

# **High Speed Rail (Crewe – Manchester)**

## **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 3

## **High Speed Rail (Crewe – Manchester)**

### **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 3





Department  
for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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**MWJV**

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# Contents

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Data dictionary and definitions

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 within 250m of the CCB of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field surveys, or the area mapped is between 250-500m from the CCB, the information is based on available desk studies 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. In addition, it shows the location of any 'exceptional' populations of common amphibians recorded.	Background Information and Data map book – Ecology Part 2
EC-05 – Bat - Roost	This map series shows results of field surveys conducted to investigate the potential for trees, buildings, or structures to support roosting bats. It shows the location of roosts confirmed by field surveys and features identified as having a high or moderate potential to support roosting bats.	Background Information and Data map book – Ecology Part 3
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 based on the survey work conducted.	Background Information and Data map book – Ecology Part 3
EC-07 - Reptiles	This map series shows the extent and results of survey work for common reptiles, 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 and/or notable breeding birds considering the impacts of the Proposed Scheme. 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 4
EC-09 - Wintering and Passage Birds – Protected and Notable Species	This map series shows records of selected protected and/or notable wintering birds considering the impacts of the Proposed Scheme.	Background Information and Data map book – Ecology Part 4
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 1
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 5
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 5

## Mapping explanatory notes

This map book is part of the background information and data (BID) for Phase 2b of the proposed High Speed Two (HS2) rail network between Crewe and Manchester (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 produced as part of the ES 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. As part of our licence conditions, all digital maps carry a watermark.

## Chainage

Most of the maps presented as part of the ES have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XXX+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 these map books are presented with the railway alignment running horizontally across the page. The direction of travel to London would be following the alignment to the left hand side of the page, and Leeds or Manchester to the right.

## **High Speed Rail (Crewe - Manchester)**

Background Information and Data  
Data dictionary and definitions

# Data dictionary and definitions

Legend features	Definition	Source	Copyright
Activity transect route	Transect route that was surveyed during bat activity surveys.	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 Environmental Statement has been split into eight sections called Community Areas.	High Speed Two (HS2) Ltd	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
Confirmed bat roost - building Potential to support roosting bats - buildings	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 Potential to support roosting bats - trees	Locations where bat roost survey has been completed within trees. 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	
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 2019.
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/Unitary authority boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.

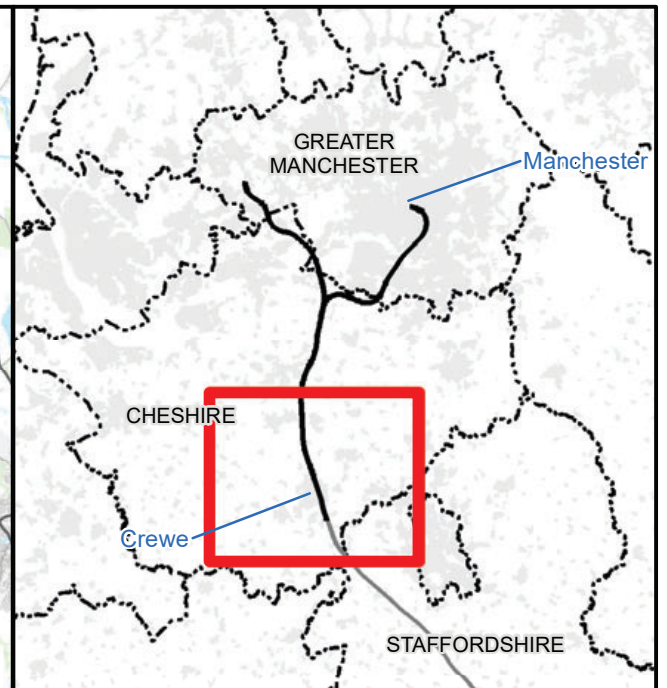
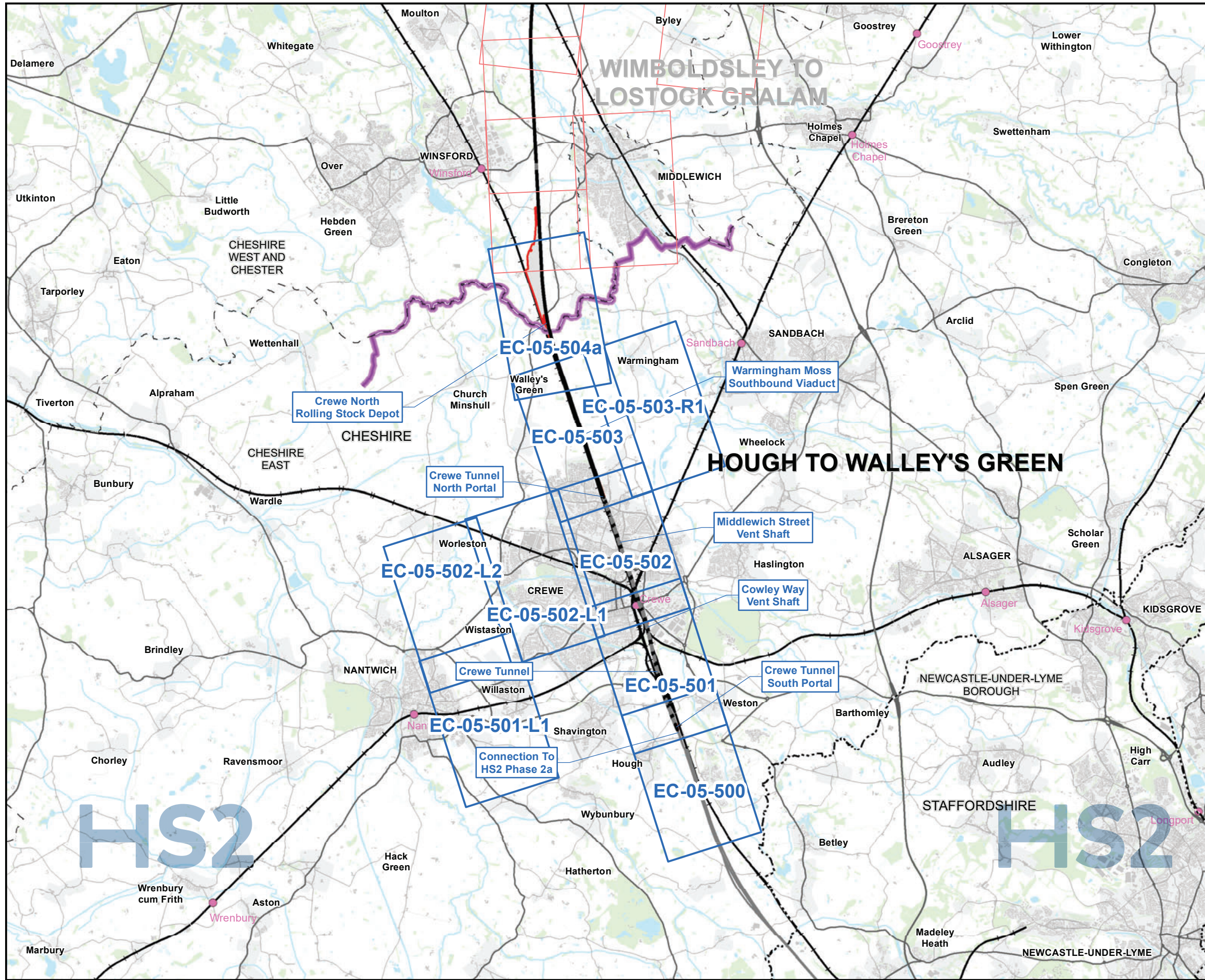
Legend features	Definition	Source	Copyright
Land potentially required during construction	Boundary defining the maximum possible extent of construction works required to build HS2 as far as the current level of design allows. This only covers surface works and includes all tunnel portals, vent shafts 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	
Route in tunnel	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
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 2019.
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.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
Woodland (not 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 2019.
Woodland (verified by survey)	Woodland areas derived from Ordnance Survey MasterMap data, limited in extent to 500m from the CCB.	High Speed Two (HS2) Ltd	

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## **High Speed Rail (Crewe - Manchester)**

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. The maps show 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-MA01
Map Name	Index Map of: Bat - Roost
	Community Area MA01: Hough to Walley's Green

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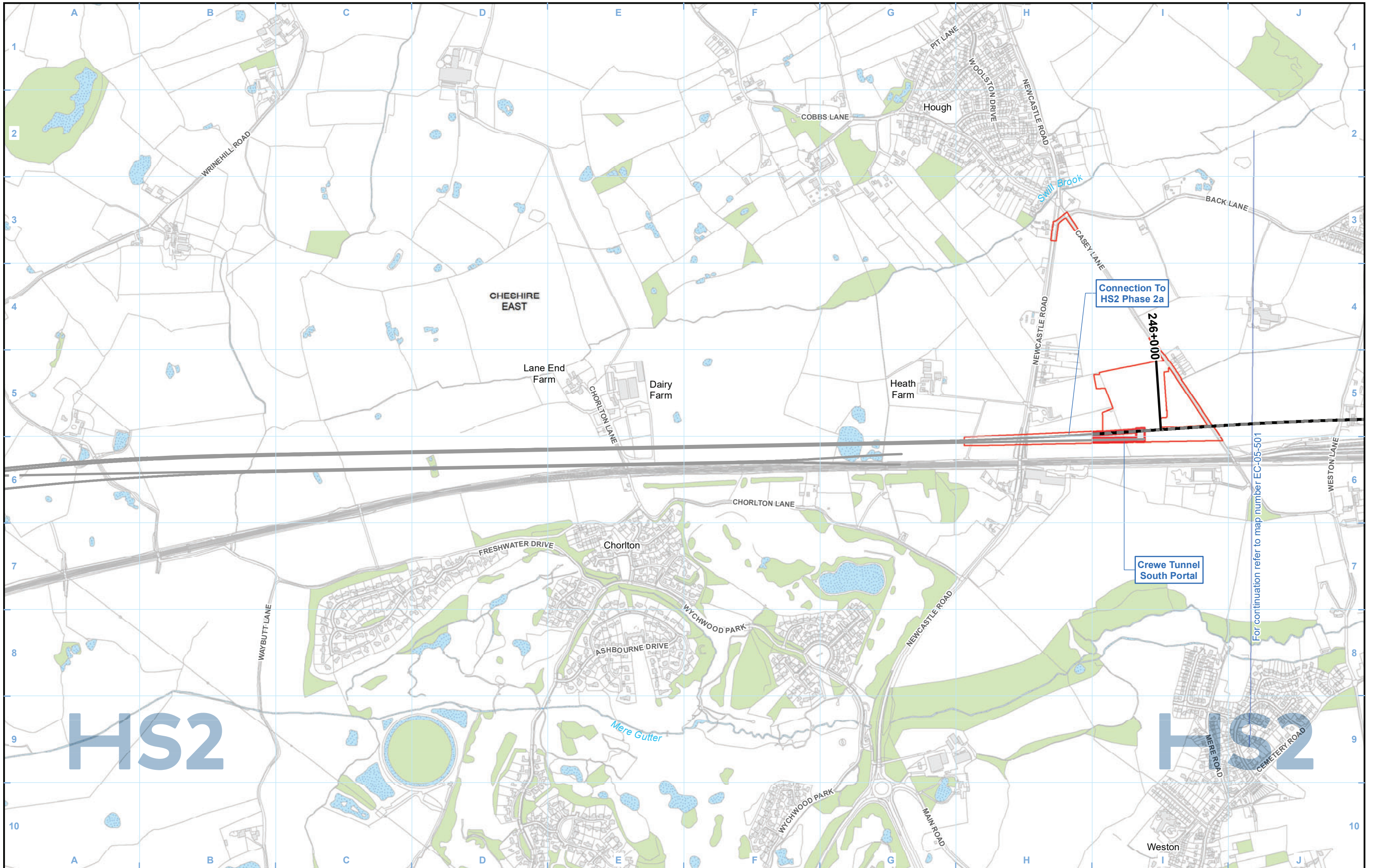
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**Legend**

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

Map Number	EC-05-500
Map Name	Bat - Roost
Community Area MA01: Hough to Walley's Green	

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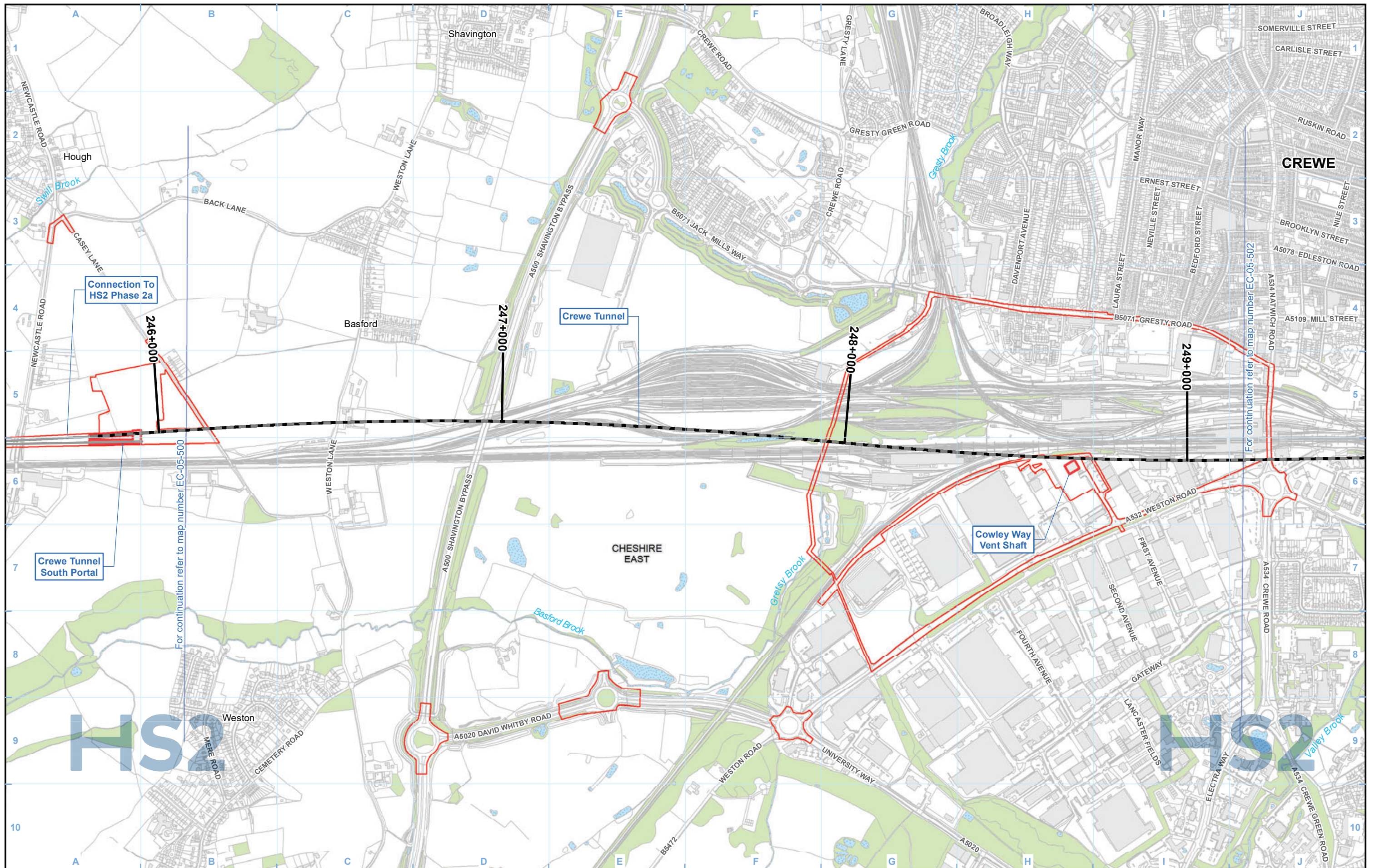
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0 100 200 300 400 Metres

Date: 06/08/21

For continuation refer to map number EC-05-501





**Legend**

- Route in 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-05-501

Map Name: Bat - Roost

Community Area MA01:  
Hough to Walley's Green

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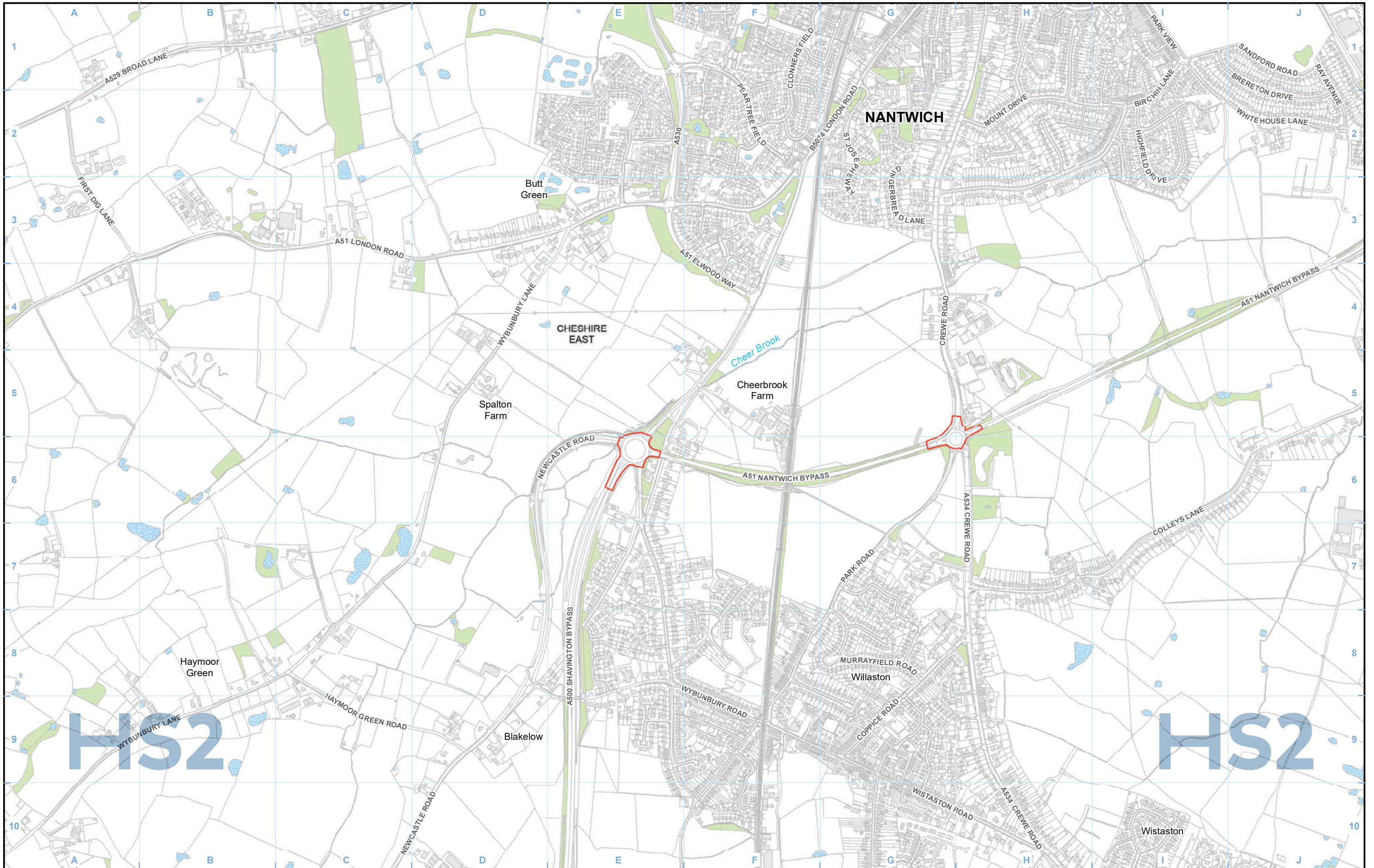
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For continuation refer to map number EC-05-502

For continuation refer to map number EC-05-500





Legend	
	Route in 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-05-501-L1
Map Name	Bat - Roost
Community Area MA01: Hough to Walley's Green	

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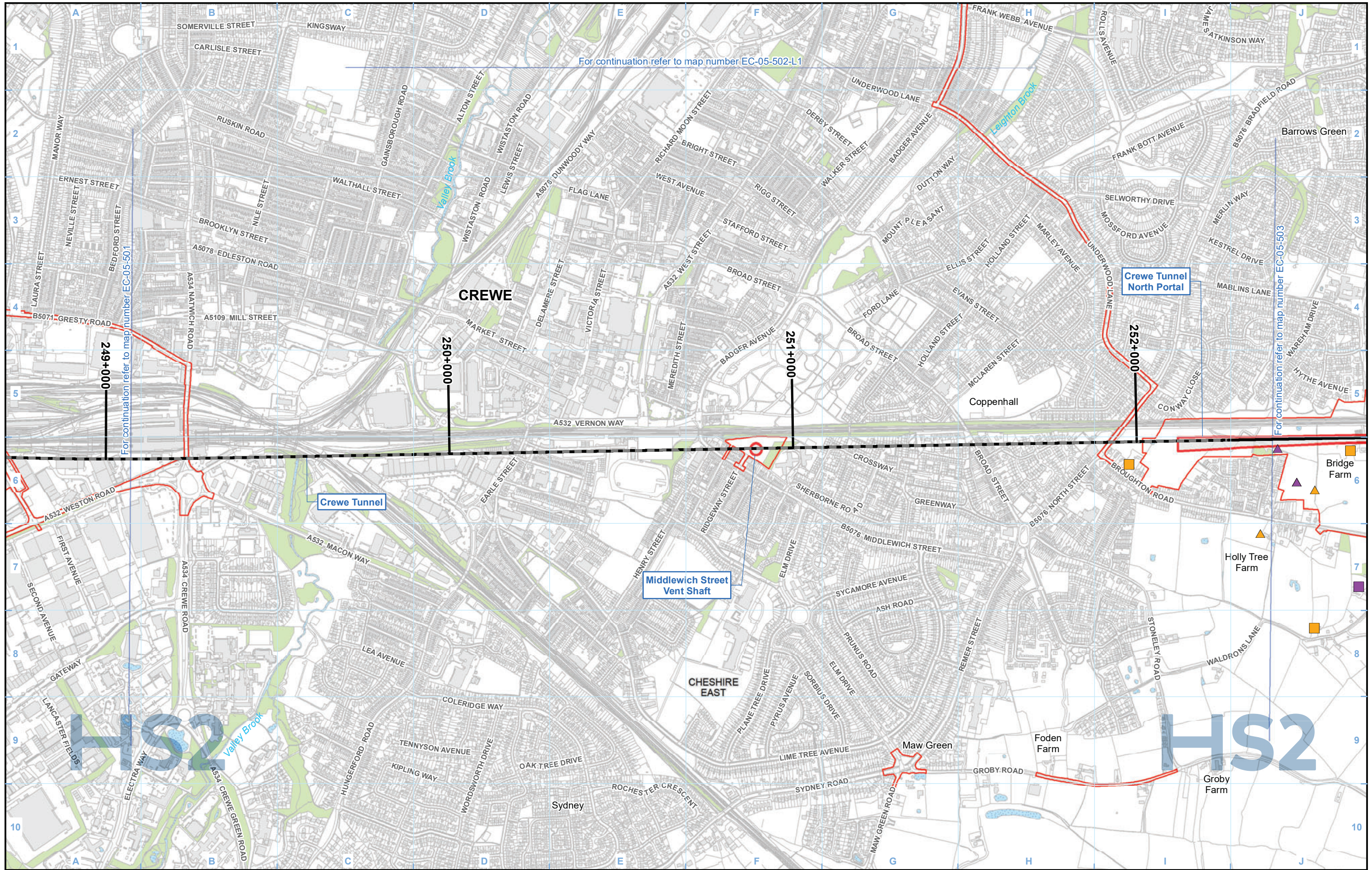
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For continuation refer to map number EC-05-502-L1

For continuation refer to map number EC-05-501

For continuation refer to map number EC-05-503

<b>Legend</b> Route in 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-05-502</b>				Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.		Scale at A3: 1:10,000 			
Map Name <b>Bat - Roost</b>		Community Area MA01: Hough to Walley's Green		© Crown copyright and database rights 2020 OS 100049190		Doc Number: 2DE01-MWJ-EV-MAP-M000-000994-P01.5 Date: 06/08/21			



For continuation refer to map number EC-05-502-L2

For continuation refer to map number EC-05-502



**Legend**

- Route in 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-05-502-L1

Map Name: Bat - Roost

Community Area MA01:  
Hough to Walley's Green

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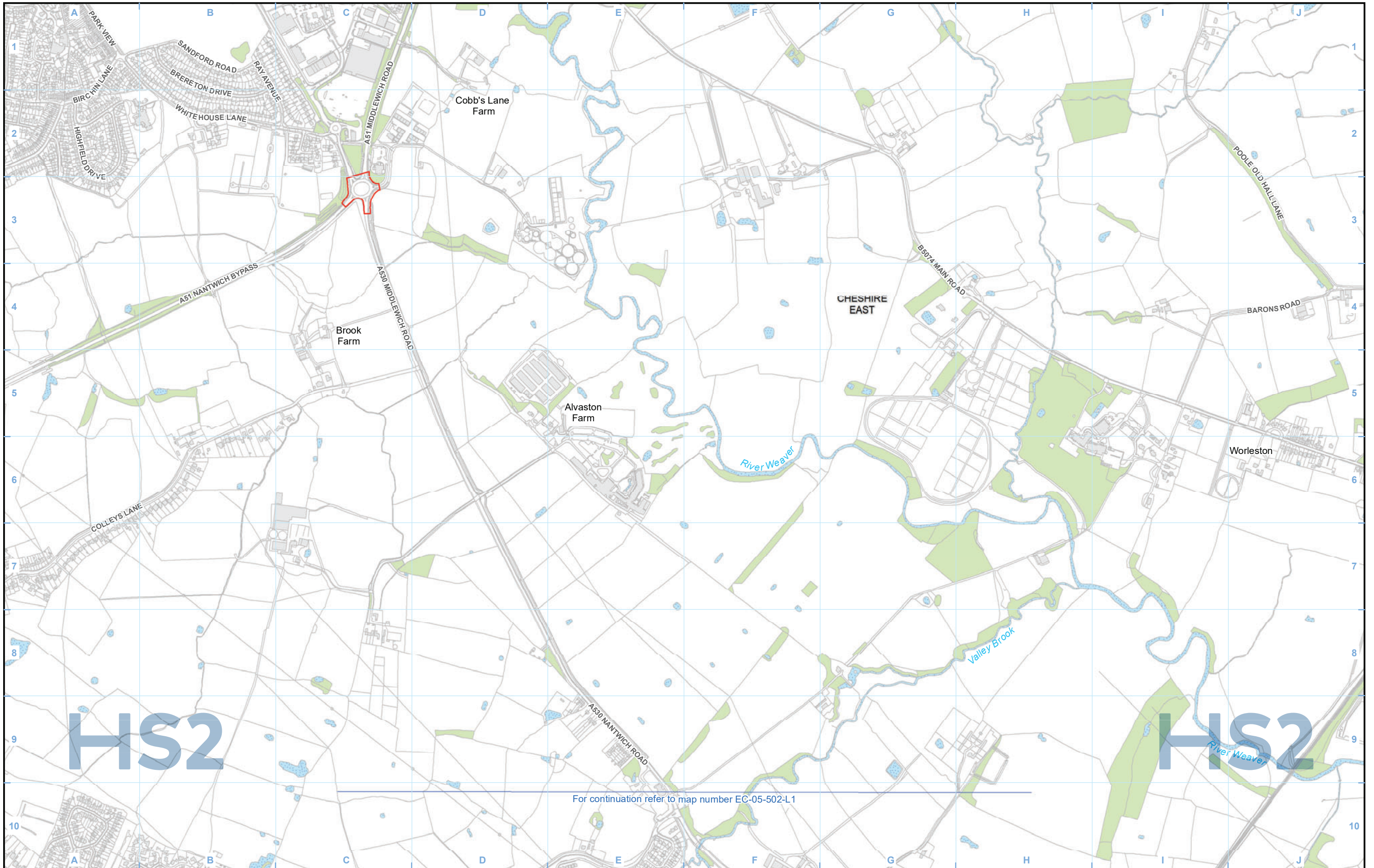
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Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in tunnel		Hibernation roost		Hibernation roost		High
	Route on surface		Maternity roost		Maternity roost		Moderate
	Depot, 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-05-502-L2
Map Name	Bat - Roost
	Community Area MA01: Hough to Walley's Green

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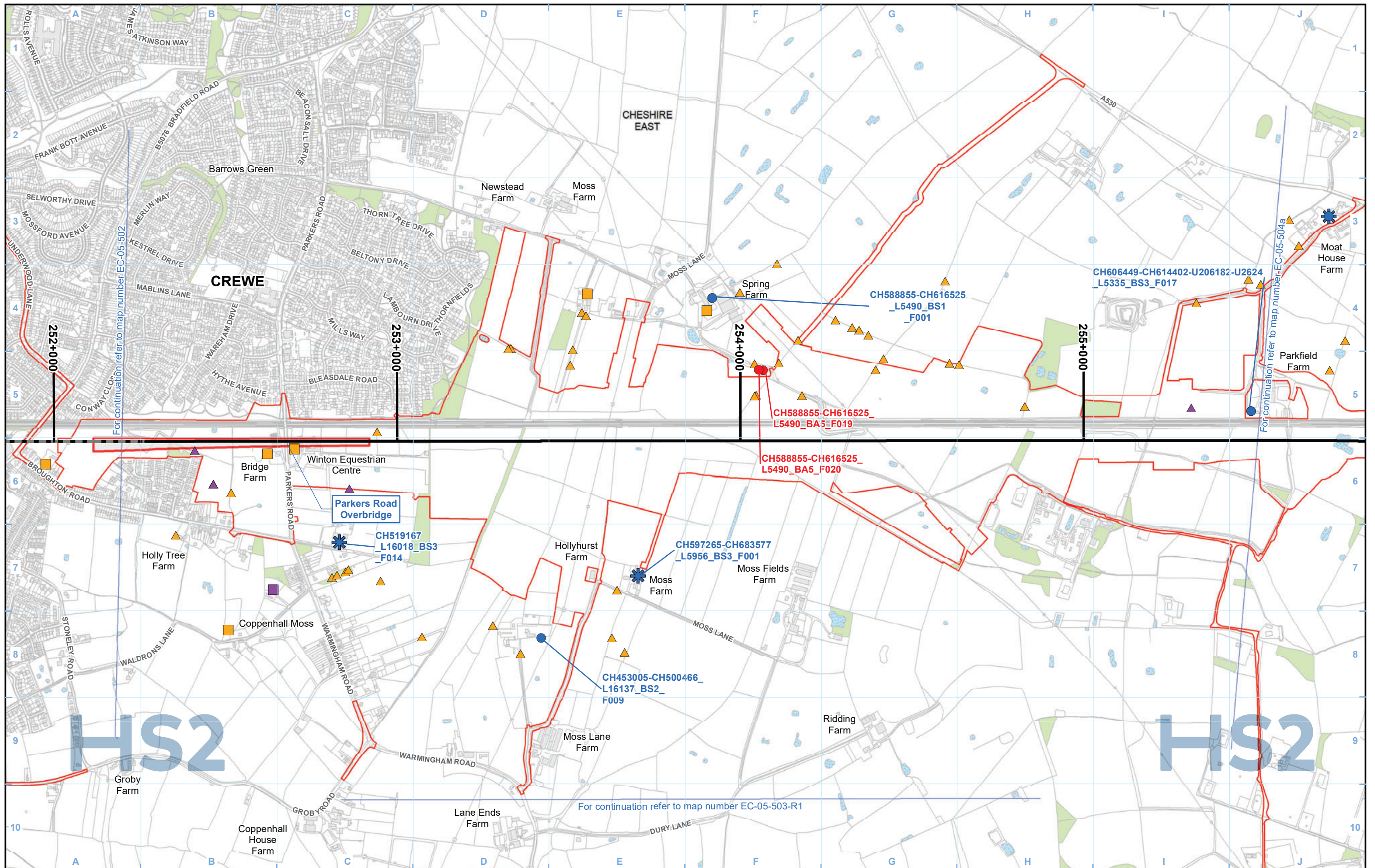
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**Legend**

- |  |   |  |   |   |
|--|---|--|---|---|
| <ul style="list-style-type: none"> <li> Route in 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> |
|--|---|--|---|---|

Map Number	EC-05-503
Map Name	Bat - Roost
Community Area MA01: Hough to Walley's Green	

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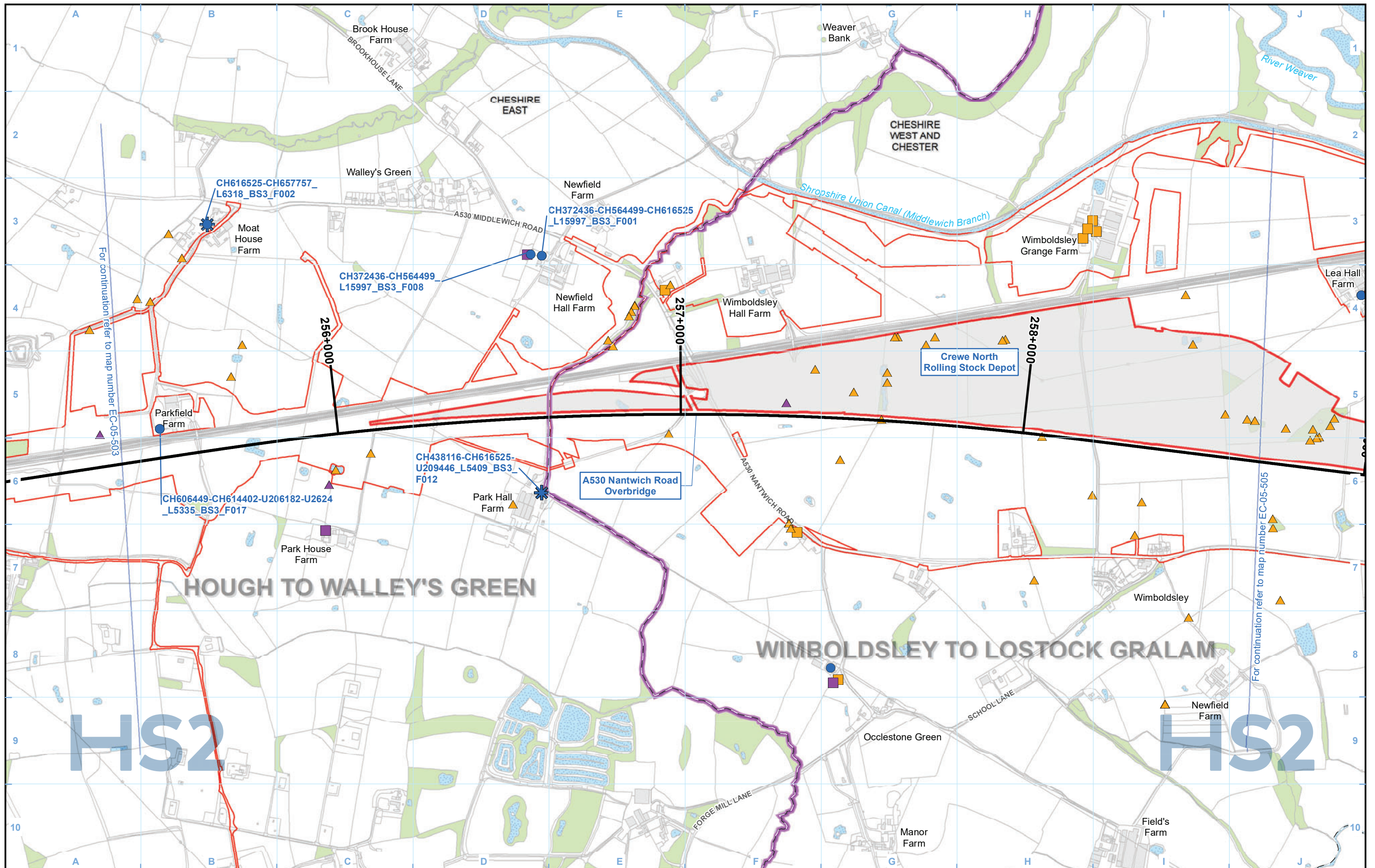
For continuation refer to map number EC-05-503

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<b>Legend</b> Route in 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-05-503-R1</b>				Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.				Scale at A3: 1:10,000 	
Map Name <b>Bat - Roost</b>		Community Area MA01: Hough to Walley's Green		© Crown copyright and database rights 2020 OS 100049190		Doc Number: 2DE01-MWJ-EV-MAP-M000-003612-P01.5		Date: 06/08/21	





**Legend**

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

Map Number	EC-05-504a
Map Name	Bat - Roost
Community Area MA01:	Hough to Walley's Green

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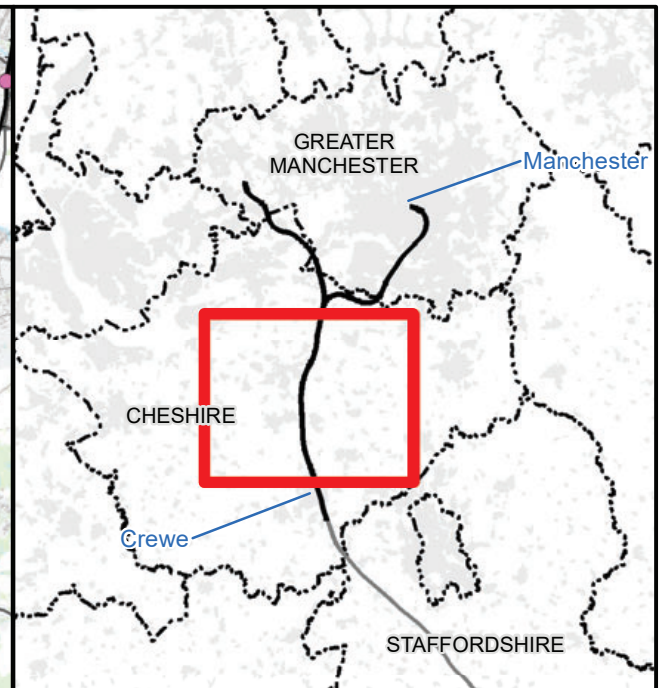
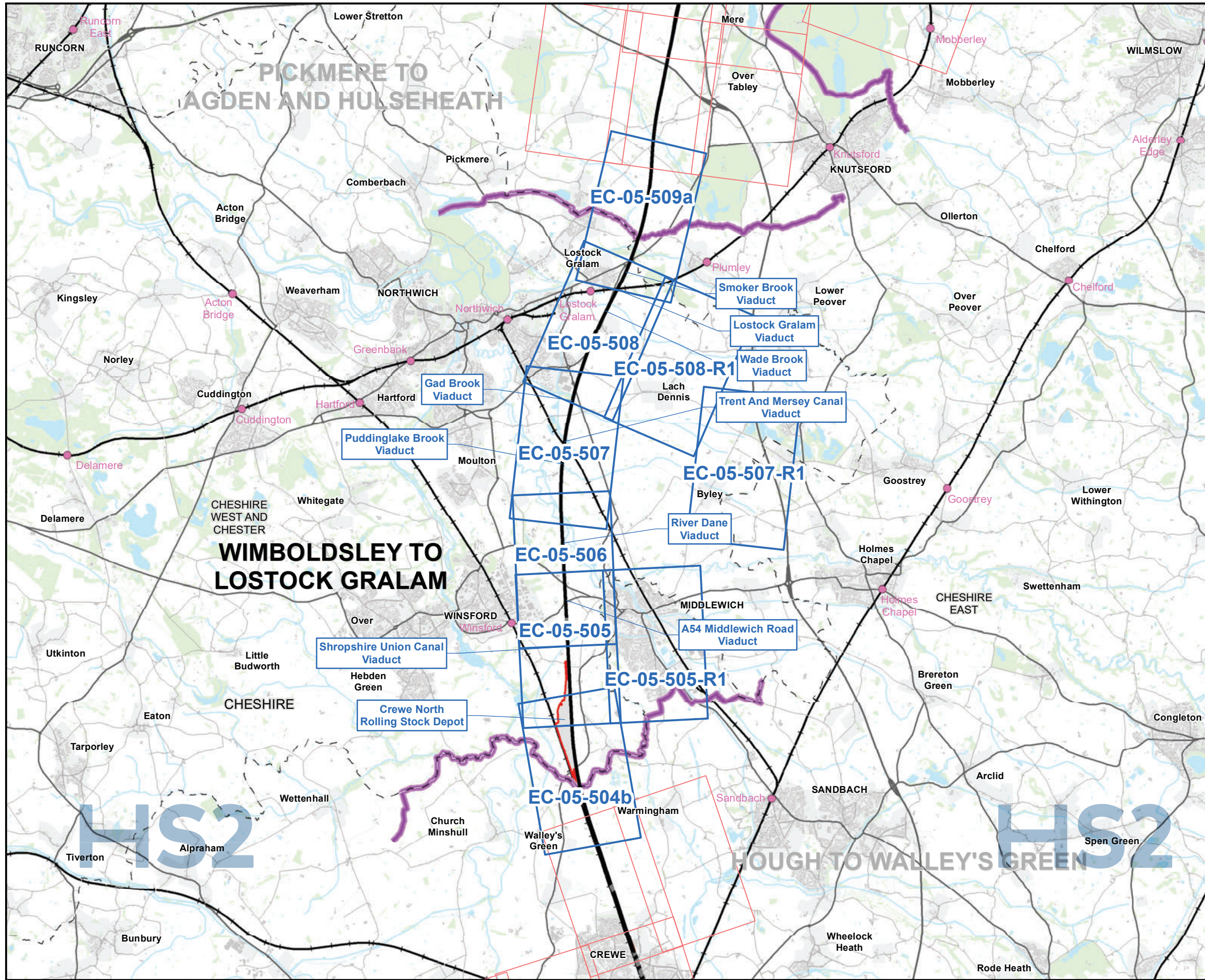
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**Map Series Information:**

This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. The maps show 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-MA02

Map Name: Index Map of:  
Bat - Roost

Community Area MA02:  
Wimboldsley to Lostock Gralam

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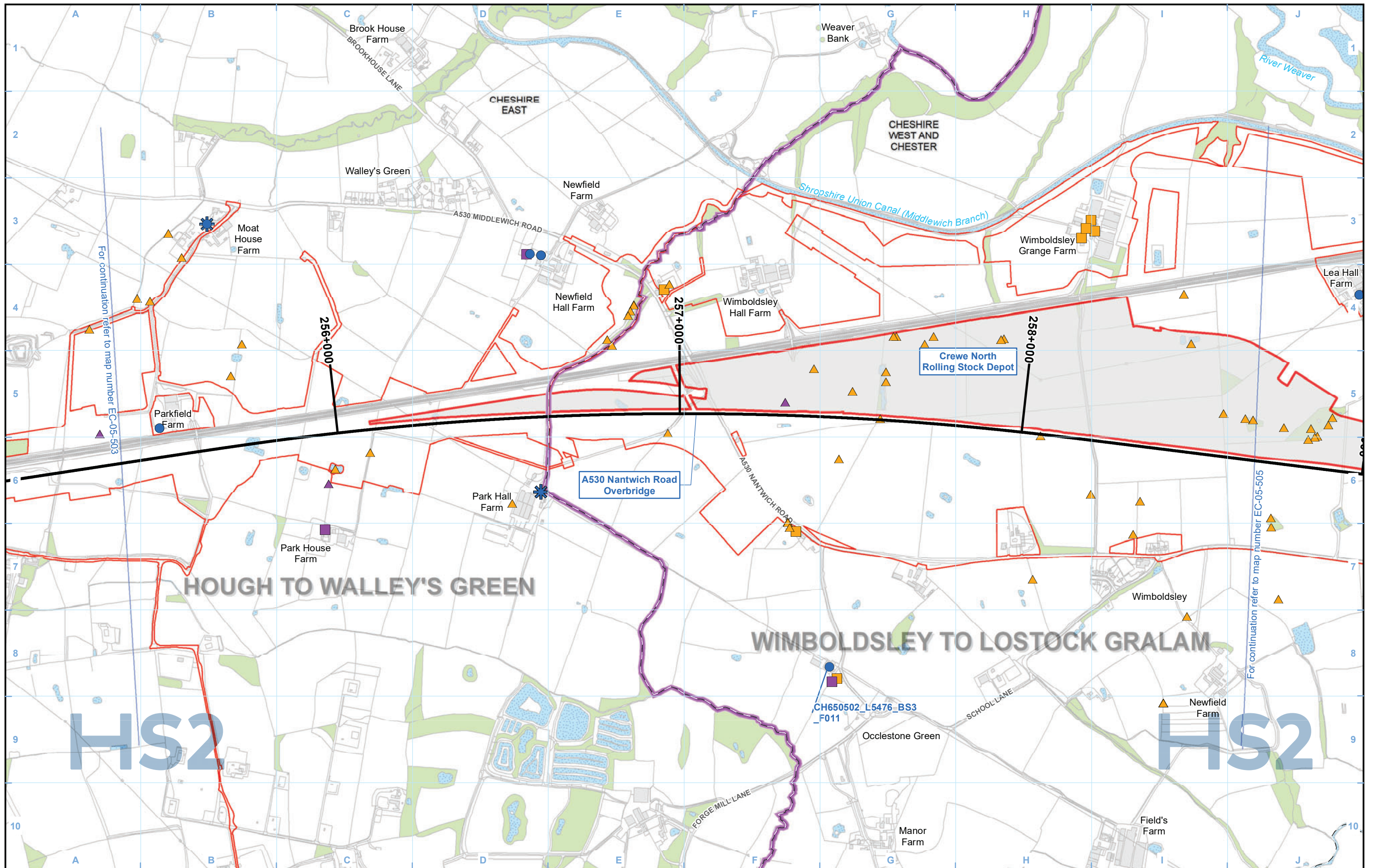
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**Legend**

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

Map Number	EC-05-504b
Map Name	Bat - Roost
Community Area MA02: Wimboldsley to Lostock Gralam	

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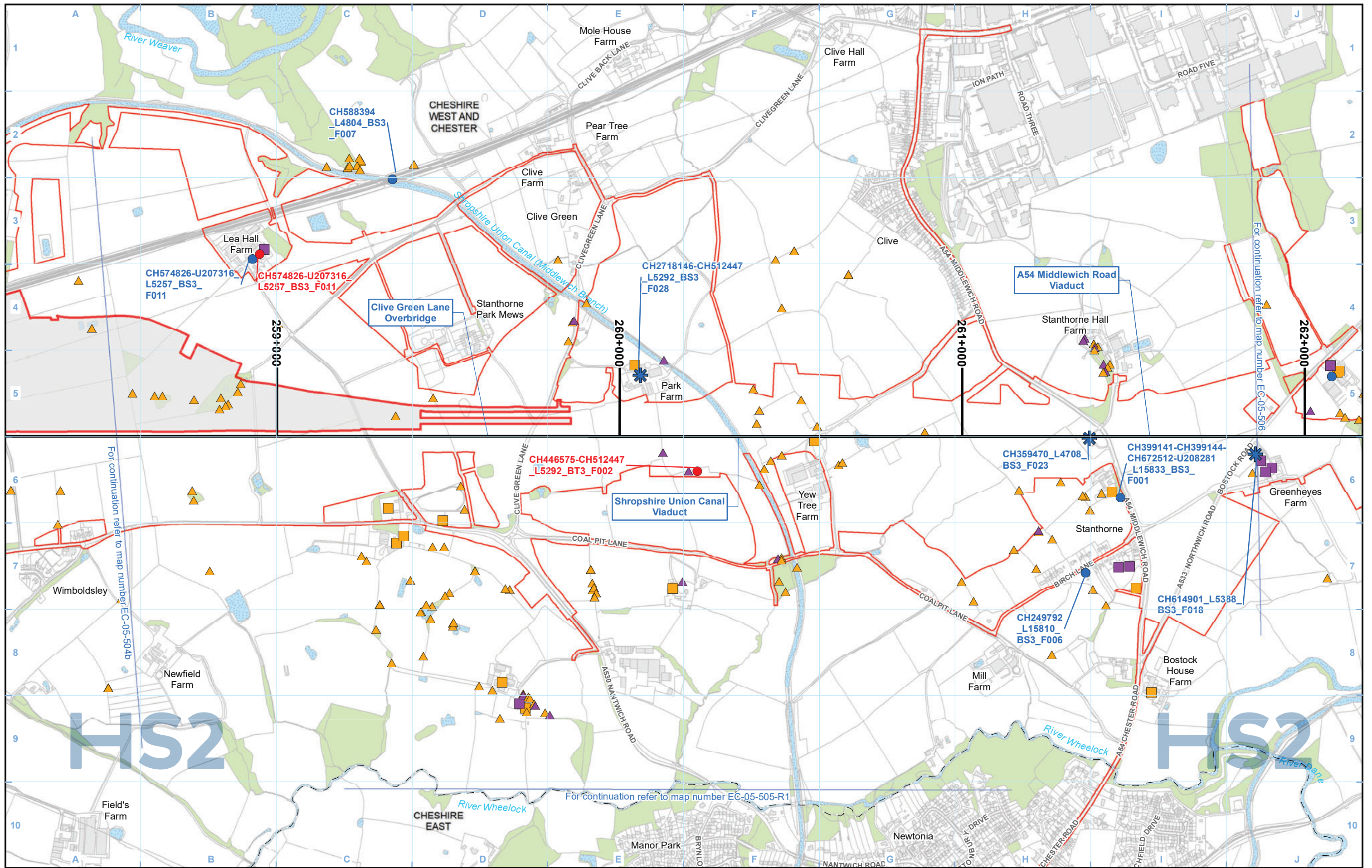
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Doc Number: 2DE01-MWJ-EV-MAP-M000-000997-P01.5

Date: 06/08/21





**Legend**


Map Number	EC-05-505
Map Name	Bat - Roost
Community Area MA02: Wimboldsley to Lostock Gralam	

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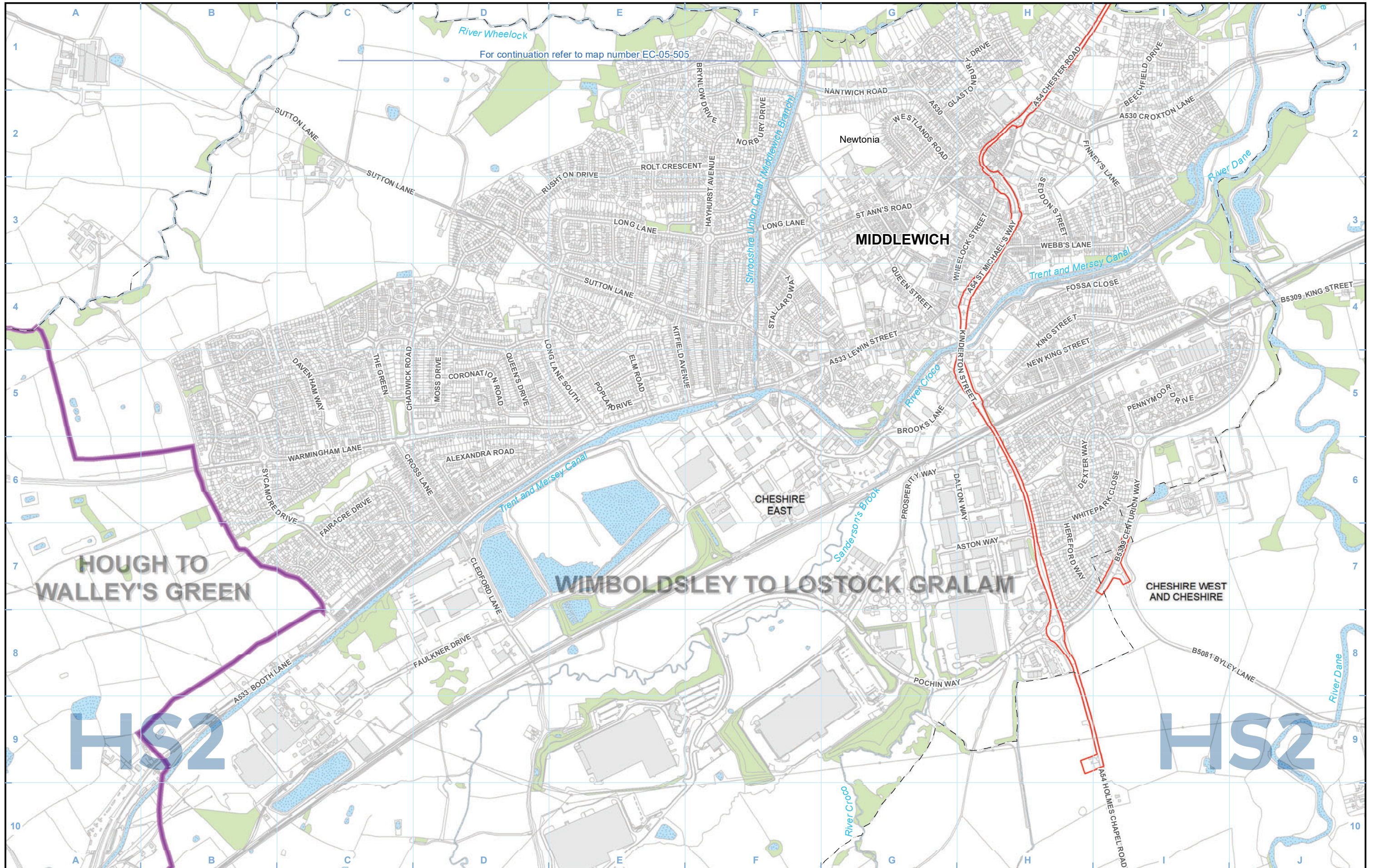
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Doc Number: 2DE01-MWJ-EV-MAP-M000-000998-P01.5

Date: 06/08/21





For continuation refer to map number EC-05-505

**Legend**

		<b>Confirmed bat roost - trees:</b>	<b>Confirmed bat roost - building:</b>	<b>Potential to support roosting bats - buildings:</b>
				<b>Potential to support roosting bats - trees:</b>

Map Number: EC-05-505-R1

Map Name: Bat - Roost

Community Area MA02:  
Wimboldsley to Lostock Gralam

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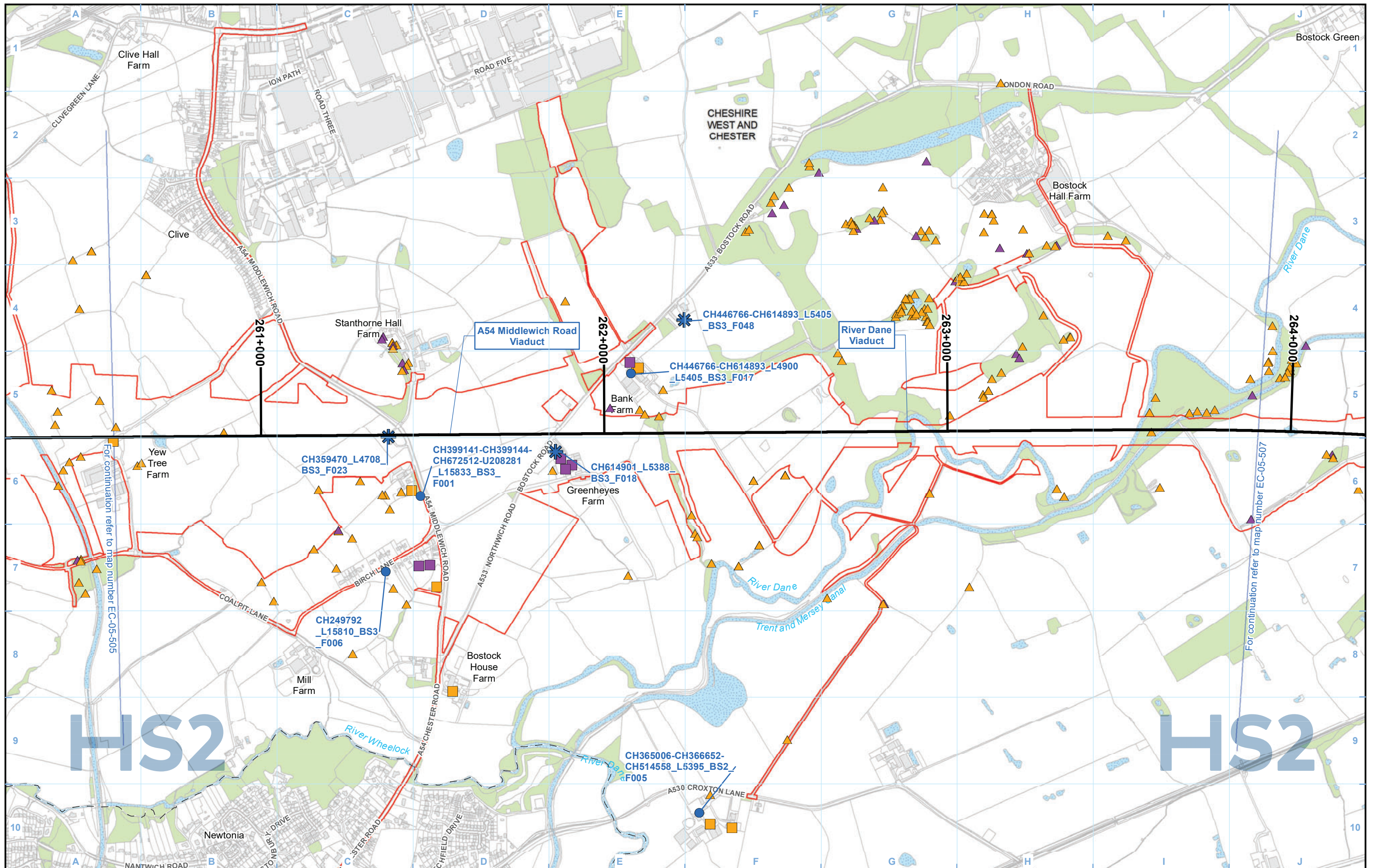
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003659-P01.5

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**Legend**


Map Number	EC-05-506
Map Name	Bat - Roost
Community Area MA02: Wimboldsley to Lostock Gralam	

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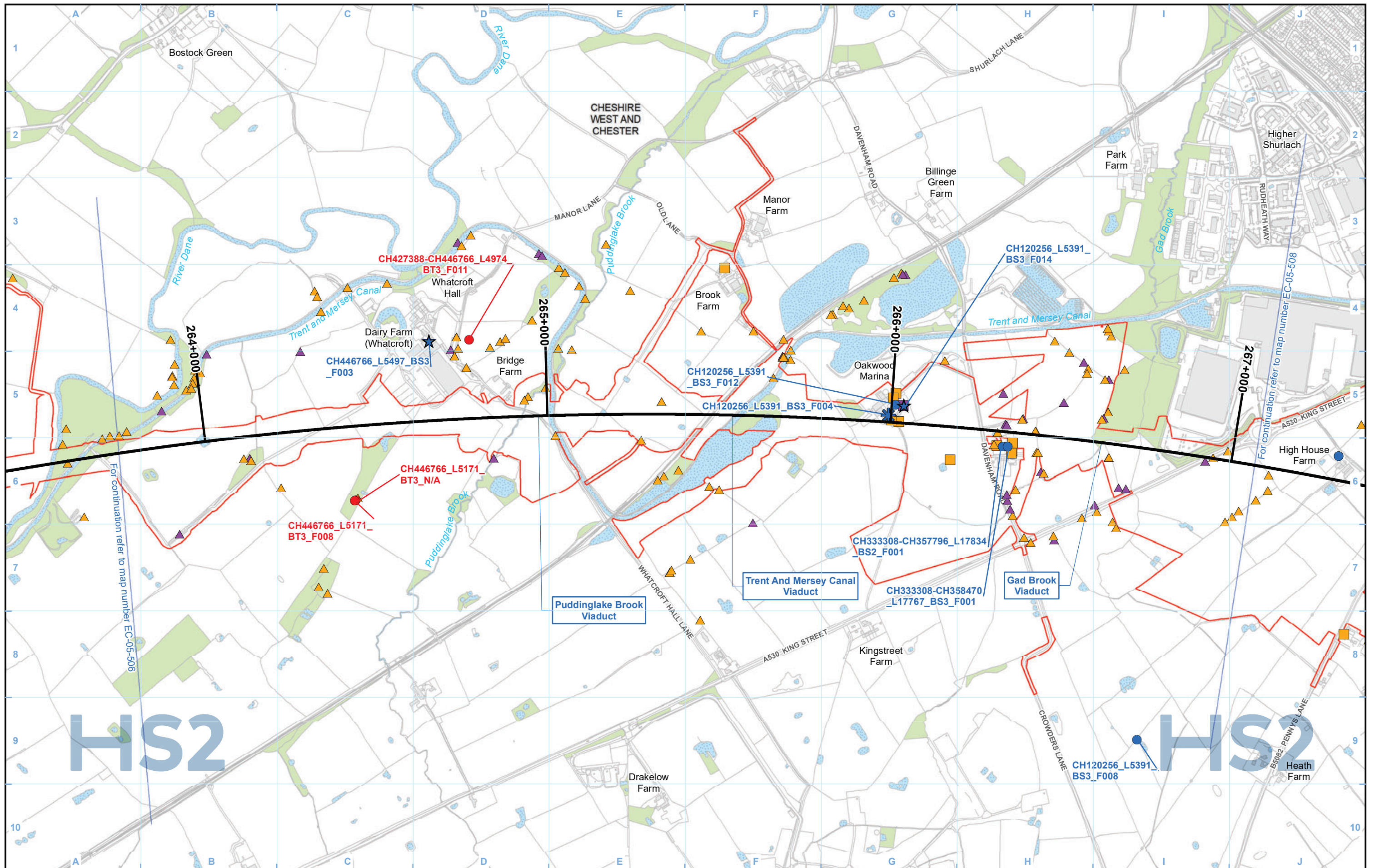
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Doc Number: 2DE01-MWJ-EV-MAP-M000-000999-P01.5

Date: 06/08/21





**Legend**

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

Map Number	EC-05-507
Map Name	Bat - Roost
Community Area MA02: Wimboldsley to Lostock Gralam	

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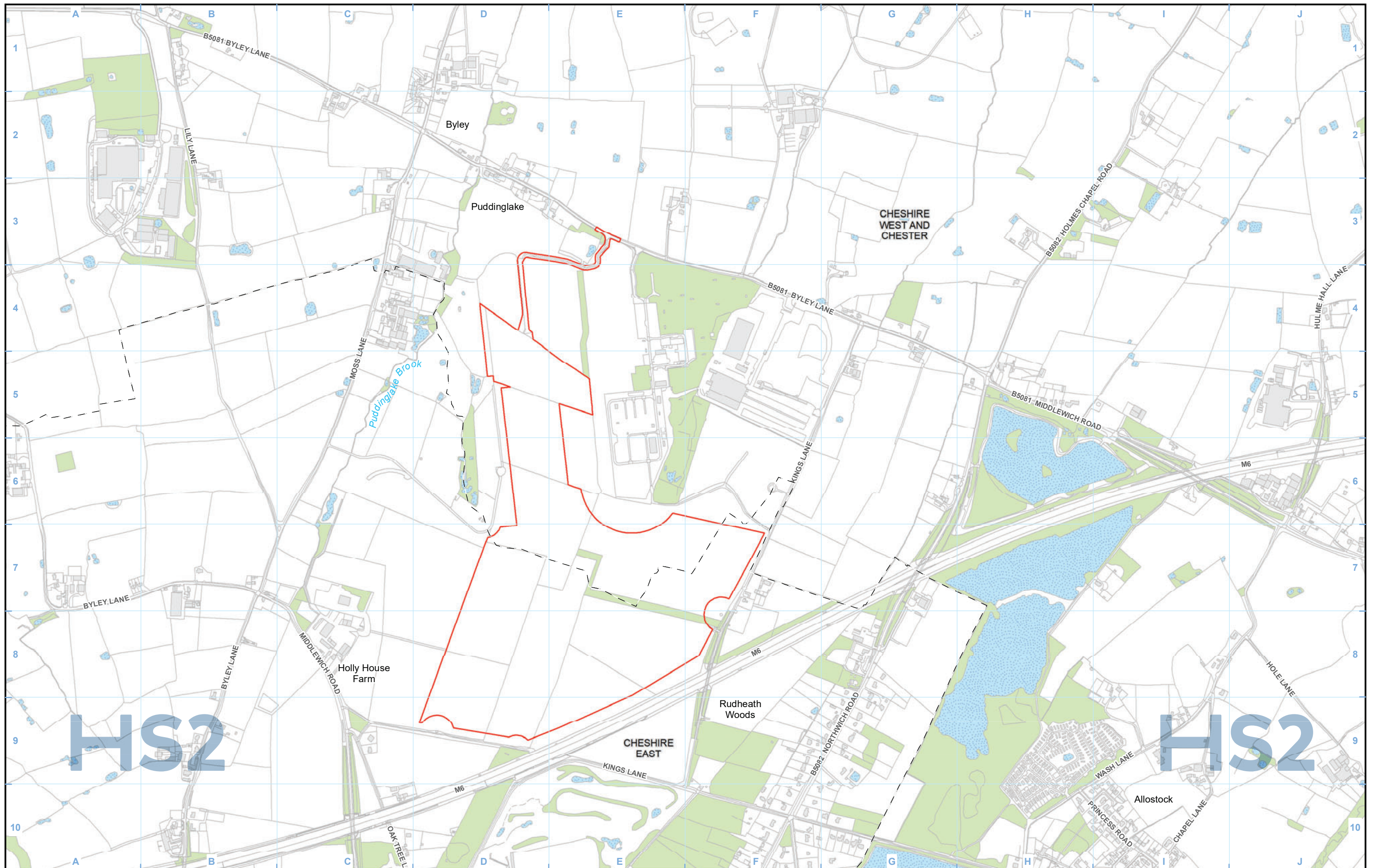
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Date: 06/08/21

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**Legend**

- |  |   |  |   |   |
|--|---|--|---|---|
| <ul style="list-style-type: none"> <li> Route in 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> |
|--|---|--|---|---|

Map Number	EC-05-507-R1
Map Name	Bat - Roost
Community Area MA02: Wimboldsley to Lostock Gralam	

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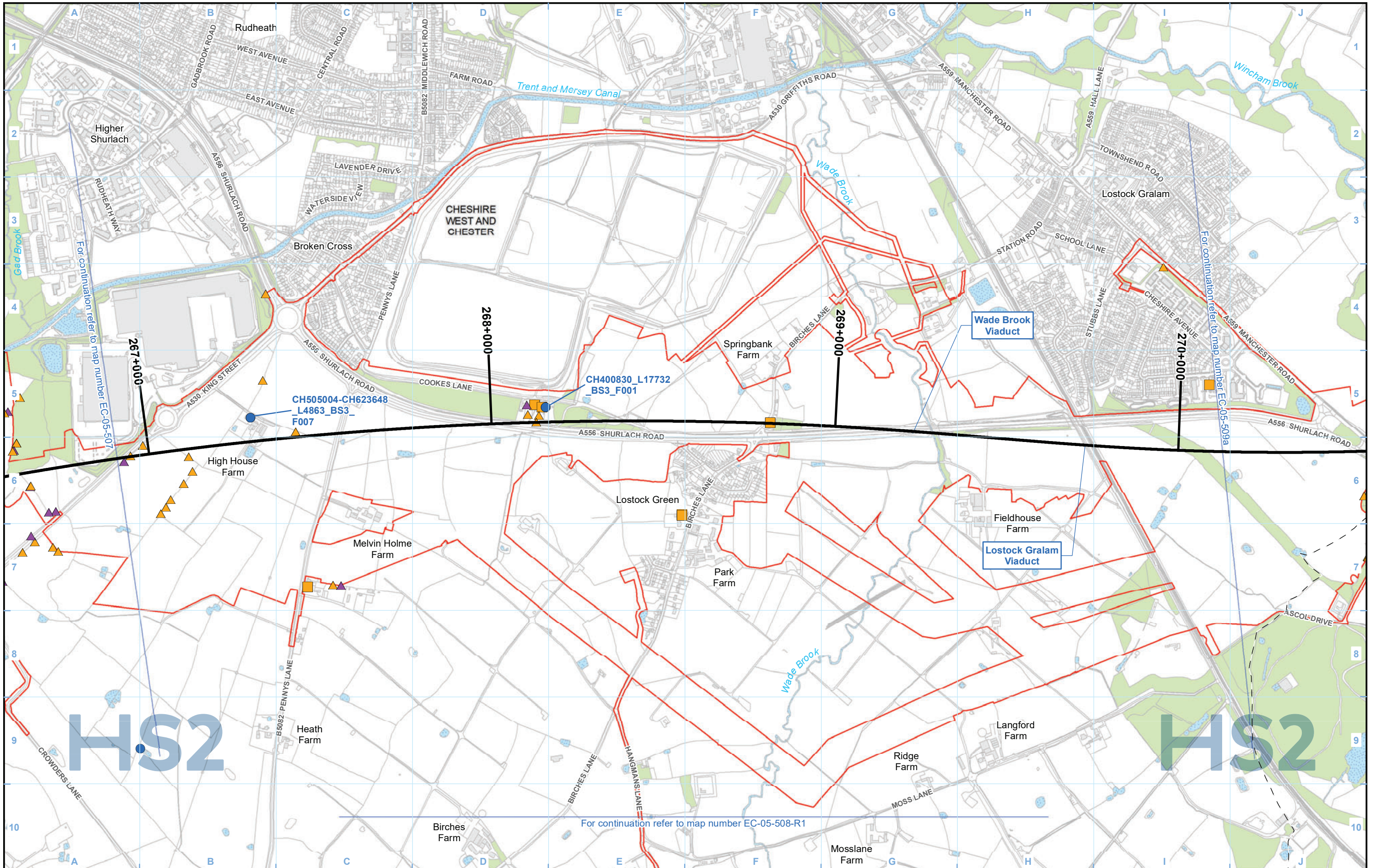
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Metres

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Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in 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-05-508
Map Name	Bat - Roost
Community Area MA02: Wimboldsley to Lostock Gralam	

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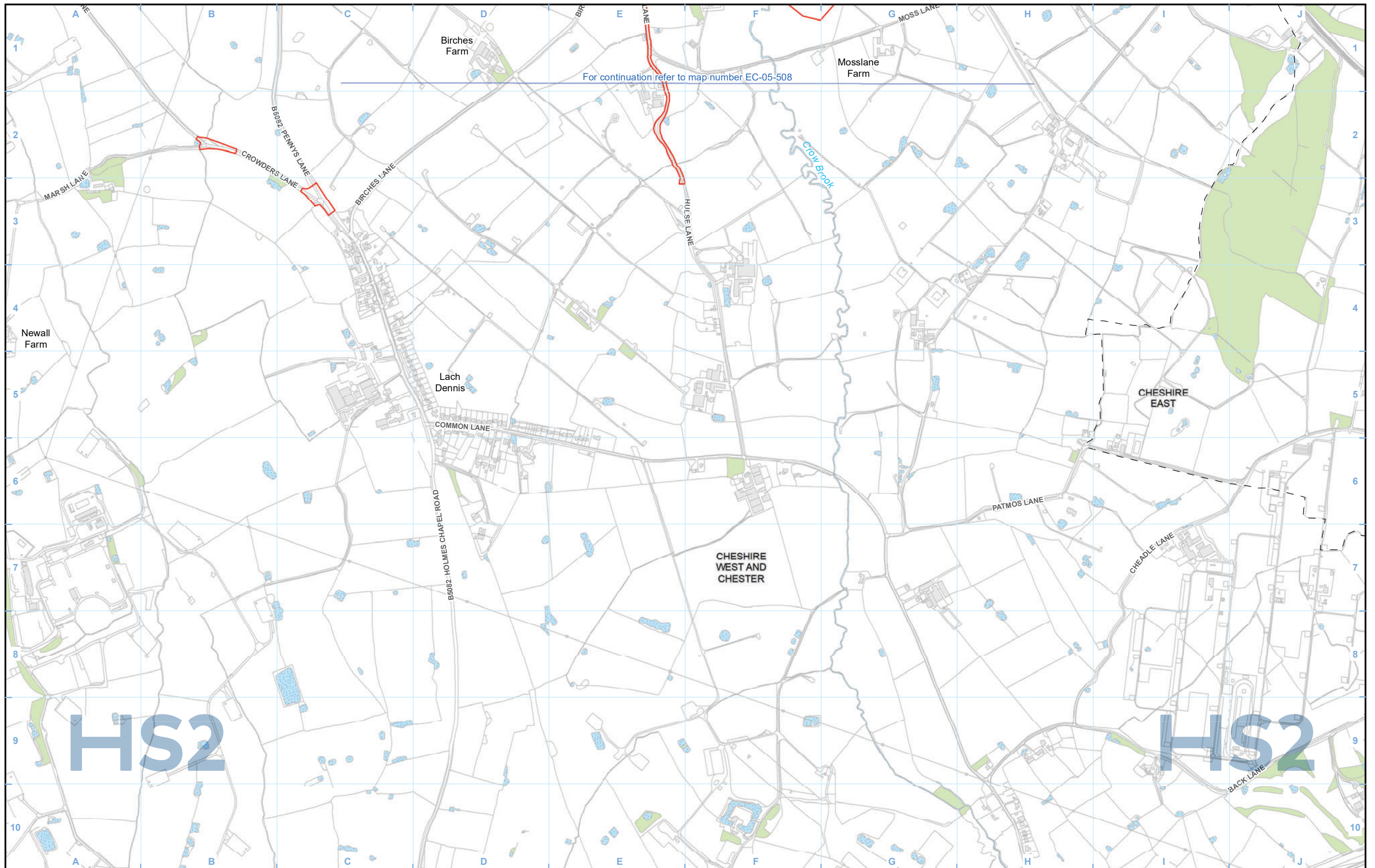
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For continuation refer to map number EC-05-508

Legend	
	Route in 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-05-508-R1
Map Name	Bat - Roost
Community Area MA02: Wimboldsley to Lostock Gralam	

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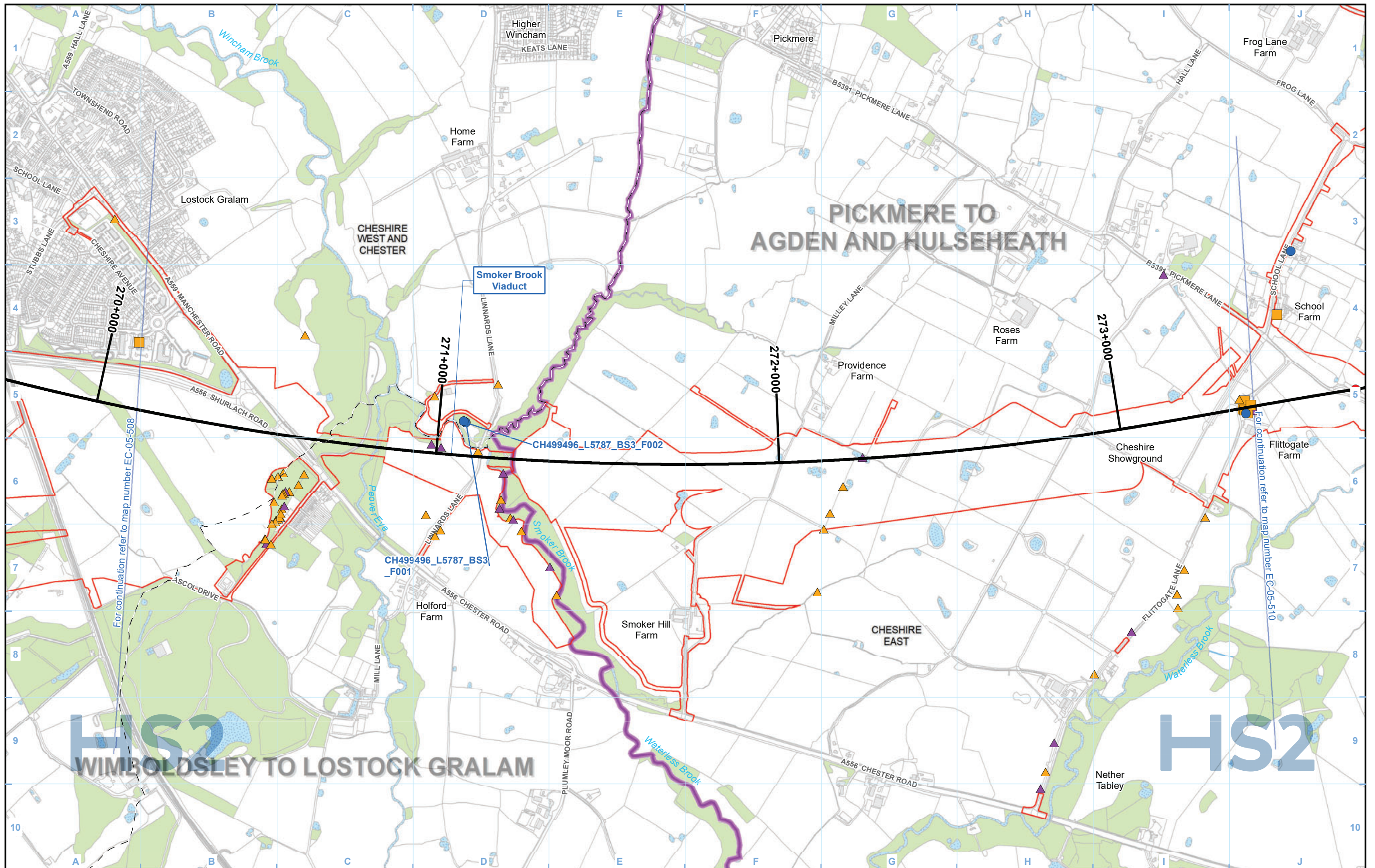
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Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in tunnel		Hibernation roost		Hibernation roost		High
	Route on surface		Maternity roost		Maternity roost		Moderate
	Depot, 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-05-509a
Map Name	Bat - Roost
Community Area MA02: Wimboldsley to Lostock Gralam	

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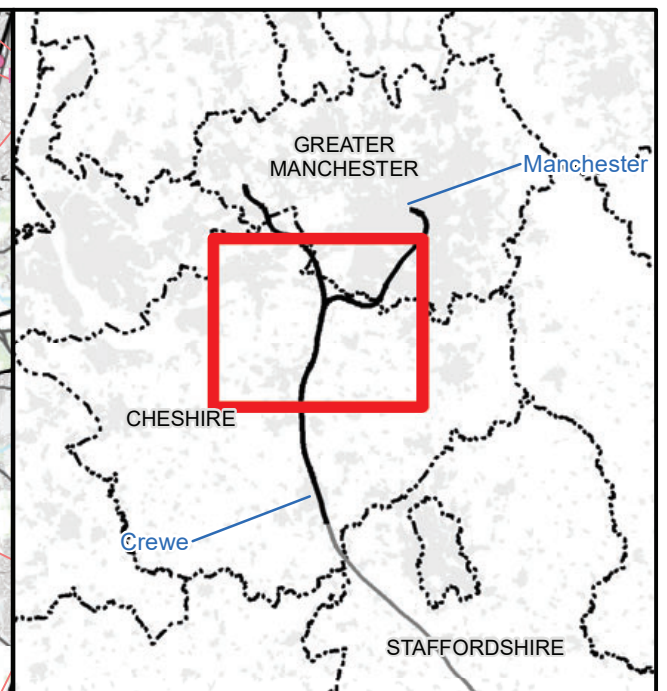
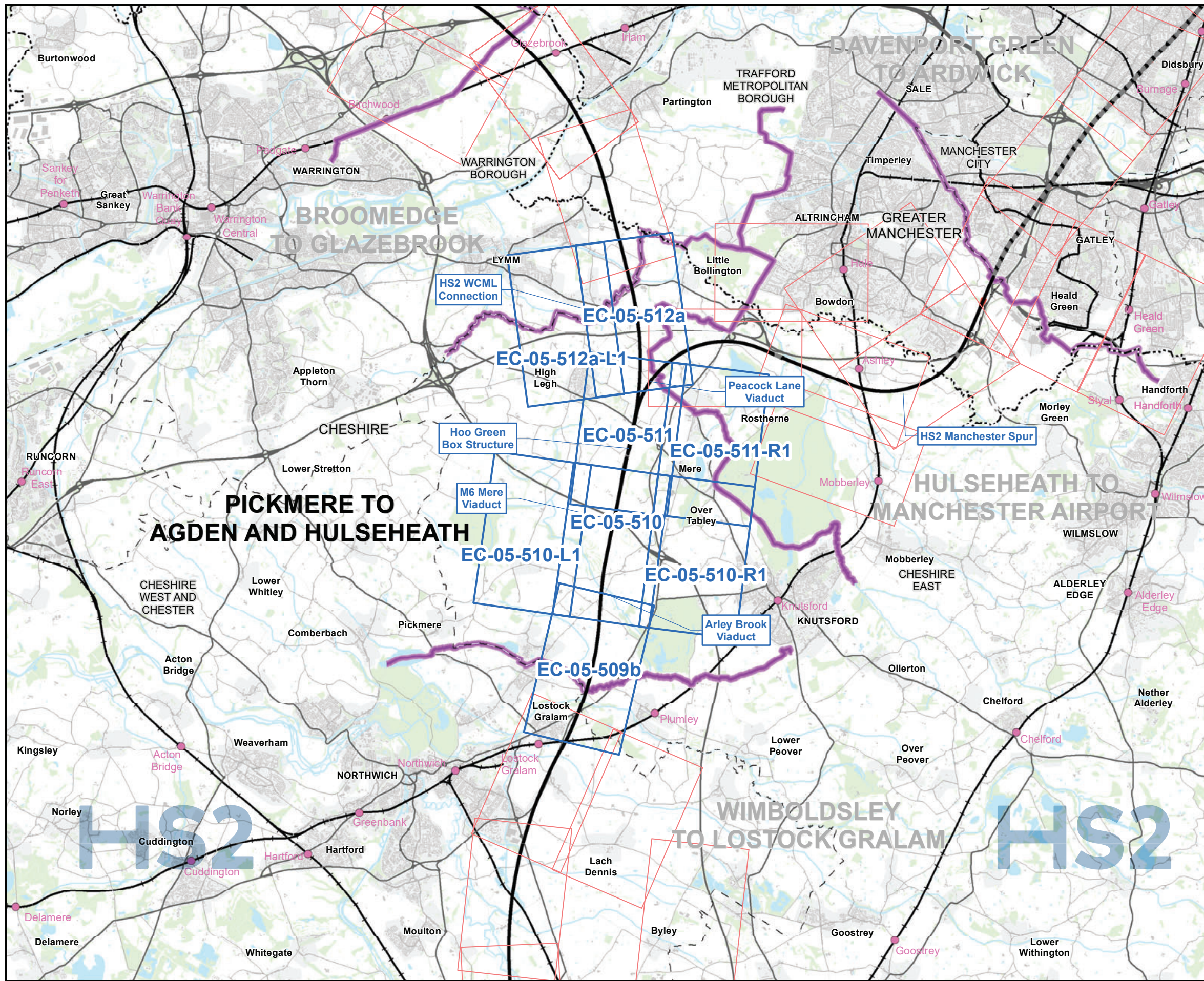
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Scale at A3: 1:10,000

Date: 06/08/21





**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. The maps show 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-MA03

Map Name: Index Map of:  
Bat - Roost

Community Area MA03:  
Pickmere to Agden and Hulseheath

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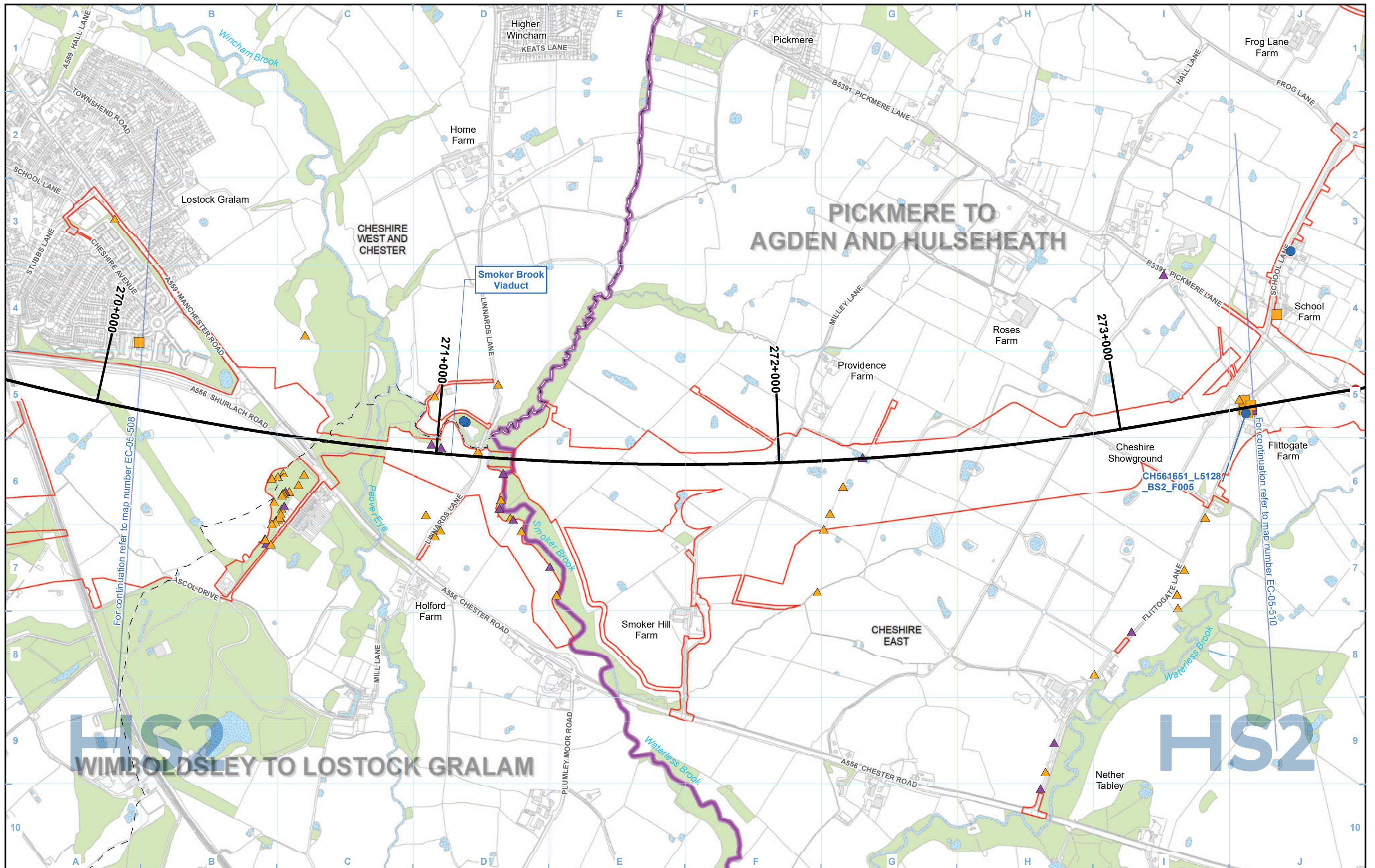
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0 1,000 2,000 3,000 4,000  
Metres

Doc Number: 2DE01-MWJ-EV-MAP-M000-001030-P01.5 Date: 06/08/21

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





# PICKMERE TO AGDEN AND HULSEHEATH

# WIMBOLDSLEY TO LOSTOCK GRALAM

Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in 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-05-509b
Map Name	Bat - Roost
Community Area MA03: Pickmere to Agden and Hulseheath	

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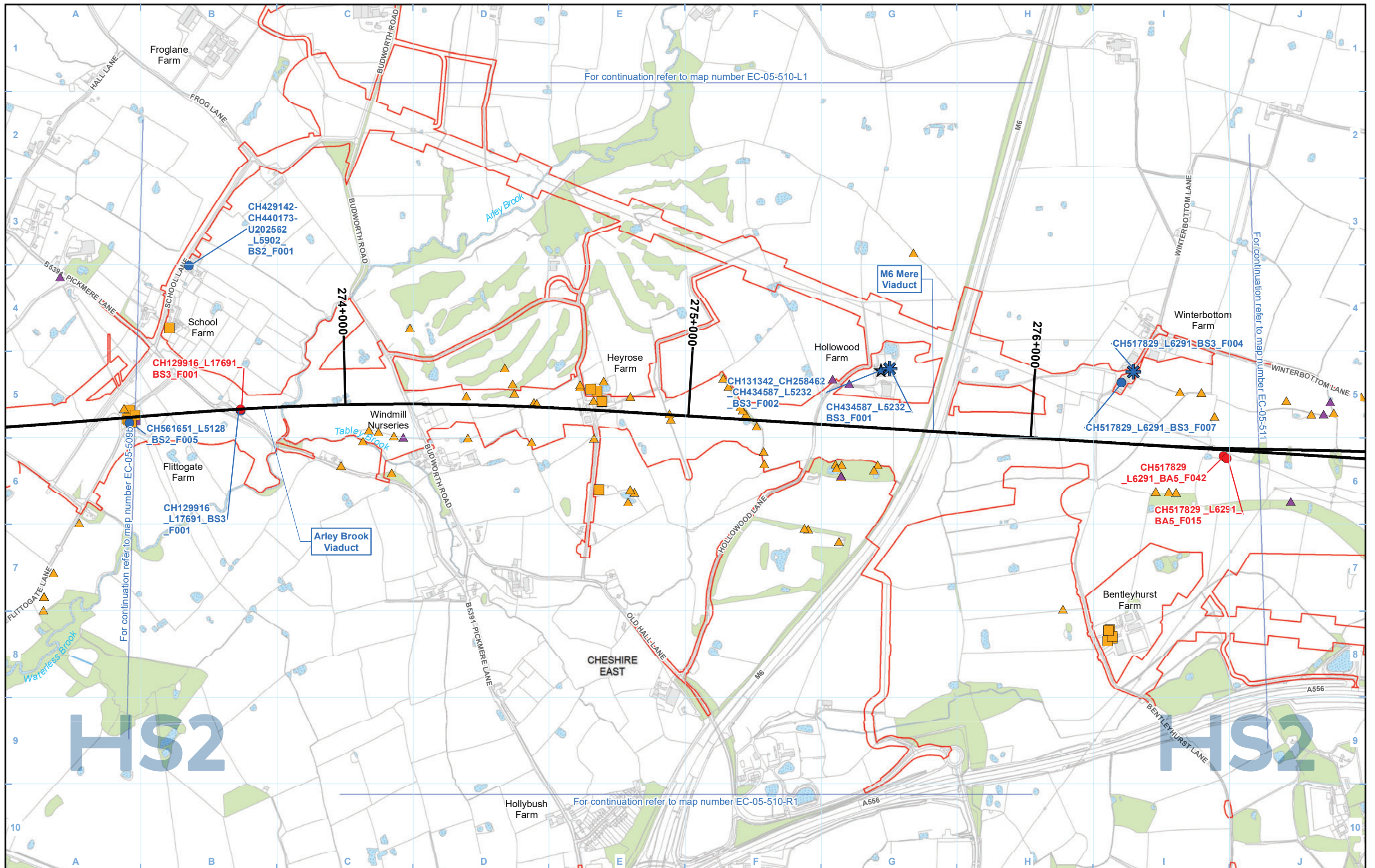
Scale at A3: 1:10,000

Metres

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Date: 06/08/21





<b>Legend</b> Route in 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	
<b>Map Number</b> EC-05-510 <b>Map Name</b> Bat - Roost <b>Community Area MA03:</b> Pickmere to Agden and Hulseheath				Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA. © Crown copyright and database rights 2020 OS 100049190 <b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-001004-P01.5 <b>Date:</b> 06/08/21		Scale at A3: 1:10,000 			





For continuation refer to map number EC-05-510

**Legend**

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|--|---|--|---|---|
| <ul style="list-style-type: none"> <li> Route in 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> |
|--|---|--|---|---|

Map Number	EC-05-510-L1
Map Name	Bat - Roost
Community Area MA03: Pickmere to Agden and Hulseheath	

