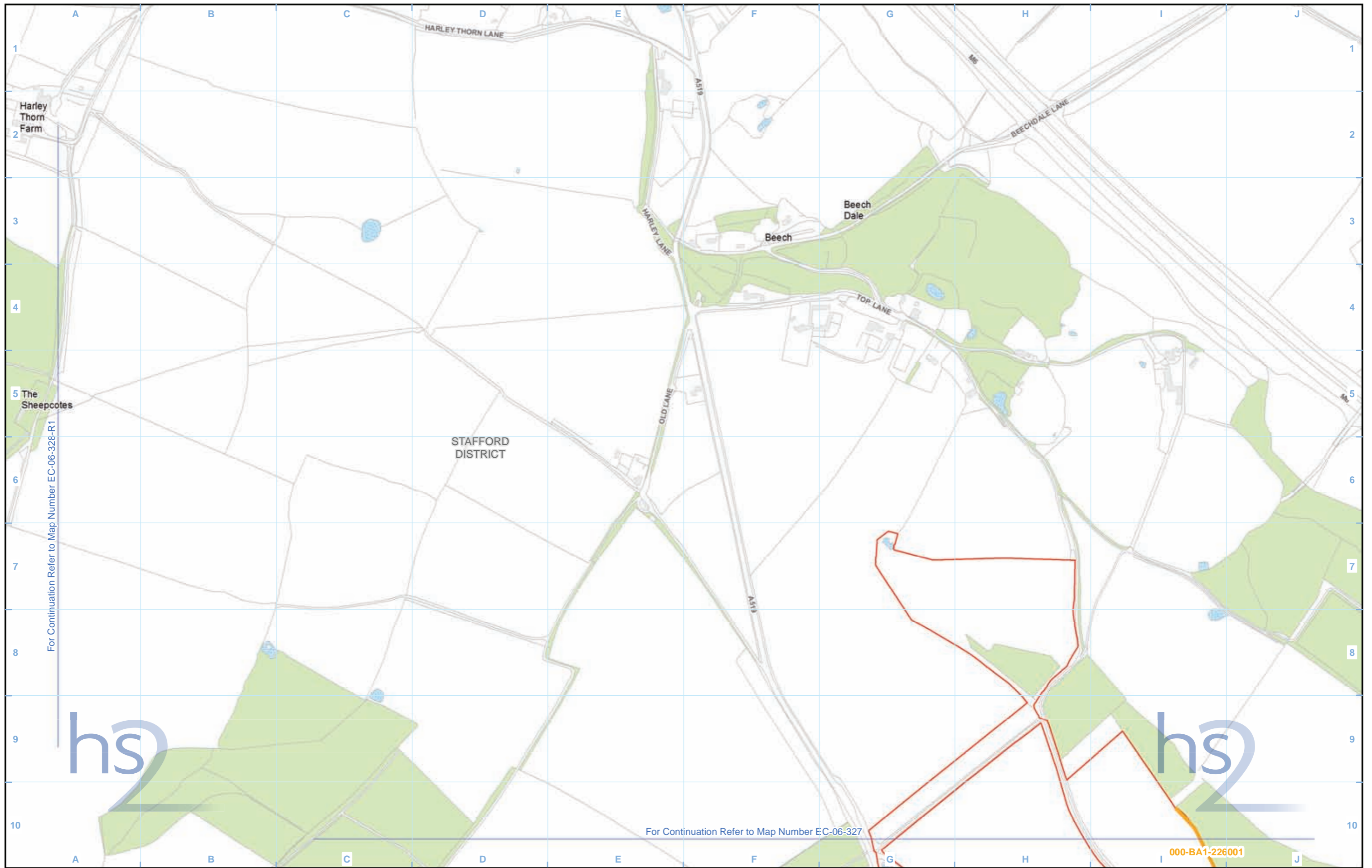
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Doc Number: C861-ARP-EV-MAP-000-076327-P03

Date: 14/06/17

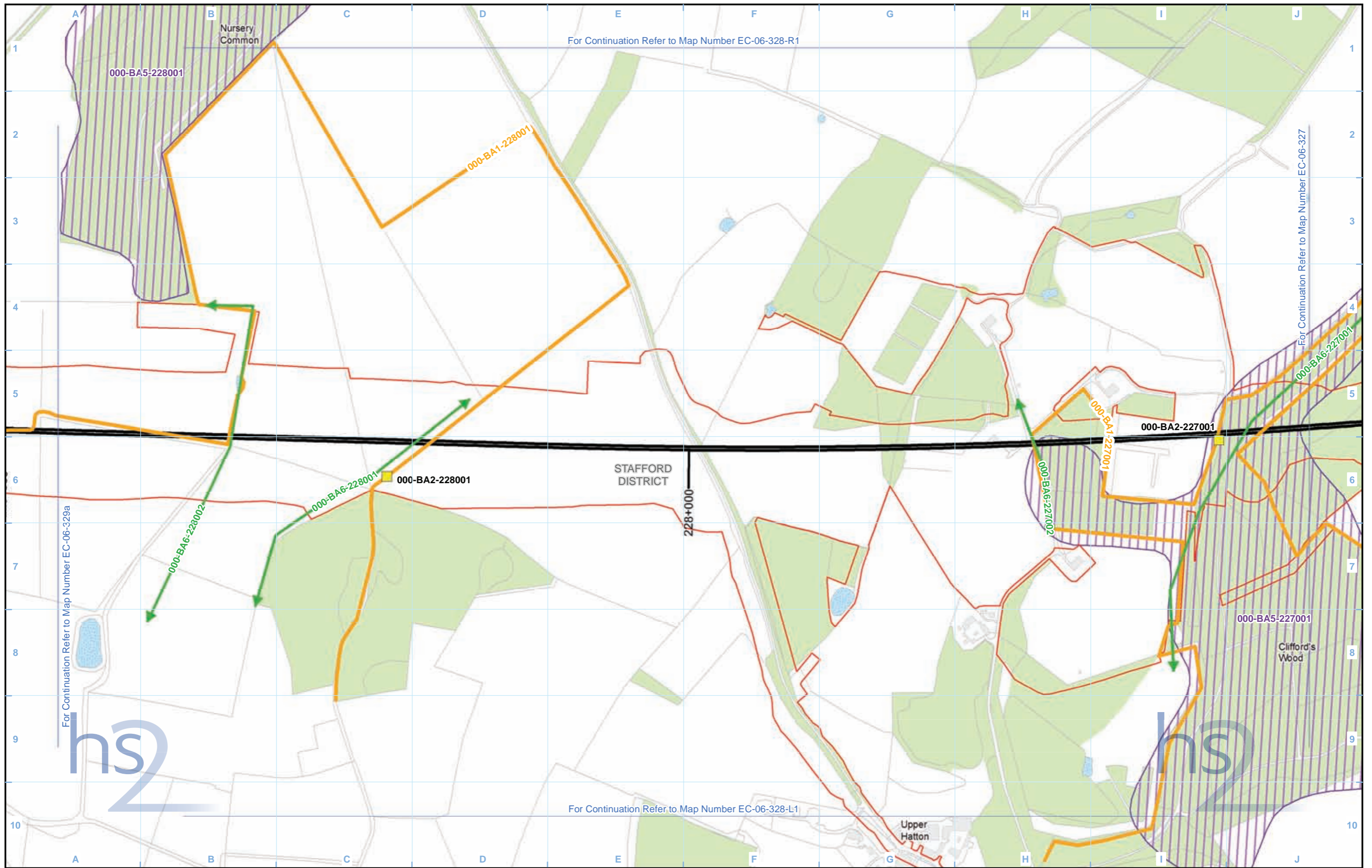


For Continuation Refer to Map Number EC-06-328-R1

For Continuation Refer to Map Number EC-06-327

000-BA1-226001

<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
<b>Map Number</b> EC-06-327-R1				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
<b>Map Name</b> Bat - Activity		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area 3:</b> Stone and Swynnerton		<small>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</small>		<small>Doc Number: C861-ARP-EV-MAP-000-076427-P03</small>	
				<b>Date: 14/06/17</b>	



For Continuation Refer to Map Number EC-06-328-R1

For Continuation Refer to Map Number EC-06-327

For Continuation Refer to Map Number EC-06-329a

For Continuation Refer to Map Number EC-06-328-L1

- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)

- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number	EC-06-328
Map Name	Bat - Activity
	Community Area 3: Stone and Swynnerton

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0 50 100 150 200 Metres

Doc Number: C861-ARP-EV-MAP-000-076328-P03 Date: 14/06/17

For Continuation Refer to Map Number EC-06-328

# STONE TO SWYNNERTON

Upper Hatton

000-BA1-227001

000-BA5-227001

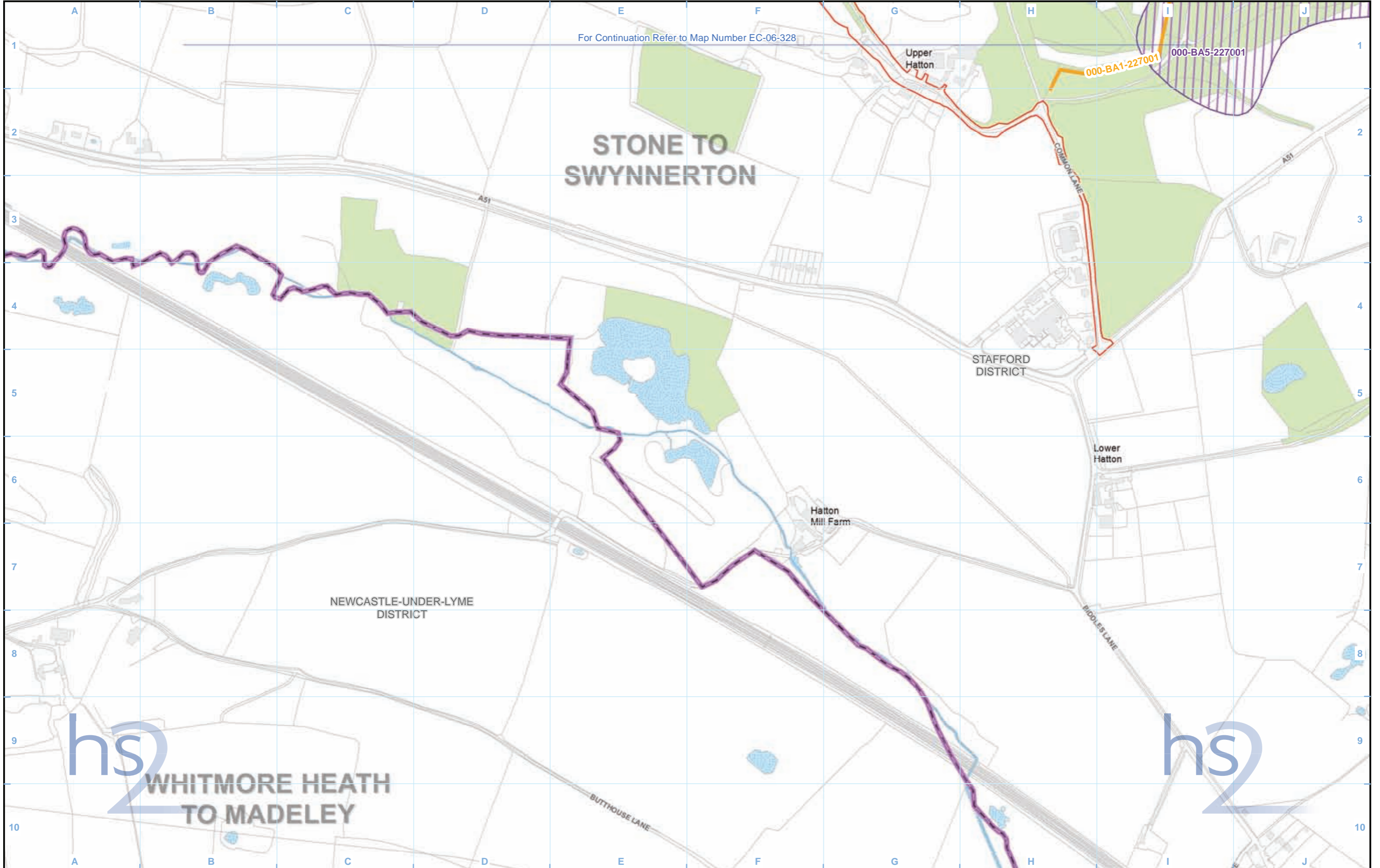
STAFFORD DISTRICT

Lower Hatton

Hatton Mill Farm

NEWCASTLE-UNDER-LYME DISTRICT

# WHITMORE HEATH TO MADELEY



### Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number EC-06-328a-L1

Map Name Bat - Activity

Community Area 3:  
Stone and Swynnerton

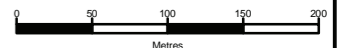


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Date: 14/06/17



For Continuation Refer to Map Number EC-06-327-R1

For Continuation Refer to Map Number EC-06-328

- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Water body
  - Woodland (verified by survey)
  - Bat activity static detector location
  - Activity transect route
  - Assumed key commuting route
  - Assumed key areas of foraging habitat

Map Number	EC-06-328-R1
Map Name	Bat - Activity
Community Area 3: Stone and Swynnerton	

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**Doc Number:** C861-ARP-EV-MAP-000-076628-P03

