

High Speed Rail (Crewe – Manchester)

**Background information and data
accompanying SES2 and AP2 ES**

Map Book

Ecology and biodiversity

(EC-02, EC-04, EC-05, EC-06, EC-08, EC-09, EC-10, EC-11, EC-12)

Part 1

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Part 1



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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Contents

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Map series name	Map series description	Map book part
EC-02 - Phase 1 Habitat (1:10,000)	This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey, 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 assessment. It principally details the results of great crested newt surveys conducted.	Background Information and Data map book - Ecology Part 1
EC-05 - Bats - Roost	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.	Background Information and Data map book - Ecology Part 1
EC-06 - Bat - Activity	This map series shows the location of bat activity surveys conducted to inform the environmental assessment. In addition it shows the location of the key bat foraging and commuting routes which have been established on the basis of the survey work conducted.	Background Information and Data map book - Ecology Part 2
EC-08 - Breeding Birds - Protected and Notable Species	This map series shows records of protected/notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds. The location of nest sites for species such as barn owl and raptor species which may be liable to persecution are not displayed.	Background Information and Data map book - Ecology Part 2
EC-09 - Wintering and Passage Birds - Protected and Notable Species	This map series shows records of protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.	Background Information and Data map book - Ecology Part 2
EC-10 - Phase 2 Habitat Survey	This map series shows the extent of detailed habitat surveys undertaken to inform the environmental assessment. The map shows the location of hedgerows that qualify as 'important hedgerows' under the wildlife and landscape criteria of the Hedgerows Regulations (1997).	Background Information and Data map book - Ecology Part 2
EC-11 - Other Protected and Notable Species (1)	This map series shows the extent of various protected species surveys conducted to inform the environmental assessment.	Background Information and Data map book - Ecology Part 2
EC-12 - Other Protected and Notable Species (2)	This map series shows the extent of various protected species surveys conducted to inform the environmental assessment.	Background Information and Data map book - Ecology Part 2

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 Supplementary Environmental Statement 2 (SES2) and the Additional Provision 2 Environmental Statement (AP2 ES), 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 SES2 and AP2 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 SES2 and AP2 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 dependent 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 majority of 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 Manchester to the right.

High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

Data dictionary and definitions

Data dictionary and definitions

Legend features	Definition	Source	Copyright
250m radius from all water bodies where presence of GCN is confirmed	250m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
500m radius from all water bodies where presence of GCN is confirmed	500m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
50m radius from all water bodies where presence of GCN is confirmed	50m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
Activity transect route	Transect route that was surveyed during bat activity surveys.	High Speed Two (HS2) Ltd	
Aquatic invertebrate survey location	Location where aquatic invertebrate surveys were conducted.	High Speed Two (HS2) Ltd	
Area contains new survey data	Areas where new survey data has been collected.	High Speed Two (HS2) Ltd	
Areas isolated by significant barriers to amphibian movement	Areas isolated by significant barriers to amphibian movement.	High Speed Two (HS2) Ltd	
Assumed key areas of foraging habitat	Likely areas of bat foraging habitat for local bat populations, derived from bat activity survey results.	High Speed Two (HS2) Ltd	
Assumed key commuting route	Key commuting and foraging bat routes that have been identified by an ecologist after review of available survey data and application of professional judgement.	High Speed Two (HS2) Ltd	
Bat activity static detector location	Location where bat activity static detectors were used during survey period.	High Speed Two (HS2) Ltd	
Bird of Conservation Concern	Field survey records of selected protected and/or notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds.	High Speed Two (HS2) Ltd	
Breeding birds - survey extent	Area where breeding birds survey was conducted.	High Speed Two (HS2) Ltd	
Community area boundary	The Environmental Statement has been split into 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. Trees are categorised into those with potential to support bat roosts (high and medium potential) and those that have confirmed roosts. Confirmed roosts are further categorised into Hibernation, Maternity, Other or Multiple roosts.	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
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 2021.
County/Unitary Authority boundary	County and local authority boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
Depot, station, headhouse or portal building	Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures.	High Speed Two (HS2) Ltd	
District/Borough boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
Ditch vegetation survey	Extent of Ditch vegetation surveys.	High Speed Two (HS2) Ltd	
eDNA survey complete Survey incomplete Scoped in - HSI/walkover only Scoped in - no access permission Scoped out - no survey required	Areas where a GCN survey was completed. Survey varies from population size class assessment, presence/absence survey or scoping visit only where it was then scoped out or it was identified as requiring further survey.	High Speed Two (HS2) Ltd	
Fish survey location Terrestrial invertebrate survey extent	Location where fish and aquatic invertebrate surveys were conducted.	High Speed Two (HS2) Ltd	
Important' Hedgerow confirmed by field survey Possibly 'Important' Hedgerow - no access available for survey	Location of those hedgerows that have been identified as 'important hedgerows' or possible 'important hedgerows' under the wildlife and landscape criteria in the Hedgerows Regulations (2007).	High Speed Two (HS2) Ltd	
Lake habitat	Extent of lake habitat surveys.	High Speed Two (HS2) Ltd	
Land potentially required during construction	Boundary defining the maximum possible extent of construction works required to build HS2 as far as the current level of design allows. This only covers surface works and includes all tunnel portals, vent shafts and headhouses, but does not apply to wholly tunnelled sections or to air rights. It also encompasses associated highway, access, drainage and utility works.	High Speed Two (HS2) Ltd	
National Vegetation Classification survey	Extent of National Vegetation Classification surveys.	High Speed Two (HS2) Ltd	
Other notable species relevant to assessment	Field survey records of selected protected and/or notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds.	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
Otter: Active otter holt Potential otter holt Suitable habitat for otter	Location where otter surveys have been completed. Results vary from suitable habitat for otter, potential otter holt and active otter holt.	High Speed Two (HS2) Ltd	
Phase 1 Habitat	Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey or the area mapped is between 250-500m from the boundary of the land potentially required during construction, the information is based on available desk study and interpretation of aerial photography.	High Speed Two (HS2) Ltd	
Pond survey: national pond survey PSYM rapid assessment method	Location and type of pond surveys conducted.	High Speed Two (HS2) Ltd	
River habitat survey extent	Extent of river habitat surveys.	High Speed Two (HS2) Ltd	
River macrophyte survey extent	Extent of river macrophyte surveys.	High Speed Two (HS2) Ltd	
Route in tunnel	Represents the proposed route of HS2, split into route on surface and tunneled sections.	High Speed Two (HS2) Ltd	
Route on surface	Represents the proposed route of HS2, split into route on surface and tunneled sections.	High Speed Two (HS2) Ltd	
Species listed on Annex I of the Birds Directive	Field survey records of selected protected and/or notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds.	High Speed Two (HS2) Ltd	
Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Field survey records of selected protected and/or notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds.	High Speed Two (HS2) Ltd	
Species listed on Schedule 1 of the Wildlife and Countryside Act	Field survey records of selected protected and/or notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds.	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 2022.
Water vole: Survey undertaken, presence confirmed Survey undertaken, assumed absent Watercourse potentially suitable for water vole, no or limited access for survey	Extent of water vole survey. Those areas where access was available either had confirmed presence or water voles were assumed absent.	High Speed Two (HS2) Ltd	