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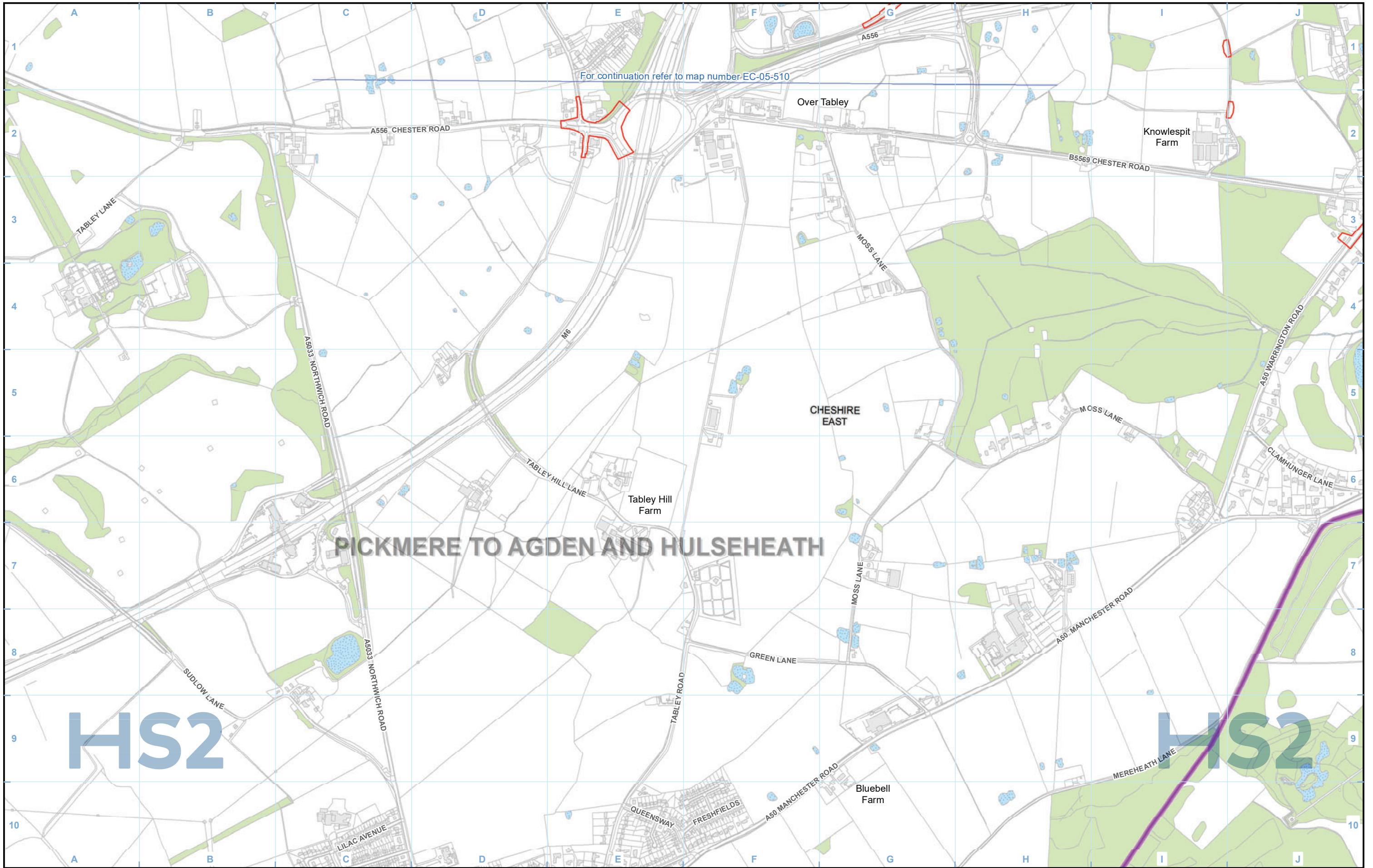
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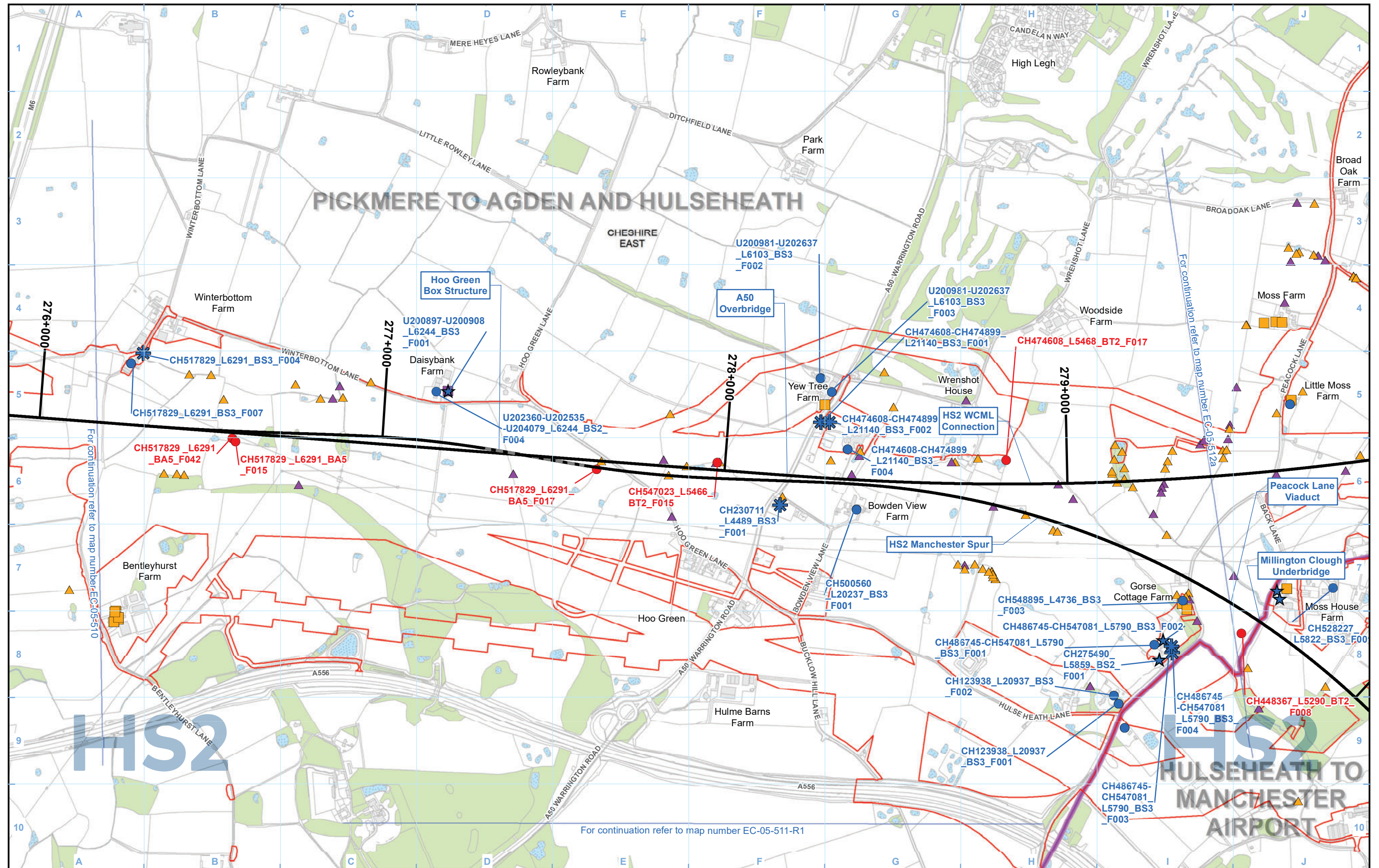
**PICKMERE TO AGDEN AND HULSEHEATH**

**HS2**

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<b>Legend</b> <ul style="list-style-type: none"> <li> Route in 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>		<b>Confirmed bat roost - trees:</b> <ul style="list-style-type: none"> <li> Hibernation roost</li> <li> Maternity roost</li> <li> Other roost</li> <li> Multiple roost types</li> </ul>		<b>Confirmed bat roost - building:</b> <ul style="list-style-type: none"> <li> Hibernation roost</li> <li> Maternity roost</li> <li> Other roost</li> <li> Multiple roost types</li> </ul>		<b>Potential to support roosting bats - buildings:</b> <ul style="list-style-type: none"> <li> High</li> <li> Moderate</li> </ul> <b>Potential to support roosting bats - trees:</b> <ul style="list-style-type: none"> <li> High</li> <li> Moderate</li> </ul>	
<b>Map Number</b> EC-05-510-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 - Roost		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>		<b>Scale at A3: 1:10,000</b>					
<b>Community Area MA03:</b> Pickmere to Agden and Hulseheath		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003661-P01.5</small>		<b>Date: 12/08/21</b>			





**Legend**

- |  |   |  |   |   |
|--|---|--|---|---|
| <ul style="list-style-type: none"> <li> Route in 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> |
|--|---|--|---|---|

Map Number	EC-05-511
Map Name	Bat - Roost
Community Area MA03: Pickmere to Agden and Hulseheath	

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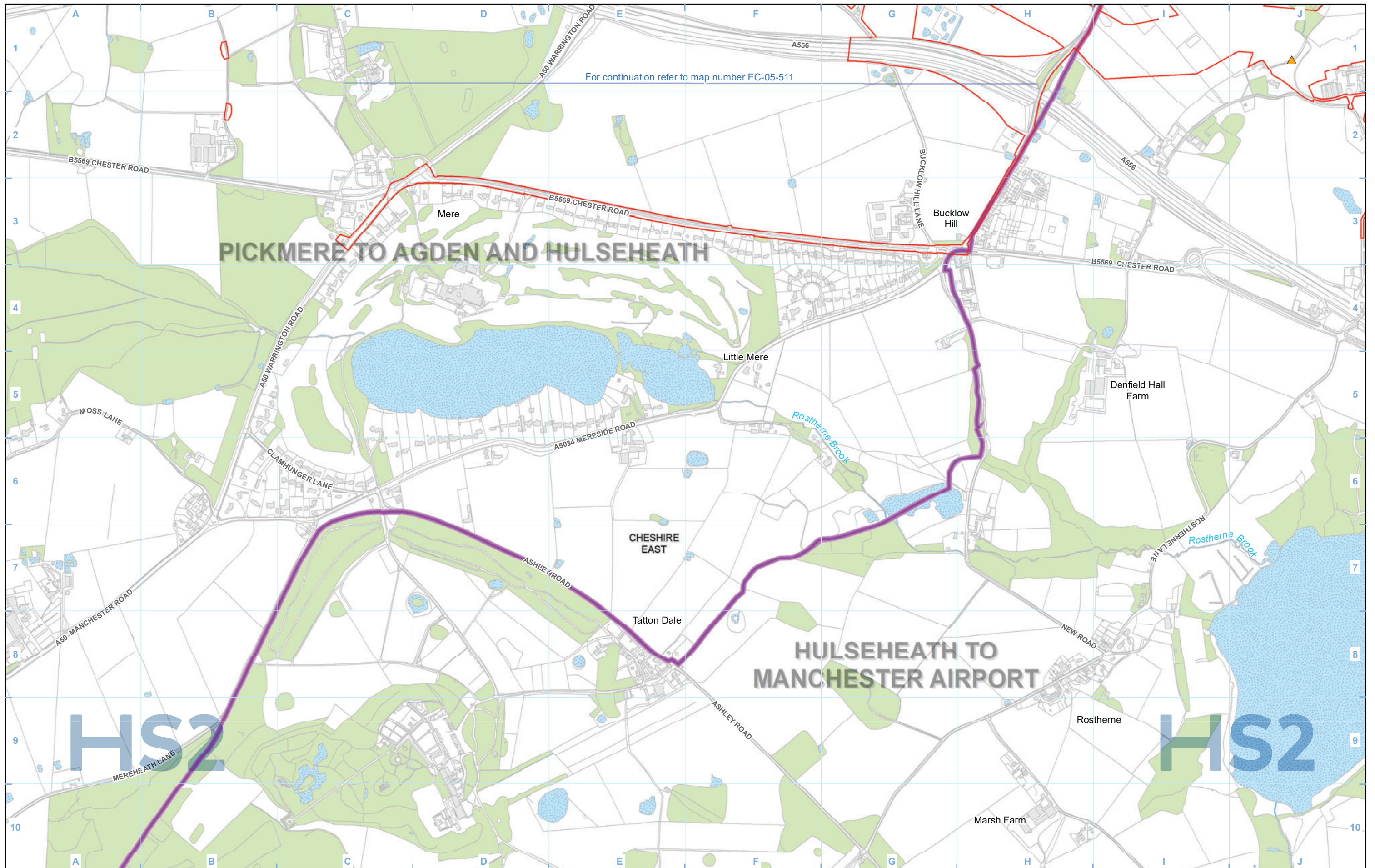
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Date: 06/08/21





For continuation refer to map number EC-05-511

**PICKMERE TO AGDEN AND HULSEHEATH**

**HULSEHEATH TO MANCHESTER AIRPORT**

**Legend**

- Route in 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-05-511-R1

Map Name: Bat - Roost

Community Area MA03:  
Pickmere to Agden and Hulseheath

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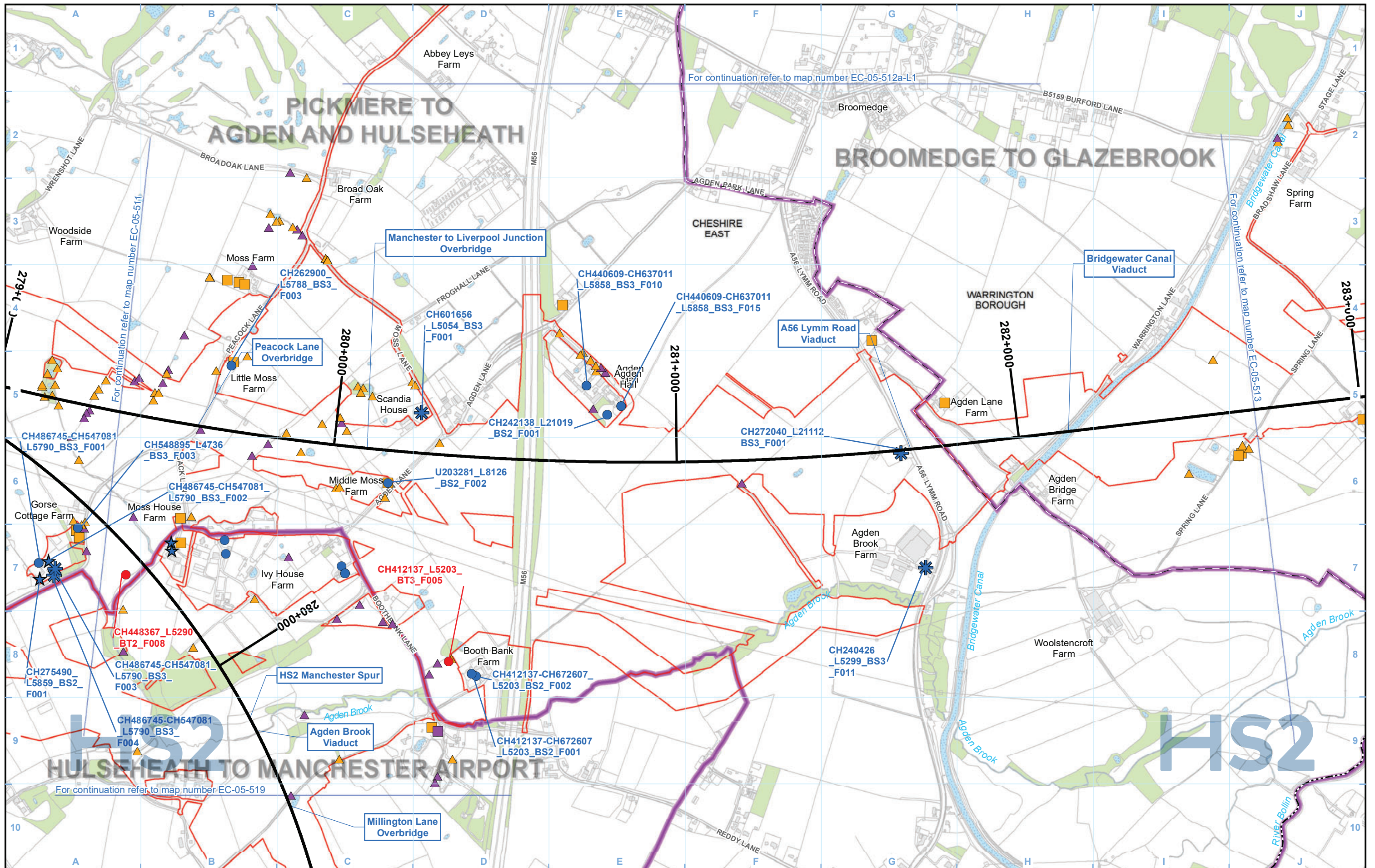
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003662-P01.5

Date: 06/08/21





**Legend**

- Route in 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-05-512a

Map Name: Bat - Roost

Community Area MA03:  
Pickmere to Agden and Hulseheath

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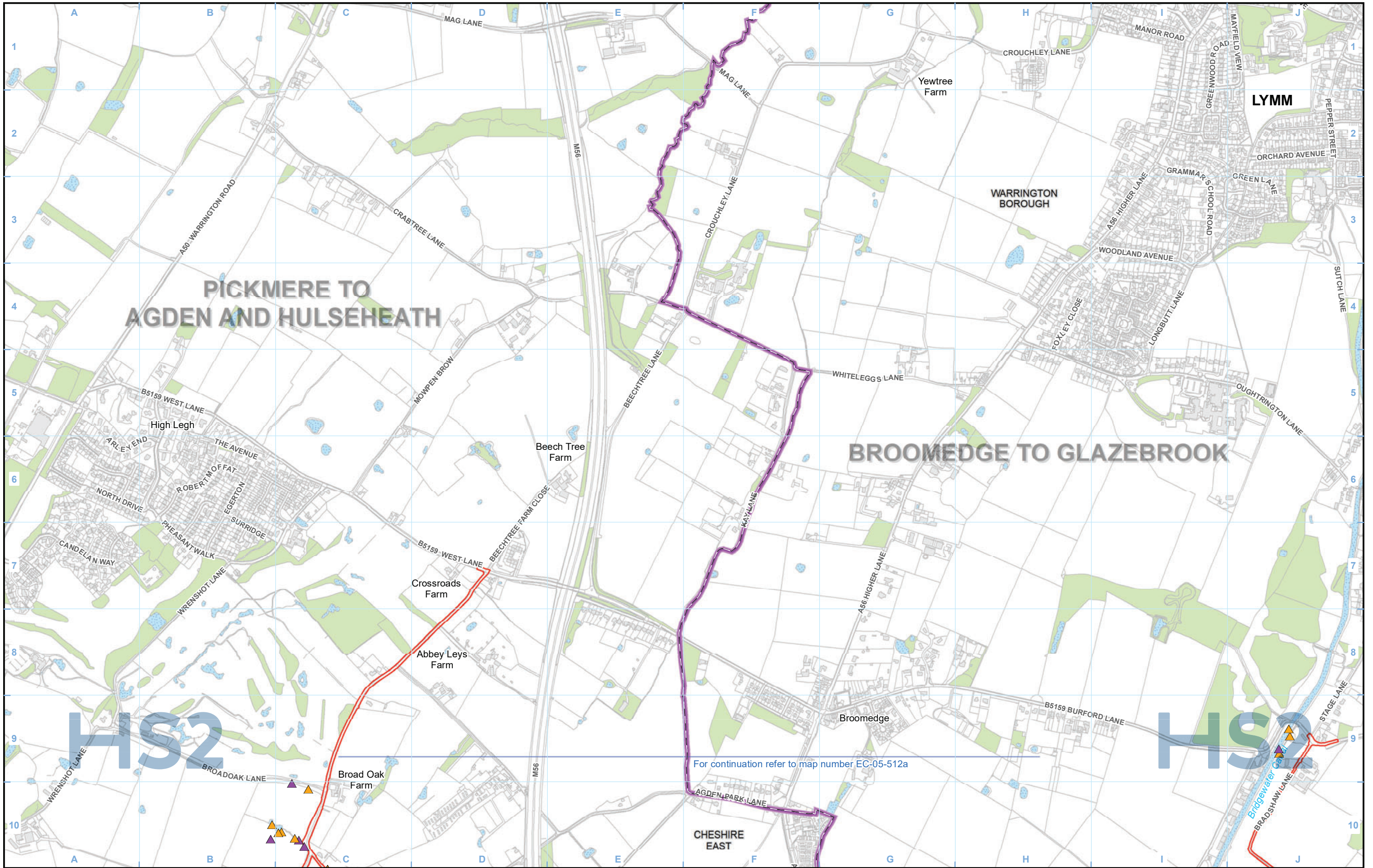
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Date: 06/08/21

Scale at A3: 1:10,000

0 100 200 300 400 Metres





# PICKMERE TO AGDEN AND HULSEHEATH

# BROOMEDGE TO GLAZEBROOK



For continuation refer to map number EC-05-512a

Legend	
	Route in 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-05-512a-L1
Map Name	Bat - Roost
Community Area MA03: Pickmere to Agden and Hulseheath	

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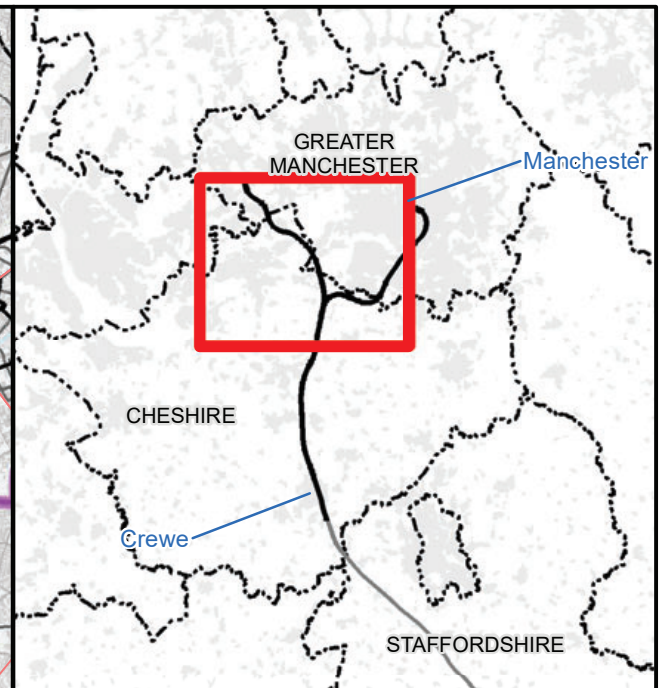
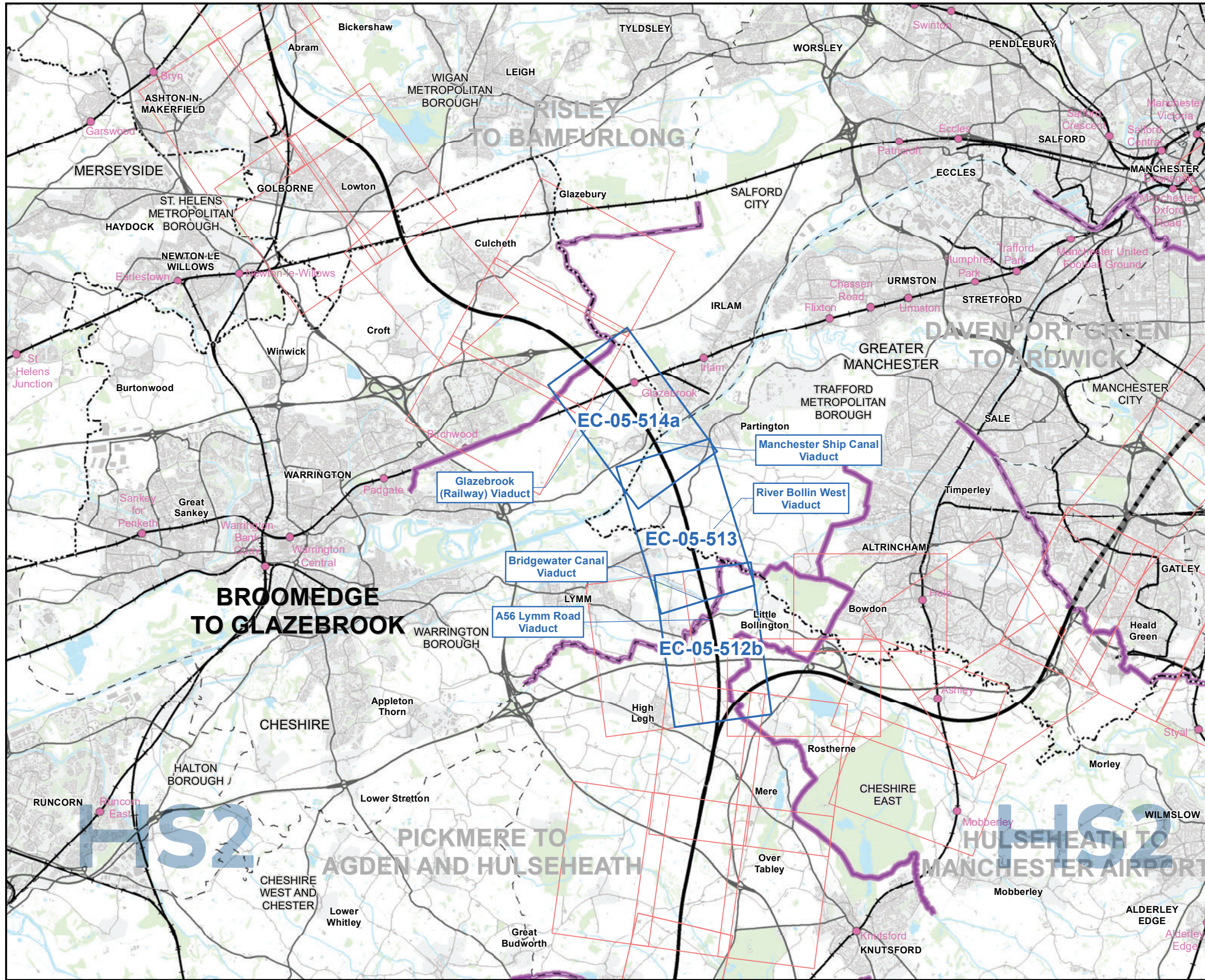
Metres

Date: 06/08/21



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**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. The maps show 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		
	Community area boundary		
	Existing railway station		
	County boundary		
	District/Borough boundary		

Map Number	EC-05-INDEX-MA04
Map Name	Index Map of: Bat - Roost
	Community Area MA04: Broomedge to Glazebrook

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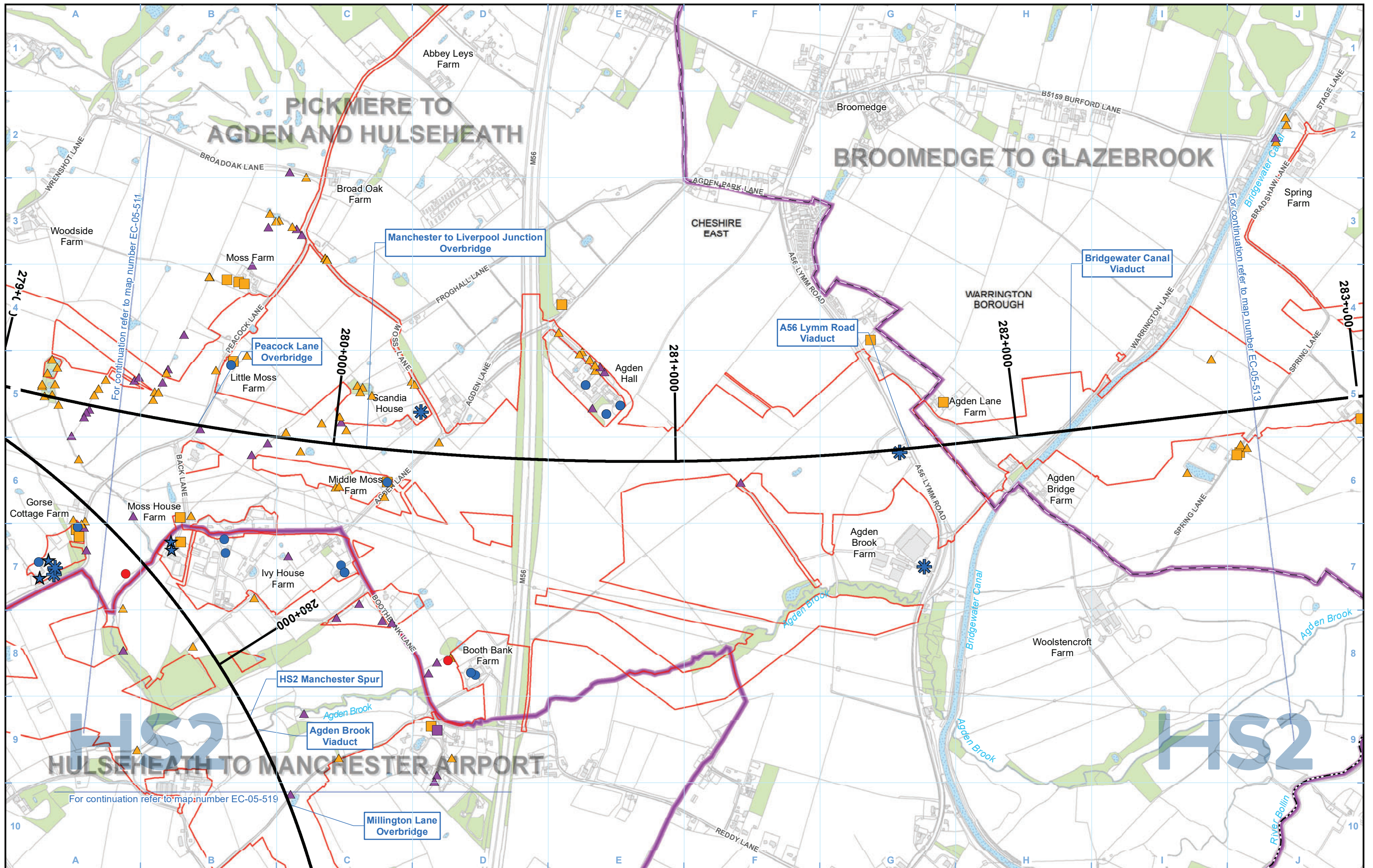
Doc Number: 2DE01-MWJ-EV-MAP-M000-001031-P01.5

Date: 06/08/21

Scale at A3: 1:100,000

1,000 2,000 3,000 4,000 Metres





**Legend**

- Route in 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-05-512b

Map Name: Bat - Roost

Community Area MA04:  
Broomedge to Glazebrook

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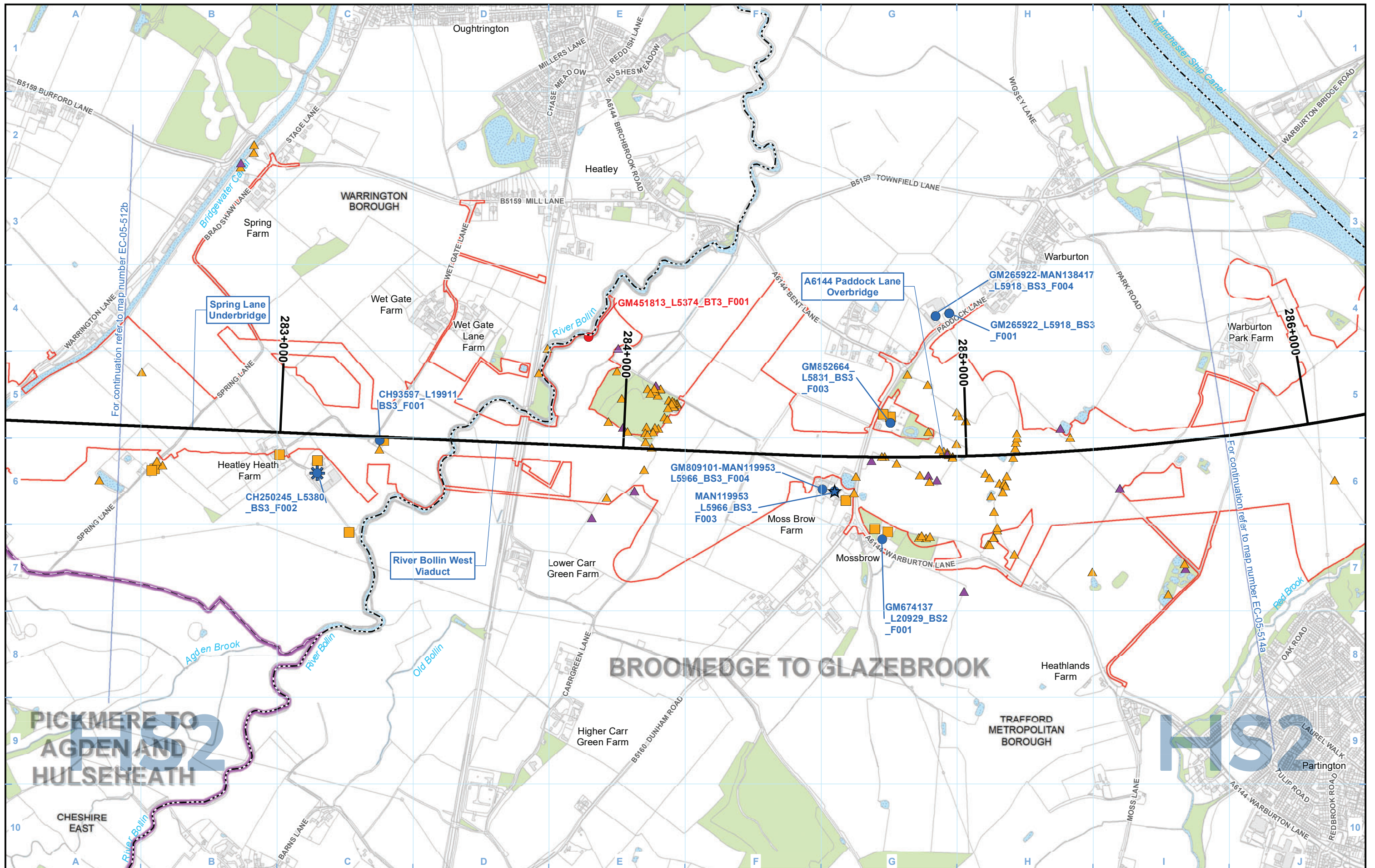
Doc Number: 2DE01-MWJ-EV-MAP-M000-001007-P01.5

Date: 06/08/21

Scale at A3: 1:10,000

0 100 200 300 400 Metres





**Legend**

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

Map Number: EC-05-513

Map Name: Bat - Roost

Community Area MA04:  
Broomedge to Glazebrook

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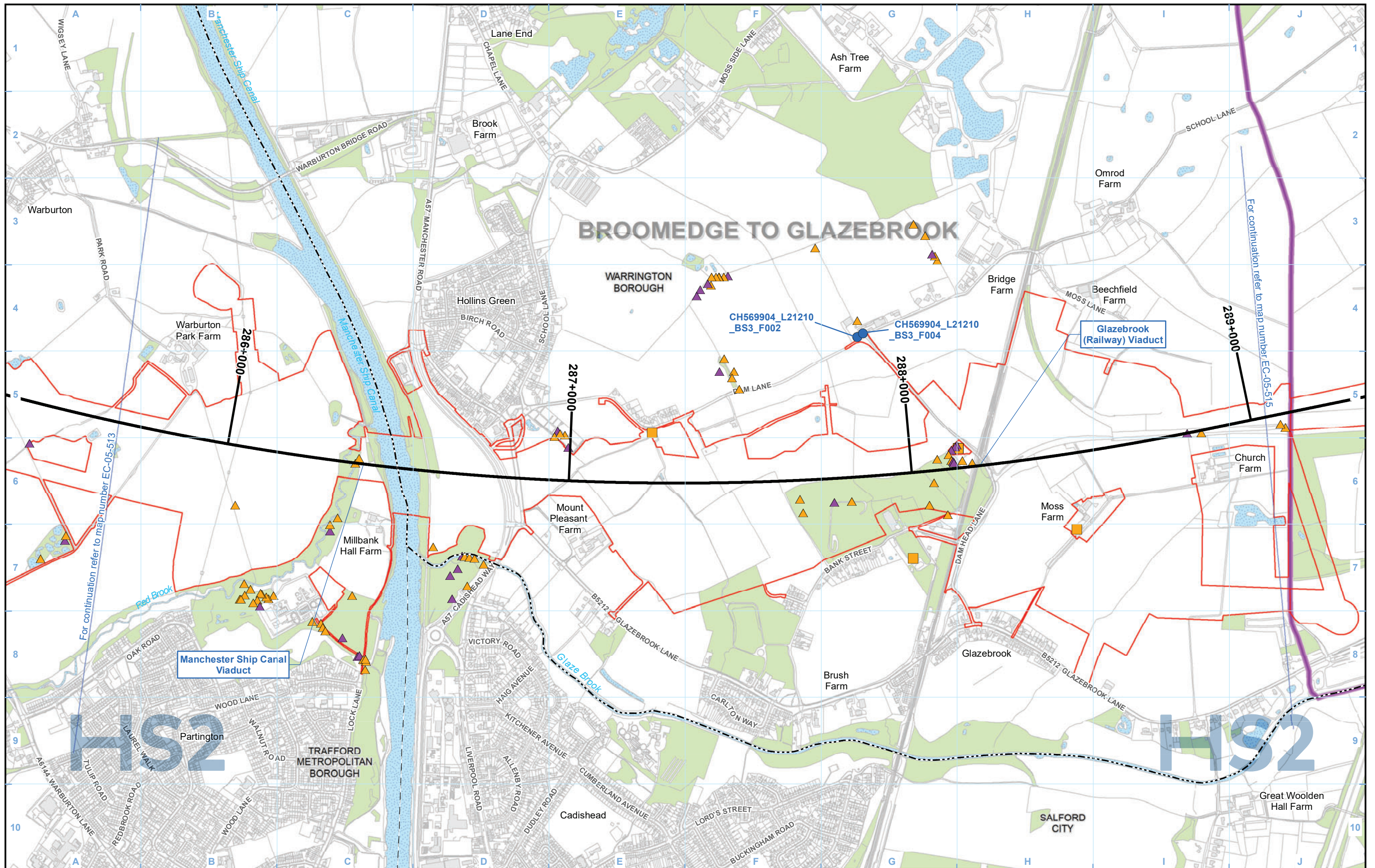
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Date: 06/08/21





Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in 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-05-514a
Map Name	Bat - Roost
Community Area MA04: Broomedge to Glazebrook	

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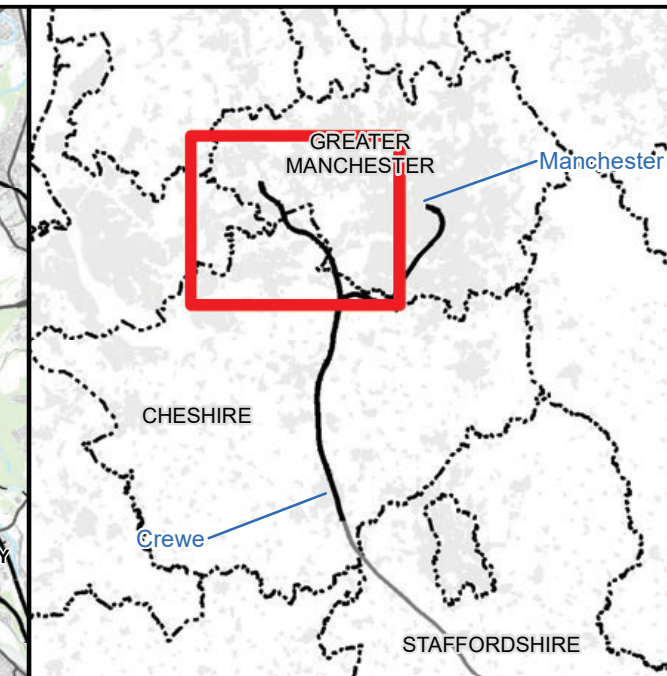
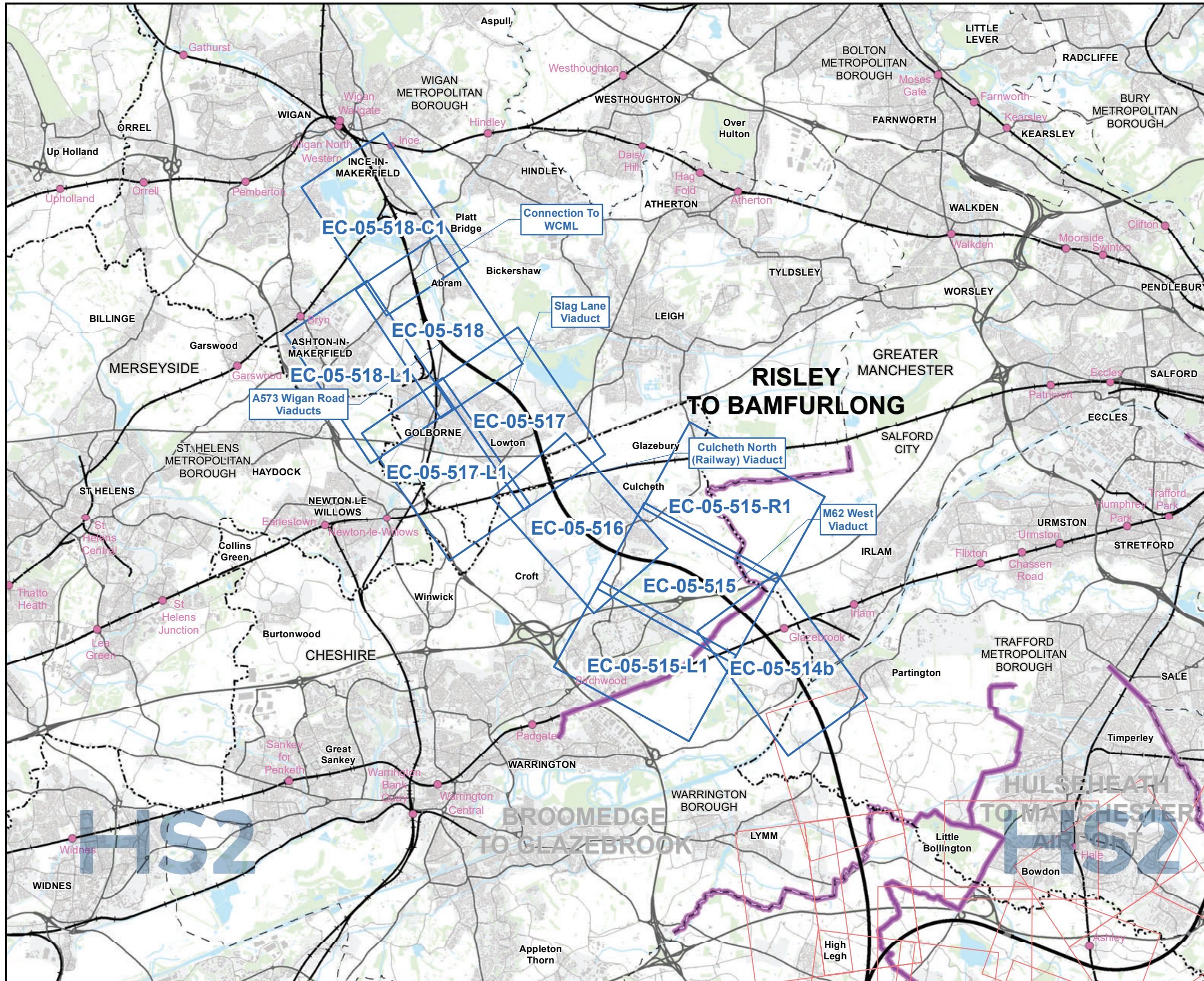
Scale at A3: 1:10,000

Metres

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**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. The maps show 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-MA05
Map Name	Index Map of: Bat - Roost
	Community Area MA05: Risley to Bamfurlong

**HS2**

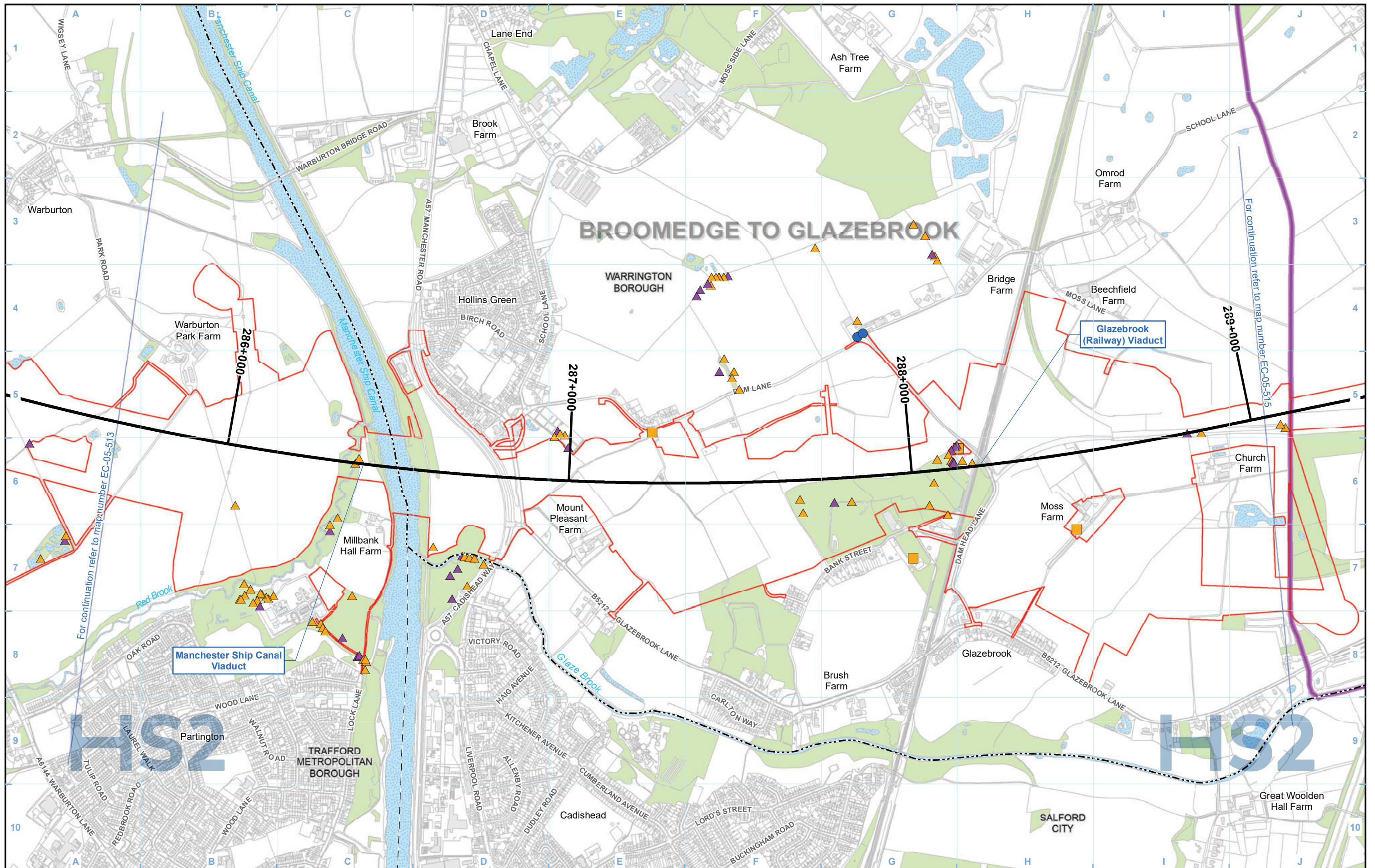
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Note: Not all data layers in the legend are represented on every map.





**Legend**

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

Map Number: EC-05-514b

Map Name: Bat - Roost

Community Area MA05: Risley to Bamfurlong

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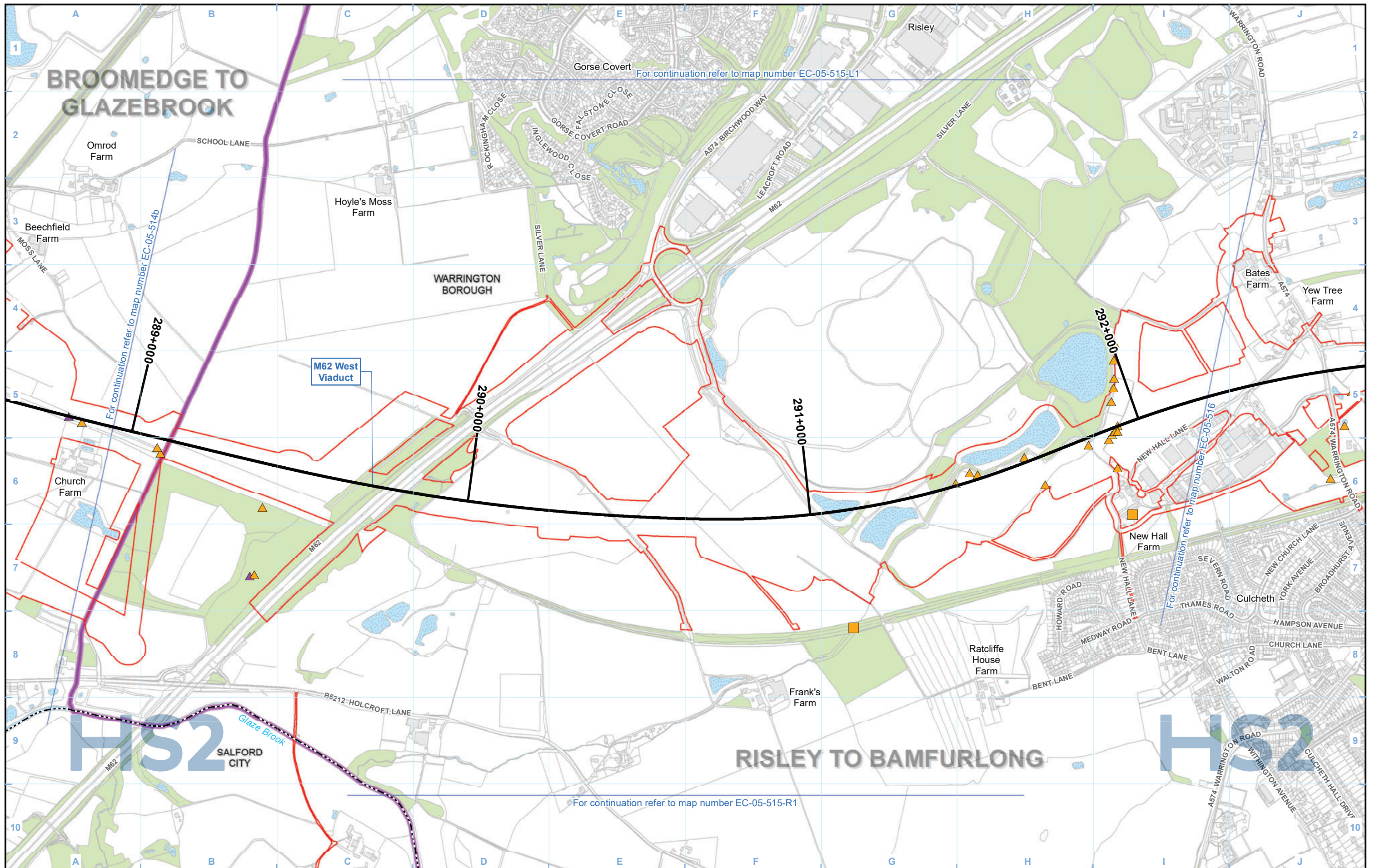
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Date: 06/08/21

Scale at A3: 1:10,000

0 100 200 300 400 Metres





# BROOMEDGE TO GLAZEBROOK

# RISLEY TO BAMFURLONG

**Legend**

- Route in 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-05-515

Map Name: Bat - Roost

Community Area MA05: Risley to Bamfurlong

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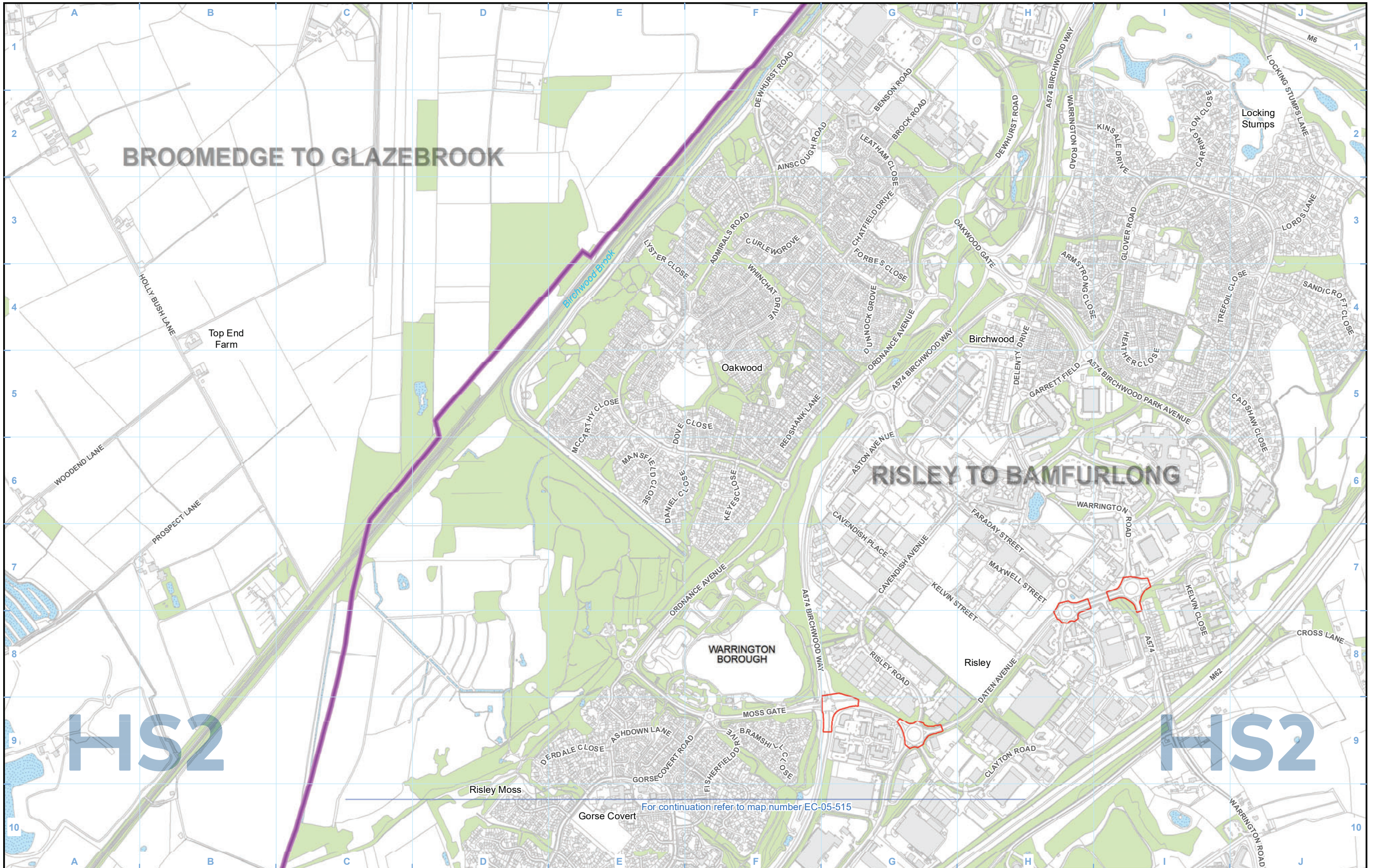
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Date: 06/08/21



# BROOMEDGE TO GLAZEBROOK

# RISLEY TO BAMFURLONG



**Legend**

- Route in 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-05-515-L1

Map Name: Bat - Roost

Community Area MA05: Risley to Bamfurlong

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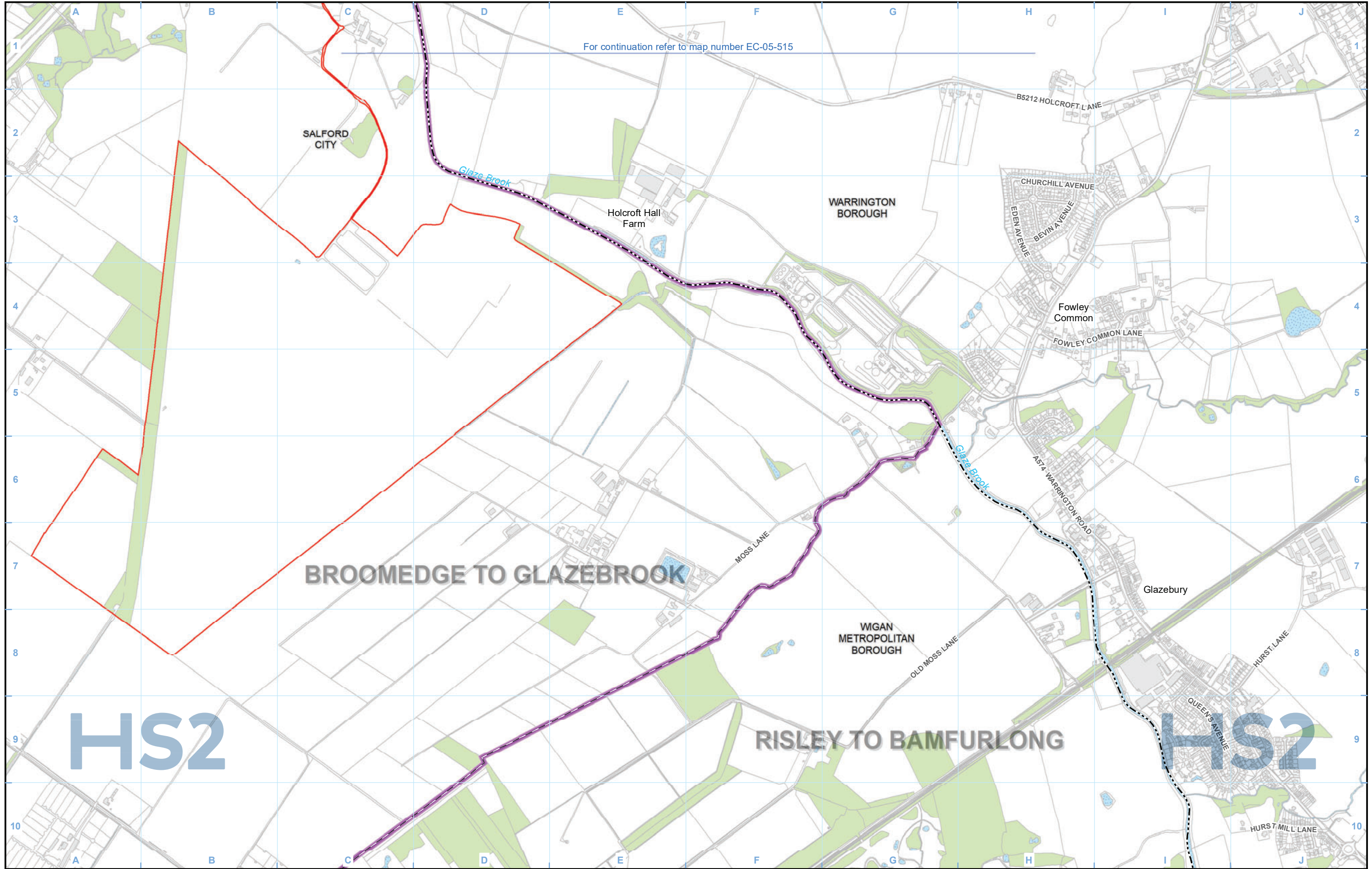
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Date: 06/08/21

For continuation refer to map number EC-05-515



For continuation refer to map number EC-05-515



**BROOMEDGE TO GLAZEBROOK**

**RISLEY TO BAMFURLONG**

**HS2**

**HS2**

Legend	
	Route in 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-05-515-R1
Map Name	Bat - Roost
Community Area MA05: Risley to Bamfurlong	

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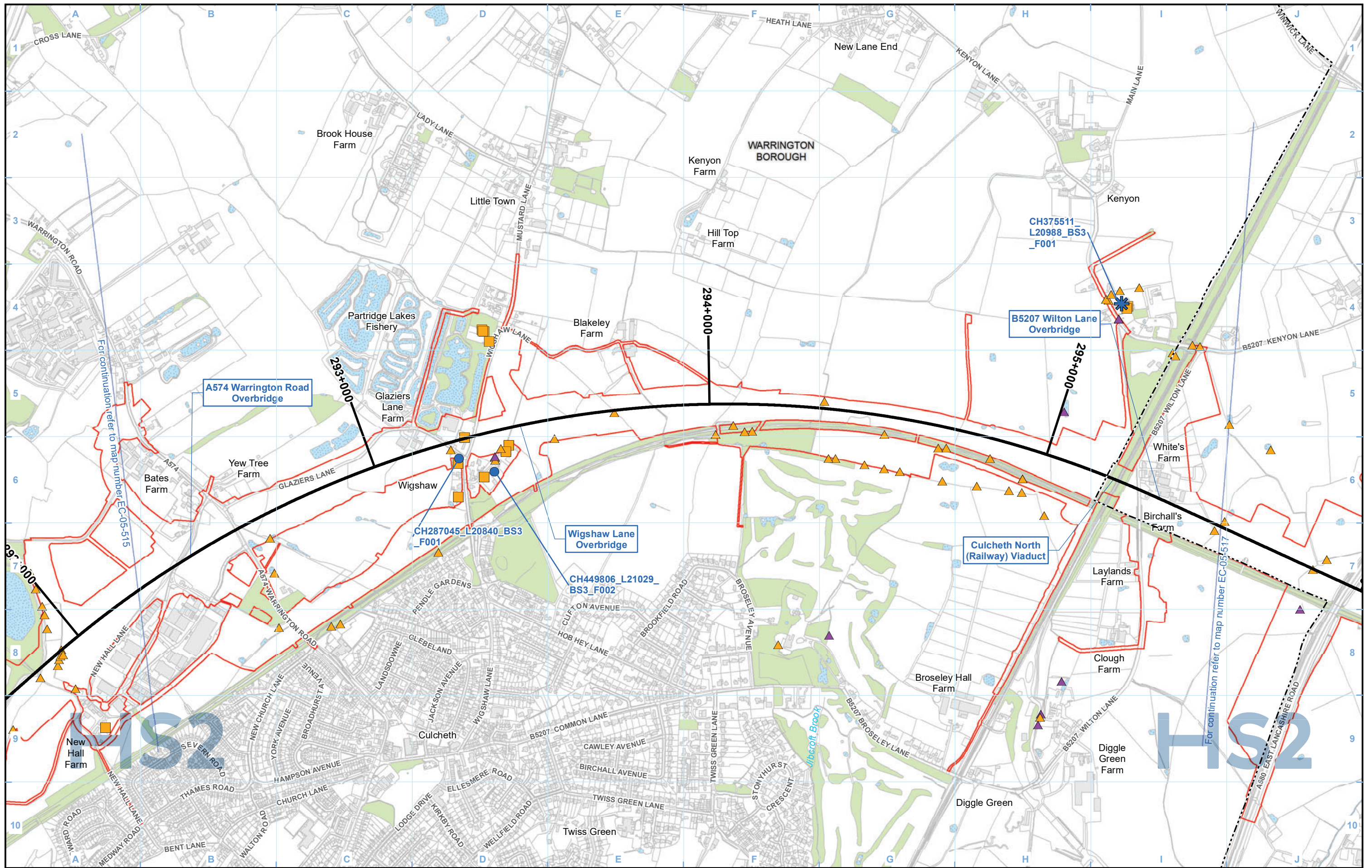
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Metres

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**Legend**

- Route in 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:
<span style="color: red;">◆</span> Hibernation roost	<span style="color: blue;">◆</span> Hibernation roost	<span style="background-color: purple; width: 10px; height: 10px; display: inline-block;"></span> High
<span style="color: red;">★</span> Maternity roost	<span style="color: blue;">★</span> Maternity roost	<span style="background-color: orange; width: 10px; height: 10px; display: inline-block;"></span> Moderate
<span style="color: red;">●</span> Other roost	<span style="color: blue;">●</span> Other roost	Potential to support roosting bats - trees:
<span style="color: red;">✳</span> Multiple roost types	<span style="color: blue;">✳</span> Multiple roost types	<span style="color: purple;">▲</span> High
		<span style="color: orange;">▲</span> Moderate

Map Number	EC-05-516
Map Name	Bat - Roost
Community Area MA05: Risley to Bamfurlong	

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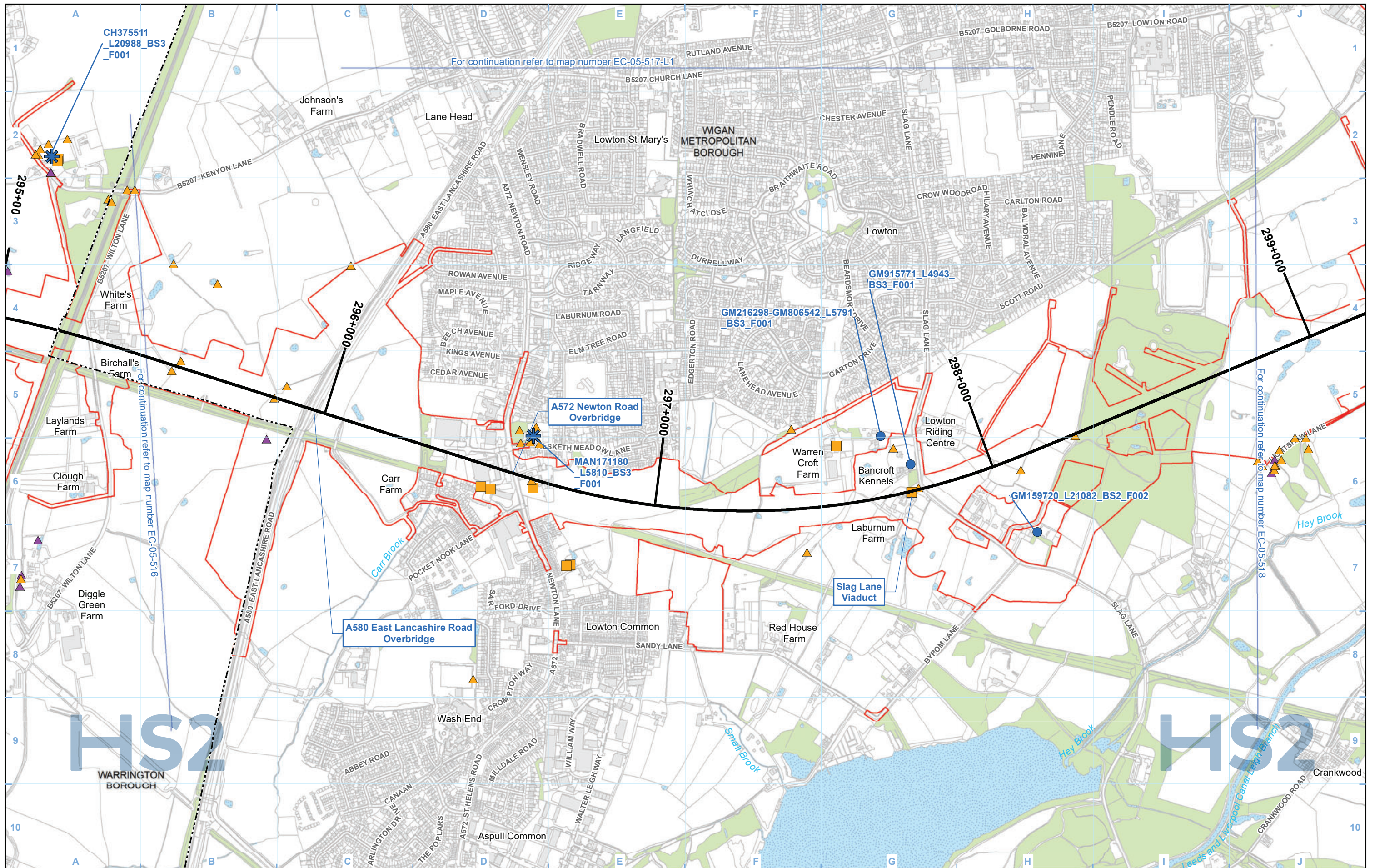
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**Legend**

- Route in 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-05-517

Map Name: Bat - Roost

Community Area MA05:  
Risley to Bamfurlong

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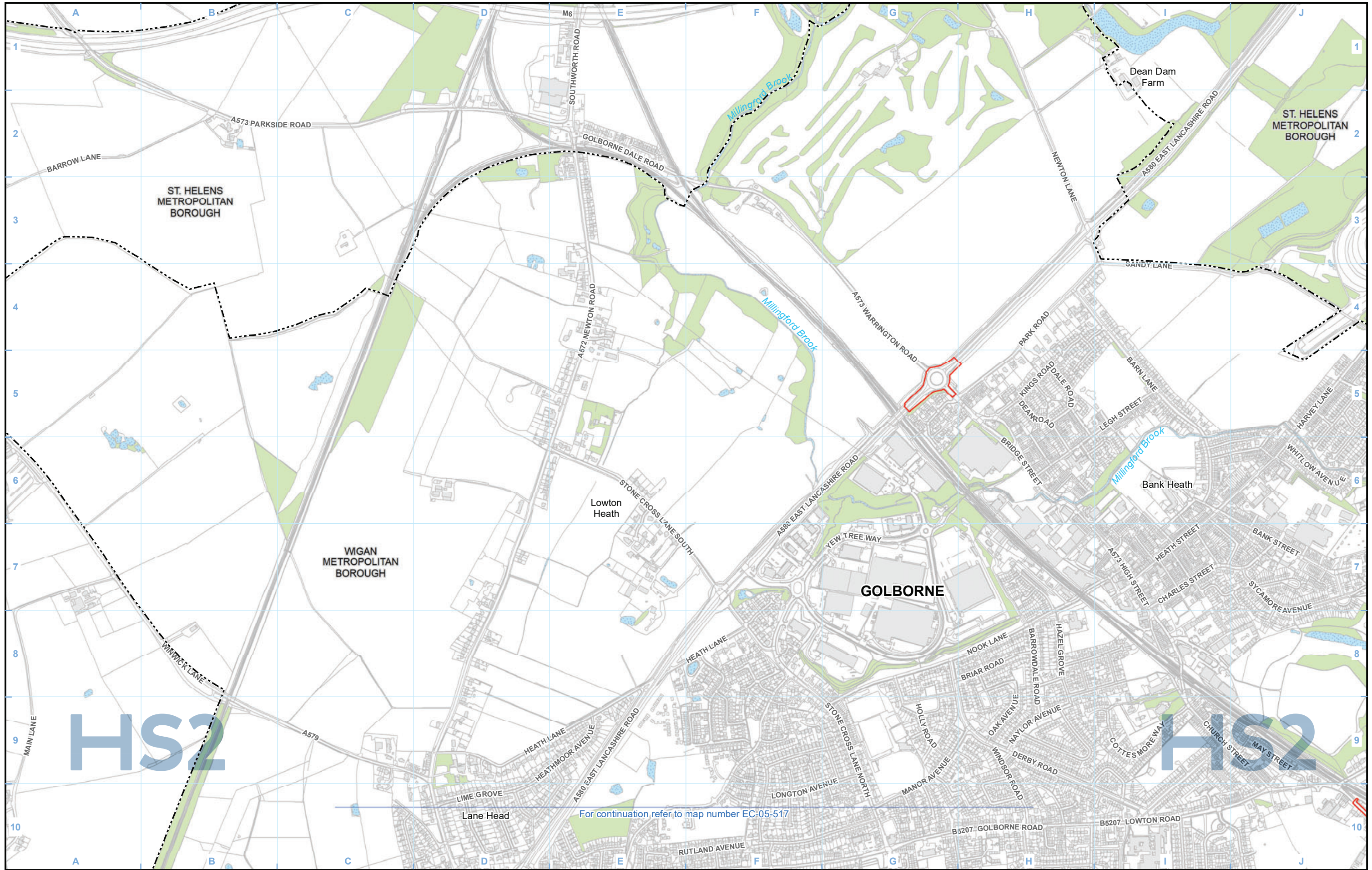
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Date: 06/08/21





**Legend**

		<b>Confirmed bat roost - trees:</b>	<b>Confirmed bat roost - building:</b>	<b>Potential to support roosting bats - buildings:</b>
				<b>Potential to support roosting bats - trees:</b>

Map Number: EC-05-517-L1

Map Name: Bat - Roost

Community Area MA05: Risley to Bamfurlong

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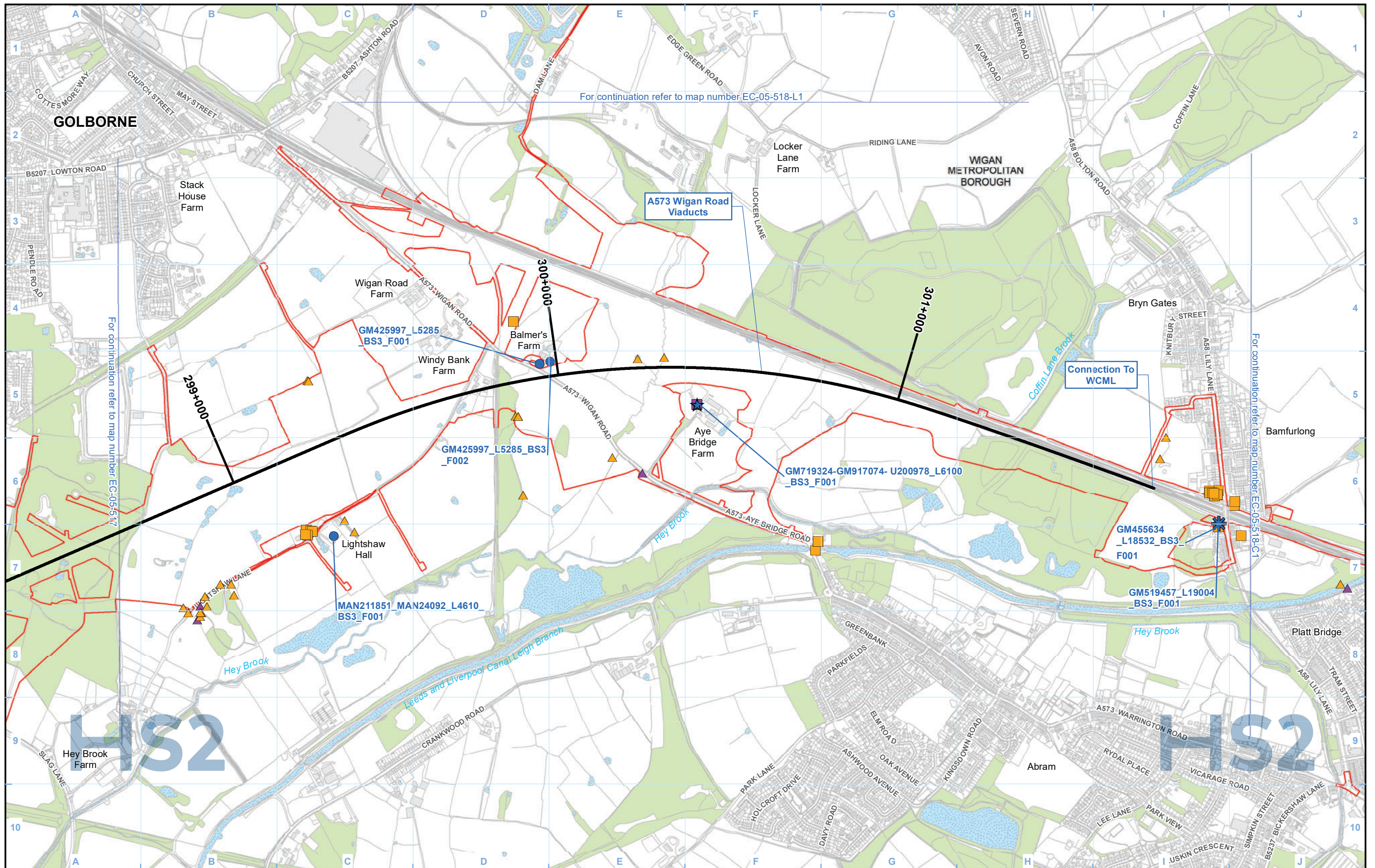
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Date: 06/08/21





For continuation refer to map number EC-05-518-L1

For continuation refer to map number EC-05-517

For continuation refer to map number EC-05-518-C1

Legend	
	Route in 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-05-518
Map Name	Bat - Roost
Community Area MA05: Risley to Bamfurlong	

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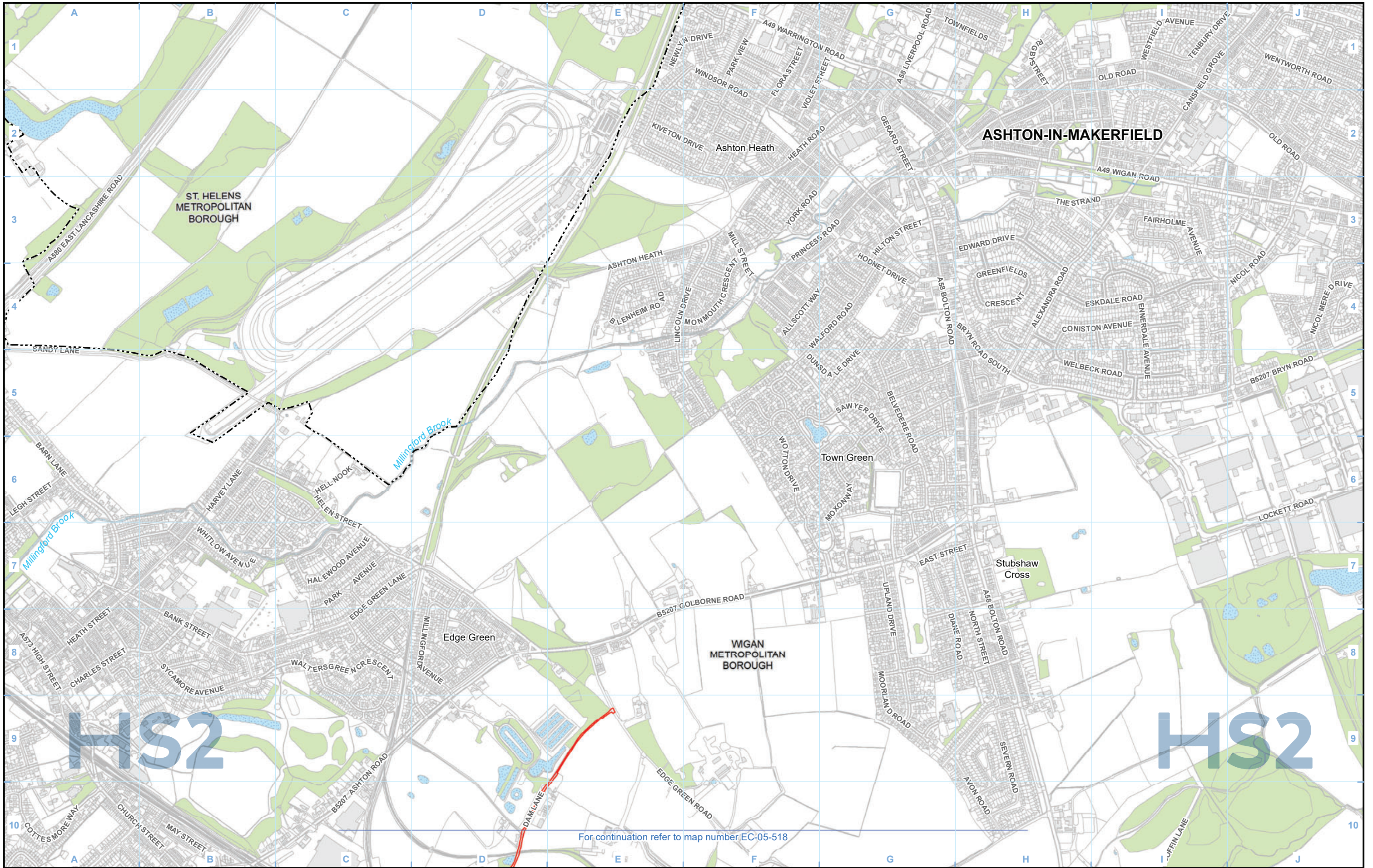
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For continuation refer to map number EC-05-518

**Legend**

- |  |   |  |   |   |
|--|---|--|---|---|
| <ul style="list-style-type: none"> <li> Route in 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> |
|--|---|--|---|---|

Map Number	EC-05-518-L1
Map Name	Bat - Roost
	Community Area MA05: Risley to Bamfurlong

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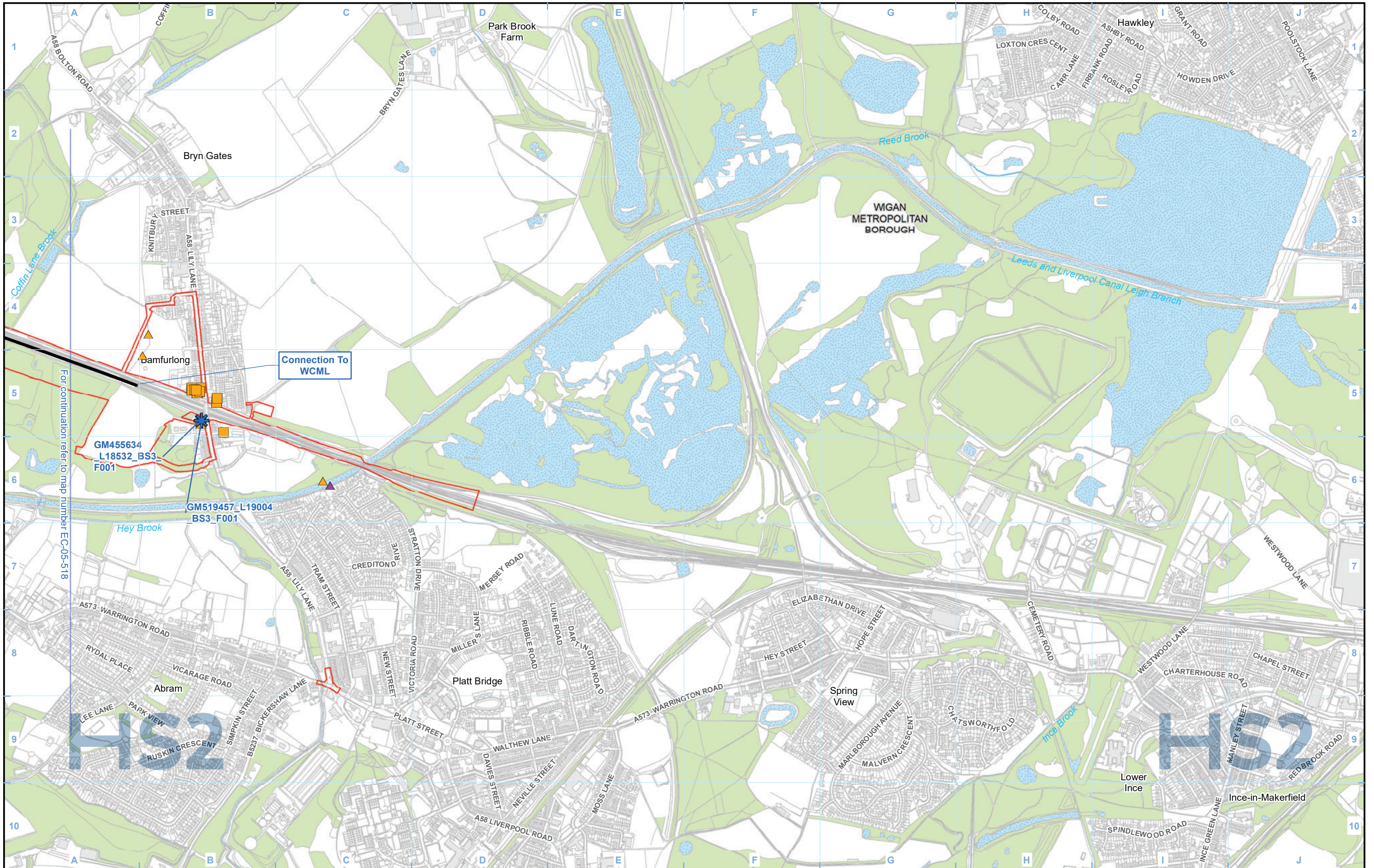
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Metres

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**Legend**

		<b>Confirmed bat roost - trees:</b>	<b>Confirmed bat roost - building:</b>	<b>Potential to support roosting bats - buildings:</b>
				<b>Potential to support roosting bats - trees:</b>

Map Number	EC-05-518-C1
Map Name	Bat - Roost
Community Area MA05: Risley to Bamfurlong	

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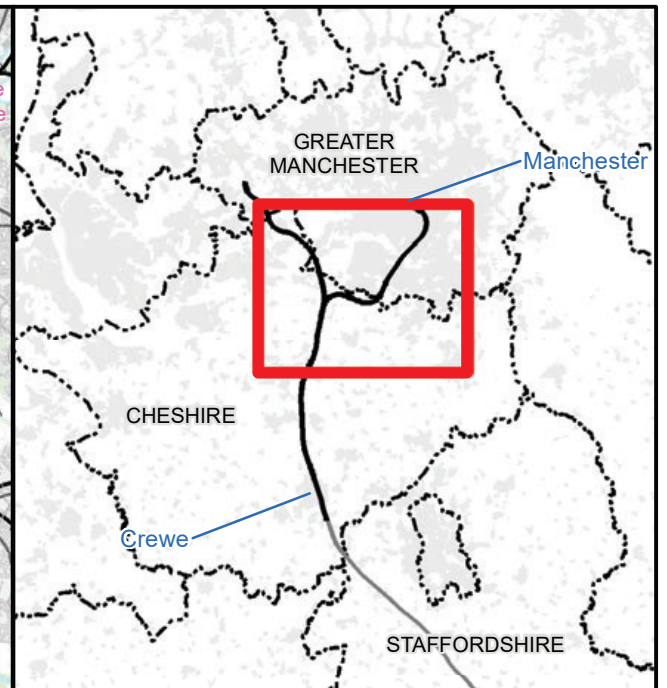
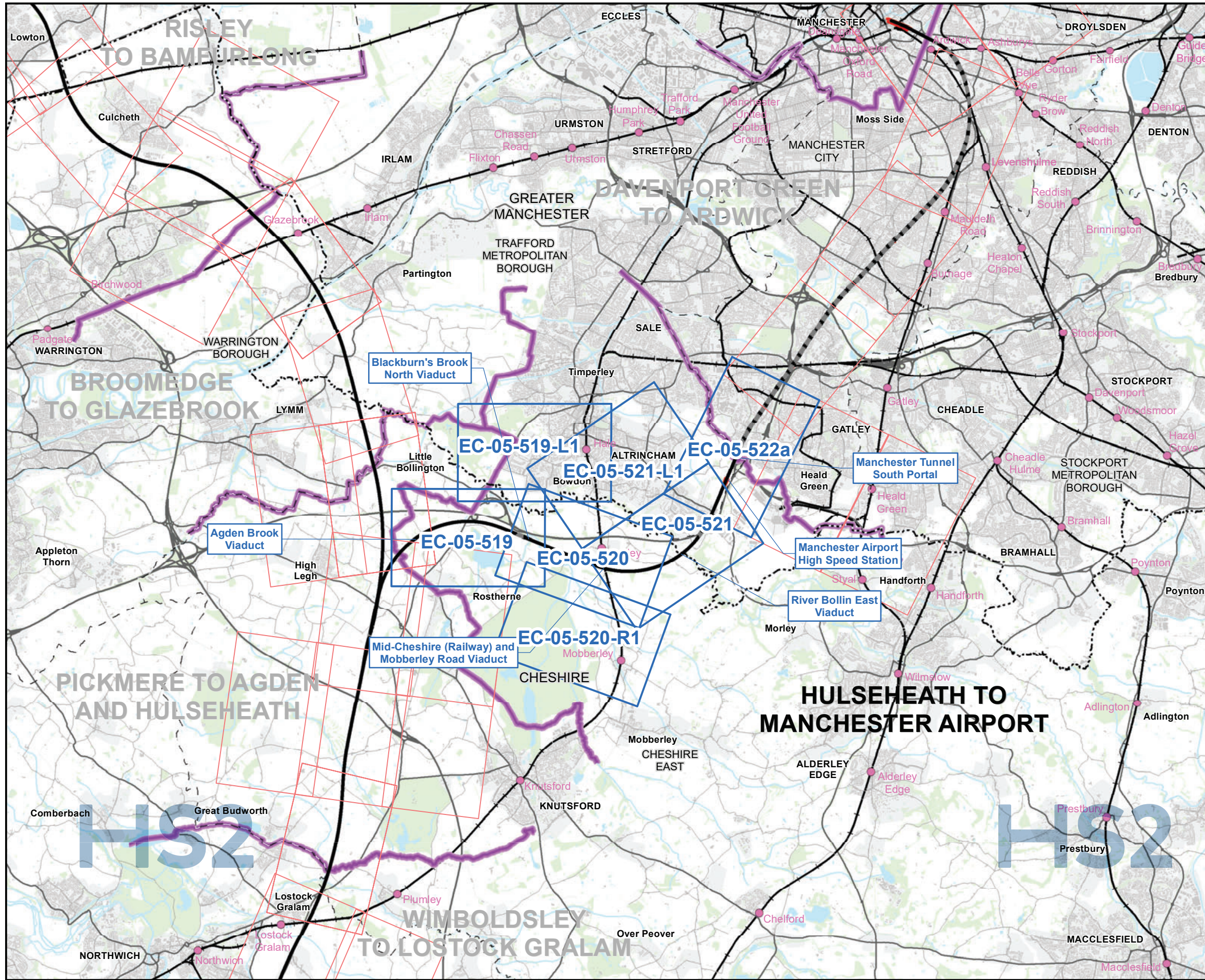
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Date: 06/08/21



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**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. The maps show 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-MA06
Map Name	Index Map of: Bat - Roost
	Community Area MA06: Hulseheath to Manchester Airport

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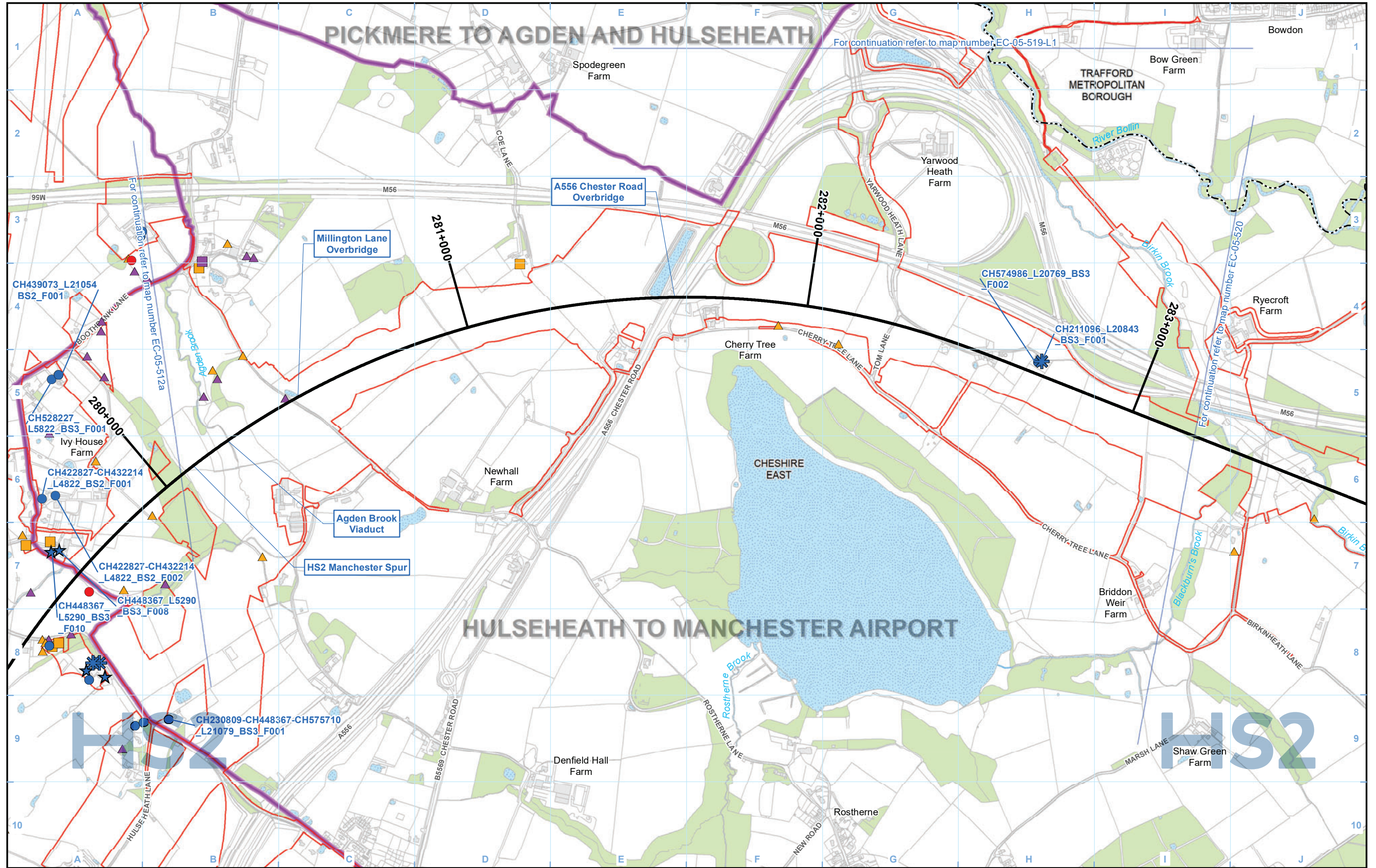
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**Legend**

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

Map Number	EC-05-519
Map Name	Bat - Roost
Community Area MA06: Hulseheath to Manchester Airport	