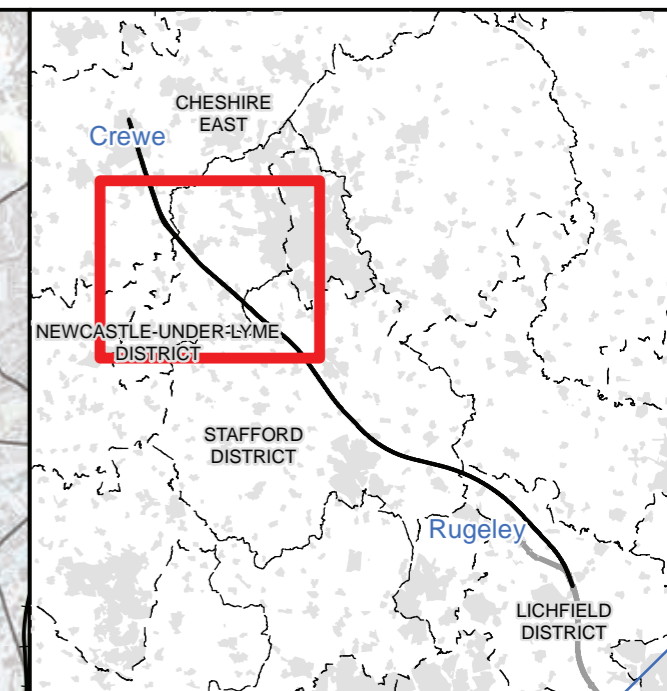
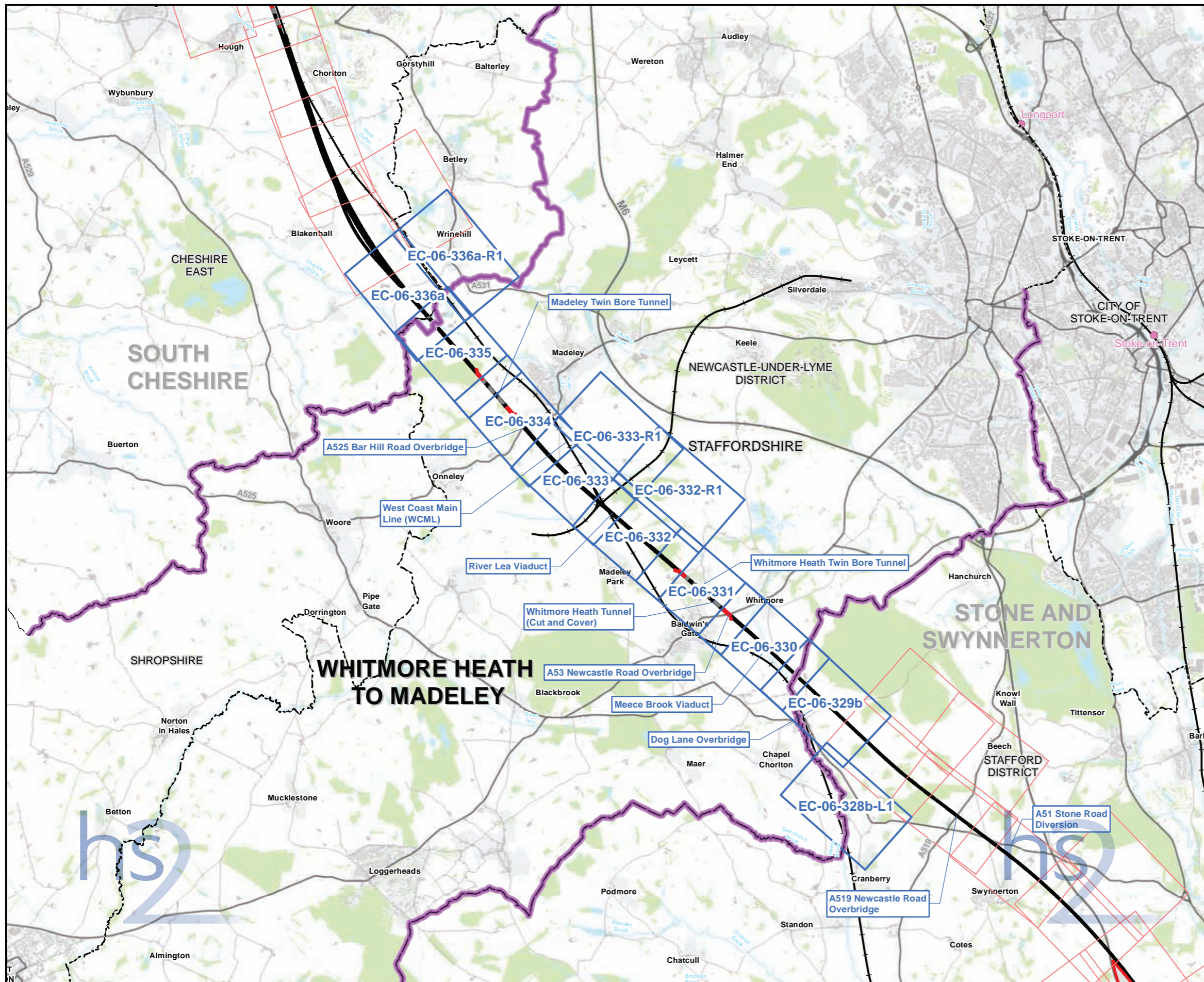
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Scale at A3: 1:5,000

Metres

**Date:** 14/06/17





**Map Series Information:**

This map series shows the location of bat activity surveys conducted to inform the Environmental Statement. In addition it shows the location of the key bat foraging and commuting routes which have been established on the basis of the survey work conducted.

- Main Map Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Community area boundary
  - Existing railway station
  - County boundary
  - District/Borough boundary
  - Map sheets included in this community area
  - Map sheets not included in this community area

Map Number	EC-06-INDEX-CA4
Map Name	Index Map of: Bat - Activity
	Community Area 4: Whitmore Heath to Madeley

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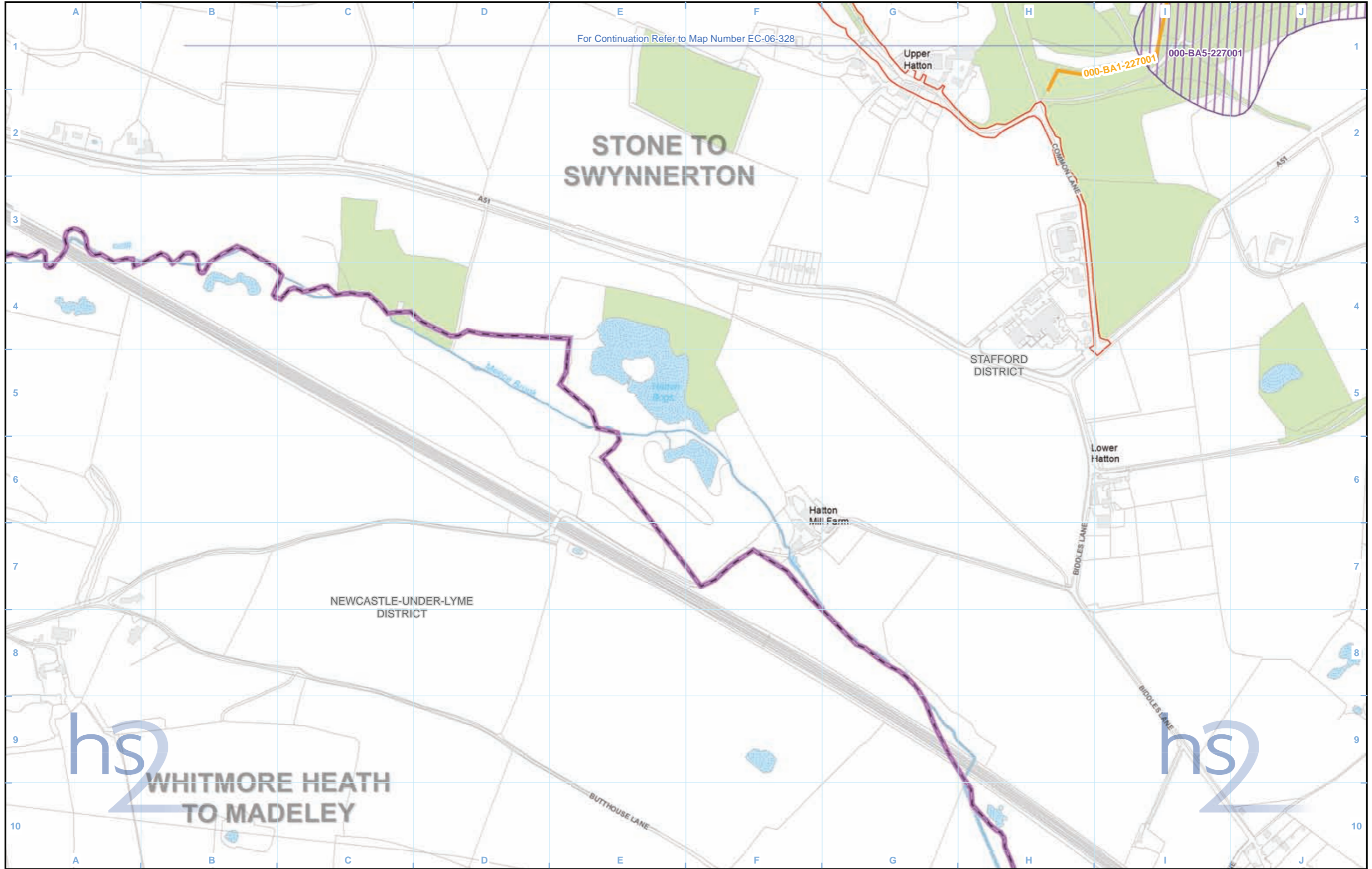
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For Continuation Refer to Map Number EC-06-328

# STONE TO SWYNNERTON

# WHITMORE HEATH TO MADELEY



**Legend**


Map Number	EC-06-328b-L1
Map Name	Bat - Activity
Community Area 4: Whitmore Heath to Madeley	

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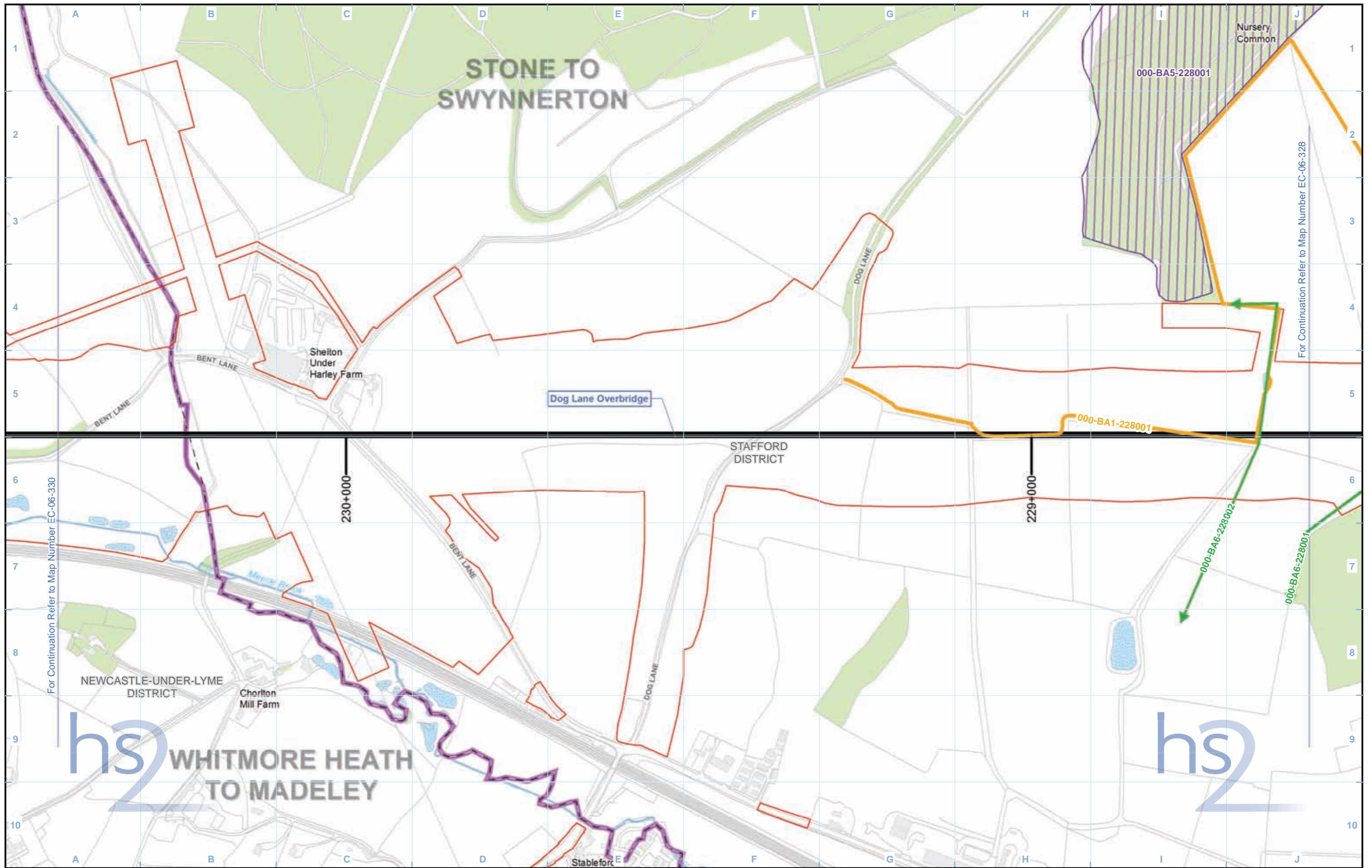
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Doc Number: C861-ARP-EV-MAP-000-076528-P03

Date: 14/06/17



For Continuation Refer to Map Number EC-06-330

For Continuation Refer to Map Number EC-06-328

- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Water body
  - Woodland (verified by survey)
  - Bat activity static detector location
  - Activity transect route
  - Assumed key commuting route
  - Assumed key areas of foraging habitat

Map Number	EC-06-329b
Map Name	Bat - Activity
Community Area 4: Whitmore Heath to Madeley	