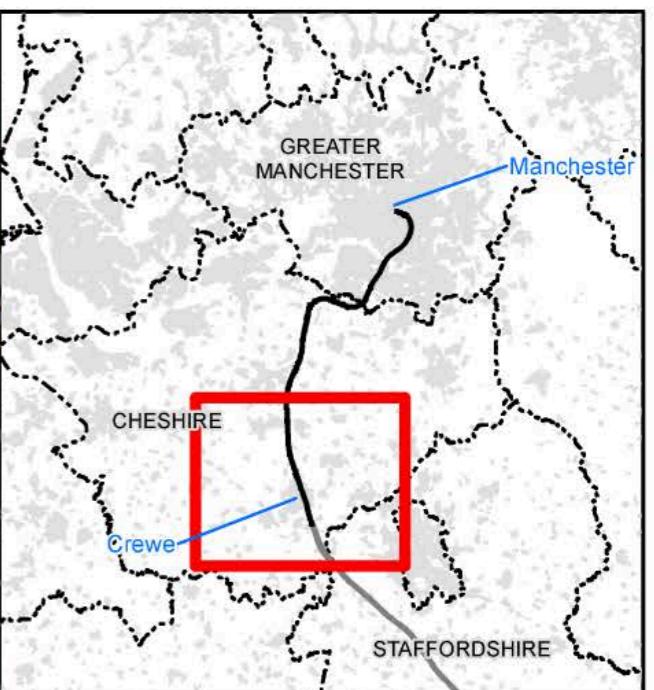
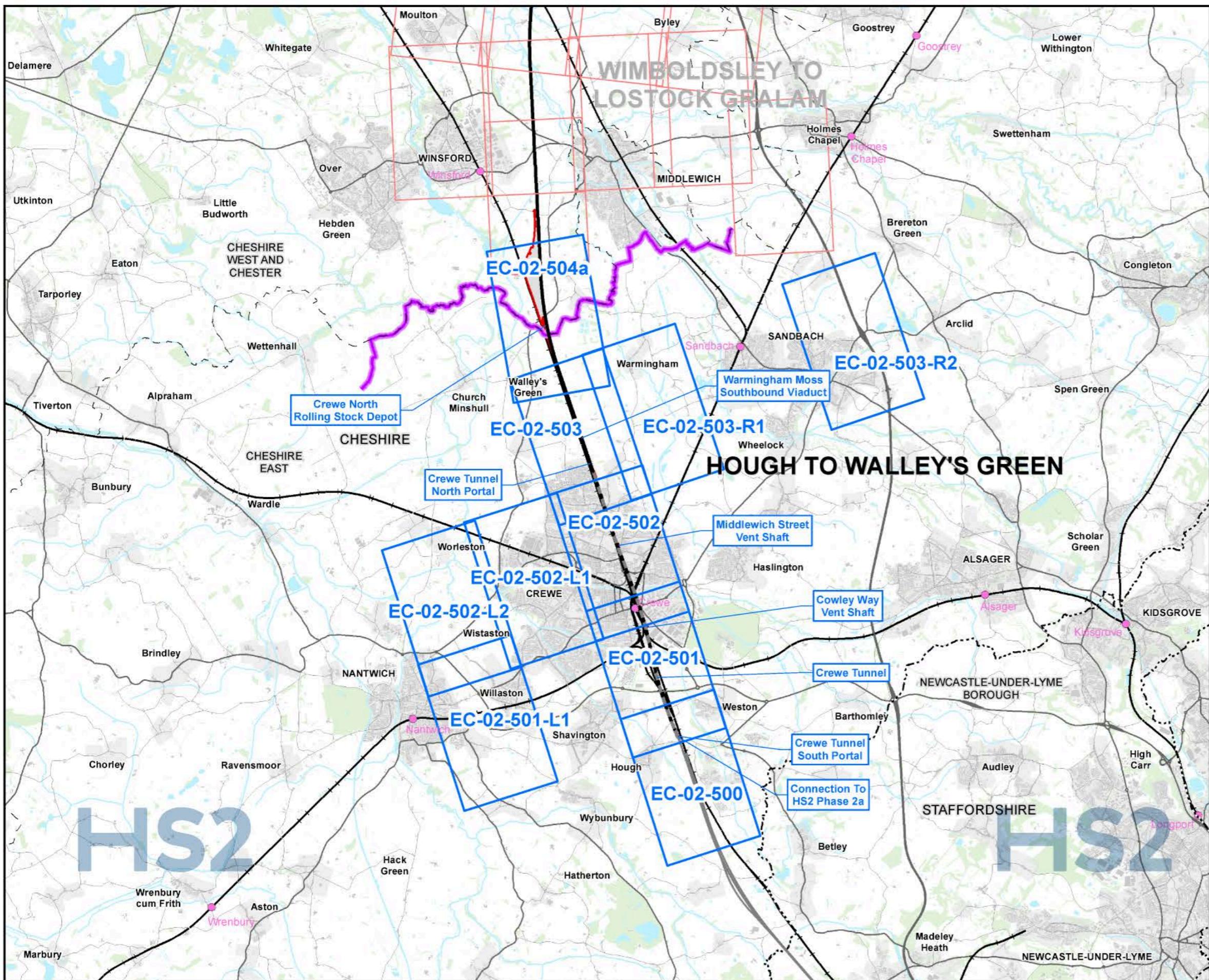
Legend features	Definition	Source	Copyright
Watercourse	Any channel through which water flows, can be natural or manmade. They are split into two categories (main rivers or ordinary watercourses) in England and Wales for regulation purposes.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2022.
White clawed crayfish: Manual search and/or trapping conducted and presence confirmed Manual search and/or trapping conducted and assumed absent Site identified as potentially suitable but no access available	Location where white clawed crayfish survey was conducted. Location categorised as to whether presence was confirmed, assumed absent or no access was available.	High Speed Two (HS2) Ltd	
Wintering & passage birds - survey extent	Area where wintering and passage birds survey was conducted.	High Speed Two (HS2) Ltd	
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 2022.
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 accompanying
Supplementary Environmental Statement 2 and
Additional Provision 2 Environmental Statement**

EC-02 – Phase 1 Habitat (1:10,000)



Map Number: EC-02-INDEX-MA01

Map Name: Index Map of:
Phase 1 Habitat (1:10,000)
SES2 and AP2 ES

Community Area MA01:
Hough to Walley's Green

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

Doc Number: 2PT27-MWJ-EV-MAP-M000-000805-P01

Date: 29/03/23

Phase 1 Habitat survey legend

Habitat Areas	
	Lichen/bryophyte heath
	Montane heath/dwarf herb
	Broadleaved woodland - plantation
	Dry heath/acid grassland
	Coniferous woodland - semi-natural
	Coniferous woodland - plantation
	Mixed woodland - semi-natural
	Mixed woodland - plantation
	Scrub - dense/continuous
	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Broadleaved woodland - recently felled
	Coniferous woodland - recently felled
	Mixed woodland - recently felled
	Acid grassland - unimproved
	Acid grassland - semi-improved
	Neutral grassland - unimproved
	Neutral grassland - semi-improved
	Calcareous grassland - unimproved
	Calcareous grassland - semi-improved
	Improved grassland
	Marsh/marshy grassland
	Poor semi-improved grassland
	Bracken - continuous
	Bracken - scattered
	Upland species-rich ledges
	Other tall herb and fern - ruderal
	Other tall herb and fern - non ruderal
	Dry dwarf shrub heath - acid
	Dry dwarf shrub heath - basic
	Wet dwarf shrub heath

	Inland cliff - acid/neutral
	Inland cliff - basic
	Scree - acid/neutral
	Scree - basic
	Limestone pavement
	Other exposure - acid/neutral
	Other exposure - basic
	Cave
	Quarry
	Spoil
	Mine
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

Linear Habitats	
	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Running water - eutrophic
	Running water - mesotrophic
	Running water - oligotrophic
	Running water - dystrophic
	Running water - marl
	Running water - brackish
	Inland cliff
	Scree
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

Point Habitats	
	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees

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Map Number EC-02 - Legend

Map Name EC-02 - Phase 1 Habitat Survey
Legend

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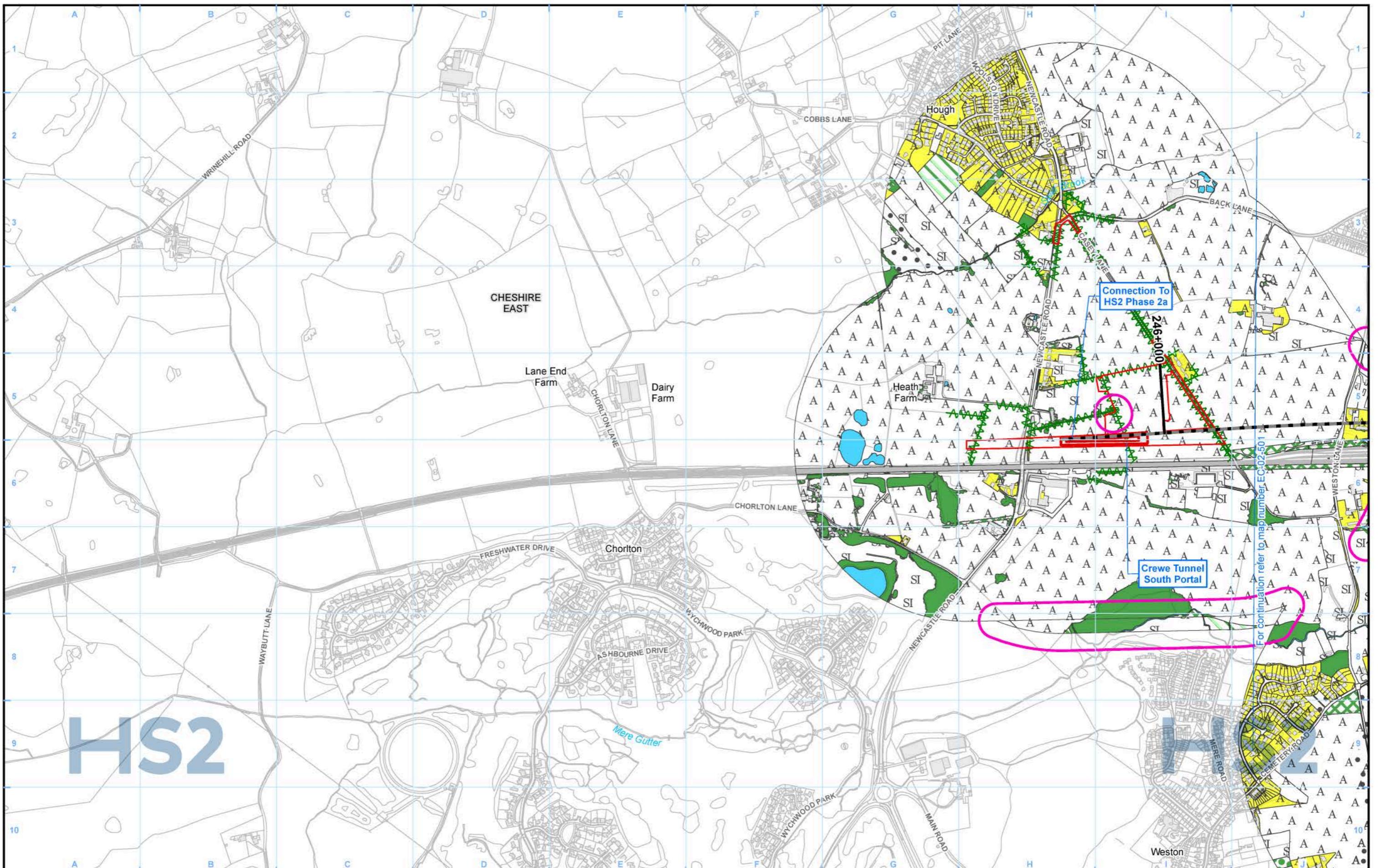
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Legend

- 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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Number