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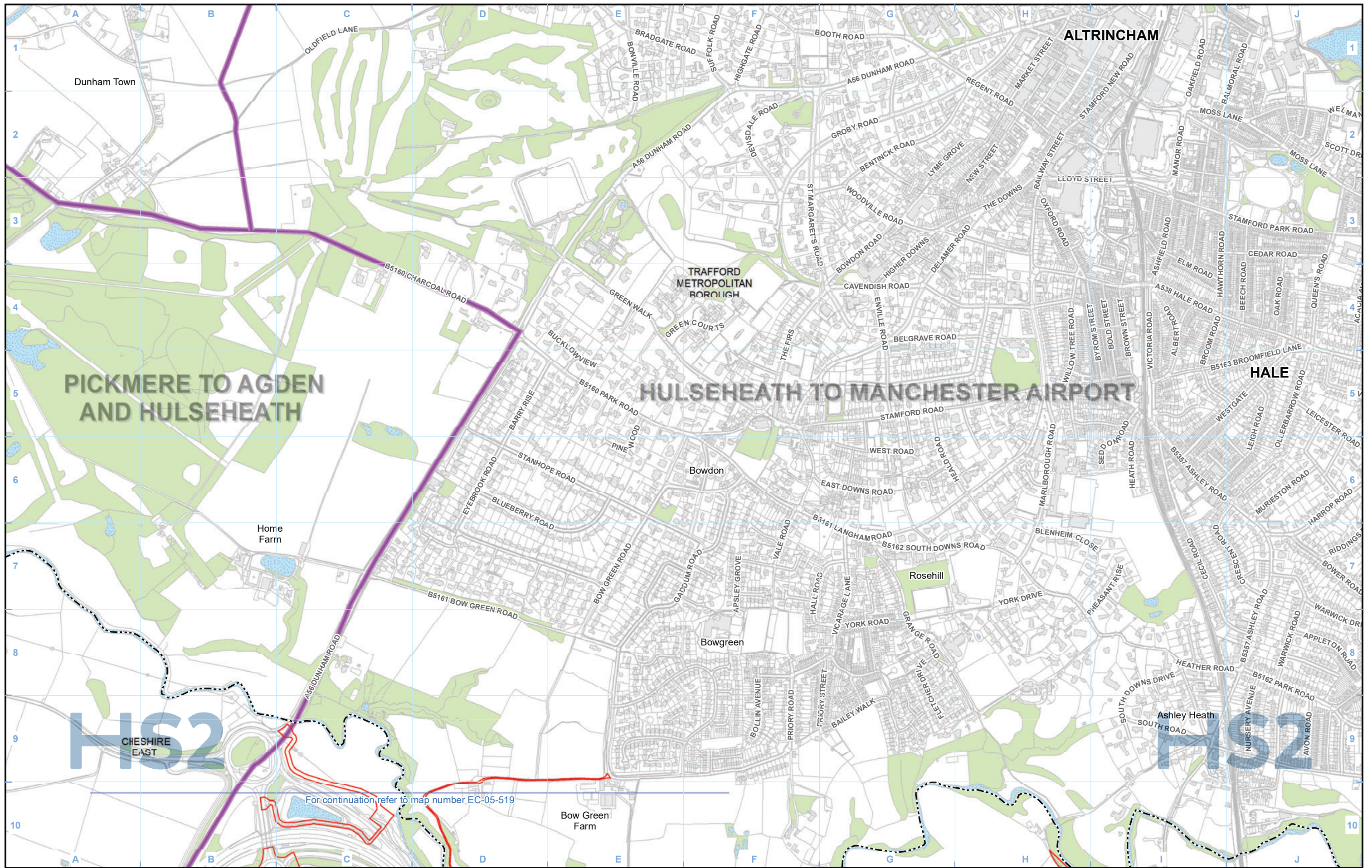
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PICKMERE TO AGDEN AND HULSEHEATH

HULSEHEATH TO MANCHESTER AIRPORT

**Legend**

- Route in 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-05-519-L1

Map Name: Bat - Roost

Community Area MA06:  
Hulseheath to Manchester Airport

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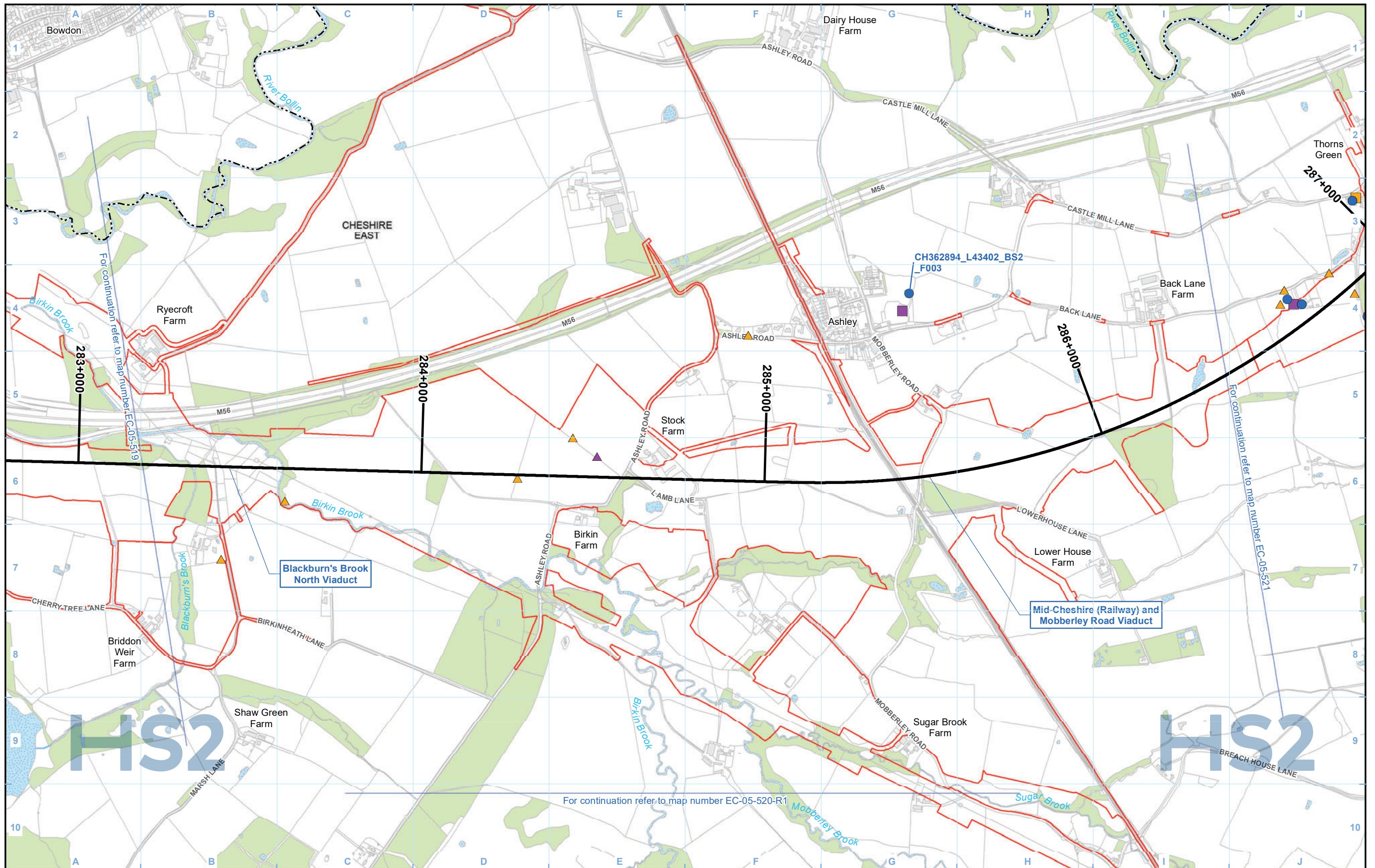
Doc Number: 2DE01-MWJ-EV-MAP-M000-003667-P01.6

Date: 06/08/21

Scale at A3: 1:10,000

0 100 200 300 400 Metres





**Legend**

- Route in 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-05-520

Map Name: Bat - Roost

Community Area MA06:  
Hulseheath to Manchester Airport

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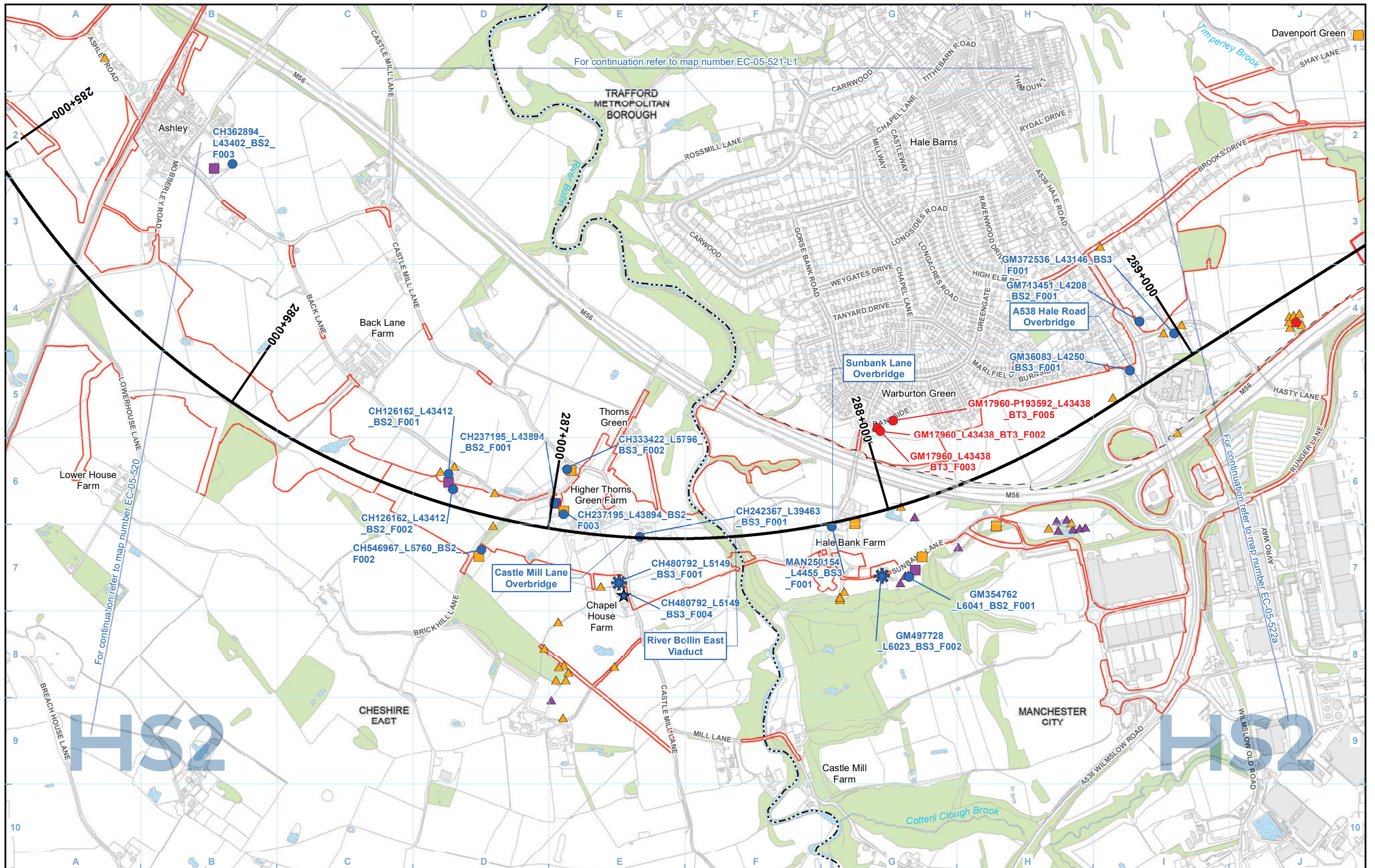
Date: 06/08/21





<b>Legend</b> Route in 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	
<b>Map Number</b> EC-05-520-R1				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>				<b>Scale at A3: 1:10,000</b>	
<b>Map Name</b> Bat - Roost		<small>© Crown copyright and database rights 2020 OS 100049190</small>				<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003617-P01.6</small>		<b>Date: 06/08/21</b>	
<b>Community Area MA06:</b> Hulseheath to Manchester Airport									





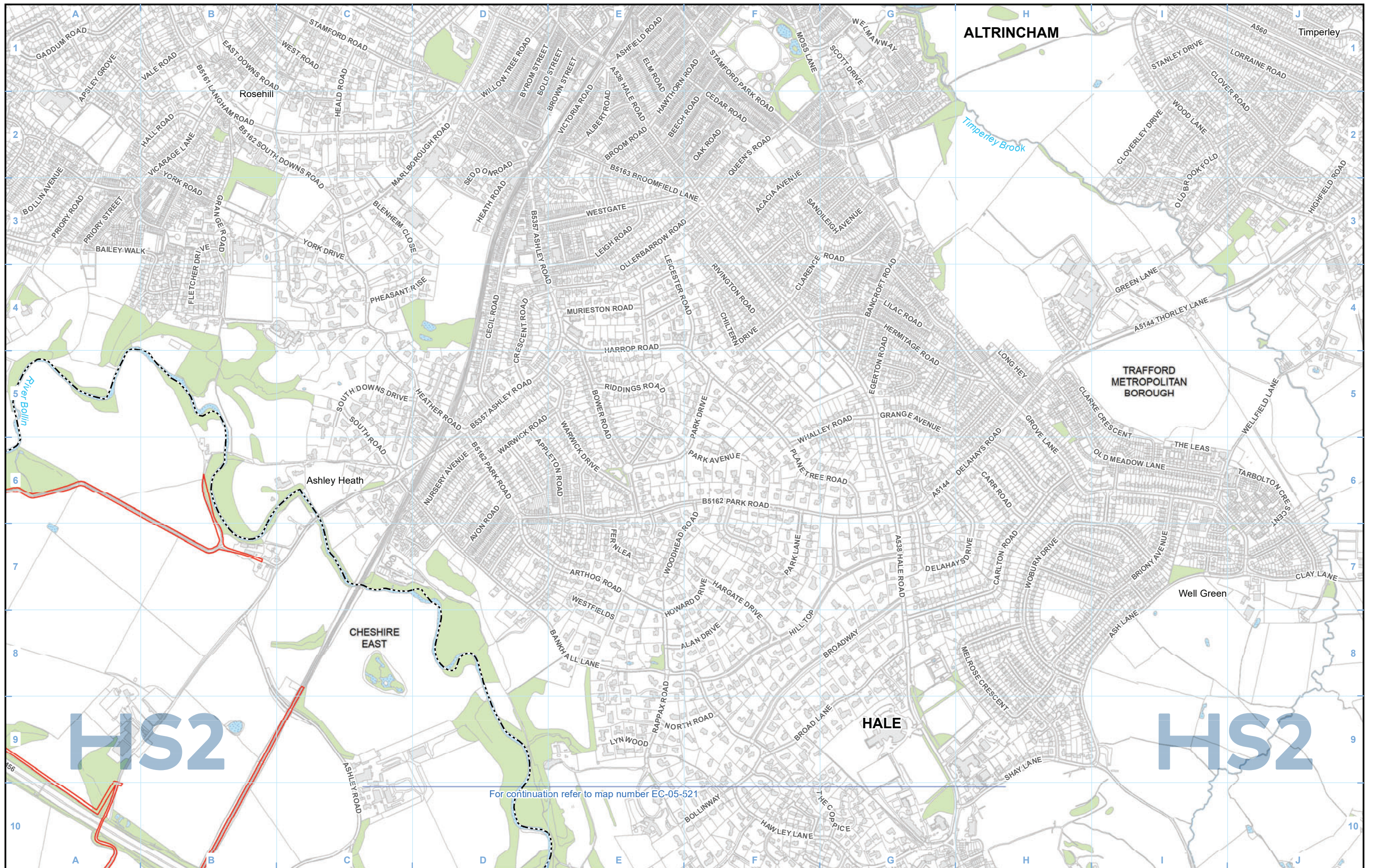
For continuation refer to map number EC-05-521-L1

For continuation refer to map number EC-05-520

For continuation refer to map number EC-05-522a

<b>Legend</b> Route in 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 Potential		<b>Potential to support roosting bats - trees:</b> High Moderate	
<b>Map Number</b> EC-05-521		<b>Map Name</b> Bat - Roost				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>		<b>Scale at A3: 1:10,000</b> 		<small>© Crown copyright and database rights 2020 OS 100049190</small>	
<b>Community Area MA06:</b> Hulseheath to Manchester Airport		<b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-001017-P01.6		<b>Date:</b> 06/08/21							





**Legend**

- Route in 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-05-521-L1

Map Name: Bat - Roost

Community Area MA06:  
Hulseheath to Manchester Airport

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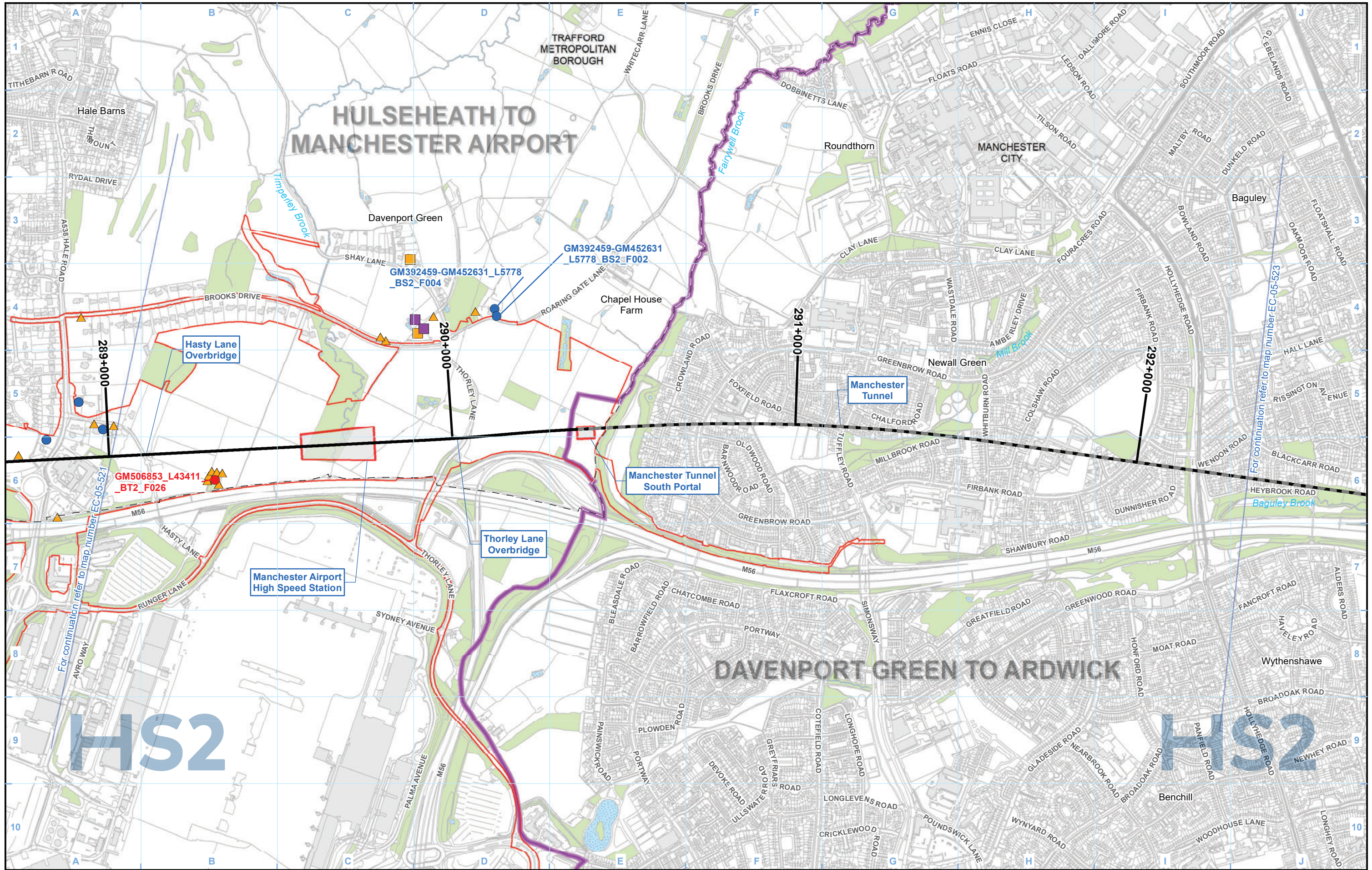
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003668-P01.6

Date: 06/08/21





**Legend**

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

Map Number: EC-05-522a

Map Name: Bat - Roost

Community Area MA06:  
Hulseheath to Manchester Airport

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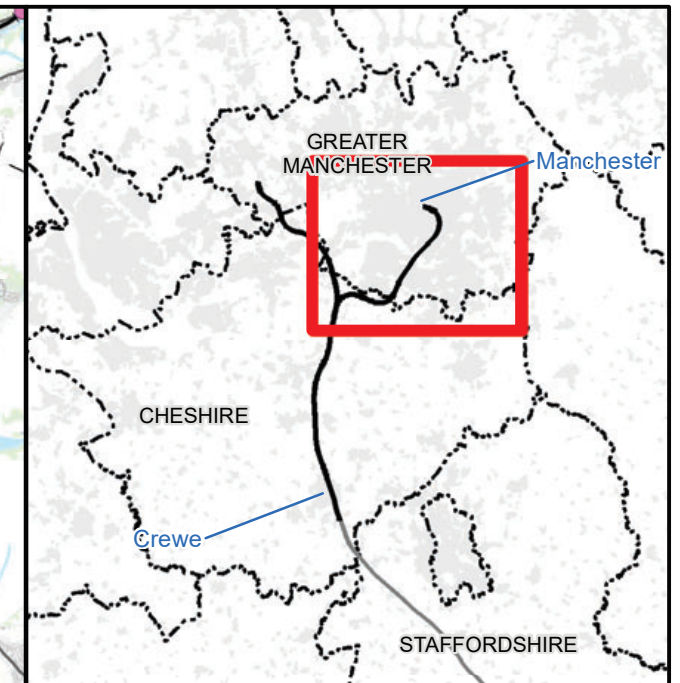
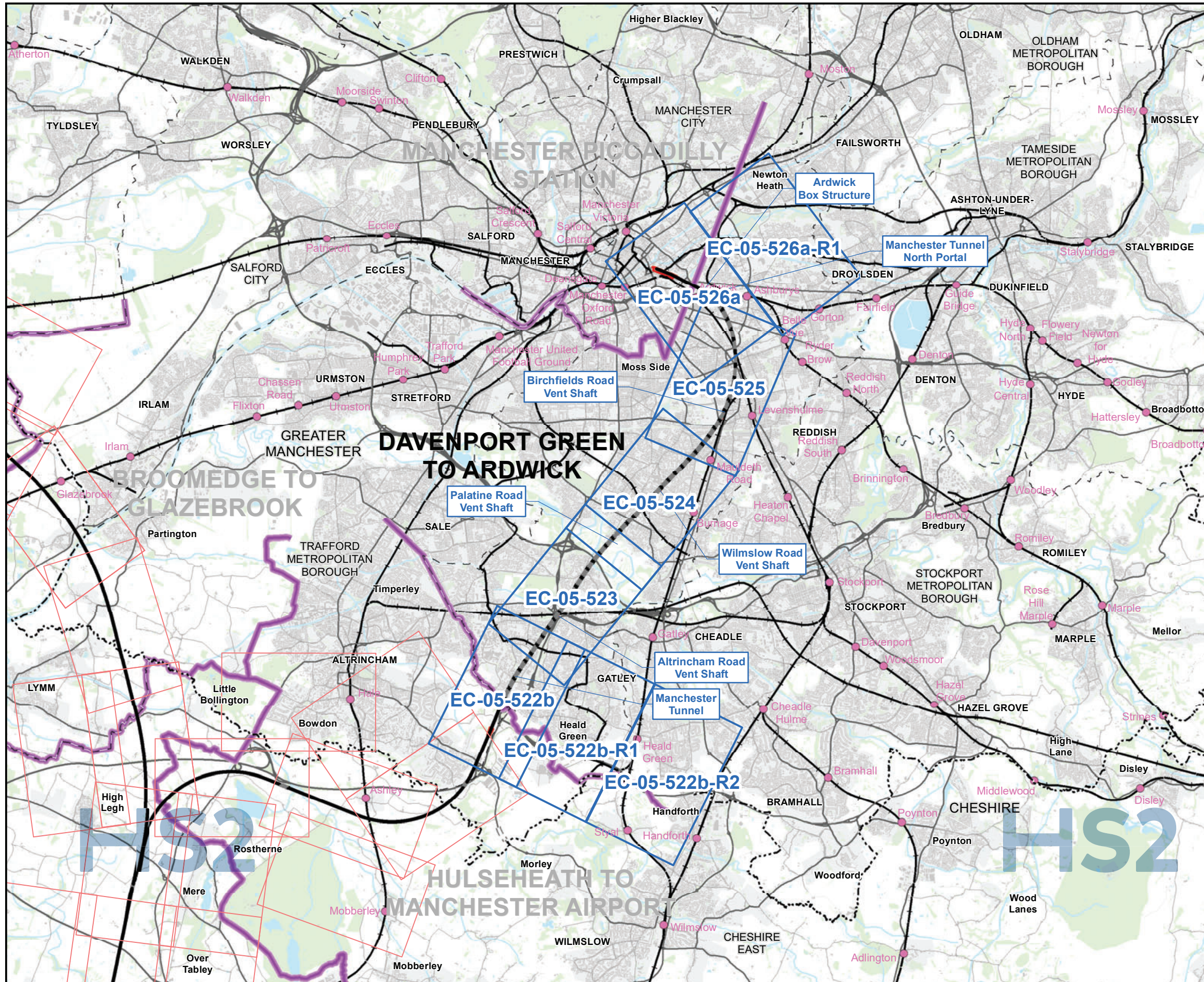
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### Map Series Information:

This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. The maps show 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-MA07
Map Name	Index Map of: Bat - Roost
	Community Area MA07: Davenport Green to Ardwick

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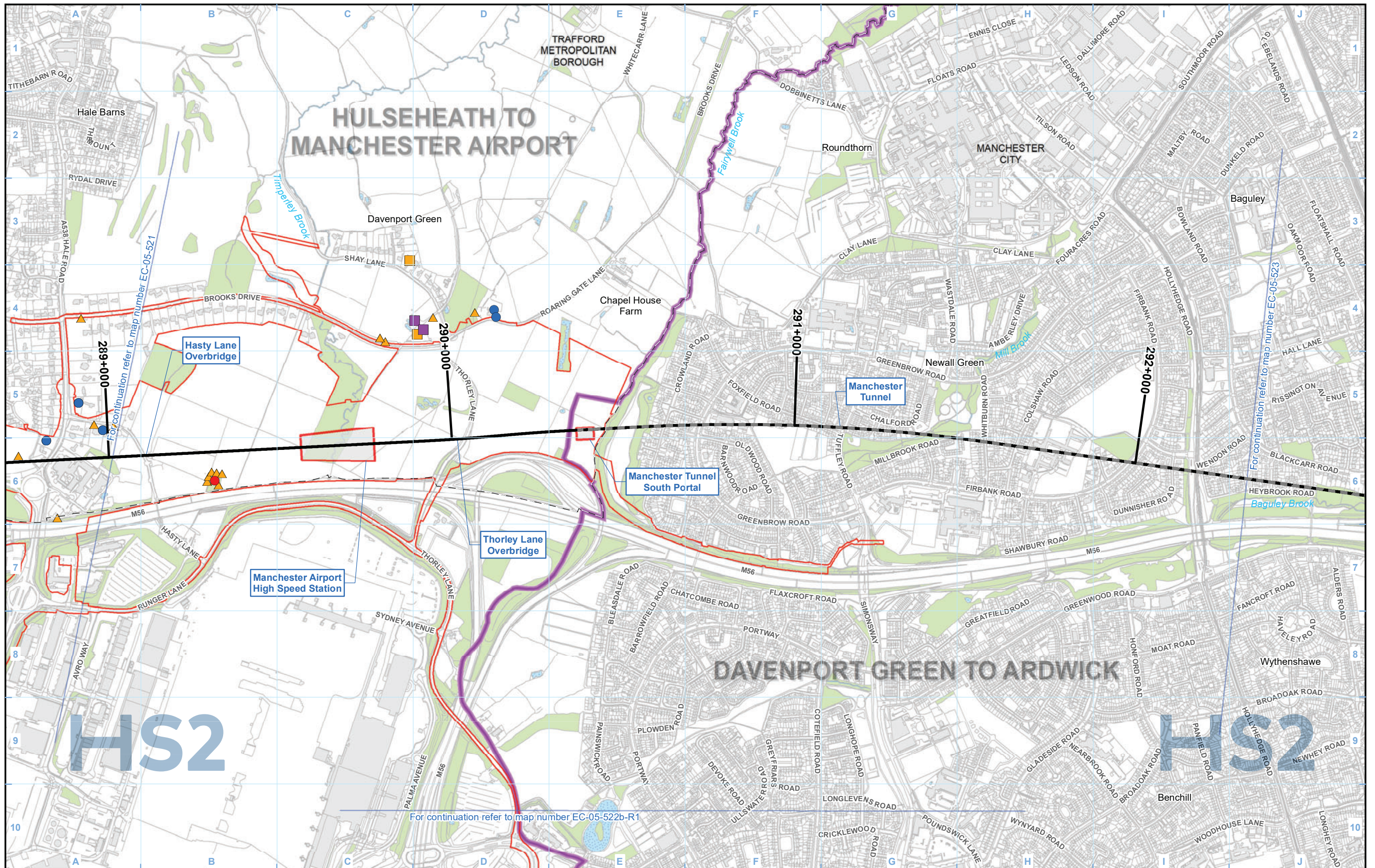
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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified 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-05-522b
Map Name	Bat - Roost
Community Area MA07: Davenport Green to Ardwick	

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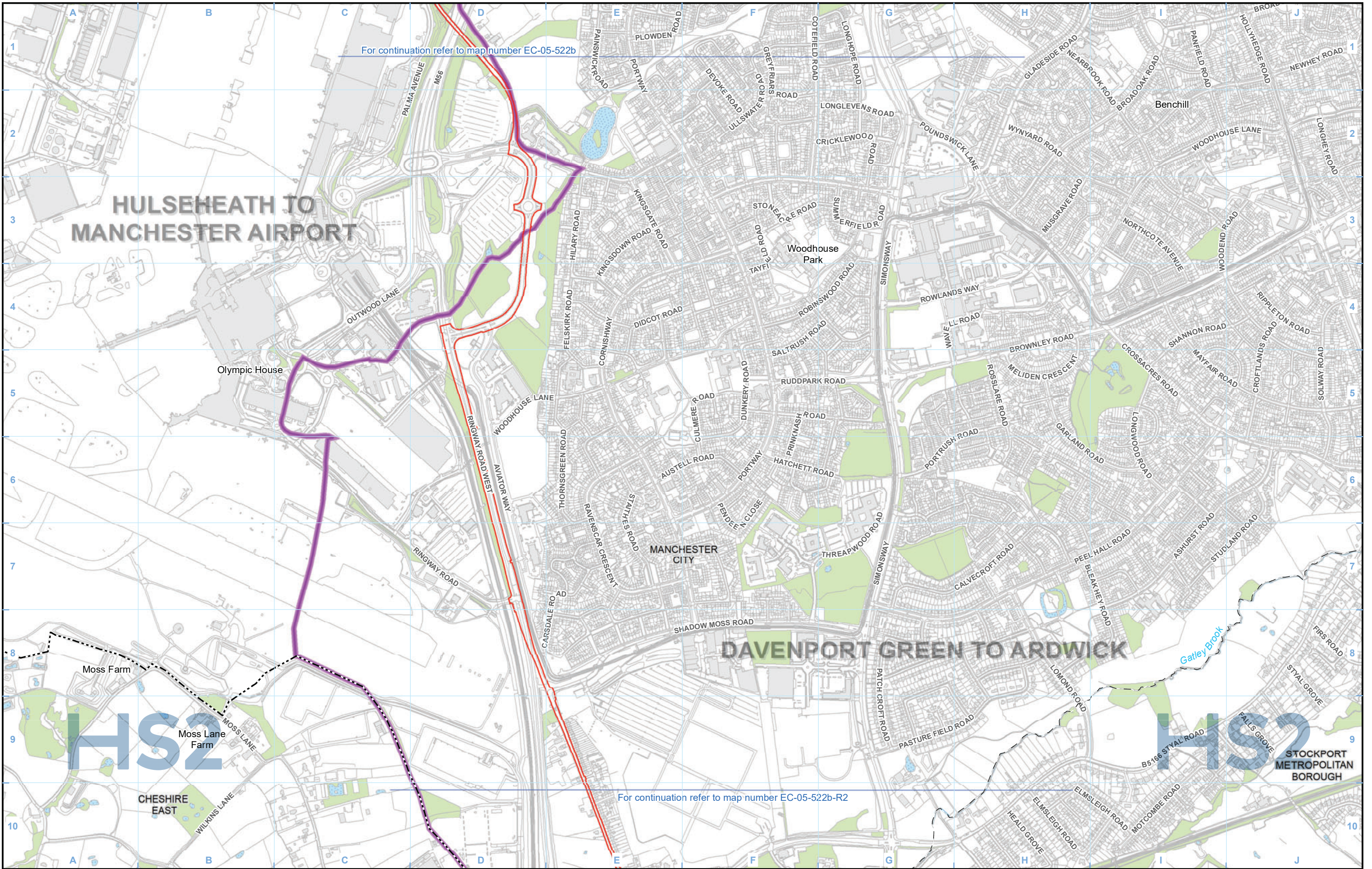
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Scale at A3: 1:10,000

Metres

Date: 06/08/21





For continuation refer to map number EC-05-522b

For continuation refer to map number EC-05-522b-R2

**Legend**

- Route in 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-05-522b-R1

Map Name: Bat - Roost

Community Area MA07: Davenport Green to Ardwick

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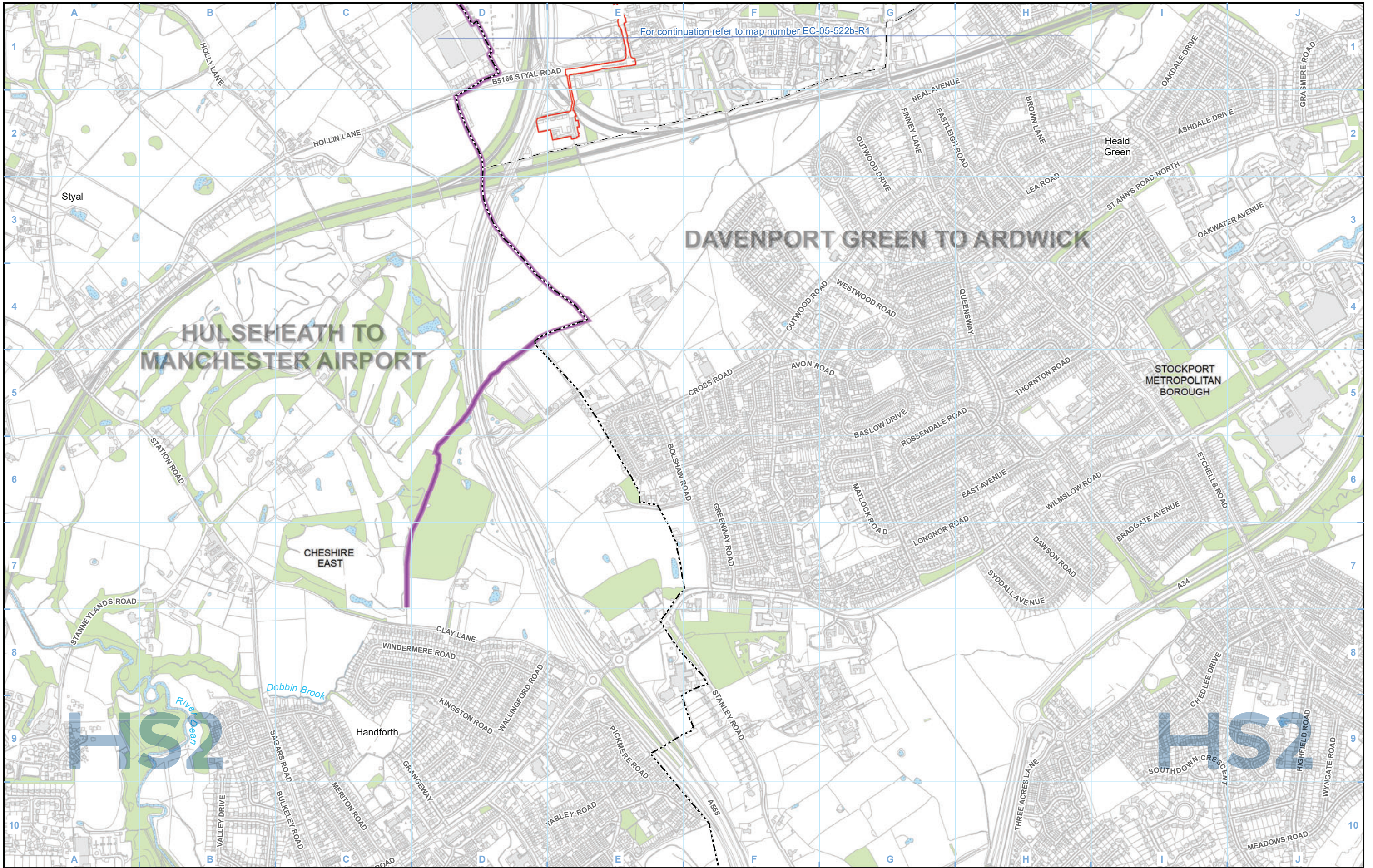
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Date: 06/08/21

Scale at A3: 1:10,000

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For continuation refer to map number EC-05-522b-R1

**HULSEHEATH TO MANCHESTER AIRPORT**

**DAVENPORT GREEN TO ARDWICK**

**STOCKPORT METROPOLITAN BOROUGH**

**CHESHIRE EAST**

Handforth

Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in 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-05-522b-R2
Map Name	Bat - Roost
	Community Area MA07: Davenport Green to Ardwick

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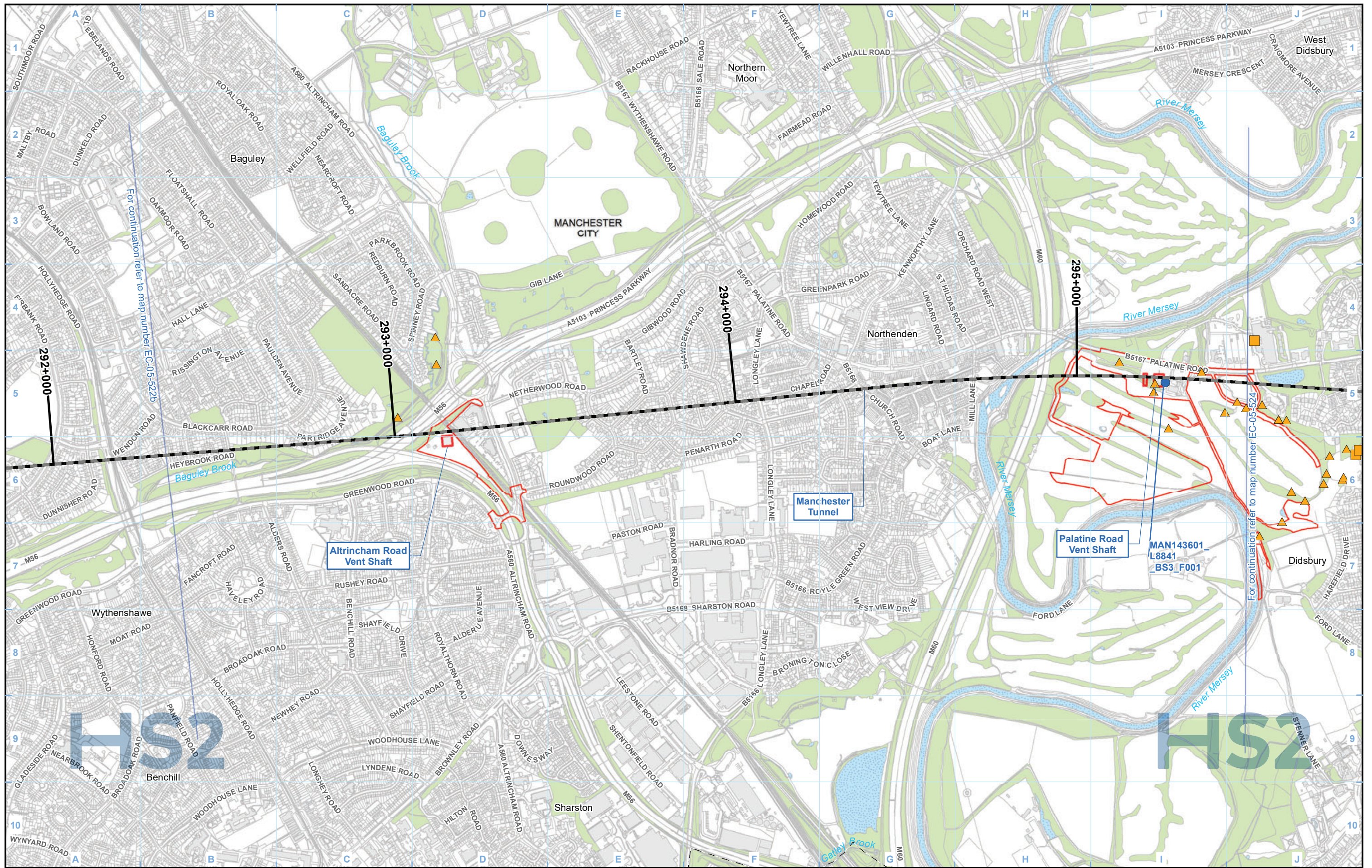
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0 100 200 300 400 Metres

Doc Number: 2DE01-MWJ-EV-MAP-M000-003669-P01.6 Date: 06/08/21





**Legend**

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

Map Number: EC-05-523

Map Name: Bat - Roost

Community Area MA07: Davenport Green to Ardwick

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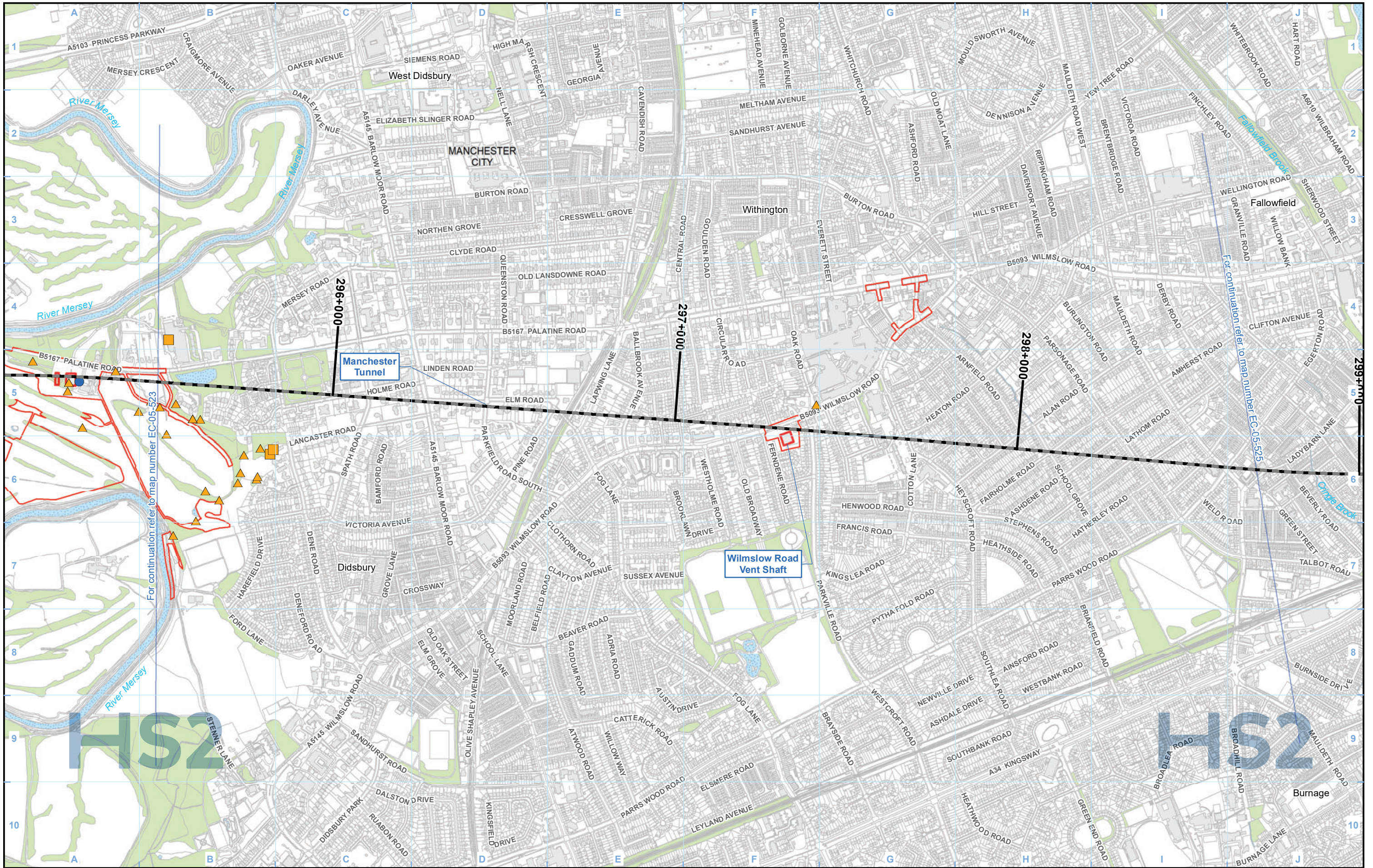
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**Legend**

- Route in tunnel (dashed line)
- Route on surface (solid line)
- Depot, station, headhouse or portal building (red outline)
- Land potentially required during construction (red outline)
- Community area boundary (purple outline)
- County boundary (dotted line)
- District/Borough boundary (thin solid line)
- Watercourse (blue line)
- Water body (blue area)
- Woodland (not verified by survey) (green area)

**Confirmed bat roost - trees:**

- Hibernation roost (red diamond)
- Maternity roost (red star)
- Other roost (red circle)
- Multiple roost types (red asterisk)

**Confirmed bat roost - building:**

- Hibernation roost (blue diamond)
- Maternity roost (blue star)
- Other roost (blue circle)
- Multiple roost types (blue asterisk)

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

- High (purple square)
- Moderate (orange square)

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

- High (purple triangle)
- Moderate (orange triangle)

Map Number: EC-05-524

Map Name: Bat - Roost

Community Area MA07: Davenport Green to Ardwick

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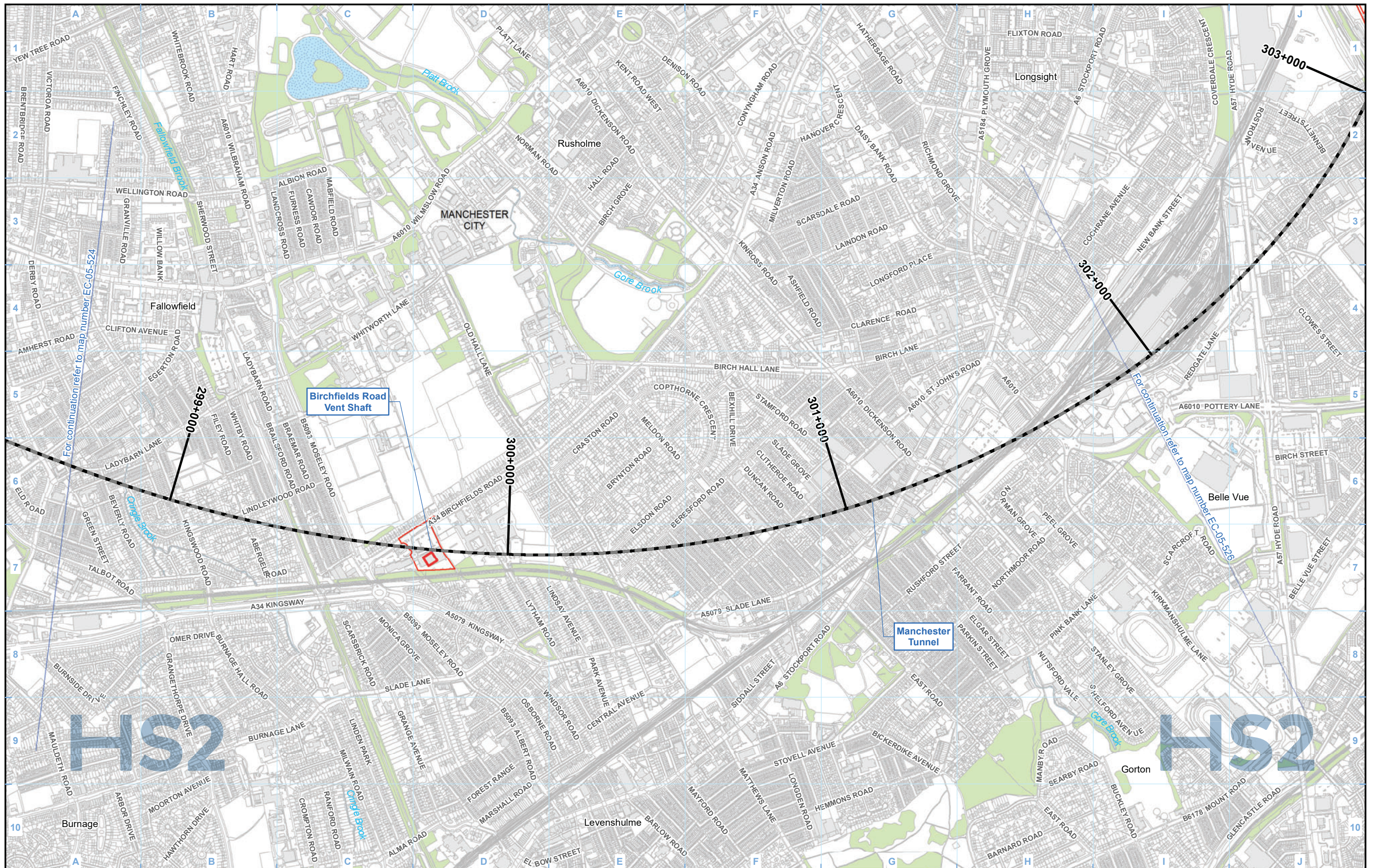
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Date: 06/08/21





**Legend**

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

Map Number: EC-05-525

Map Name: Bat - Roost

Community Area MA07: Davenport Green to Ardwick

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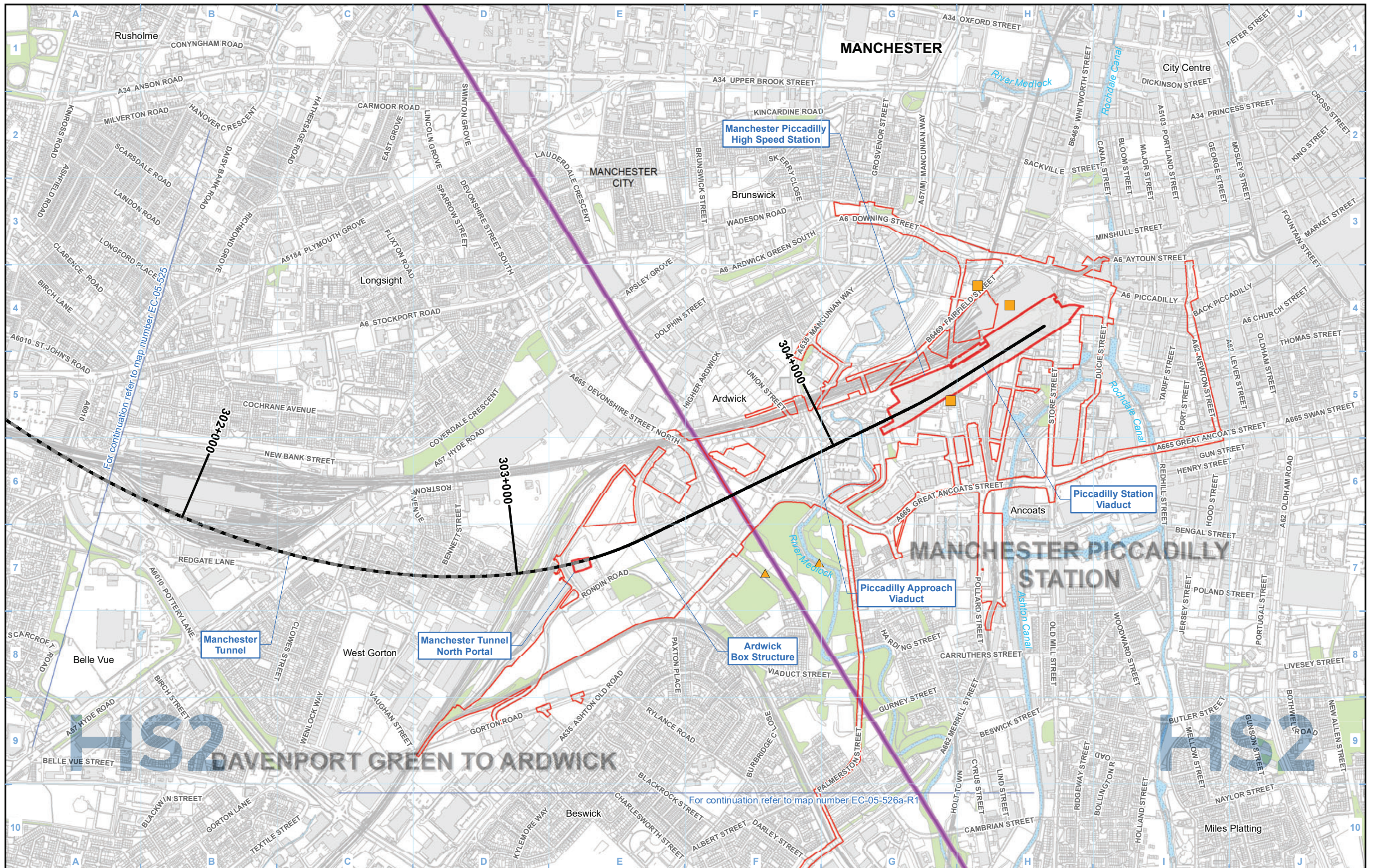
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**Legend**

- Route in 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-05-526a

Map Name: Bat - Roost

Community Area MA07:  
Davenport Green to Ardwick

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For continuation refer to map number EC-05-526a

**Legend**


Map Number **EC-05-526a-R1**

Map Name **Bat - Roost**

Community Area MA07:  
Davenport Green to Ardwick

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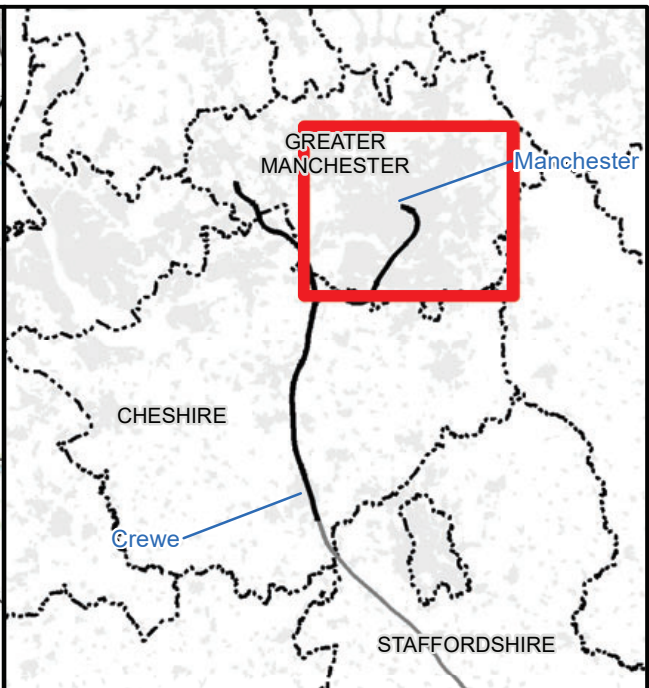
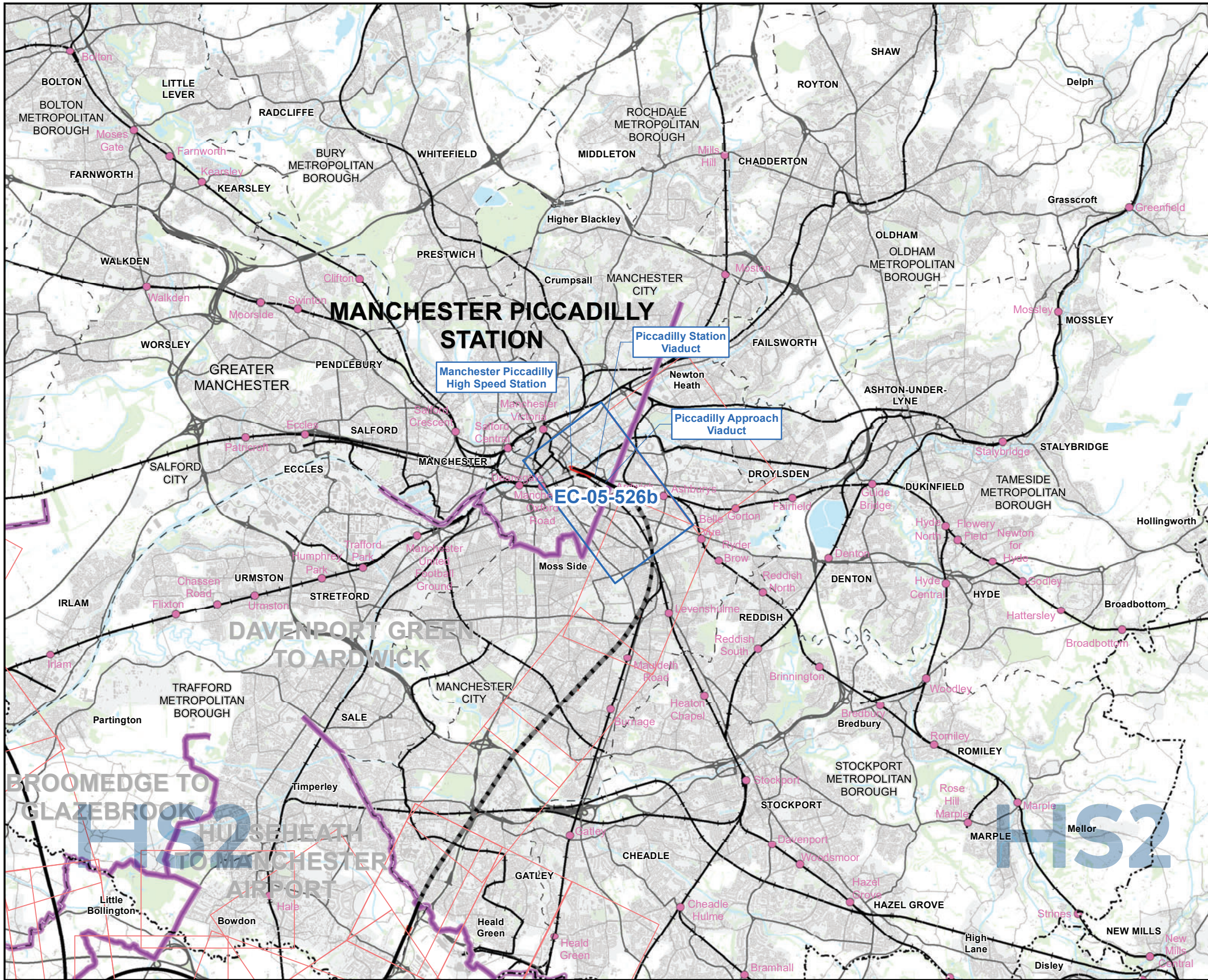
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Date: 06/08/21



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### 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. The maps show 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-MA08

Map Name: Index Map of: Bat - Roost

Community Area MA08: Manchester Piccadilly Station

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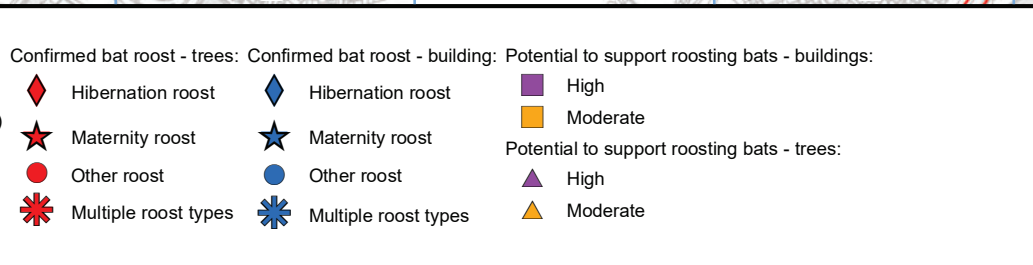
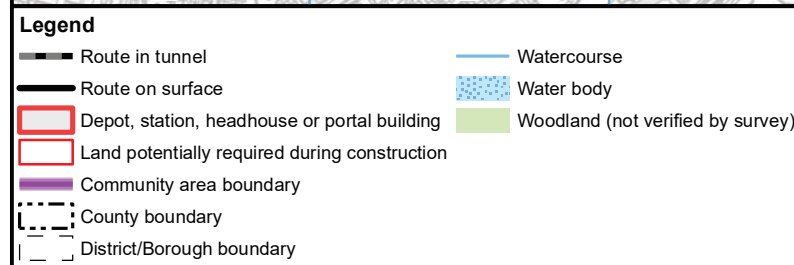
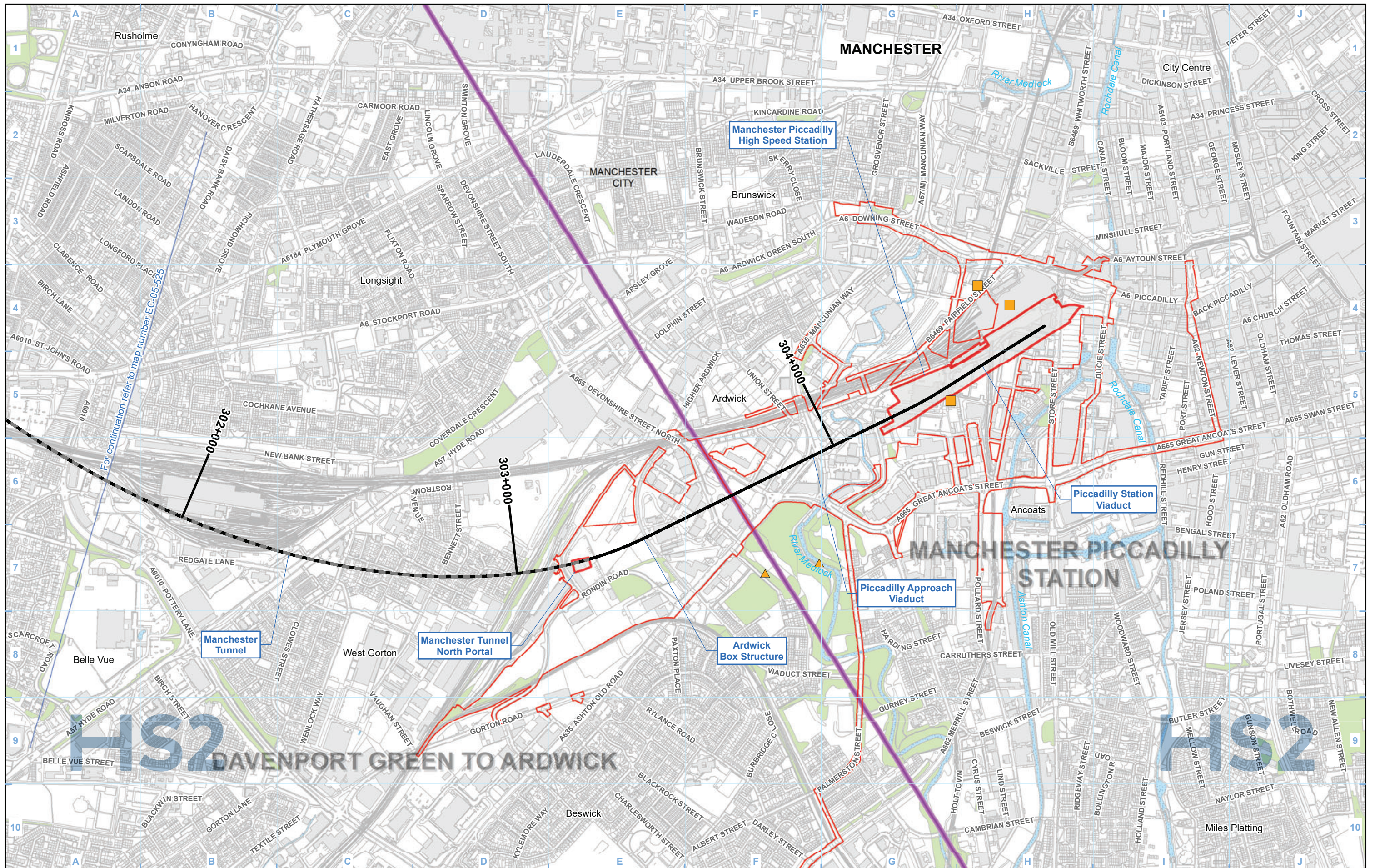
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Note: Not all data layers in the legend are represented on every map.





Map Number	EC-05-526b
Map Name	Bat - Roost
Community Area MA08:	Manchester Piccadilly Station

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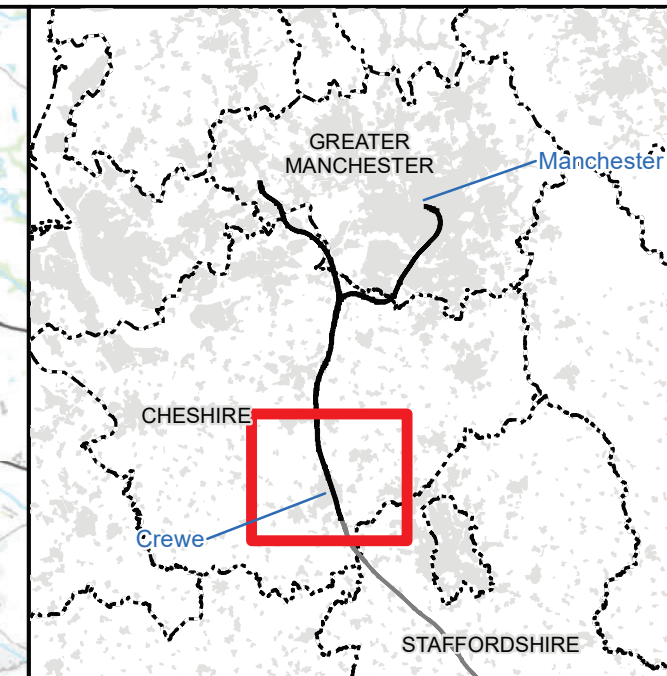
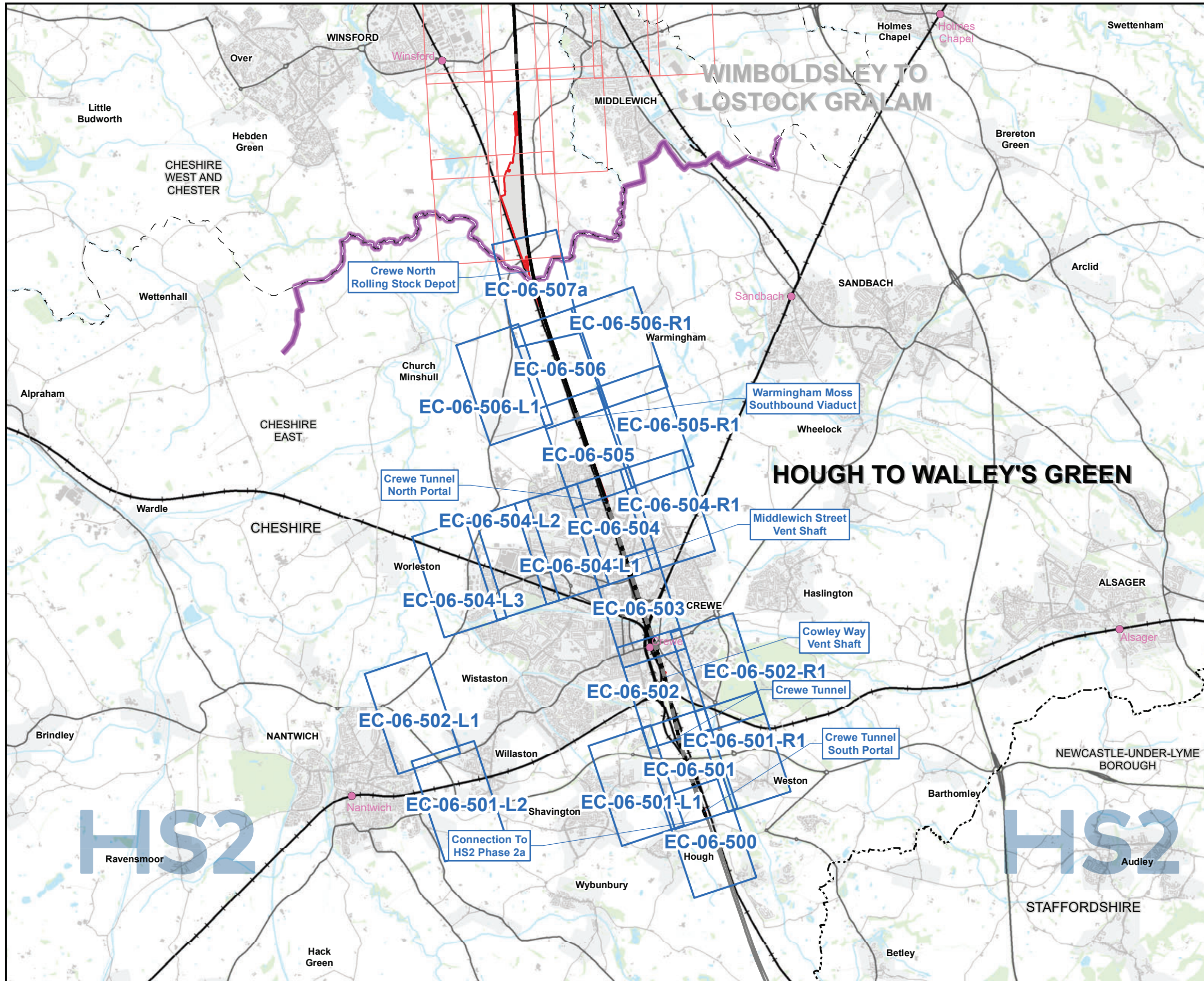
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## **High Speed Rail (Crewe - Manchester)**

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 sheet included in this community area
  - Map sheet not included in this community area

Map Number EC-06-INDEX-MA01

Map Name  
**Index Map of:  
Bat - Activity**

Community Area MA01:  
Hough to Walley's Green

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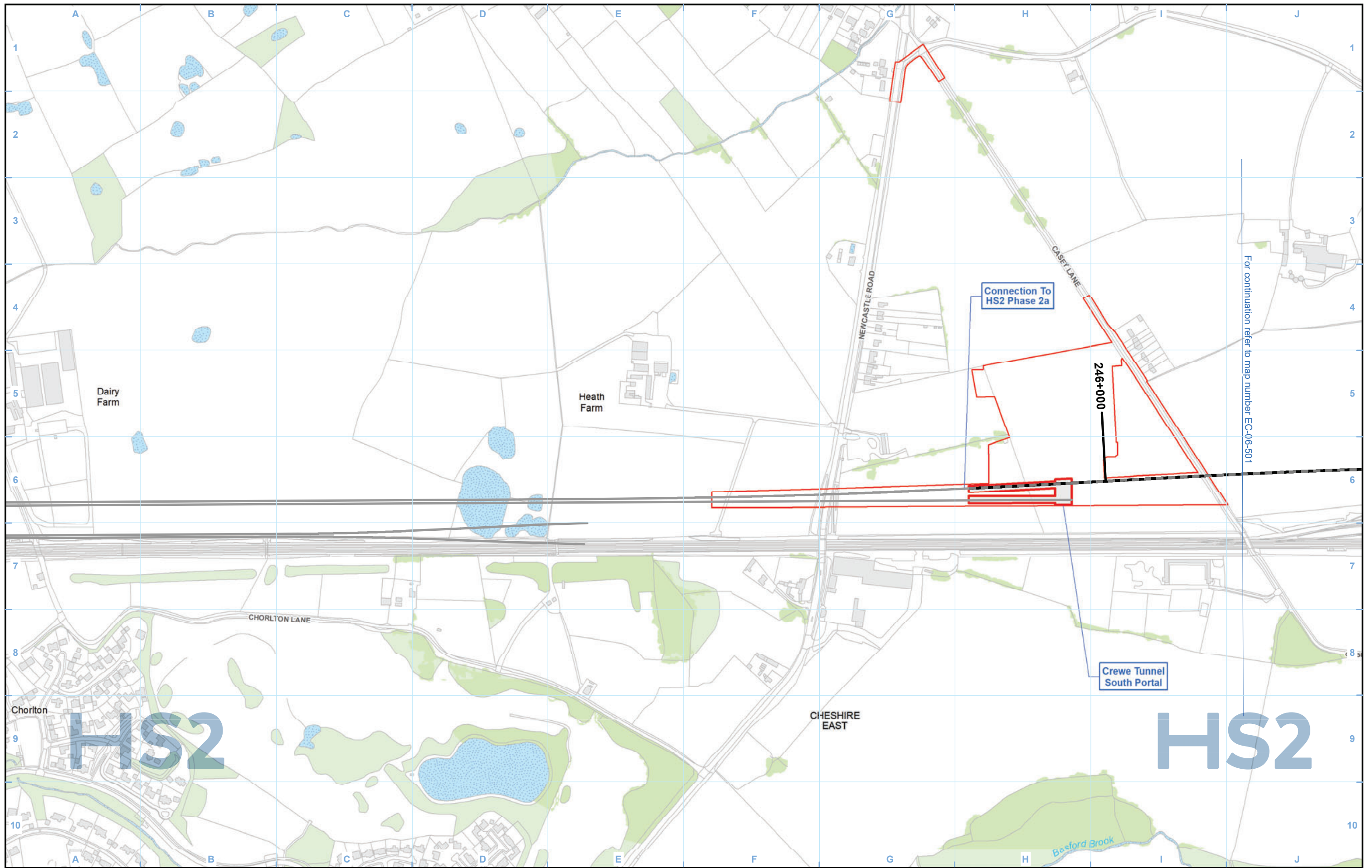
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For continuation refer to map number EC-06-501

Connection To HS2 Phase 2a

246+000

Crewe Tunnel South Portal

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

Map Number	EC-06-500
Map Name	Bat - Activity
Community Area MA01: Hough to Walley's Green	

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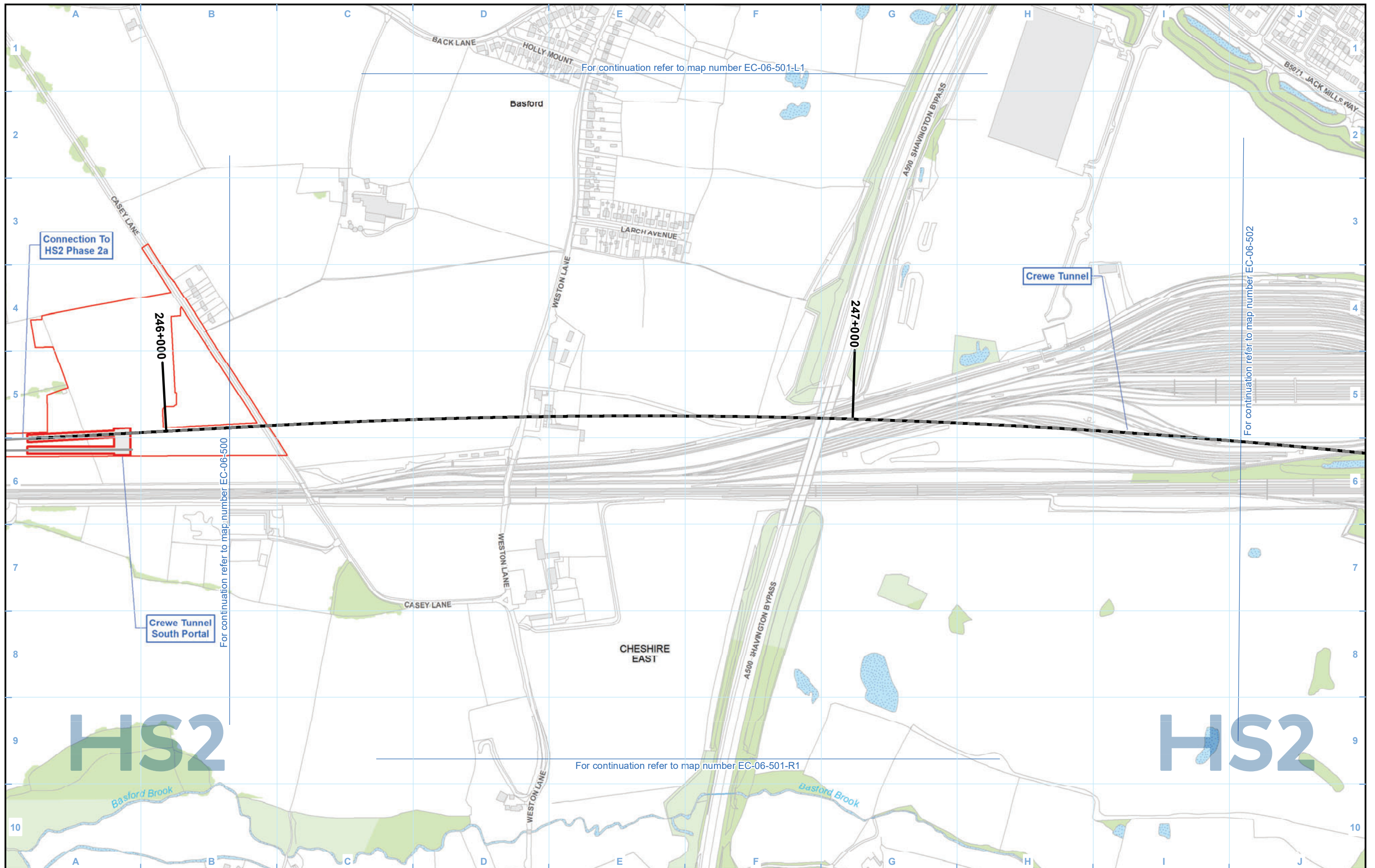
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003154-P01      Date: 12/08/21





For continuation refer to map number EC-06-501-L1

For continuation refer to map number EC-06-502

For continuation refer to map number EC-06-501-R1

**Legend**

Route in 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-06-501
Map Name	Bat - Activity
Community Area MA01: Hough to Walley's Green	

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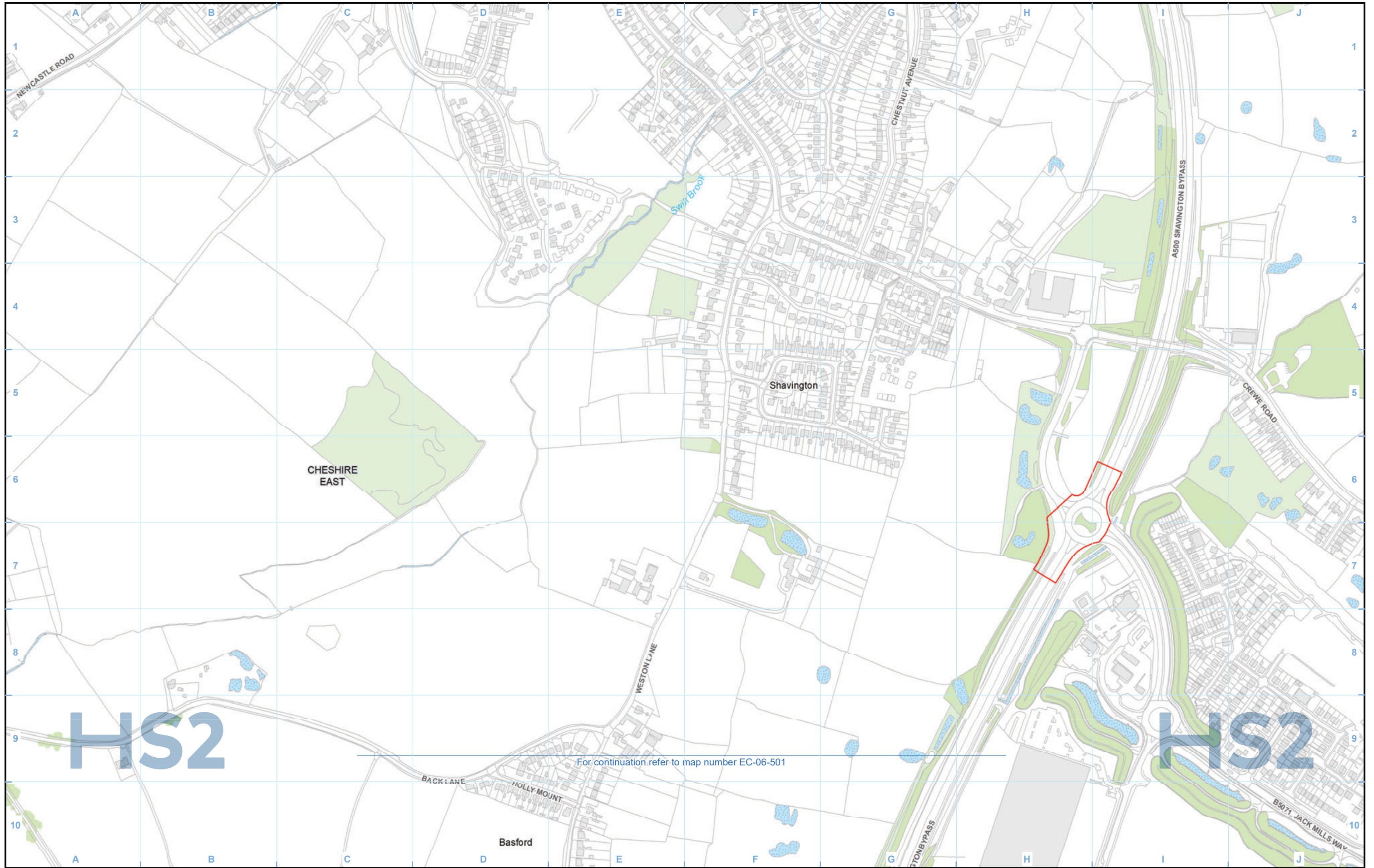
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001039-P01

Date: 12/08/21





**Legend**

Route in 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-06-501-L1
Map Name	Bat - Activity
Community Area MA01: Hough to Walley's Green	

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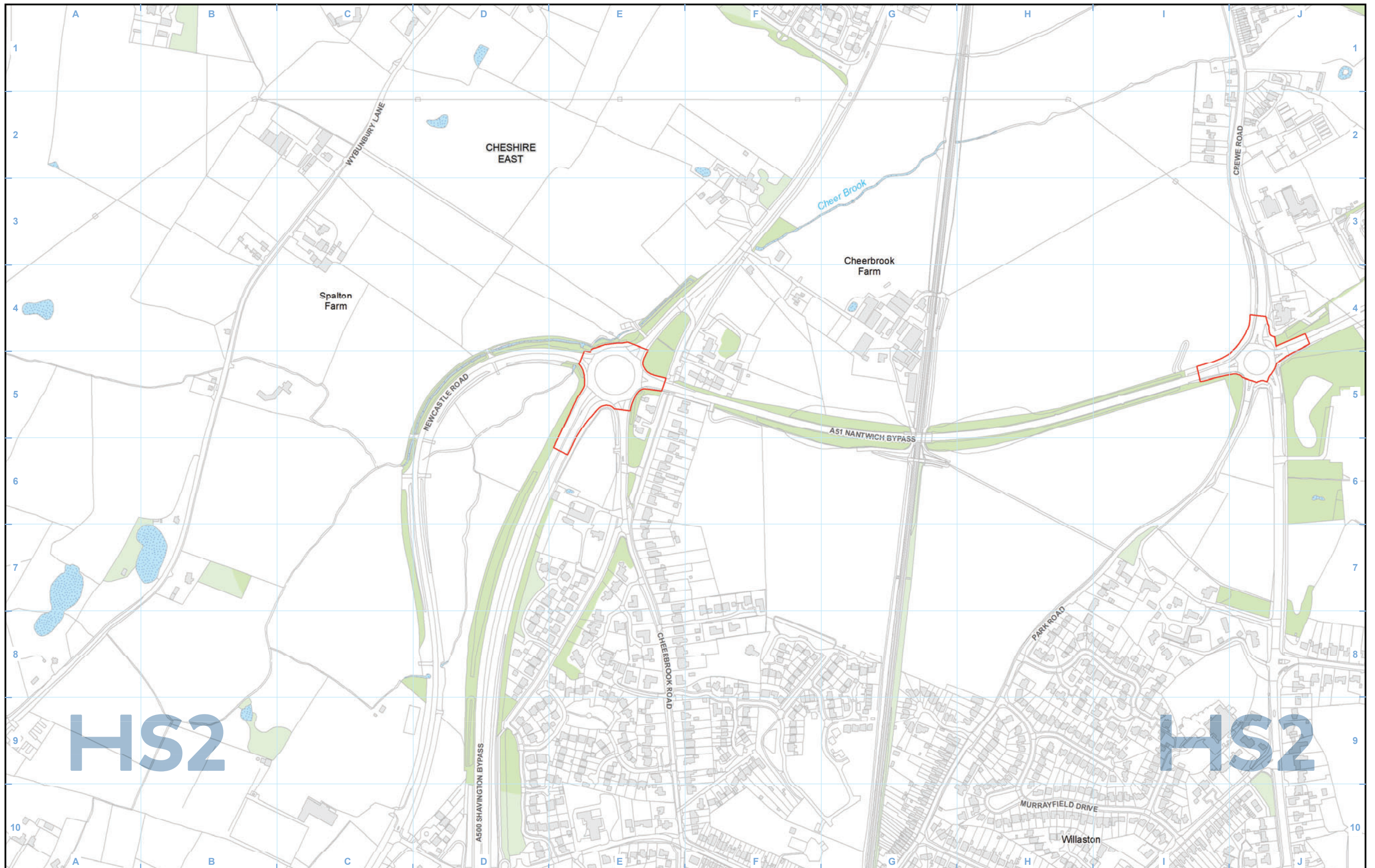
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003155-P01

Date: 12/08/21

For continuation refer to map number EC-06-501



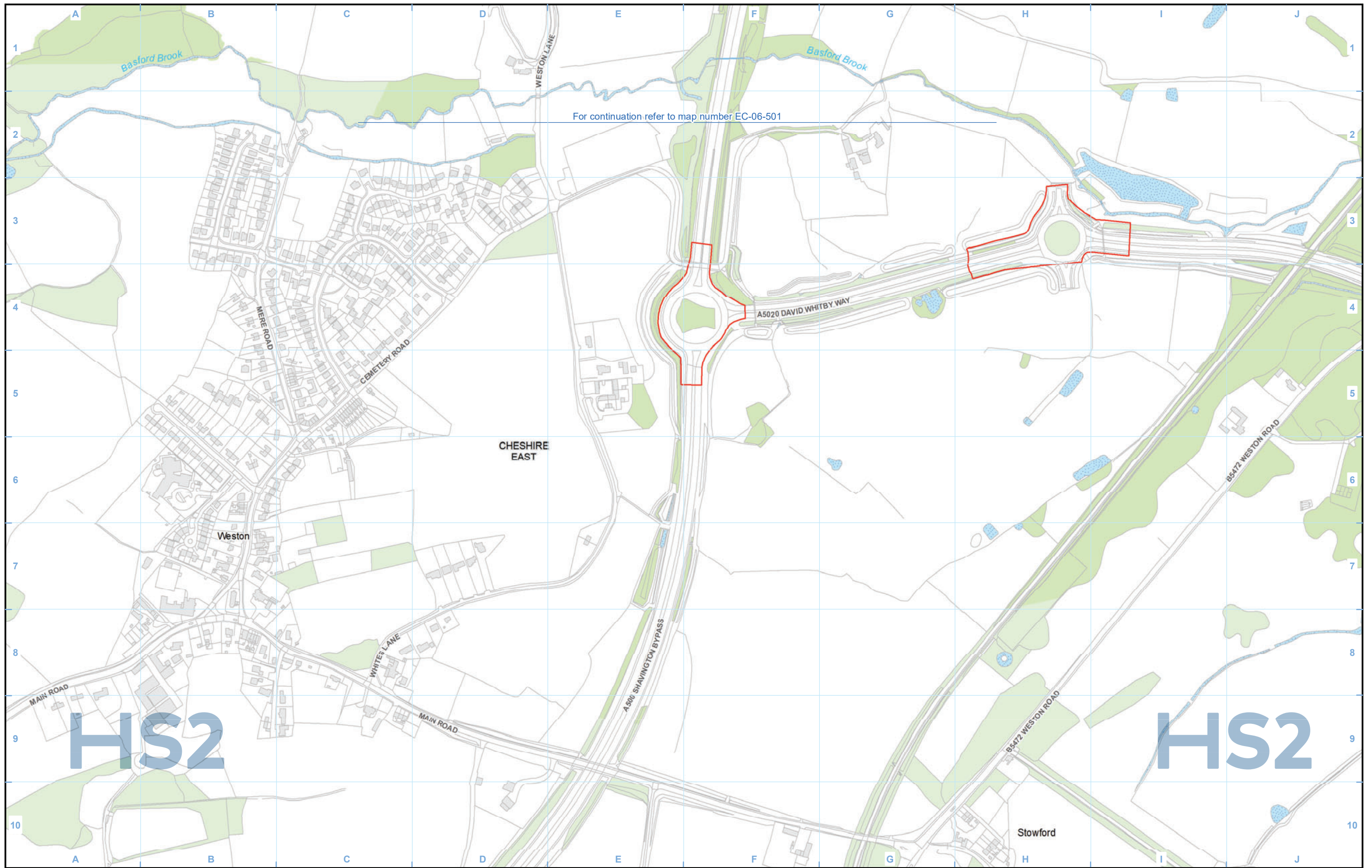


# HS2

# HS2

<b>Legend</b> <ul style="list-style-type: none"> <li>Route in 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>		<b>Map Number</b> EC-06-501-L2  <b>Map Name</b> Bat - Activity  <b>Community Area MA01:</b> Hough to Walley's Green	<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 2020          OS 100049190</p> <p>Scale at A3: 1:5,000</p> <p>Doc Number: 2DE01-MWJ-EV-MAP-M000-003156-P01</p> <p>Date: 12/08/21</p>
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For continuation refer to map number EC-06-501

Legend		

Map Number	EC-06-501-R1
Map Name	Bat - Activity
Community Area MA01: Hough to Walley's Green	

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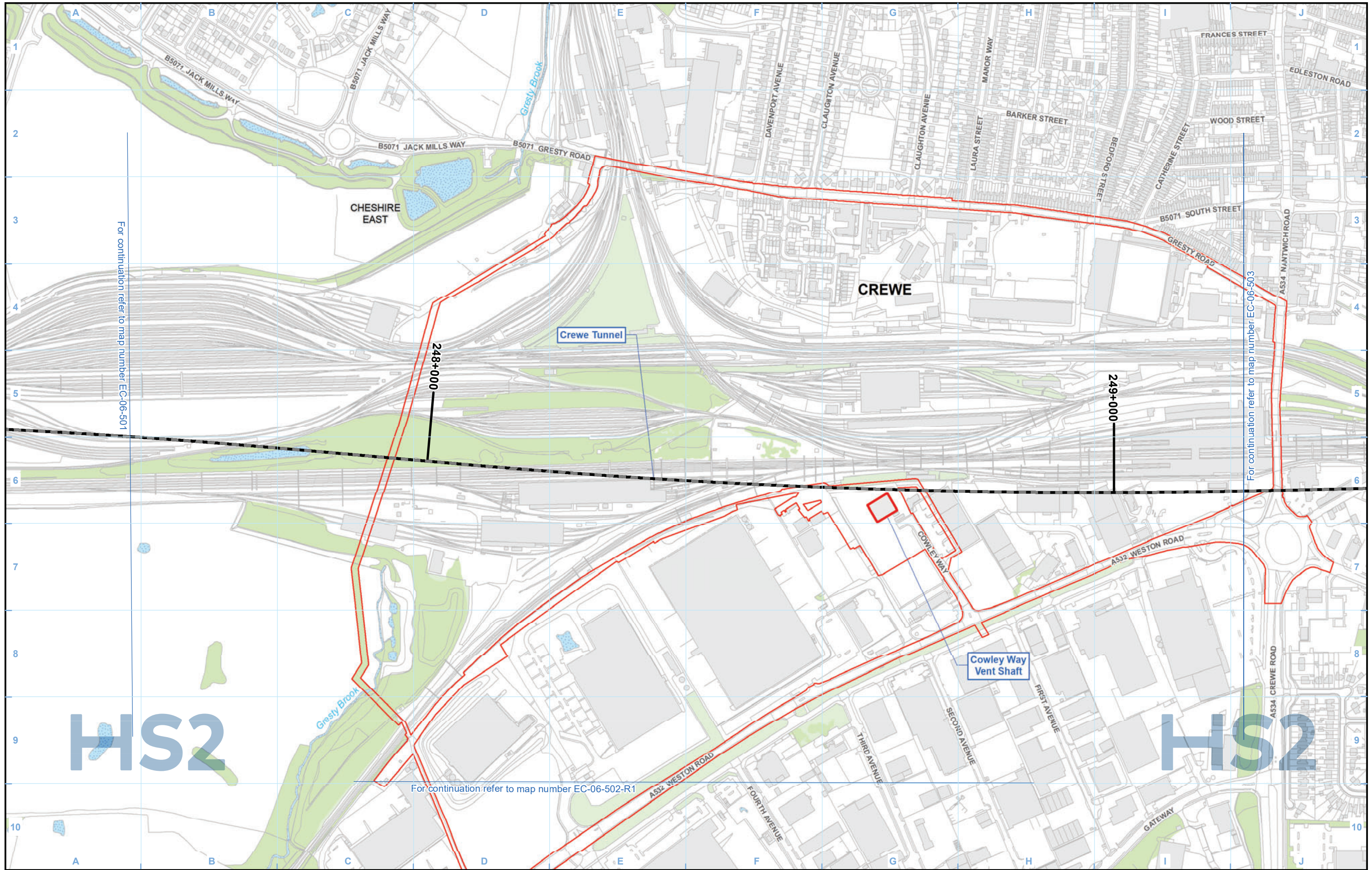
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Metres

Date: 12/08/21





For continuation refer to map number EC-06-501

For continuation refer to map number EC-06-503

For continuation refer to map number EC-06-502-R1

- Legend**
- Route in 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-06-502
Map Name	Bat - Activity
Community Area MA01: Hough to Walley's Green	