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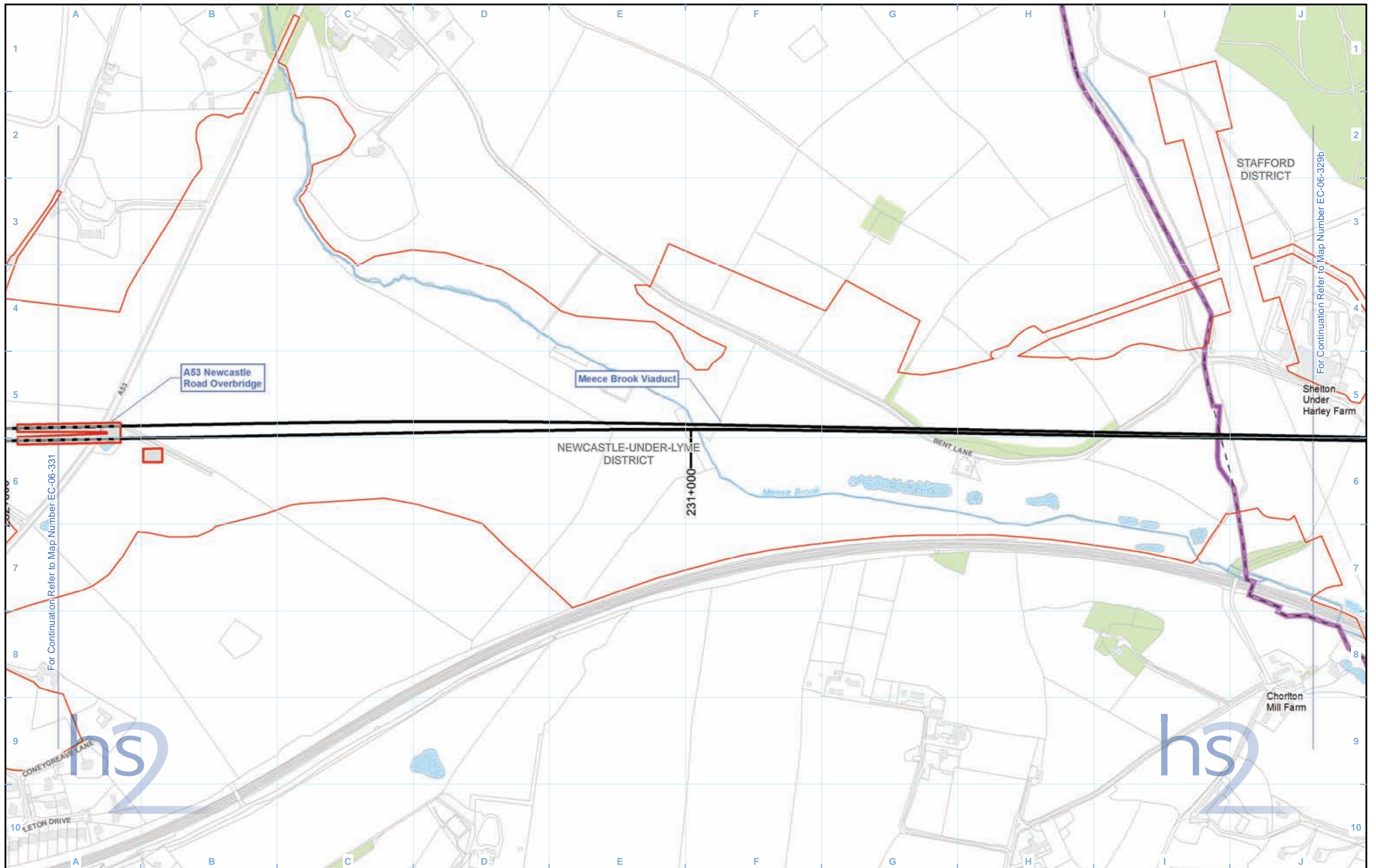
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0 50 100 150 200 Metres

**Doc Number:** C861-ARP-EV-MAP-000-076429-P03 **Date:** 14/06/17



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat

Map Number	EC-06-330
Map Name	Bat - Activity
Community Area 4: Whitmore Heath to Madeley	


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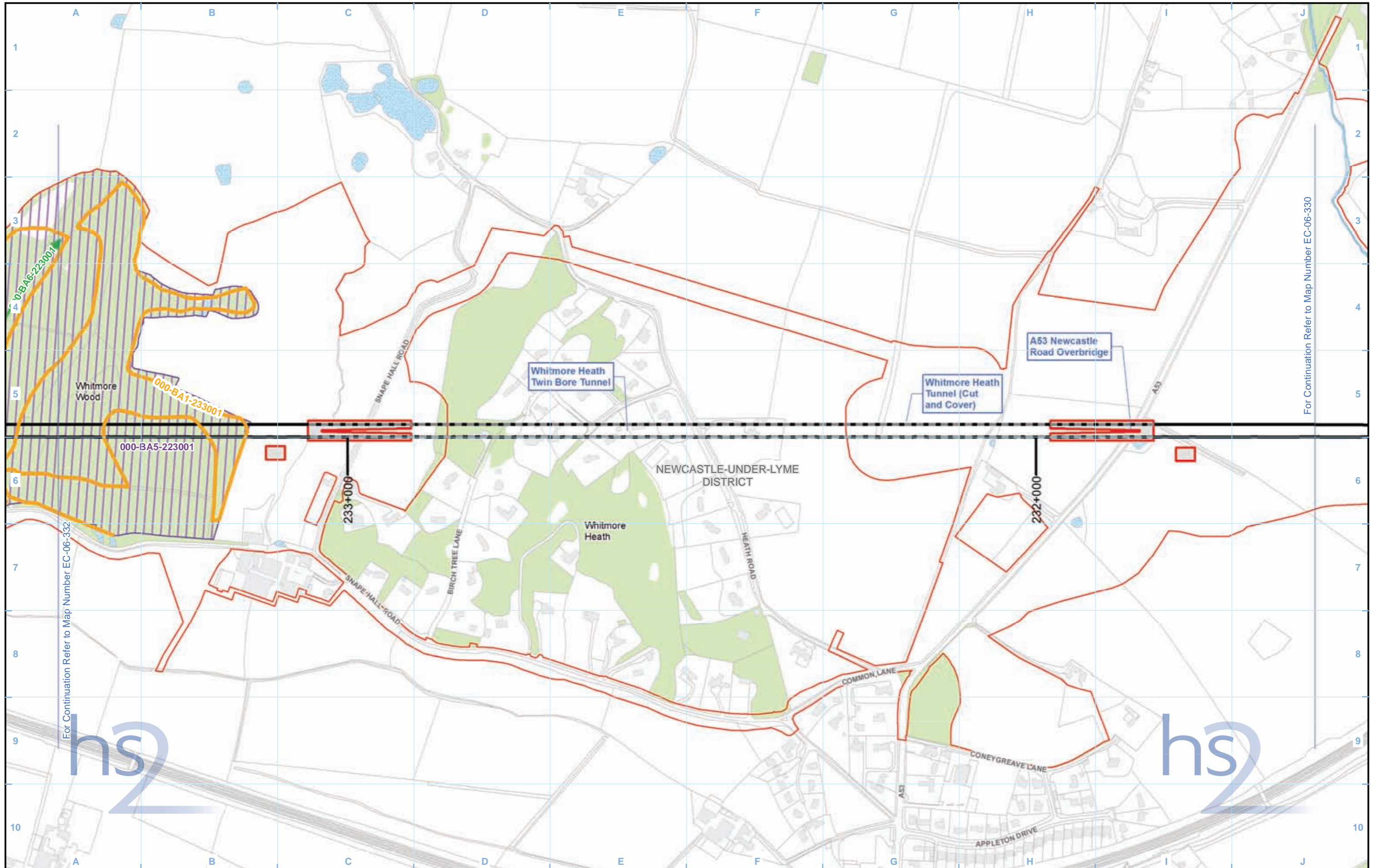
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Doc Number: C861-ARP-EV-MAP-000-076330-P03

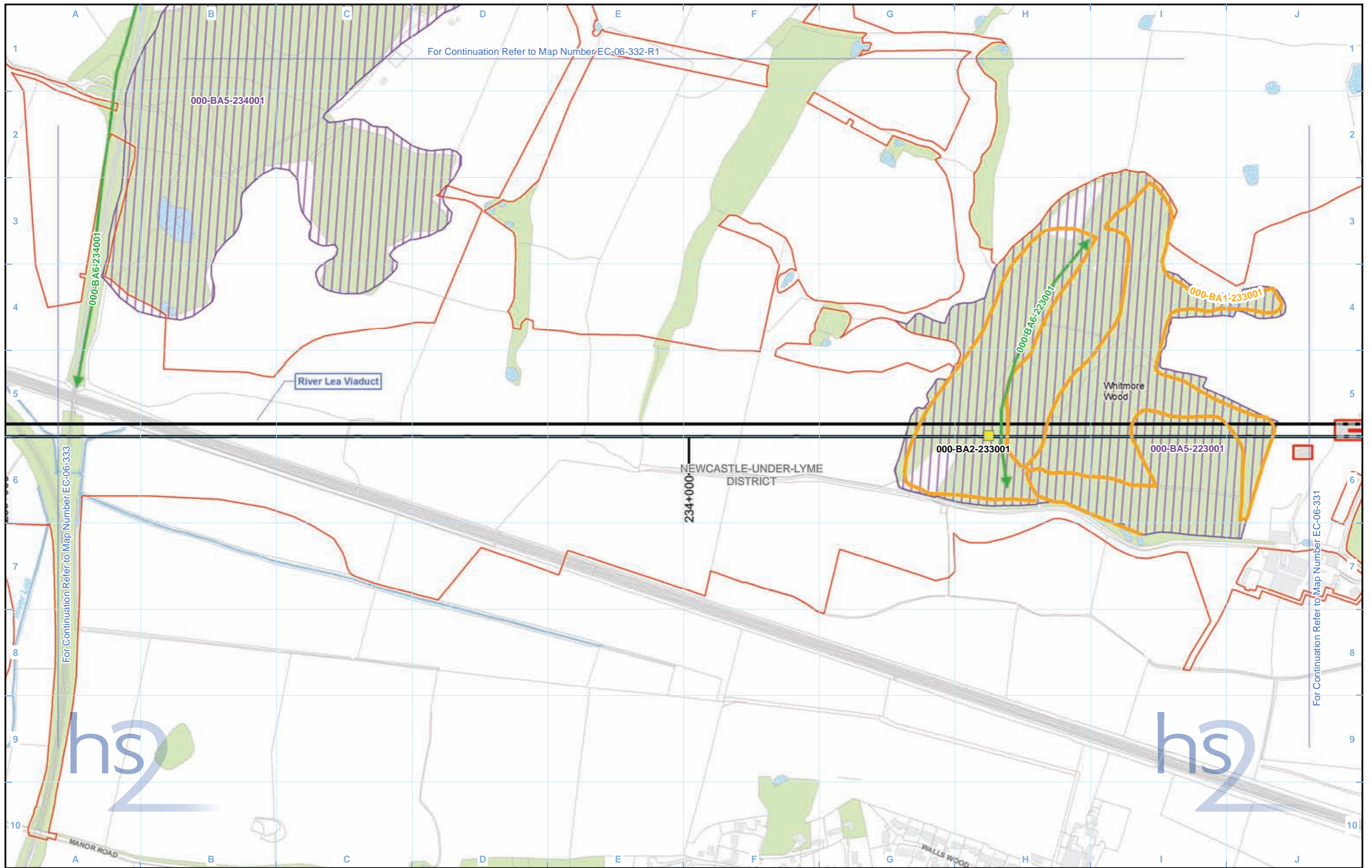
Date: 14/06/17



For Continuation Refer to Map Number EC-06-332

For Continuation Refer to Map Number EC-06-330

<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland (verified by survey) Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat		Map Number <b>EC-06-331</b>	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.  Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190. Scale at A3: 1:5,000  0 50 100 150 200 Metres
Map Name <b>Bat - Activity</b>		Community Area 4: <b>Whitmore Heath to Madeley</b>	
Doc Number: C861-ARP-EV-MAP-000-076331-P03		Date: 14/06/17	



For Continuation Refer to Map Number EC-06-332-R1

For Continuation Refer to Map Number EC-06-333

For Continuation Refer to Map Number EC-06-331

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat

Map Number	EC-06-332
Map Name	Bat - Activity
Community Area 4: Whitmore Heath to Madeley	

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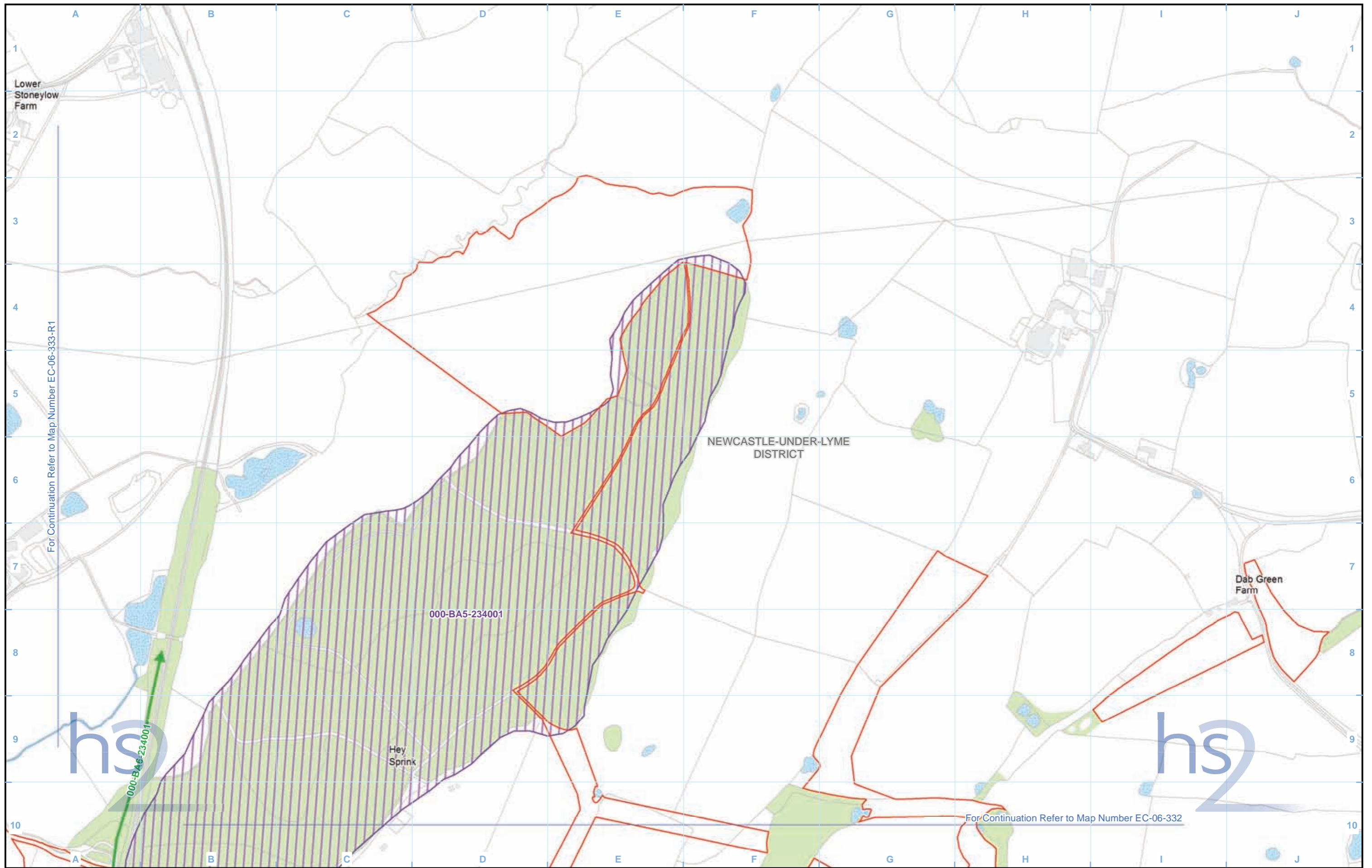
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Scale at A3: 1:5,000