EC-02-500

Map Name

**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA01:
Hough to Walley's Green



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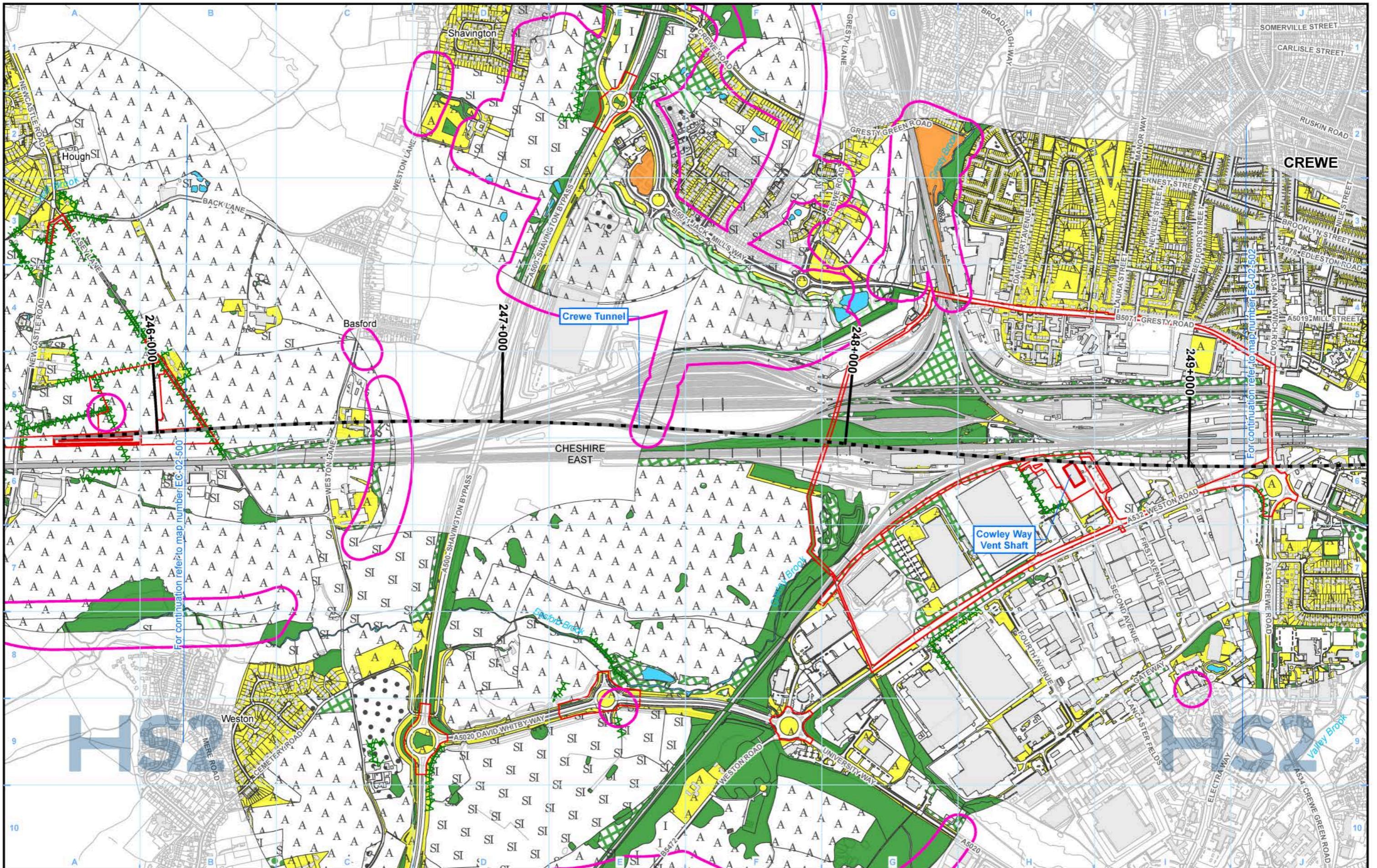
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Scale at A3: 1:10,000

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Metres

Date: 29/03/23



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

For full legend please refer to EC-02 Legend page
■ Area contains new survey data

Map Number: **EC-02-501**
Map Name: **Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA01:
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Metres


Legend

- Route in tunnel
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- Depot, station, headhouse or portal building
- Land potentially required during construction
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Map Number
EC-02-501-L1

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**



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Metres

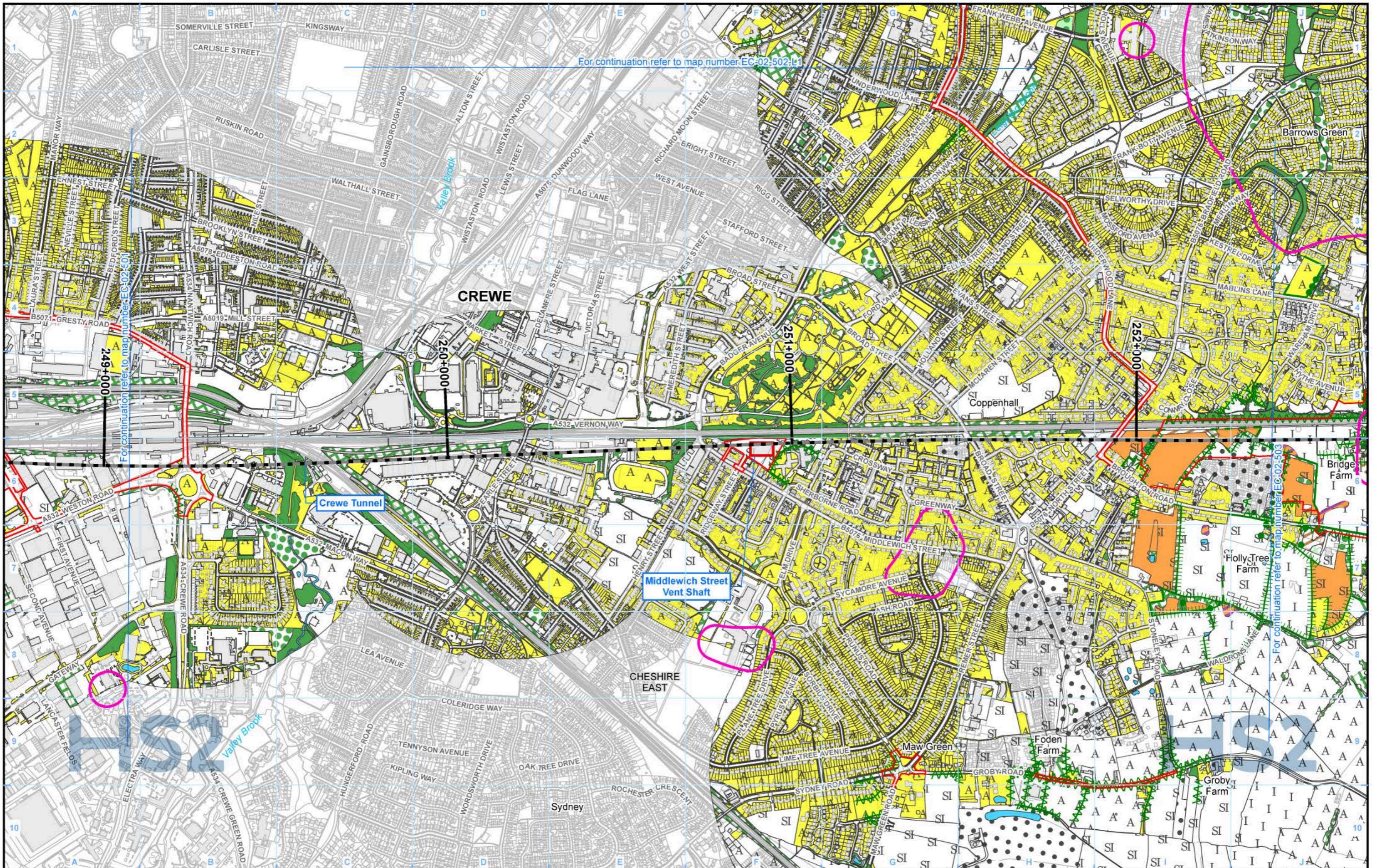
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Date: 29/03/23



Map Number

EC-02-502

Map Name

**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

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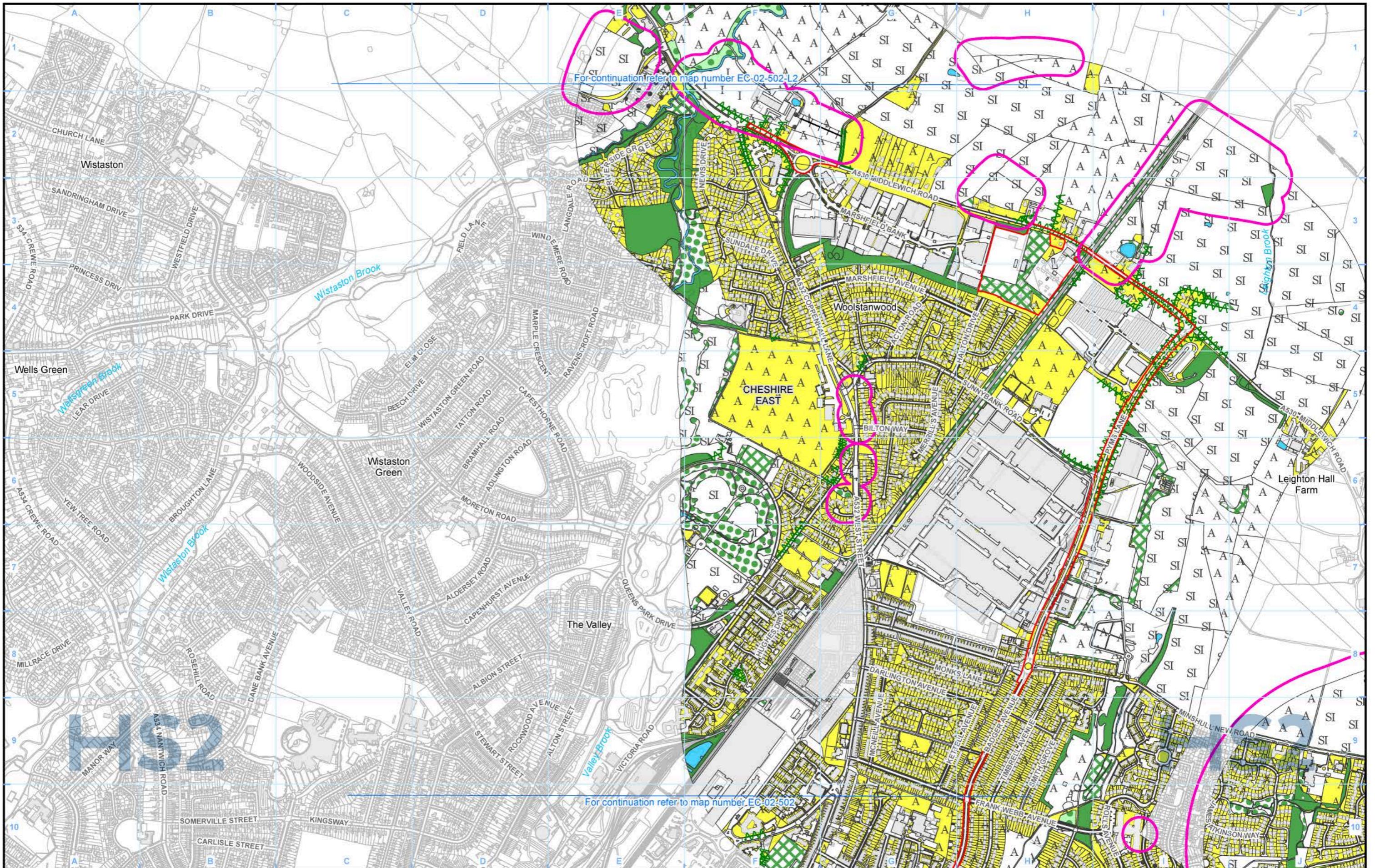
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Legend