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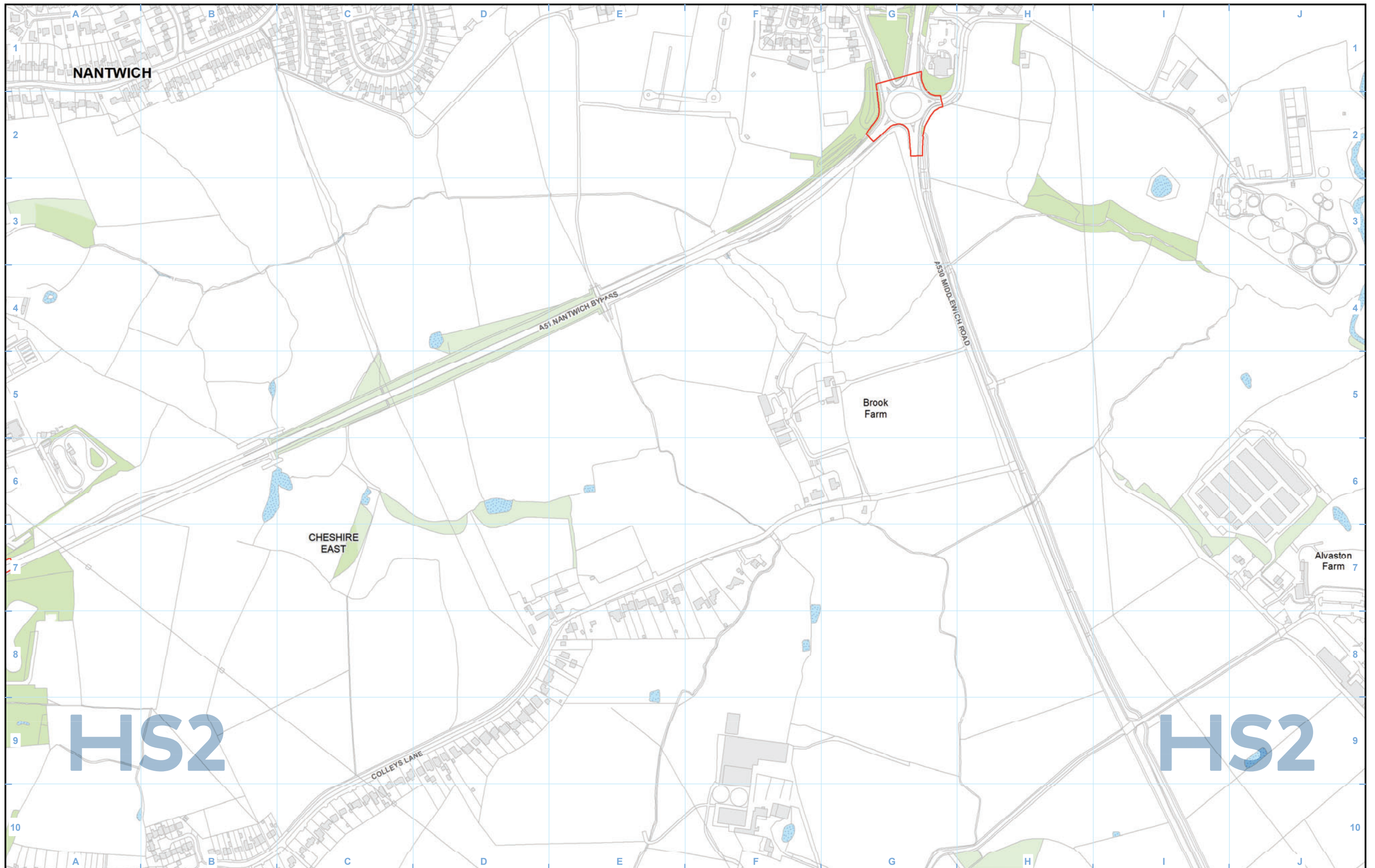
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**Legend**

- Route in 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-06-502-L1
Map Name	Bat - Activity
	Community Area MA01: Hough to Walley's Green

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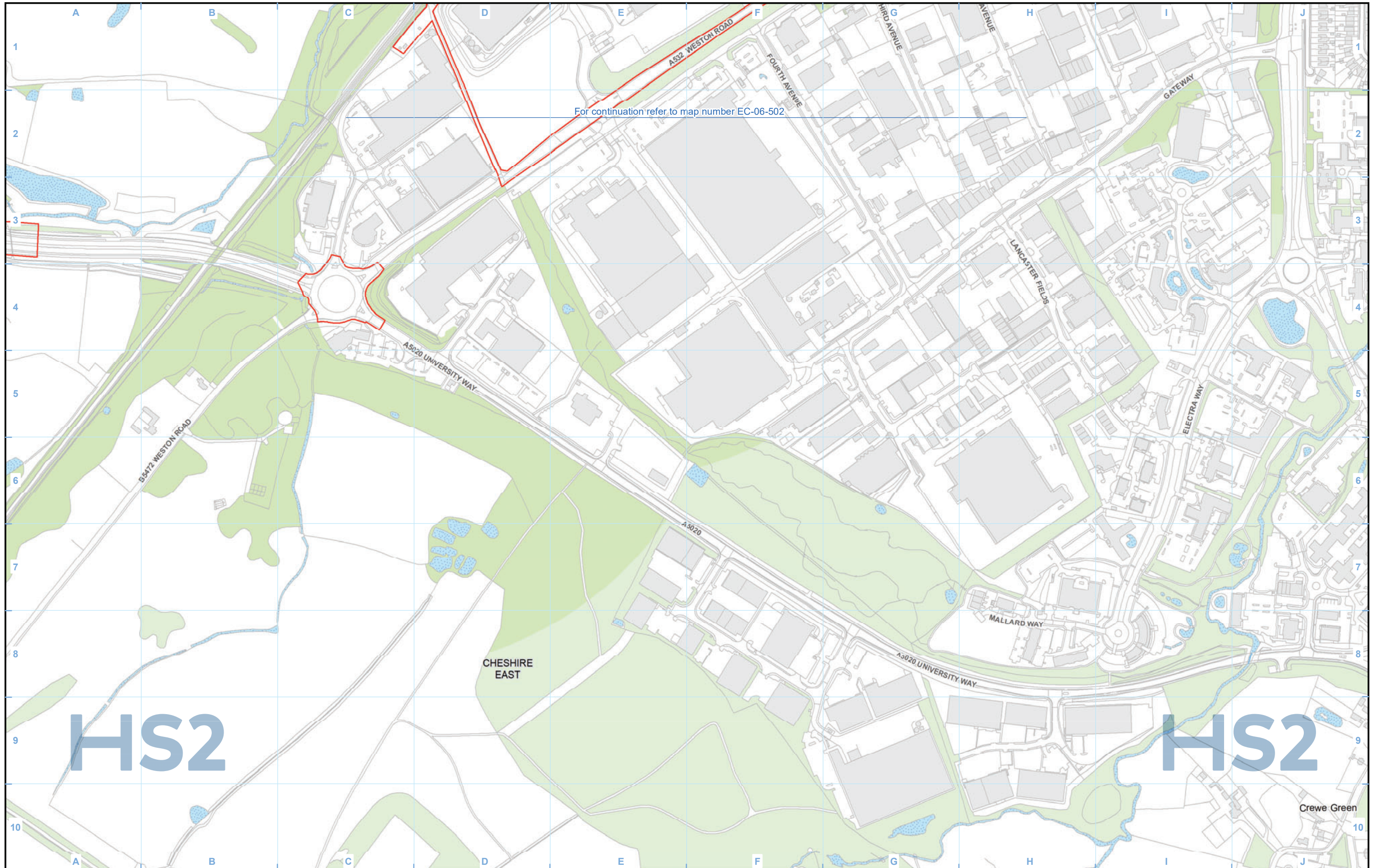
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**Date:** 12/08/21



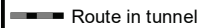
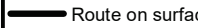
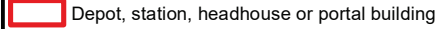

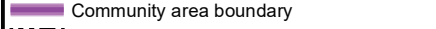
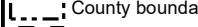
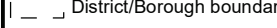

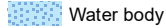
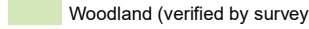

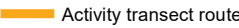
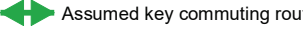
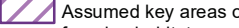


For continuation refer to map number EC-06-502


# HS2

# HS2


Crewe Green

- Legend**
-  Route in 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-06-502-R1
Map Name	Bat - Activity
Community Area MA01: Hough to Walley's Green	



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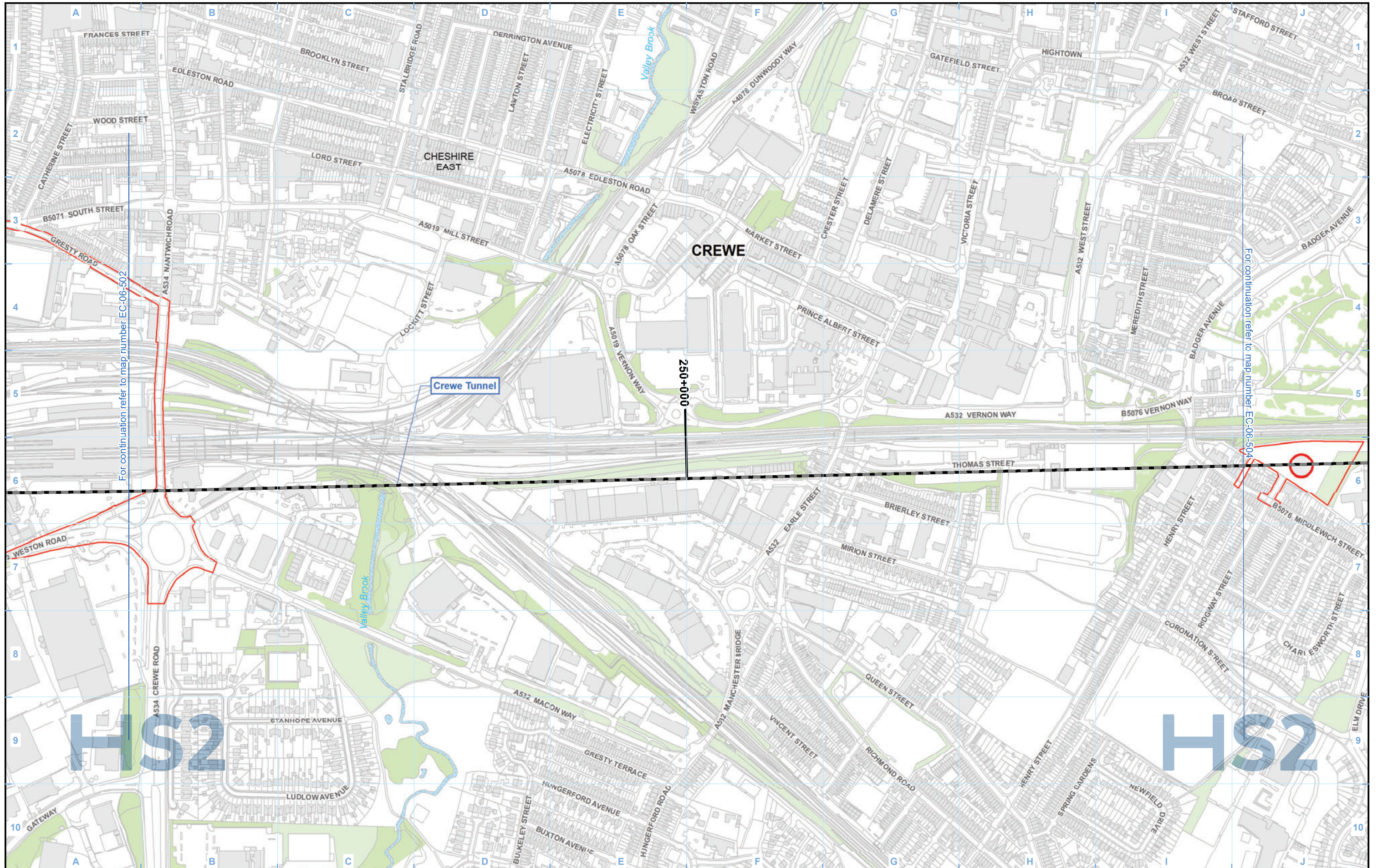
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Metres

Date: 12/08/21





For continuation refer to map number EC-06-502

For continuation refer to map number EC-06-504

Crewe Tunnel

250+000

HS2

HS2

- Legend**
- Route in 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-06-503
Map Name	Bat - Activity
	Community Area MA01: Hough to Walley's Green

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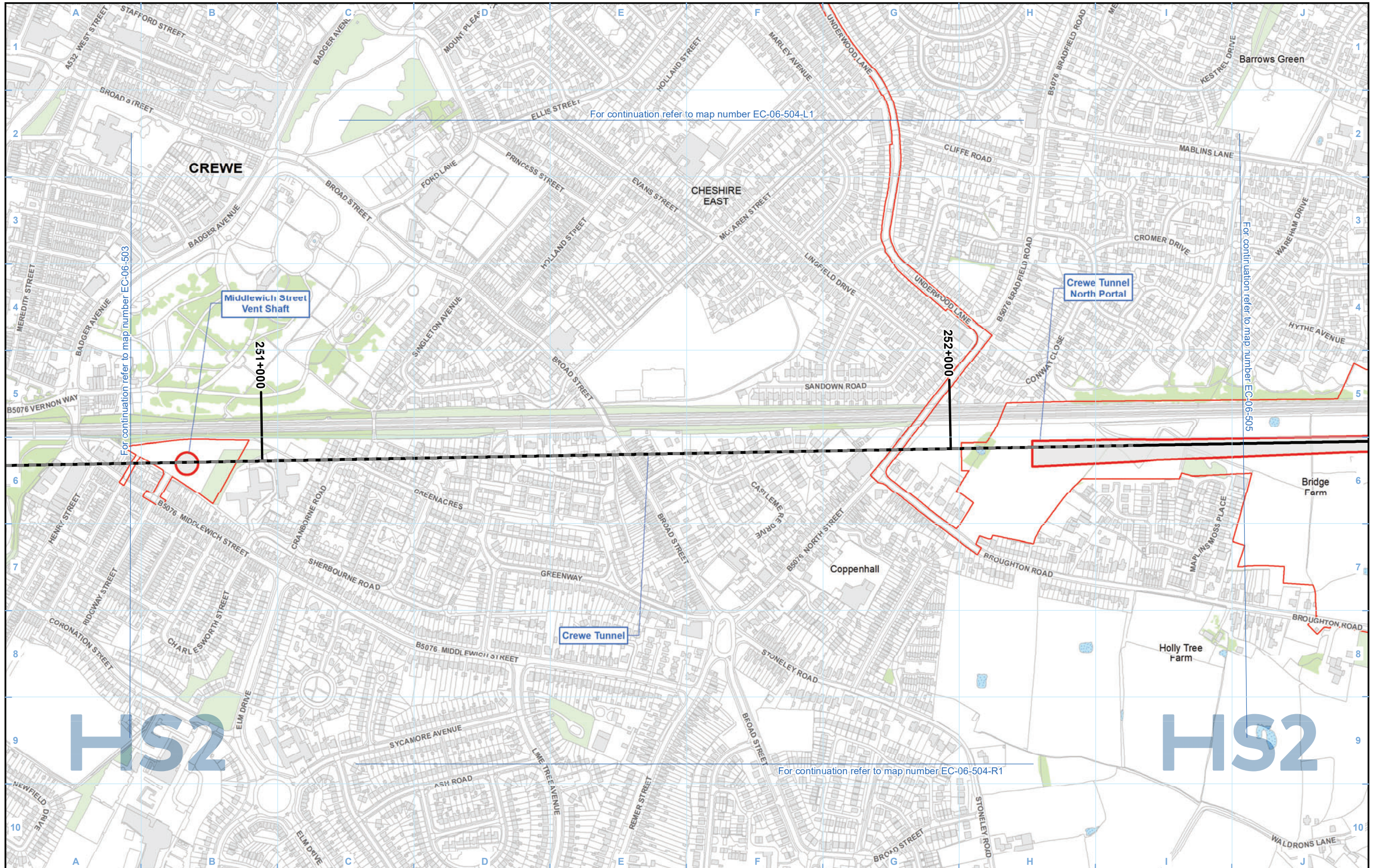
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001041-P01

Date: 12/08/21





**Legend**

- Route in tunnel
- 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-06-504
Map Name	Bat - Activity
	Community Area MA01: Hough to Walley's Green

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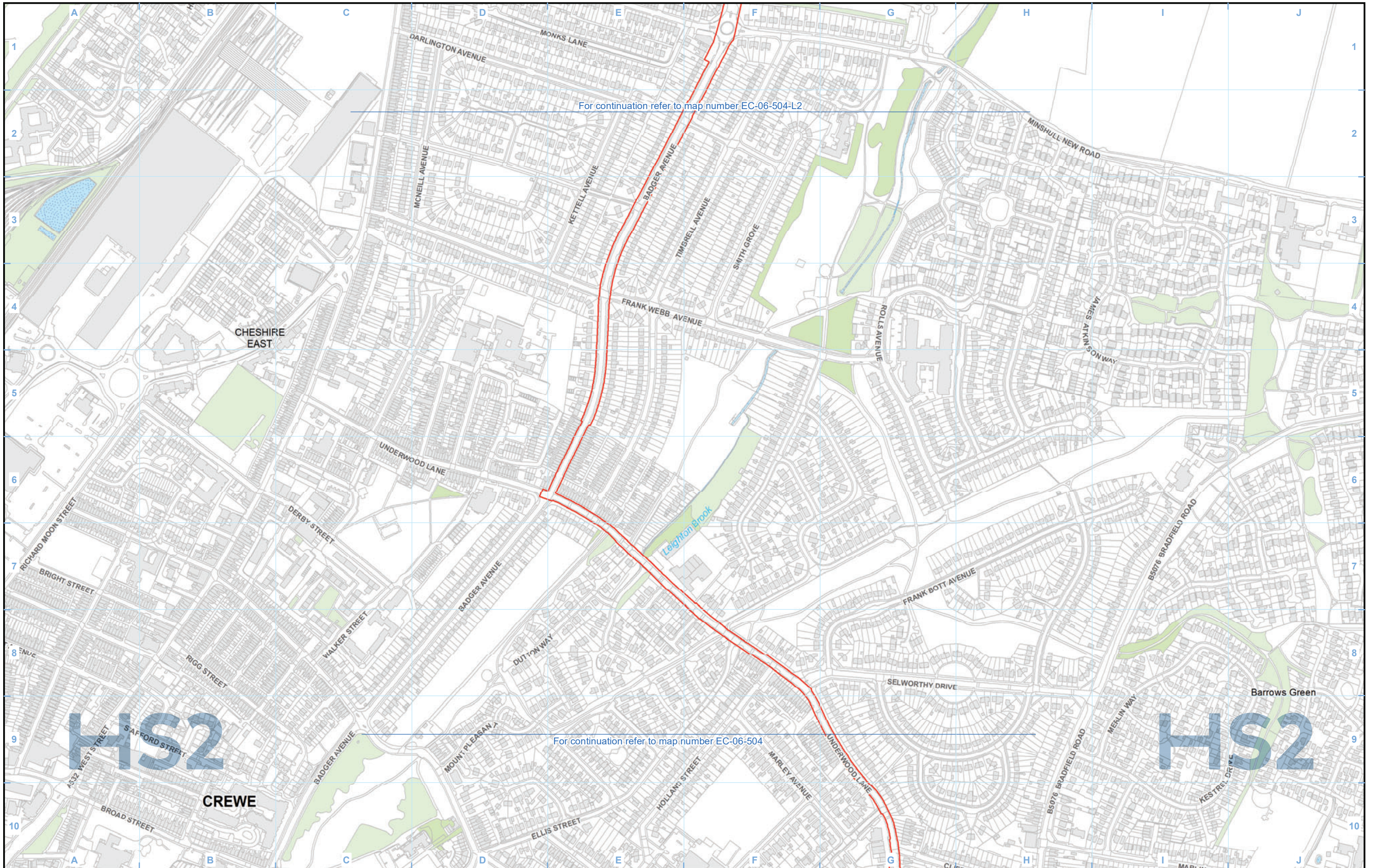
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For continuation refer to map number EC-06-504-L2

For continuation refer to map number EC-06-504

**Legend**

- Route in 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-06-504-L1

Map Name: Bat - Activity

Community Area MA01:  
Hough to Walley's Green

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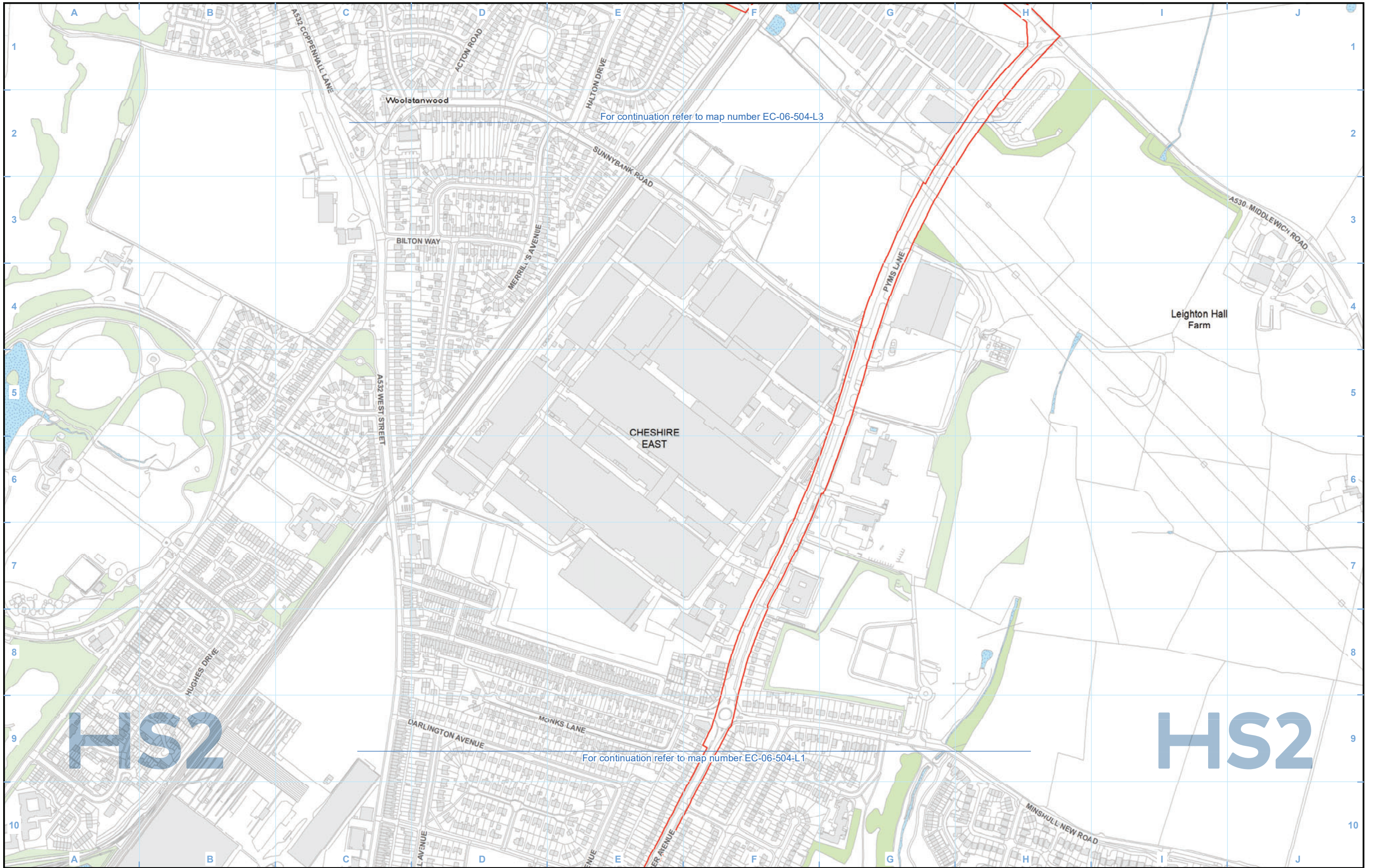
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- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Water 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-06-504-L2
Map Name	Bat - Activity
	Community Area MA01: Hough to Walley's Green

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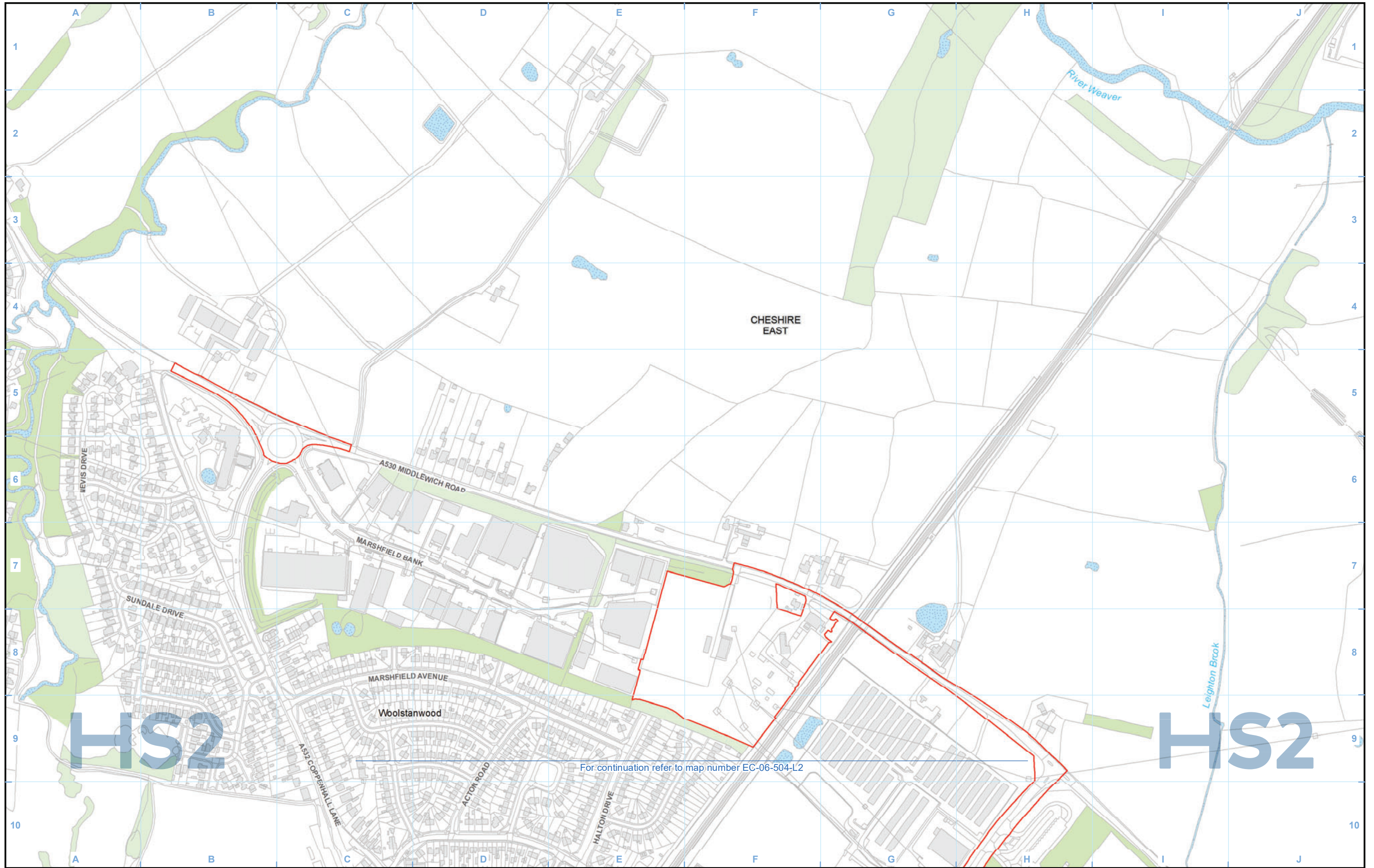
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003161-P01

Date: 12/08/21





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

Map Number	EC-06-504-L3
Map Name	Bat - Activity
Community Area MA01: Hough to Walley's Green	

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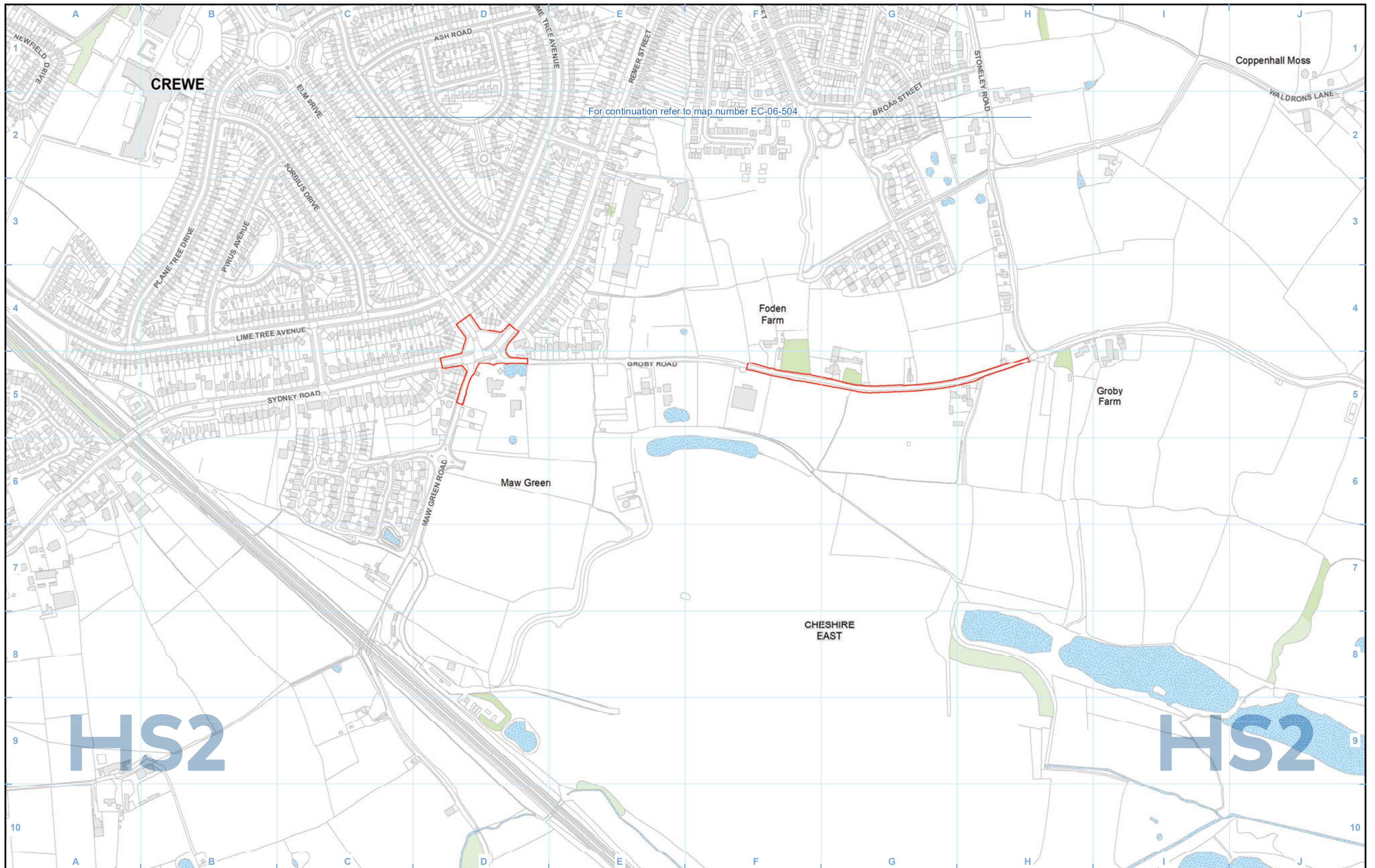
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For continuation refer to map number EC-06-504

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

Map Number	EC-06-504-R1
Map Name	Bat - Activity
Community Area MA01: Hough to Walley's Green	

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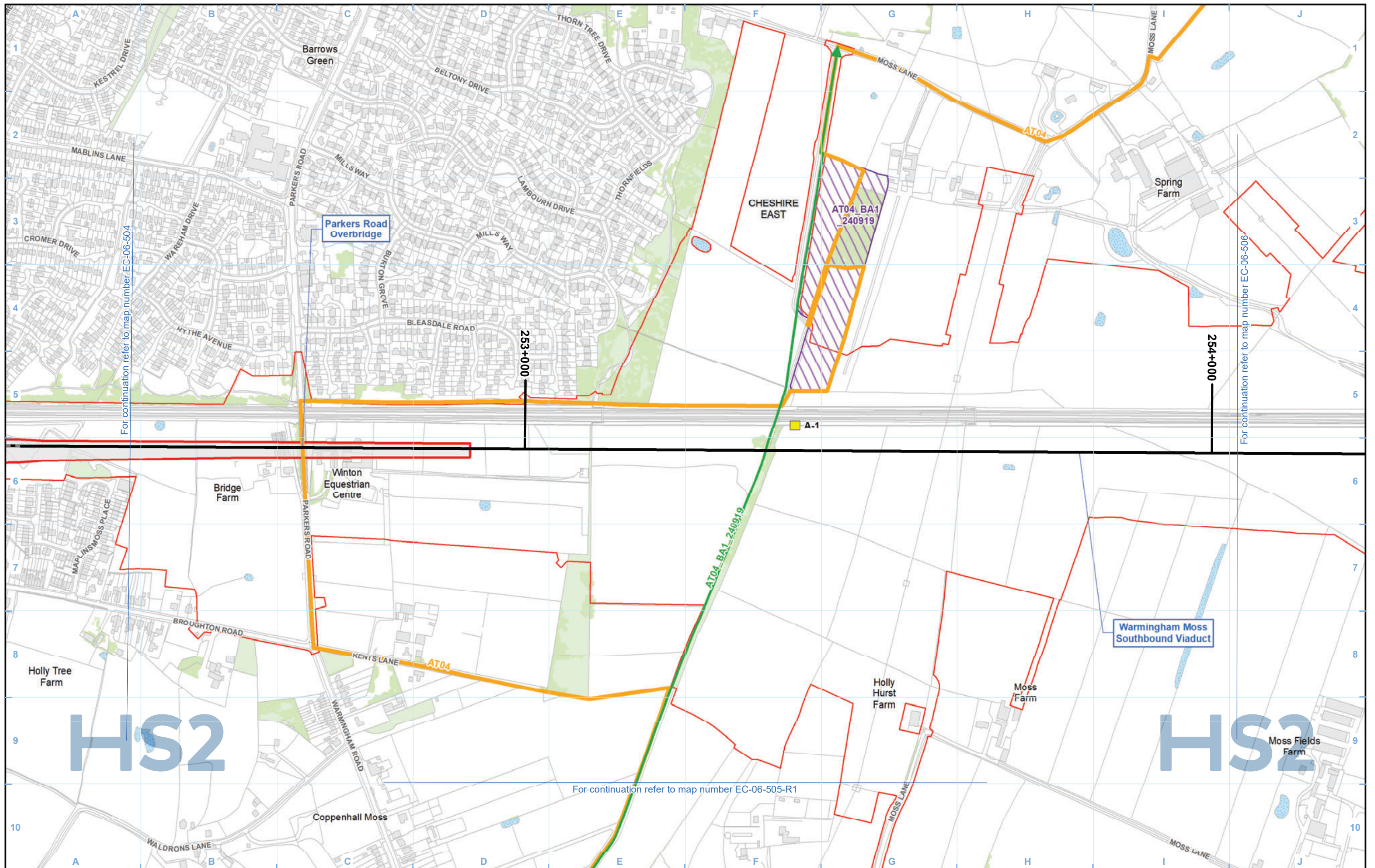
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For continuation refer to map number EC-06-504

For continuation refer to map number EC-06-506

For continuation refer to map number EC-06-505-R1

Legend		

Map Number	EC-06-505
Map Name	Bat - Activity
Community Area MA01: Hough to Walley's Green	

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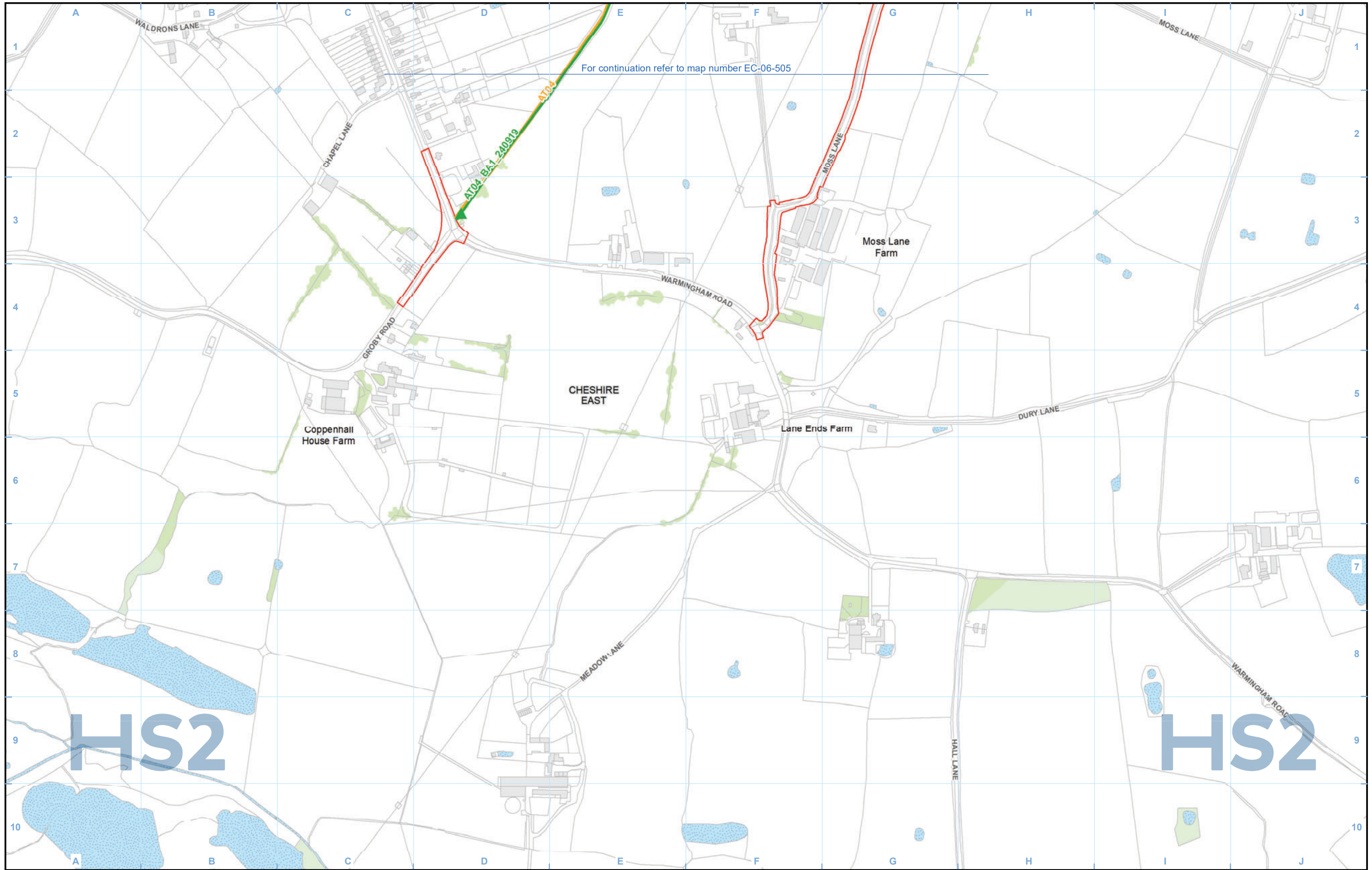
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For continuation refer to map number EC-06-505

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

Map Number	EC-06-505-R1
Map Name	Bat - Activity
Community Area MA01: Hough to Walley's Green	

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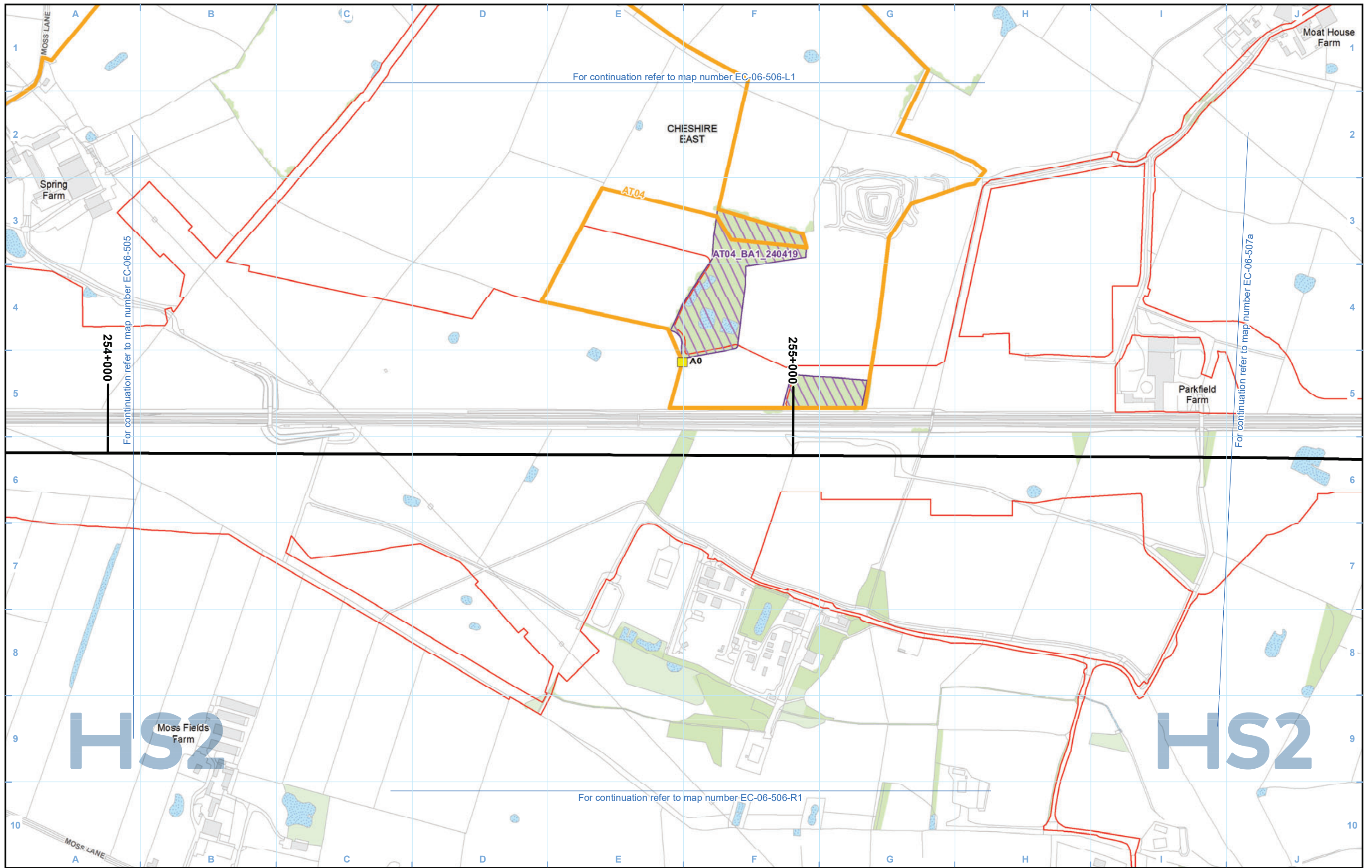
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Scale at A3: 1:5,000

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Metres

Date: 12/08/21

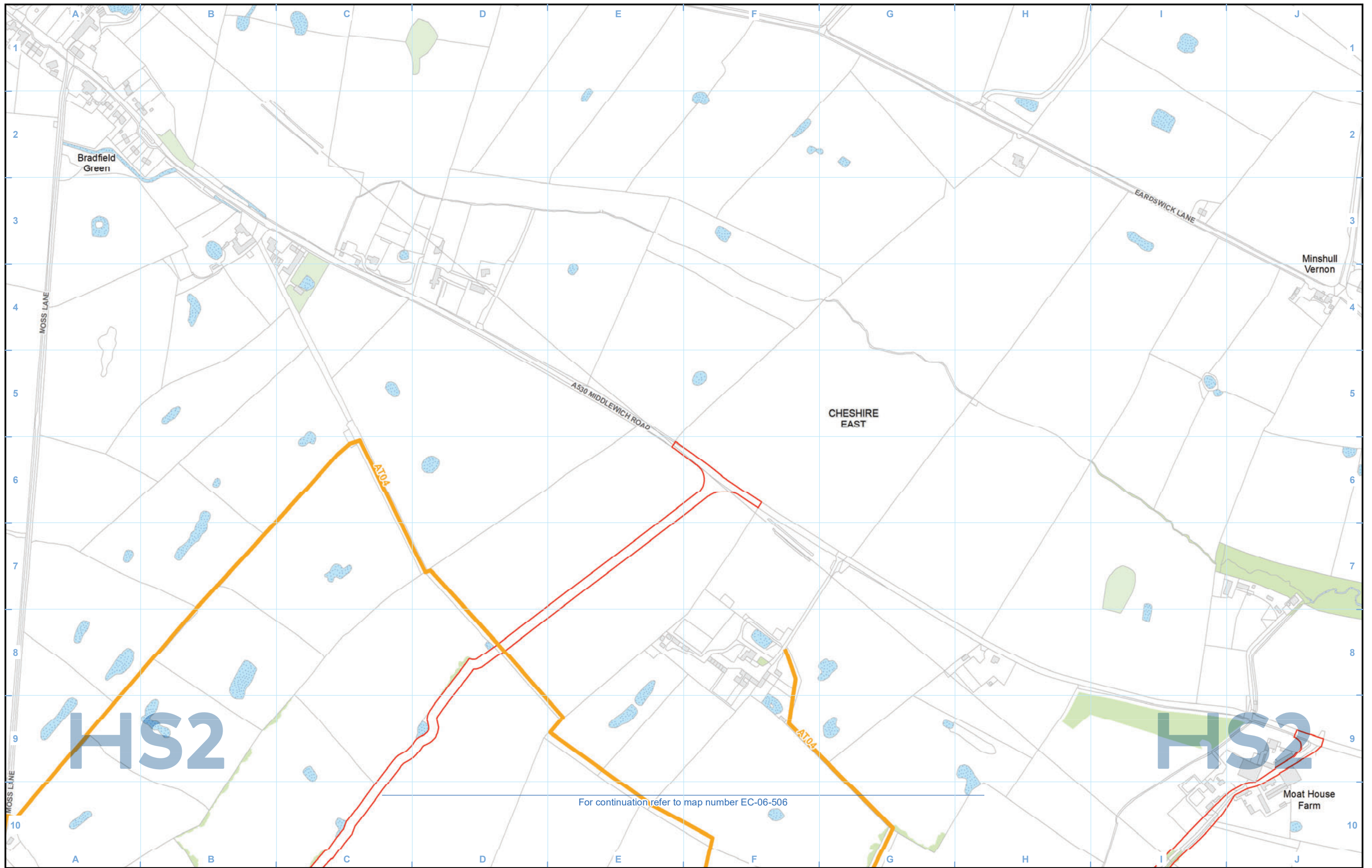




- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Water body
  - Woodland (verified by survey)
  - Bat activity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

Map Number <b>EC-06-506</b>	<b>HS2</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>	
Community Area MA01: Hough to Walley's Green	<p style="text-align: right;">Scale at A3: 1:5,000</p> <p style="text-align: right; font-size: small;">© Crown copyright and database rights 2020 OS 100049190</p>
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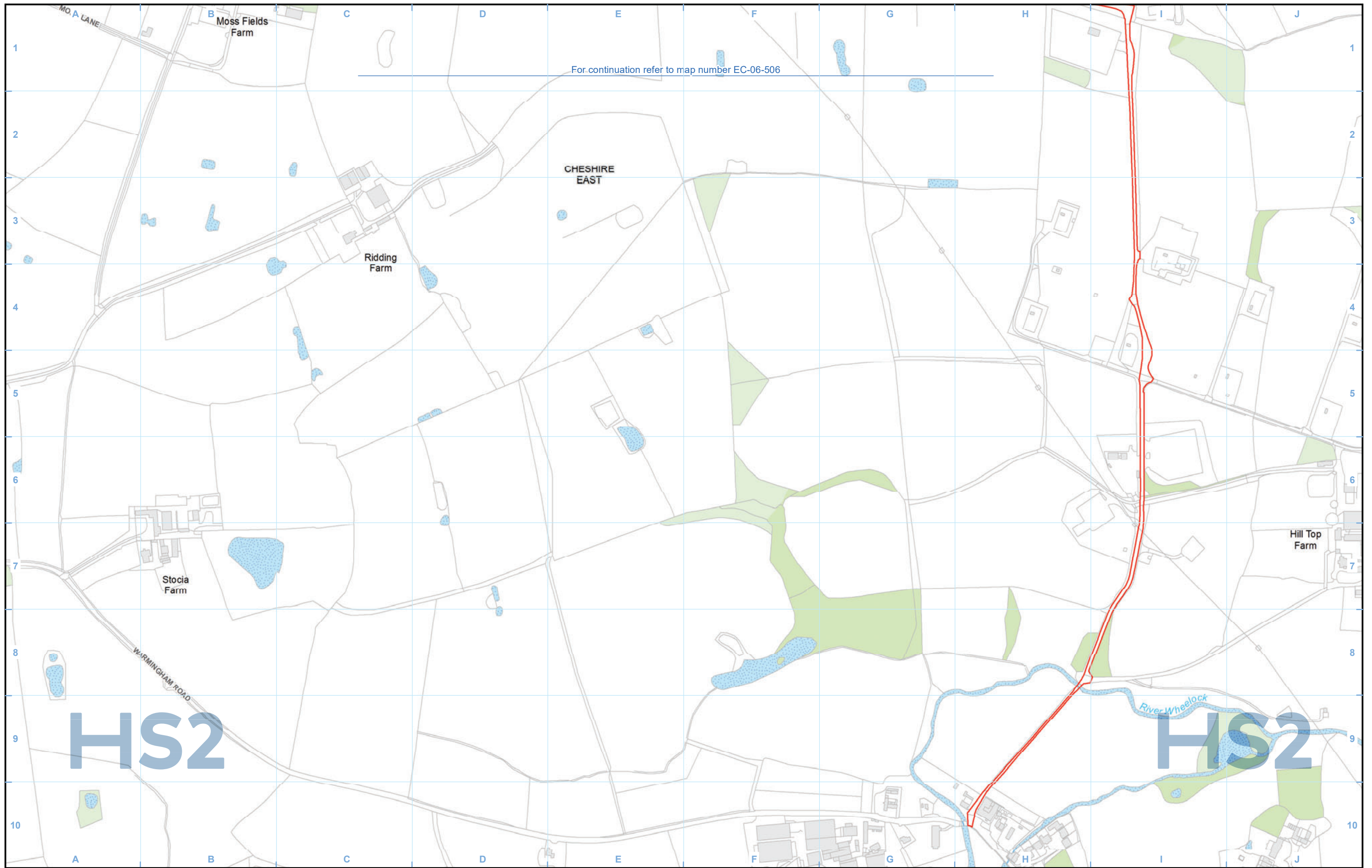




For continuation refer to map number EC-06-506

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in 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-06-506-L1</p> <p>Map Name: Bat - Activity</p> <p>Community Area MA01: Hough to Walley's Green</p>	<p><b>HS2</b></p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2020 OS 100049190</p> <p>Doc Number: 2DE01-MWJ-EV-MAP-M000-002739-P01</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>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 Metres</p> <p>Date: 12/08/21</p>
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Legend			
	Route in tunnel		Bat activity static detector location
	Route on surface		Activity transect route
	Depot, station, headhouse or portal building		Assumed key commuting route
	Land potentially required during construction		Assumed key areas of foraging habitat
	Community area boundary		
	County boundary		
	District/Borough boundary		
	Watercourse		
	Water body		
	Woodland (verified by survey)		

Map Number	EC-06-506-R1
Map Name	Bat - Activity
	Community Area MA01: Hough to Walley's Green

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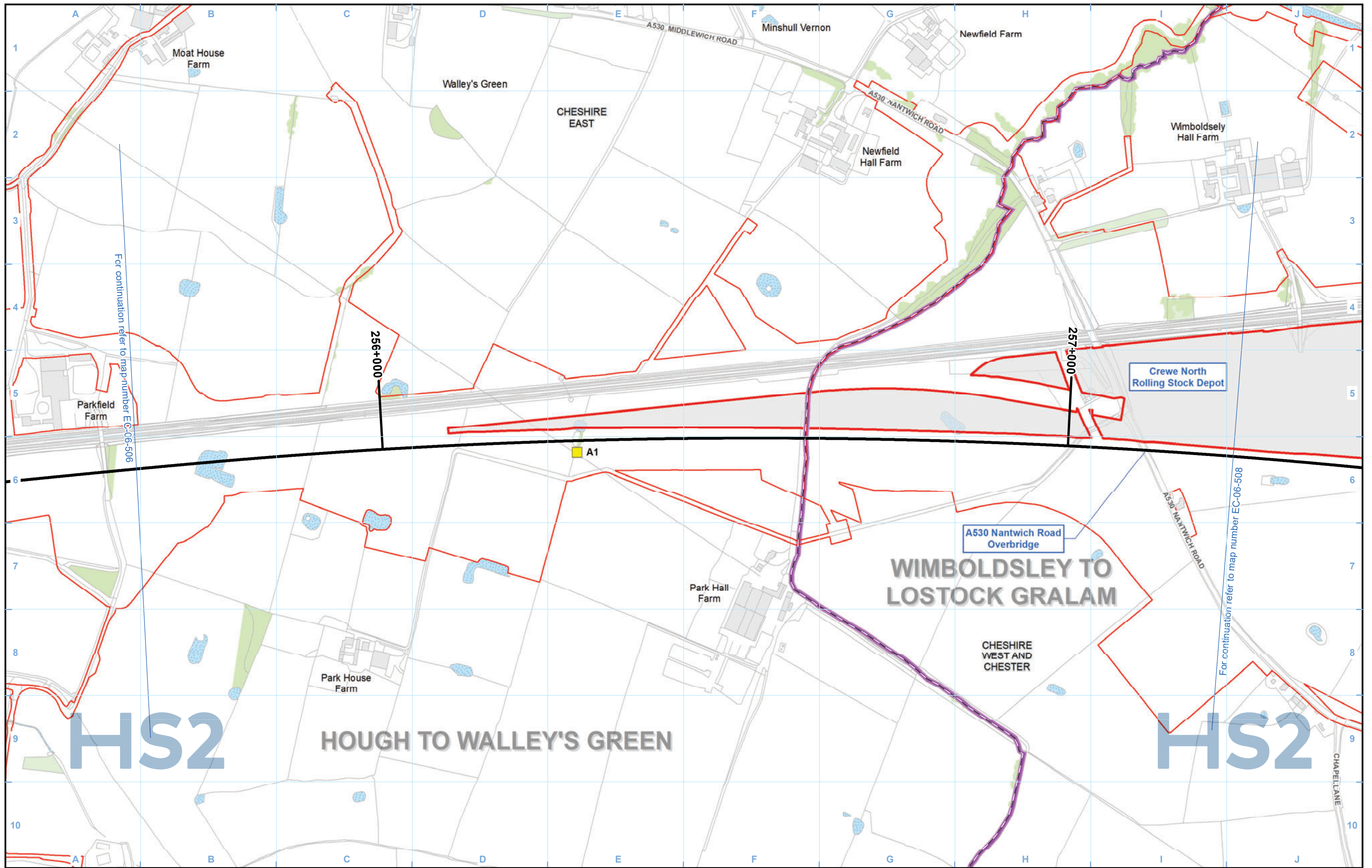
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Scale at A3: 1:5,000

0 50 100 150 200 Metres

Doc Number: 2DE01-MWJ-EV-MAP-M000-003164-P01 Date: 12/08/21





- Legend**
- Route in 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-06-507a
Map Name	Bat - Activity
Community Area MA01: Hough to Walley's Green	

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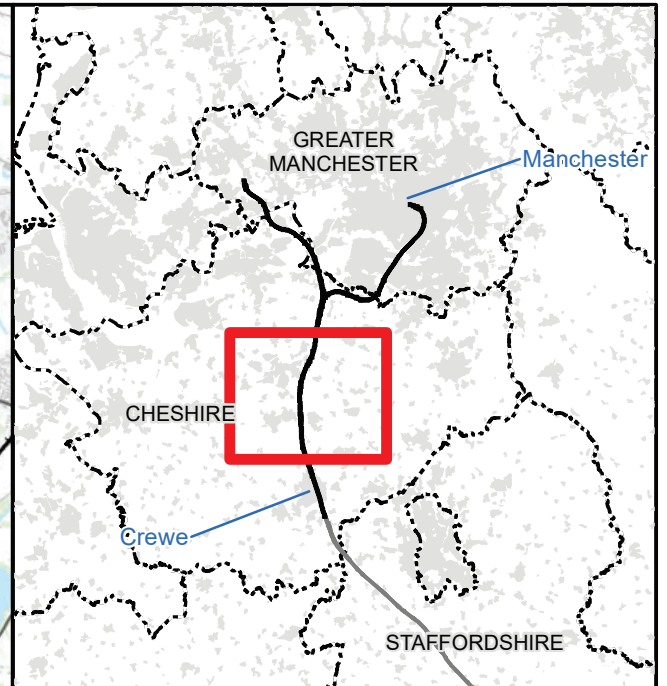
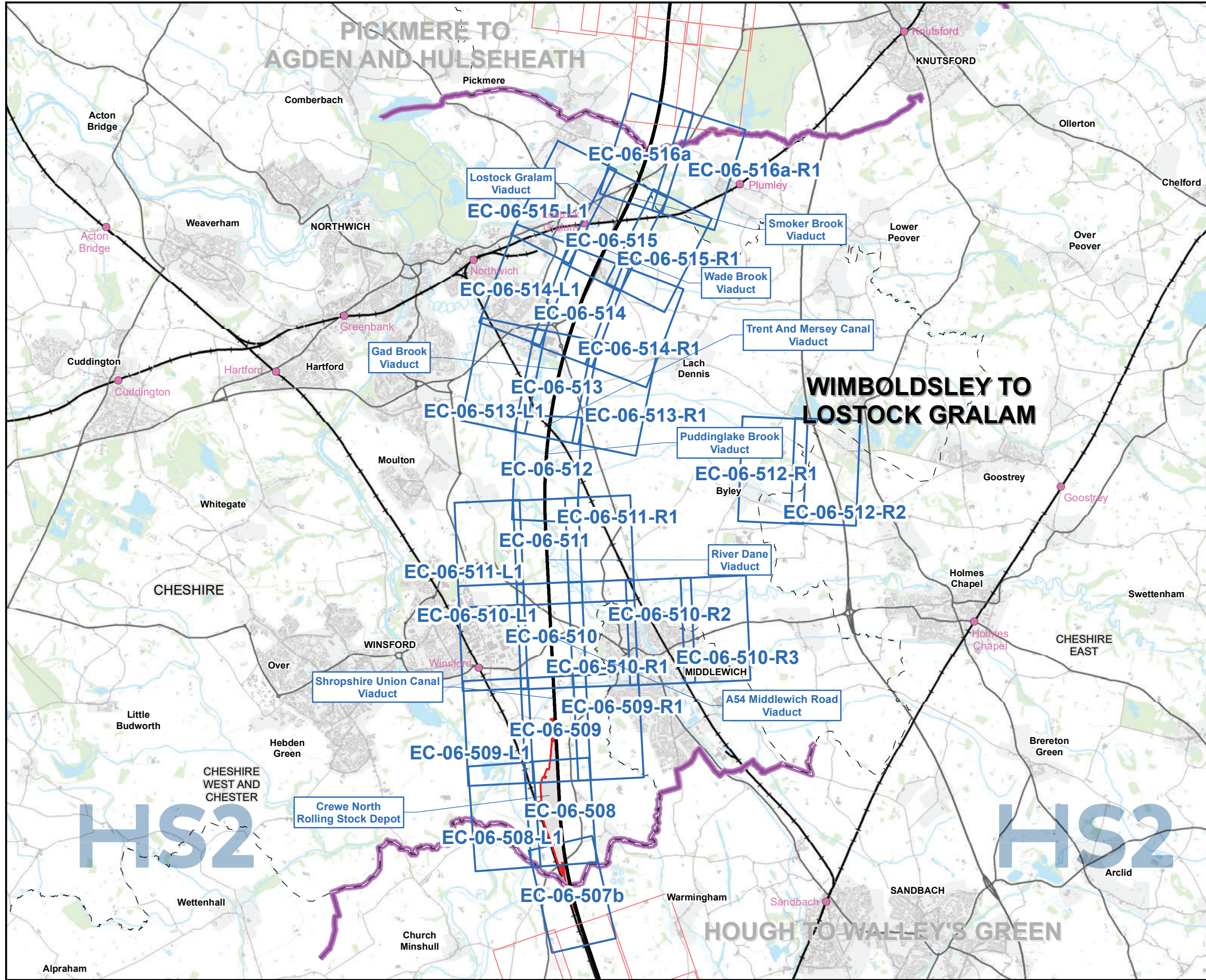
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Date: 12/08/21



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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 sheet included in this community area
  - Map sheet not included in this community area

Map Number EC-06-INDEX-MA02

Map Name  
**Index Map of:  
Bat - Activity**

Community Area MA02:  
Wimboldsley to Lostock Gralam

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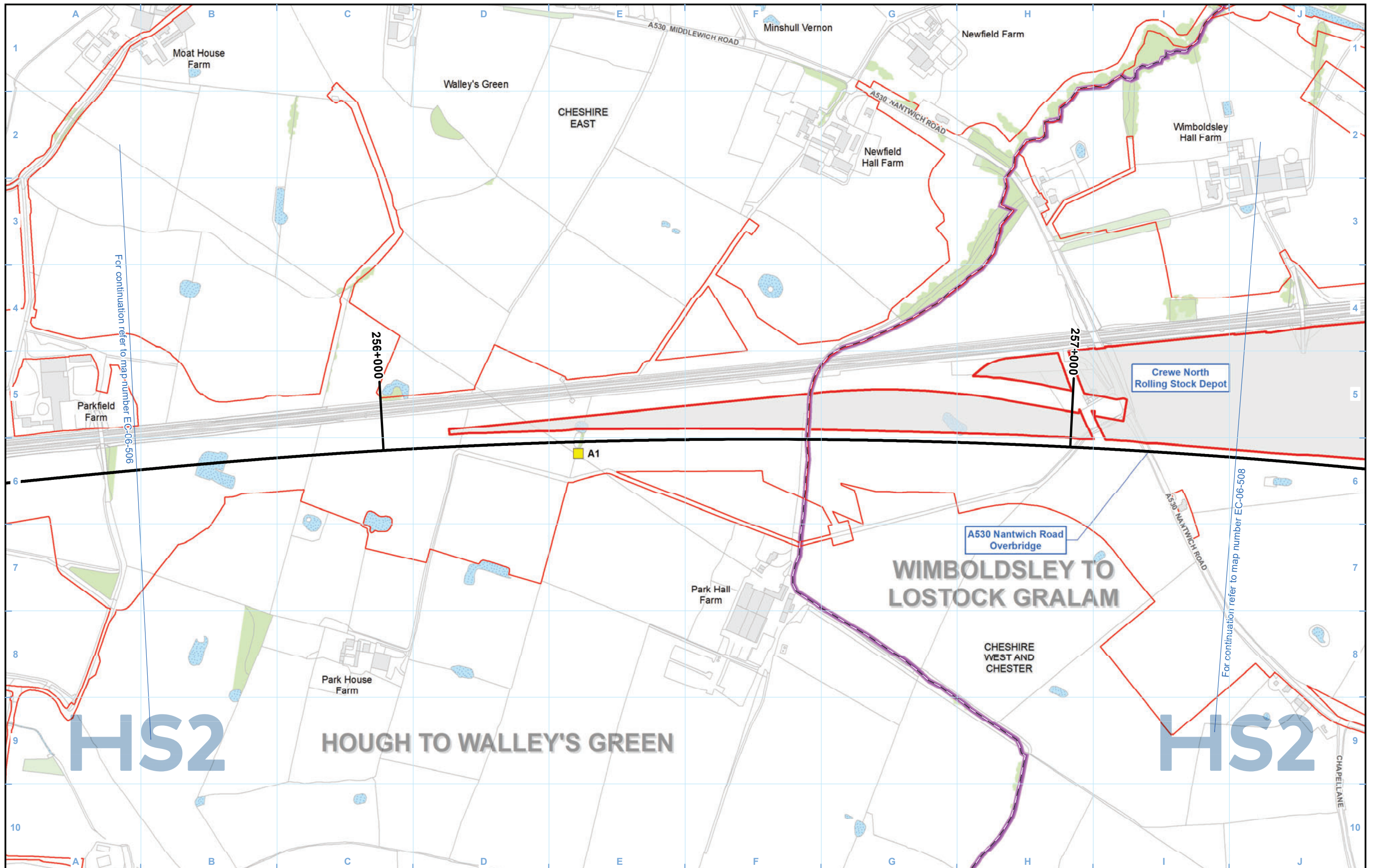
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001102-P01

Date: 12/08/21





- Legend**
- Route in 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-06-507b
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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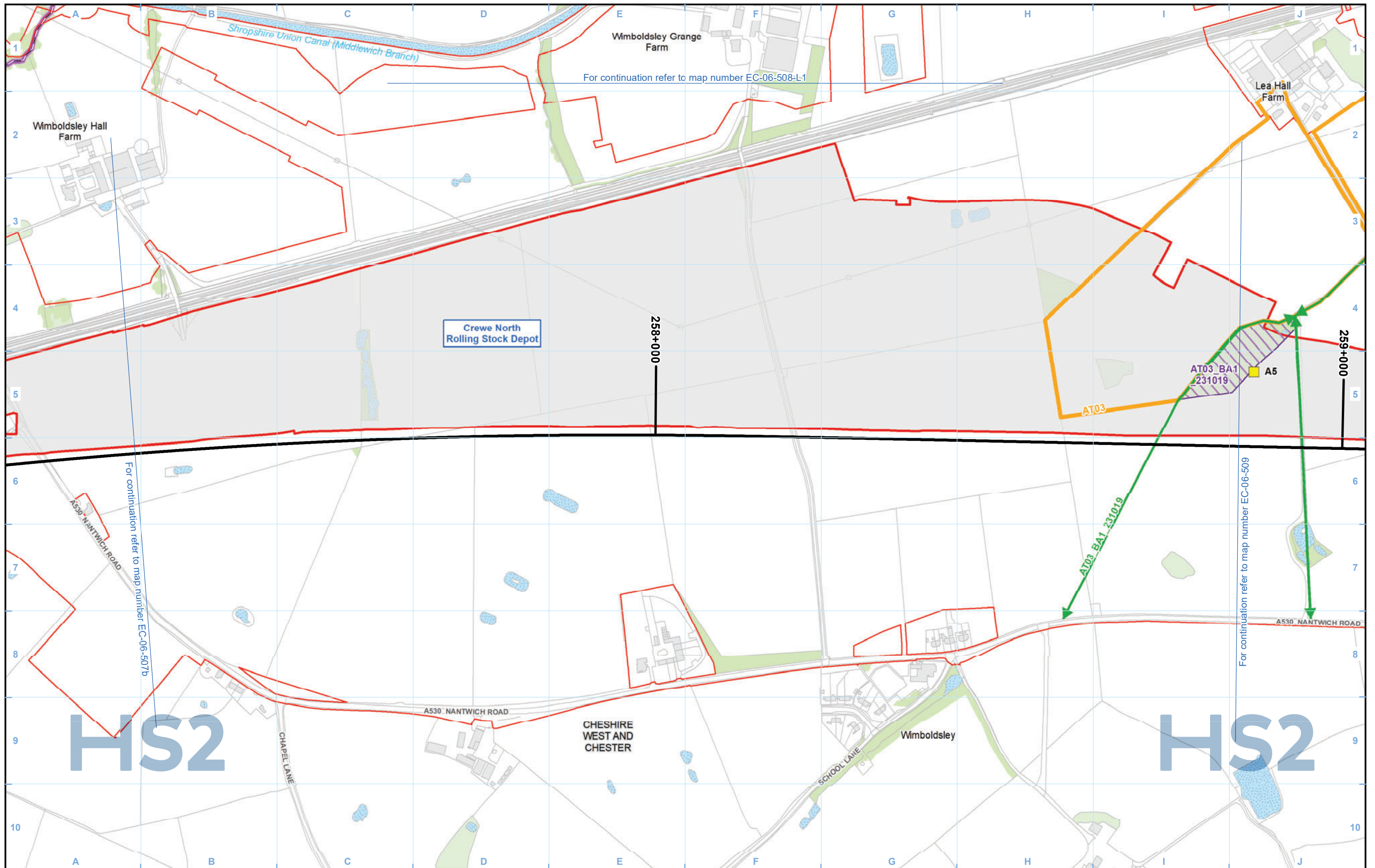
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001046-P01

Date: 12/08/21





- Legend**
- Route in 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-06-508
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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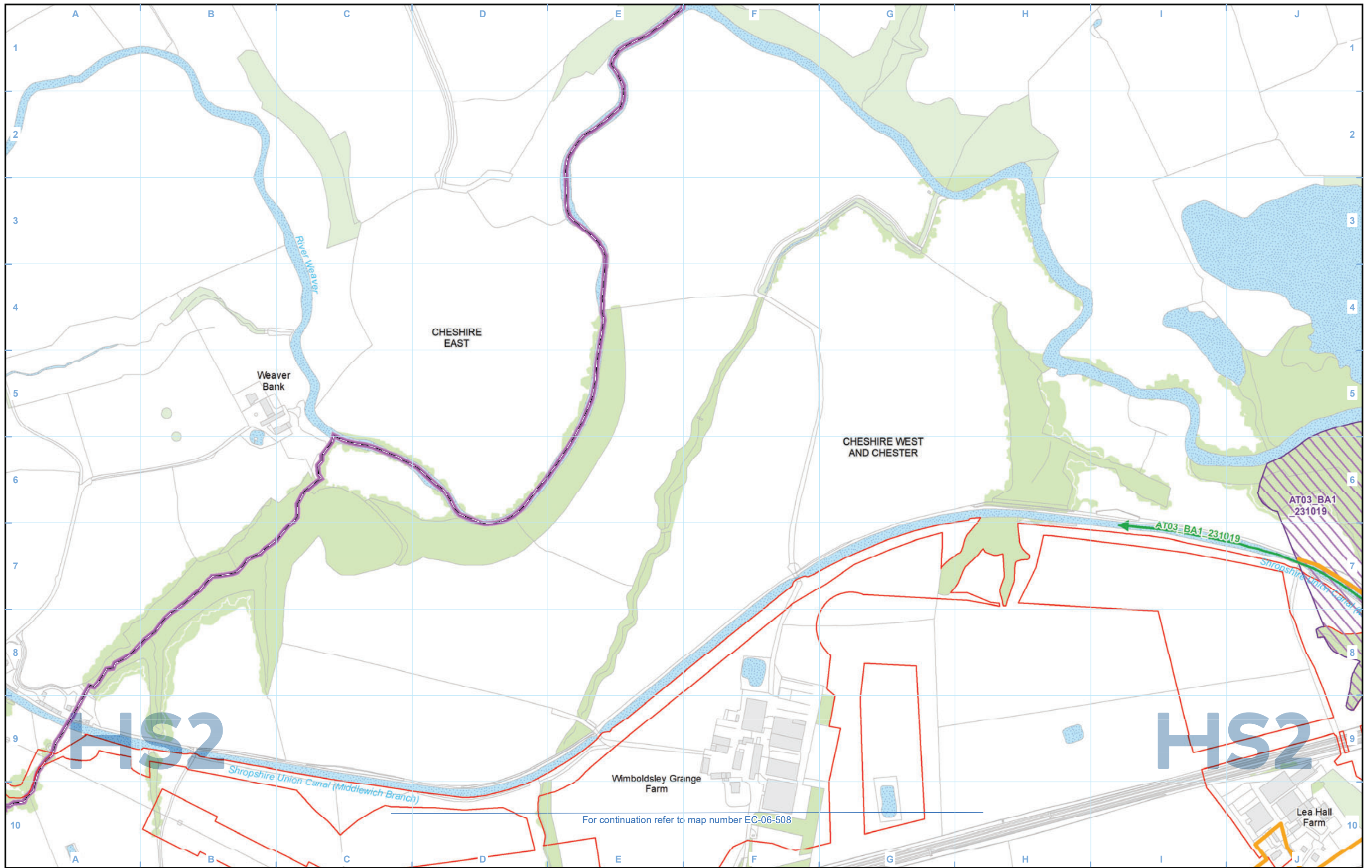
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001047-P01

Date: 12/08/21





**Legend**

Route in 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	Community area boundary	Assumed key areas of foraging habitat
County boundary		
District/Borough boundary		

Map Number	EC-06-508-L1
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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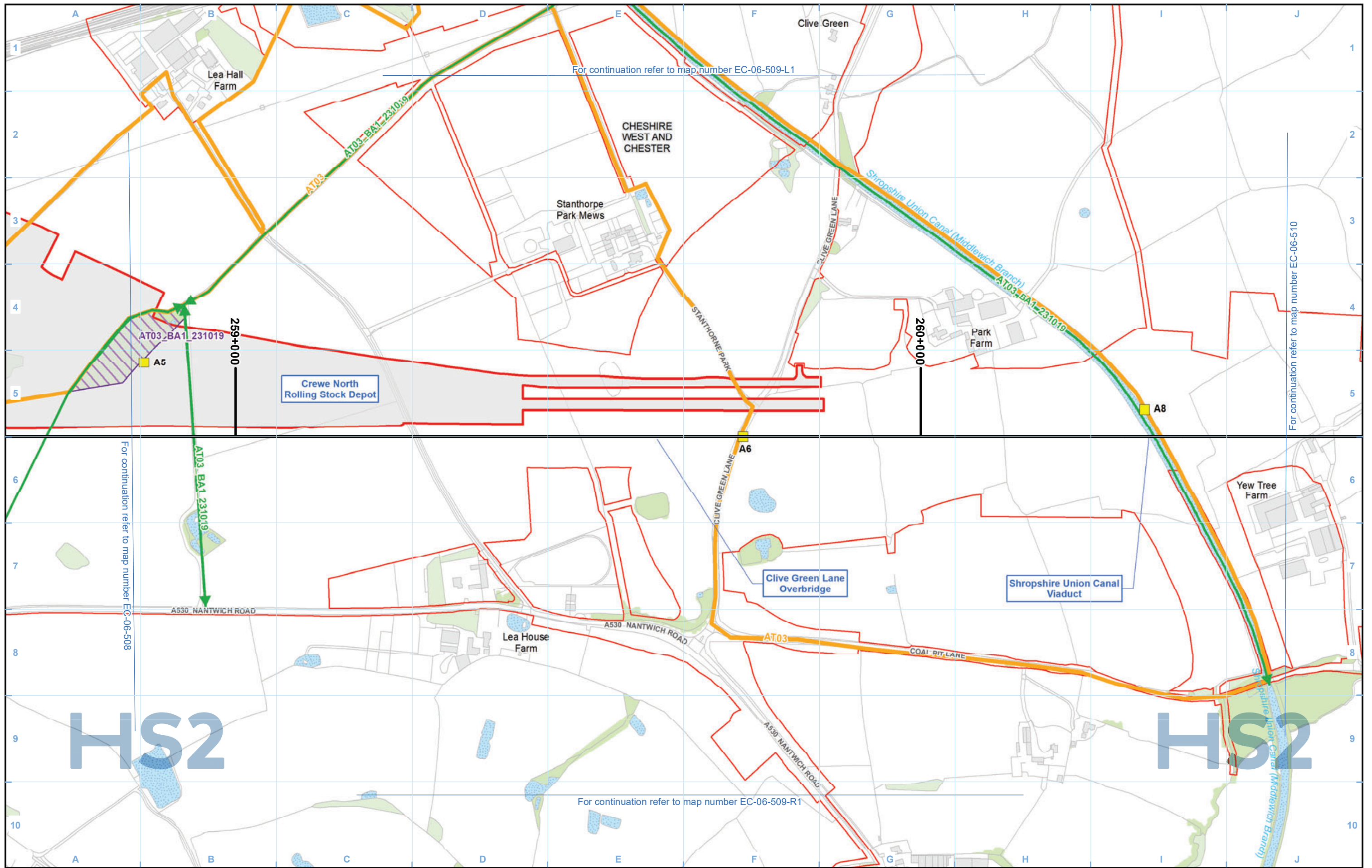
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003165-P01

Date: 12/08/21

For continuation refer to map number EC-06-508





For continuation refer to map number EC-06-509-L1

For continuation refer to map number EC-06-510

For continuation refer to map number EC-06-508

For continuation refer to map number EC-06-509-R1

- Legend**
- Route in 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-06-509
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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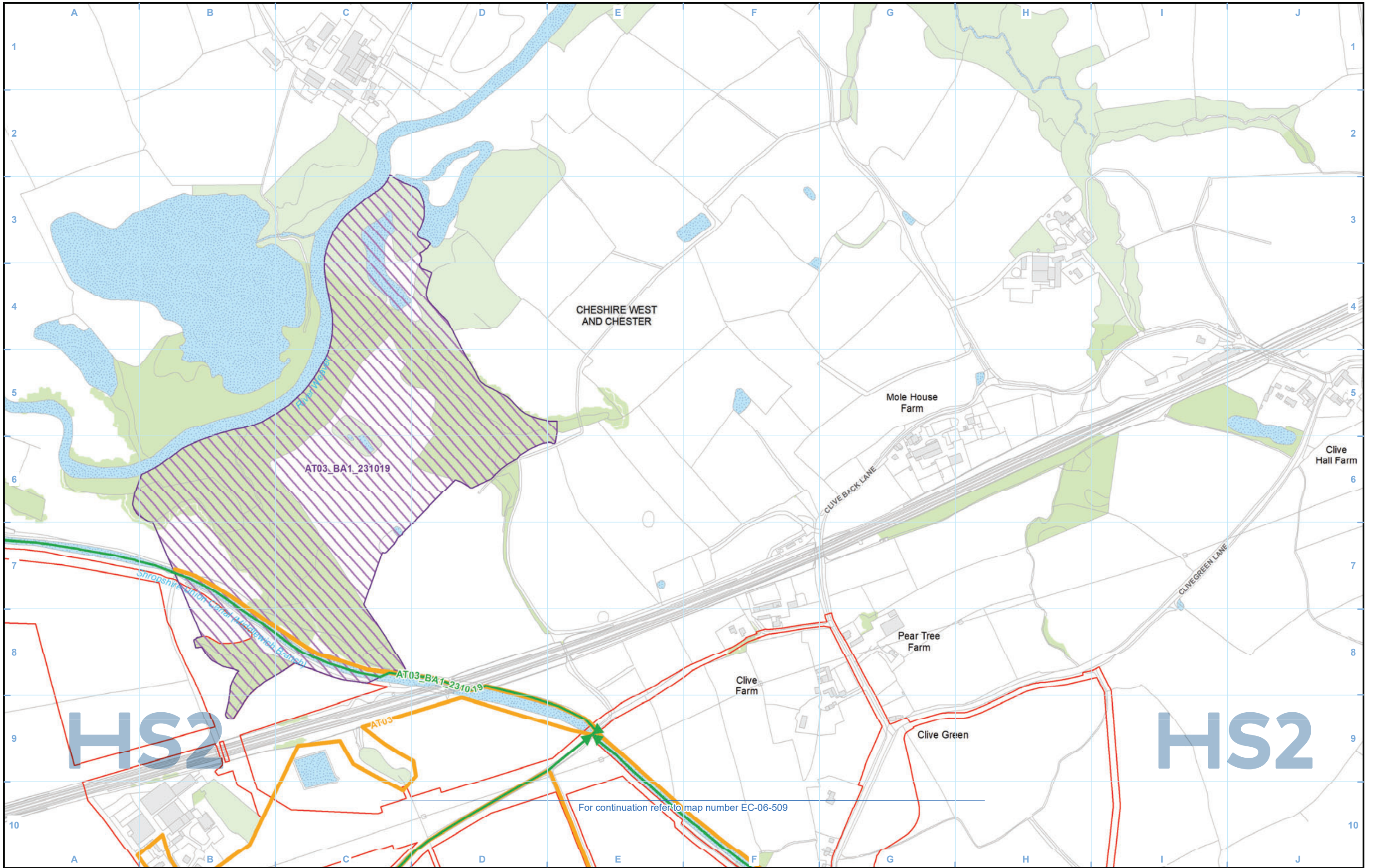
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Date: 12/08/21

# HS2

# HS2





**Legend**

- Route in 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-06-509-L1

Map Name: Bat - Activity

Community Area MA02:  
Wimboldsley to Lostock Gralam

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Doc Number: 2DE01-MWJ-EV-MAP-M000-002740-P01

Date: 12/08/21

CHESHIRE WEST  
AND CHESTER

Mole House  
Farm

Clive  
Hall Farm

Pear Tree  
Farm

Clive  
Farm

Clive Green

For continuation refer to map number EC-06-509

AT03\_BA1\_231019

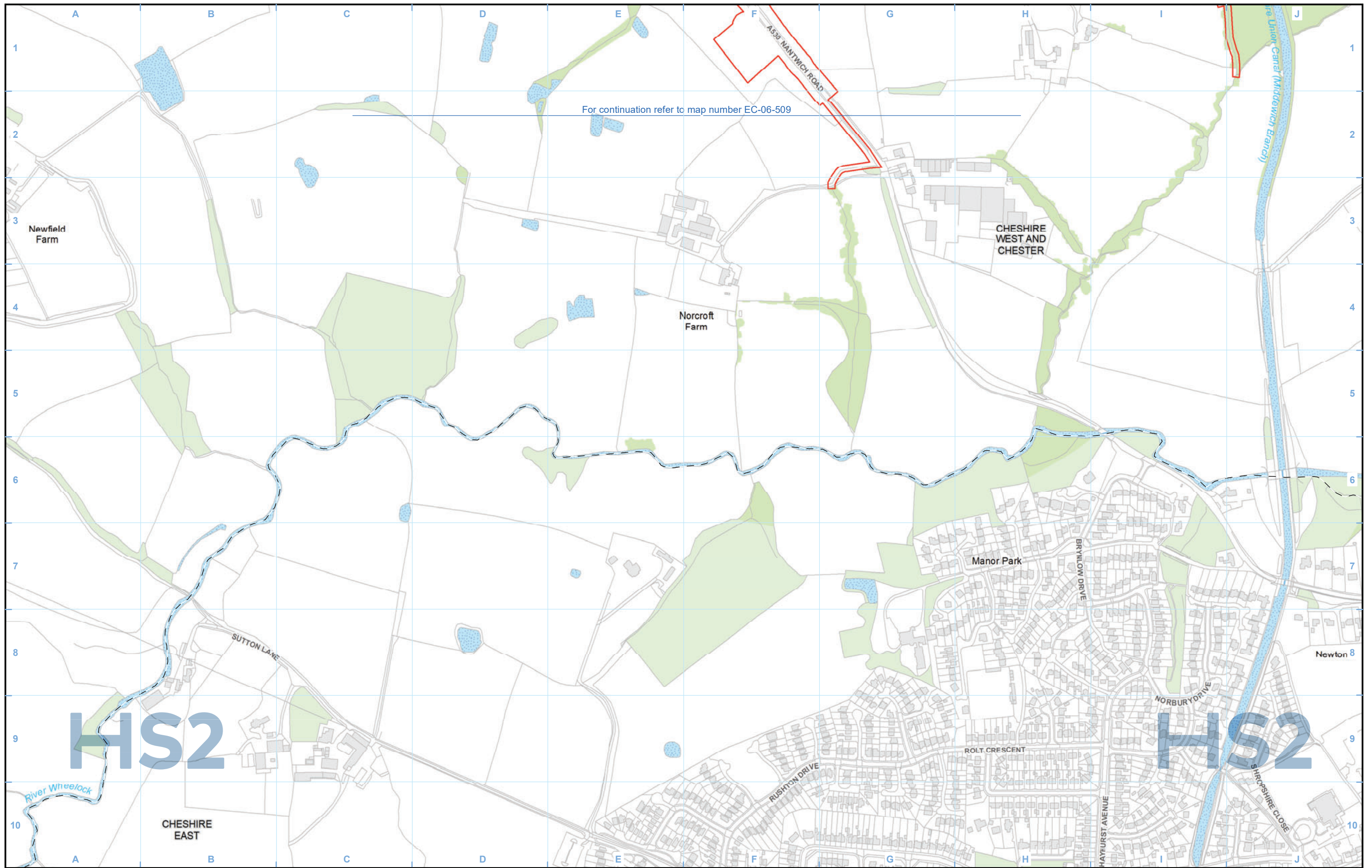
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AT03

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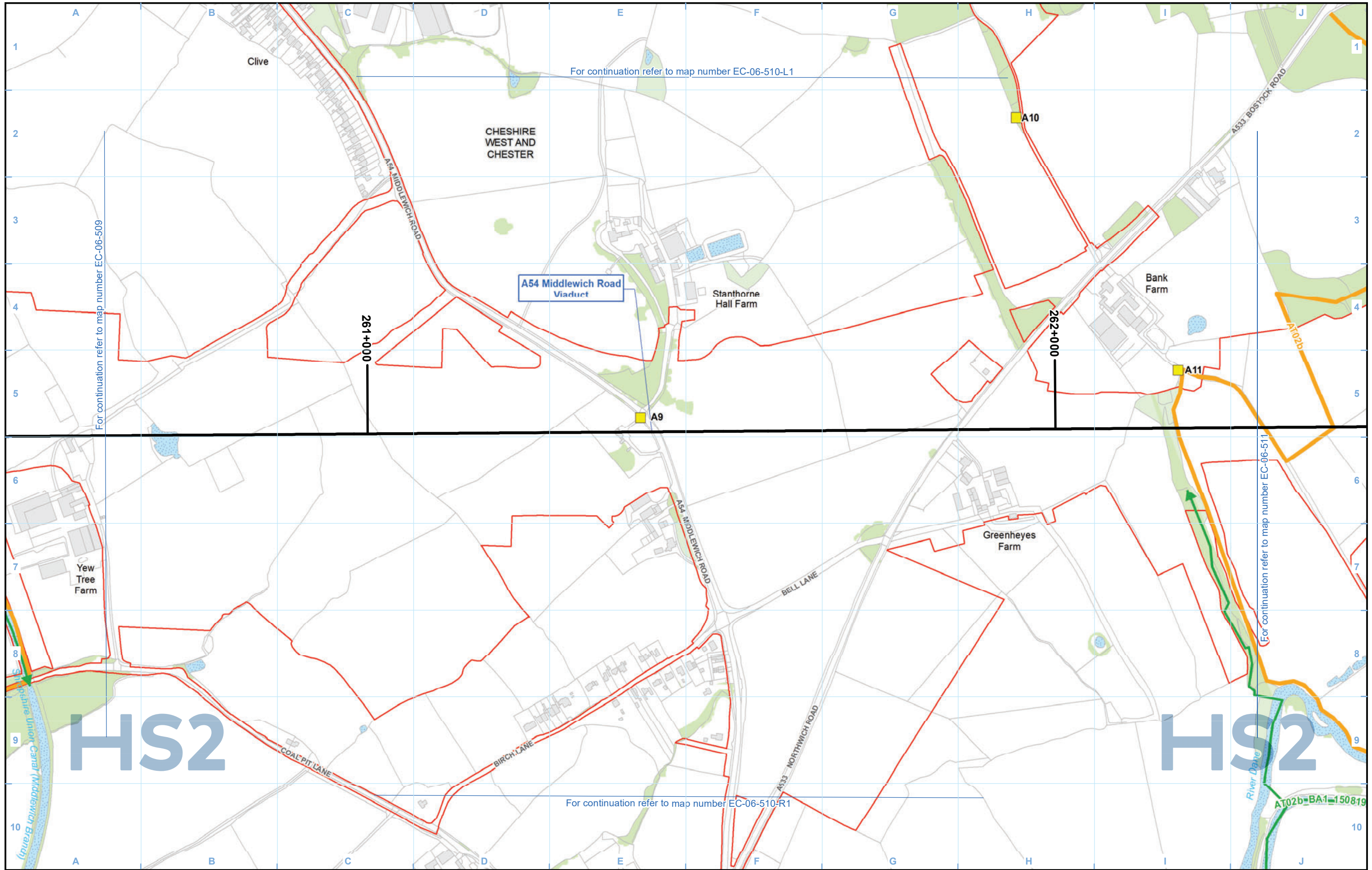




For continuation refer to map number EC-06-509

<b>Legend</b> Route in 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-06-509-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 6QA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area MA02:</b> Wimboldsley to Lostock Gralam		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003166-P01</small>	
				<b>Date: 12/08/21</b>	





For continuation refer to map number EC-06-510-L1

For continuation refer to map number EC-06-509

For continuation refer to map number EC-06-511

For continuation refer to map number EC-06-510-R1

- Legend**
- Route in 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-06-510
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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Metres

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For continuation refer to map number EC-06-510

- Legend**
- Route in 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-06-510-L1
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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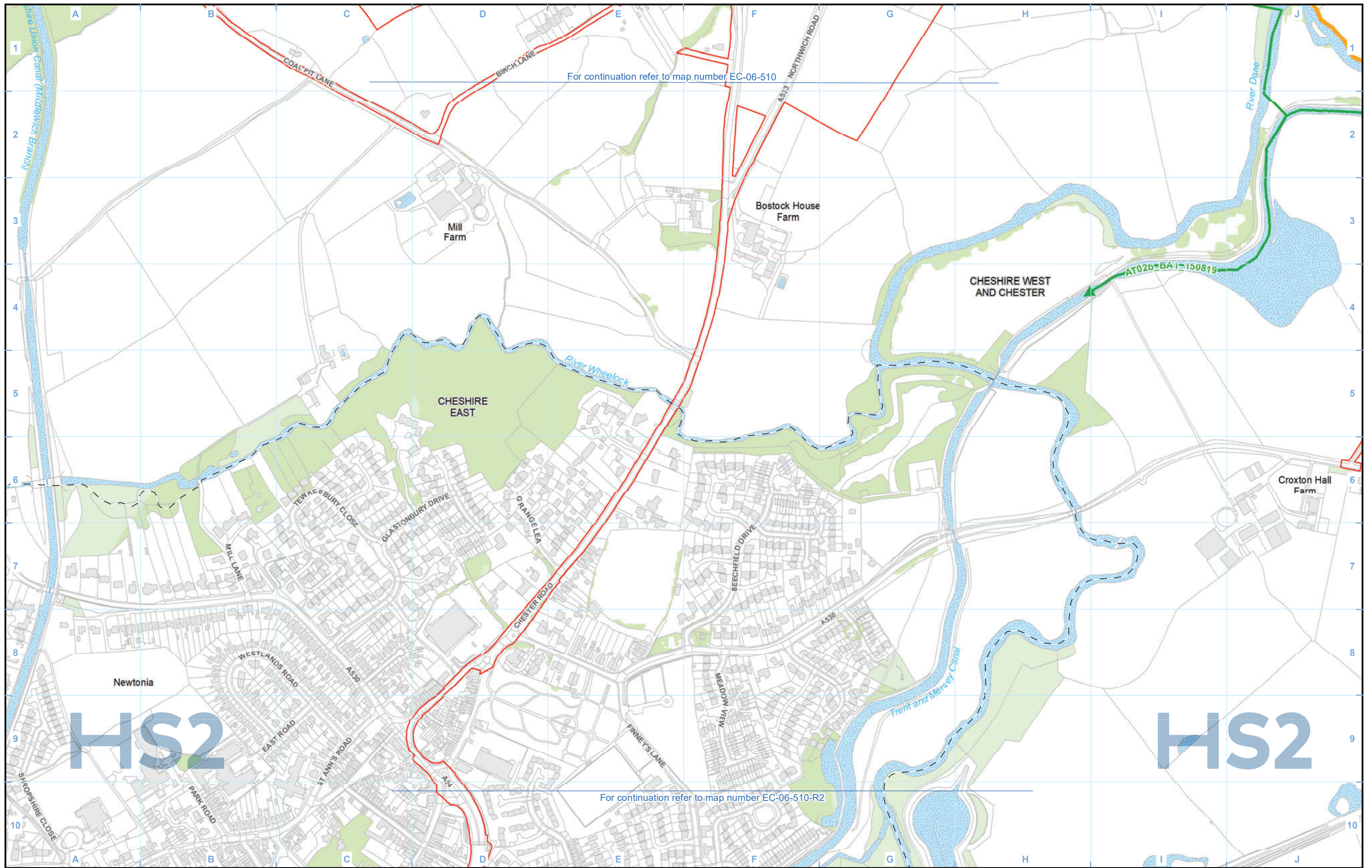
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003167-P01

Date: 12/08/21





**Legend**

- Route in tunnel
- 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-06-510-R1