Doc Number: C861-ARP-EV-MAP-000-076332-P03

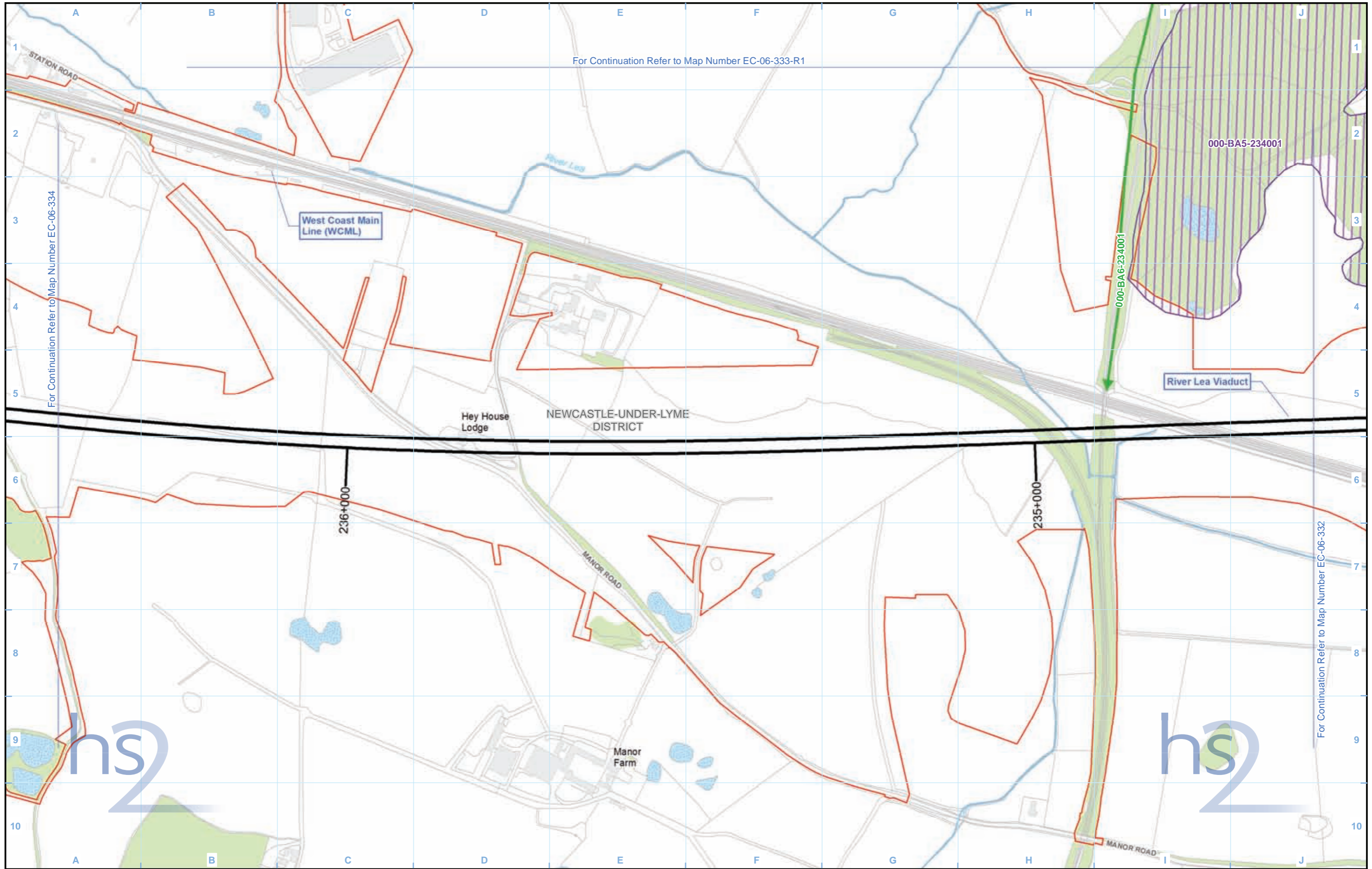
Date: 14/06/17



For Continuation Refer to Map Number EC-06-333-R1

For Continuation Refer to Map Number EC-06-332

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in bored tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li> Bat activity static detector location</li> <li> Activity transect route</li> <li> Assumed key commuting route</li> <li> Assumed key areas of foraging habitat</li> </ul>		<p>Map Number: EC-06-332-R1</p> <p>Map Name: Bat - Activity</p> <p>Community Area 4: Whitmore Heath to Madeley</p>	<p></p> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C861-ARP-EV-MAP-000-076432-P03</p>
<p>Scale at A3: 1:5,000</p> <p></p>		<p></p> <p>Date: 14/06/17</p>	



For Continuation Refer to Map Number EC-06-333-R1

For Continuation Refer to Map Number EC-06-334

For Continuation Refer to Map Number EC-06-332

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat

Map Number	EC-06-333
Map Name	Bat - Activity
Community Area 4: Whitmore Heath to Madeley	

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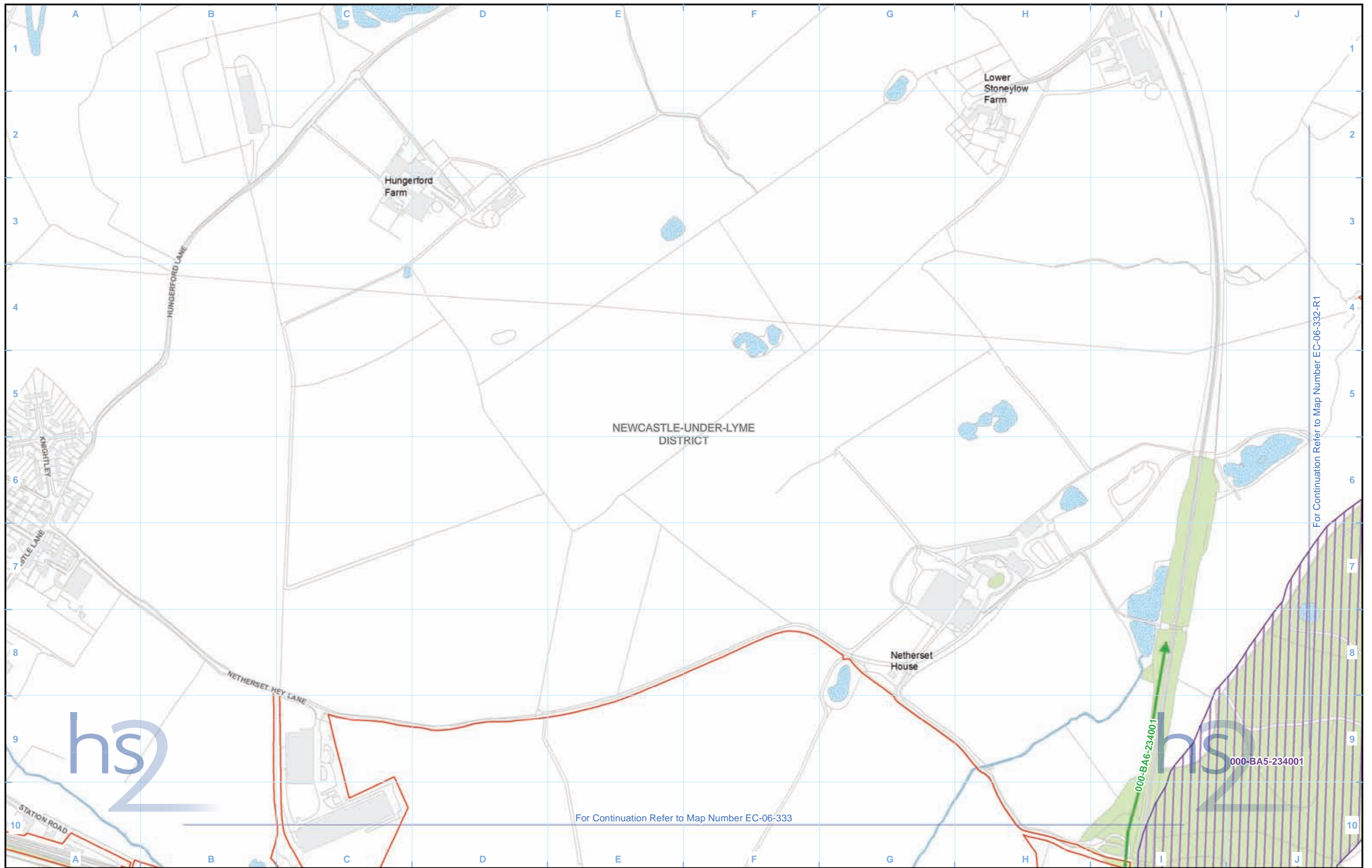
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Doc Number: C861-ARP-EV-MAP-000-076333-P03

Date: 14/06/17

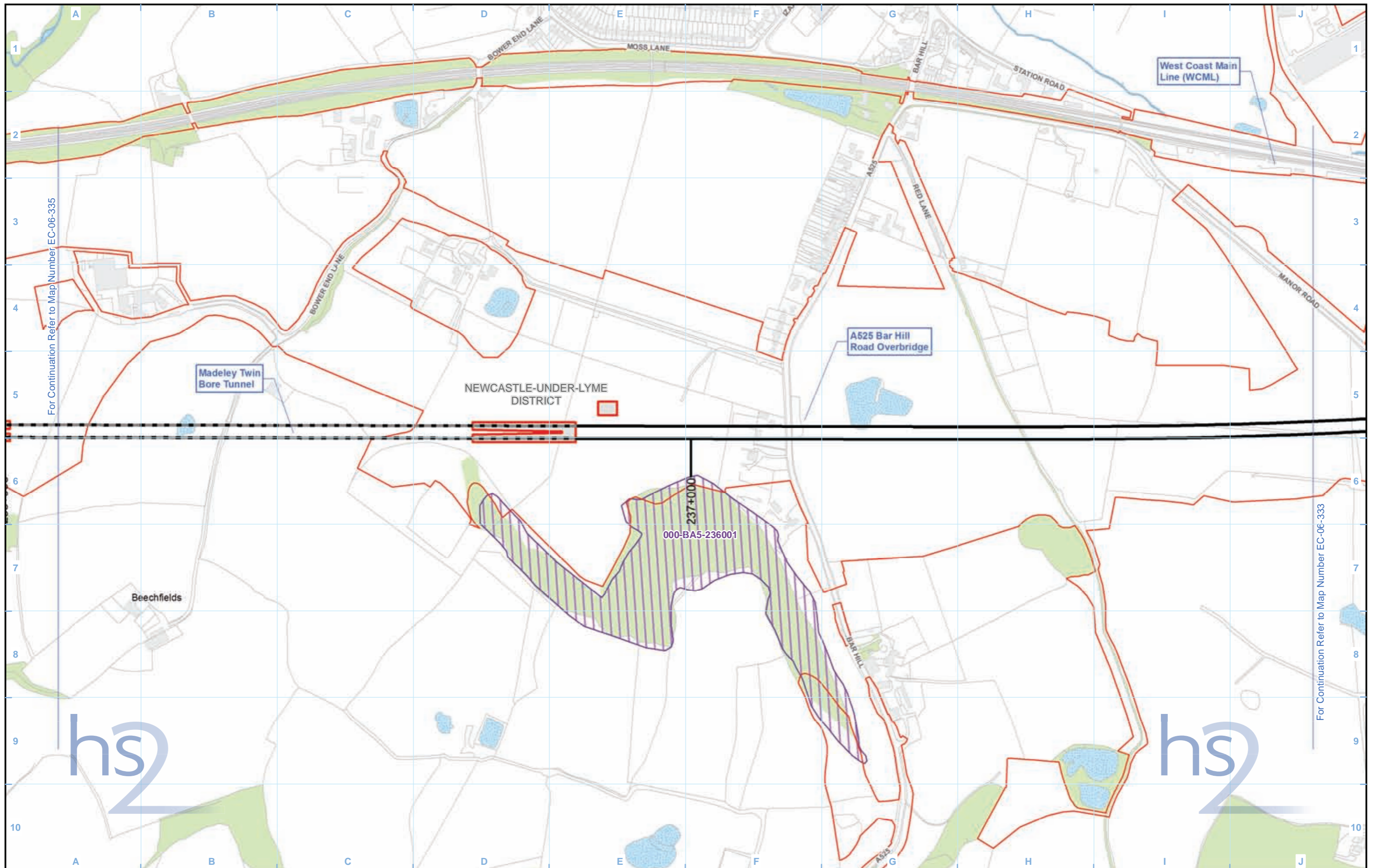


For Continuation Refer to Map Number EC-06-332-R1

For Continuation Refer to Map Number EC-06-333

<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
Map Number <b>EC-06-333-R1</b>				HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.	
Map Name <b>Bat - Activity</b>		Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.		Scale at A3: 1:5,000 	
Community Area 4: <b>Whitmore Heath to Madeley</b>		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		Doc Number: C861-ARP-EV-MAP-000-076433-P03 Date: 14/06/17	





For Continuation Refer to Map Number EC-06-335

For Continuation Refer to Map Number EC-06-333

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat

Map Number	EC-06-334
Map Name	Bat - Activity
Community Area 4: Whitmore Heath to Madeley	