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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Number

EC-02-502-L1

Map Name

**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**



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Community Area MA01:
Hough to Walley's Green

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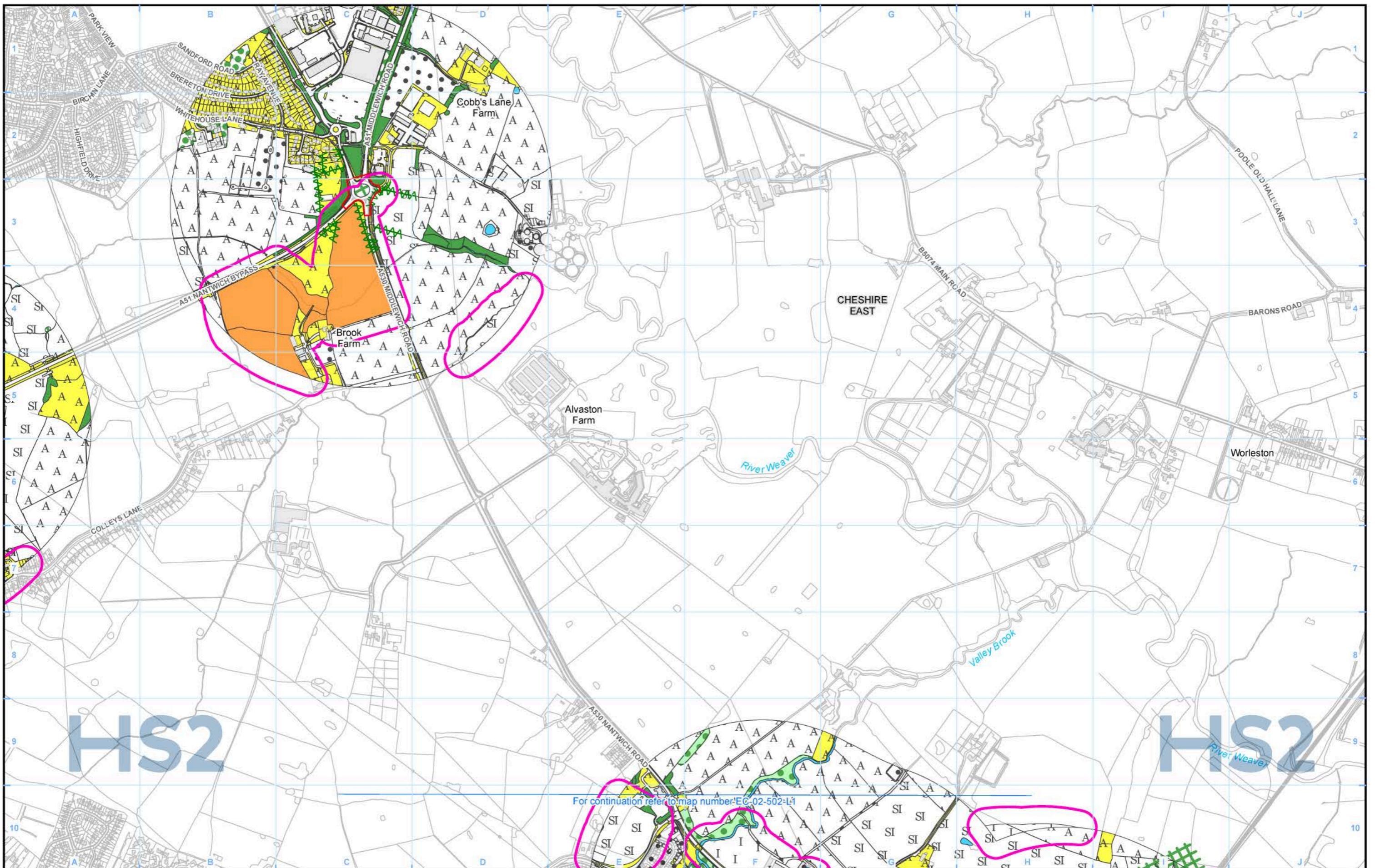
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Legend

- 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

For full legend please refer to EC-02 Legend page
■ Area contains new survey data

Map Number: **EC-02-502-L2**
Map Name: **Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA01:
Hough to Walley's Green



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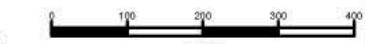
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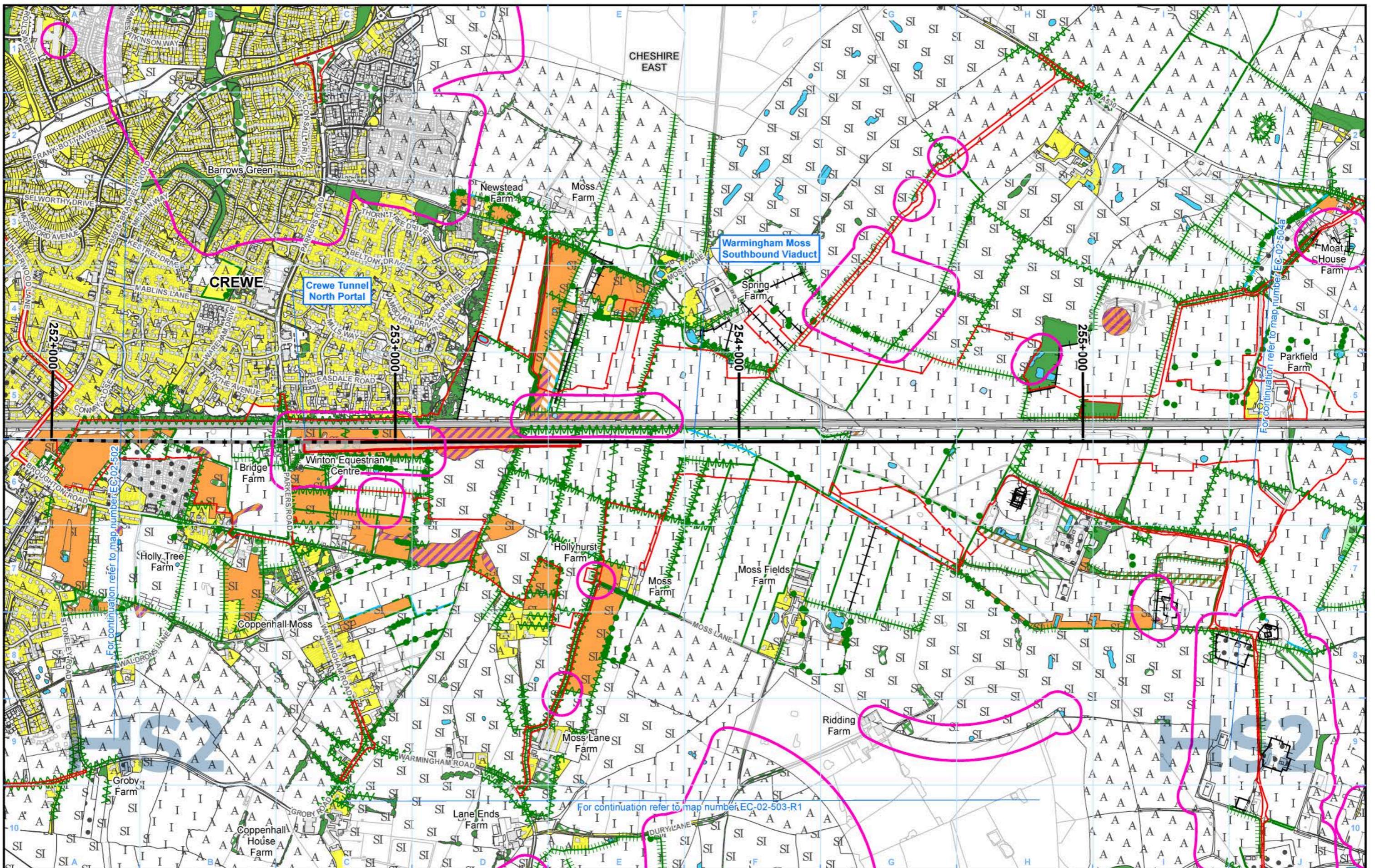
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Legend

- 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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

For continuation refer to map number EC-02-503-R1

Map Number
EC-02-503

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA01:
Hough to Walley's Green