Map Name: Bat - Activity

Community Area MA02:  
Wimboldsley to Lostock Gralam

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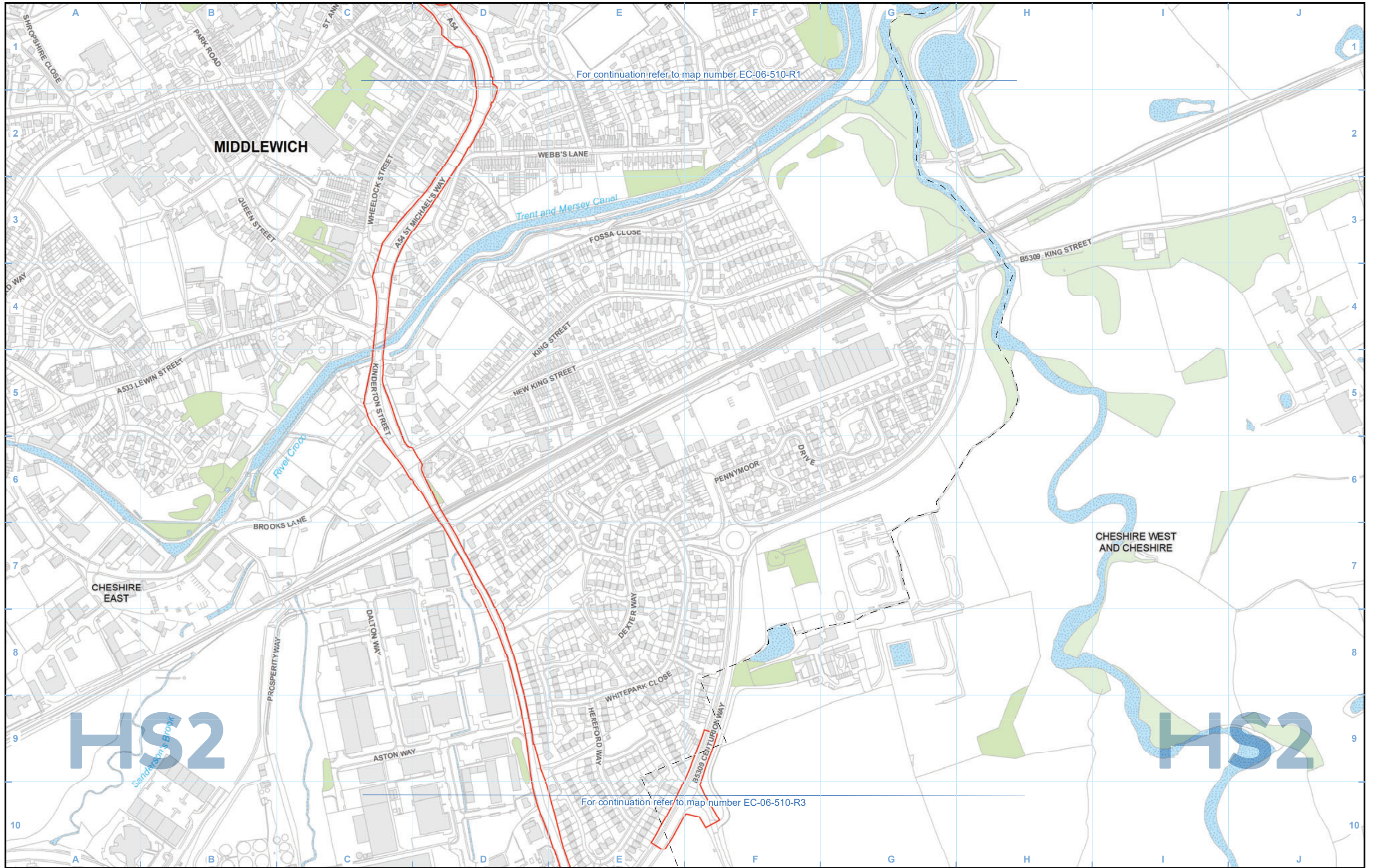
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Date: 12/08/21





For continuation refer to map number EC-06-510-R1

For continuation refer to map number EC-06-510-R3

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

Map Number	EC-06-510-R2
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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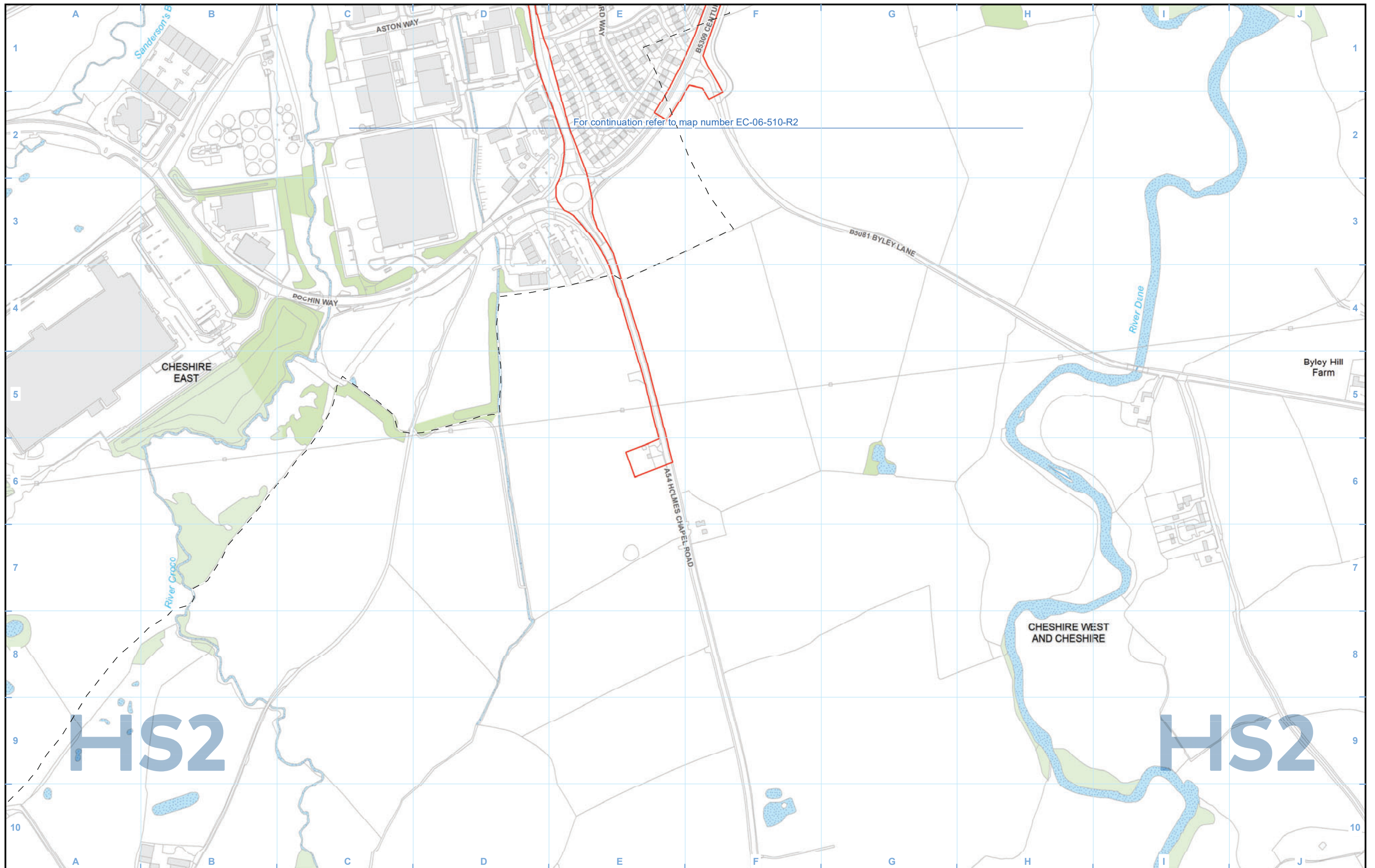
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Scale at A3: 1:5,000

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Date: 12/08/21





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

Map Number	EC-06-510-R3
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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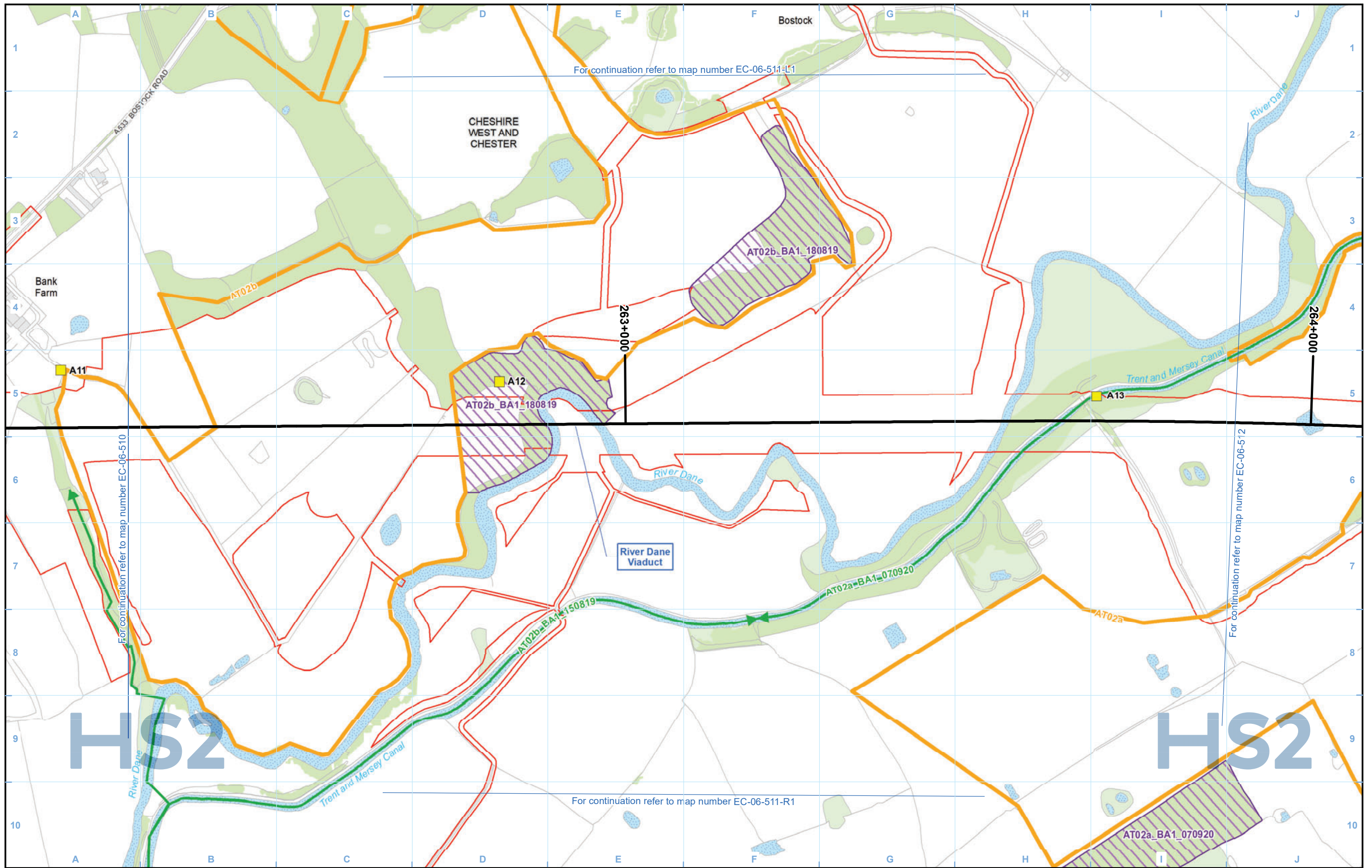
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Scale at A3: 1:5,000

Metres

Date: 12/08/21





**Legend**

Route in 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-06-511
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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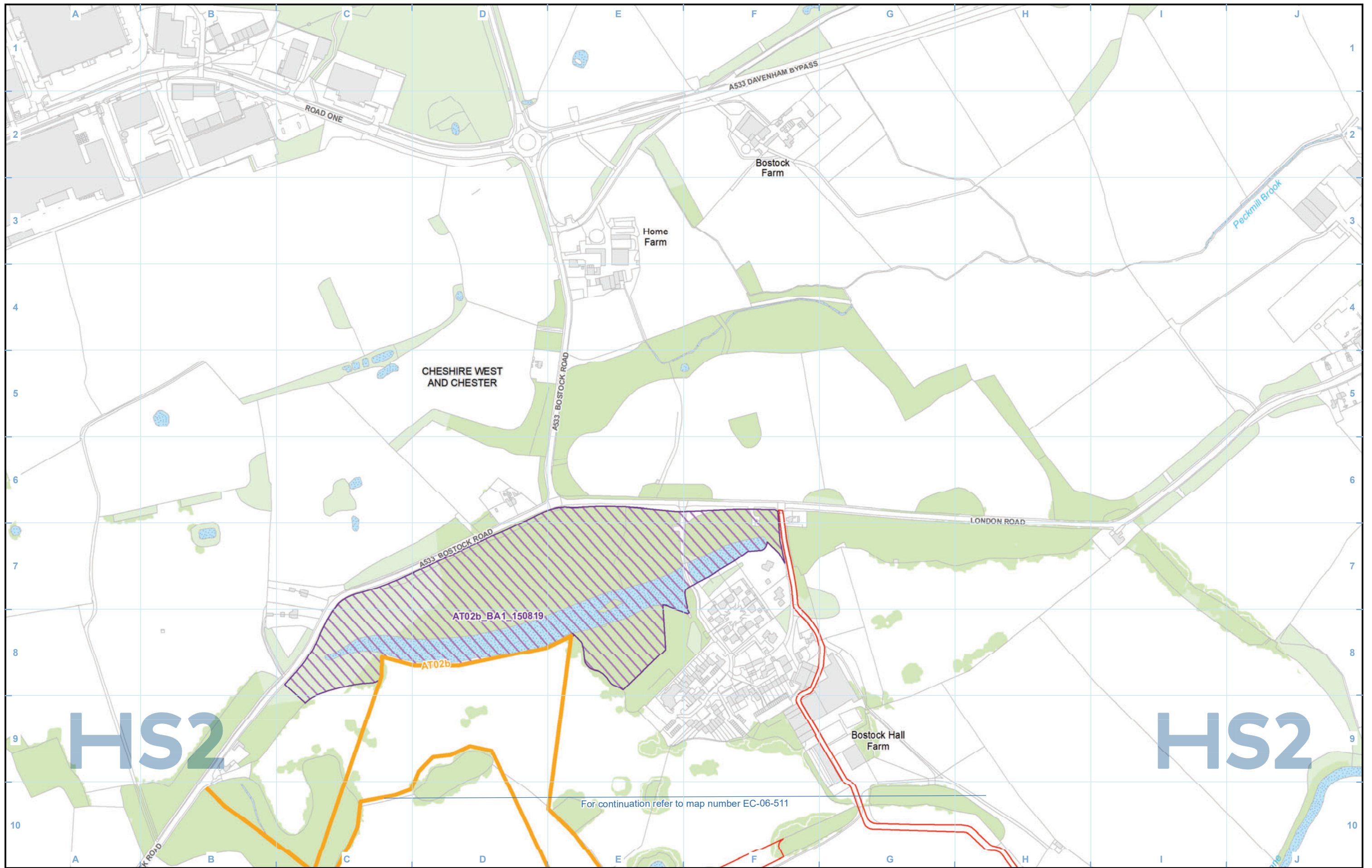
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Date: 12/08/21





Legend					
	Route in 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-06-511-L1
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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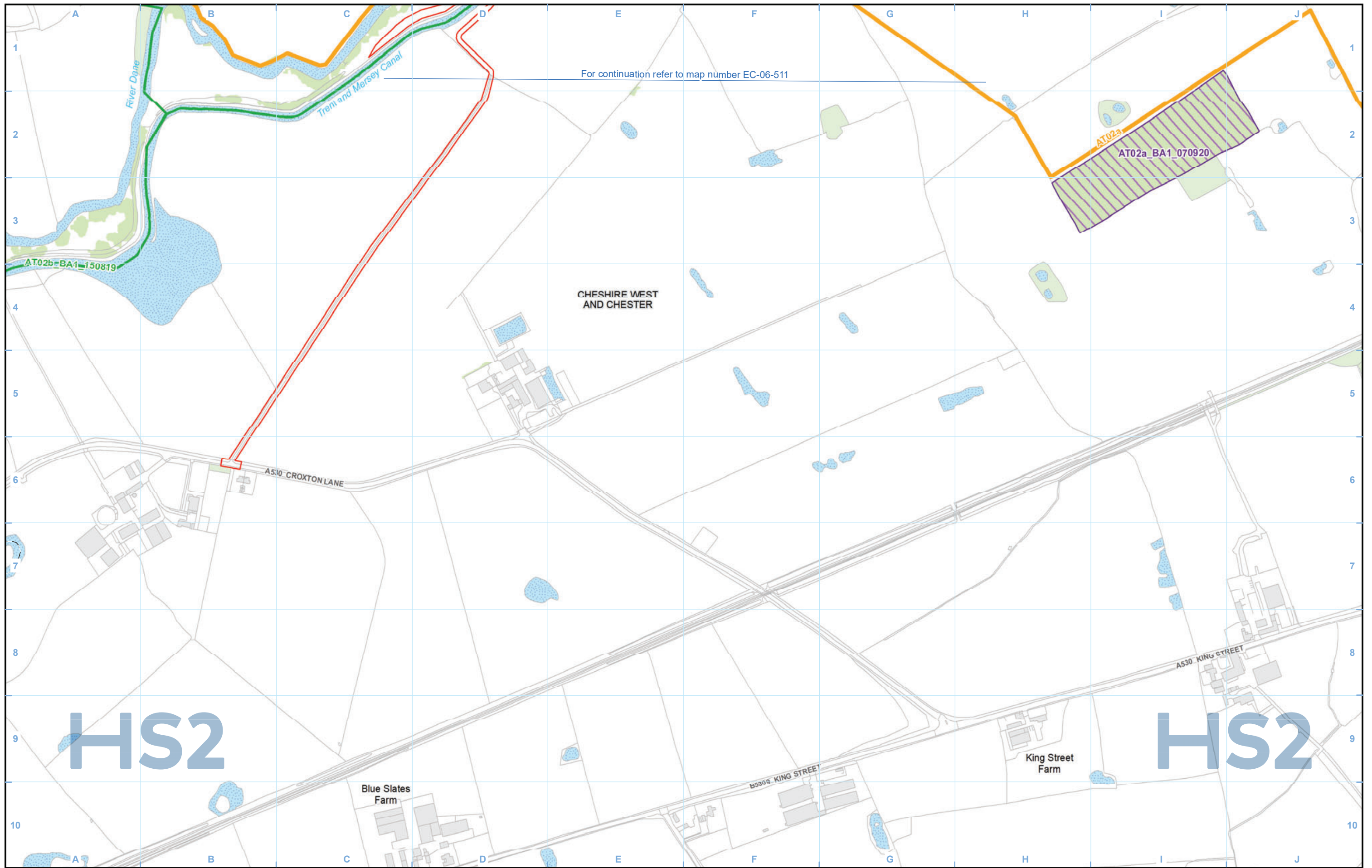
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Scale at A3: 1:5,000

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Date: 12/08/21





Legend					
	Route in 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-06-511-R1
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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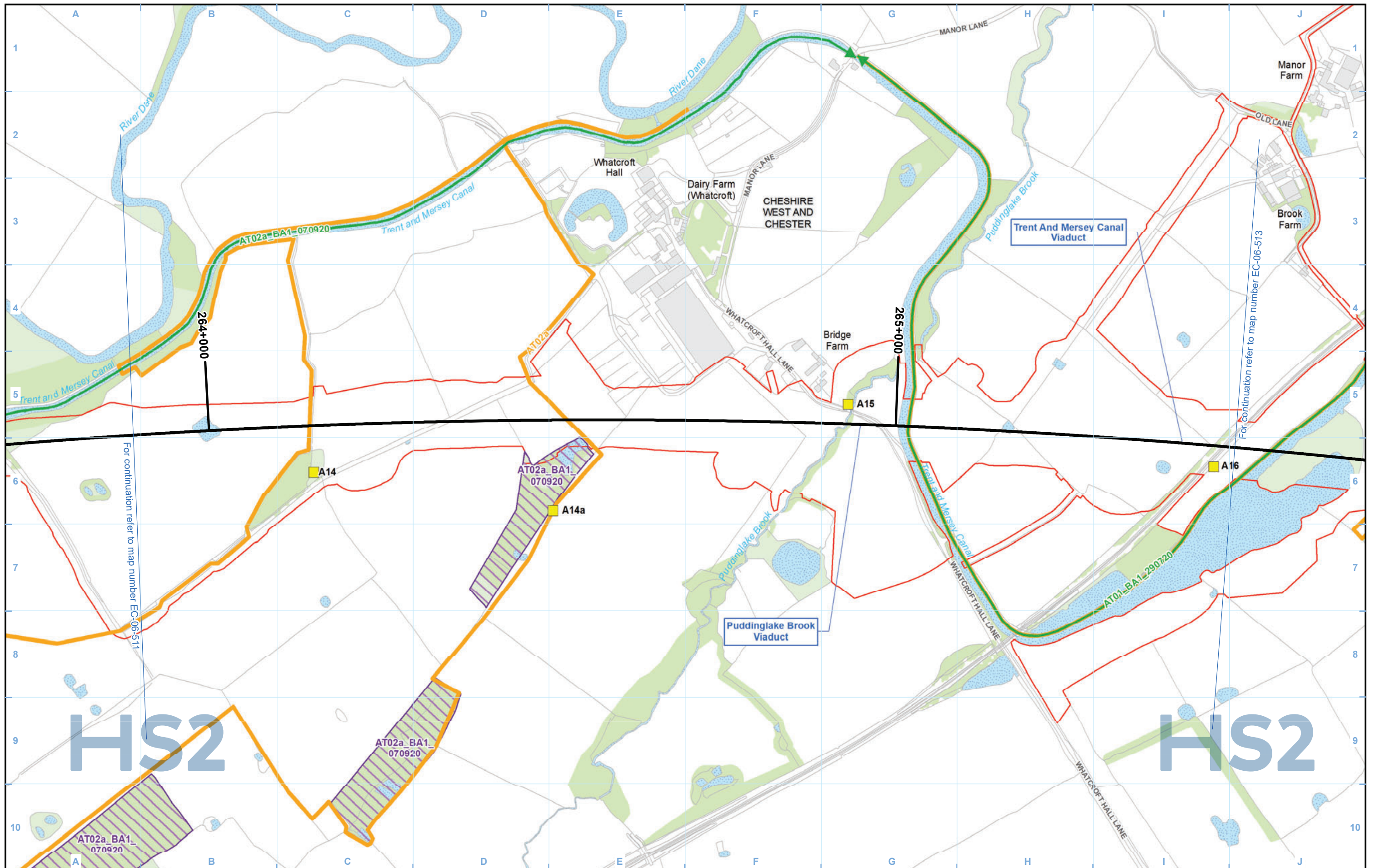
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Legend		

Map Number	EC-06-512
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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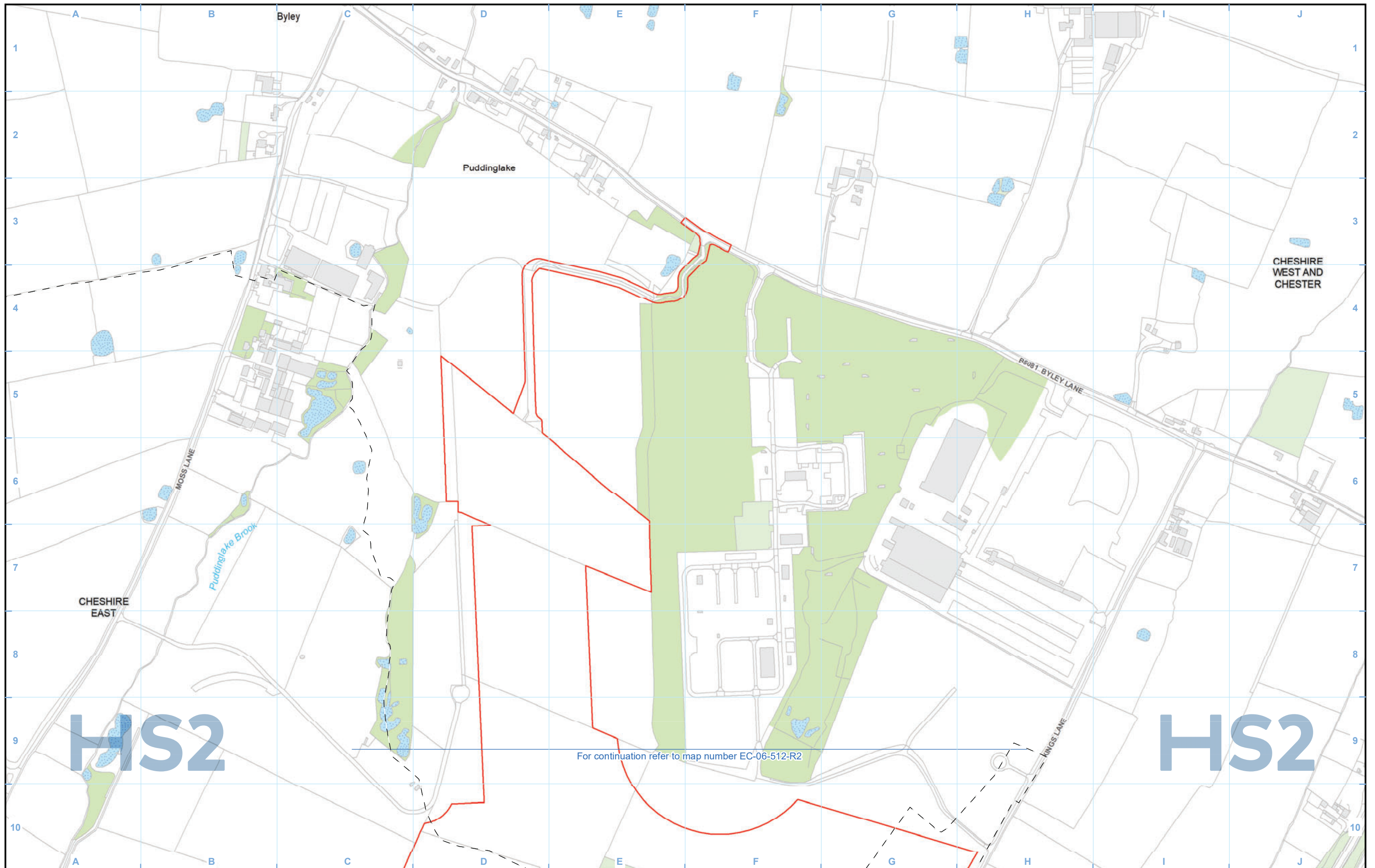
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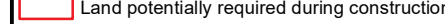
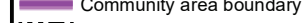
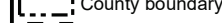



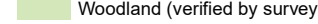
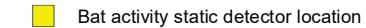

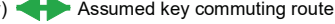
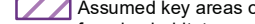
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Date: 12/08/21






**Legend**

-  Route in 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-06-512-R1
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

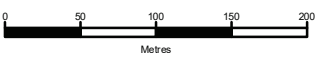


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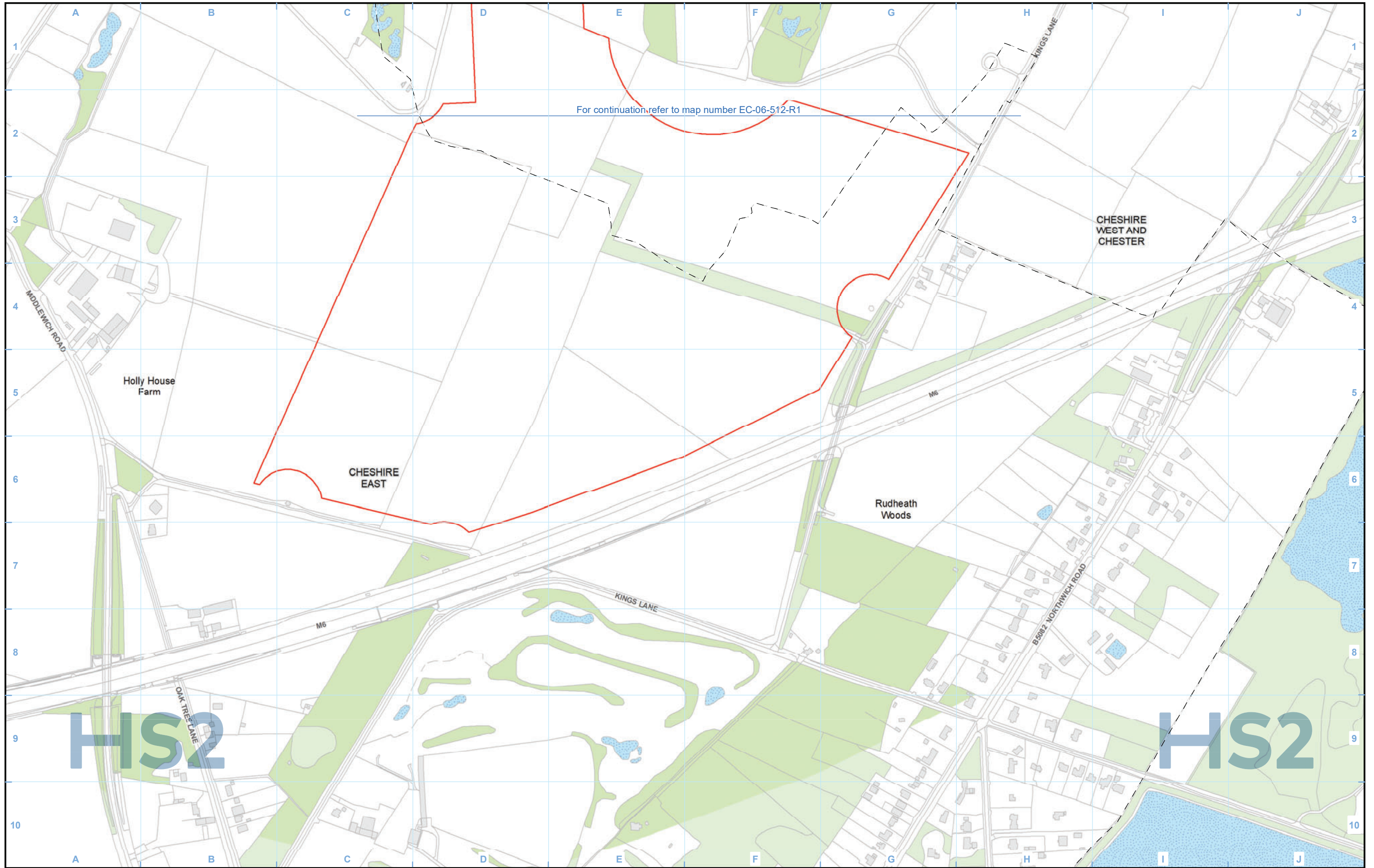
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**Date:** 12/08/21

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

Map Number	EC-06-512-R2
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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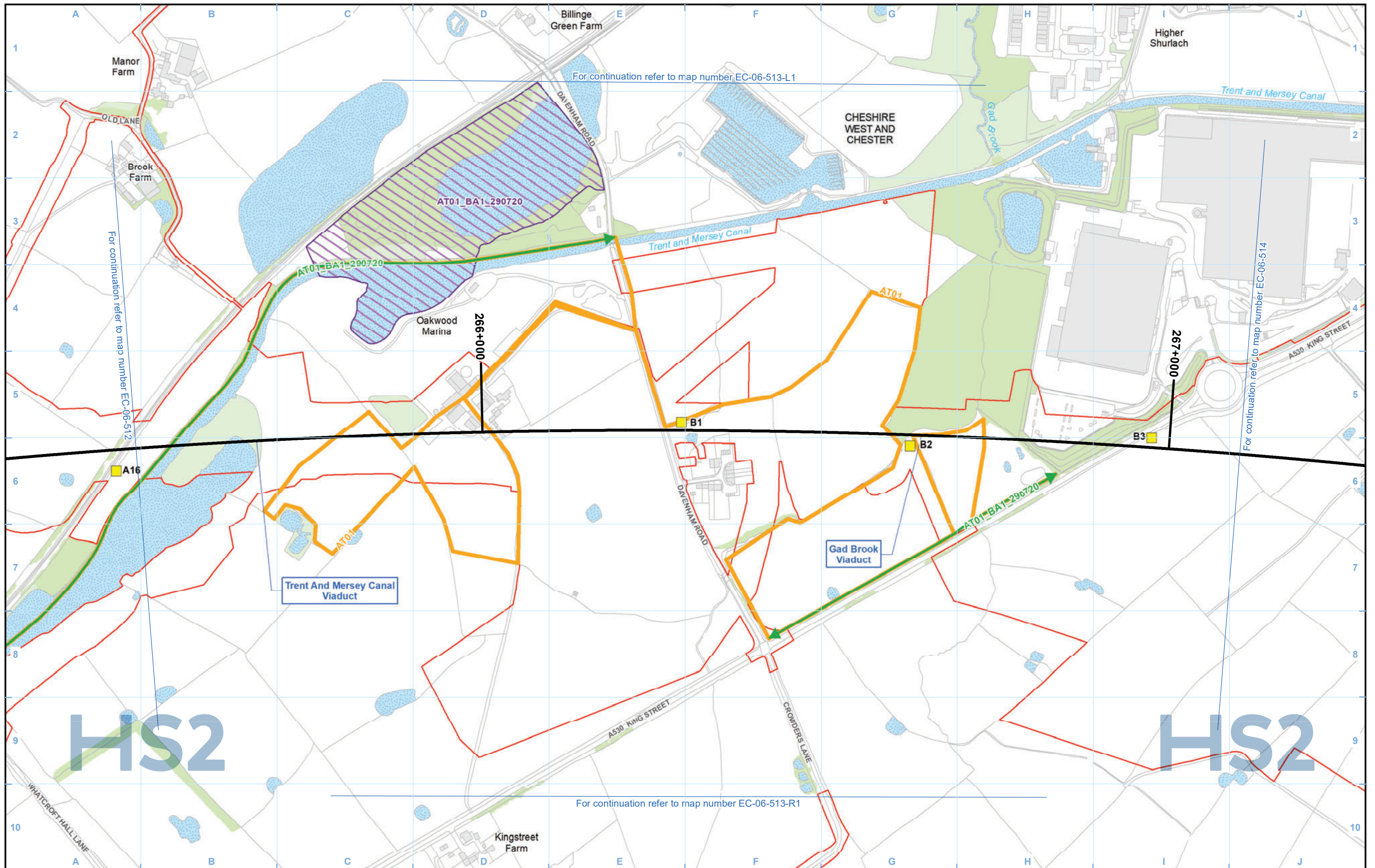
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Metres

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**Legend**


For continuation refer to map number EC-06-512

For continuation refer to map number EC-06-513-L1

For continuation refer to map number EC-06-514

For continuation refer to map number EC-06-513-R1

Map Number	EC-06-513
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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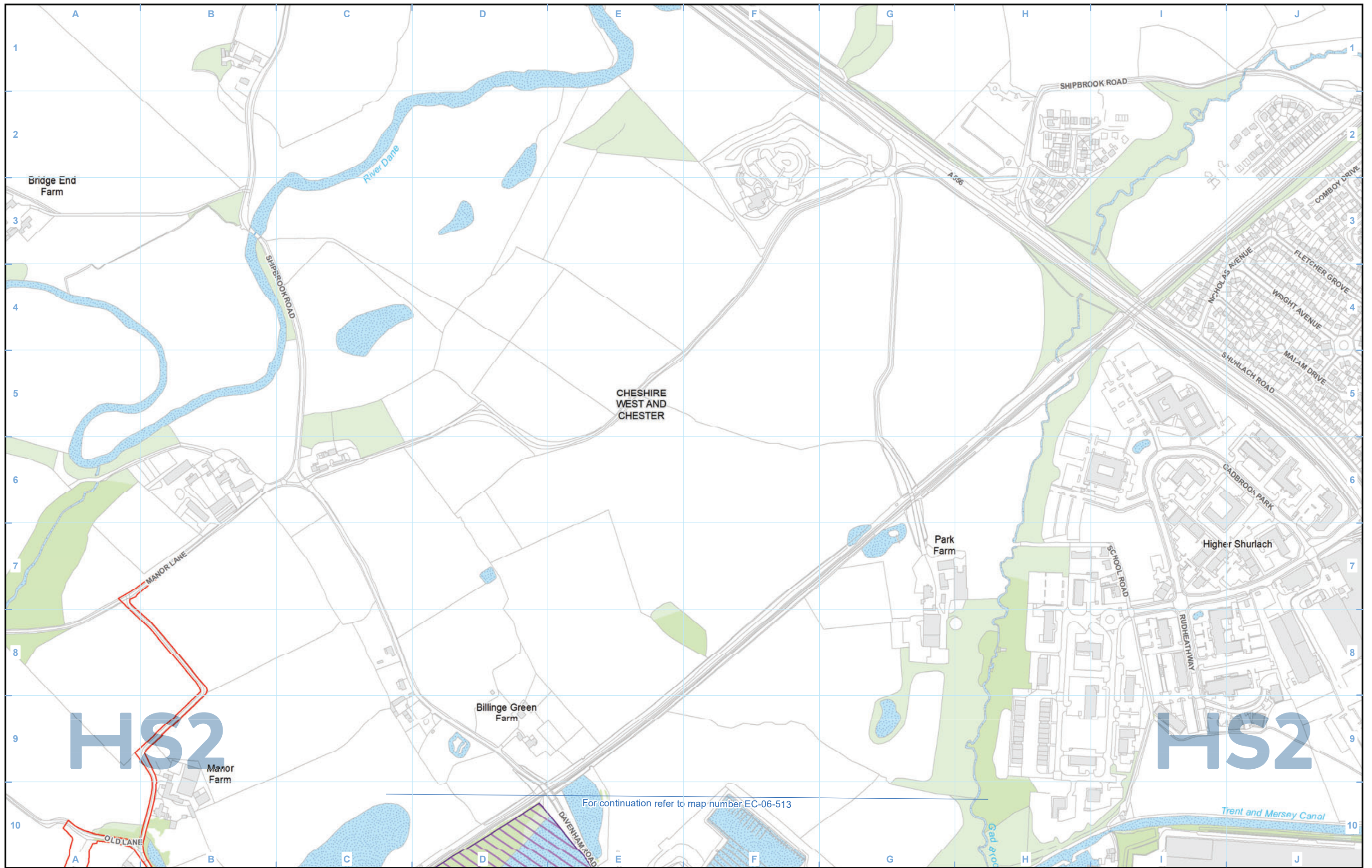
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Metres

Date: 12/08/21





For continuation refer to map number EC-06-513

Legend	
	Route in 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-06-513-L1
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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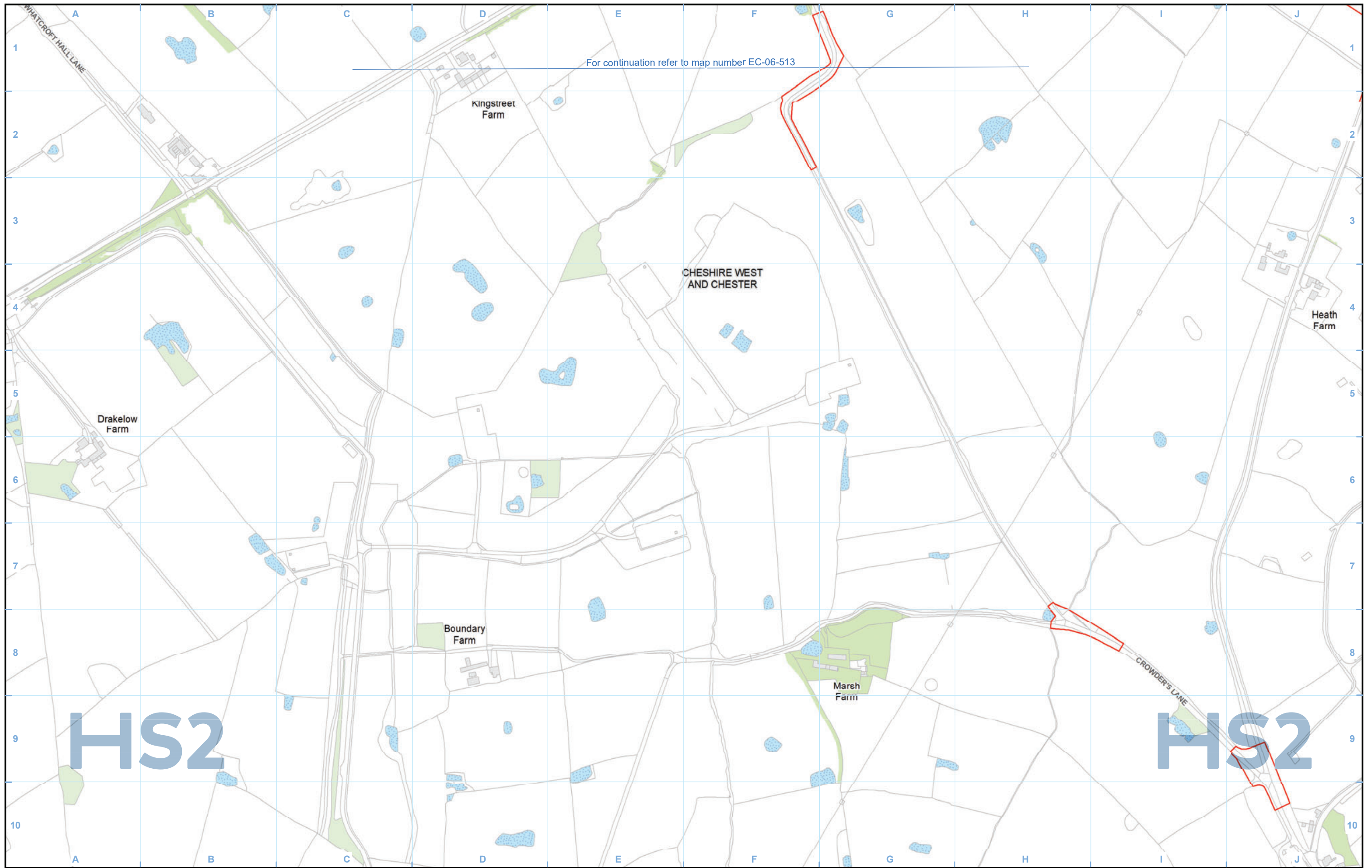
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Metres

Date: 12/08/21

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

Map Number	EC-06-513-R1
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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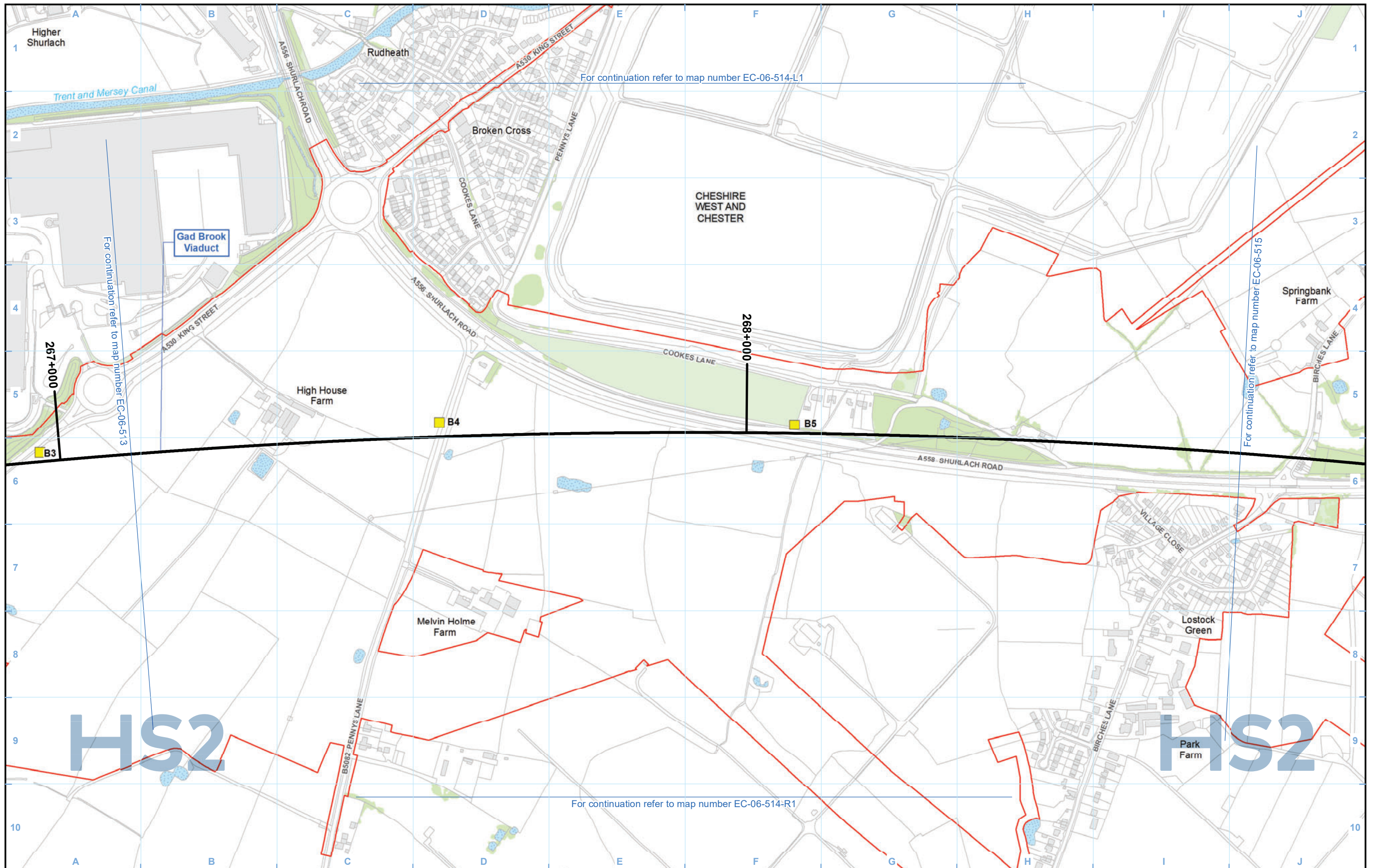
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Date: 12/08/21





For continuation refer to map number EC-06-514-L1

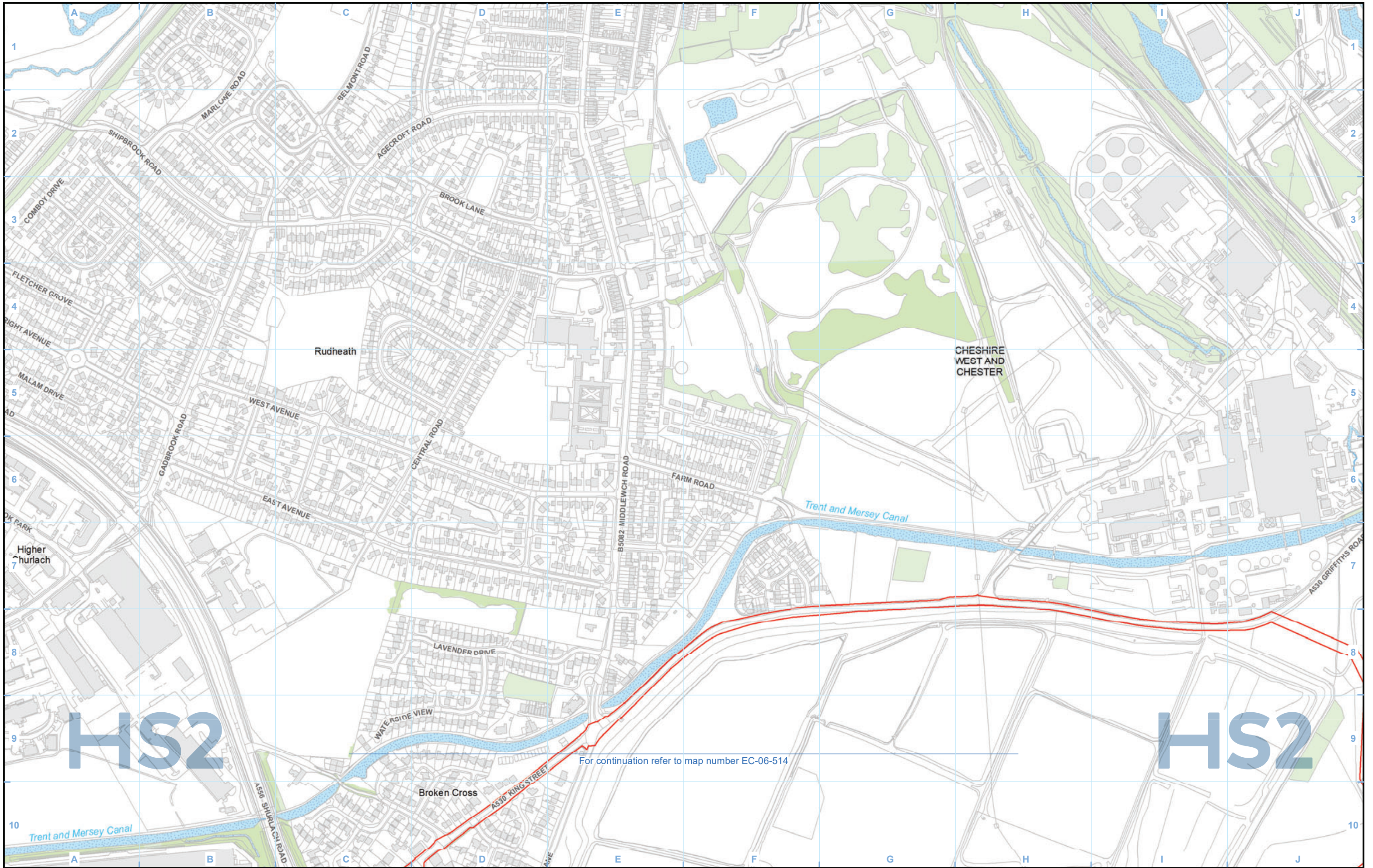
For continuation refer to map number EC-06-513

For continuation refer to map number EC-06-515

For continuation refer to map number EC-06-514-R1

<b>Legend</b> Route in 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-06-514				<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 6QA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area MA02:</b> Wimboldsley to Lostock Gralam		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-001053-P01</small>	
				<b>Date: 12/08/21</b>	





- Legend**
- Route in 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-06-514-L1
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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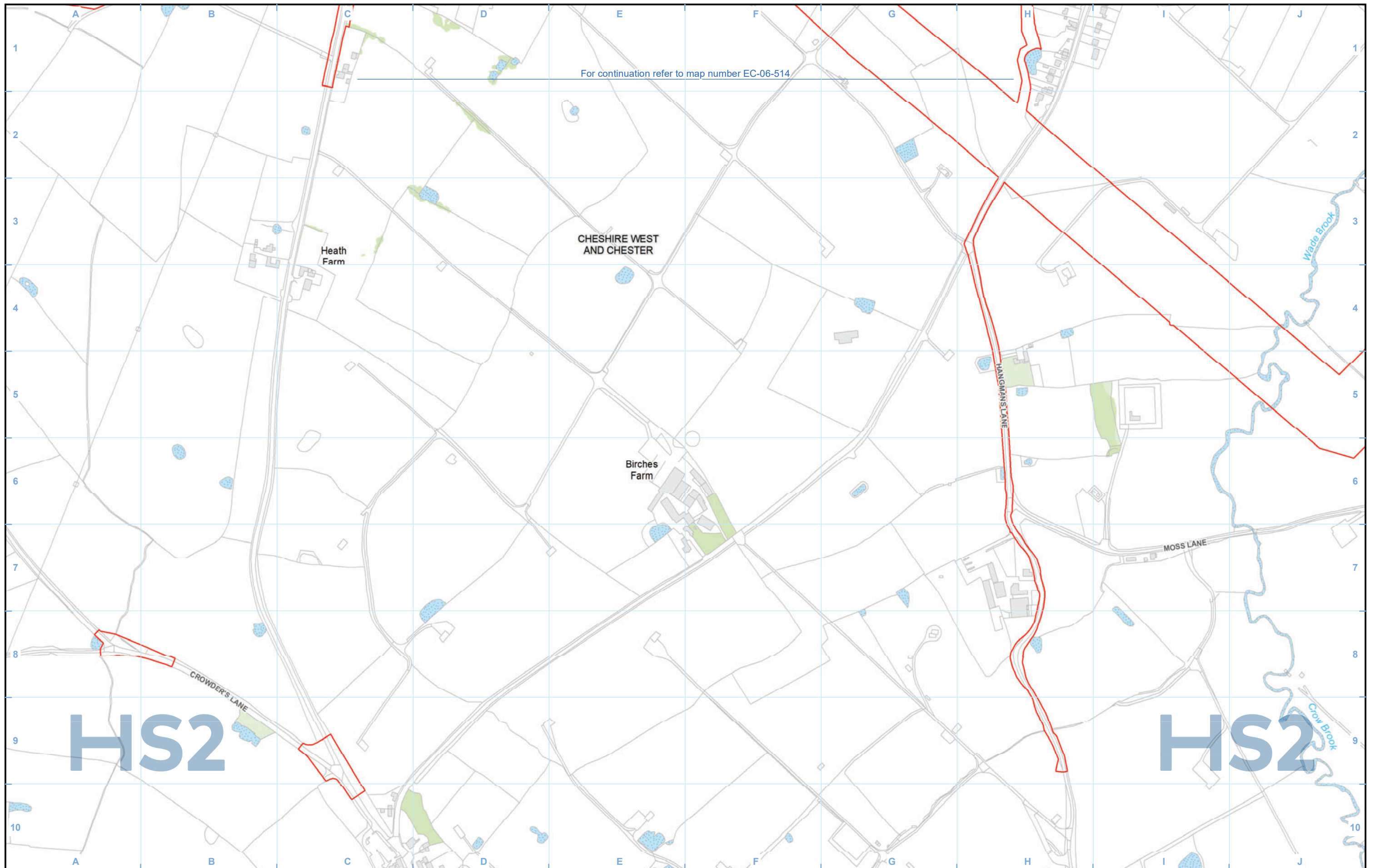
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For continuation refer to map number EC-06-514

Heath Farm

CHESHIRE WEST AND CHESTER

Birches Farm

HANGMAN'S LANE

MOSS LANE

CROWDER'S LANE

Wade Brook

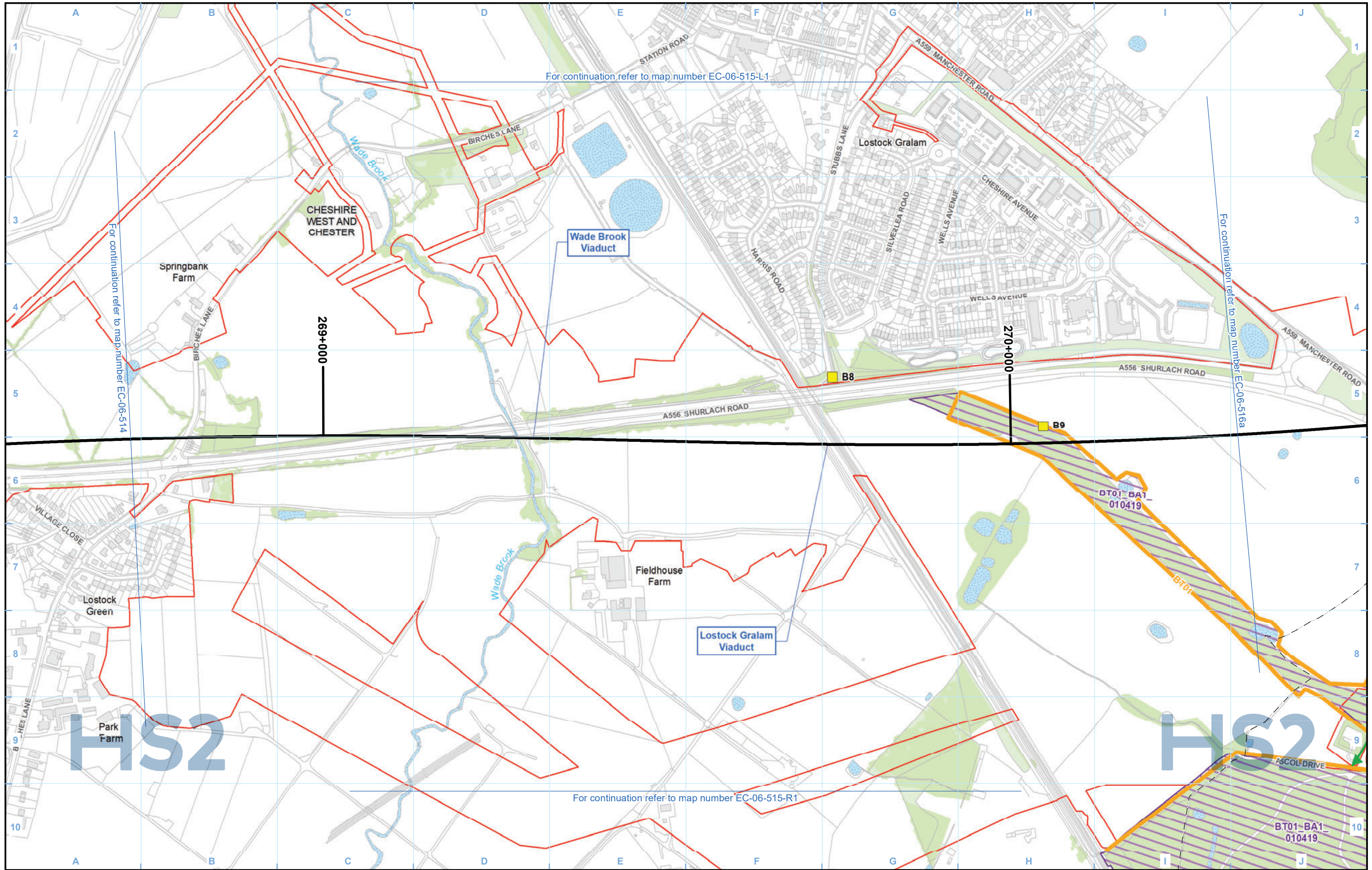
Crow Brook

HS2

HS2

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in 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-06-514-R1</p> <p>Map Name: Bat - Activity</p> <p>Community Area MA02: Wimboldsley to Lostock Gralam</p>	<p><b>HS2</b></p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2020 OS 100049190</p> <p>Doc Number: 2DE01-MWJ-EV-MAP-M000-003176-P01</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></p> <p>Scale at A3: 1:5,000</p> <p></p> <p>Metres</p> <p>Date: 12/08/21</p>
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Legend		

Map Number	EC-06-515
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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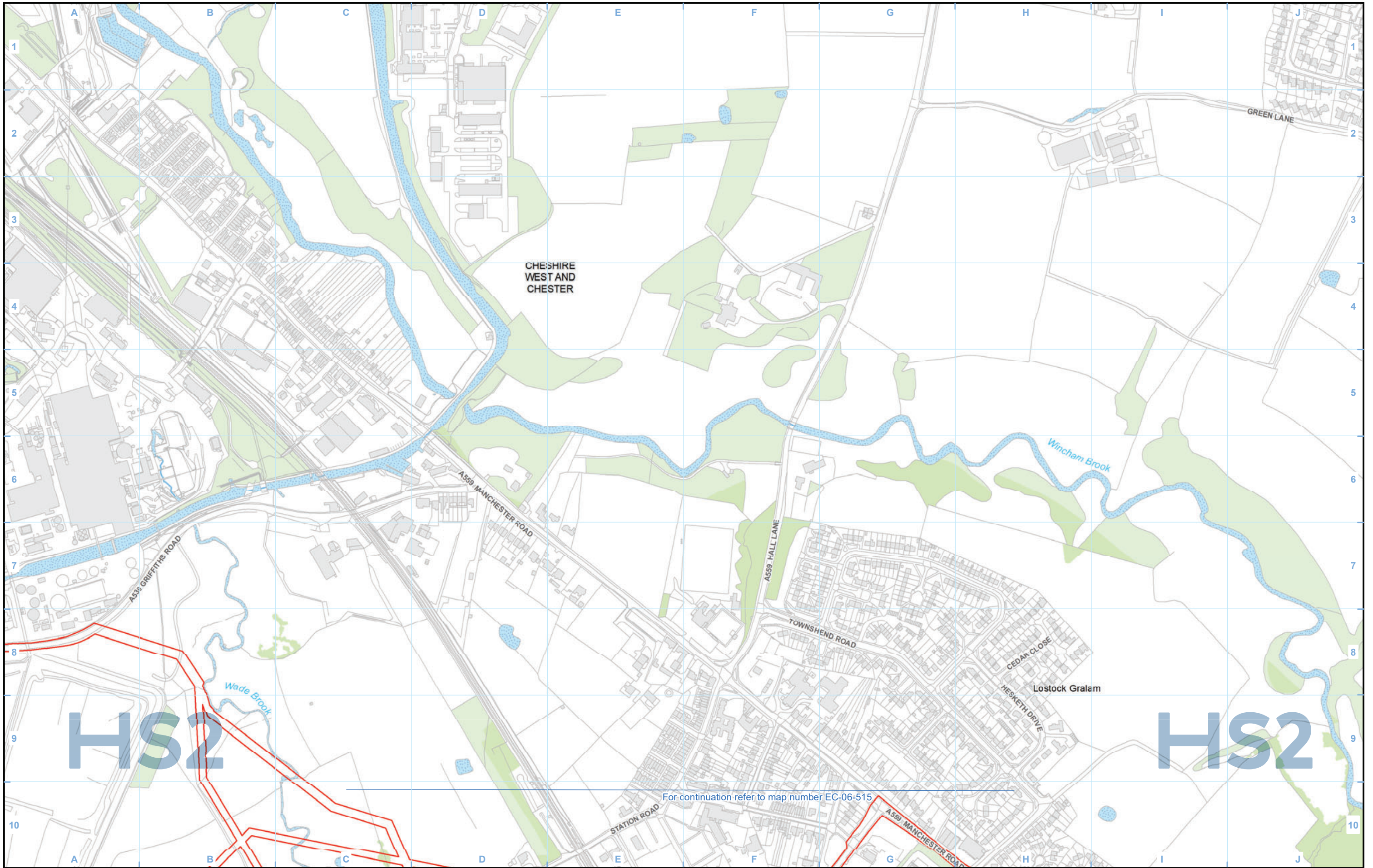
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Scale at A3: 1:5,000

Metres

Date: 12/08/21





For continuation refer to map number EC-06-515

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

Map Number	EC-06-515-L1
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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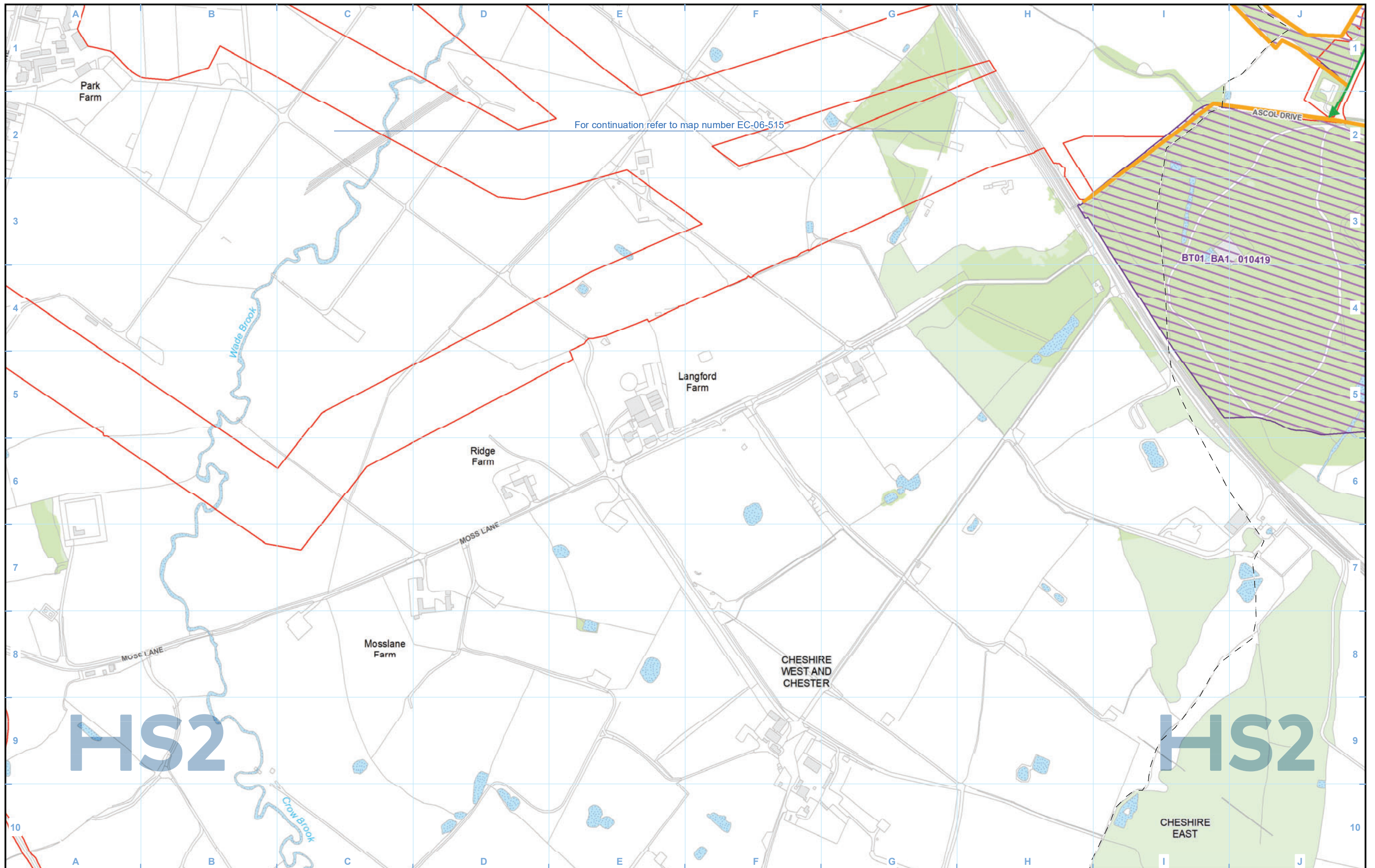
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Scale at A3: 1:5,000

Metres

Date: 12/08/21





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

Map Number	EC-06-515-R1
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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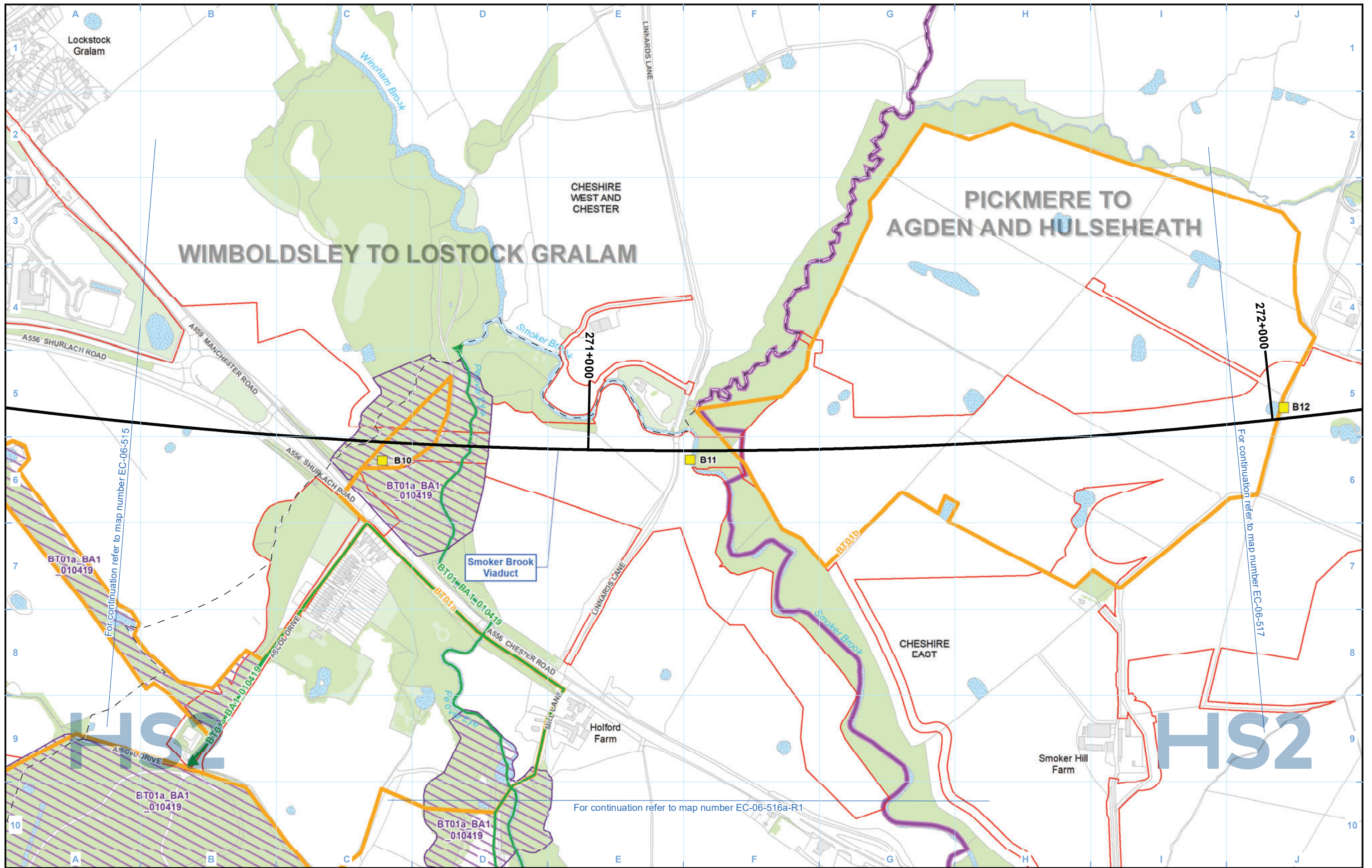
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**Legend**

- Route in 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-06-516a
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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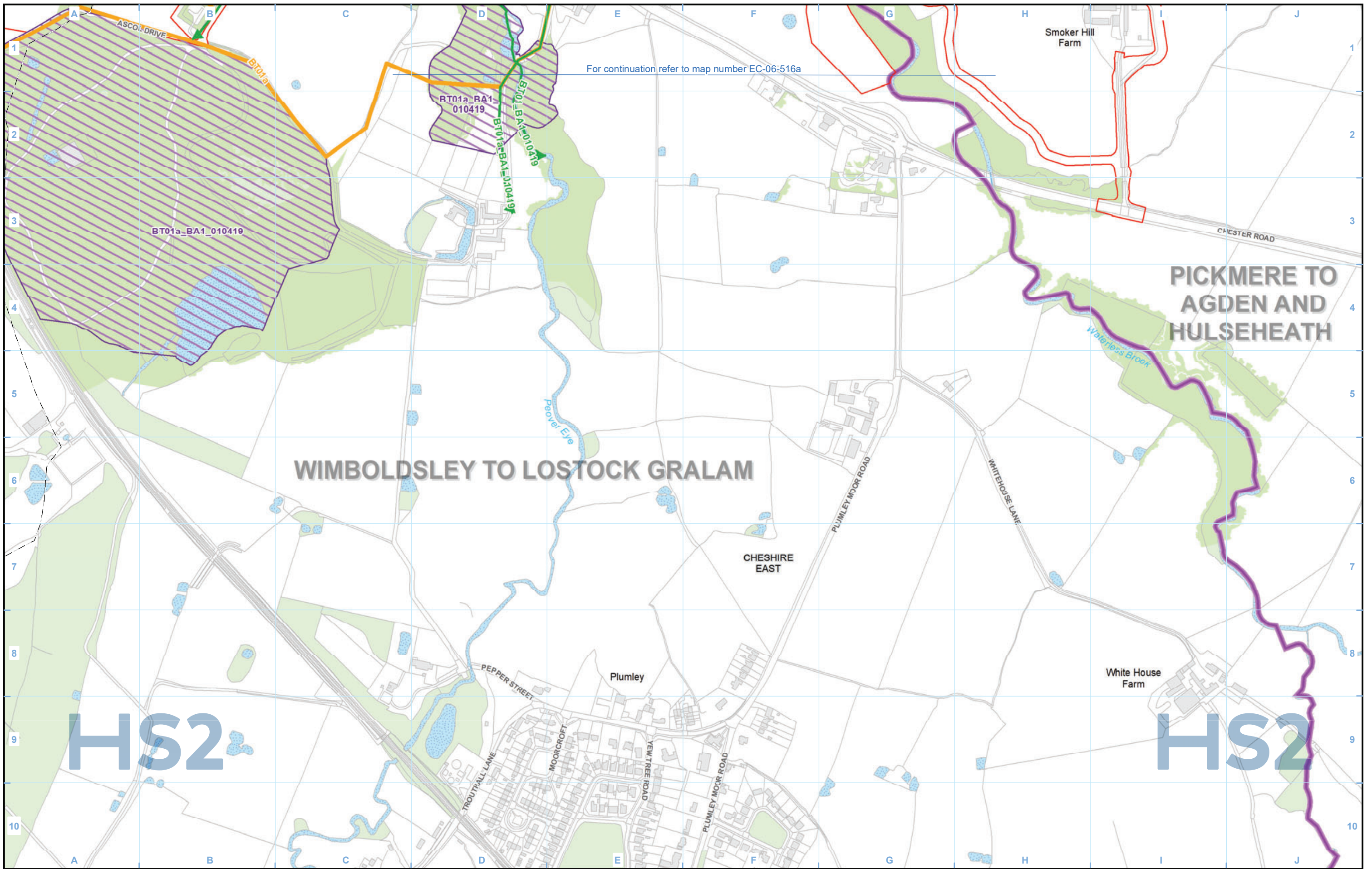
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For continuation refer to map number EC-06-516a

**WIMBOLDSLEY TO LOSTOCK GRALAM**

**PICKMERE TO AGDEN AND HULSEHEATH**

**Legend**


Map Number	EC-06-516a-R1
Map Name	Bat - Activity
Community Area MA02: Wimboldsley to Lostock Gralam	

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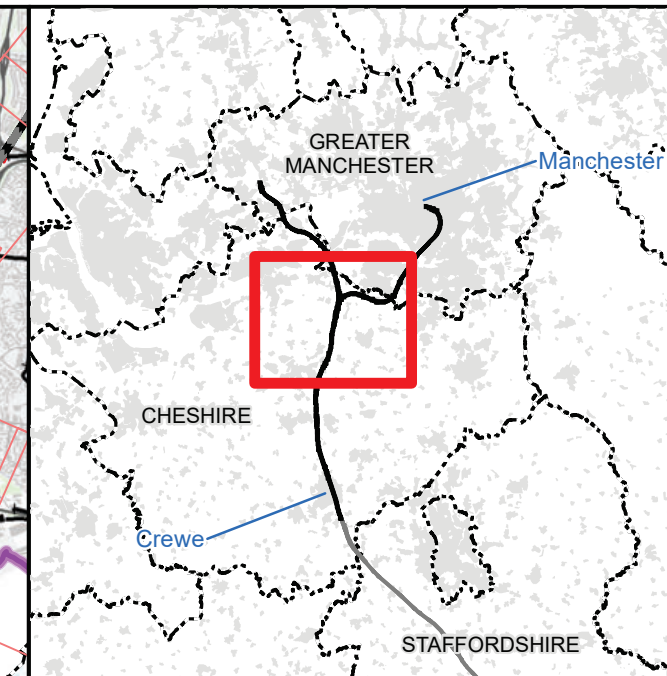
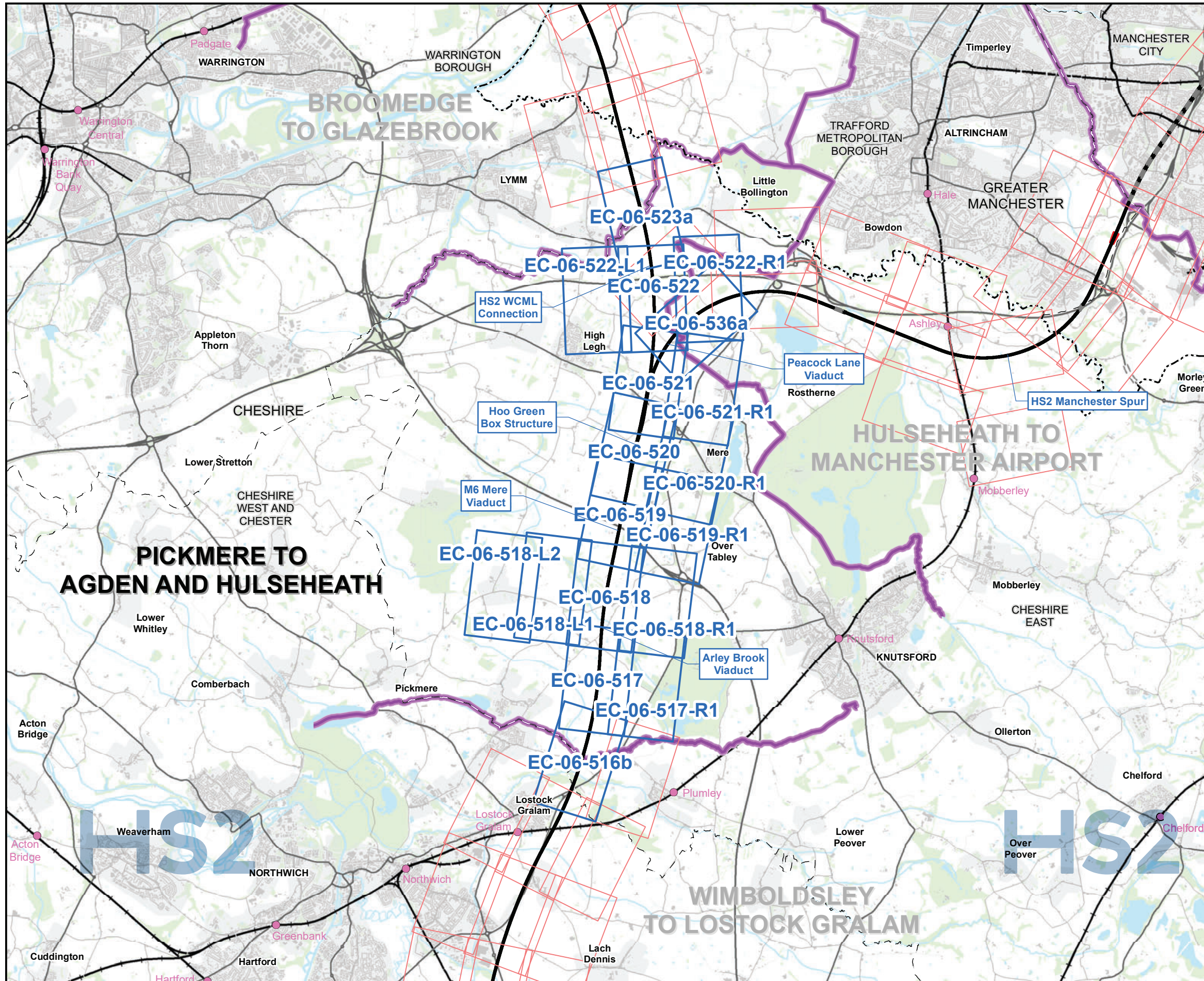
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Date: 12/08/21



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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 sheet included in this community area
  - Map sheet not included in this community area

Map Number: EC-06-INDEX-MA03

Map Name: Index Map of: Bat - Activity

Community Area MA03: Pickmere to Agden and Hulseheath

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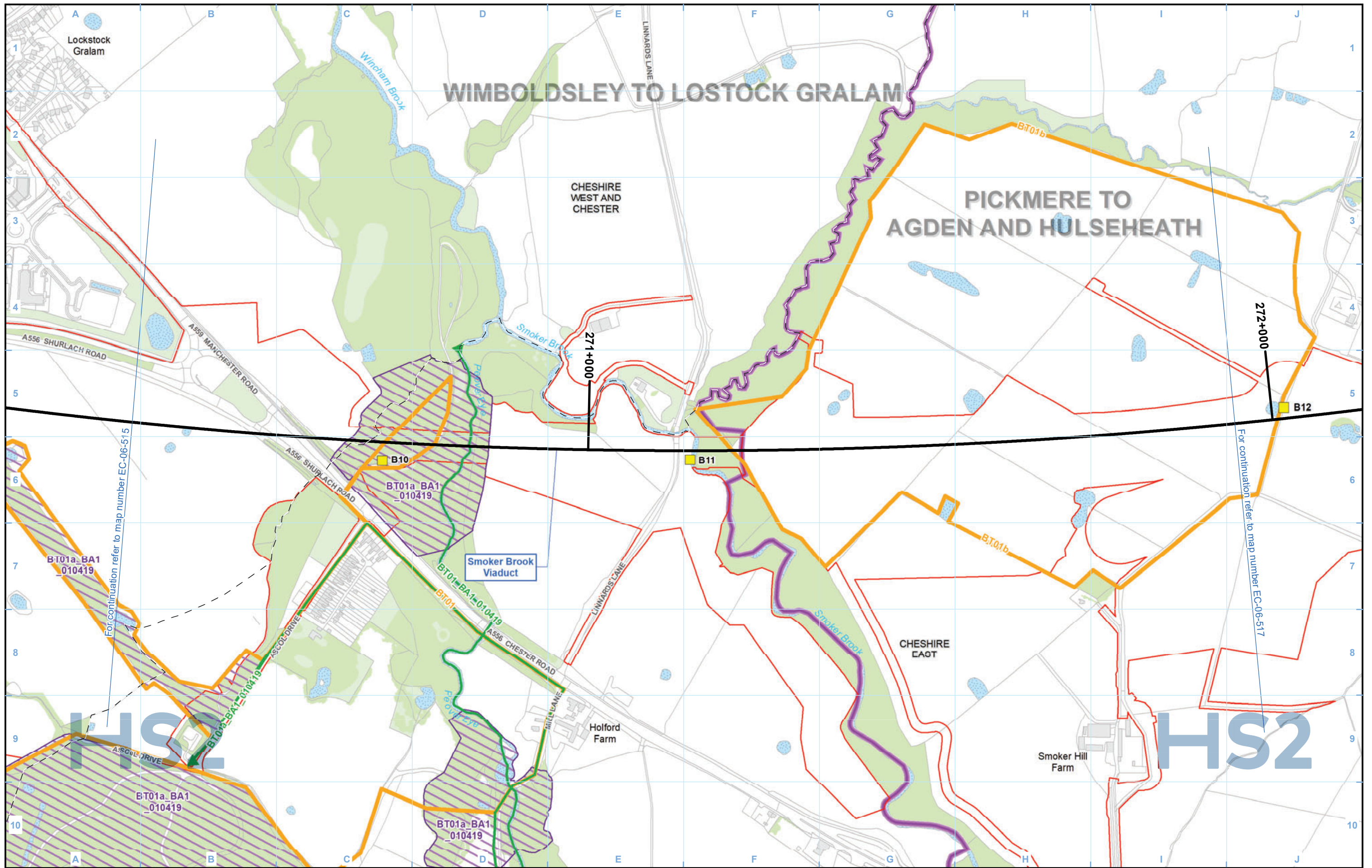
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001103-P01

Date: 12/08/21

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





Legend					
	Route in 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-06-516b
Map Name	Bat - Activity
Community Area MA03: Pickmere to Agden and Hulseheath	

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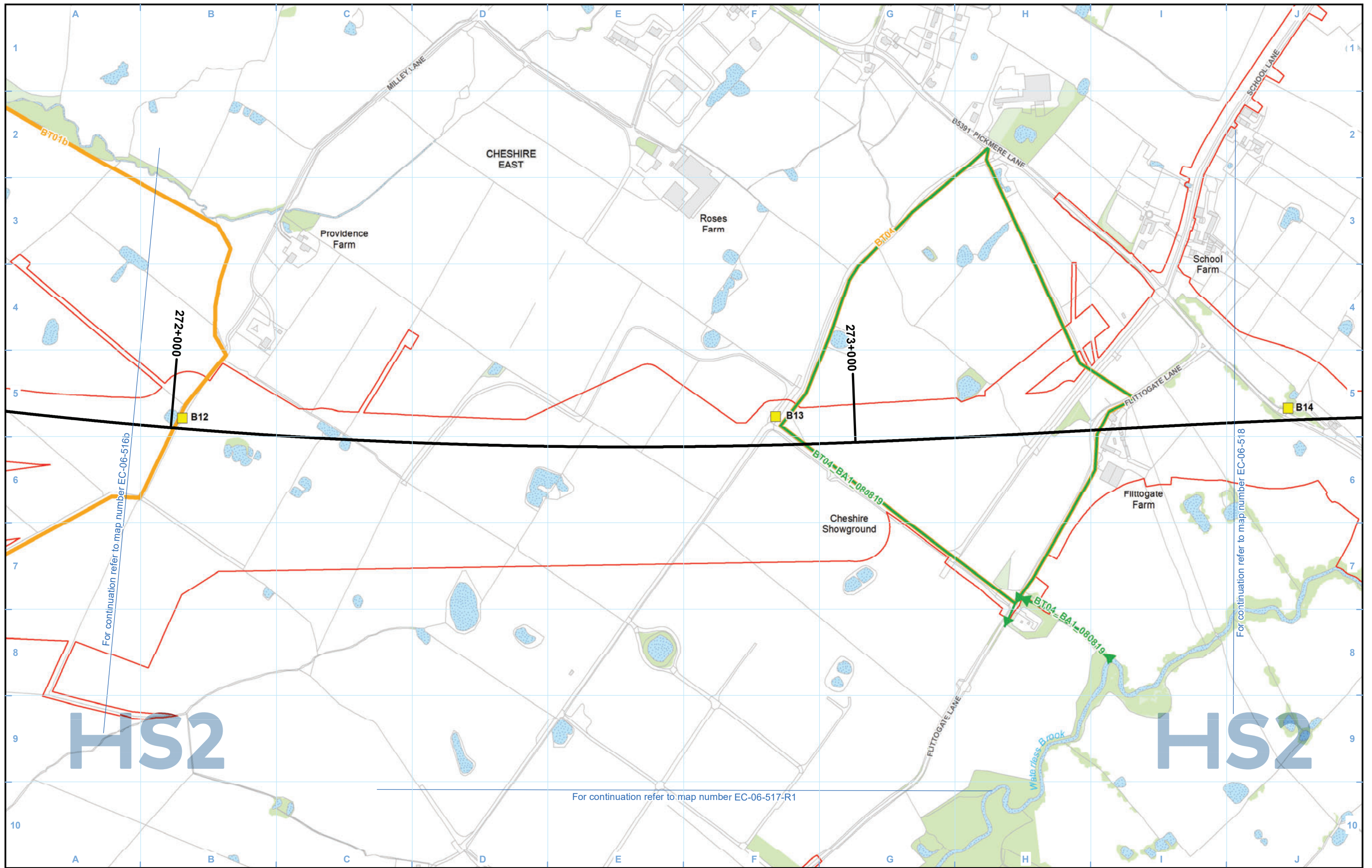
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Metres

Date: 12/08/21





For continuation refer to map number EC-06-516b

For continuation refer to map number EC-06-518

For continuation refer to map number EC-06-517-R1

- Legend**
- Route in 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-06-517
Map Name	Bat - Activity
Community Area MA03: Pickmere to Agden and Hulseheath	

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For continuation refer to map number EC-06-517

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

Map Number	EC-06-517-R1
Map Name	Bat - Activity
Community Area MA03: Pickmere to Agden and Hulseheath	

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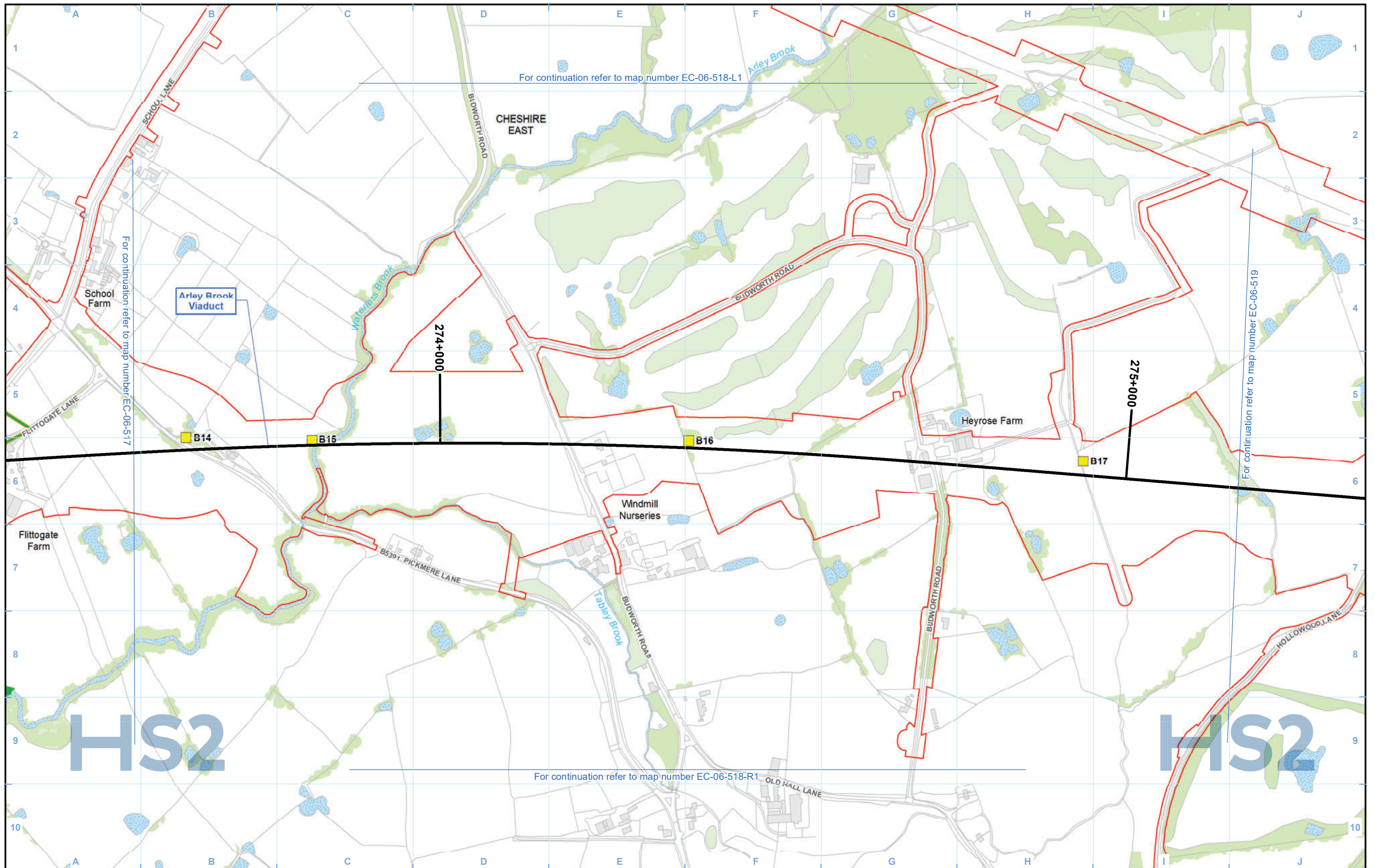
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Scale at A3: 1:5,000

Metres

Date: 12/08/21





For continuation refer to map number EC-06-518-L1

For continuation refer to map number EC-06-517

For continuation refer to map number EC-06-519

For continuation refer to map number EC-06-518-R1

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

Map Number	EC-06-518
Map Name	Bat - Activity
Community Area MA03: Pickmere to Agden and Hulseheath	

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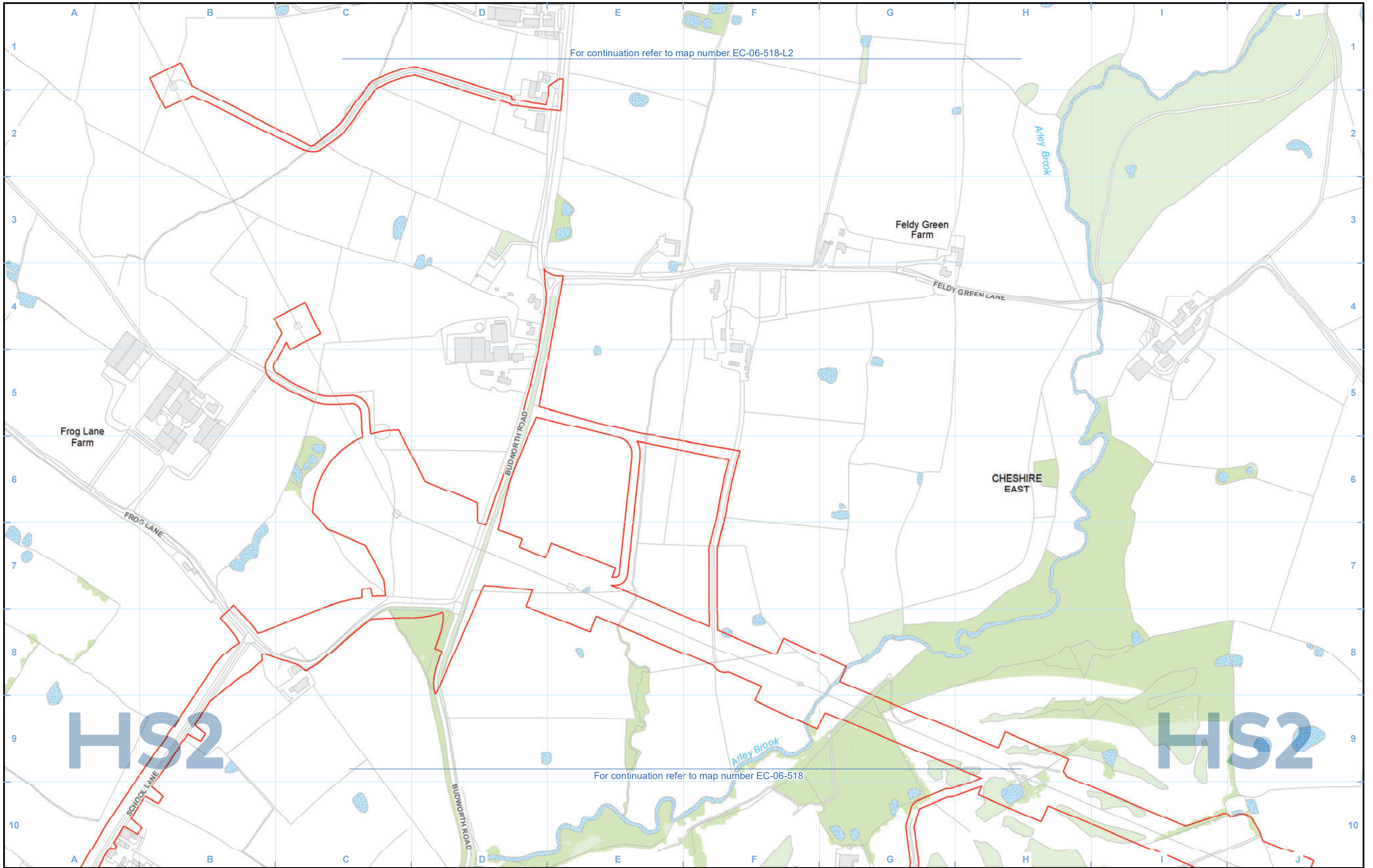
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Scale at A3: 1:5,000