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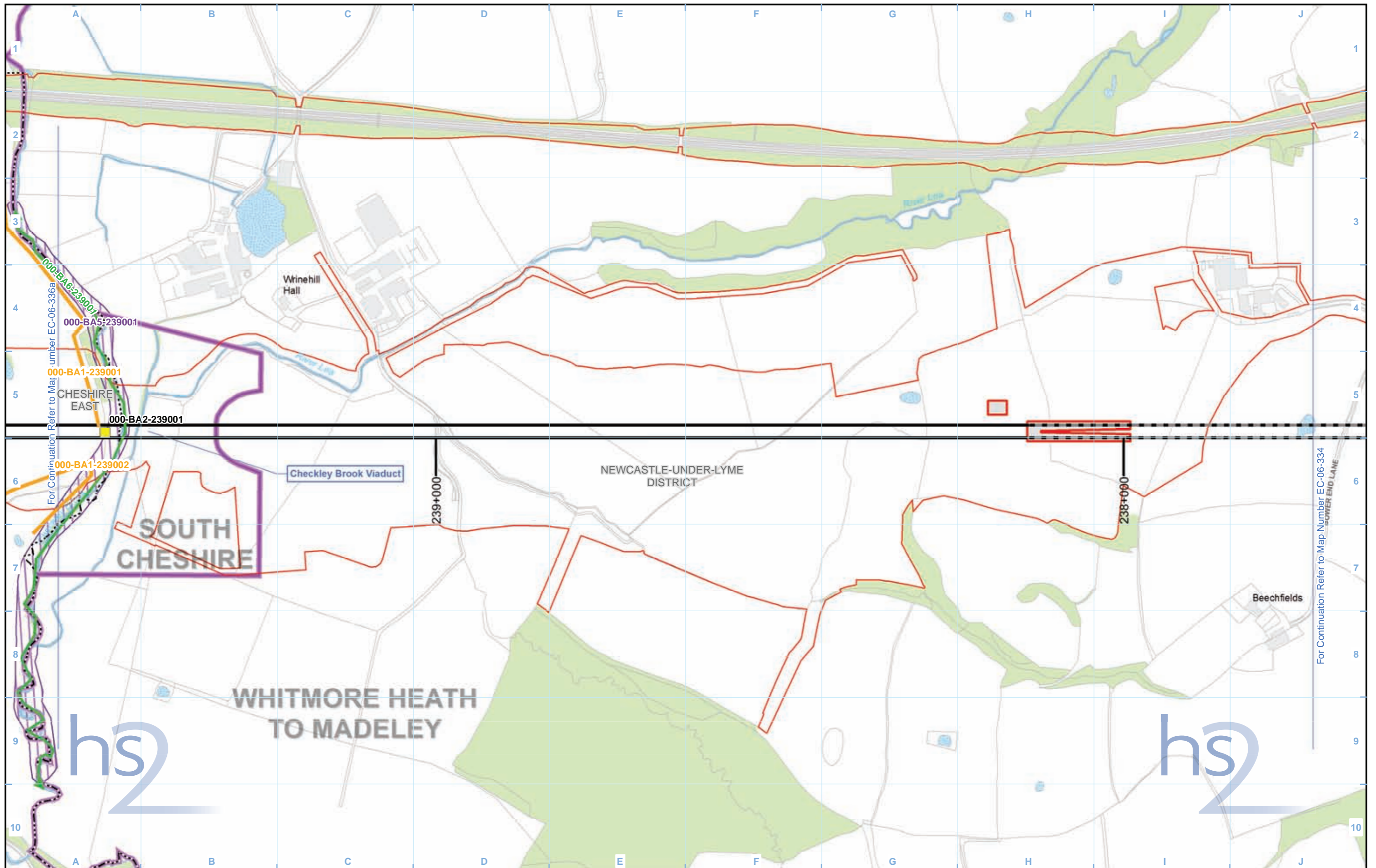
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Scale at A3: 1:5,000

Metres

Date: 14/06/17

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- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Water body
  - Woodland (verified by survey)
  - Bat activity static detector location
  - Activity transect route
  - Assumed key commuting route
  - Assumed key areas of foraging habitat

Map Number	EC-06-335
Map Name	Bat - Activity
	Community Area 4: Whitmore Heath to Madeley

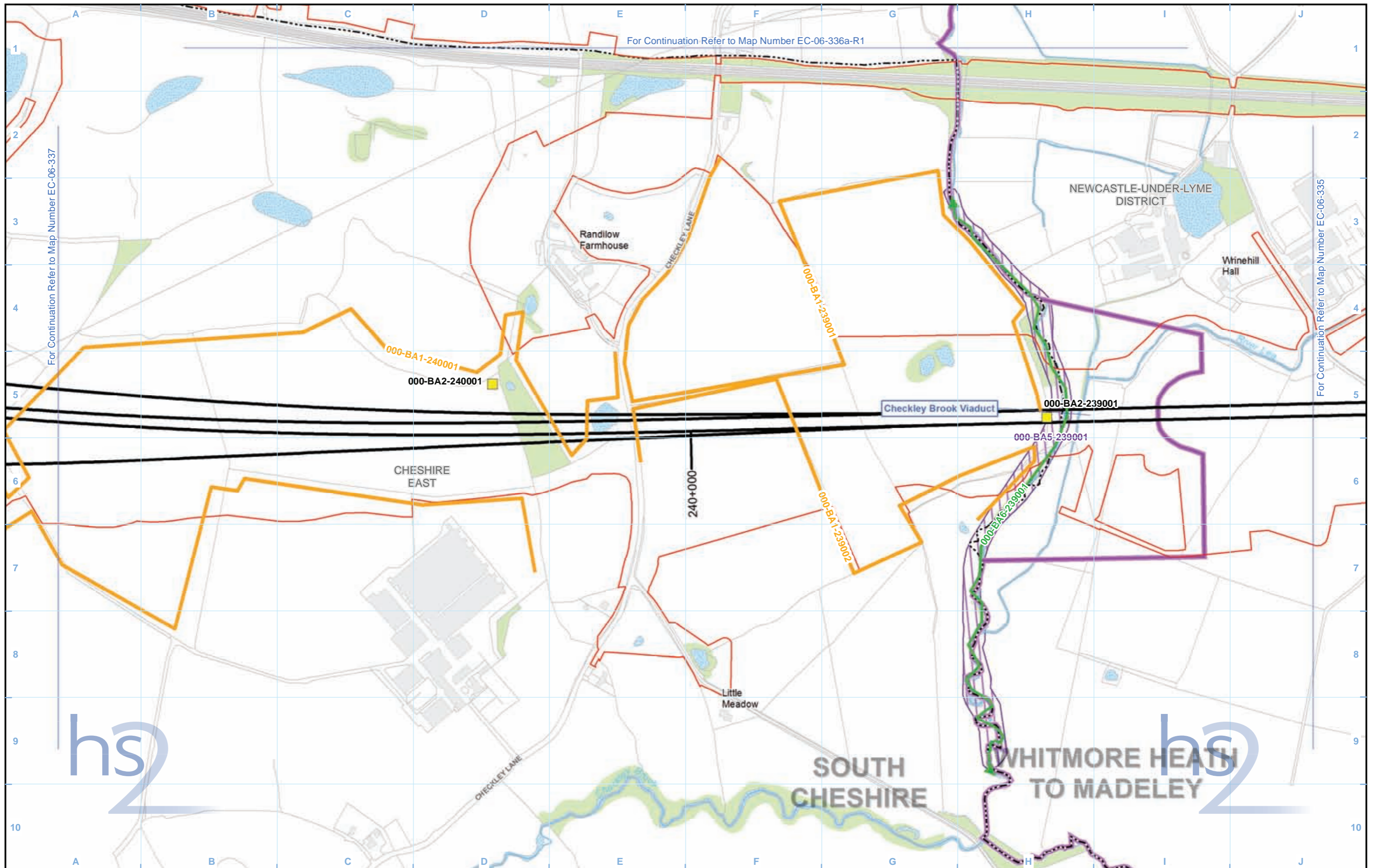
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For Continuation Refer to Map Number EC-06-336a-R1

For Continuation Refer to Map Number EC-06-337

For Continuation Refer to Map Number EC-06-335

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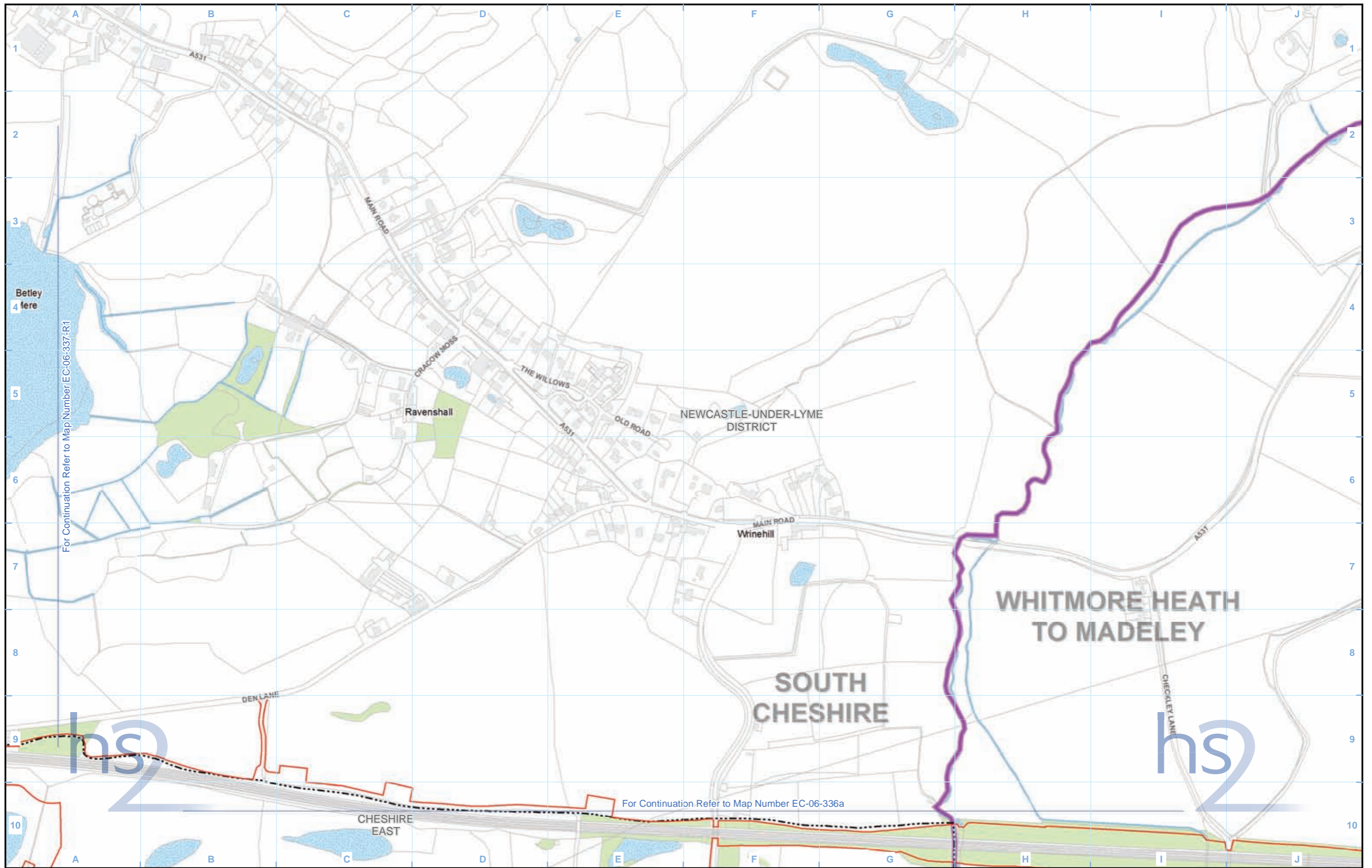
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240+000



<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland (verified by survey) Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat		Map Number <b>EC-06-336a</b>	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.  Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190. Scale at A3: 1:5,000  Doc Number: C861-ARP-EV-MAP-000-076336-P03 Date: 14/06/17
Map Name <b>Bat - Activity</b>			
Community Area 4: <b>Whitmore Heath to Madeley</b>			



For Continuation Refer to Map Number EC-06-337-R1

For Continuation Refer to Map Number EC-06-336a

- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)

- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number	EC-06-336a-R1
Map Name	Bat - Activity
Community Area 4: Whitmore Heath to Madeley	

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Doc Number: C861-ARP-EV-MAP-000-076436-P03

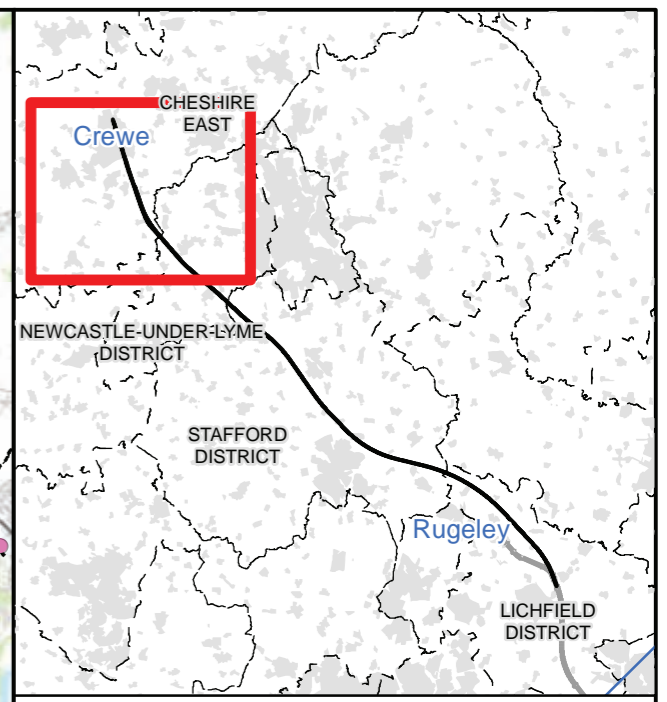
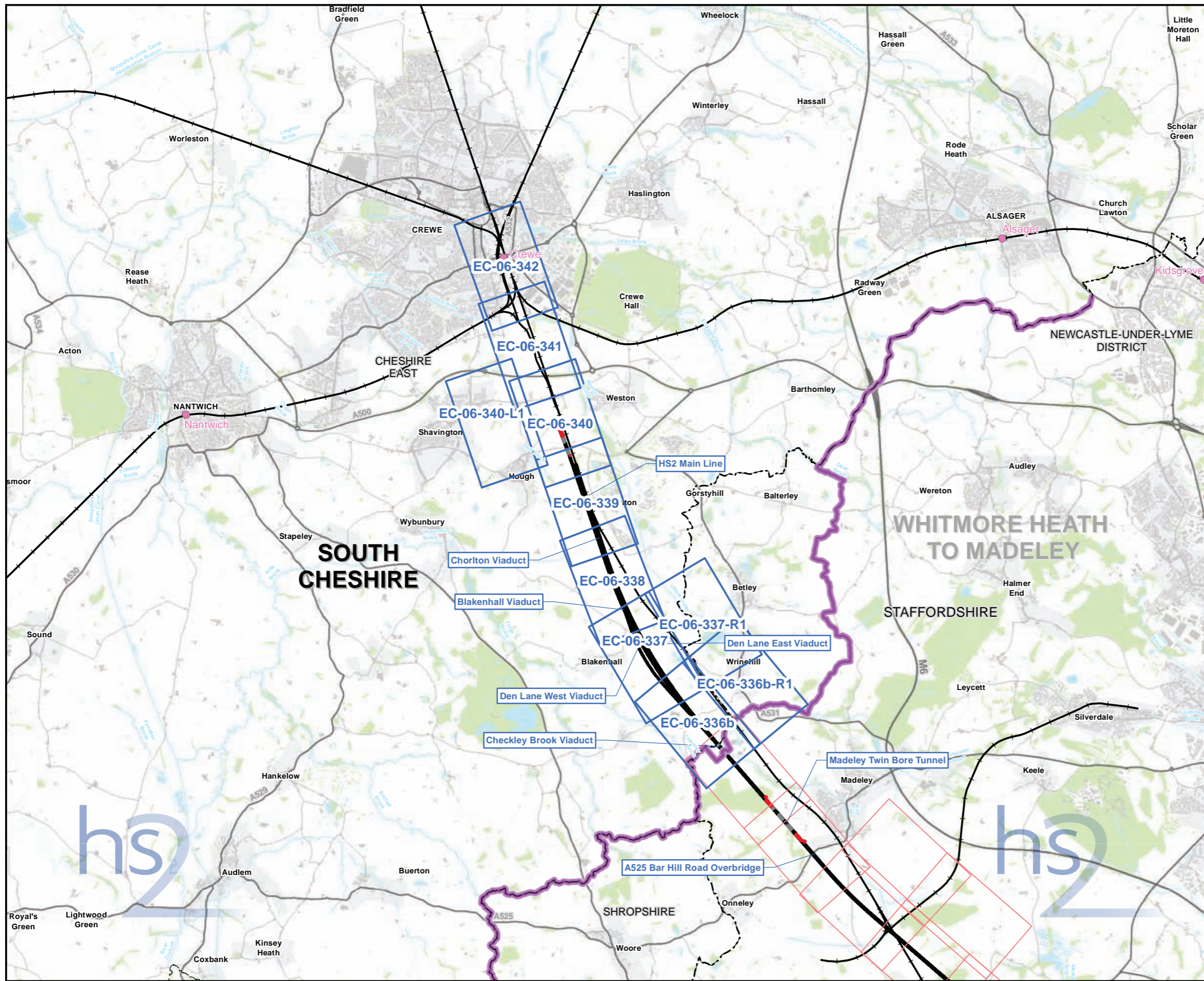
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Scale at A3: 1:5,000

Metres

Date: 14/06/17

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**Map Series Information:**

This map series shows the location of bat activity surveys conducted to inform the Environmental Statement. In addition it shows the location of the key bat foraging and commuting routes which have been established on the basis of the survey work conducted.