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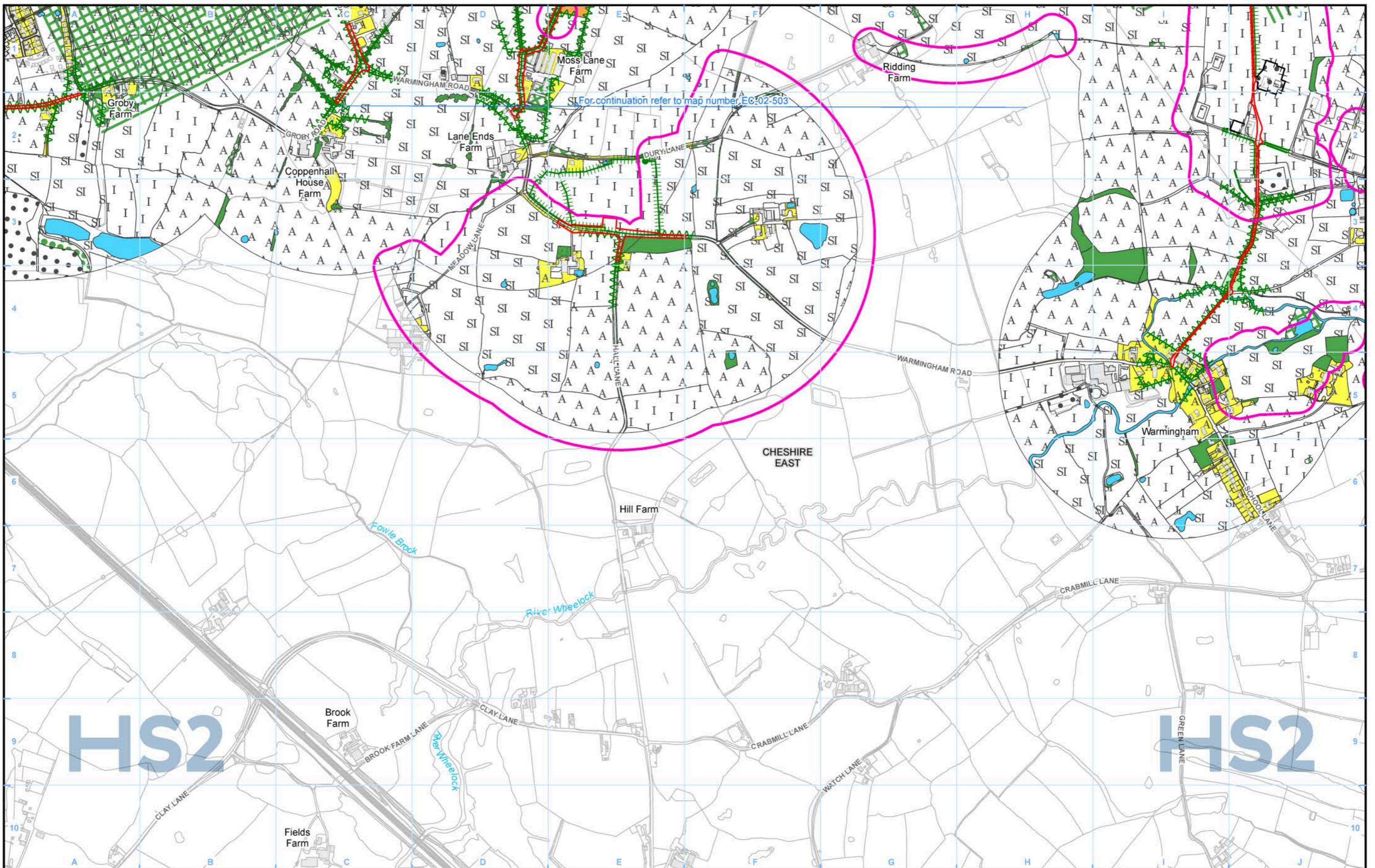
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Date: 29/03/23



Scale at A3: 1:10,000

0 100 200 300 400 Metres



Legend

- Route in tunnel
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- Community area boundary
- County boundary
- - District/Borough boundary

For full legend please refer to EC-02 Legend page

 Area contains new survey data

Map Number **EC-02-503-R1**

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA01:
Hough to Walley's Green

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Date: 29/03/23


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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Number

EC-02-503-R2

Map Name

**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

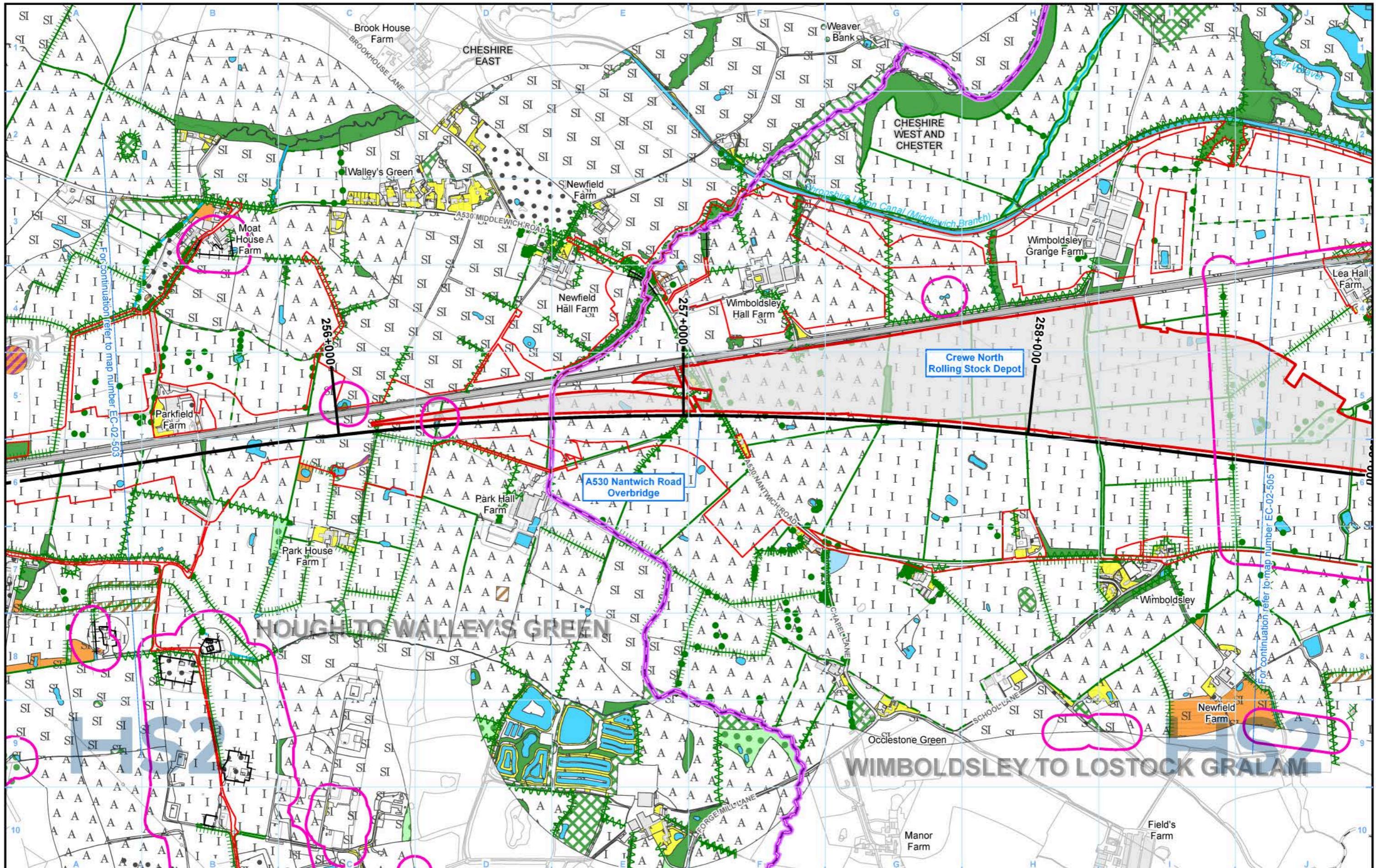
 Community Area MA01:
Hough to Walley's Green

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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

For full legend please refer to EC-02 Legend page

Area contains new survey data

Mac Number

EC-02-504a



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Phase 1 Habitat (1:10,000) SES2 and AP2 ES

Community Area MA01
Hough to Whalley's Creek

[View all posts by **John**](#) [View all posts in **Uncategorized**](#)