Metres

Date: 12/08/21





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

Map Number	EC-06-518-L1
Map Name	Bat - Activity
Community Area MA03: Pickmere to Agden and Hulseheath	

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For continuation refer to map number EC-06-518-L1

**Legend**

- Route in 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-06-518-L2
Map Name	Bat - Activity
Community Area MA03: Pickmere to Agden and Hulseheath	

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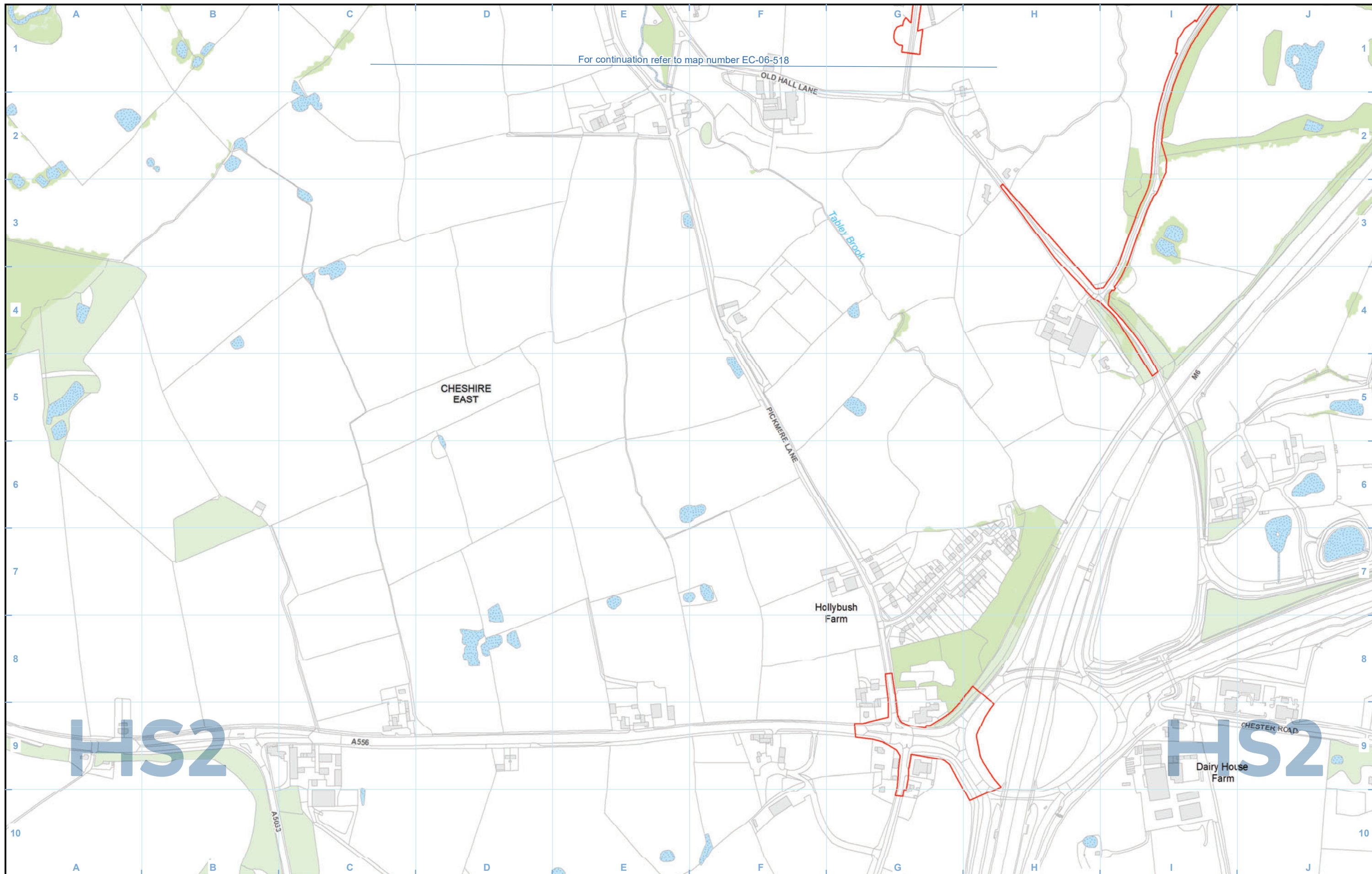
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For continuation refer to map number EC-06-518



Legend					
	Route in 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-06-518-R1
Map Name	Bat - Activity
Community Area MA03: Pickmere to Agden and Hulseheath	

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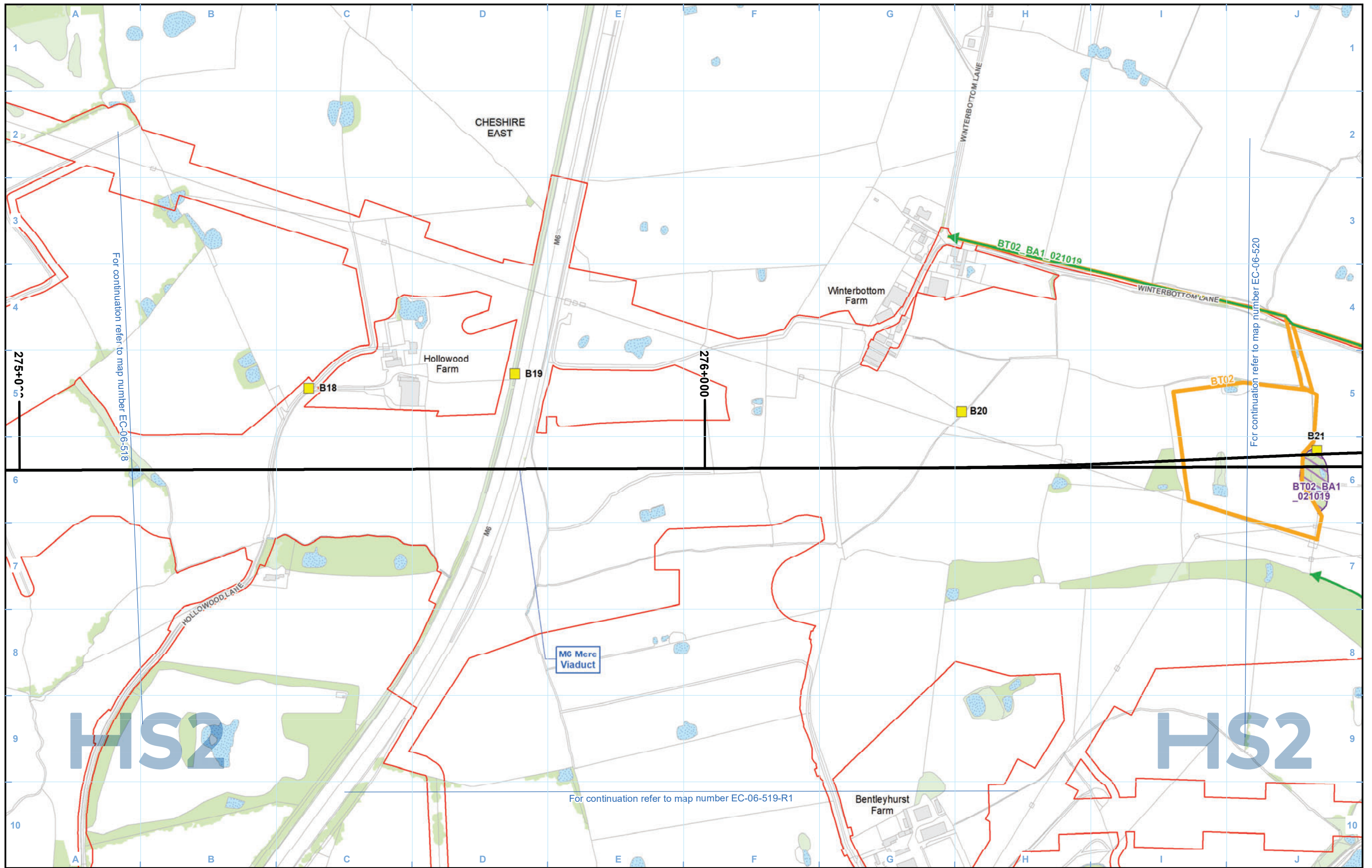
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**Legend**

Route in 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-06-519
Map Name	Bat - Activity
Community Area MA03: Pickmere to Agden and Hulseheath	

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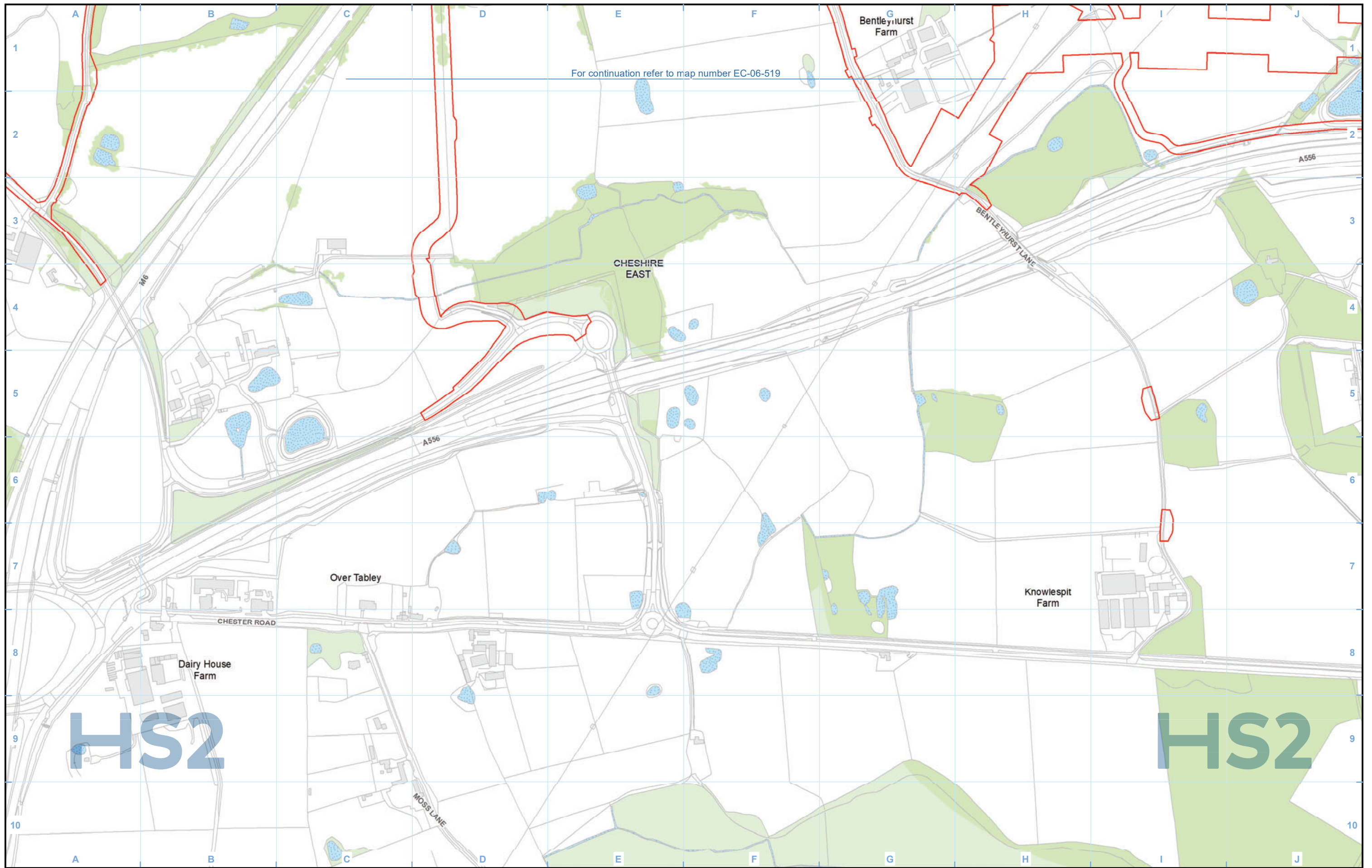
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Metres

Date: 12/08/21





For continuation refer to map number EC-06-519

**Legend**

- Route in 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-06-519-R1

Map Name: Bat - Activity

Community Area MA03:  
Pickmere to Agden and Hulseheath

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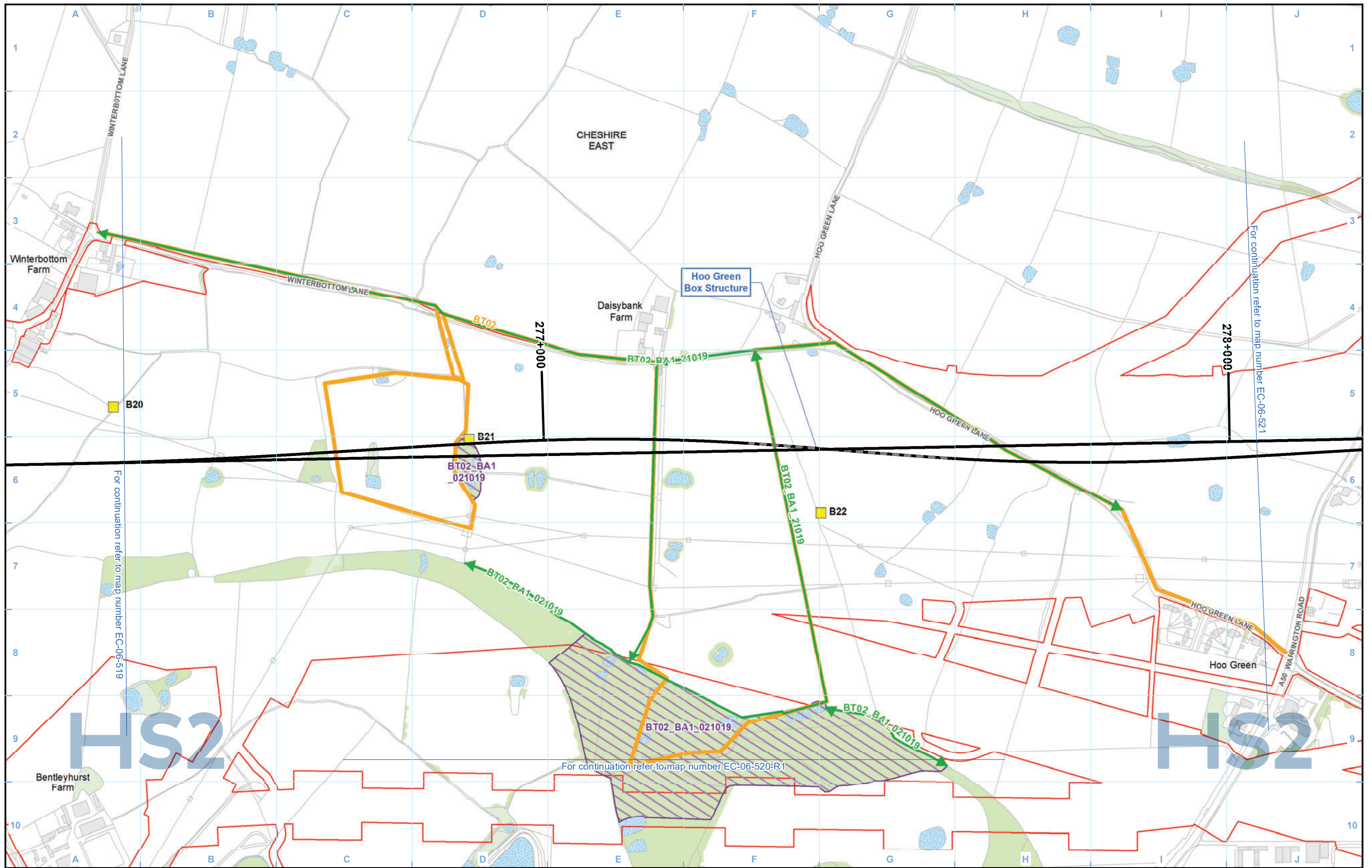
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Date: 12/08/21





**Legend**

Route in 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-06-520
Map Name	Bat - Activity
Community Area MA03: Pickmere to Agden and Hulseheath	

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Metres

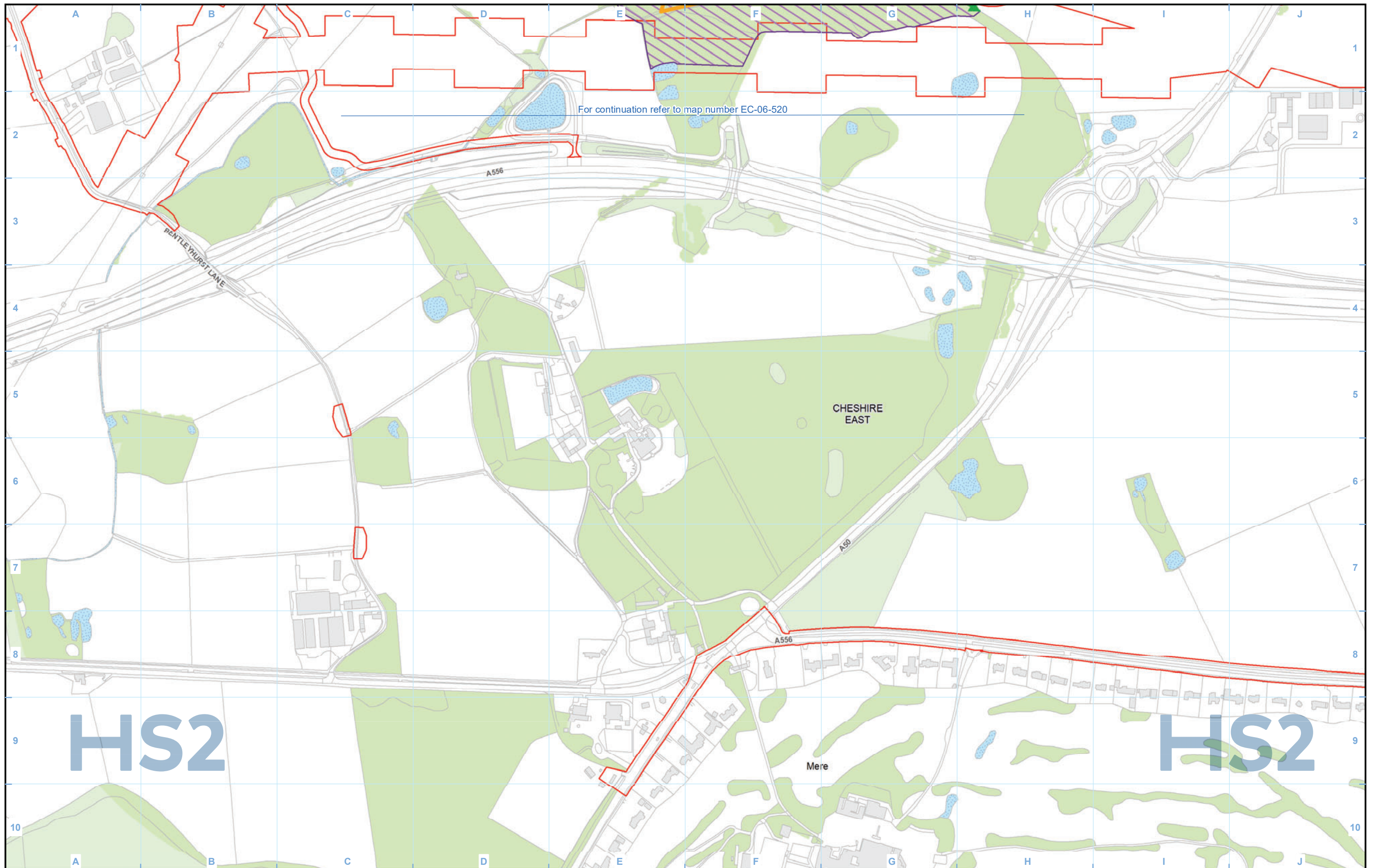
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For continuation refer to map number EC-06-519

For continuation refer to map number EC-06-521

For continuation refer to map number EC-06-520-R1





**Legend**

- Route in 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-06-520-R1
Map Name	Bat - Activity
Community Area MA03: Pickmere to Agden and Hulseheath	

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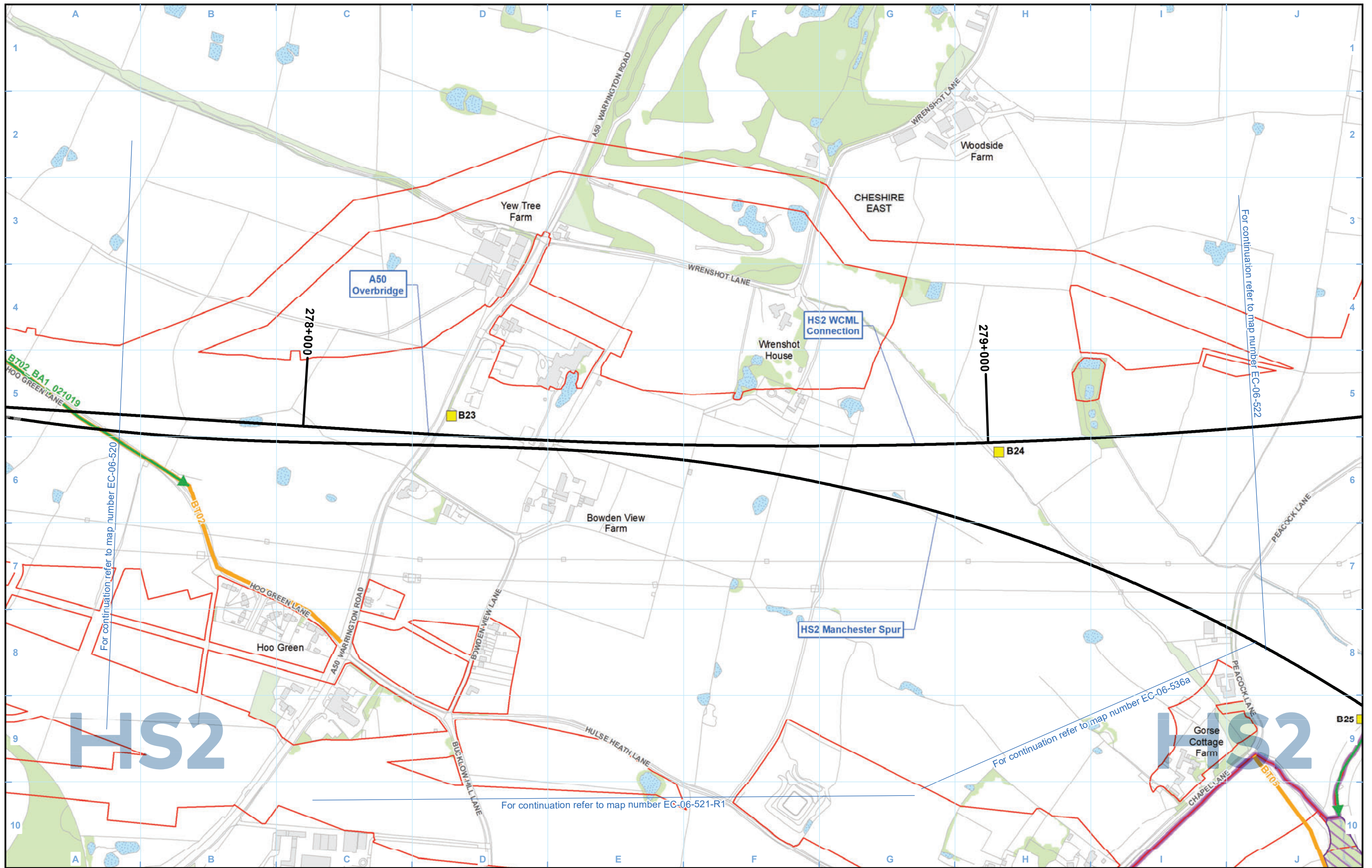
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Scale at A3: 1:5,000

Metres

**Date:** 12/08/21





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

Map Number	EC-06-521
Map Name	Bat - Activity
Community Area MA03: Pickmere to Agden and Hulseheath	

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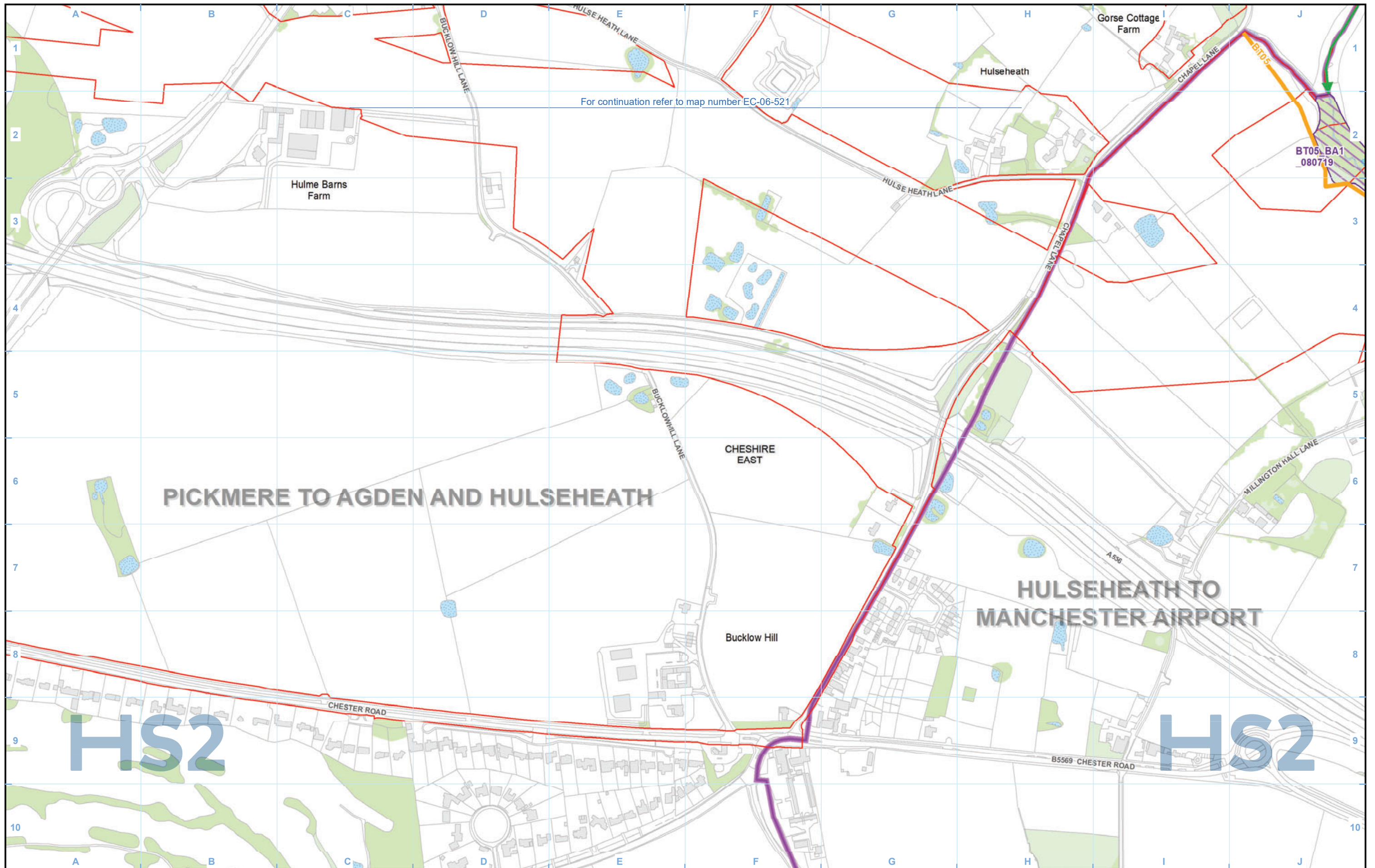
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Scale at A3: 1:5,000

Metres

Date: 12/08/21





For continuation refer to map number EC-06-521

BT05\_BA1  
080719

**Legend**

- Route in 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-06-521-R1

Map Name: Bat - Activity

Community Area MA03:  
Pickmere to Agden and Hulseheath

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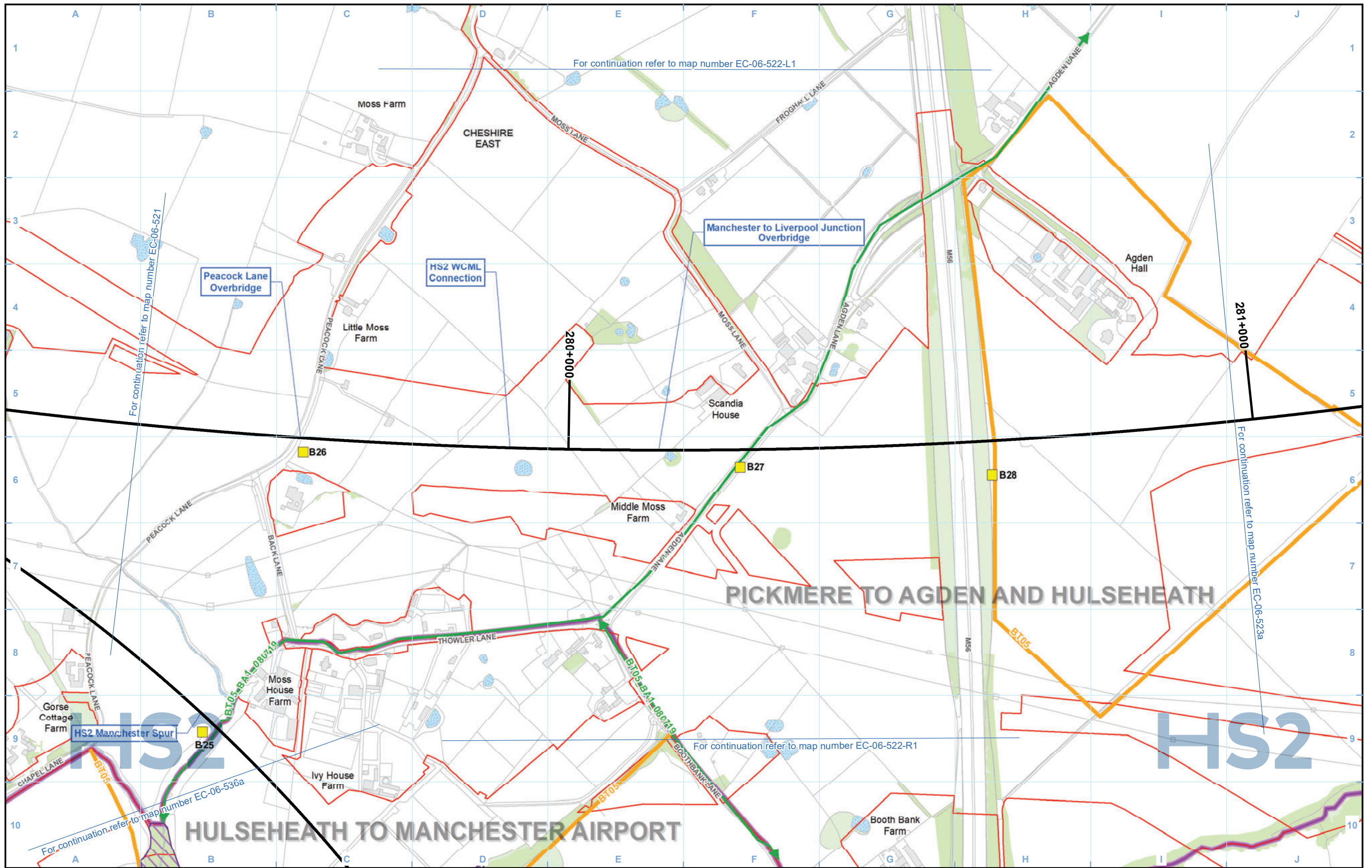
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003185-P01

Date: 12/08/21





**Legend**

Route in 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-06-522
Map Name	Bat - Activity
Community Area MA03: Pickmere to Agden and Hulseheath	

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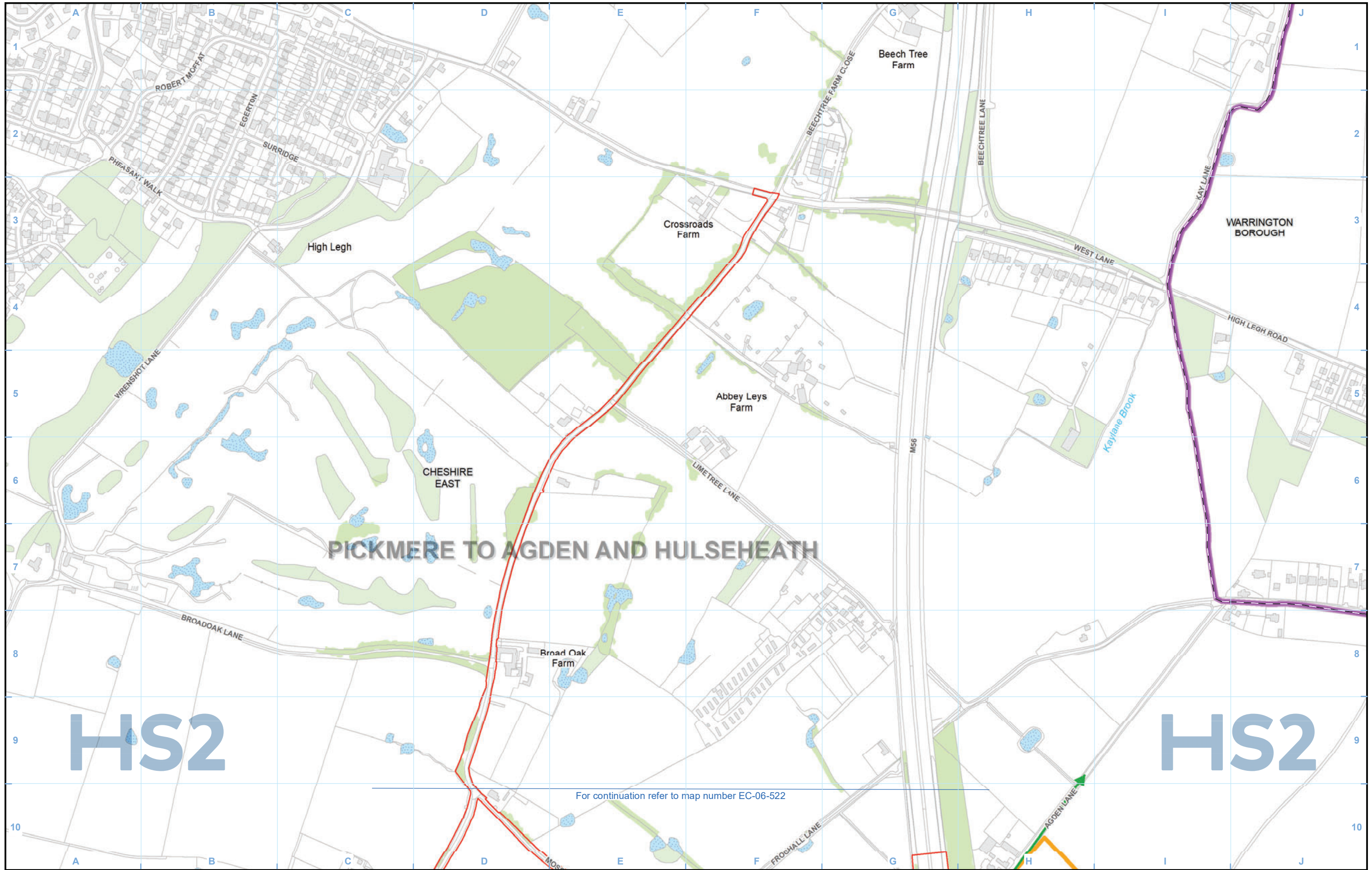
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Scale at A3: 1:5,000

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Metres

Date: 12/08/21





PICKMERE TO AGDEN AND HULSEHEATH

For continuation refer to map number EC-06-522

- Legend**
- Route in 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-06-522-L1
Map Name	Bat - Activity
Community Area MA03: Pickmere to Agden and Hulseheath	

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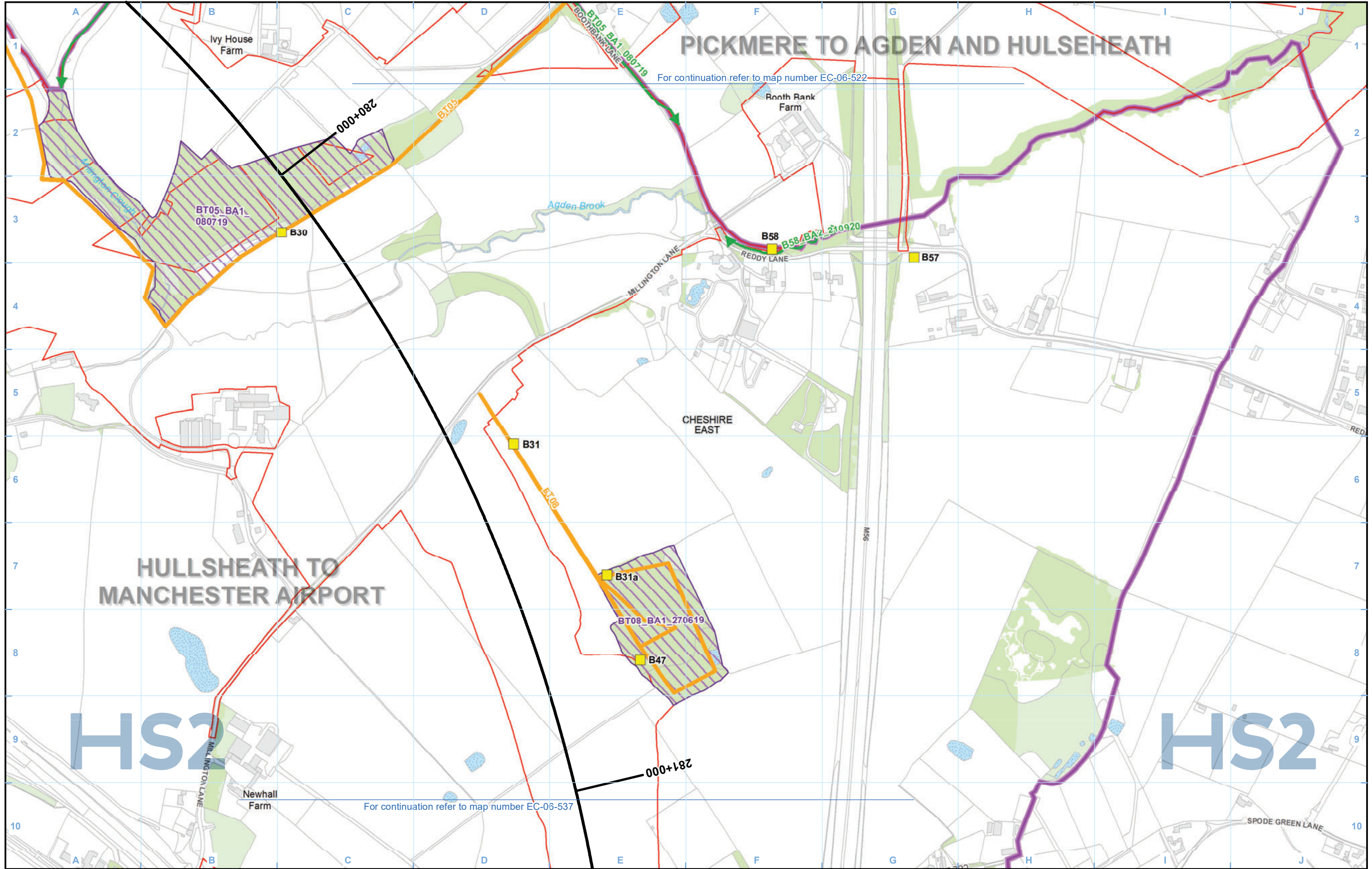
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Date: 12/08/21



# PICKMERE TO AGDEN AND HULSEHEATH

For continuation refer to map number EC-06-522



HULLSHEATH TO MANCHESTER AIRPORT

HS2

HS2

For continuation refer to map number EC-06-537

- Legend**
- Route in 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-06-522-R1
Map Name	Bat - Activity
Community Area MA03: Pickmere to Agden and Hulseheath	

**HS2**

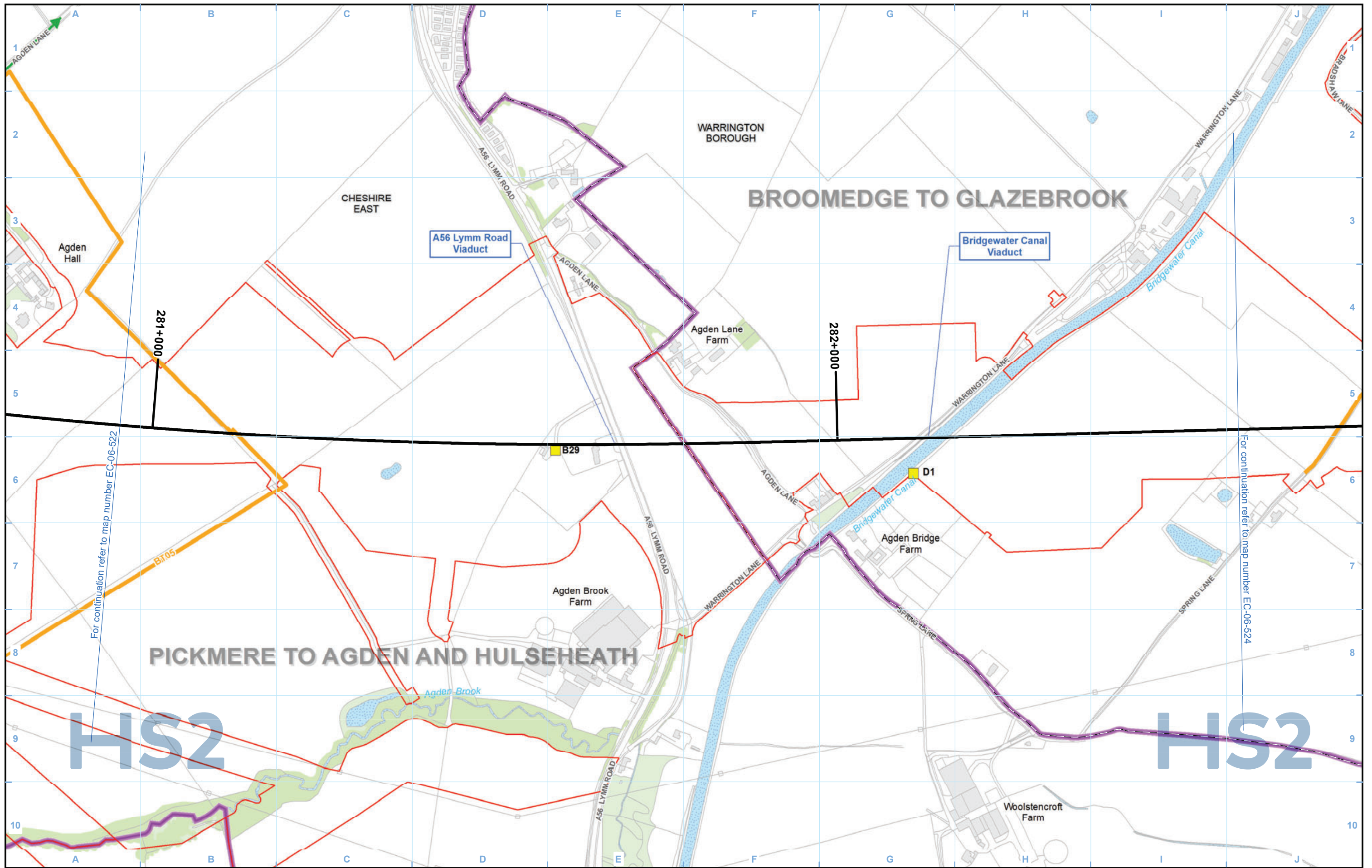
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Legend			
	Route in tunnel		Bat activity static detector location
	Route on surface		Activity transect route
	Depot, station, headhouse or portal building		Assumed key commuting route
	Land potentially required during construction		Assumed key areas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

Map Number	EC-06-523a
Map Name	Bat - Activity
Community Area MA03: Pickmere to Agden and Hulseheath	

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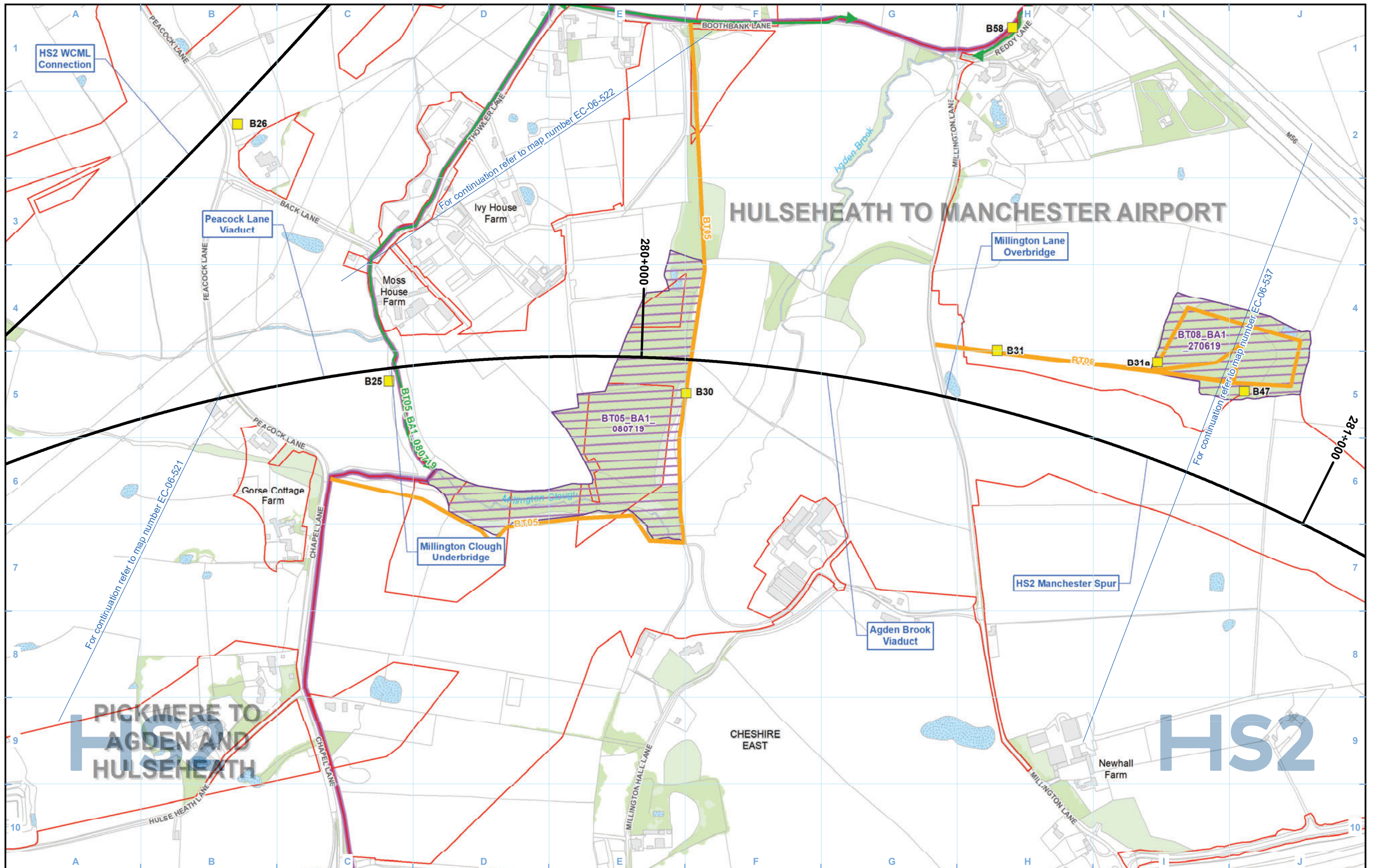
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**Legend**

- Route in 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-06-536a

Map Name: Bat - Activity

Community Area MA03:  
Pickmere to Agden and Hulseheath

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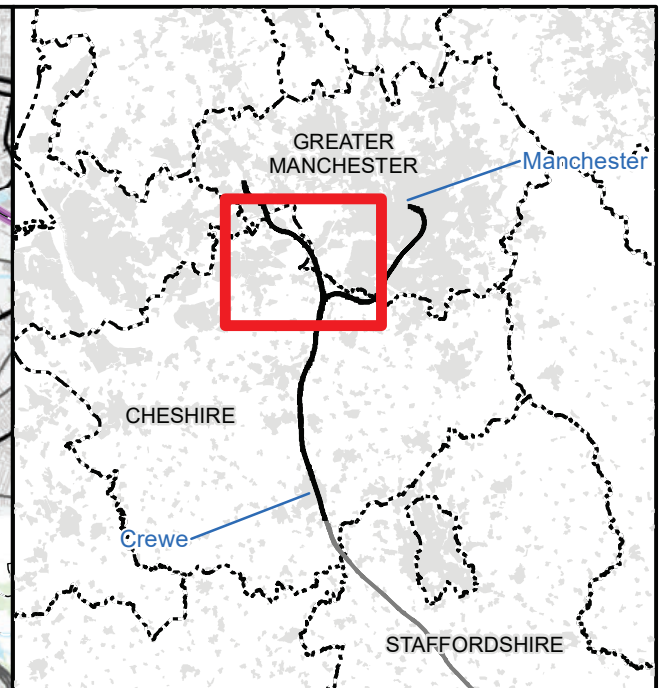
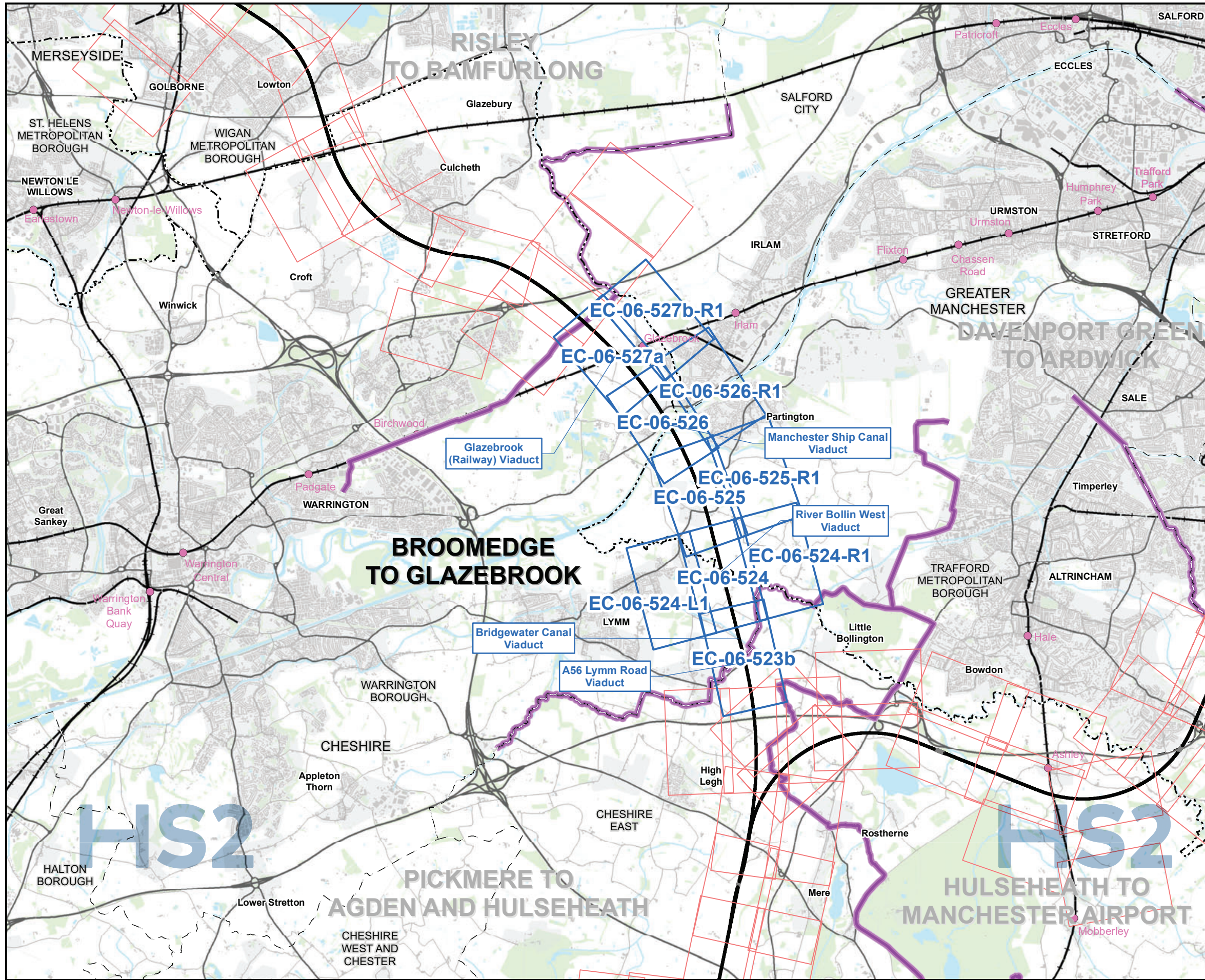
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**Map Series Information:**

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 sheet included in this community area
- Map sheet not included in this community area

Map Number EC-06-INDEX-MA04

Map Name  
**Index Map of:  
Bat - Activity**

Community Area MA04:  
Broomedge to Glazebrook

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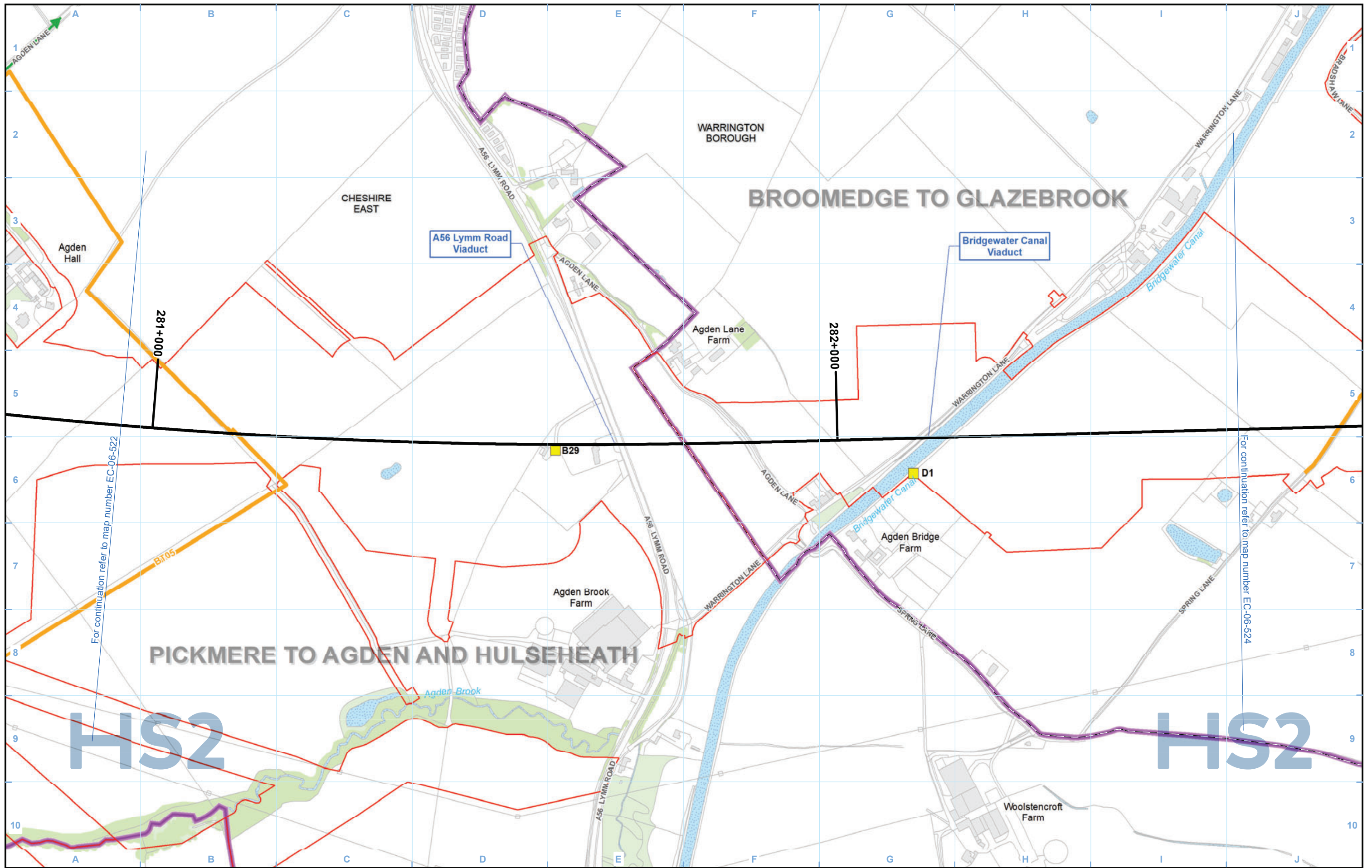
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Legend			
	Route in tunnel		Bat activity static detector location
	Route on surface		Activity transect route
	Depot, station, headhouse or portal building		Assumed key commuting route
	Land potentially required during construction		Assumed key areas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

Map Number	EC-06-523b
Map Name	Bat - Activity
Community Area MA04: Broomedge to Glazebrook	

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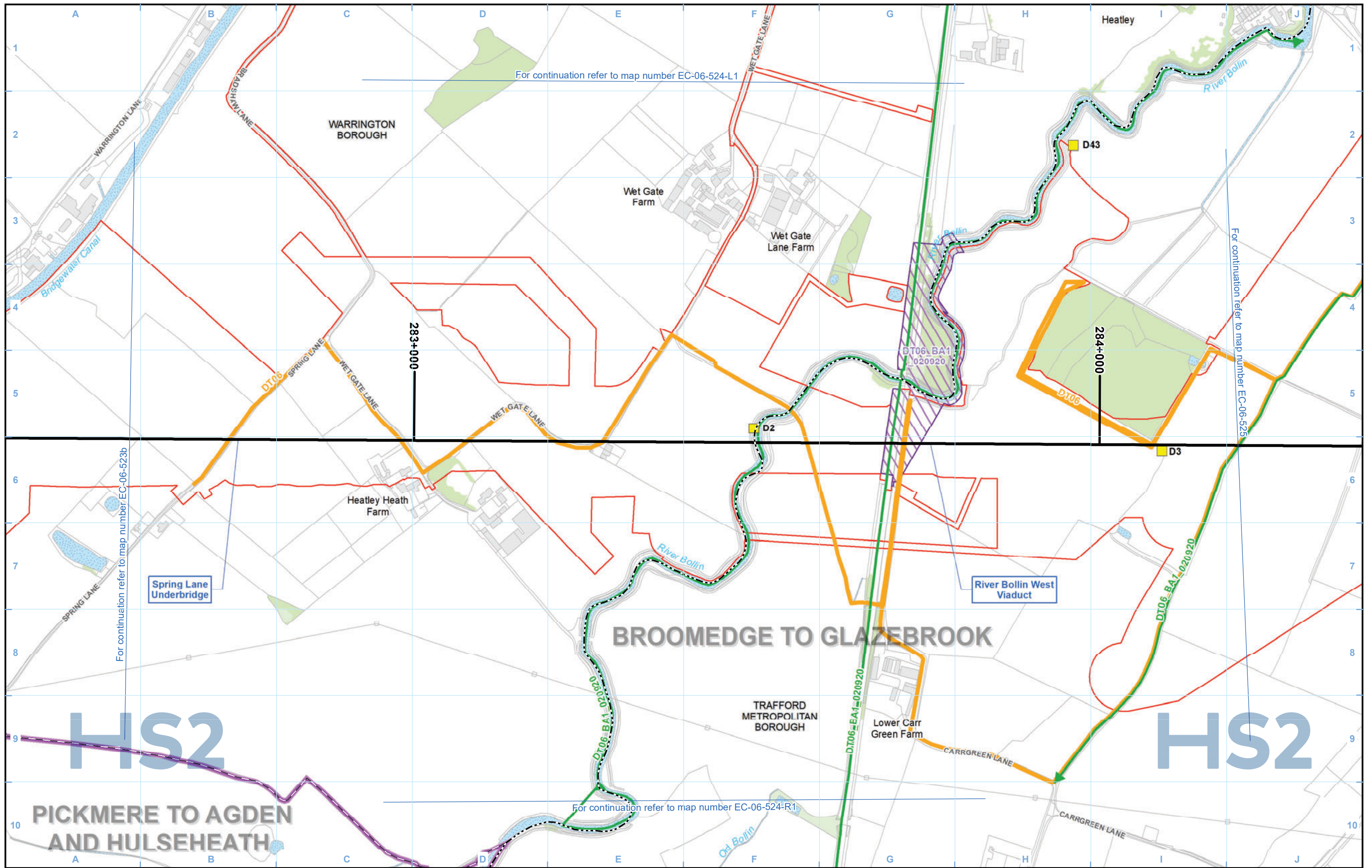
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Legend		

Map Number	EC-06-524
Map Name	Bat - Activity
Community Area MA04: Broomedge to Glazebrook	

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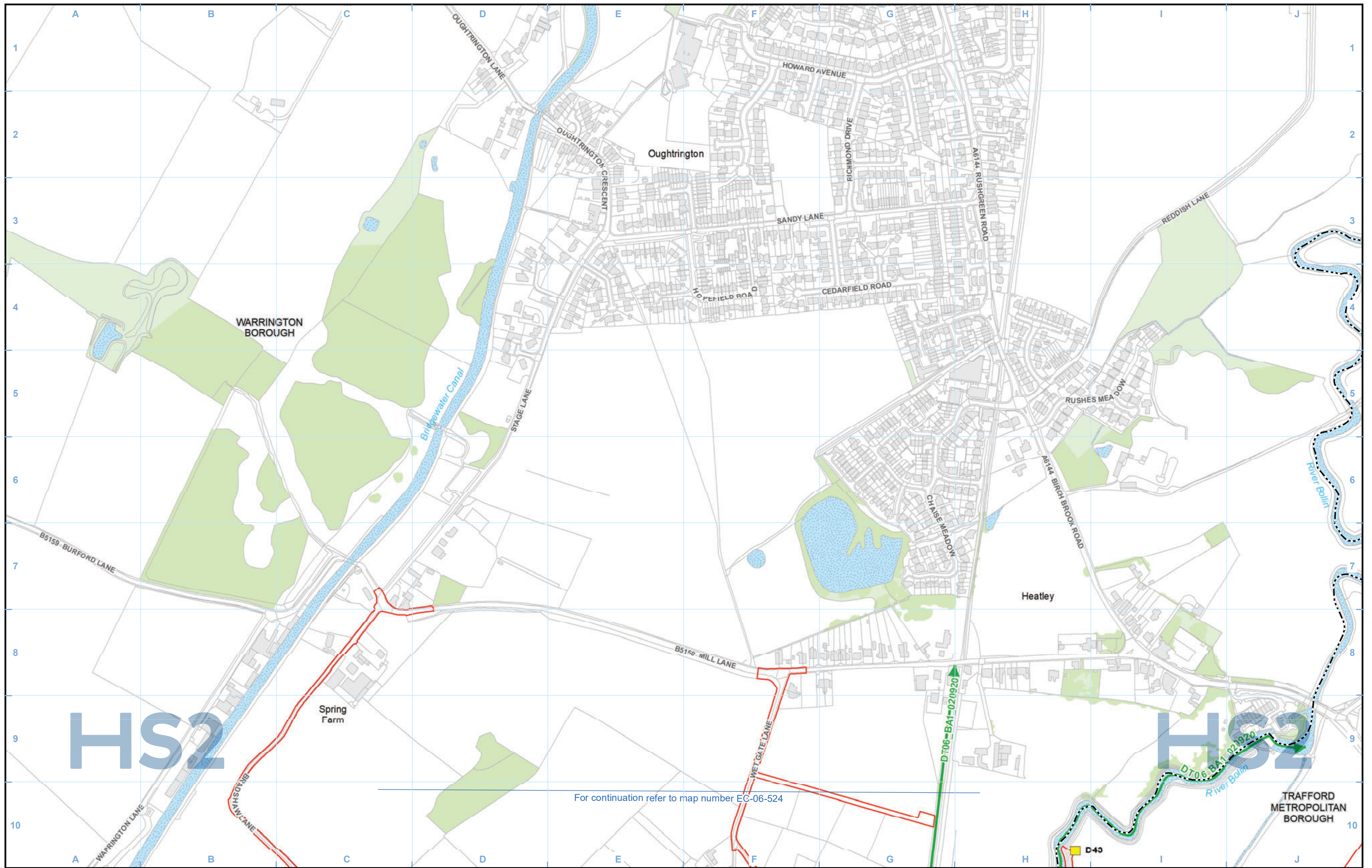
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For continuation refer to map number EC-06-524

**Legend**


Map Number	EC-06-524-L1
Map Name	Bat - Activity
	Community Area MA04: Broomedged to Glazebrook

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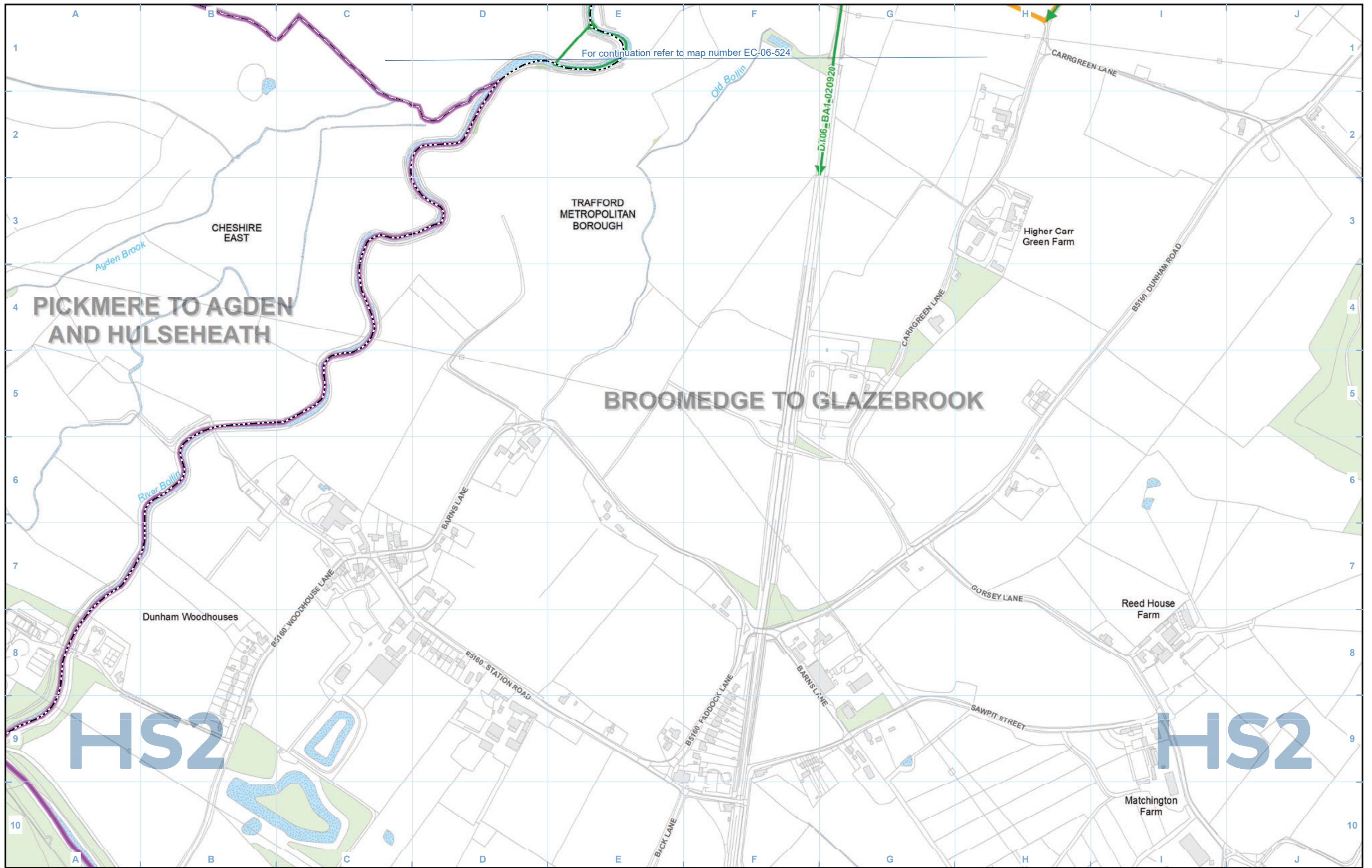
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Legend		

Map Number	EC-06-524-R1
Map Name	Bat - Activity
	Community Area MA04: Broomedge to Glazebrook

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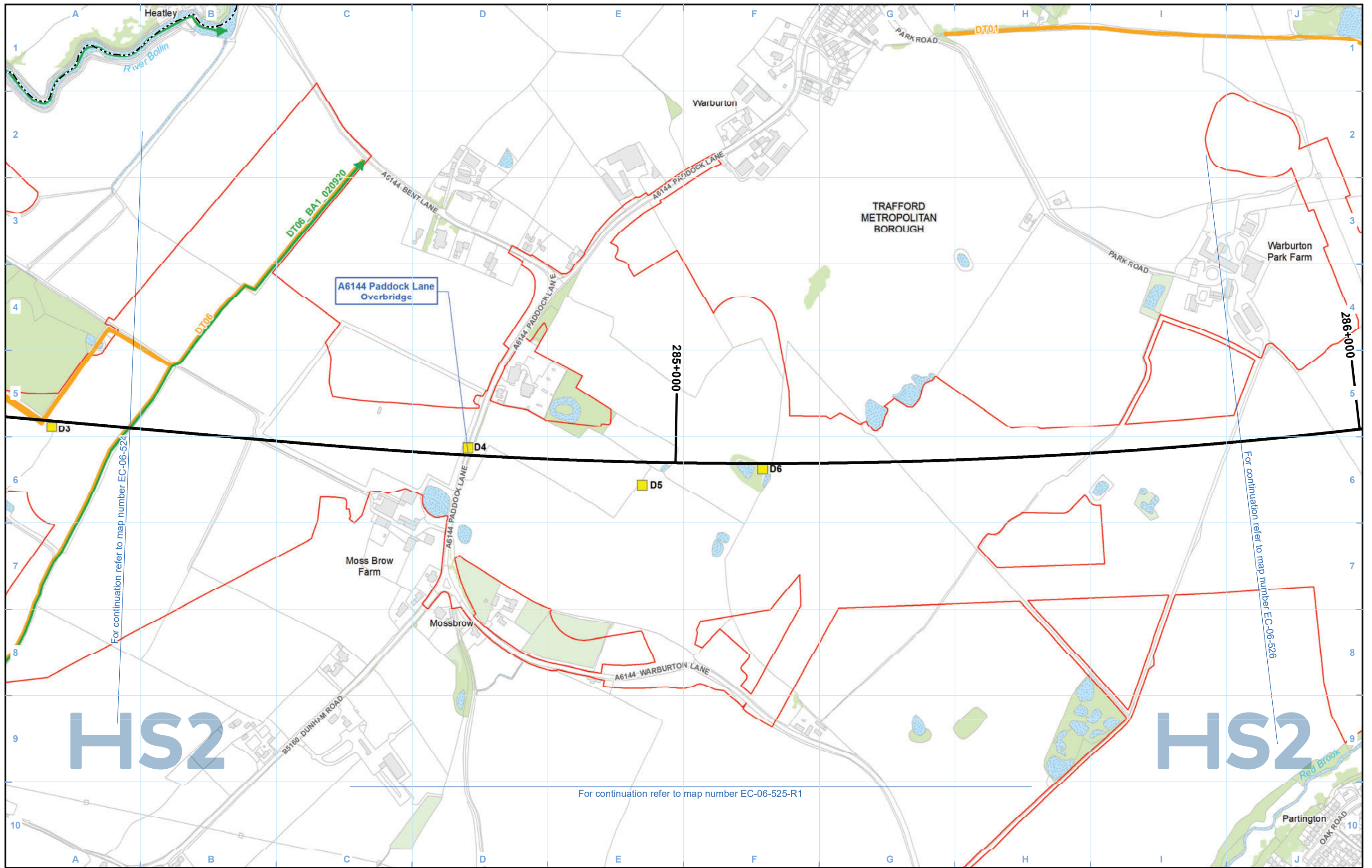
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**Legend**

- Route in 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-06-525
Map Name	Bat - Activity
Community Area MA04: Broomedged to Glazebrook	

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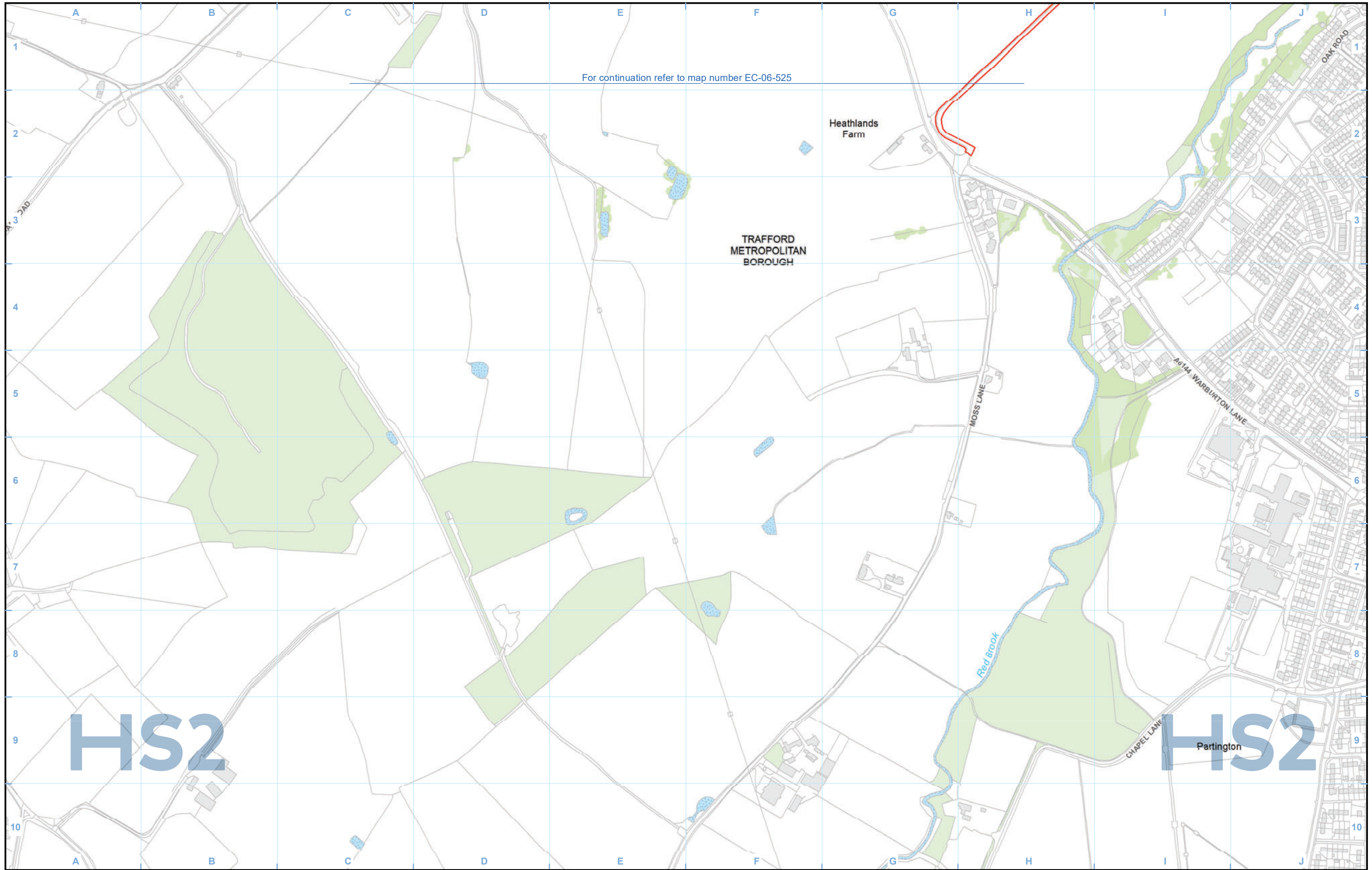
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For continuation refer to map number EC-06-525

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Legend					
	Route in 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-06-525-R1
Map Name	Bat - Activity
	Community Area MA04: Broomedge to Glazebrook

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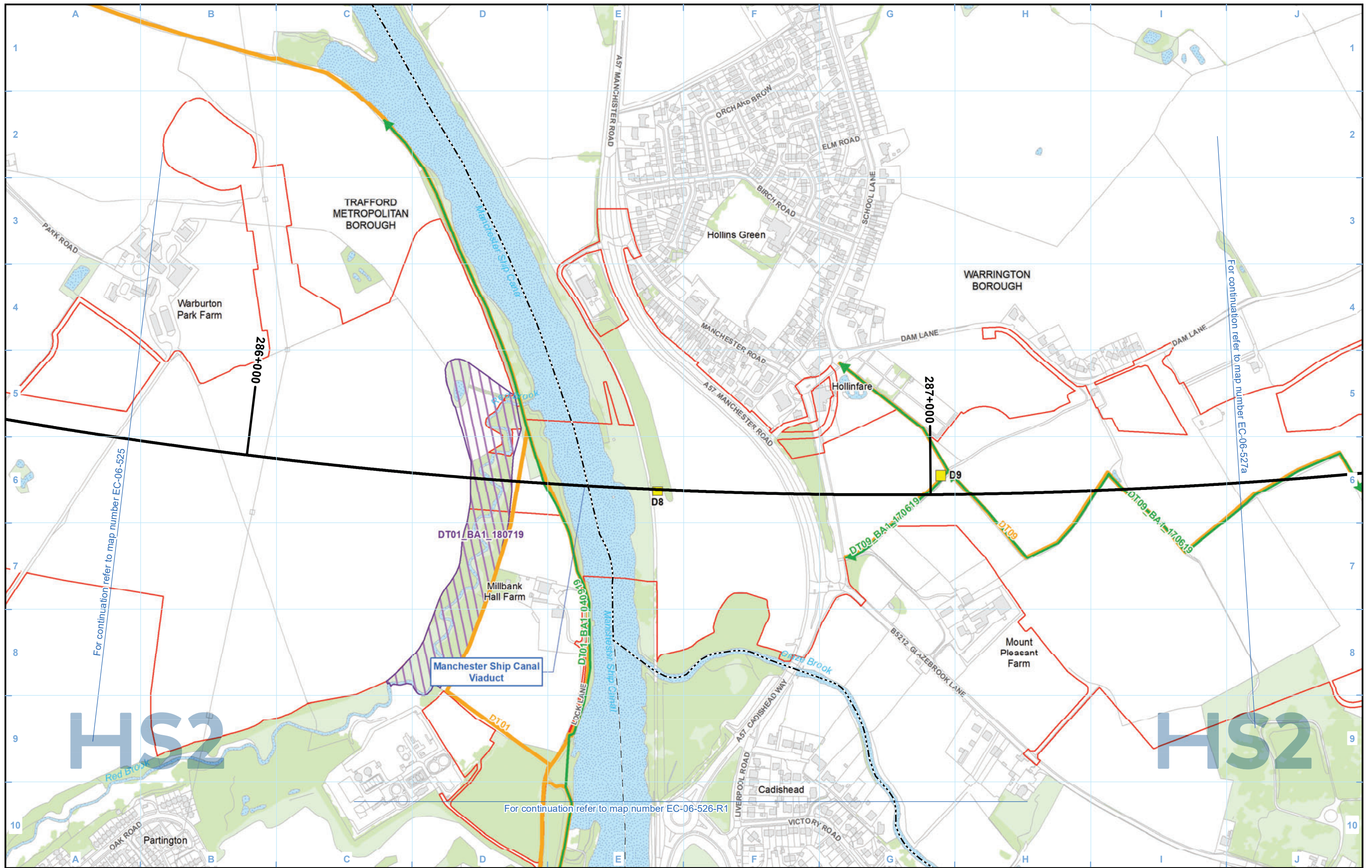
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For continuation refer to map number EC-06-525

For continuation refer to map number EC-06-527a

For continuation refer to map number EC-06-526-R1

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

Map Number	EC-06-526
Map Name	Bat - Activity
Community Area MA04: Broomedged to Glazebrook	

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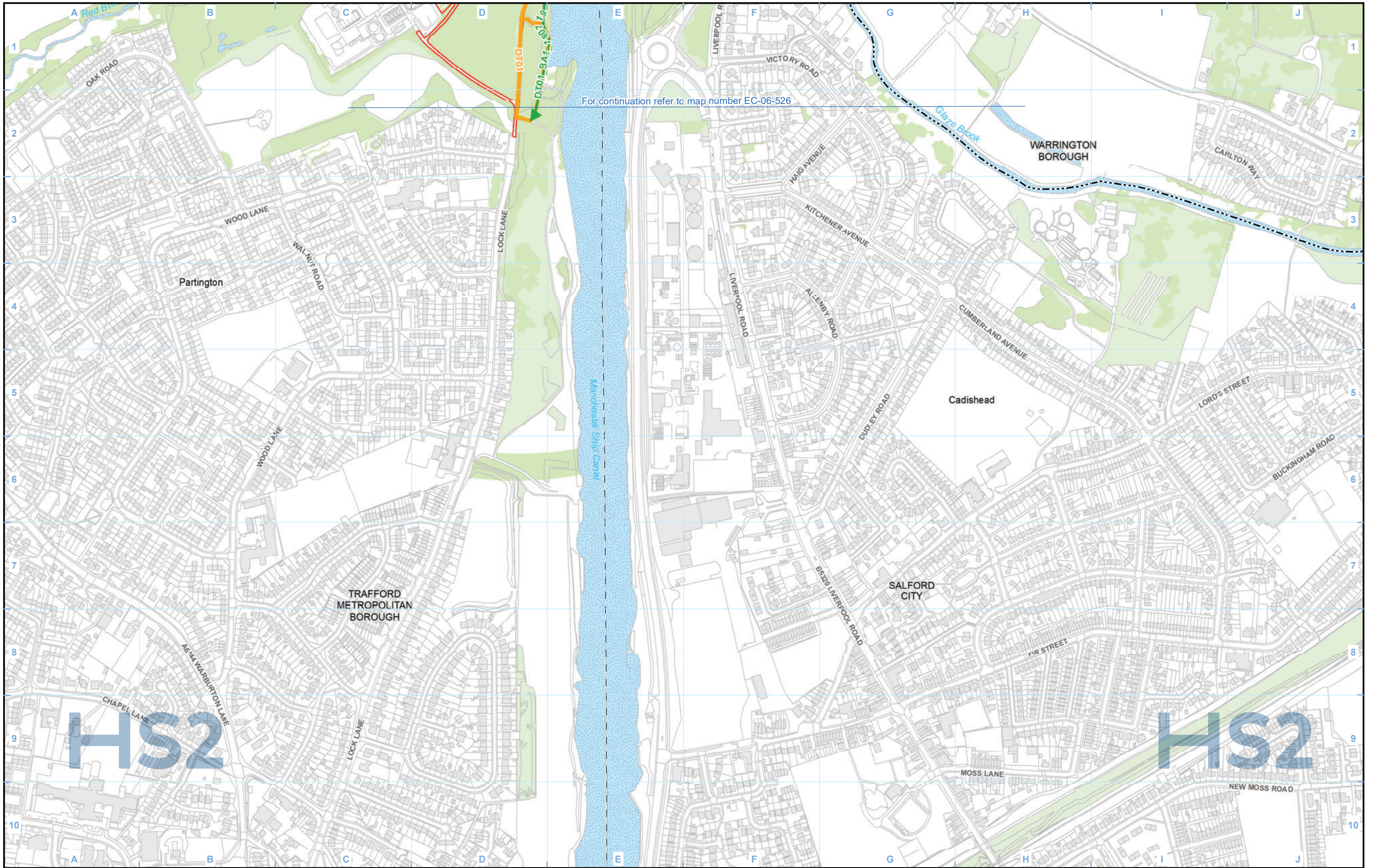
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Metres

Date: 12/08/21





For continuation refer to map number EC-06-526

Legend	
	Route in 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-06-526-R1
Map Name	Bat - Activity
	Community Area MA04: Broomedged to Glazebrook

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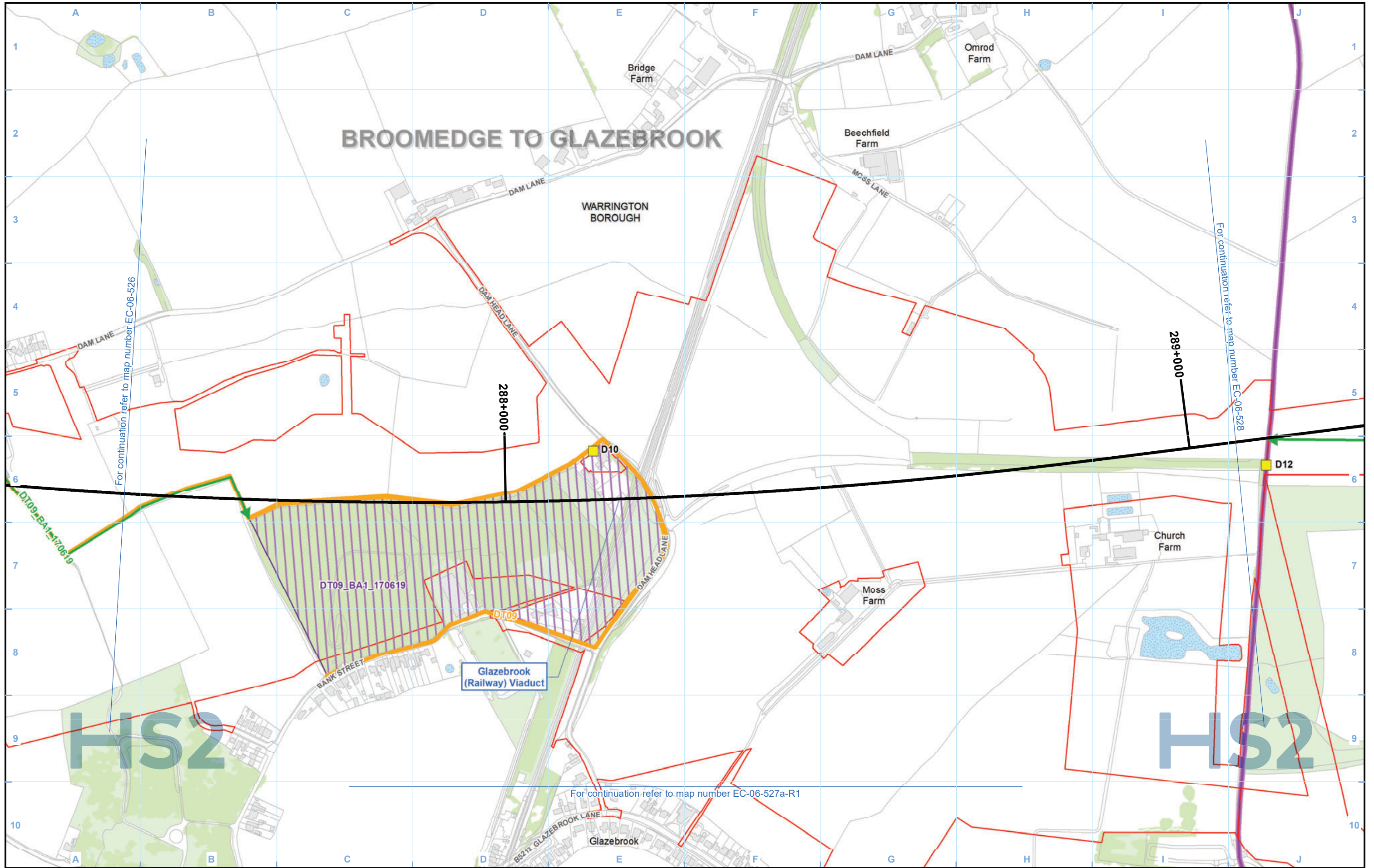
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Metres

Date: 12/08/21





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

Map Number	EC-06-527a
Map Name	Bat - Activity
Community Area MA04: Broomedge to Glazebrook	

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For continuation refer to map number EC-06-527a

# BROOMEDGE TO GLAZEBROOK

- Legend**
- Route in 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-06-527a-R1
Map Name	Bat - Activity
Community Area MA04: Broomedge to Glazebrook	

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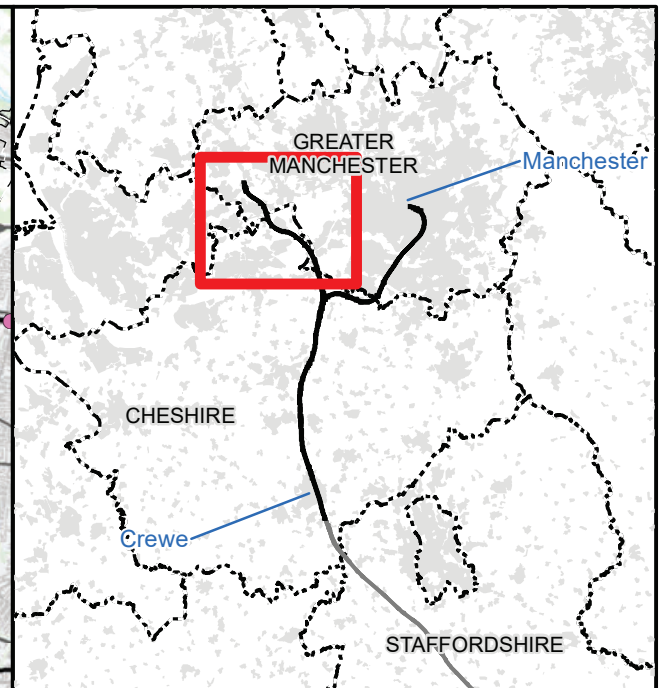
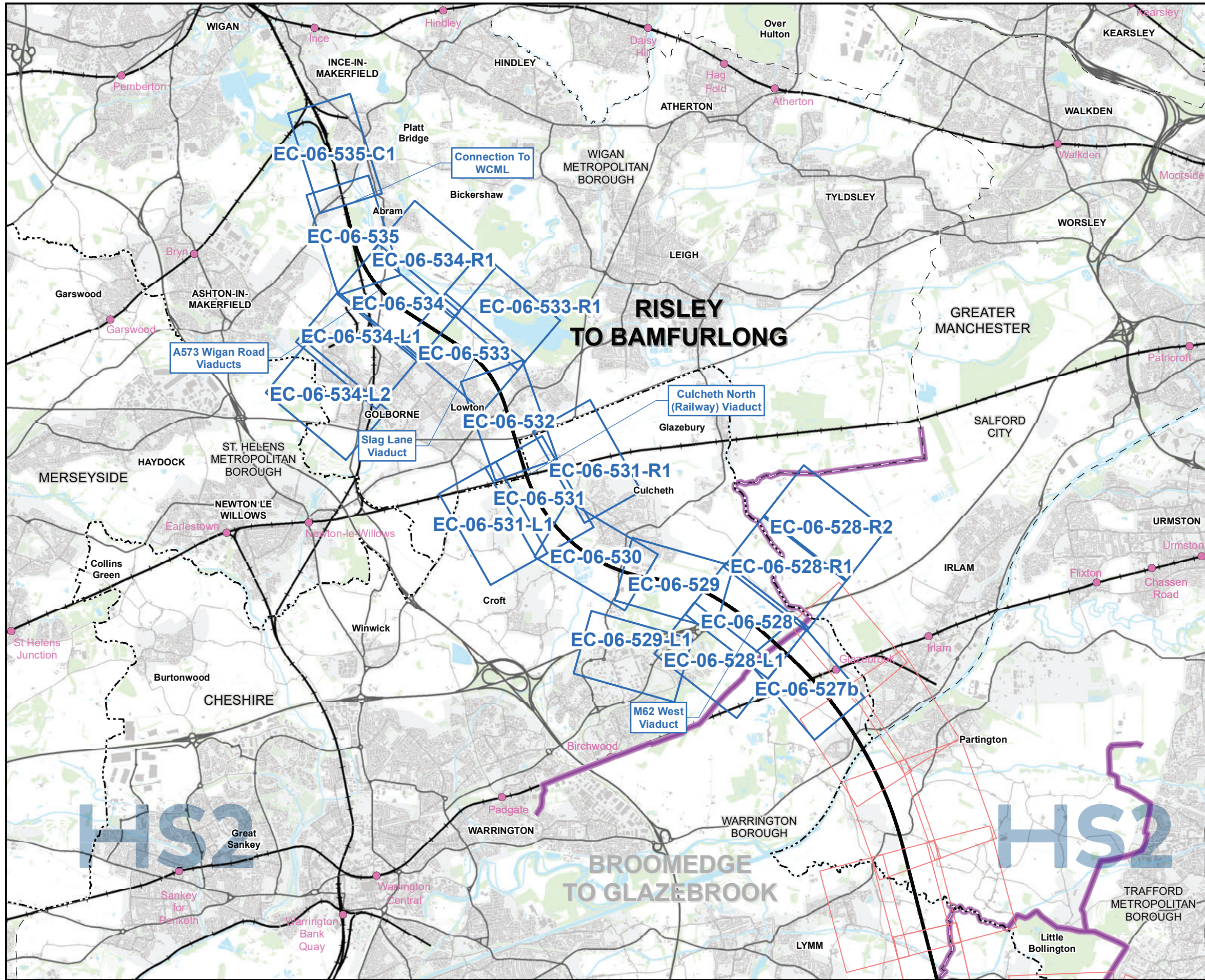
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**Map Series Information:**