**Main Map Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number: EC-06-INDEX-CA5

Map Name: Index Map of: Bat - Activity

Community Area 5: South Cheshire

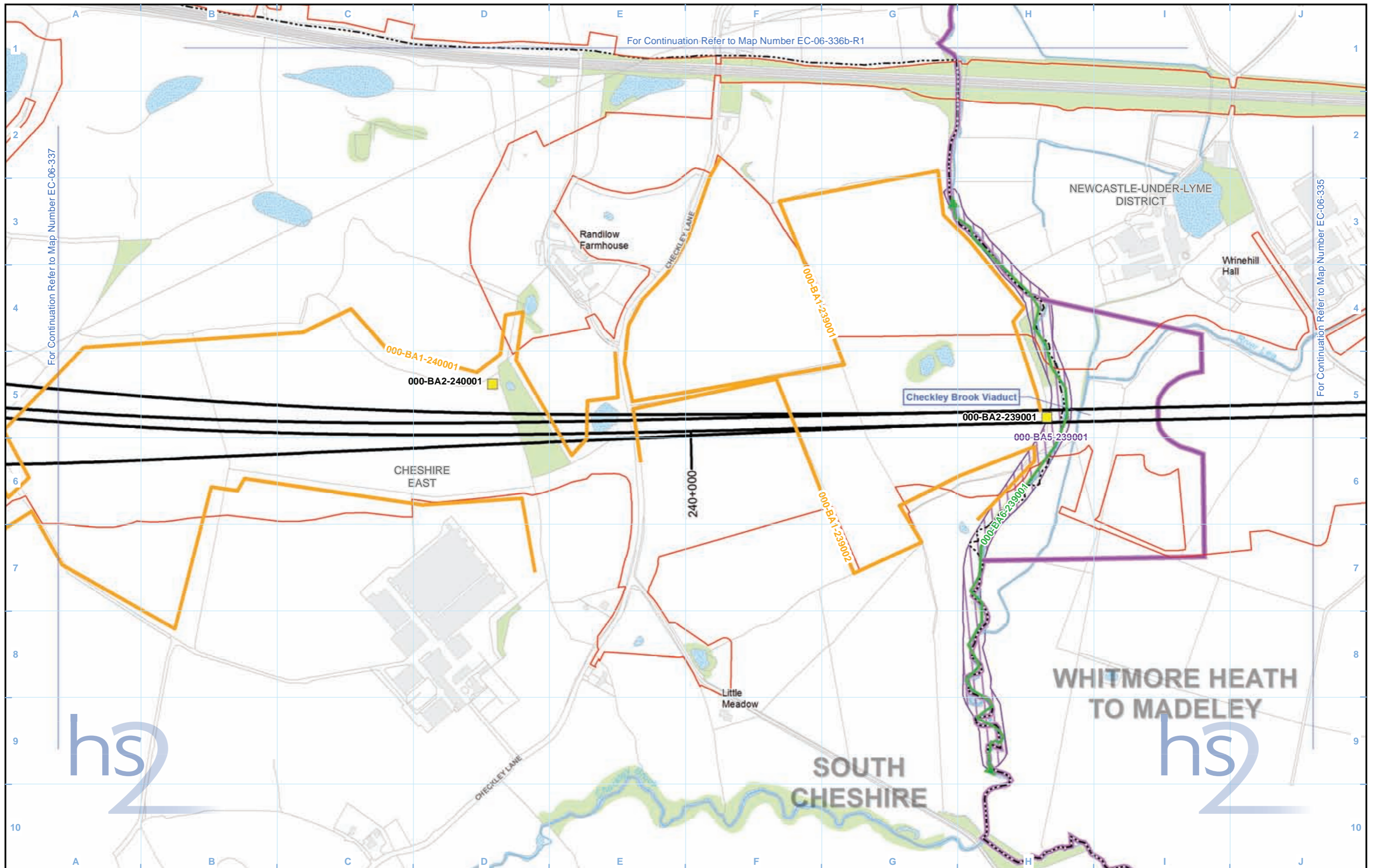
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For Continuation Refer to Map Number EC-06-336b-R1

For Continuation Refer to Map Number EC-06-337

For Continuation Refer to Map Number EC-06-335

- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)

- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number	EC-06-336b
Map Name	Bat - Activity
	Community Area 5: South Cheshire

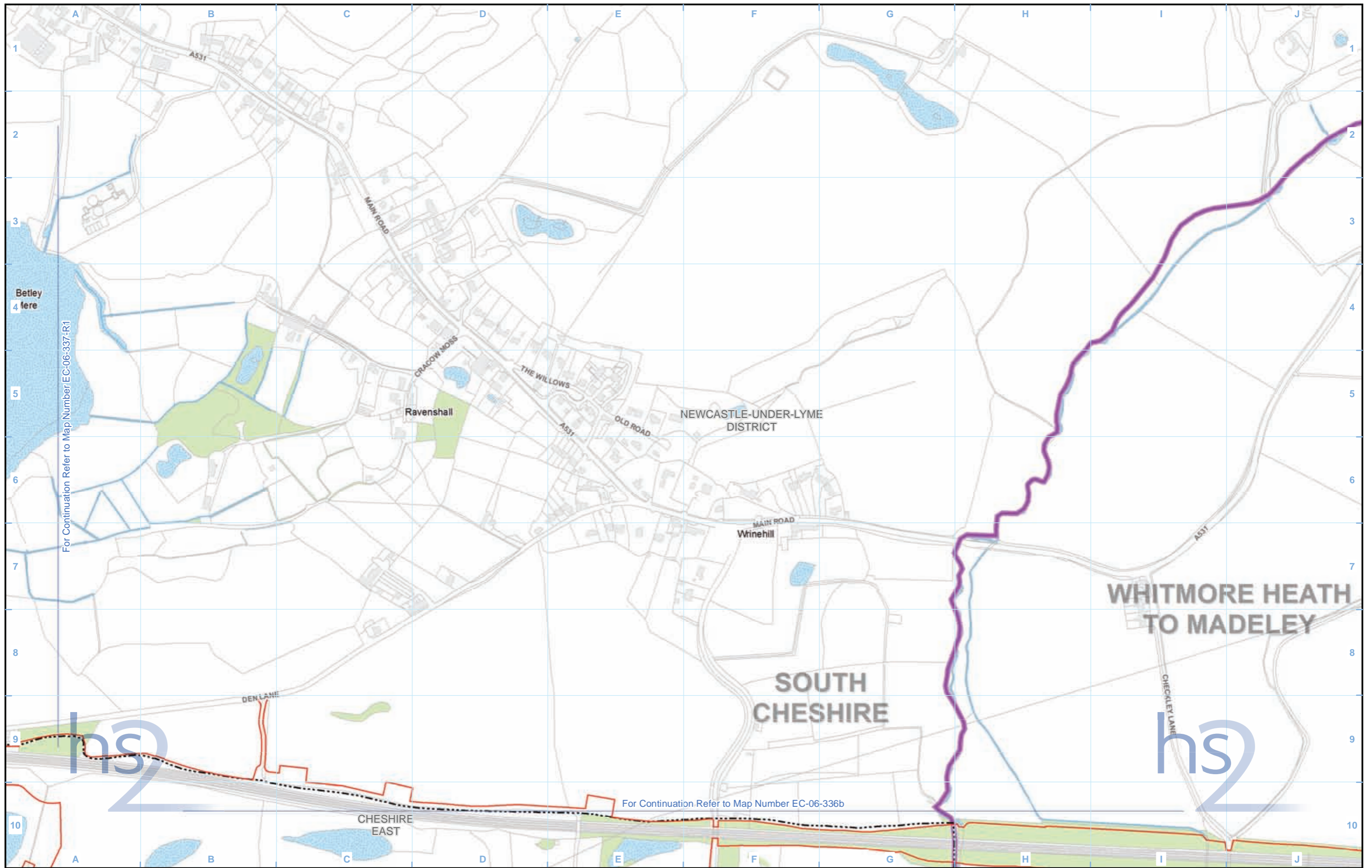
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For Continuation Refer to Map Number EC-06-337-R1

For Continuation Refer to Map Number EC-06-336b

- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)

- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number	EC-06-336b-R1
Map Name	Bat - Activity
	Community Area 5: South Cheshire

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Doc Number: C861-ARP-EV-MAP-000-076636-P03

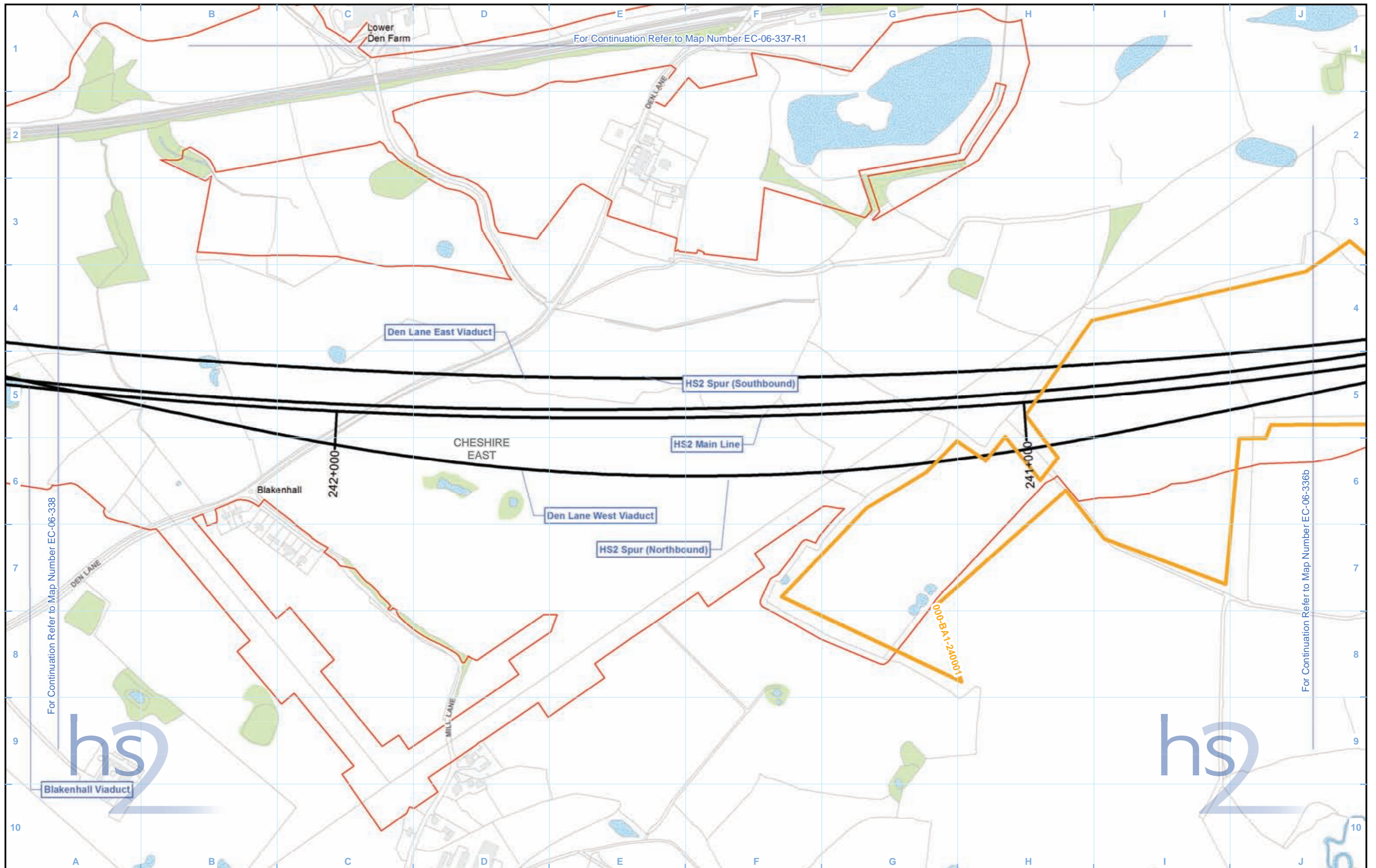
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Metres

Date: 14/06/17





**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number	EC-06-337
Map Name	Bat - Activity
	Community Area 5: South Cheshire