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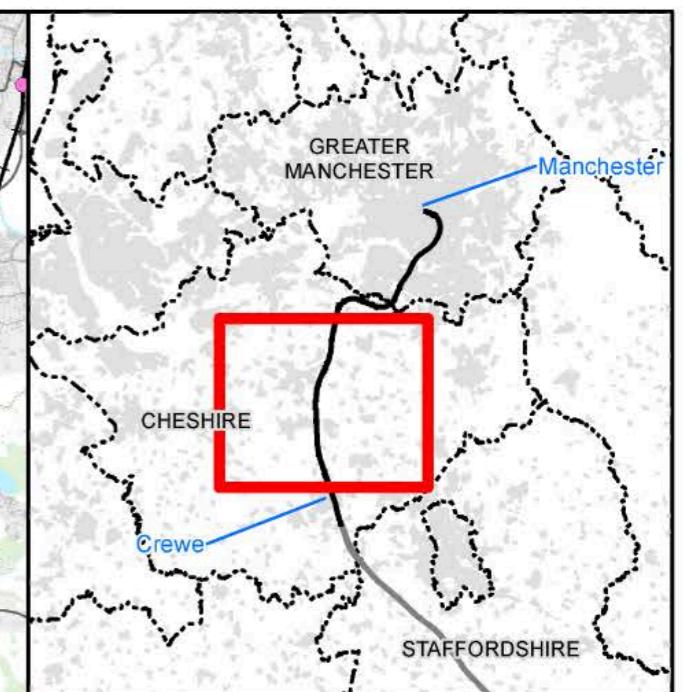
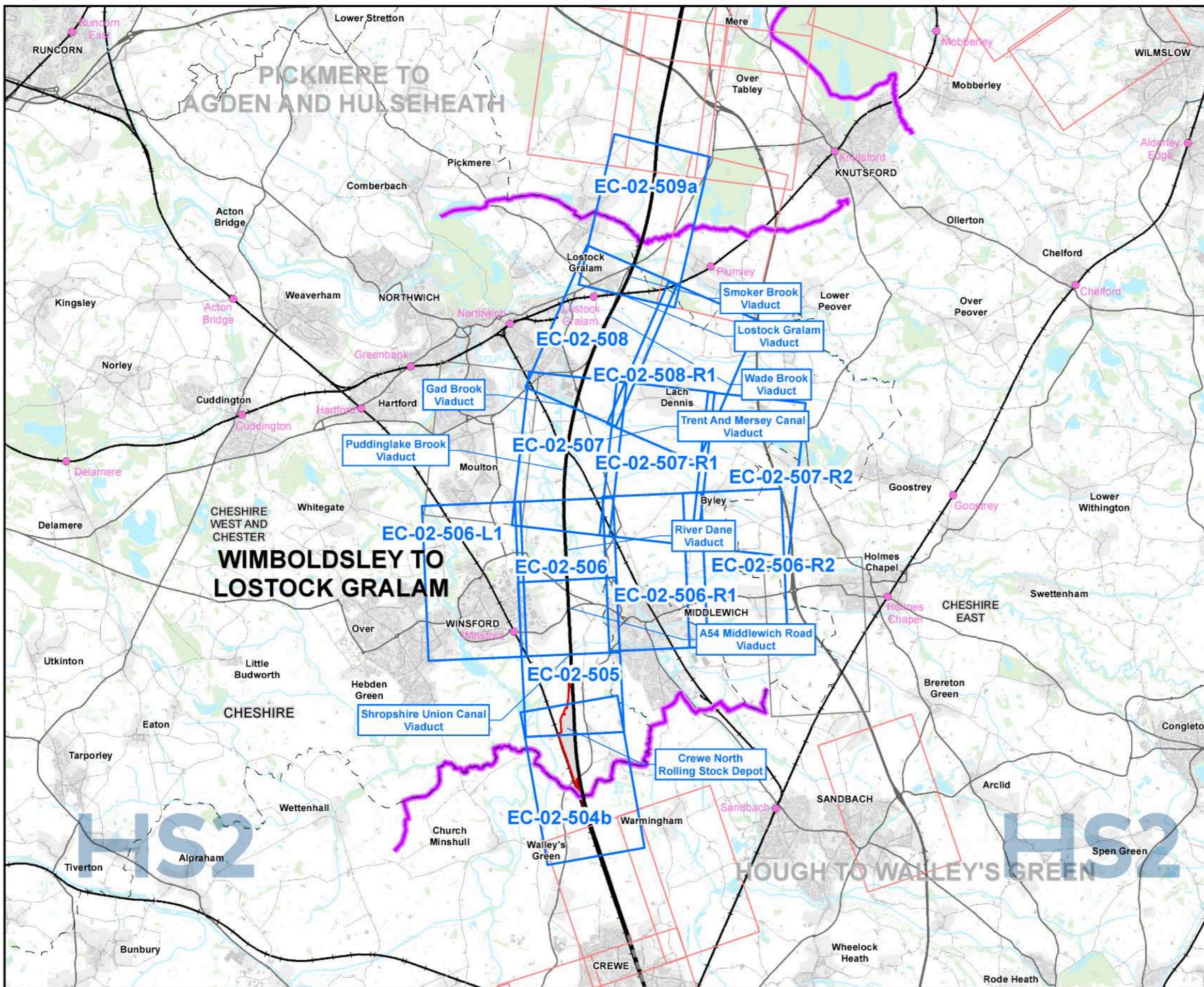
[View all posts by **John Doe**](#) [View all posts in **Category A**](#) [View all posts in **Category B**](#)

Scale at A3: 1:10 000

Scale at A.S. 1:10,000

tres

Dat.: 20/02/20



Map Series Information:

This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey, the information is based on available desk studies and interpretation of aerial photography.

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

Main Map Legend	
—	Route in tunnel
—	Route on surface
■	Depot, station, headhouse or portal building
—	Community area boundary
●	Existing railway station
—	County boundary
—	District/Borough boundary
■	Map sheets included in this community area with amendment
■	Map sheet included in this community with no amendment
■	Map sheets not included in this community area

Map Number: EC-02-INDEX-MA02

Map Name: Index Map of:
Phase 1 Habitat (1:10,000)
SES2 and AP2 ES

Community Area MA02:
Wimboldsley to Lostock Gralam

Phase 1 Habitat survey legend

Habitat Areas	
	Lichen/bryophyte heath
	Montane heath/dwarf herb
	Broadleaved woodland - plantation
	Dry heath/acid grassland
	Coniferous woodland - semi-natural
	Coniferous woodland - plantation
	Mixed woodland - semi-natural
	Mixed woodland - plantation
	Scrub - dense/continuous
	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Broadleaved woodland - recently felled
	Coniferous woodland - recently felled
	Mixed woodland - recently felled
	Acid grassland - unimproved
	Acid grassland - semi-improved
	Neutral grassland - unimproved
	Neutral grassland - semi-improved
	Calcareous grassland - unimproved
	Calcareous grassland - semi-improved
	Improved grassland
	Marsh/marshy grassland
	Poor semi-improved grassland
	Bracken - continuous
	Bracken - scattered
	Upland species-rich ledges
	Other tall herb and fern - ruderal
	Other tall herb and fern - non ruderal
	Dry dwarf shrub heath - acid
	Dry dwarf shrub heath - basic
	Wet dwarf shrub heath

	Inland cliff - acid/neutral
	Inland cliff - basic
	Scree - acid/neutral
	Scree - basic
	Limestone pavement
	Other exposure - acid/neutral
	Other exposure - basic
	Cave
	Quarry
	Spoil
	Mine
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

Linear Habitats	
	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Running water - eutrophic
	Running water - mesotrophic
	Running water - oligotrophic
	Running water - dystrophic
	Running water - marl
	Running water - brackish
	Inland cliff
	Scree
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

Point Habitats	
	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees

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Map Number EC-02 - Legend

Map Name EC-02 - Phase 1 Habitat Survey
Legend

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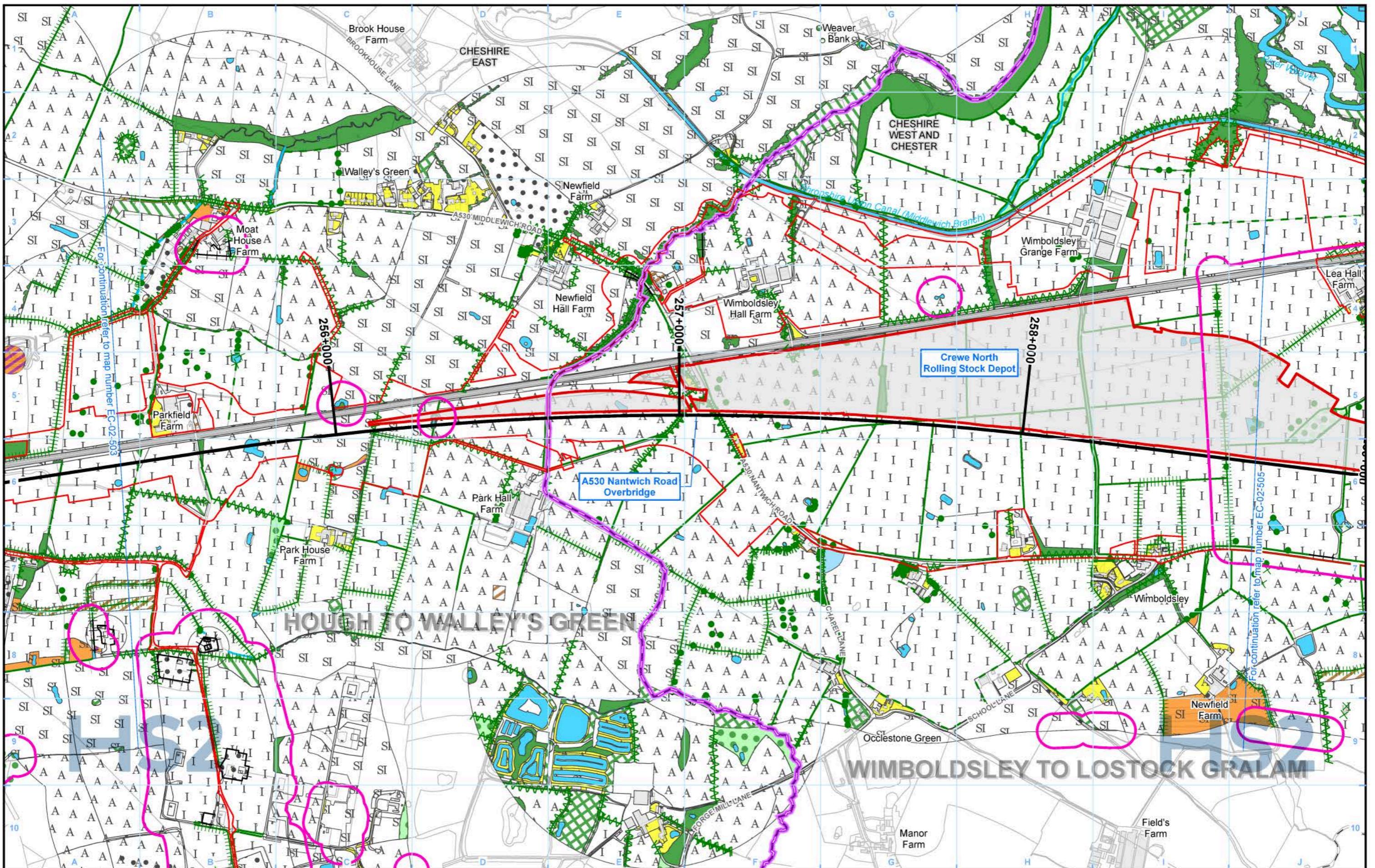
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Legend