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 sheet included in this community area
  - Map sheet not included in this community area

Map Number: EC-06-INDEX-MA05

Map Name: Index Map of: Bat - Activity

Community Area MA05: Risley to Bamfurlong

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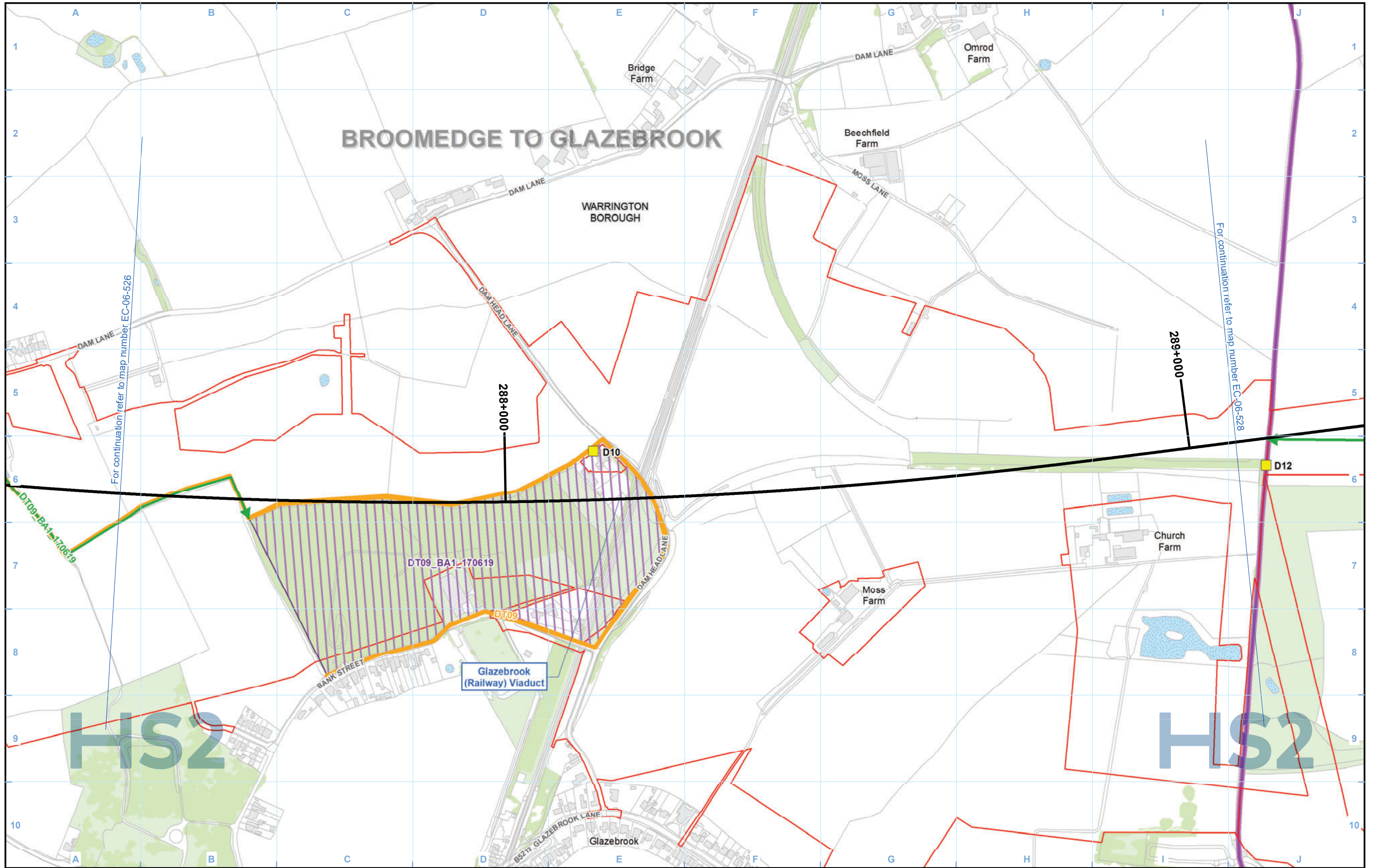
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Legend		

Map Number	EC-06-527b
Map Name	Bat - Activity
Community Area MA05: Risley to Bamfurlong	

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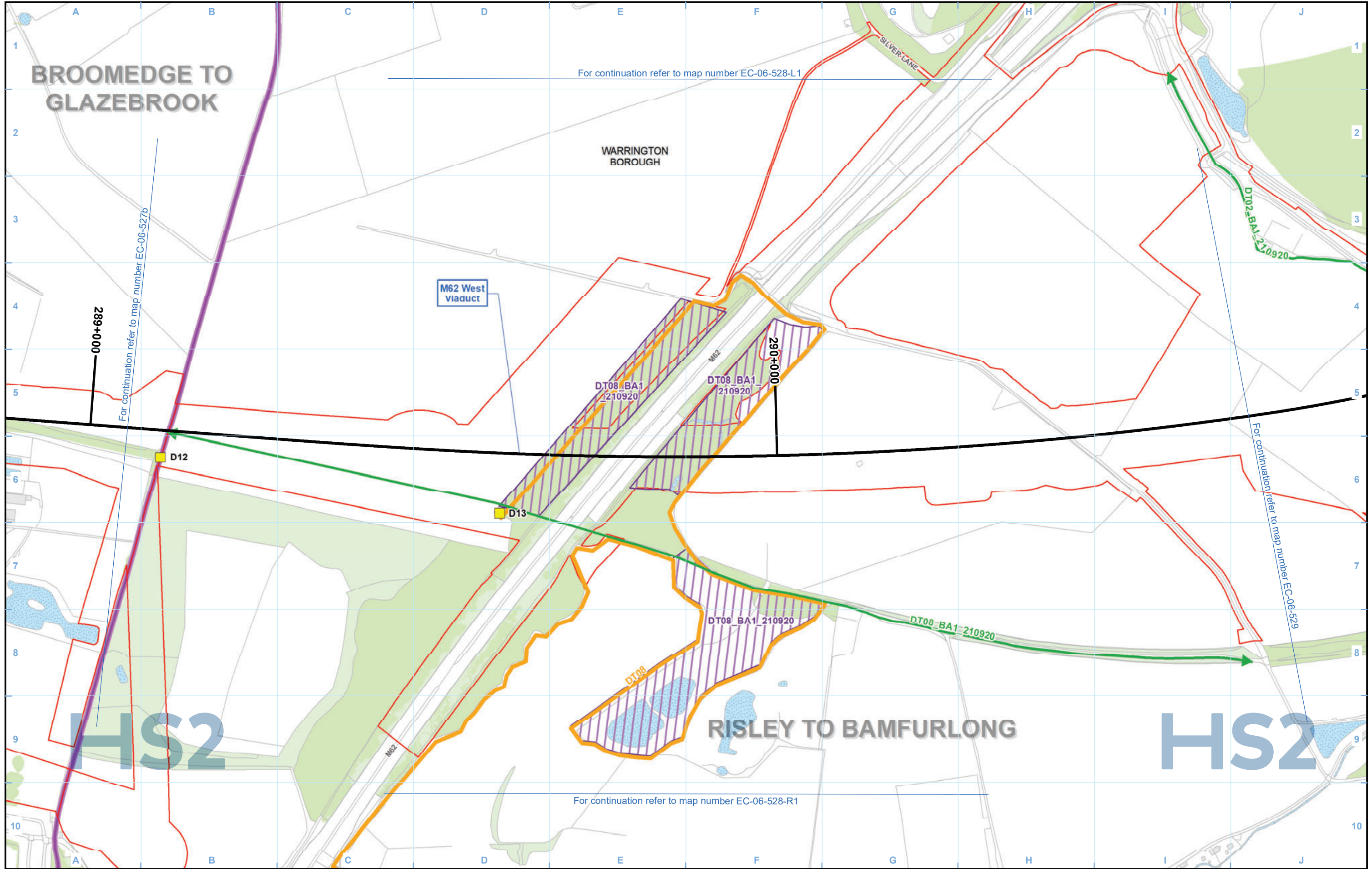
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Legend			
	Route in tunnel		Bat activity static detector location
	Route on surface		Activity transect route
	Depot, station, headhouse or portal building		Assumed key commuting route
	Land potentially required during construction		Assumed key areas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

Map Number	EC-06-528
Map Name	Bat - Activity
	Community Area MA05: Risley to Bamfurlong

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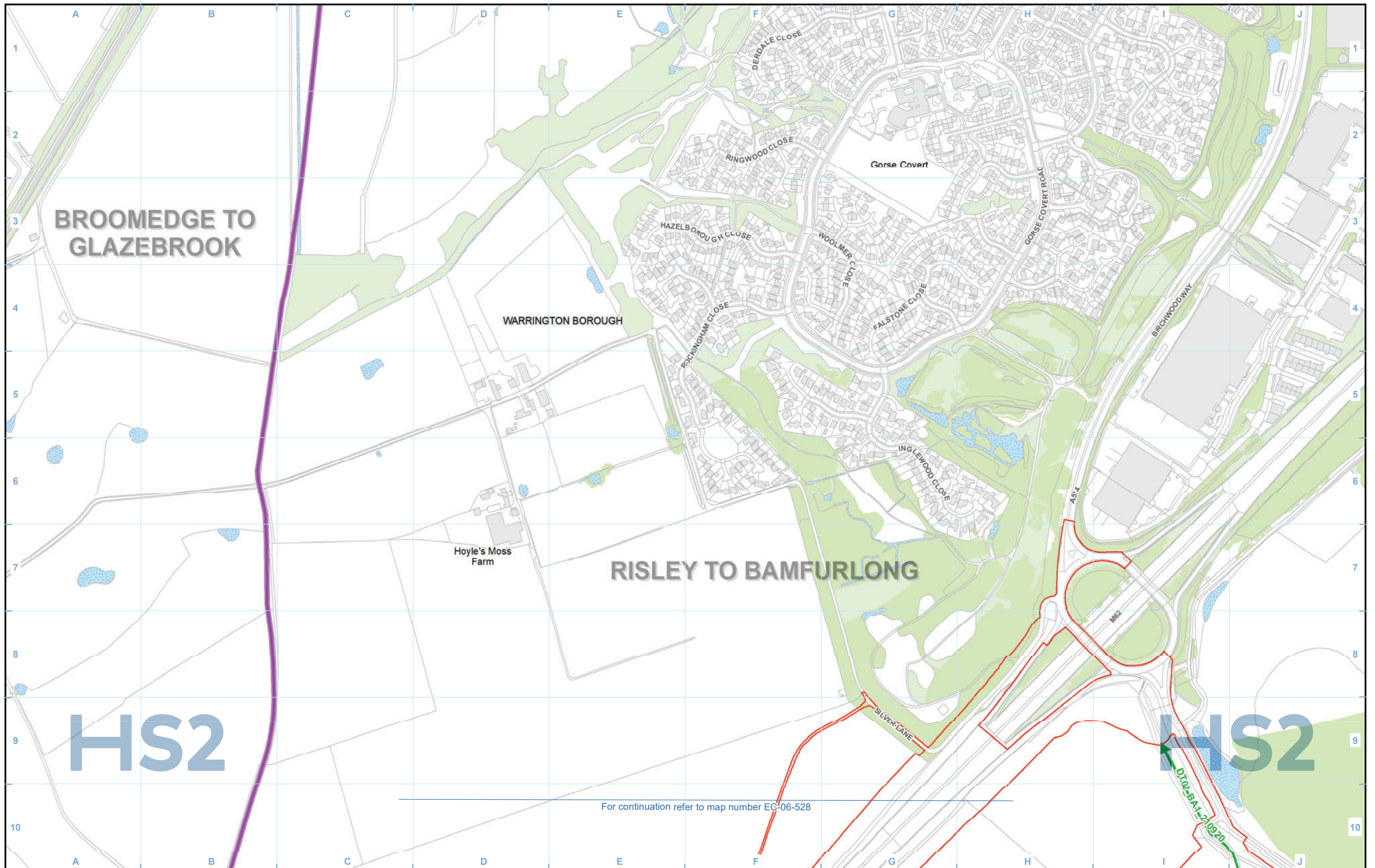
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Scale at A3: 1:5,000

Metres

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For continuation refer to map number EC-06-528

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

Map Number	EC-06-528-L1
Map Name	Bat - Activity
Community Area MA05: Risley to Bamfurlong	

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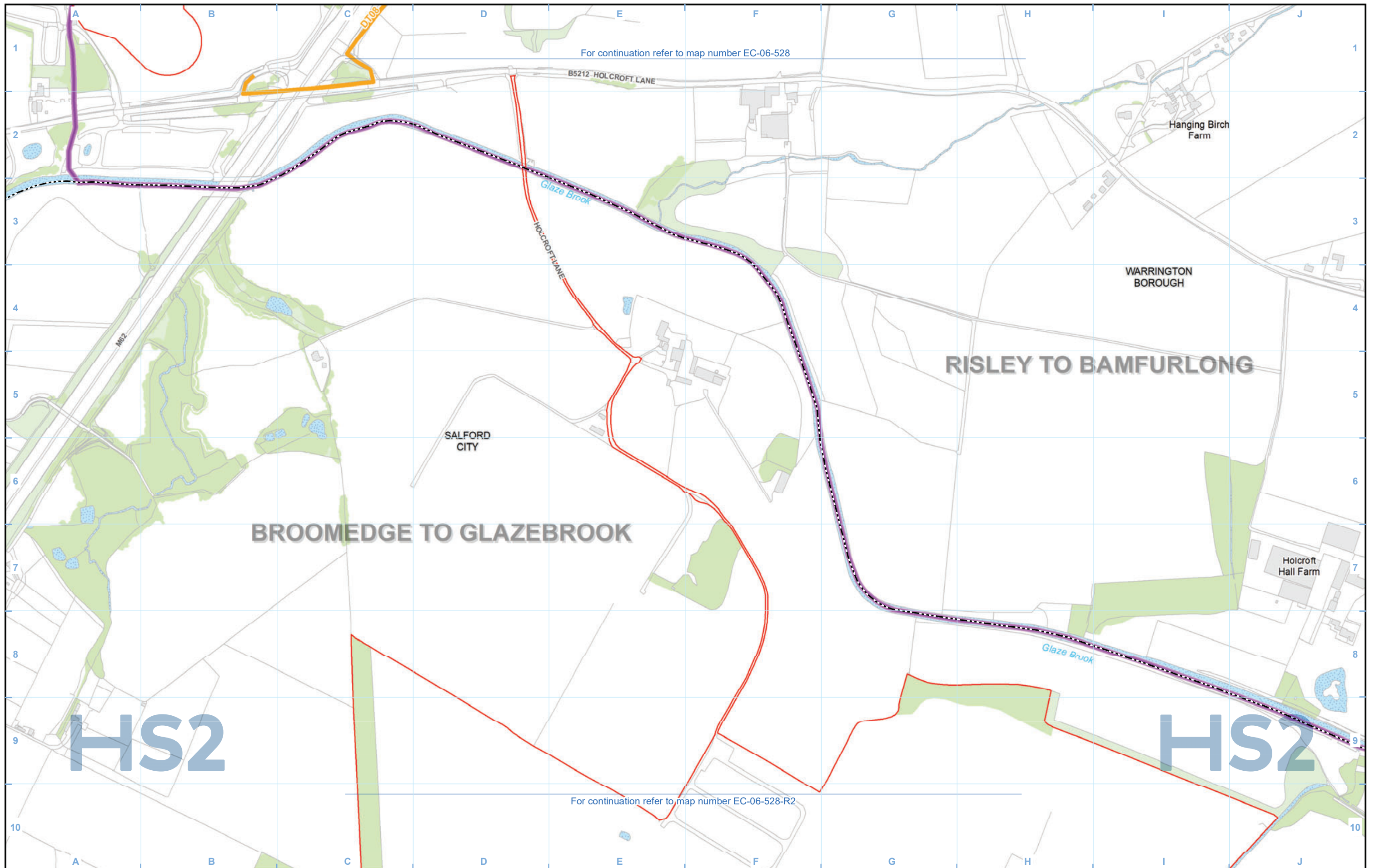
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Metres

Date: 12/08/21





For continuation refer to map number EC-06-528

B5212 HOLCROFT LANE

Glaze Brook

HOLCROFT LANE

Hanging Birch Farm

WARRINGTON BOROUGH

RISLEY TO BAMFURLONG

SALFORD CITY

BROOMEDGE TO GLAZEBROOK

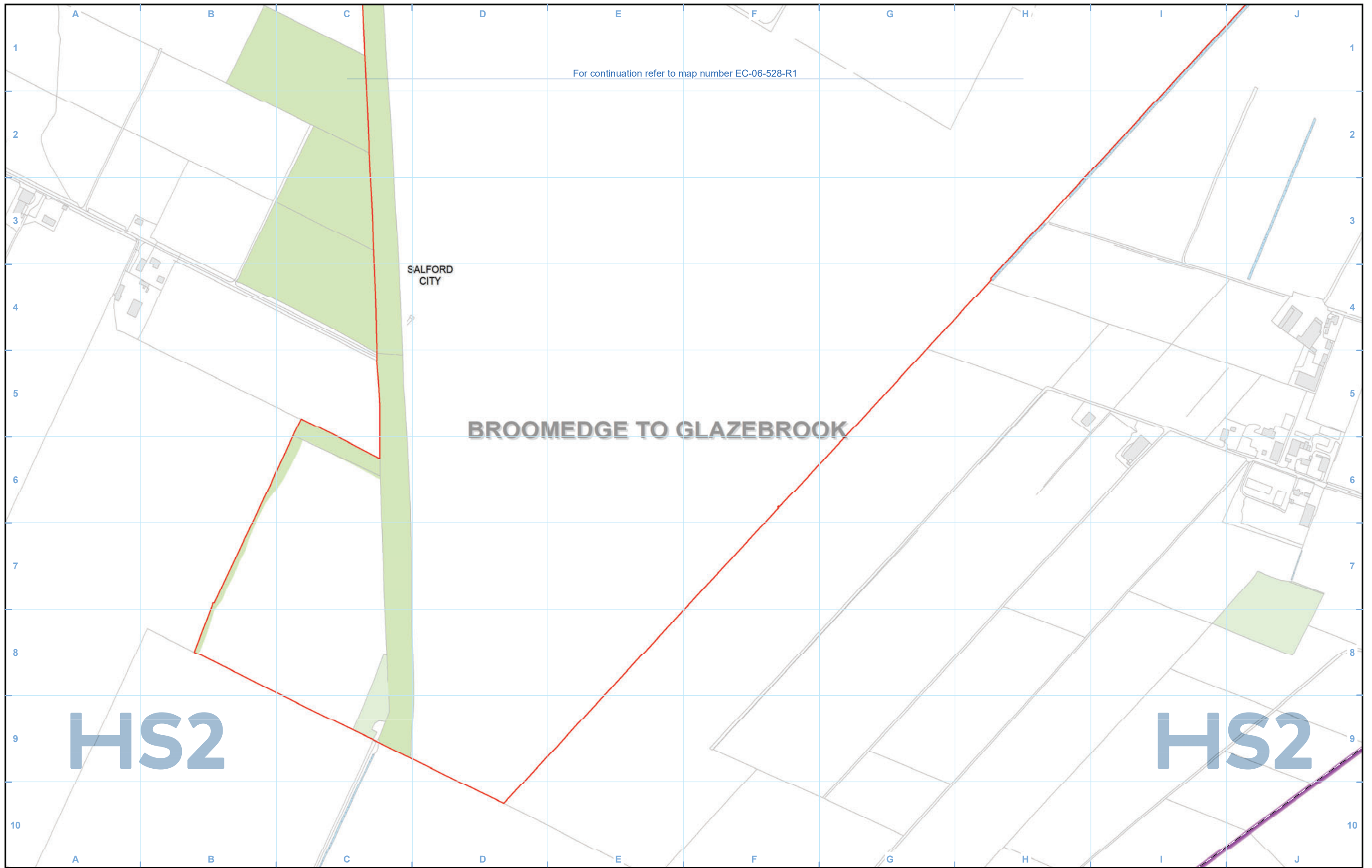
Holcroft Hall Farm

Glaze Brook

For continuation refer to map number EC-06-528-R2

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in 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-06-528-R1</p> <p>Map Name: Bat - Activity</p> <p>Community Area MA05: Risley to Bamfurlong</p>	<p><b>HS2</b></p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2020 OS 100049190</p> <p>Scale at A3: 1:5,000</p> <p>Doc Number: 2DE01-MWJ-EV-MAP-M000-002746-P01</p> <p>Date: 12/08/21</p>
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Legend			
	Route in tunnel		Bat activity static detector location
	Route on surface		Activity transect route
	Depot, station, headhouse or portal building		Assumed key commuting route
	Land potentially required during construction		Assumed key areas of foraging habitat
	Community area boundary		Watercourse
	County boundary		Water body
	District/Borough boundary		Woodland (verified by survey)

Map Number	EC-06-528-R2
Map Name	Bat - Activity
Community Area MA05: Risley to Bamfurlong	

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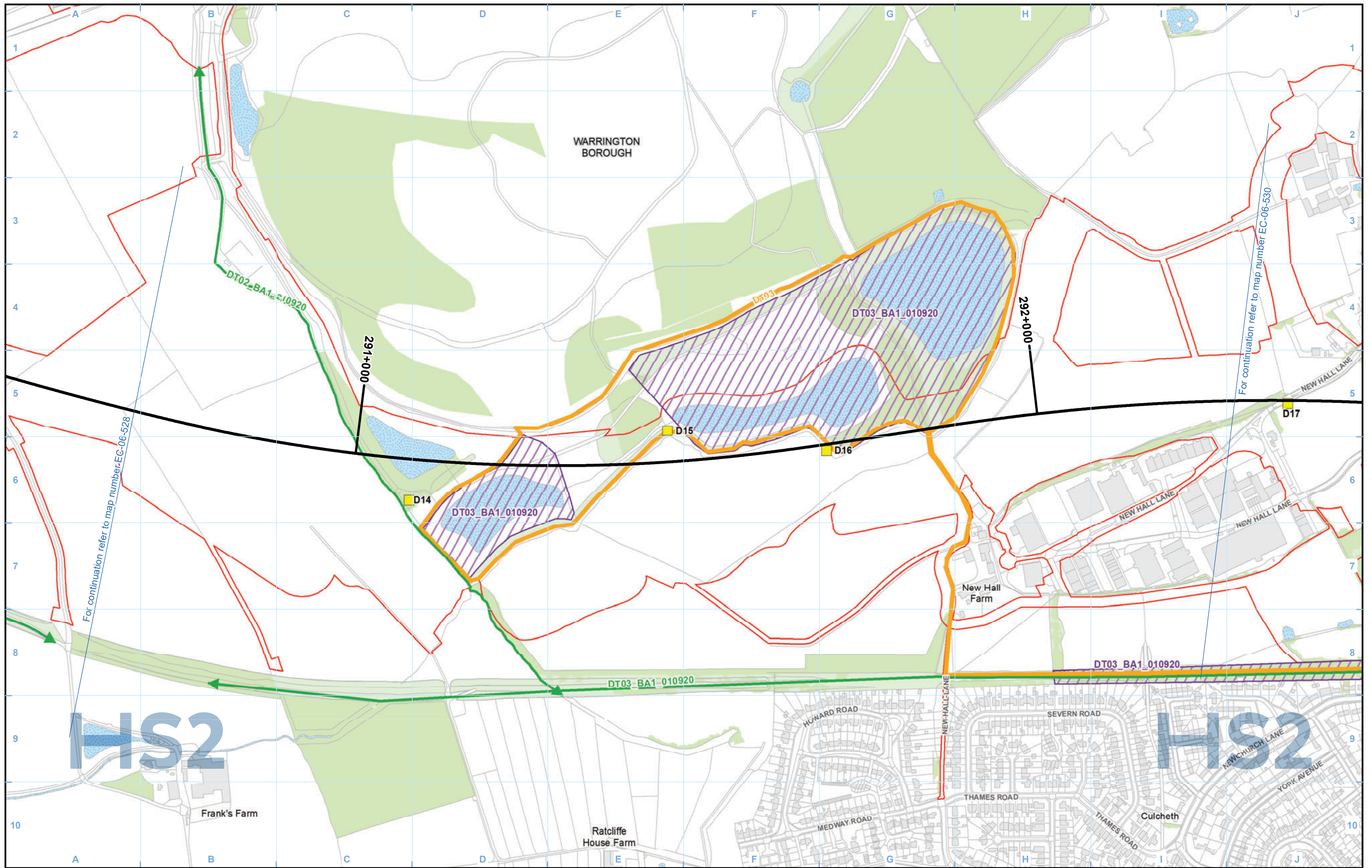
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Metres

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**Legend**


Map Number	EC-06-529
Map Name	Bat - Activity
	Community Area MA05: Risley to Bamfurlong

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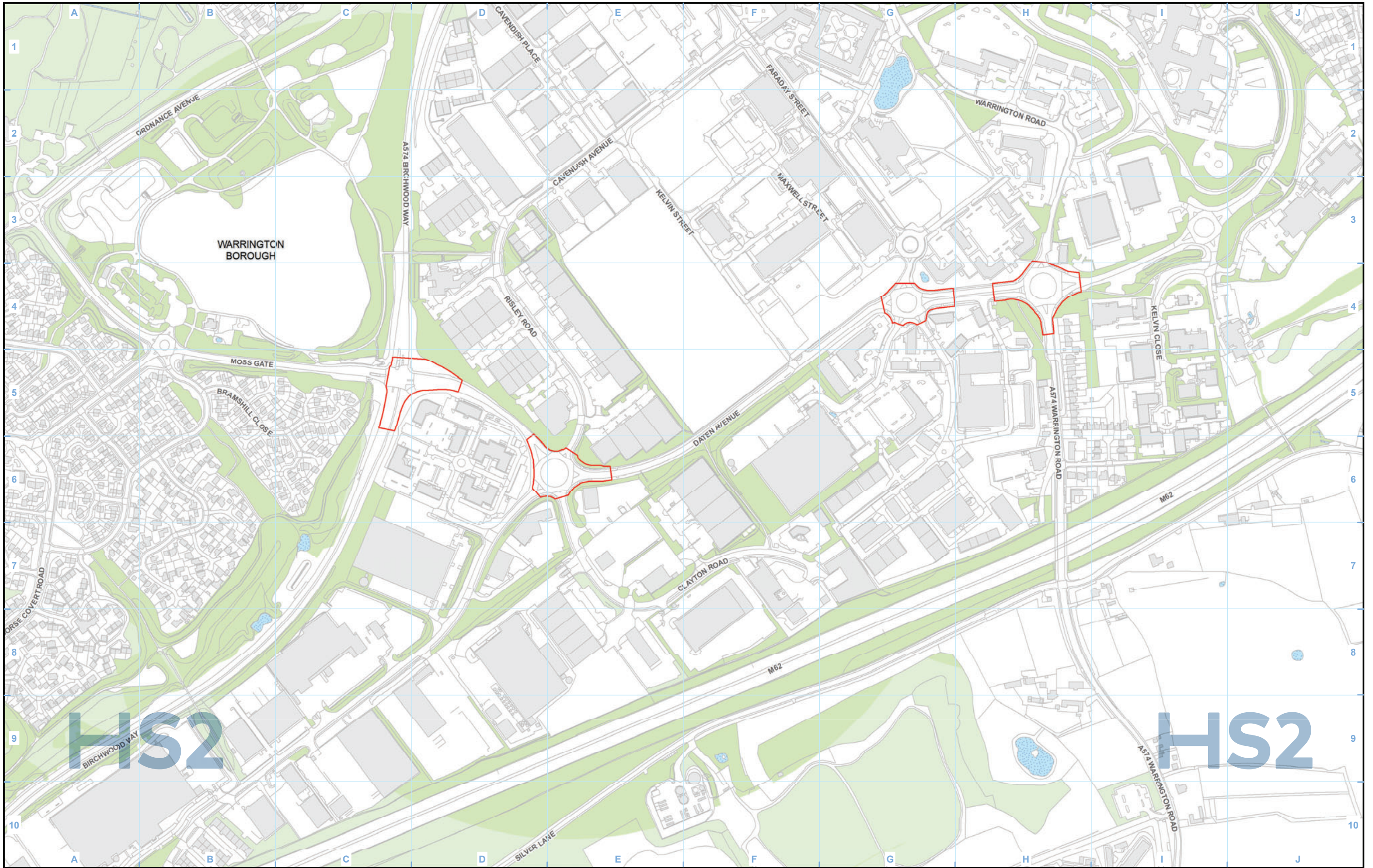
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Metres

Date: 12/08/21





- Legend**
- Route in 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-06-529-L1
Map Name	Bat - Activity
	Community Area MA05: Risley to Bamfurlong

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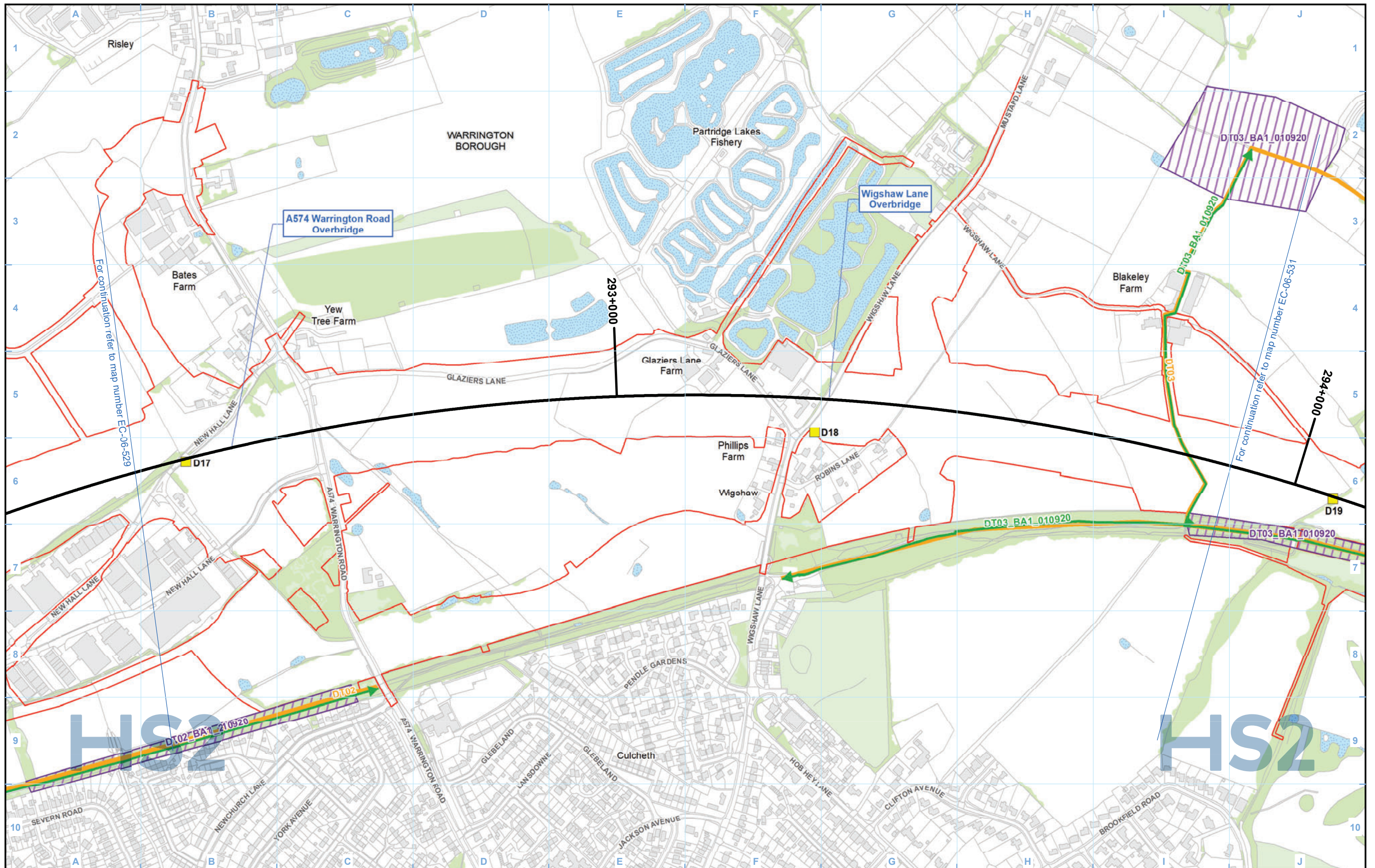
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003193-P01

Date: 12/08/21





Legend	
	Route in 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-06-530
Map Name	Bat - Activity
	Community Area MA05: Risley to Bamfurlong

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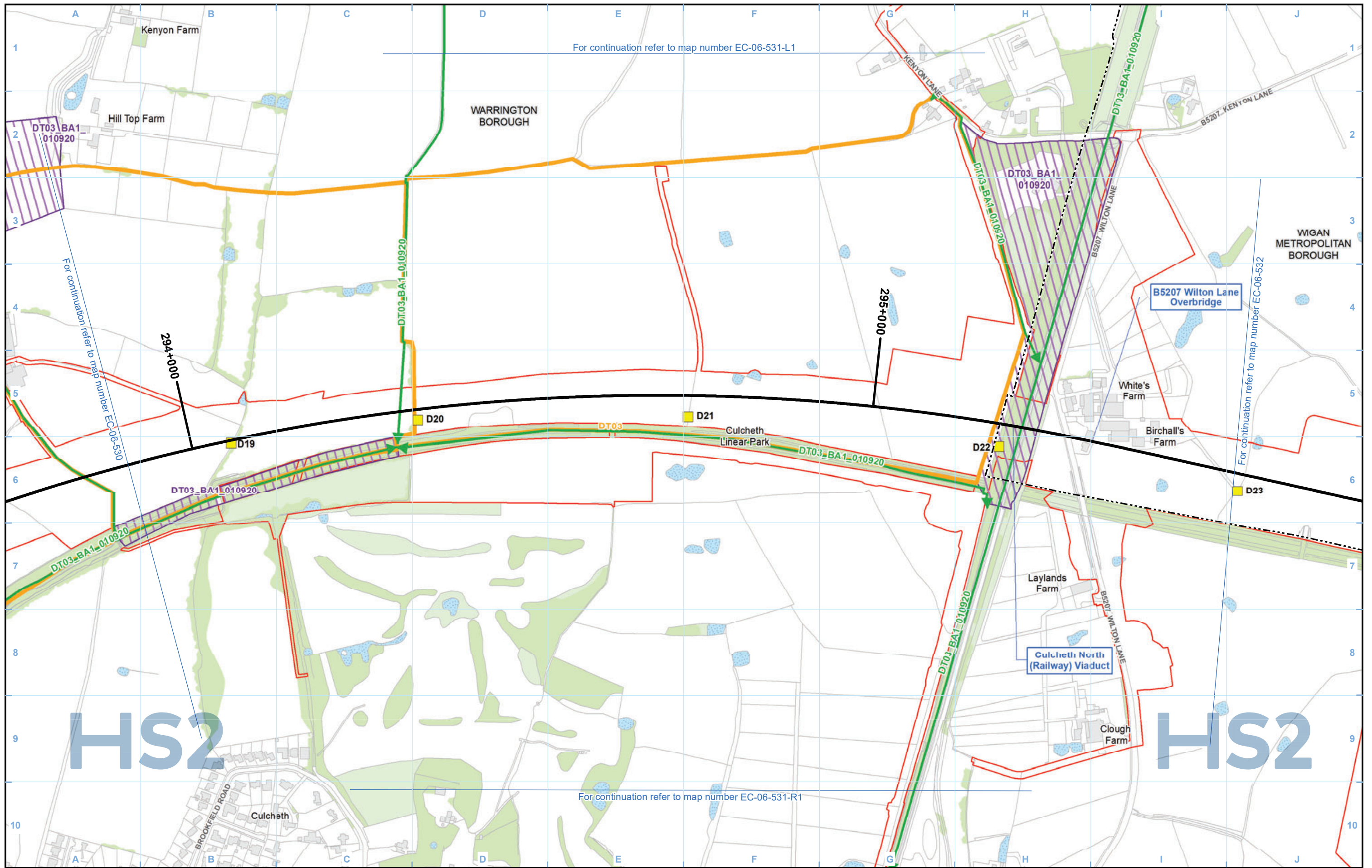
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For continuation refer to map number EC-06-531-L1

For continuation refer to map number EC-06-530

For continuation refer to map number EC-06-532

For continuation refer to map number EC-06-531-R1

- Legend**
- Route in 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-06-531
Map Name	Bat - Activity
	Community Area MA05: Risley to Bamfurlong

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**Legend**

-  Route in 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-06-531-R1
Map Name	Bat - Activity
	Community Area MA05: Risley to Bamfurlong




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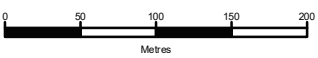
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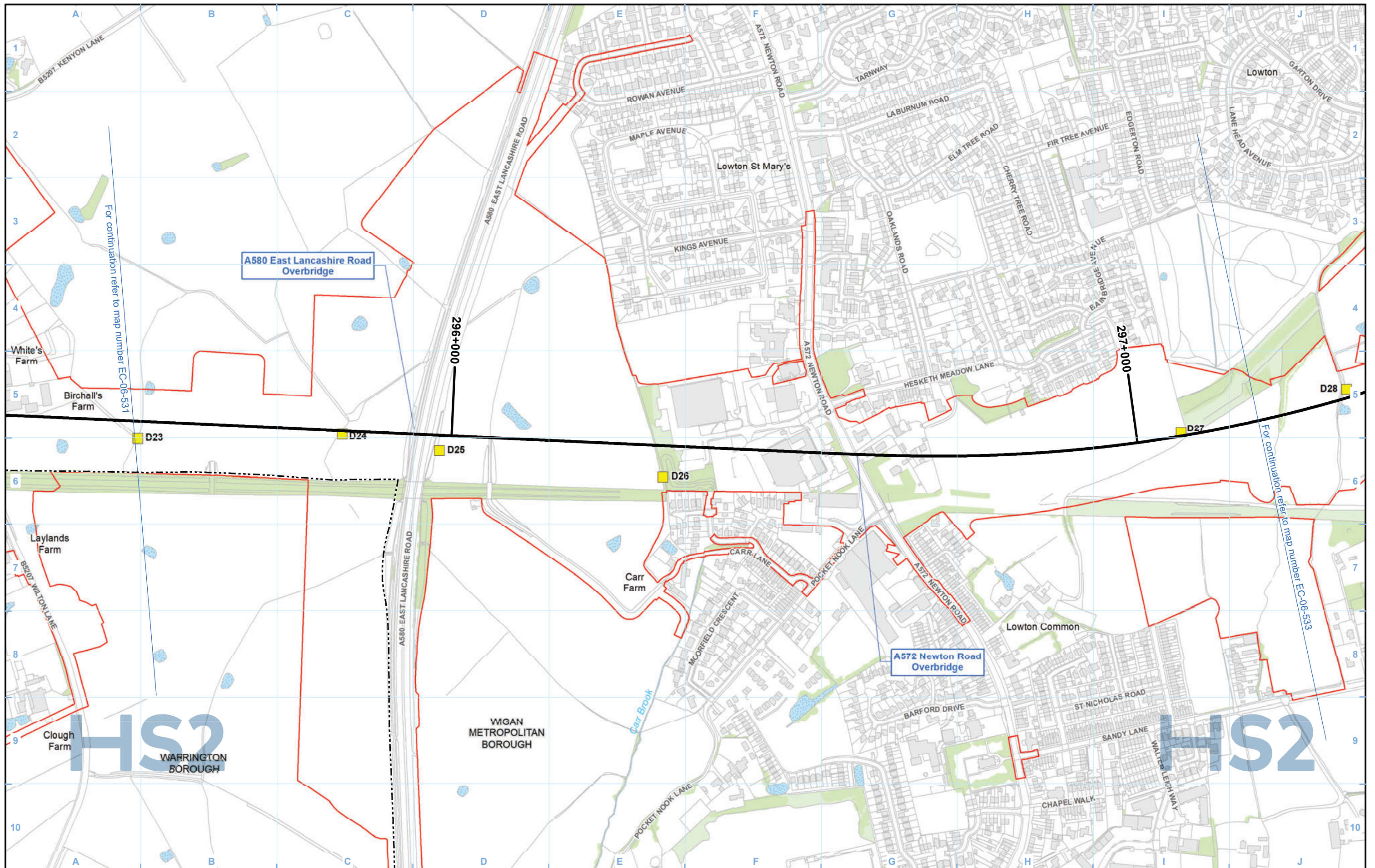
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Metres

Date: 12/08/21





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

Map Number	EC-06-532
Map Name	Bat - Activity
Community Area MA05: Risley to Bamfurlong	

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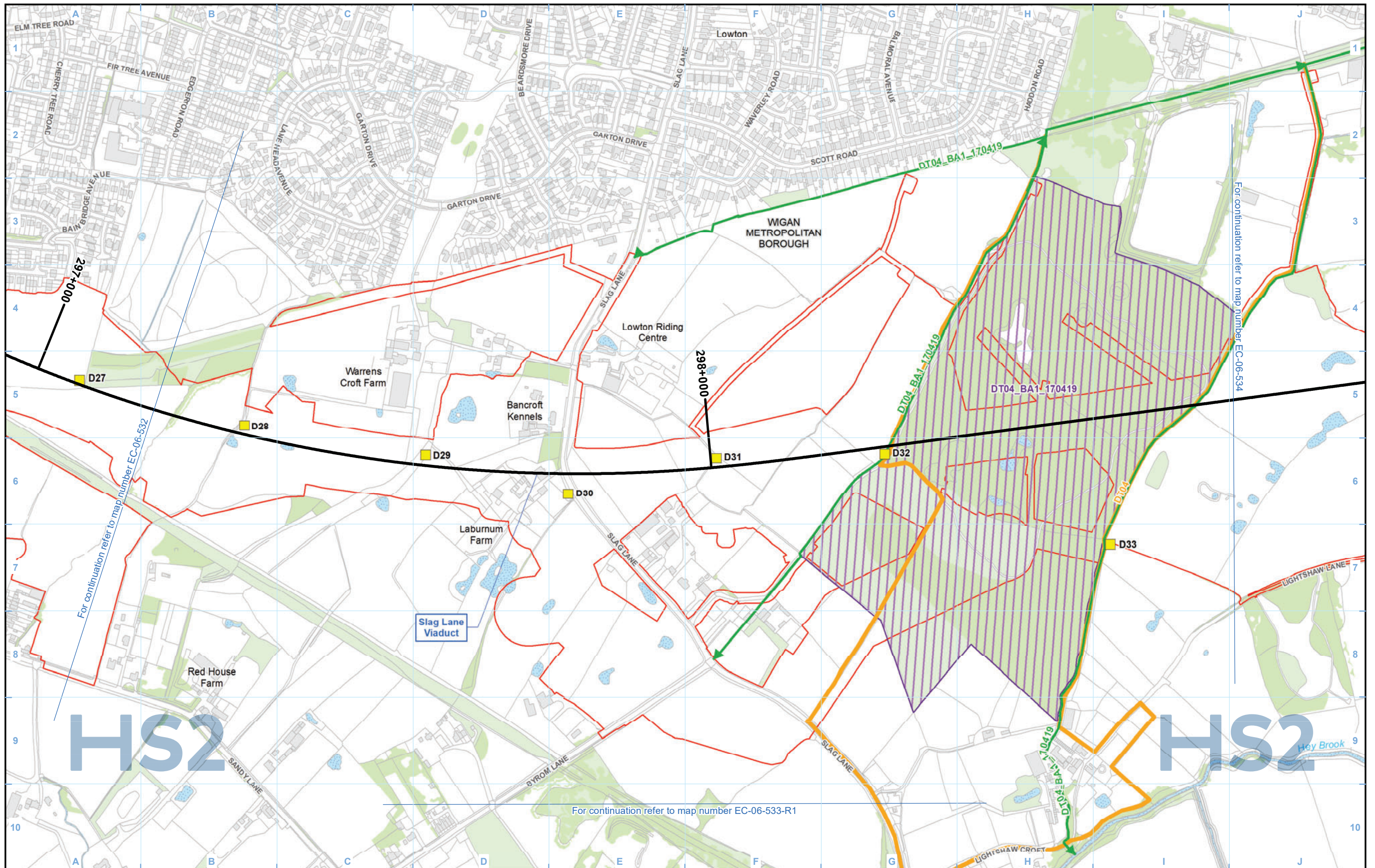
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Scale at A3: 1:5,000

Metres

Date: 12/08/21





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- Legend**
- Route in 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-06-533
Map Name	Bat - Activity
Community Area MA05: Risley to Bamfurlong	

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For continuation refer to map number EC-06-533

**Legend**


Map Number	EC-06-533-R1
Map Name	Bat - Activity
Community Area MA05: Risley to Bamfurlong	

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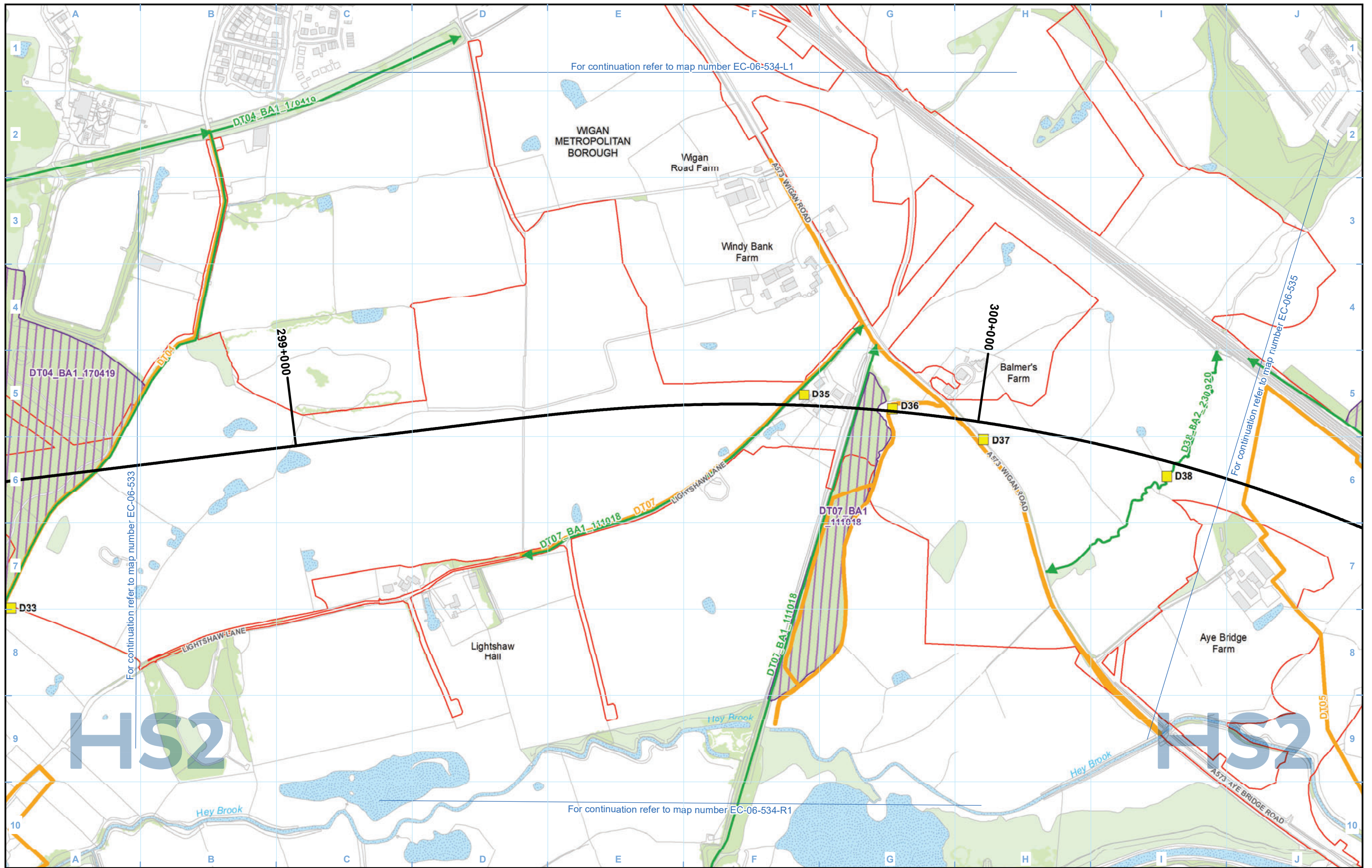
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Legend			
	Route in tunnel		Bat activity static detector location
	Route on surface		Activity transect route
	Depot, station, headhouse or portal building		Assumed key commuting route
	Land potentially required during construction		Assumed key areas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

Map Number	EC-06-534
Map Name	Bat - Activity
Community Area MA05: Risley to Bamfurlong	

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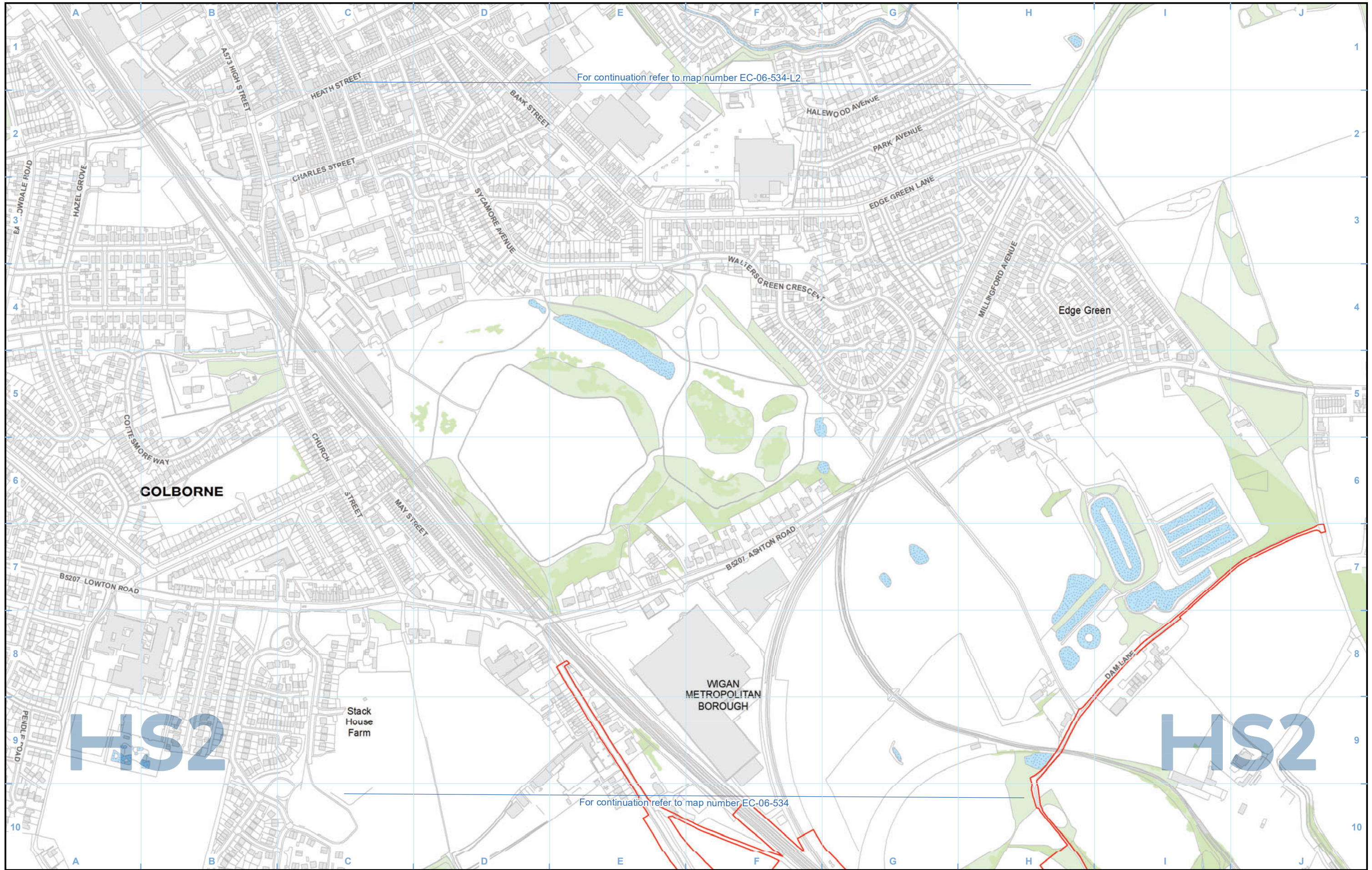
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Metres

Date: 12/08/21





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

Map Number	EC-06-534-L1
Map Name	Bat - Activity
	Community Area MA05: Risley to Bamfurlong

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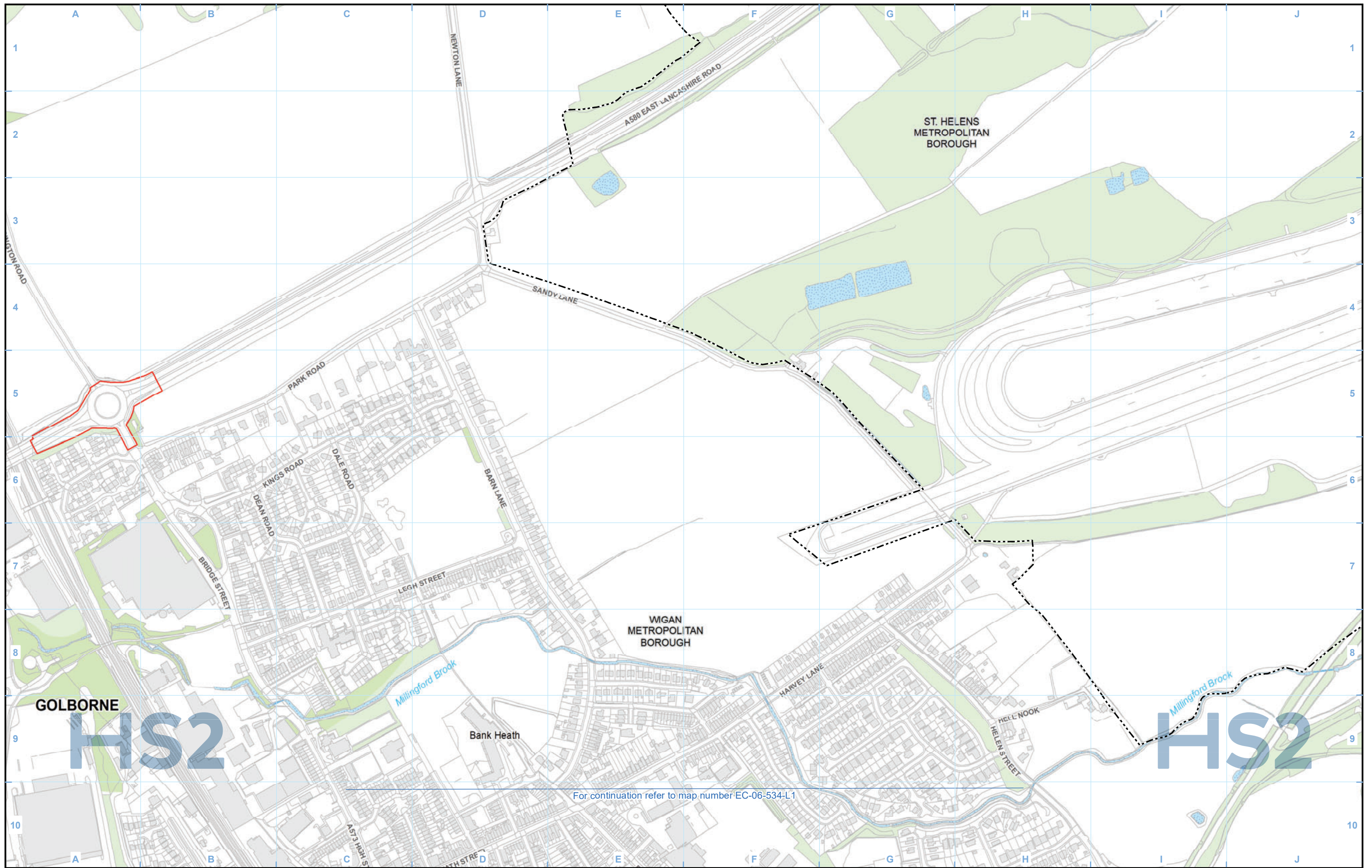
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Date: 12/08/21





For continuation refer to map number EC-06-534-L1

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

Map Number	EC-06-534-L2
Map Name	Bat - Activity
Community Area MA05: Risley to Bamfurlong	

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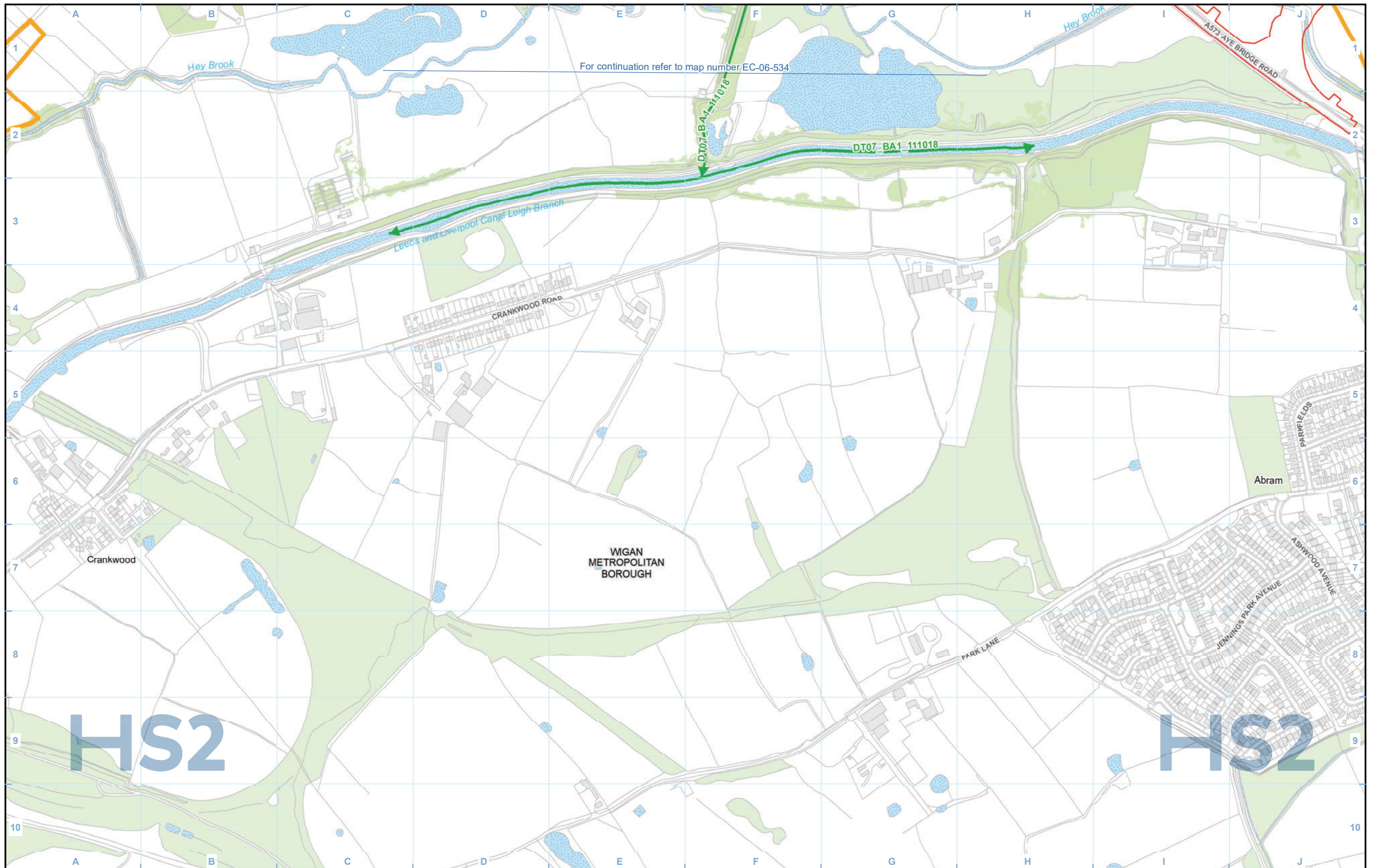
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Metres

Date: 12/08/21





For continuation refer to map number EC-06-534

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

Map Number	EC-06-534-R1
Map Name	Bat - Activity
	Community Area MA05: Risley to Bamfurlong

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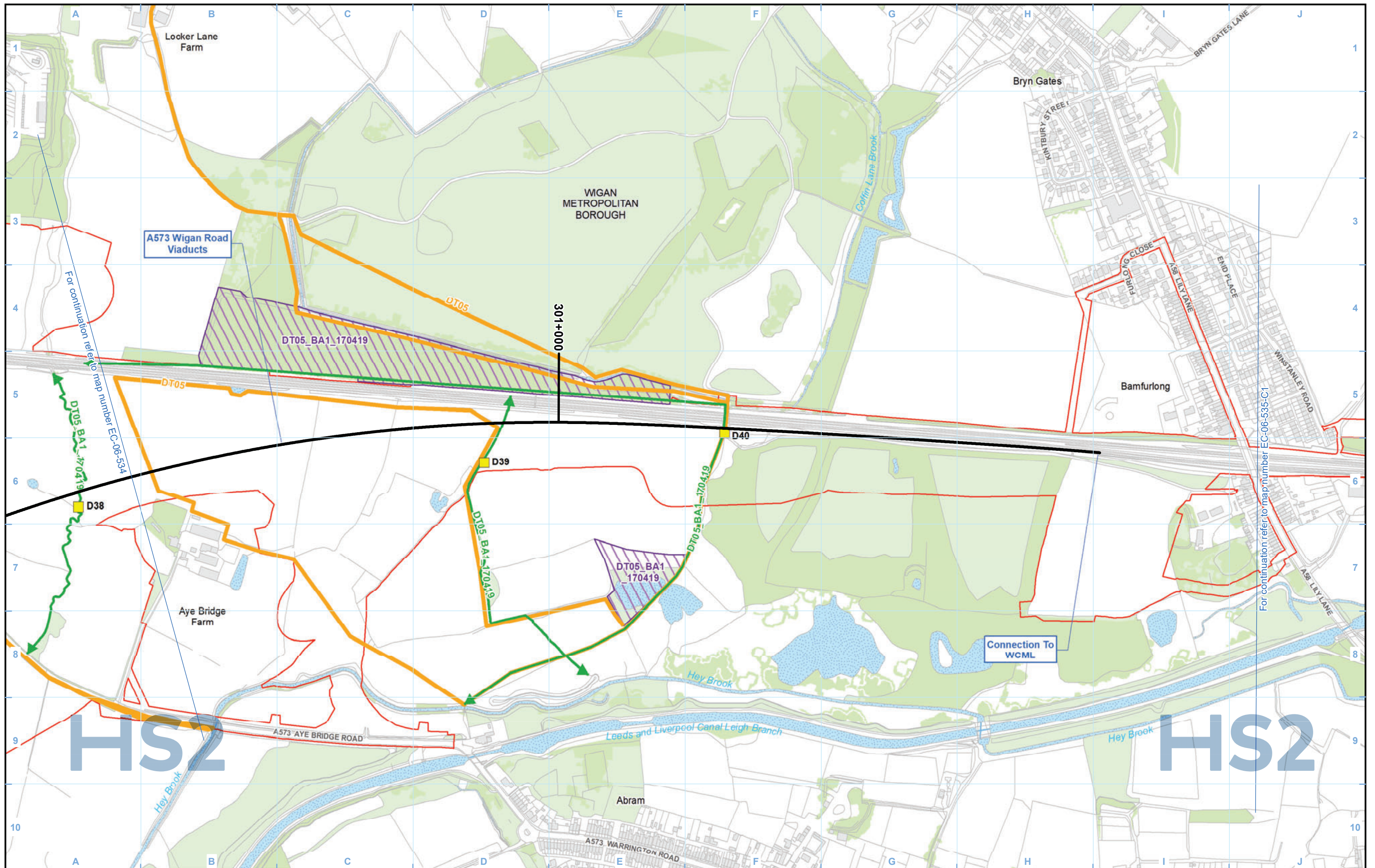
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Date: 12/08/21

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

Map Number	EC-06-535
Map Name	Bat - Activity
Community Area MA05: Risley to Bamfurlong	

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For continuation refer to map number EC-06-535

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

Map Number	EC-06-535-C1
Map Name	Bat - Activity
	Community Area MA05: Risley to Bamfurlong

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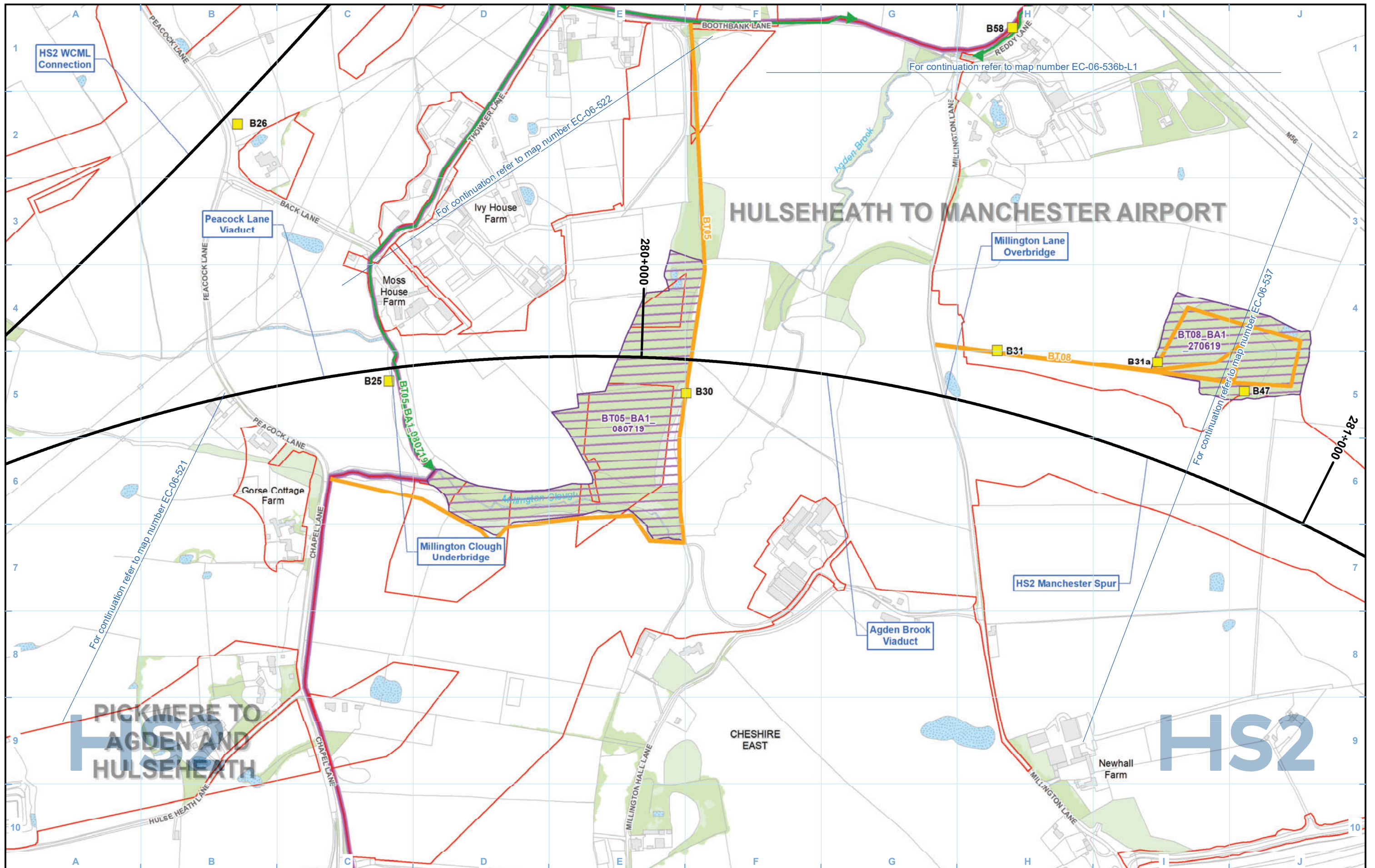


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Legend			
	Route in tunnel		Bat activity static detector location
	Route on surface		Activity transect route
	Depot, station, headhouse or portal building		Assumed key commuting route
	Land potentially required during construction		Assumed key areas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

Map Number	EC-06-536b
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	

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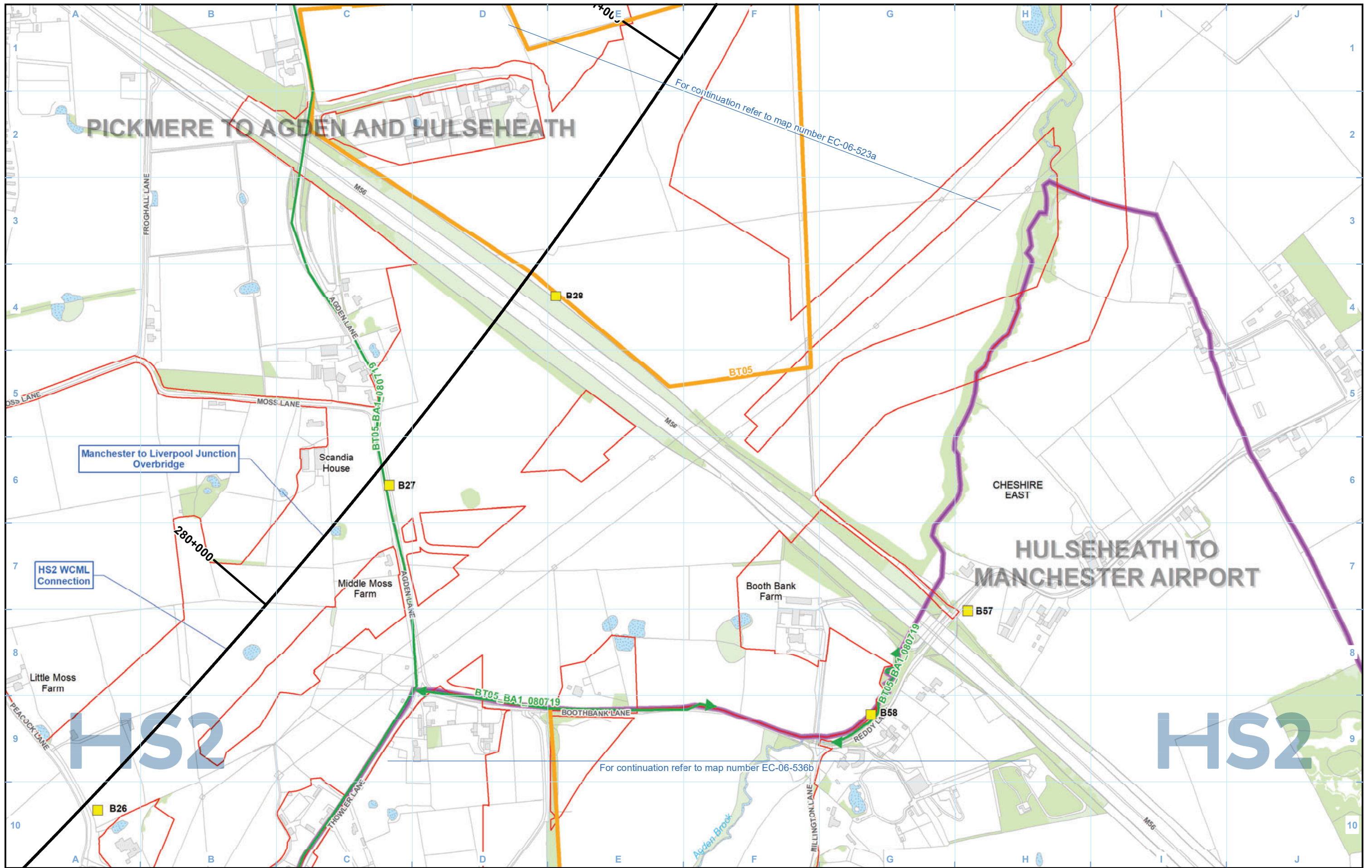
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Scale at A3: 1:5,000

Metres

Date: 12/08/21





**Legend**

Route in 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-06-536b-L1

Map Name: Bat - Activity

Community Area MA06:  
Hulseheath to Manchester Airport

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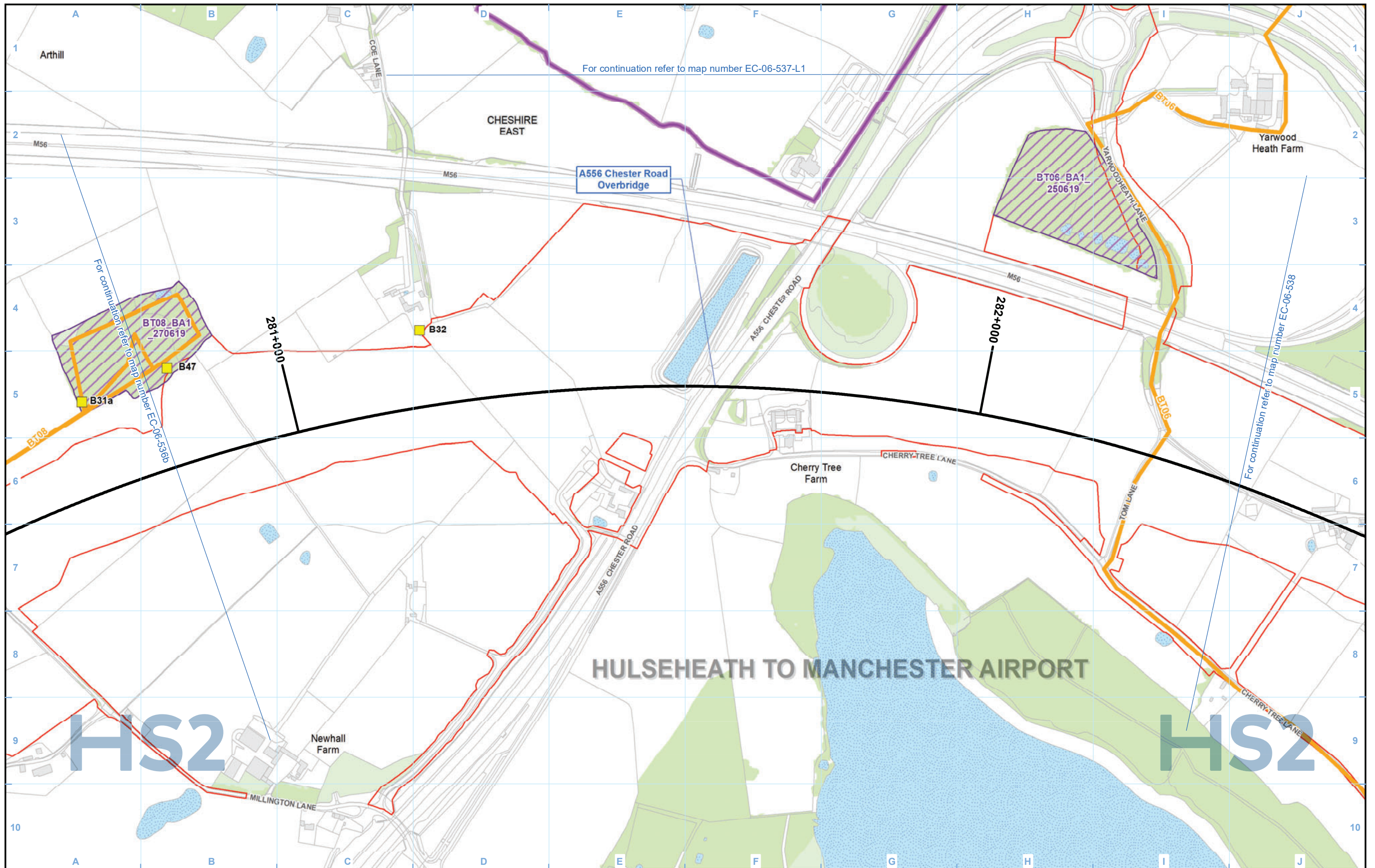
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Date: 12/08/21





For continuation refer to map number EC-06-537-L1

For continuation refer to map number EC-06-536B

For continuation refer to map number EC-06-538

281+000

282+000

# HULSEHEATH TO MANCHESTER AIRPORT

# HS2

# HS2

- Legend**
- Route in 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-06-537
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	

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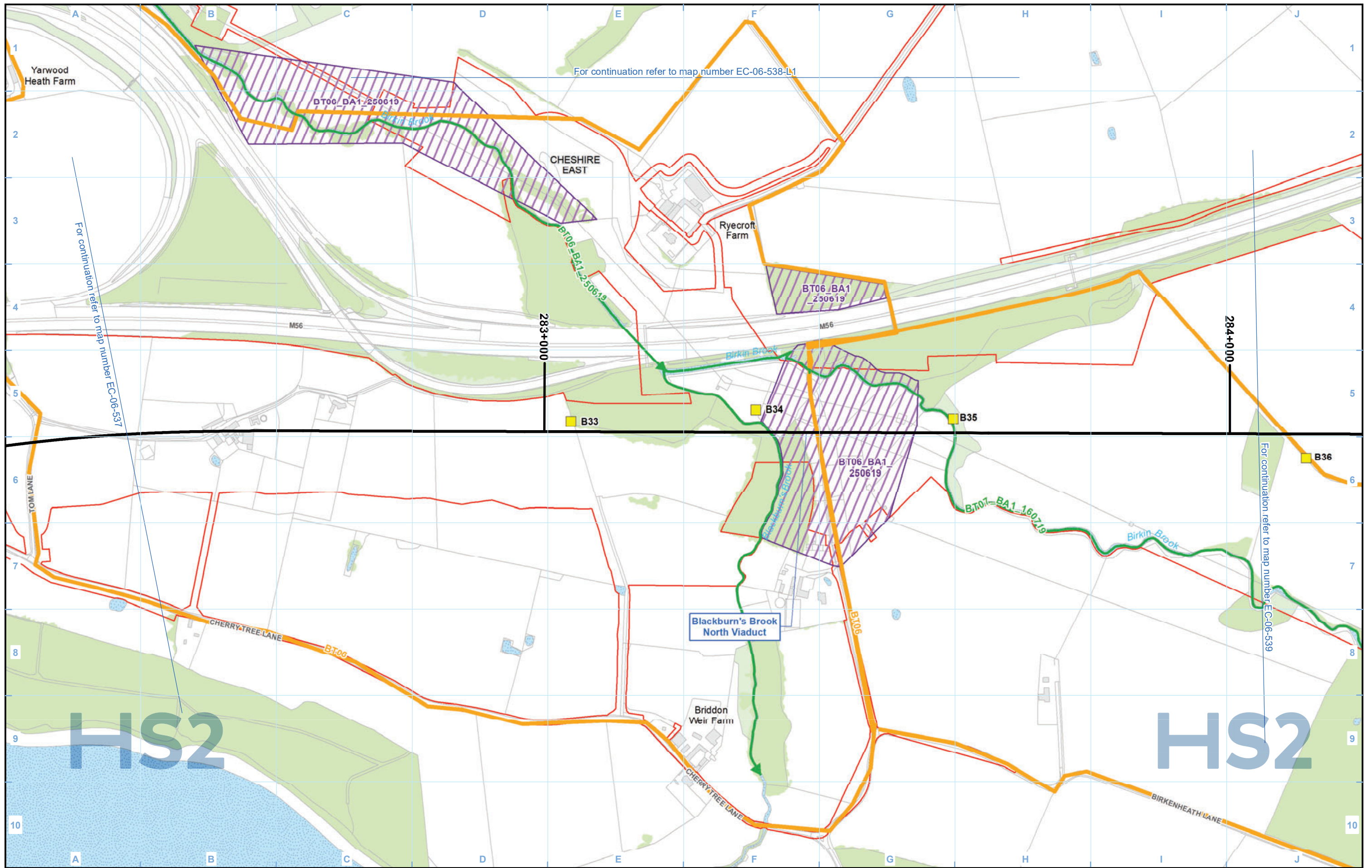
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Date: 12/08/21









For continuation refer to map number EC-06-538-L1

For continuation refer to map number EC-06-537

For continuation refer to map number EC-06-539

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

Map Number	EC-06-538
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	

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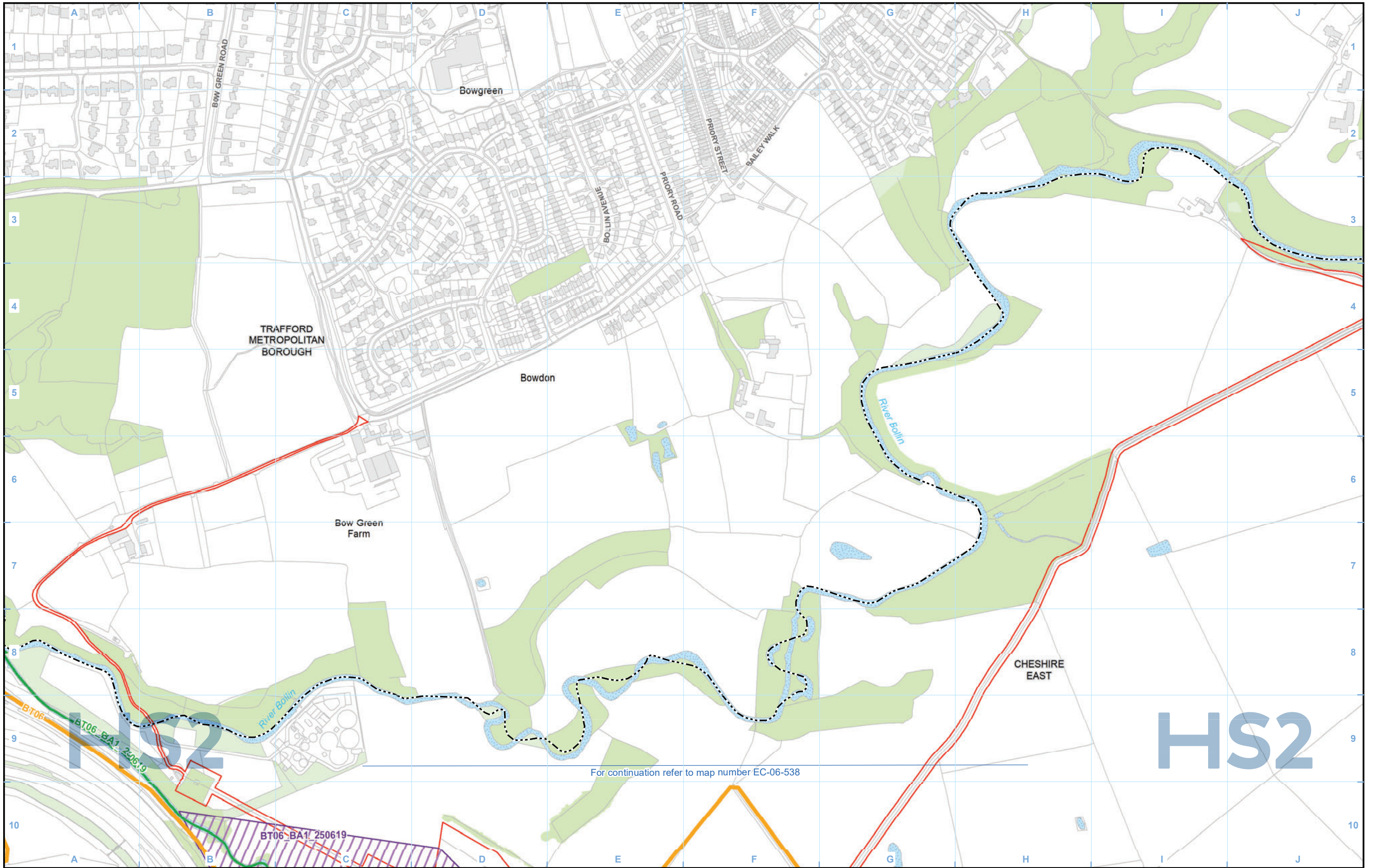
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Date: 12/08/21





For continuation refer to map number EC-06-538

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

Map Number	EC-06-538-L1
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	

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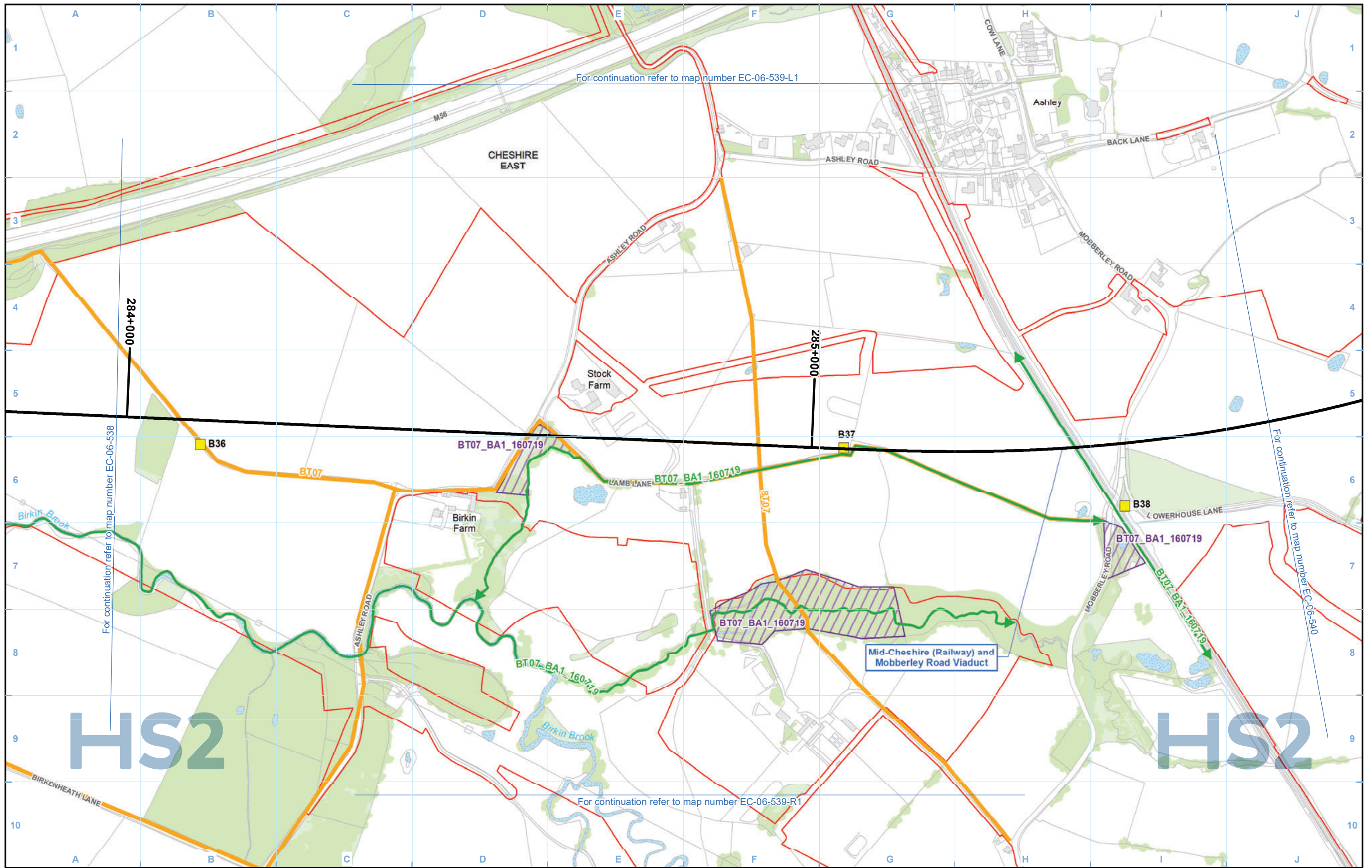
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Legend			
	Route in tunnel		Bat activity static detector location
	Route on surface		Activity transect route
	Depot, station, headhouse or portal building		Assumed key commuting route
	Land potentially required during construction		Assumed key areas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

Map Number	EC-06-539
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	

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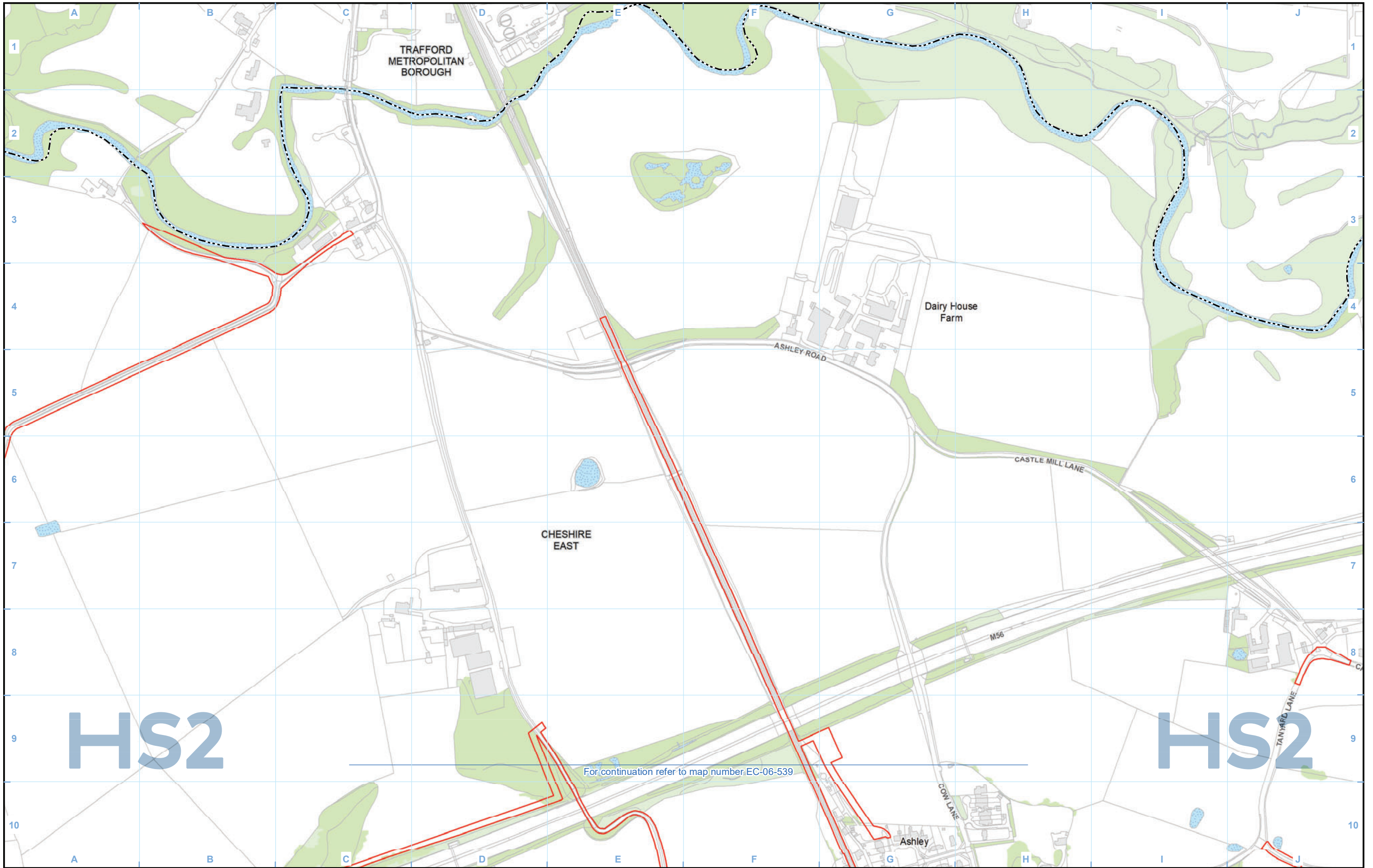
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Scale at A3: 1:5,000