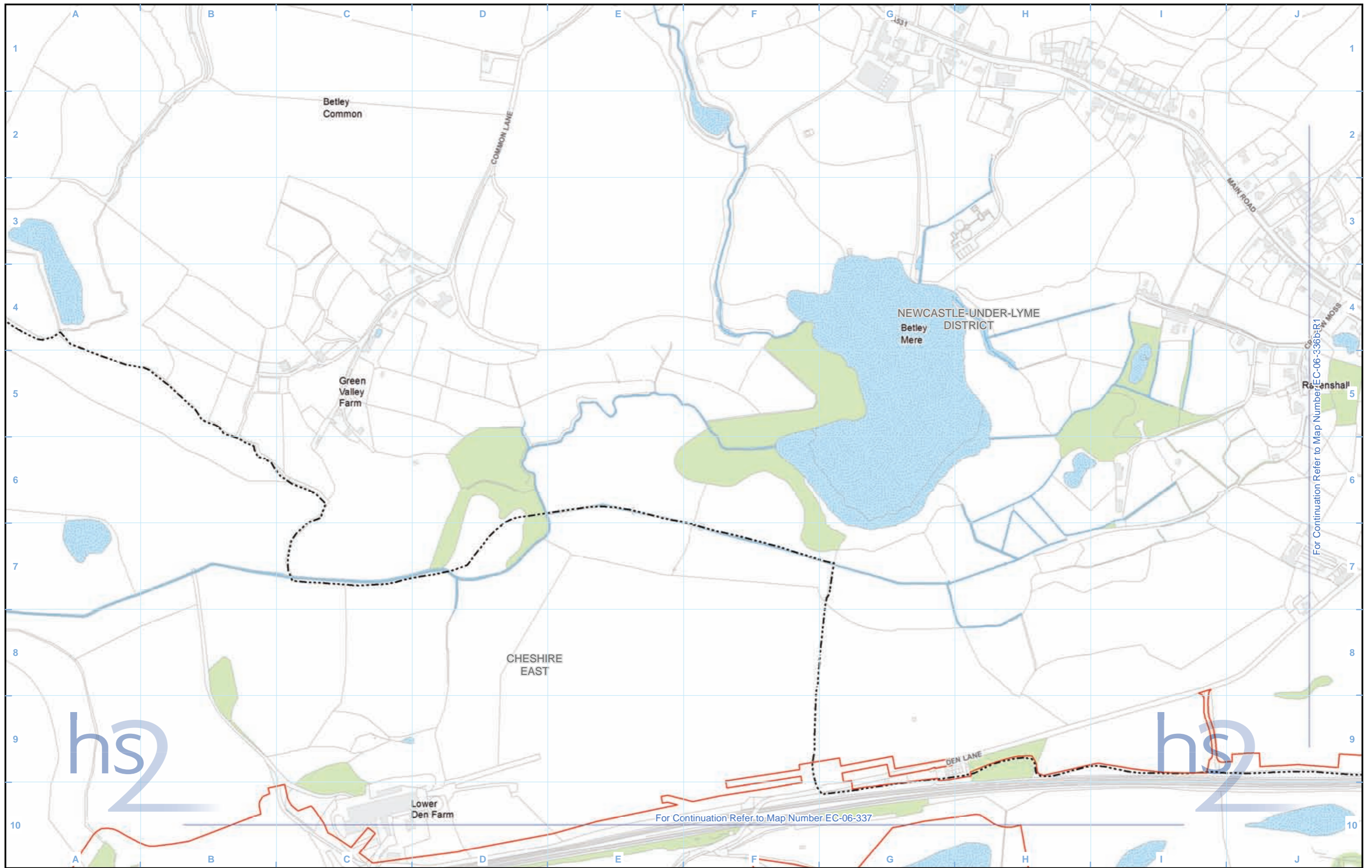
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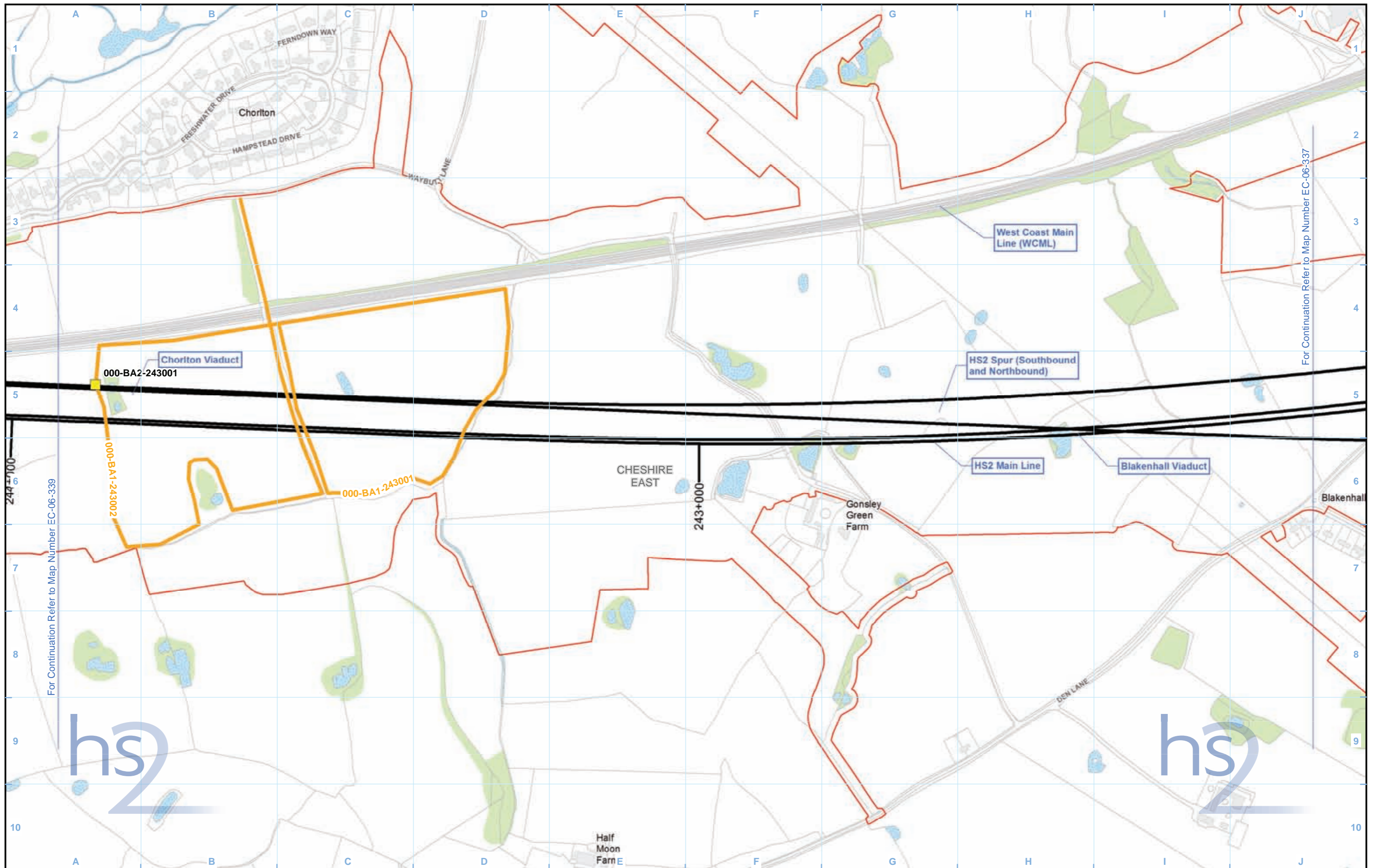
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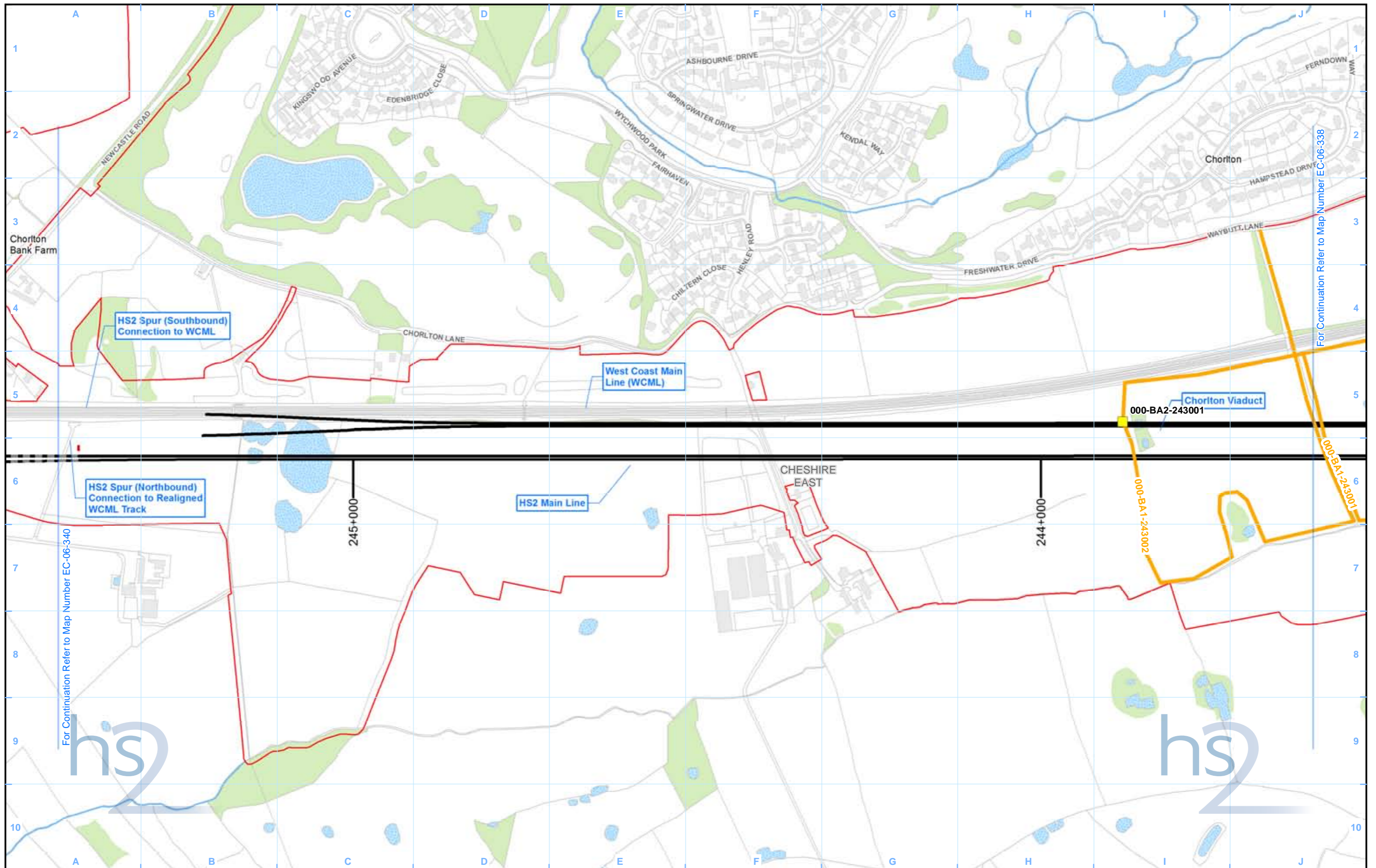
<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
<b>Map Number</b> EC-06-337-R1				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
<b>Map Name</b> Bat - Activity		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area 5:</b> South Cheshire		<small>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</small>		<small>Doc Number: C861-ARP-EV-MAP-000-076437-P03</small>	
				<b>Date: 14/06/17</b>	

For Continuation Refer to Map Number EC-06-336b-R1

For Continuation Refer to Map Number EC-06-337



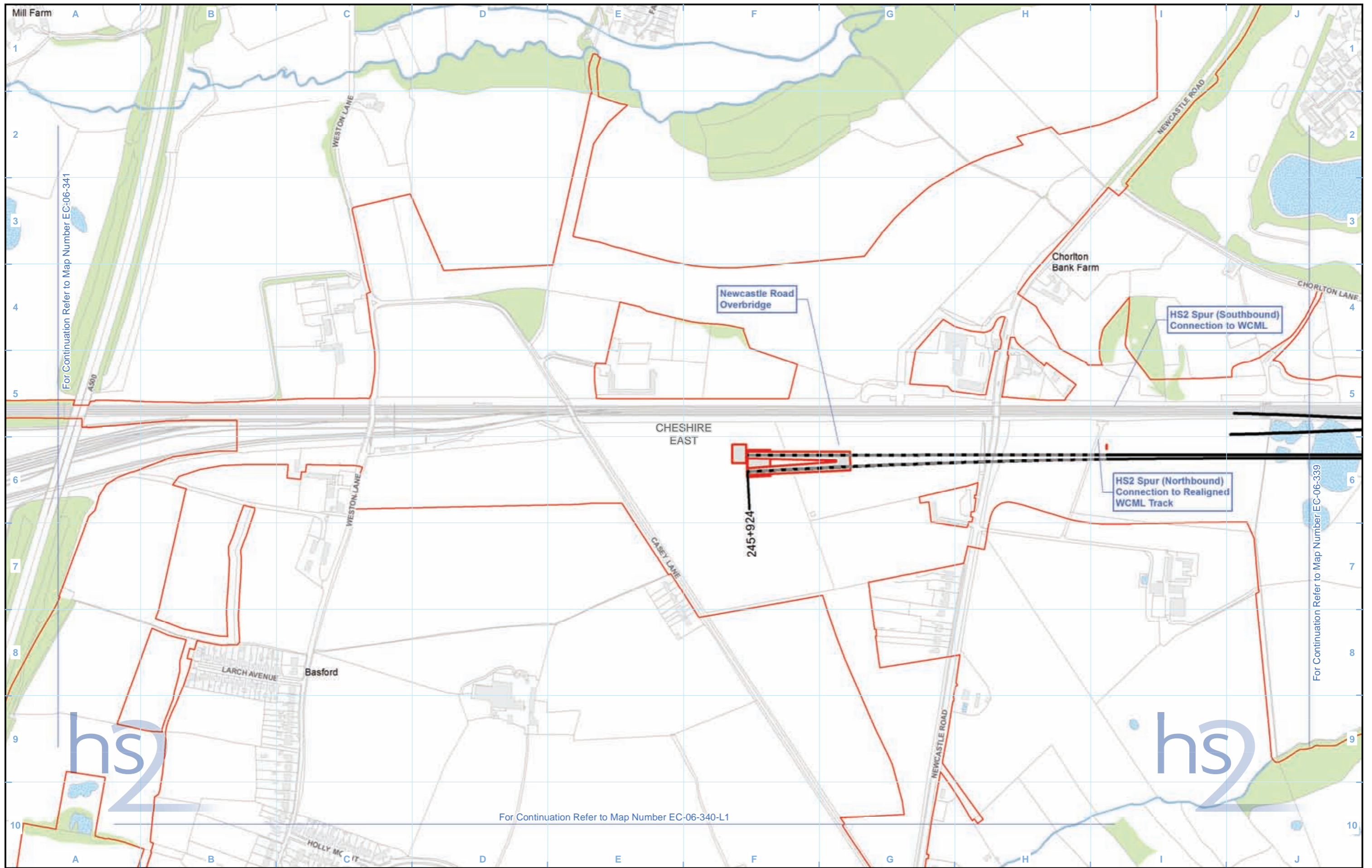
<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland (verified by survey) Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat		Map Number <b>EC-06-338</b>	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.  Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190. <b>Doc Number:</b> C861-ARP-EV-MAP-000-076338-P03 <b>Date:</b> 14/06/17
Map Name <b>Bat - Activity</b>			
Community Area 5: South Cheshire		Scale at A3: 1:5,000  Metres	