- 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

For full legend please refer to EC-02 Legend page

[Pink box] Area contains new survey data

Map Number: EC-02-504b
 Map Name: Phase 1 Habitat (1:10,000)
 SES2 and AP2 ES

Community Area MA02:
 Wimboldsley to Lostock Gralam



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Scale at A3: 1:10,000

0 100 200 300 400 Metres

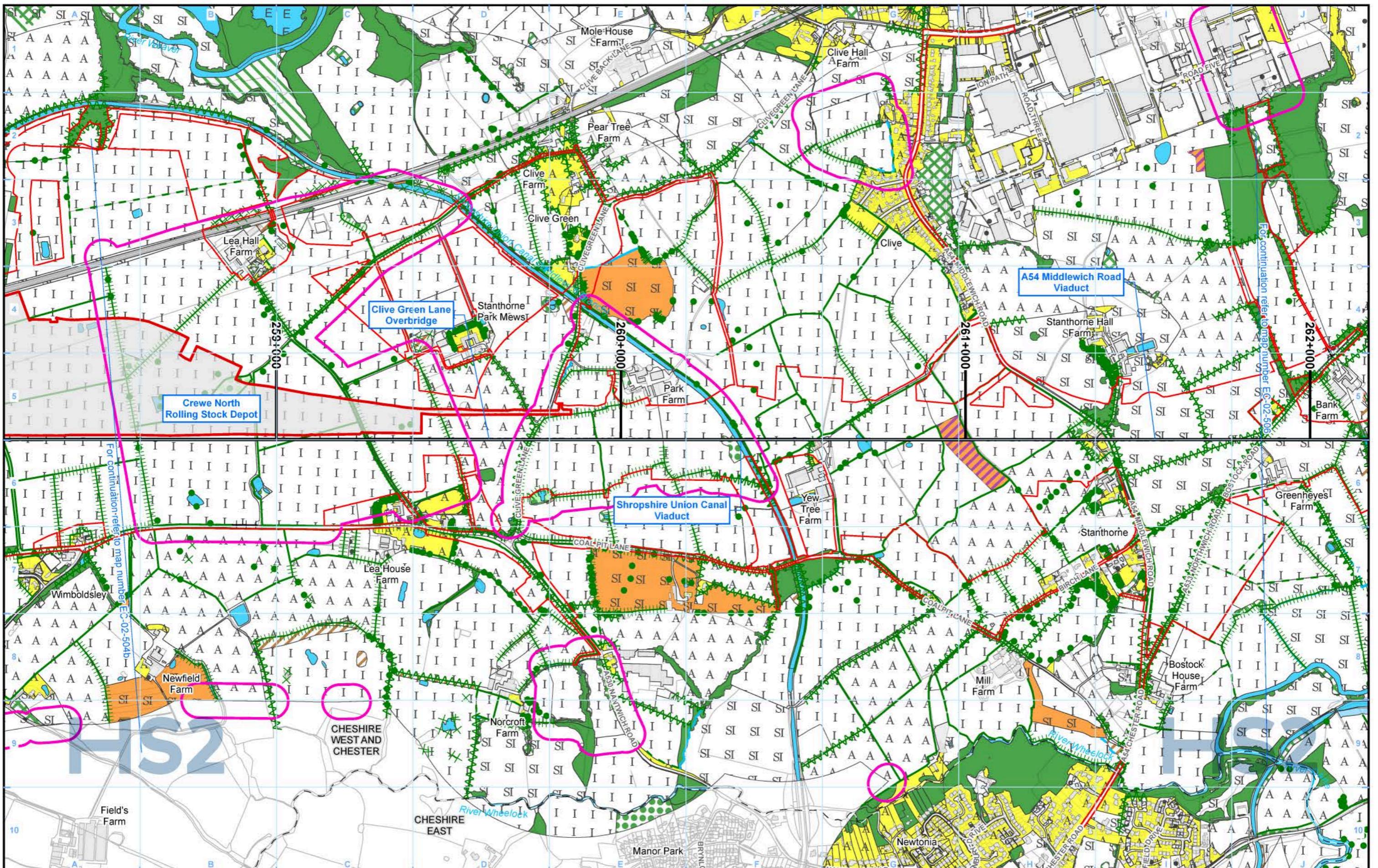
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Area contains new survey data
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 Legend page

Area contains new survey data

Map Number	EC-02-505
Map Name	Phase 1 Habitat (1:10,000) SES2 and AP2 ES
Community Area MA02: Wimboldsley to Lostock Graml	
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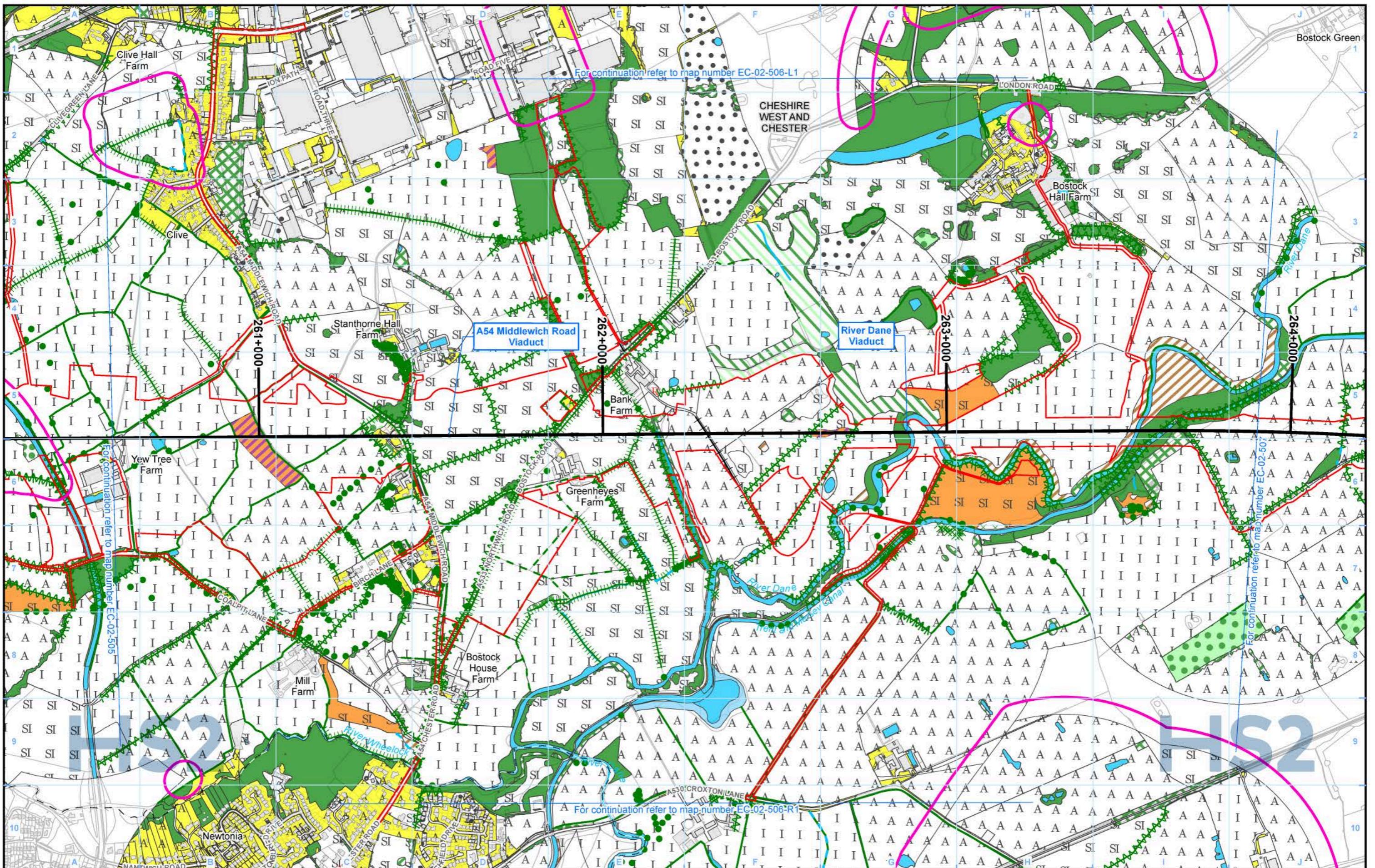
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Metres

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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Area contains new survey data
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 Legend page

Map Number
EC-02-506

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA02:
Wimboldsley to Lostock Graml

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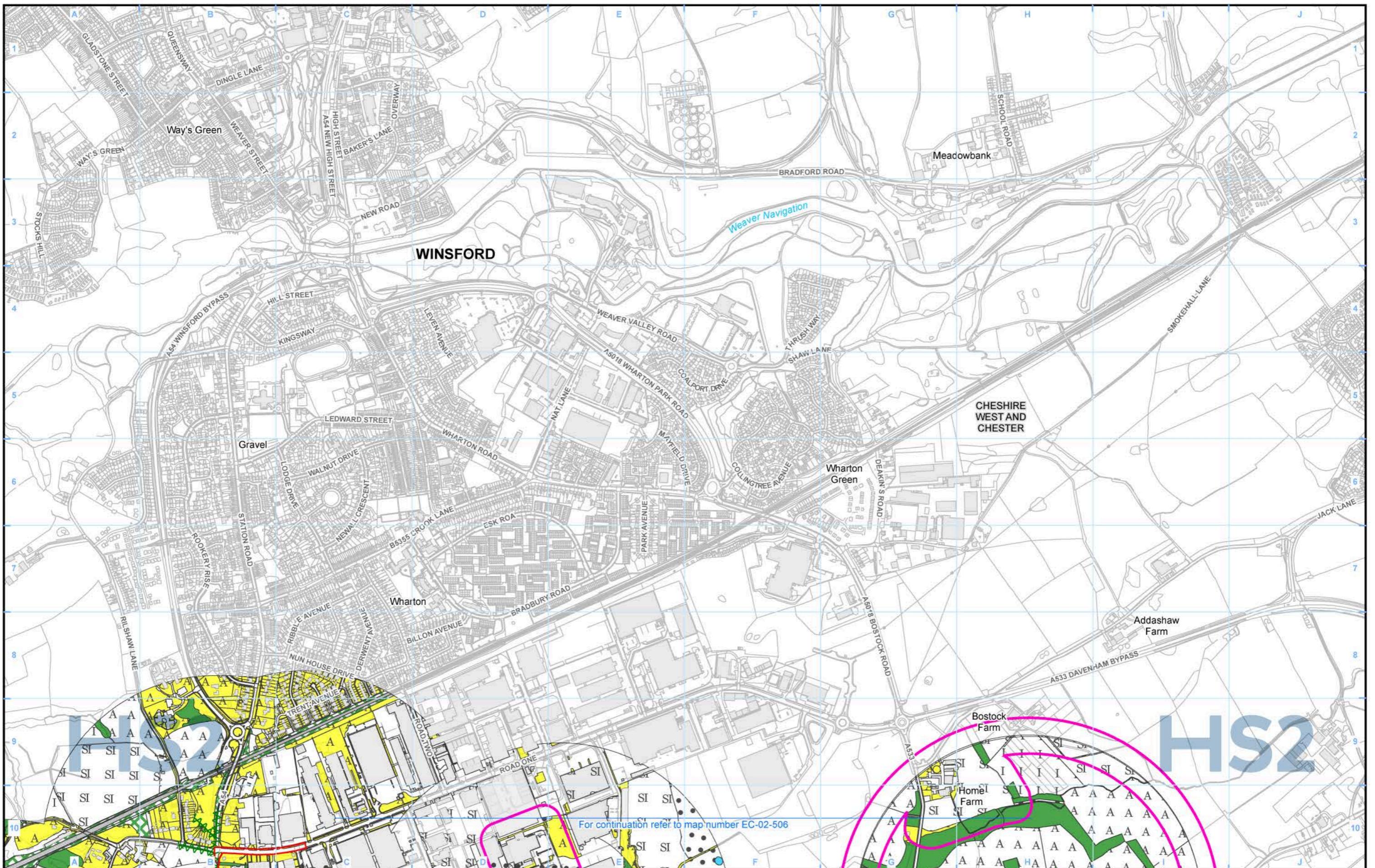
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Date: 29/03/23