Metres

Date: 12/08/21





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

Map Number	EC-06-539-L1
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	

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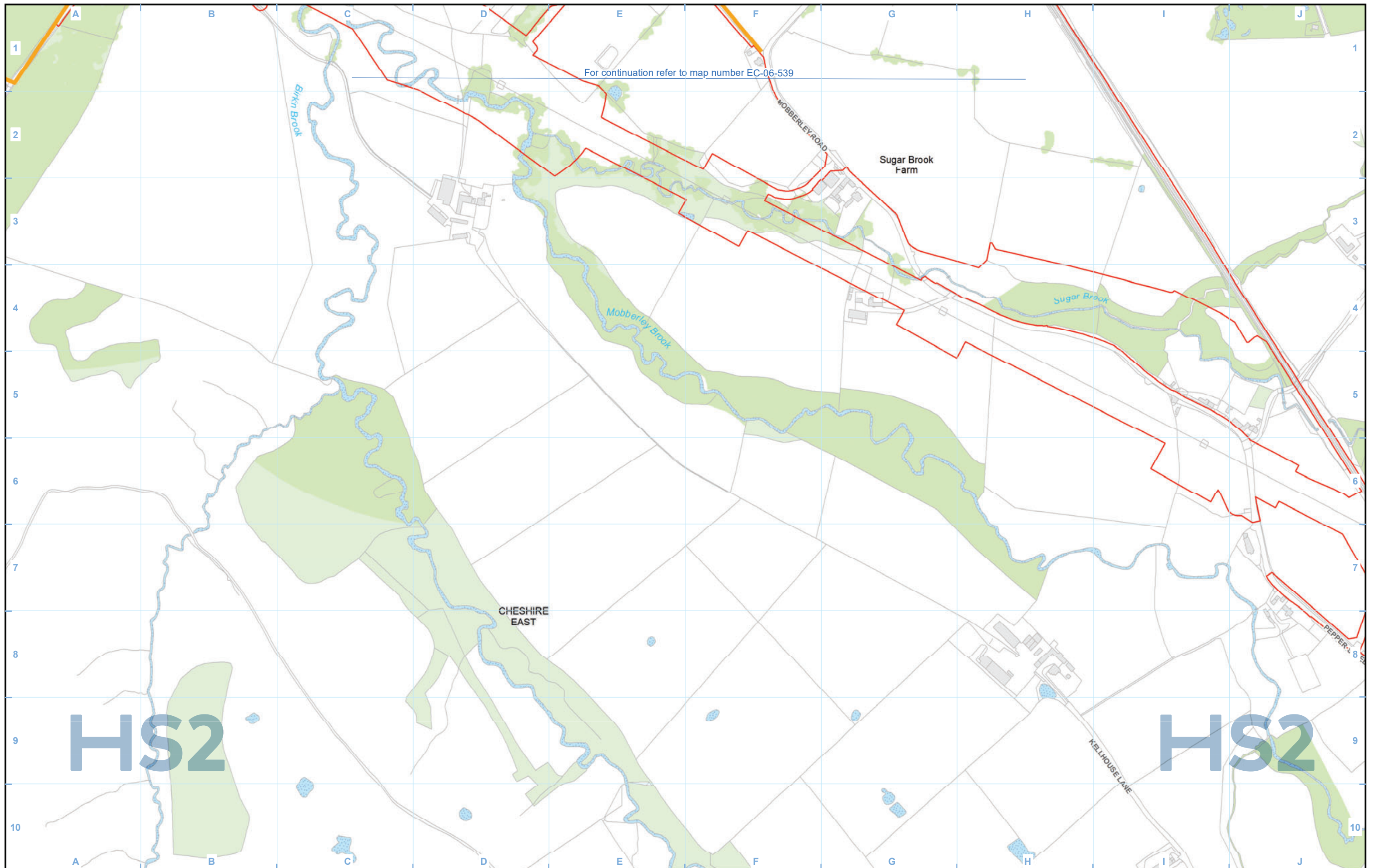
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003198-P01

Date: 12/08/21





**Legend**

- Route in 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-06-539-R1
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	

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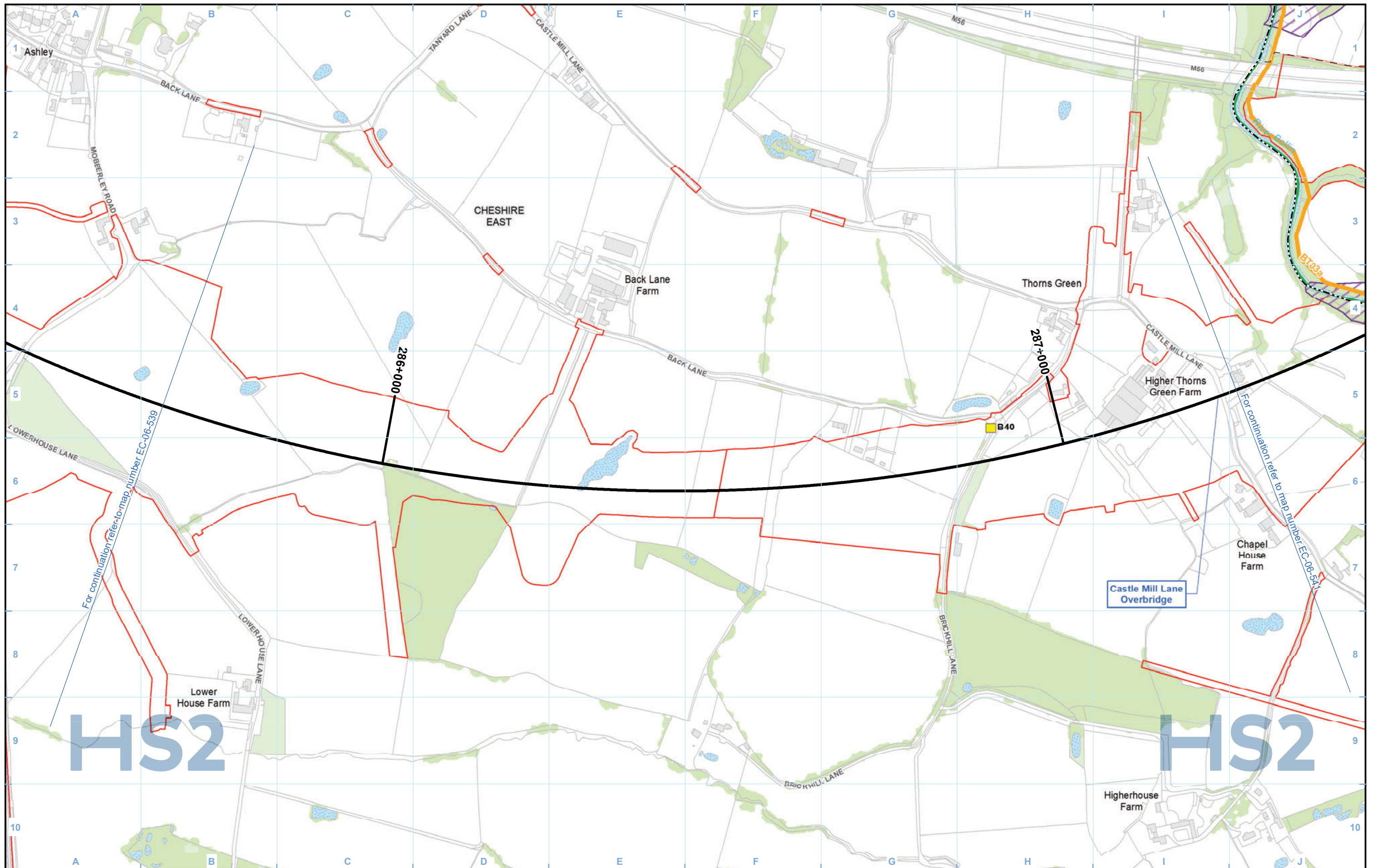
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Scale at A3: 1:5,000

Metres

**Date:** 12/08/21





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

Map Number	EC-06-540
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	

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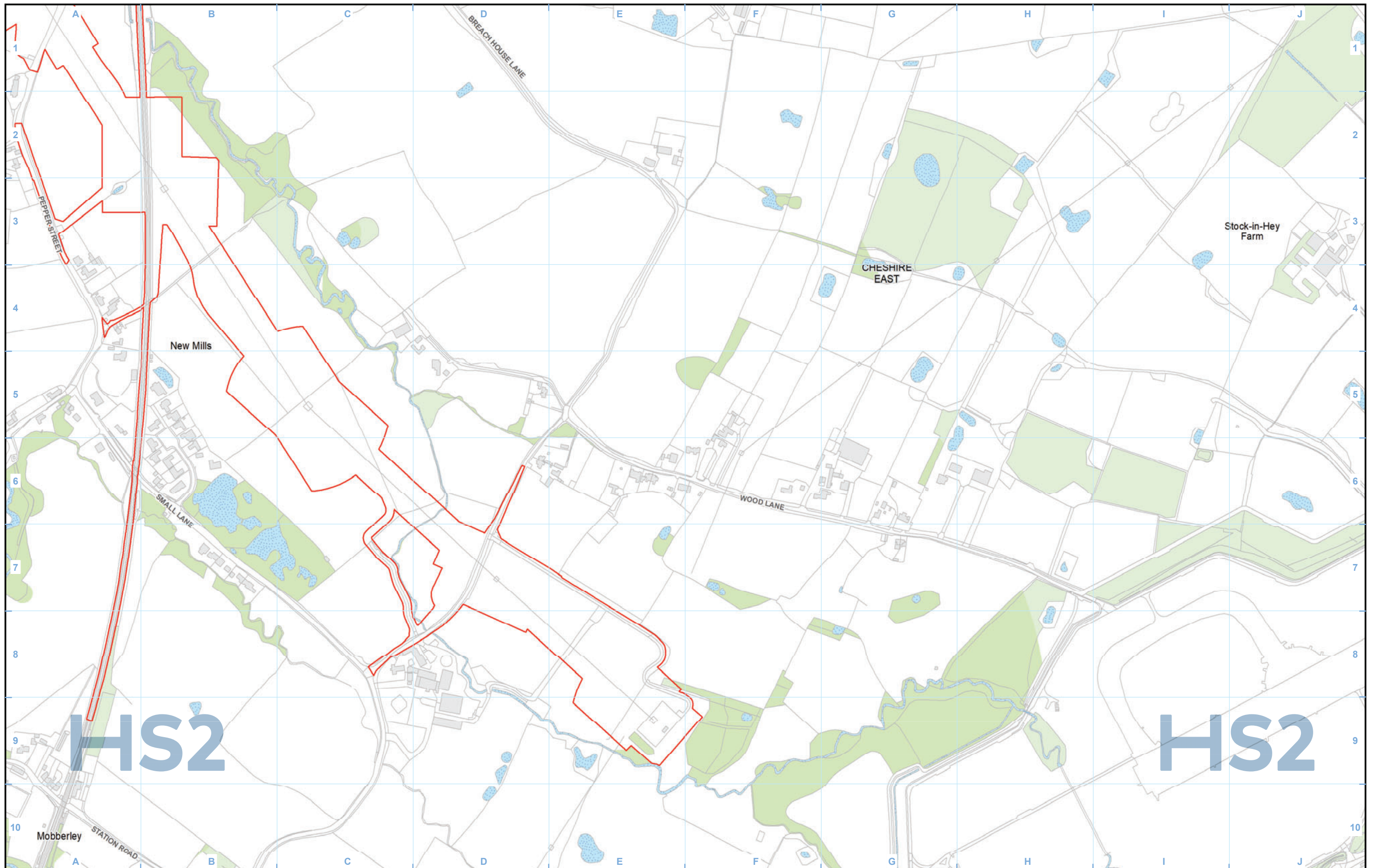
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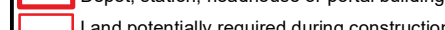
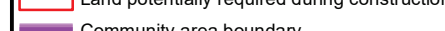
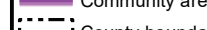
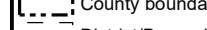
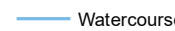

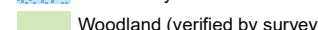
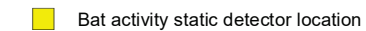

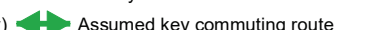
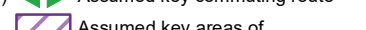
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Date: 12/08/21






**Legend**

-  Route in 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-06-540-R1
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	




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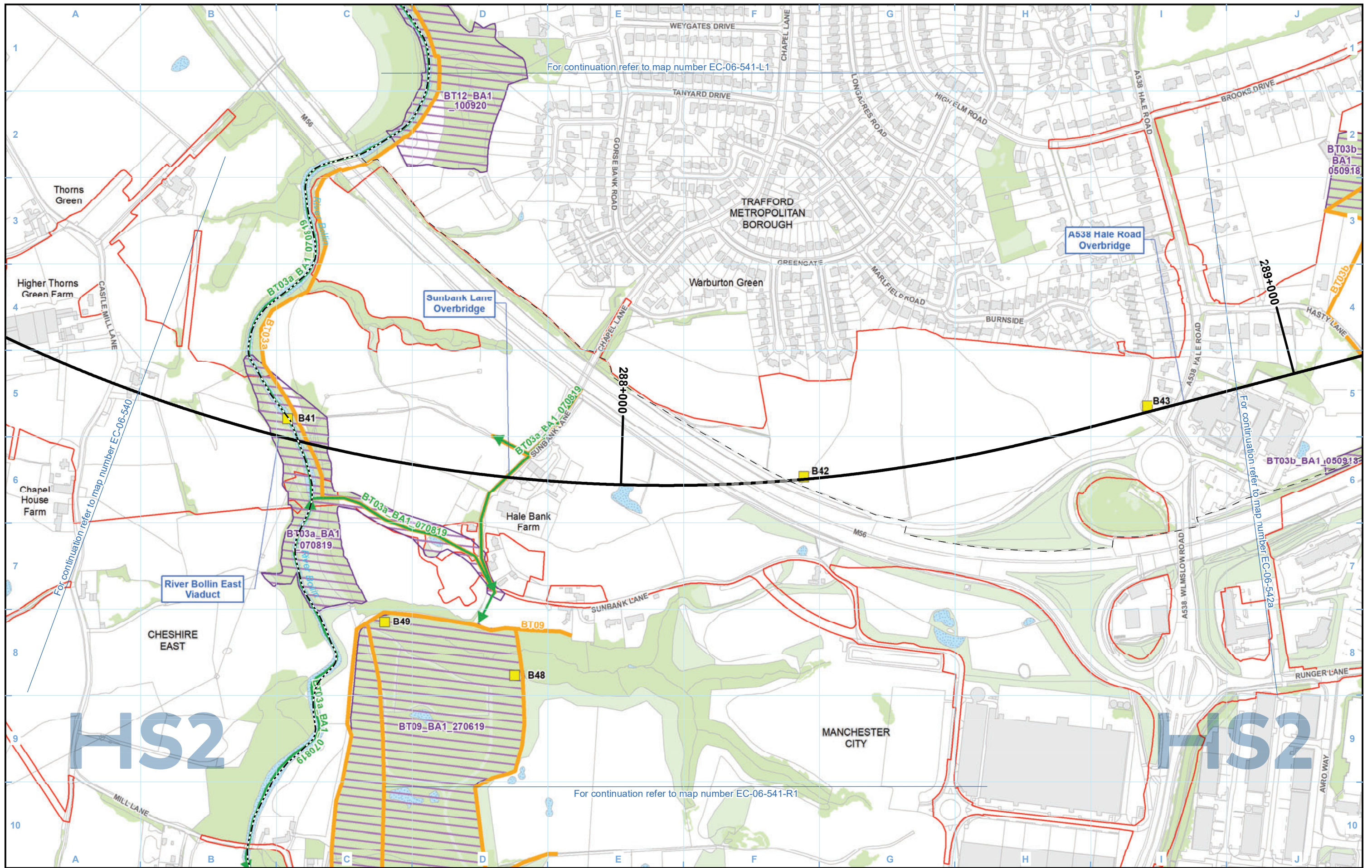


Metres

**Date:** 12/08/21

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**Legend**


For continuation refer to map number EC-06-541-L1

For continuation refer to map number EC-06-541-R1

Map Number EC-06-541

Map Name Bat - Activity

Community Area MA06:  
Hulseheath to Manchester Airport

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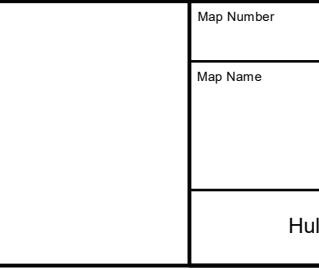
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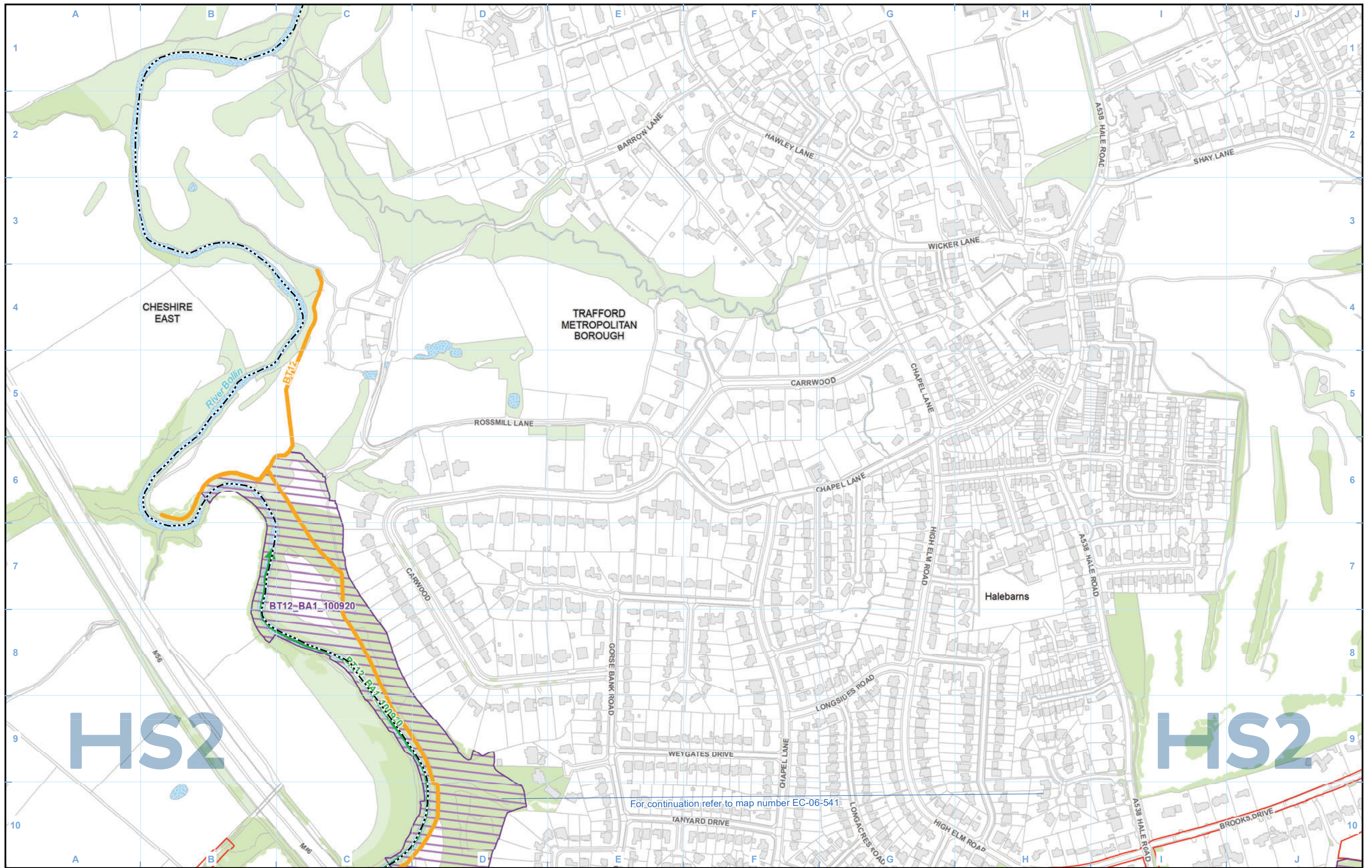
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Metres

Date: 12/08/21



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For continuation refer to map number EC-06-541

- Legend**
- Route in 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-06-541-L1
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	

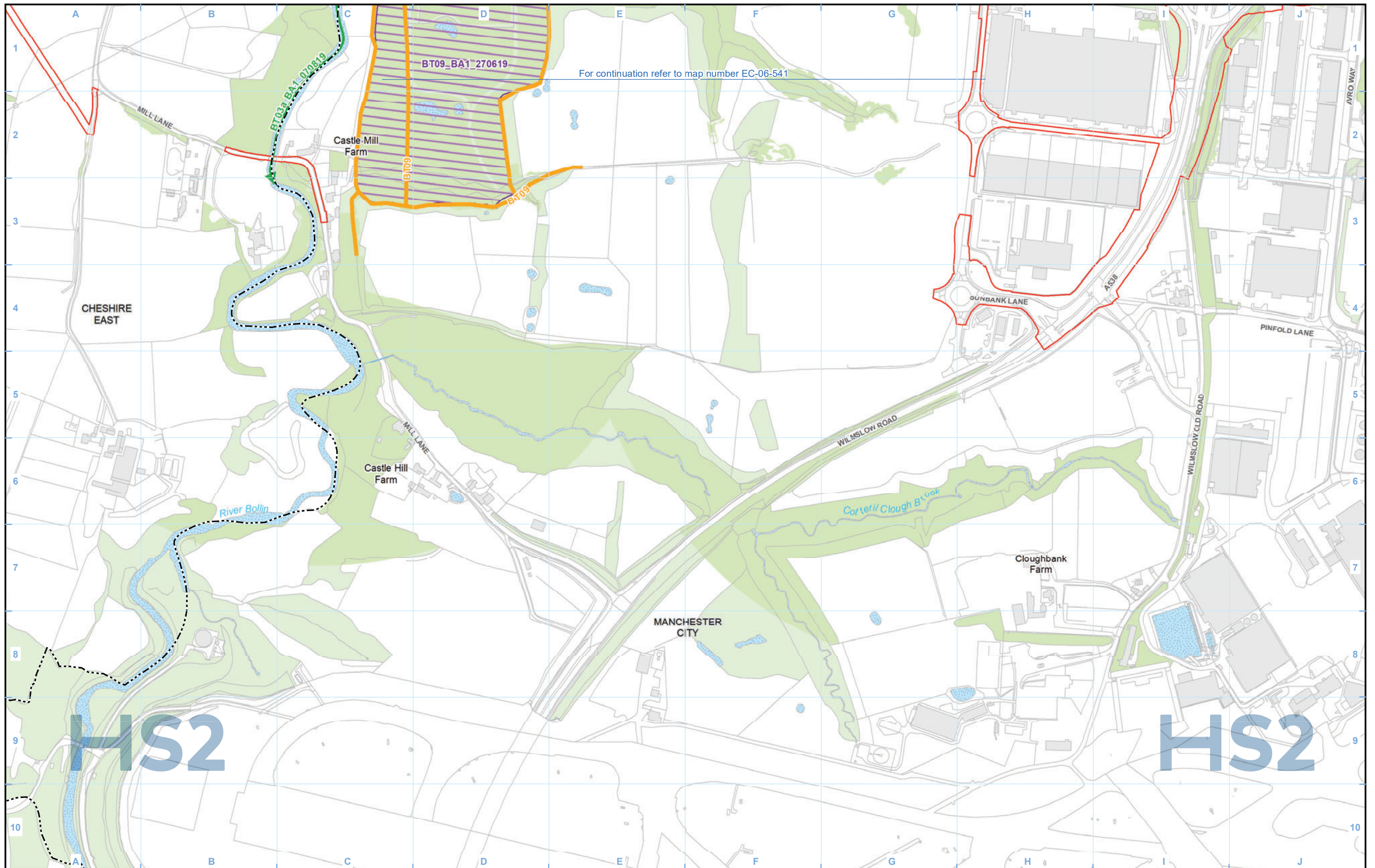
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Date: 12/08/21





For continuation refer to map number EC-06-541

Legend		

Map Number	EC-06-541-R1
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	

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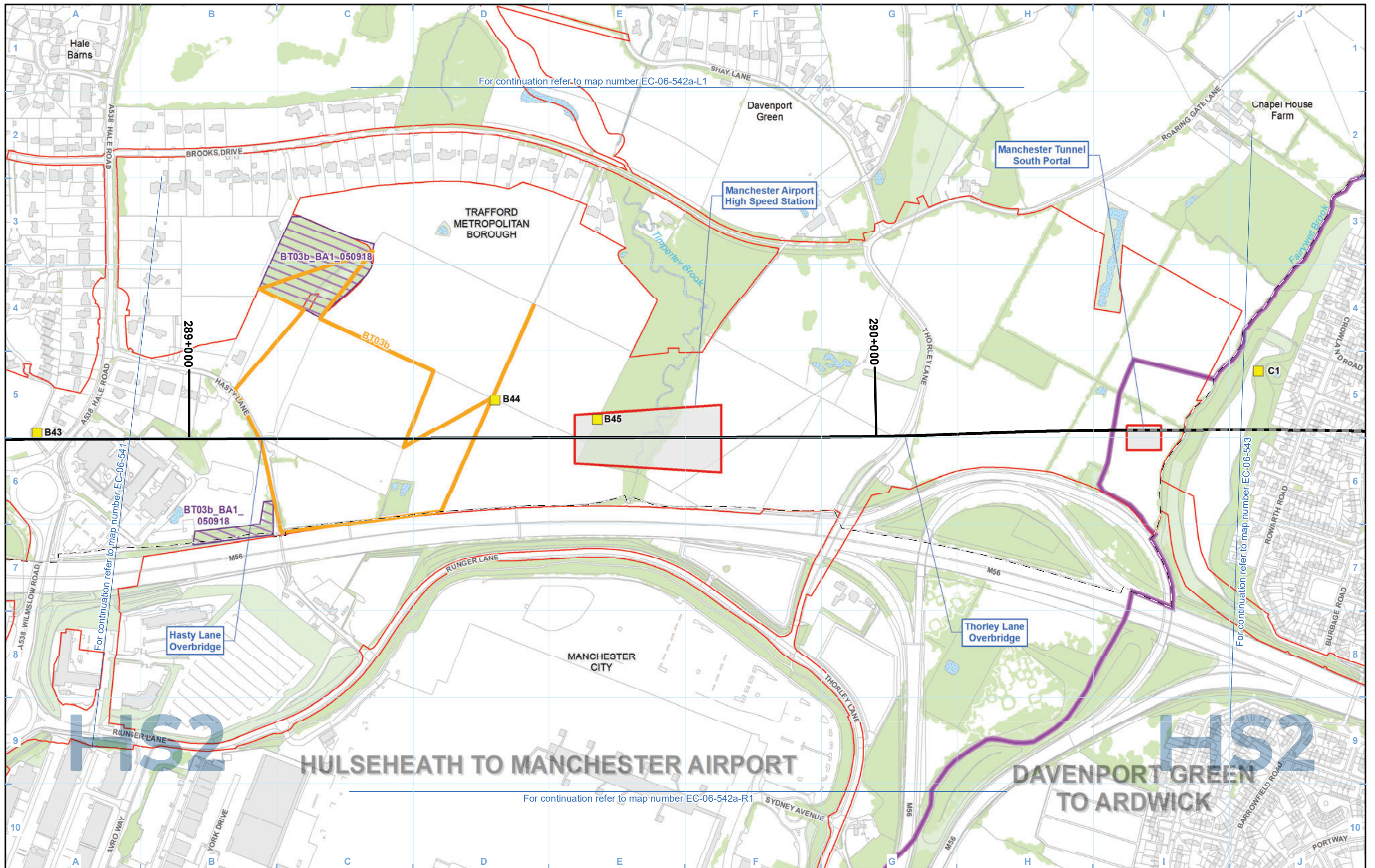
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Scale at A3: 1:5,000

Metres

Date: 12/08/21





**Legend**

- Route in 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-06-542a
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	

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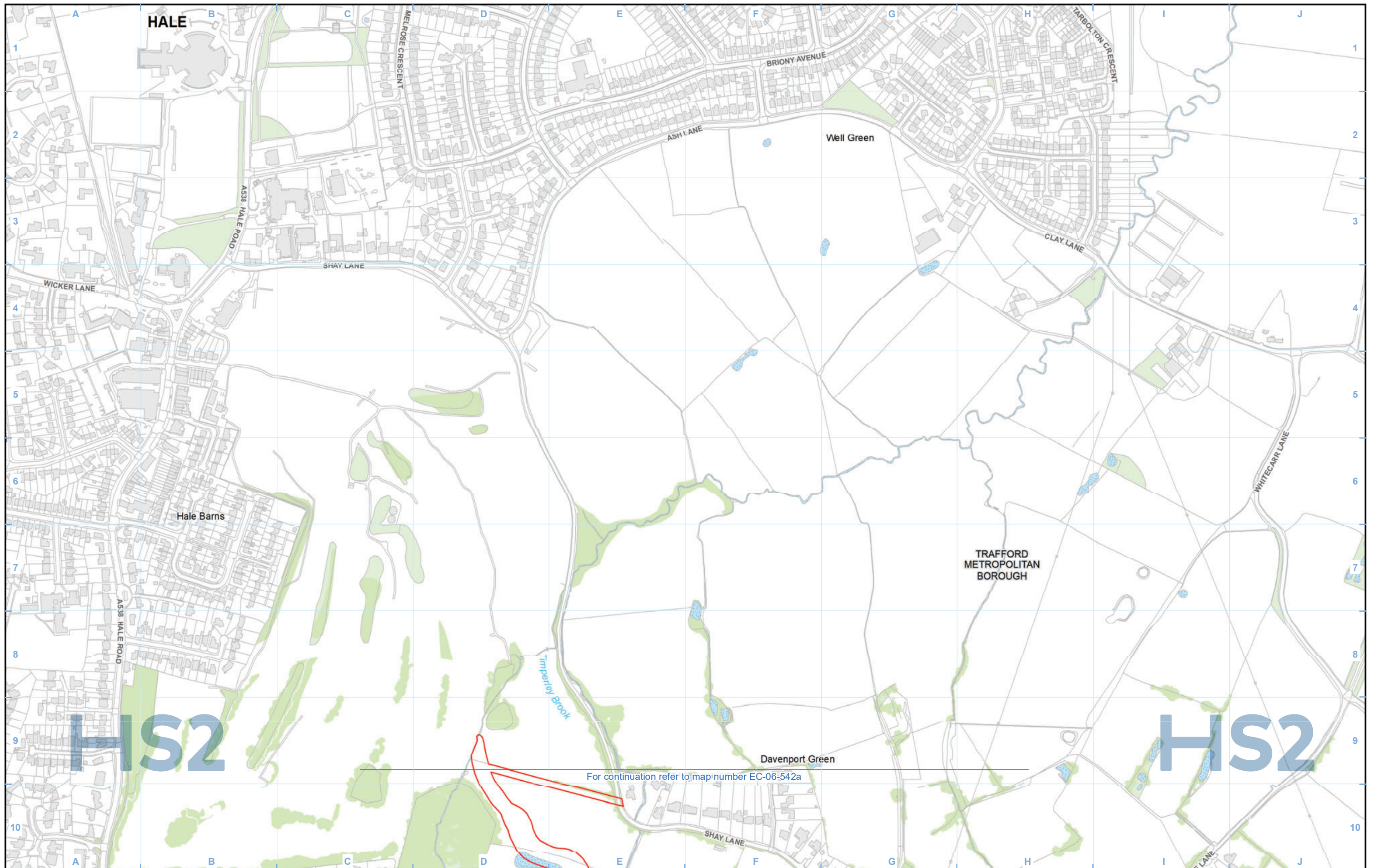
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Scale at A3: 1:5,000

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Metres

Date: 12/08/21





For continuation refer to map number EC-06-542a

**Legend**

- Route in 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-06-542a-L1
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	

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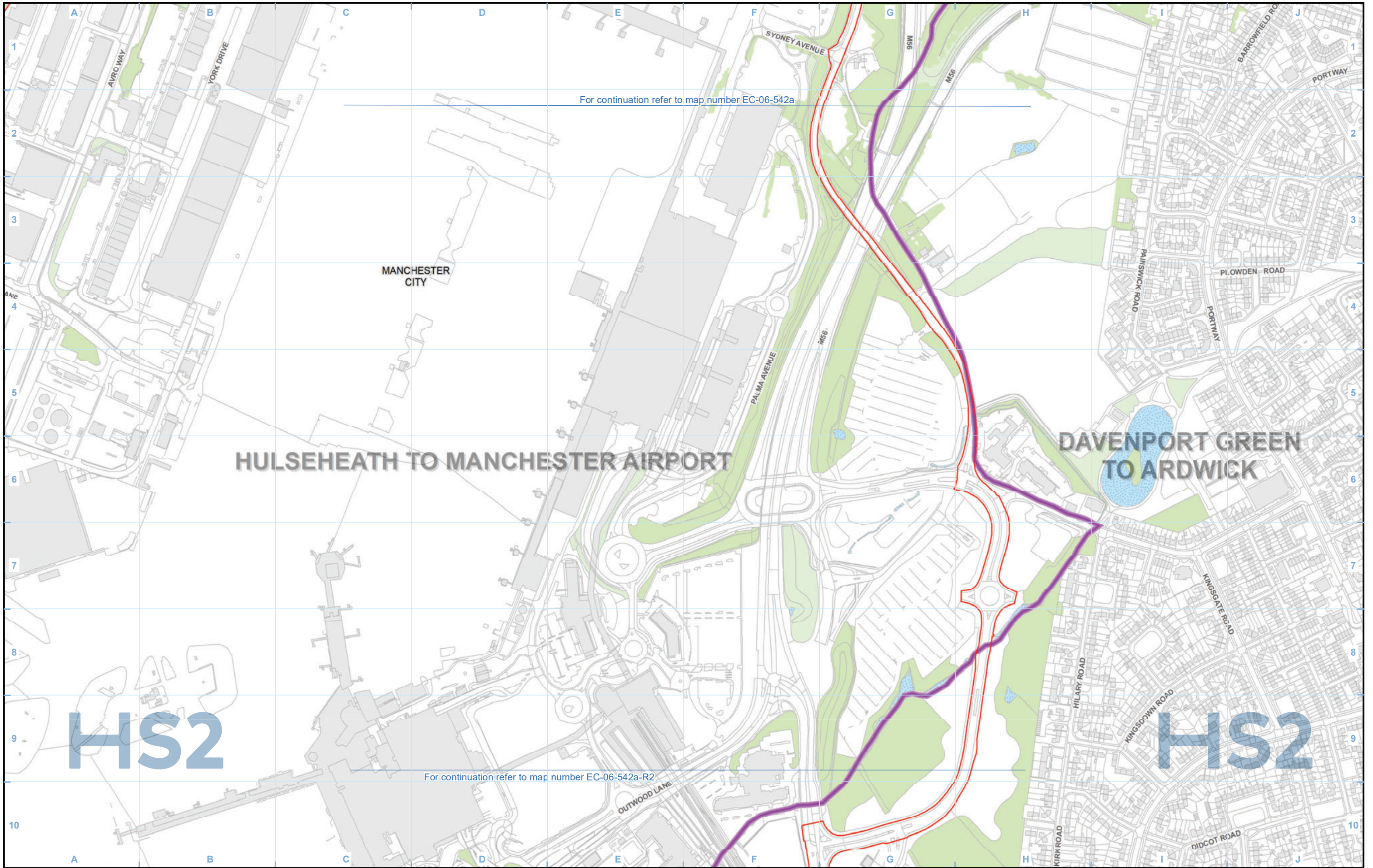
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For continuation refer to map number EC-06-542a

For continuation refer to map number EC-06-542a-R2

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

Map Number	EC-06-542a-R1
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	

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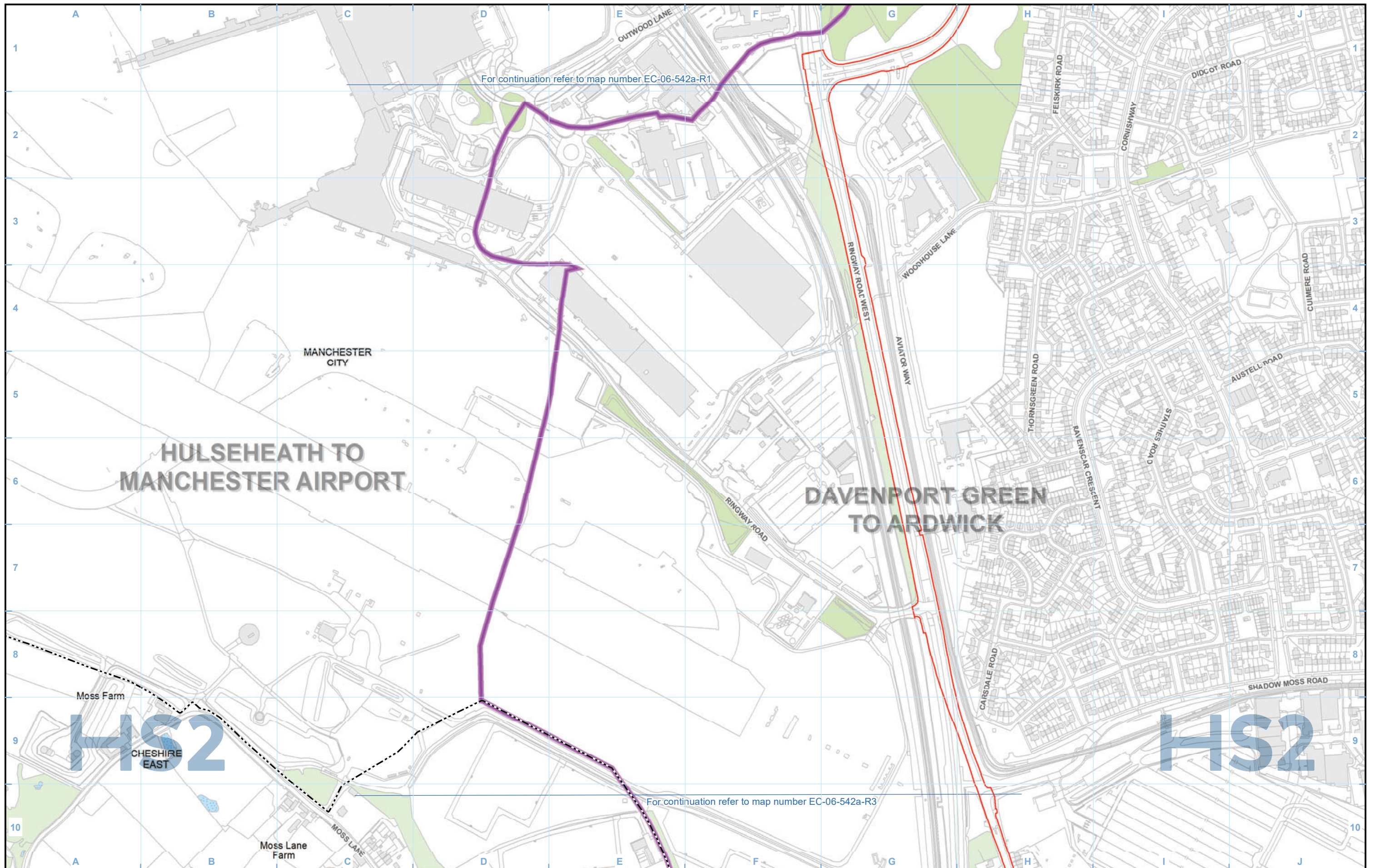
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003202-P01

Date: 12/08/21





Legend	
	Route in 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-06-542a-R2
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	

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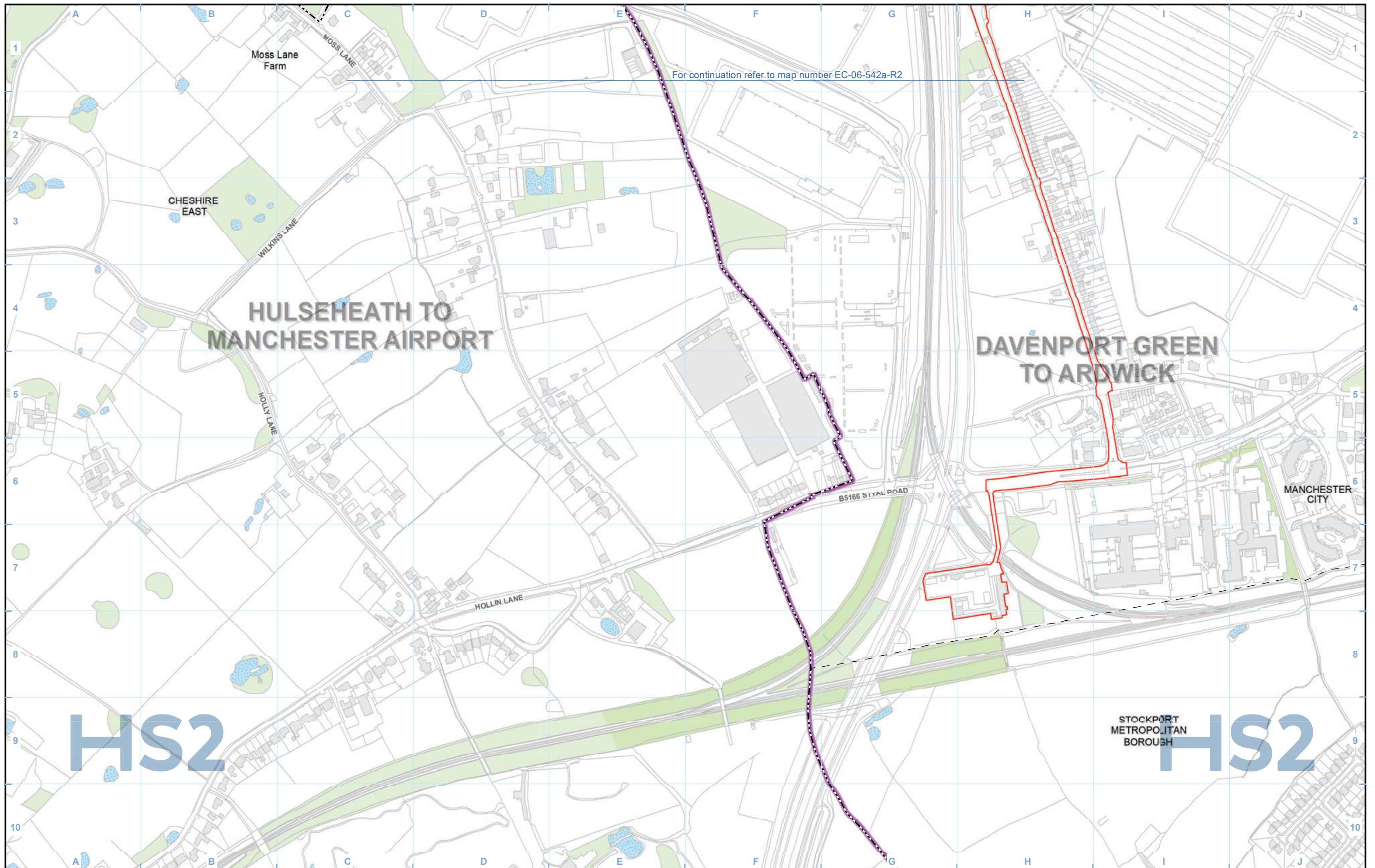
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Scale at A3: 1:5,000

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Metres

Date: 12/08/21





For continuation refer to map number EC-06-542a-R2

Legend		

Map Number	EC-06-542a-R3
Map Name	Bat - Activity
Community Area MA06: Hulseheath to Manchester Airport	

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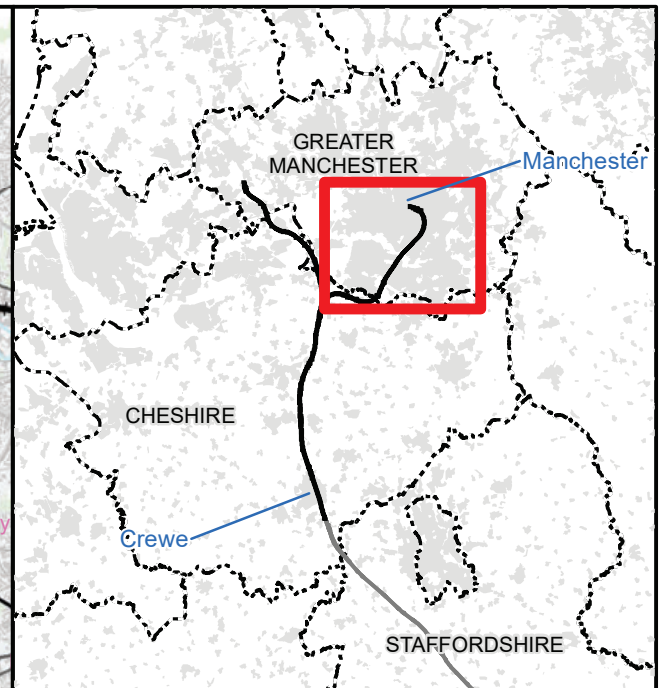
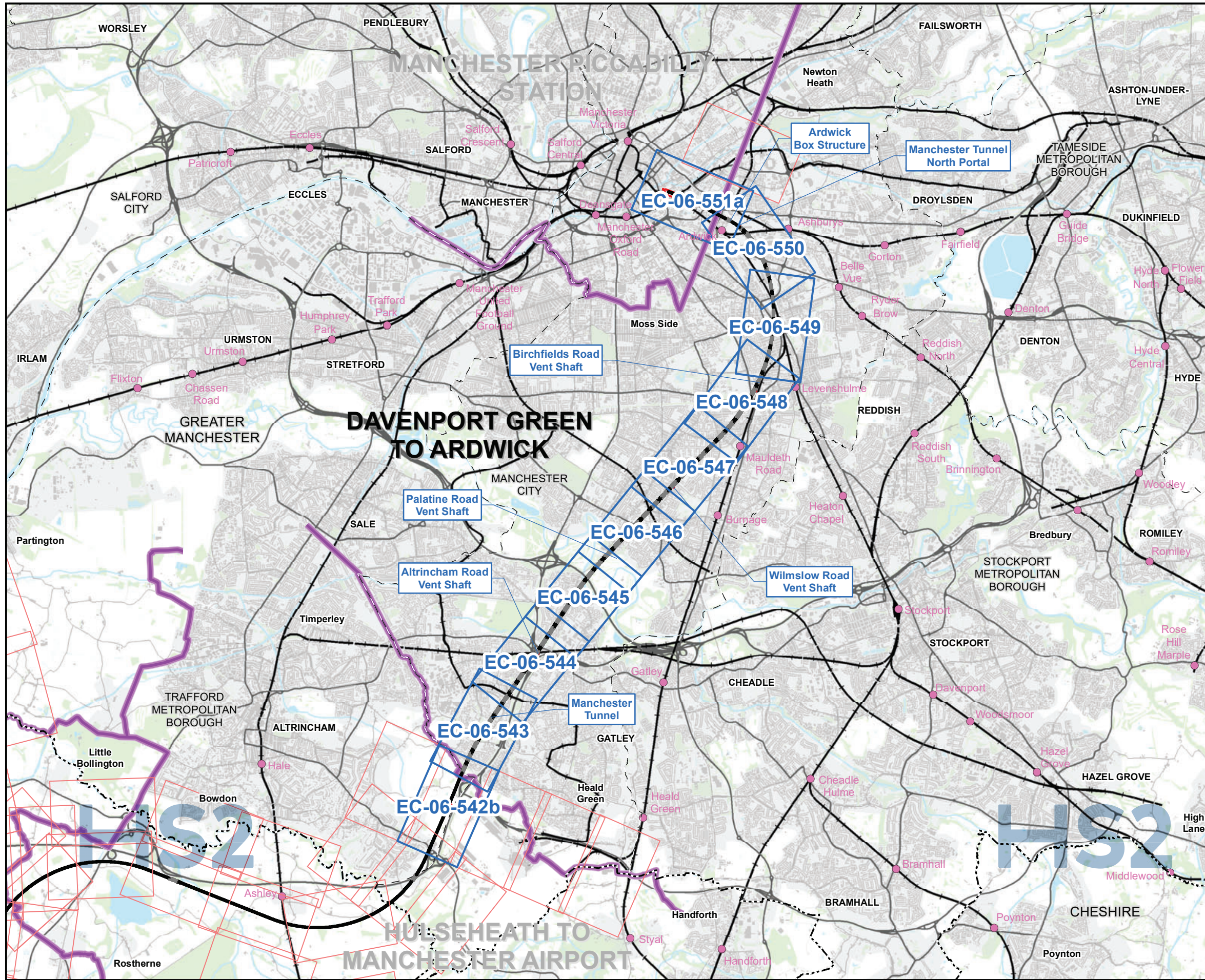
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Metres

Date: 12/08/21

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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 sheet included in this community area
  - Map sheet not included in this community area

Map Number: EC-06-INDEX-MA07

Map Name: Index Map of: Bat - Activity

Community Area MA07: Davenport Green to Ardwick

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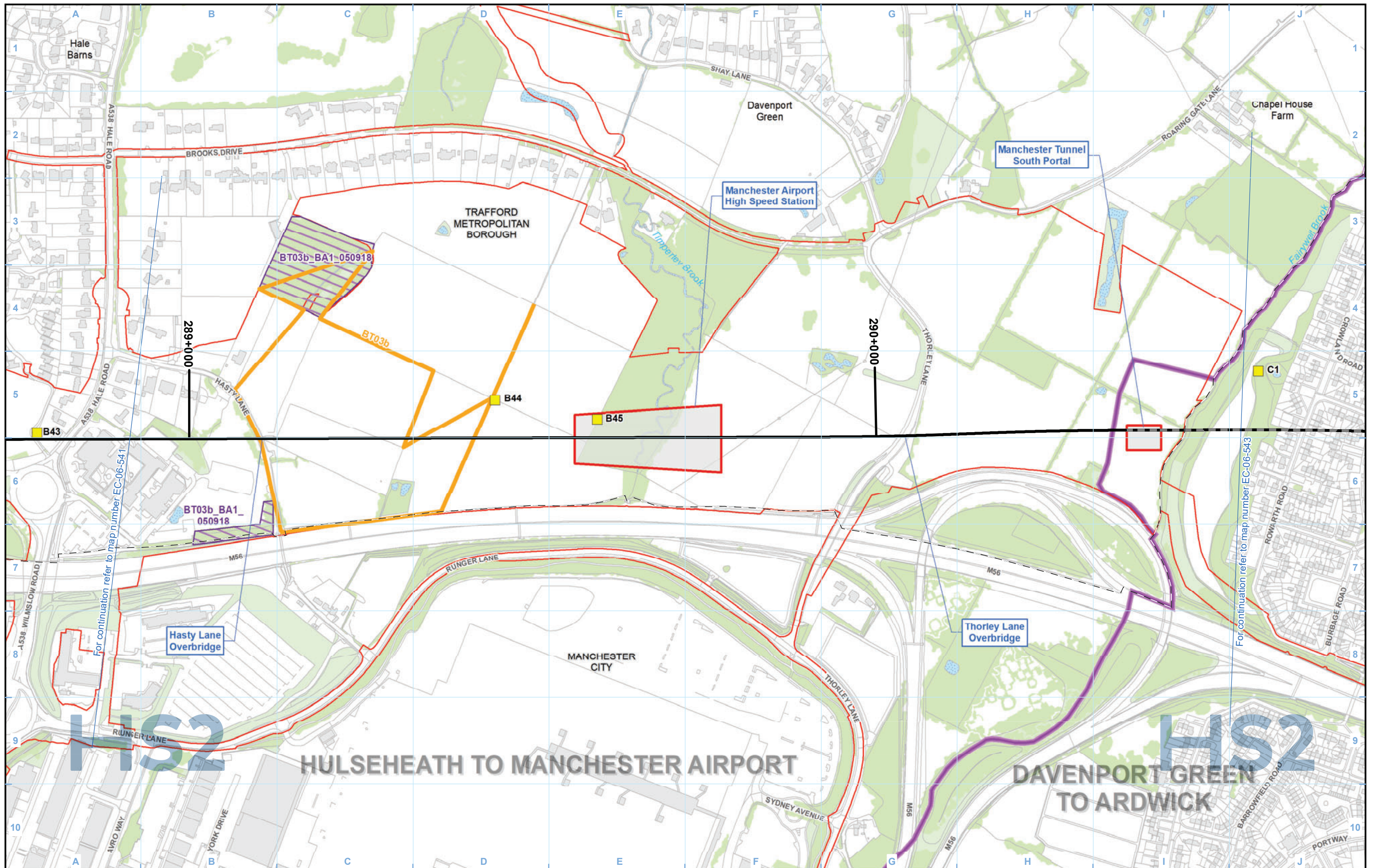
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001107-P01

Date: 12/08/21

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





**Legend**


Map Number	EC-06-542b
Map Name	Bat - Activity
Community Area MA07: Davenport Green to Ardwick	

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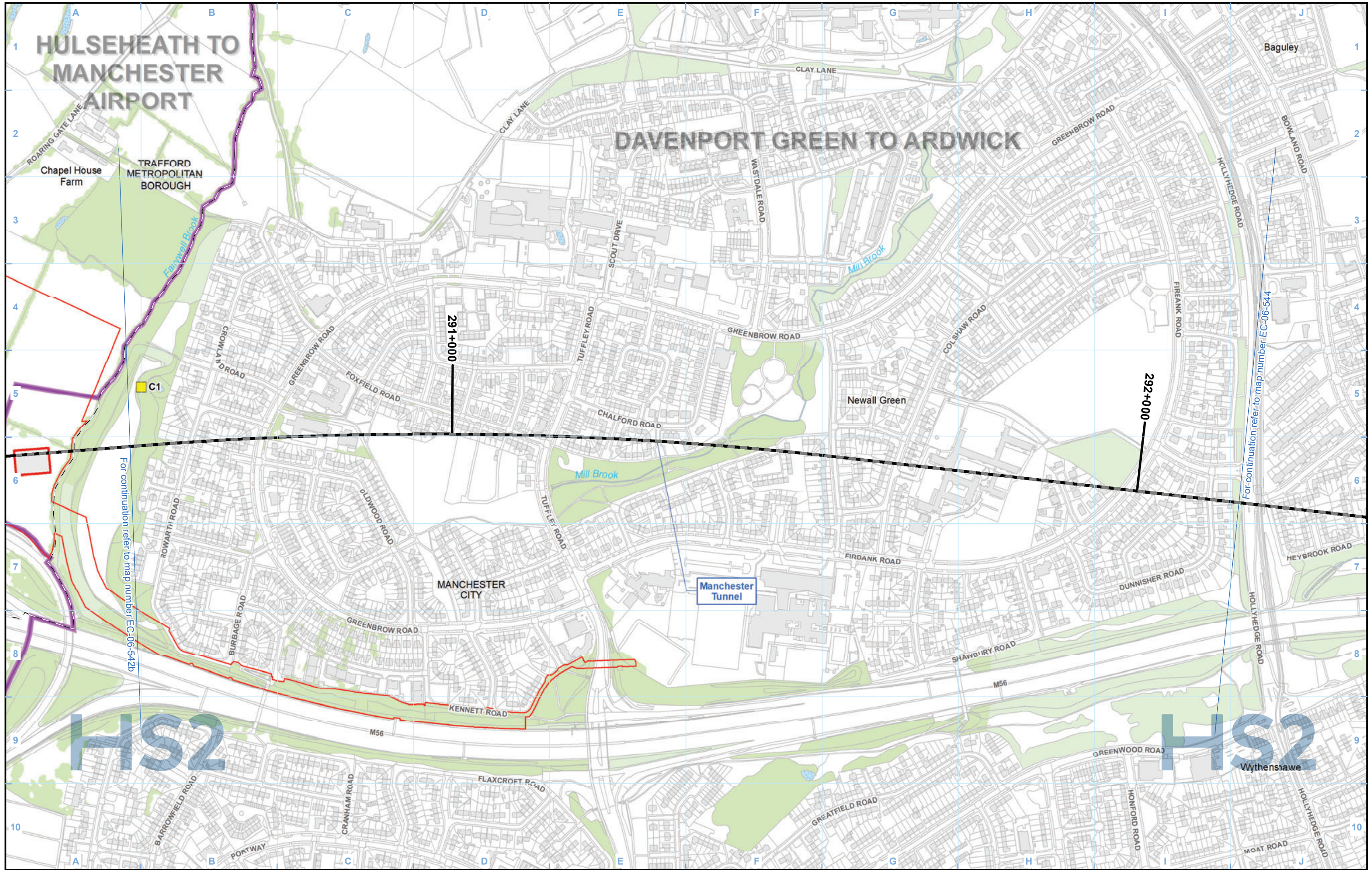
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Scale at A3: 1:5,000

0 50 100 150 200 Metres

Date: 12/08/21





- Legend**
- Route in 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-06-543
Map Name	Bat - Activity
Community Area MA07: Davenport Green to Ardwick	

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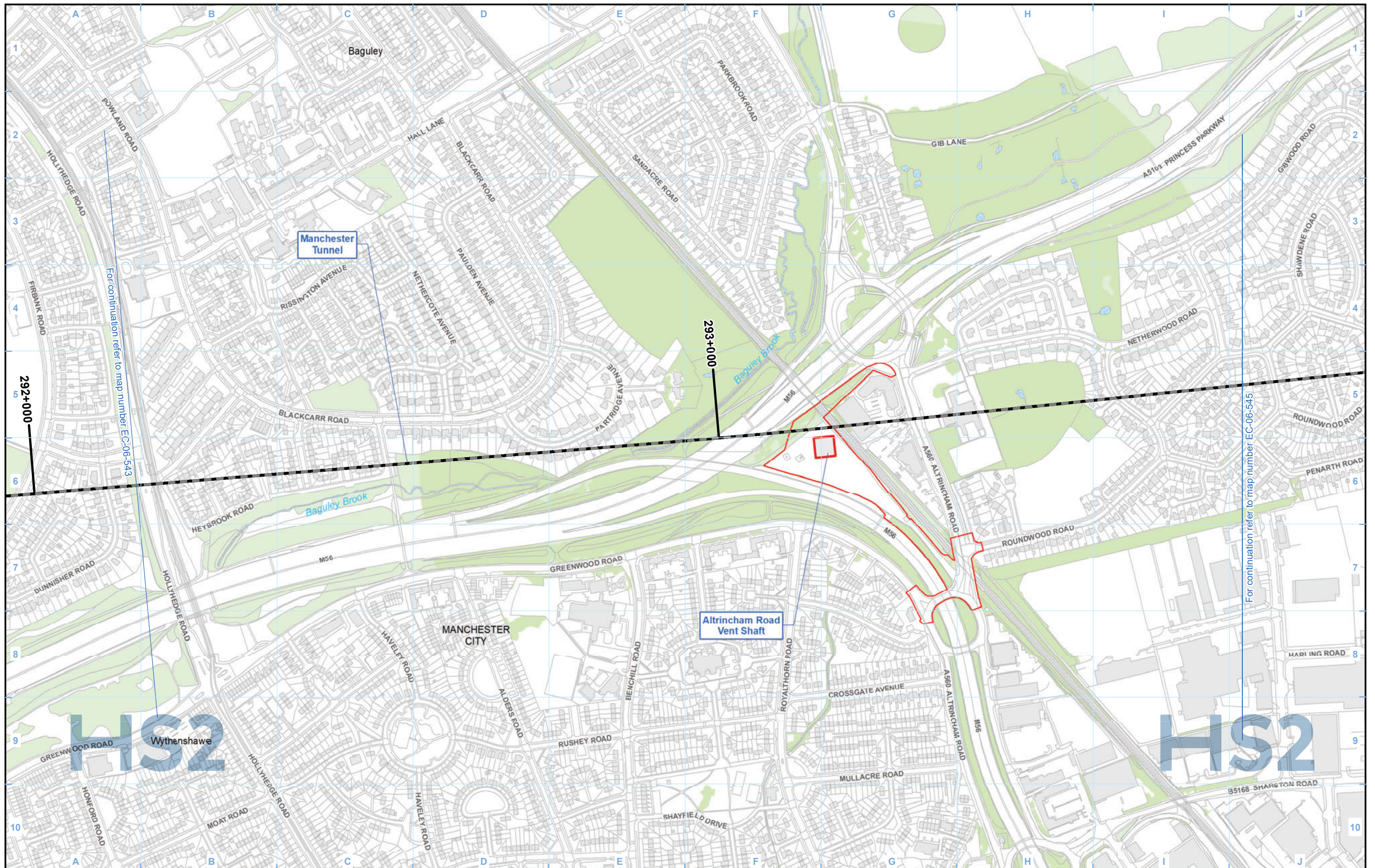
Scale at A3: 1:5,000

Date: 12/08/21

For continuation refer to map number EC-06-544

For continuation refer to map number EC-06-542b





For continuation refer to map number EC-06-543

For continuation refer to map number EC-06-545

- Legend**
- Route in 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-06-544
Map Name	Bat - Activity
Community Area MA07: Davenport Green to Ardwick	

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Scale at A3: 1:5,000

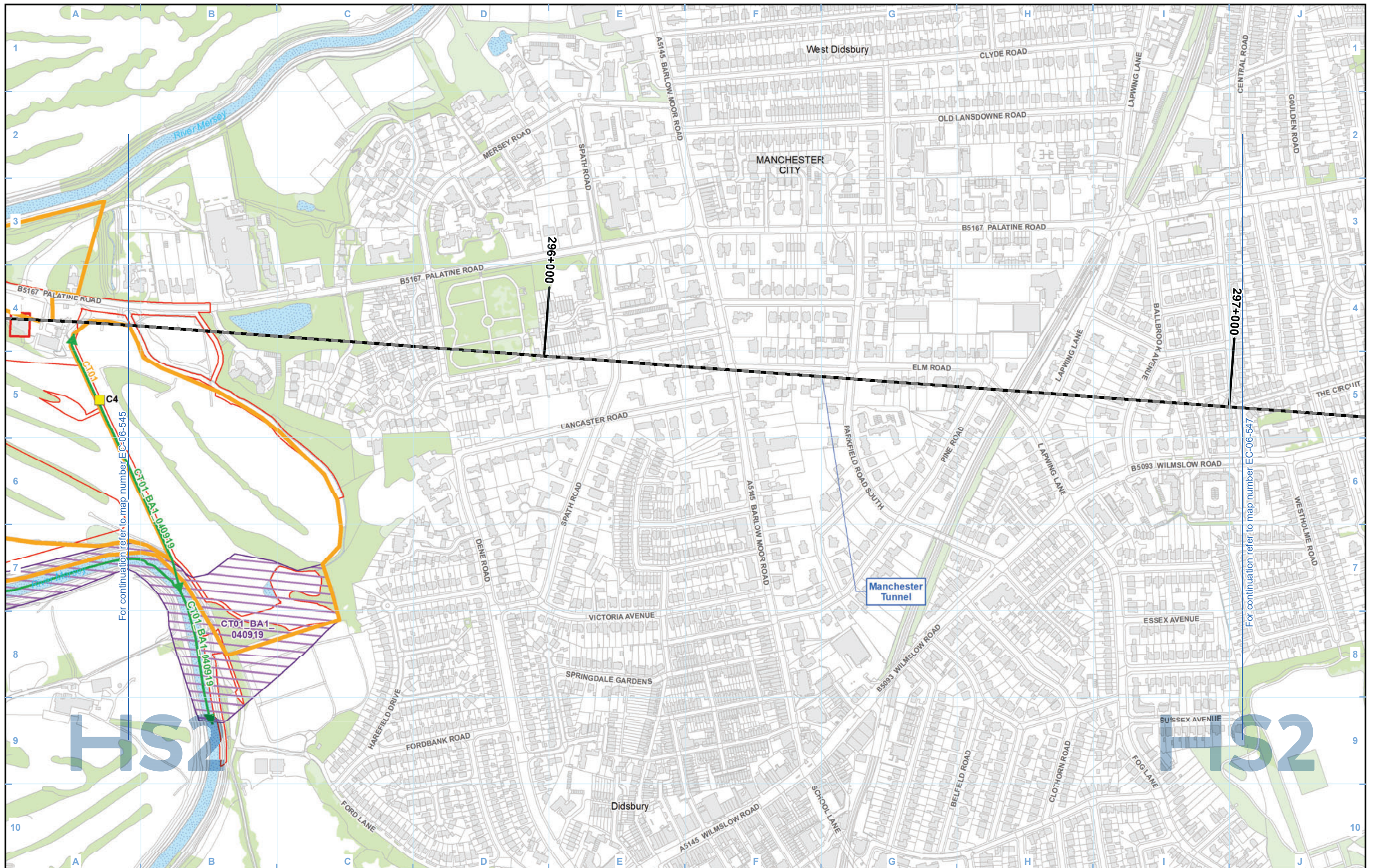
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Date: 12/08/21









- Legend**
- Route in 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-06-546
Map Name	Bat - Activity
Community Area MA07: Davenport Green to Ardwick	

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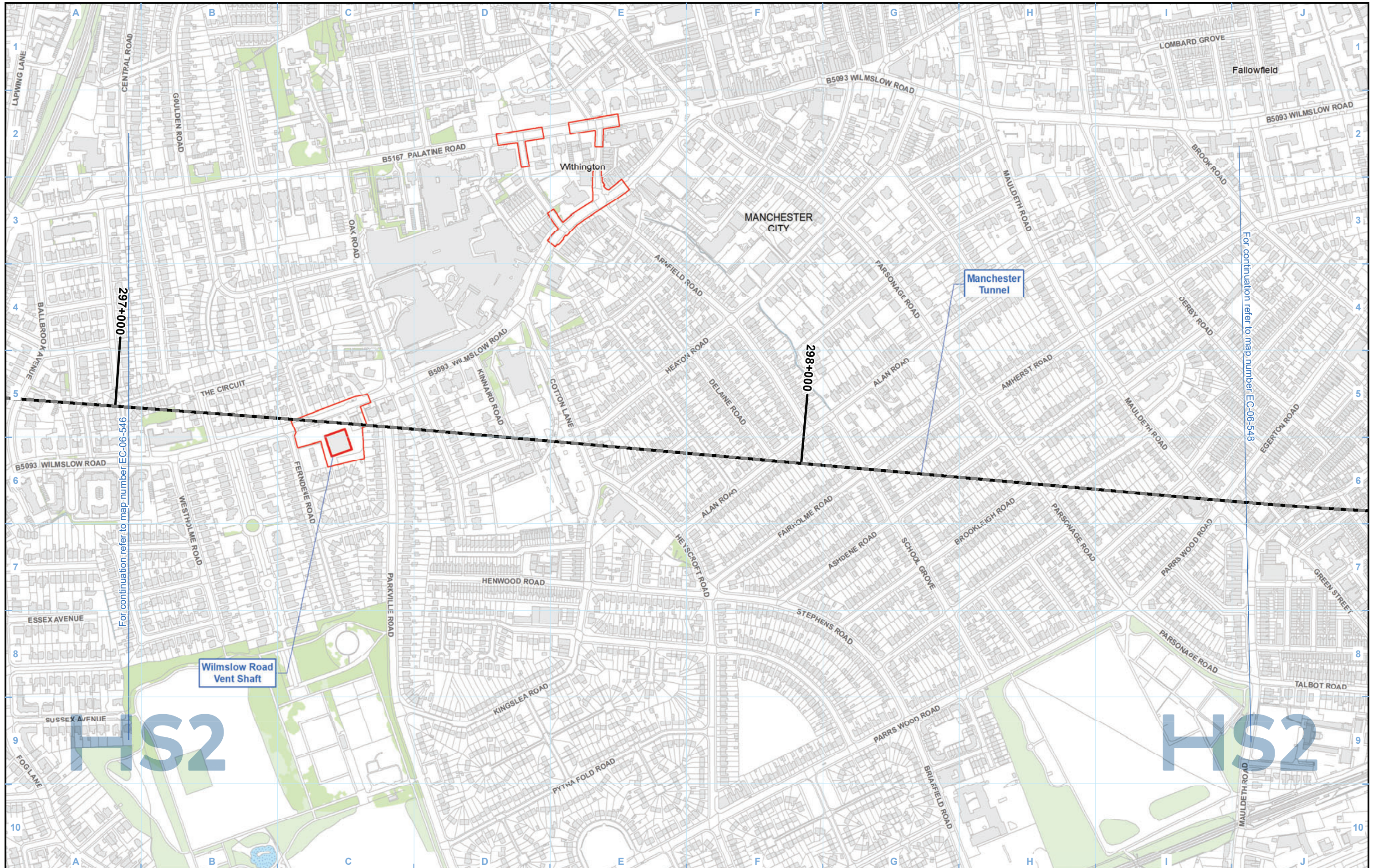
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Metres

Date: 12/08/21

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297+000

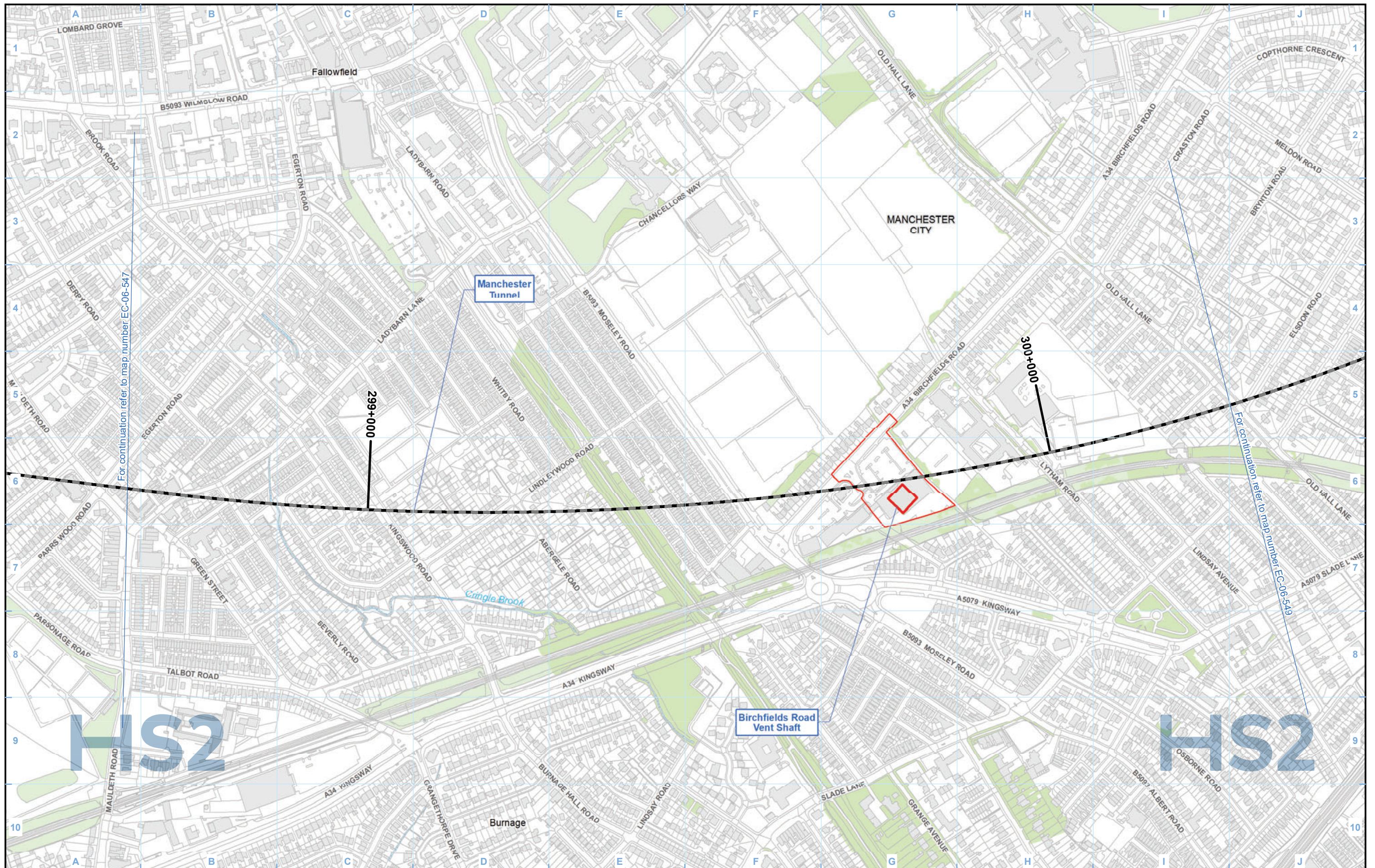
298+000

For continuation refer to map number EC-06-546

For continuation refer to map number EC-06-548

<b>Legend</b> Route in 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-06-547				<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 6QA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area MA07:</b> Davenport Green to Ardwick		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-001091-P01</small>	
				<b>Date: 12/08/21</b>	





Legend	
	Route in 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-06-548
Map Name	Bat - Activity
Community Area MA07: Davenport Green to Ardwick	

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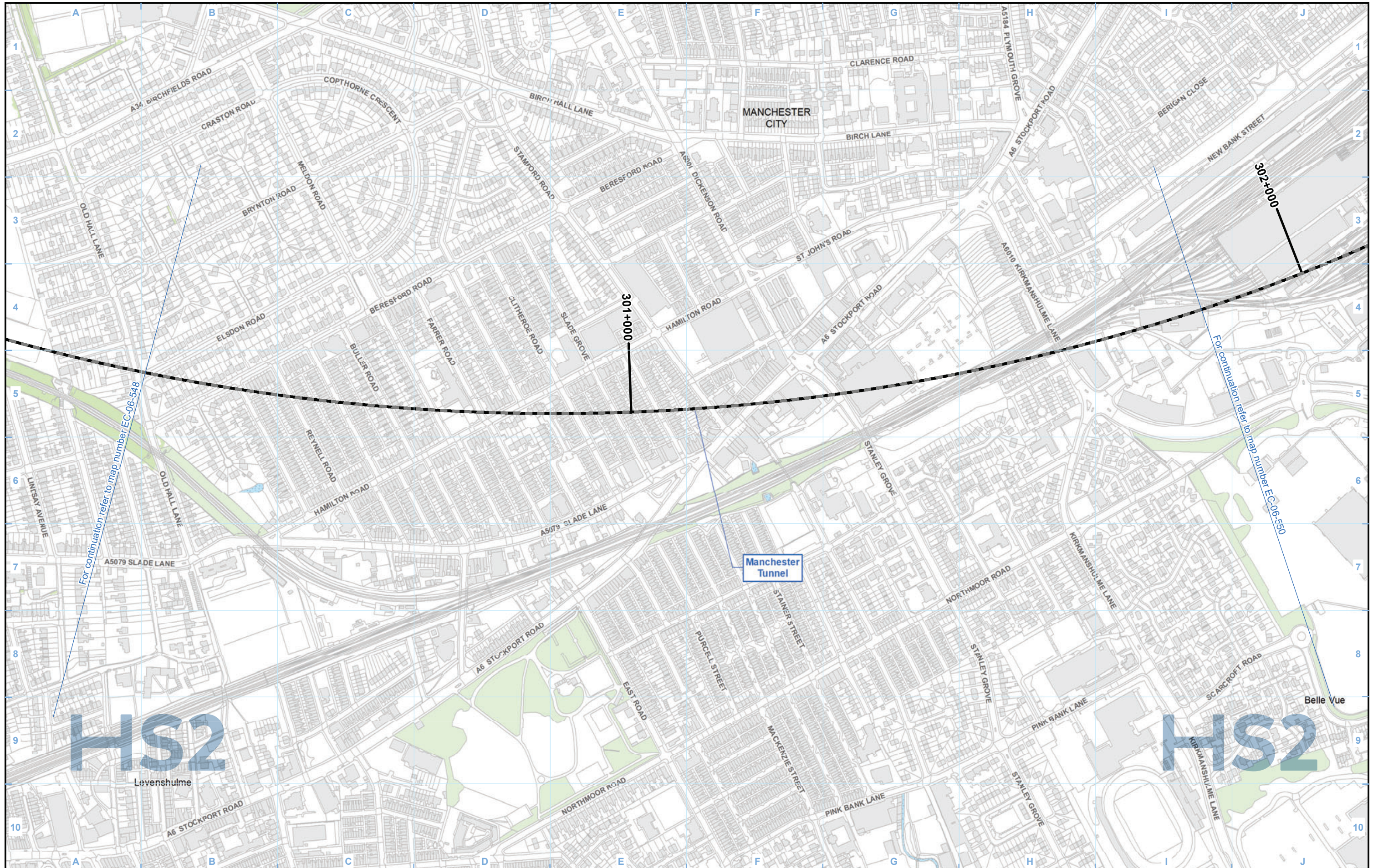
Scale at A3: 1:5,000

0 50 100 150 200  
Metres

Date: 12/08/21

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**Legend**

Route in 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		

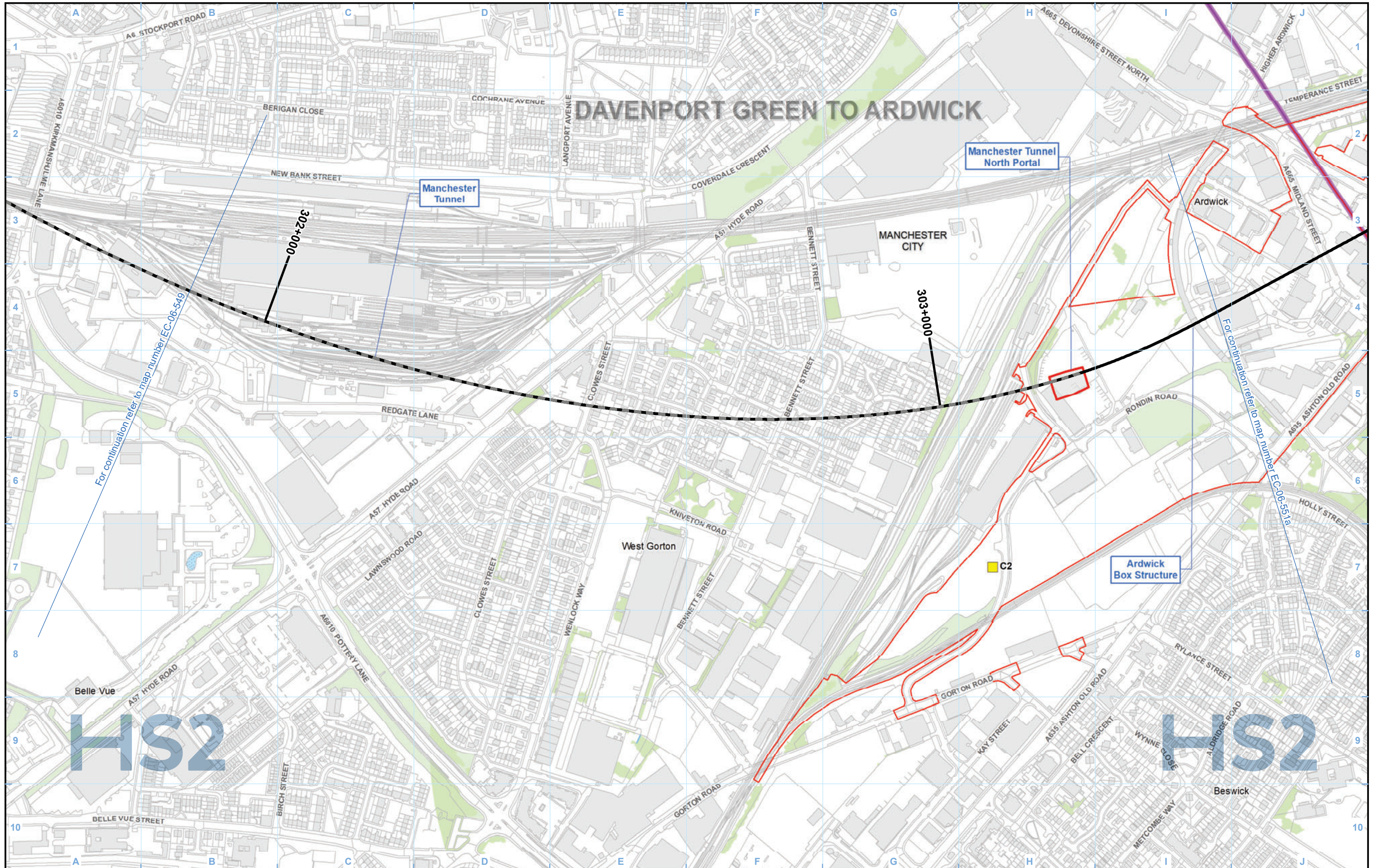
Map Number	EC-06-549
Map Name	Bat - Activity
Community Area MA07: Davenport Green to Ardwick	

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<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-001093-P01</small>	

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Date: 12/08/21





# DAVENPORT GREEN TO ARDWICK

<b>Legend</b> Route in 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-06-550				<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 6QA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area MA07:</b> Davenport Green to Ardwick		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-001094-P01	
				<b>Date:</b> 12/08/21	

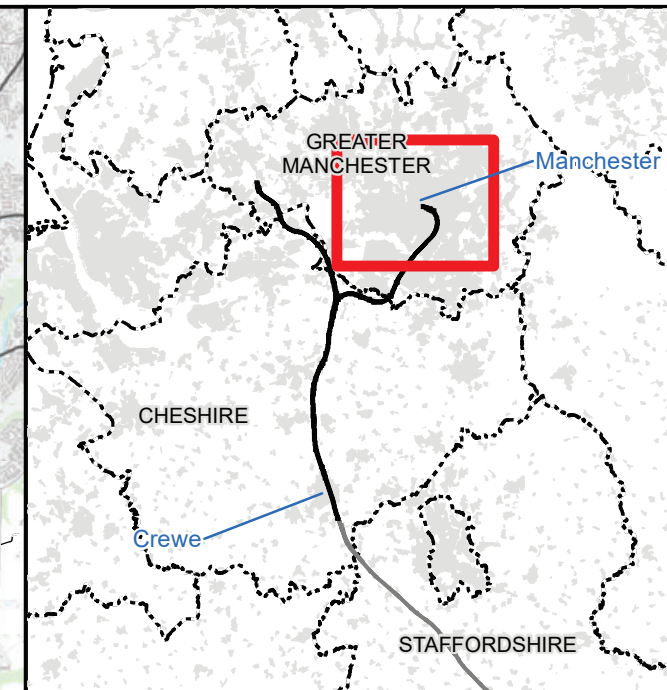
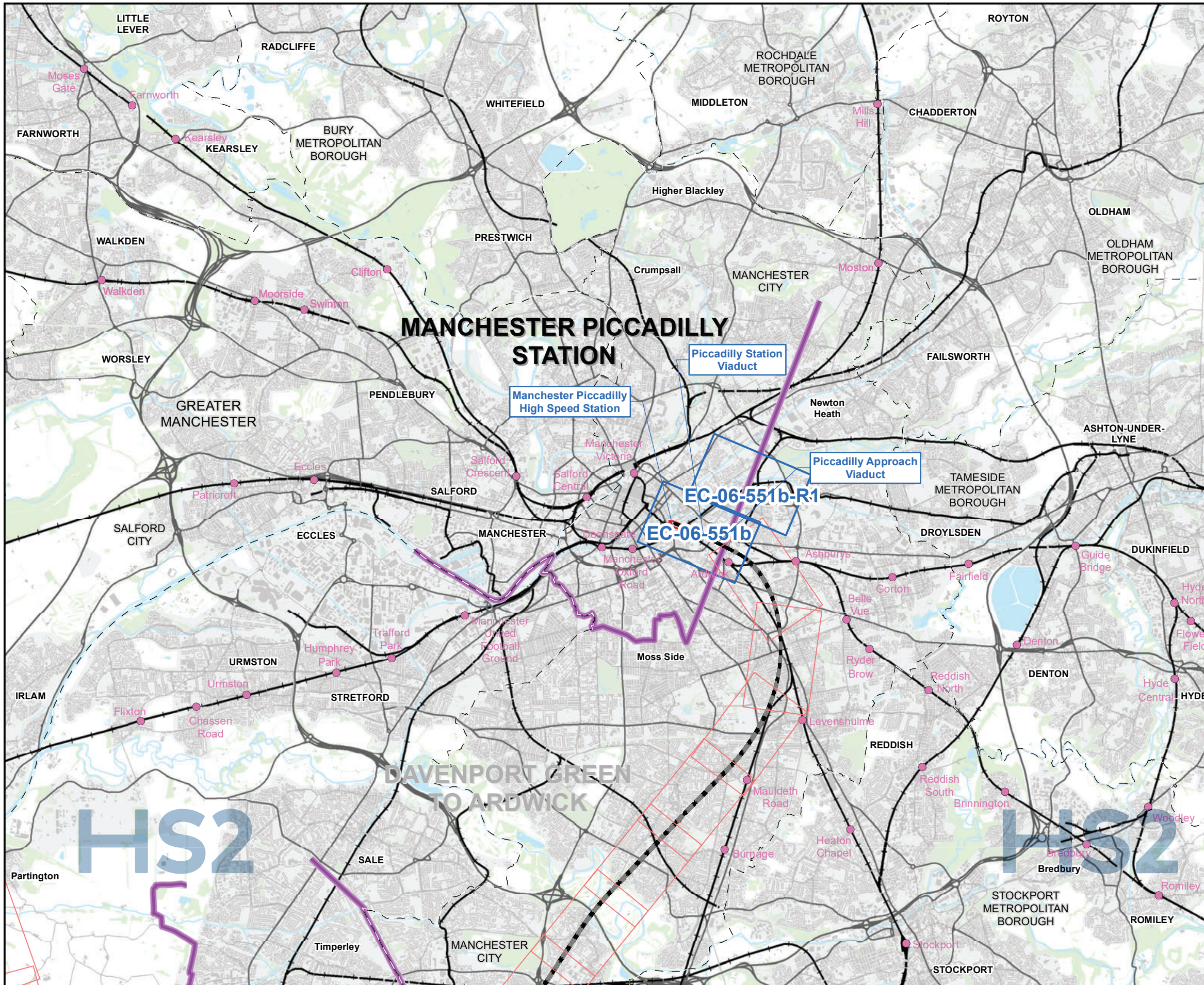






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### Map Series Information:

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 sheet included in this community area
  - Map sheet not included in this community area

Map Number	EC-06-INDEX-MA08
Map Name	Index Map of: Bat - Activity
	Community Area MA08: Manchester Piccadilly Station

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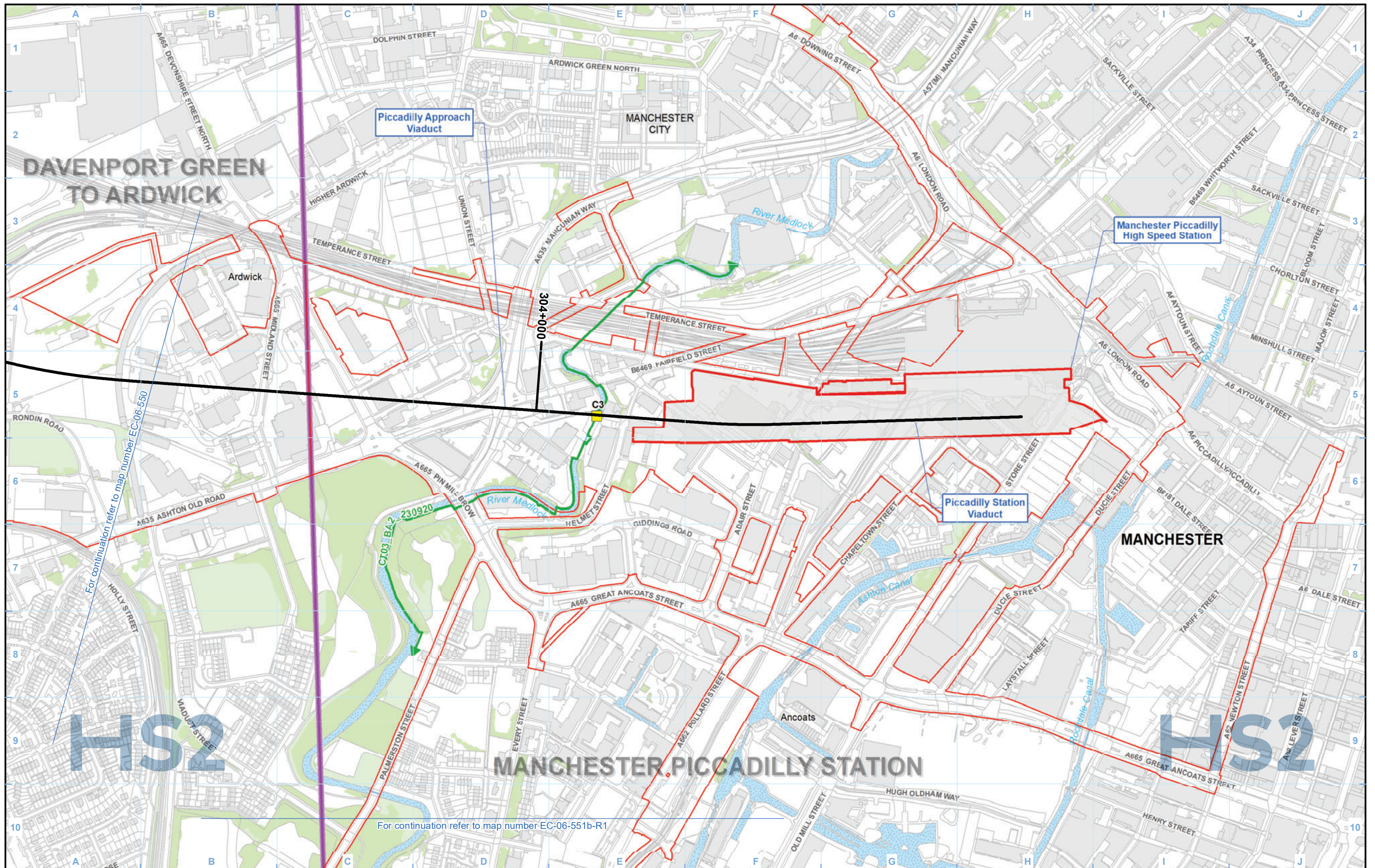
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Legend	
	Route in tunnel
	Watercourse
	Bat activity static detector location
	Route on surface
	Water body
	Activity transect route
	Depot, station, headhouse or portal building
	Woodland (verified by survey)
	Assumed key commuting route
	Land potentially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

Map Number	EC-06-551b
Map Name	Bat - Activity
Community Area MA08: Manchester Piccadilly Station	

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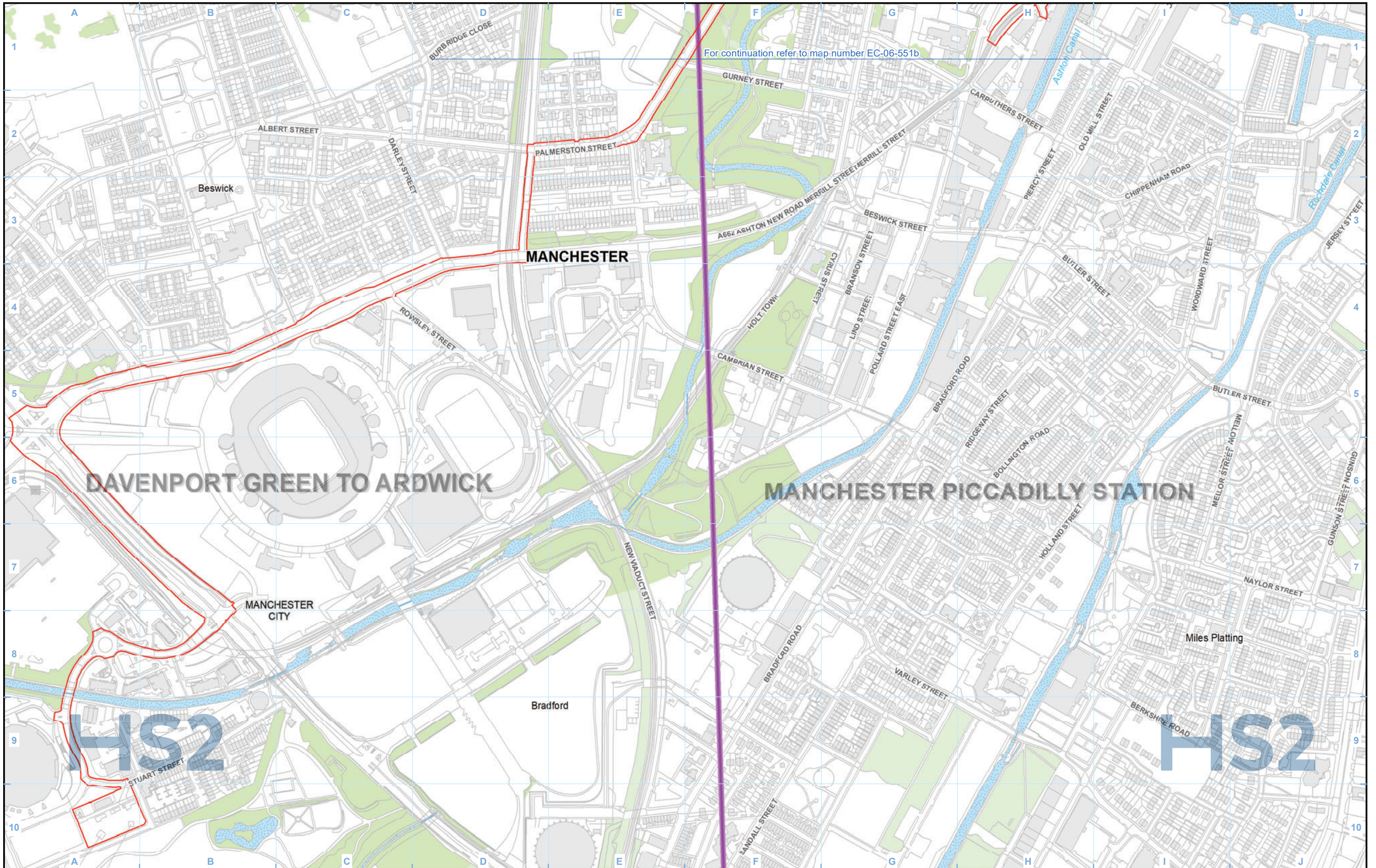
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Date: 12/08/21





For continuation refer to map number EC-06-551b

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

Map Number	EC-06-551b-R1
Map Name	Bat - Activity
Community Area MA08: Manchester Piccadilly Station	

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