For Continuation Refer to Map Number EC-06-340

For Continuation Refer to Map Number EC-06-338

<b>Legend</b> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland (verified by survey)		Bat activity static detector location Activity transect route Assumed key commuting route Assumed key areas of foraging habitat	
<b>Map Number</b> EC-06-339			
<b>Map Name</b> Bat - Activity		<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small> 	
<b>Community Area 5:</b> South Cheshire		<small>Registered in England. Registration number 06791686.          Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small> <small>© Crown copyright and database rights 2017.          Ordnance Survey Licence Number 100049190.</small> <b>Scale at A3: 1:5,000</b> 	
<b>Doc Number:</b> C861-ARP-EV-MAP-000-076339-P03		<b>Date:</b> 14/06/17	



For Continuation Refer to Map Number EC-06-341

For Continuation Refer to Map Number EC-06-339

For Continuation Refer to Map Number EC-06-340-L1

Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Bat activity static detector location
	Community area boundary		Activity transect route
	County boundary		Assumed key commuting route
	District/Borough boundary		Assumed key areas of foraging habitat

Map Number	EC-06-340
Map Name	Bat - Activity
Community Area 5: South Cheshire	

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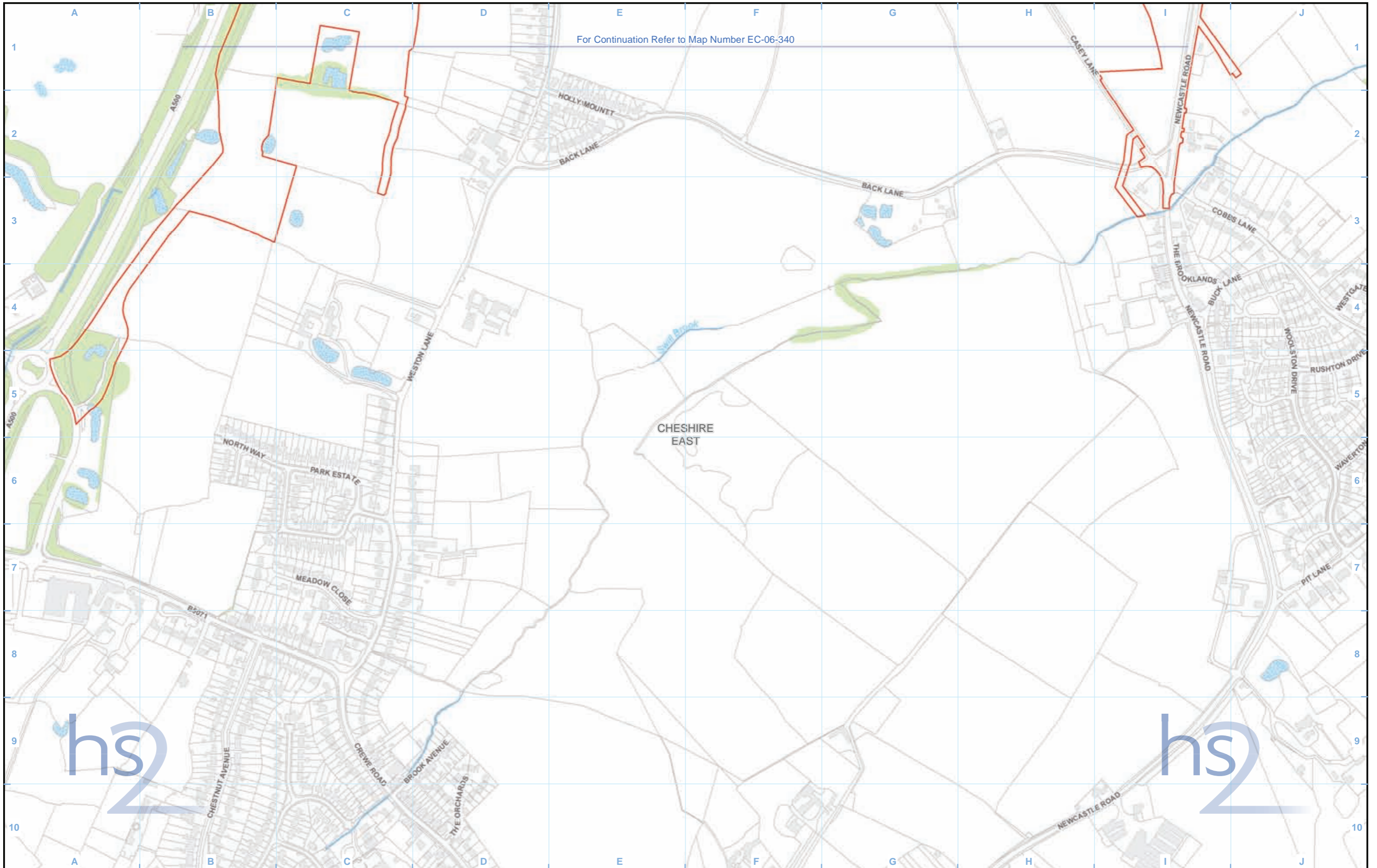
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Metres

Date: 14/06/17

For Continuation Refer to Map Number EC-06-340



**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)

- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number	EC-06-340-L1
Map Name	Bat - Activity
	Community Area 5: South Cheshire

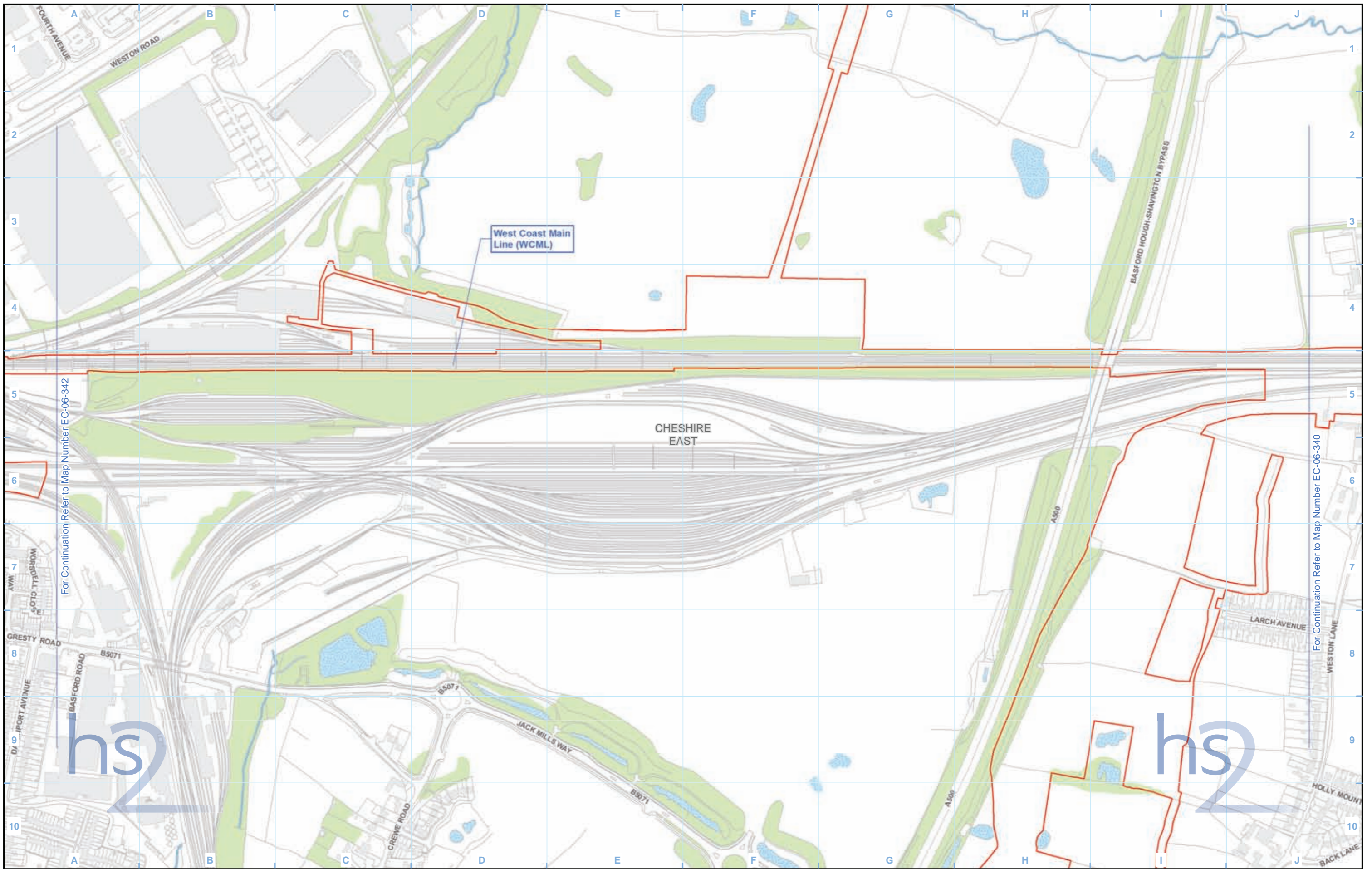
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**Legend**

	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary

	Watercourse
	Water body
	Woodland (verified by survey)

	Bat activity static detector location
	Activity transect route
	Assumed key commuting route
	Assumed key areas of foraging habitat

Map Number	EC-06-341
Map Name	Bat - Activity
Community Area 5: South Cheshire	

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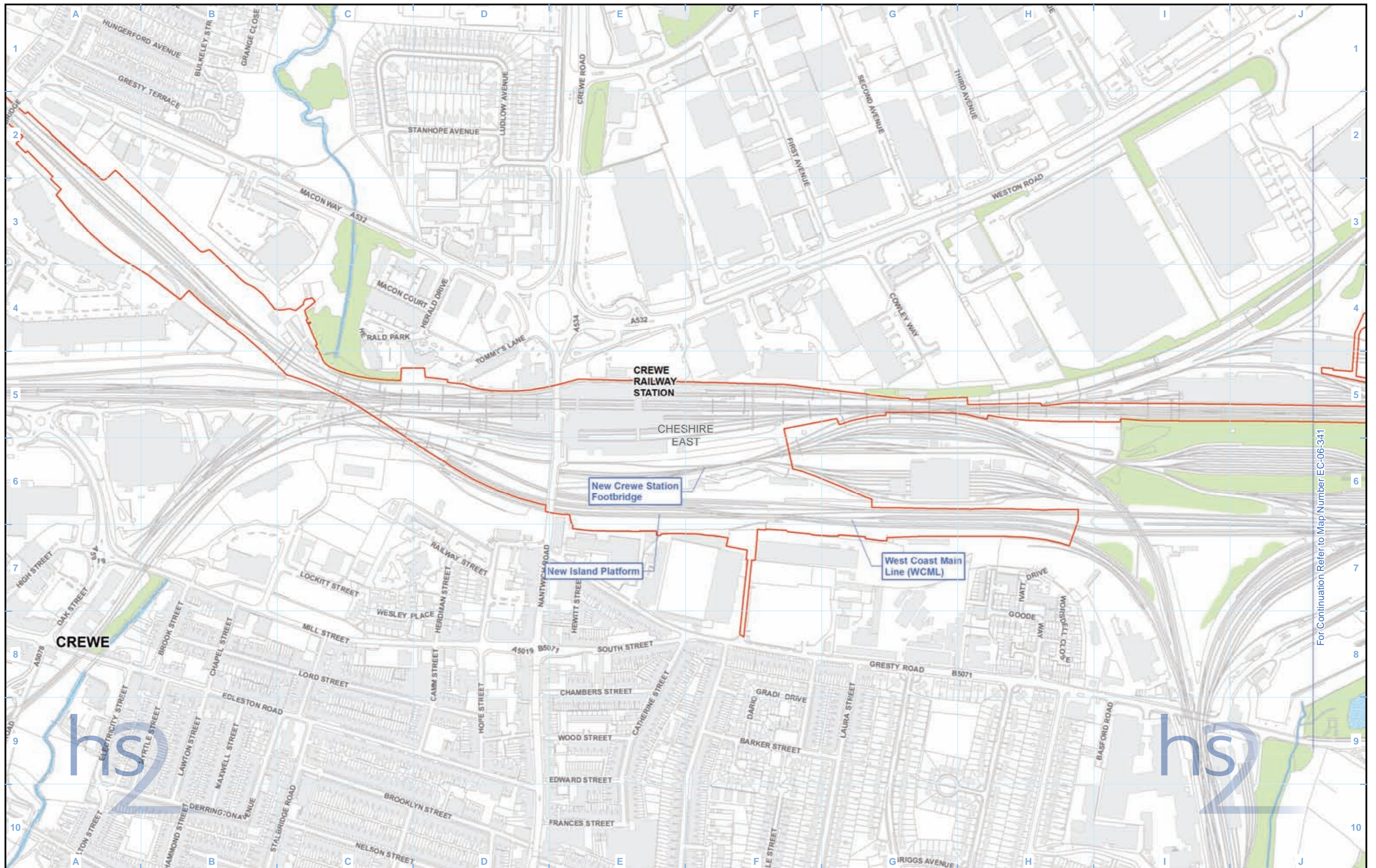
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Metres

**Date:** 14/06/17



For Continuation Refer to Map Number EC-06-341

<p><b>Legend</b></p> <ul style="list-style-type: none"> <li> Route in bored tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li> Bat activity static detector location</li> <li> Activity transect route</li> <li> Assumed key commuting route</li> <li> Assumed key areas of foraging habitat</li> </ul>	<p>Map Number: EC-06-342</p> <p>Map Name: Bat - Activity</p> <p>Community Area 5: South Cheshire</p>	<p></p> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C861-ARP-EV-MAP-000-076342-P03</p> <p>Scale at A3: 1:5,000</p> <p></p> <p>Date: 14/06/17</p>
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