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

For full legend please refer to EC-02 Legend page

 Area contains new survey data

Map Number **EC-02-506-L1**

**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA02:
Wimboldsley to Lostock Graml



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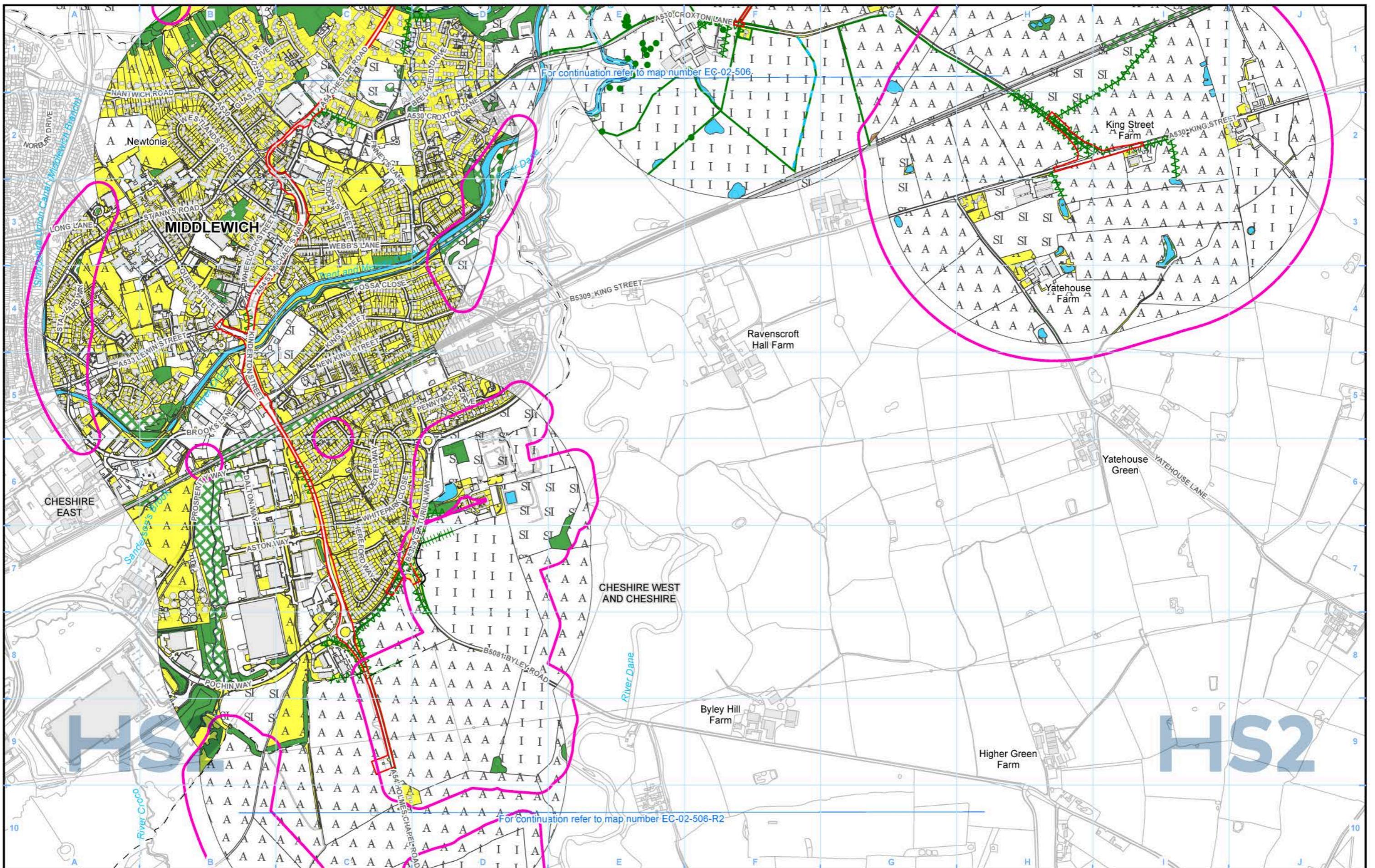
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Date: 29/03/23

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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Number **EC-02-506-R1**

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA02:
Wimboldsley to Lostock Graml



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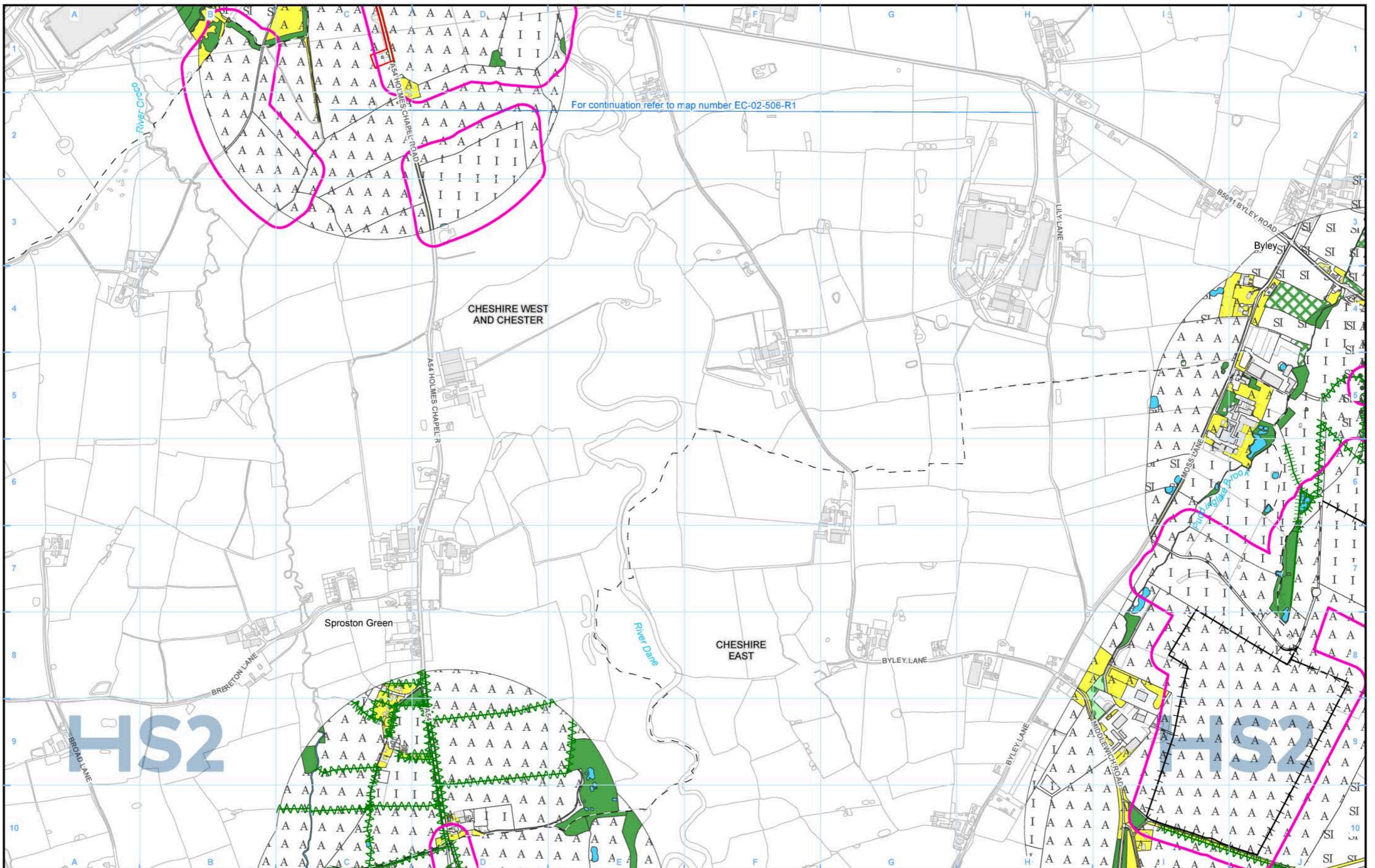
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Date: 29/03/23

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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

For full legend please refer to EC-02 Legend page
■ Area contains new survey data

Map Number **EC-02-506-R2**

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA02:
Wimboldsley to Lostock Gramam

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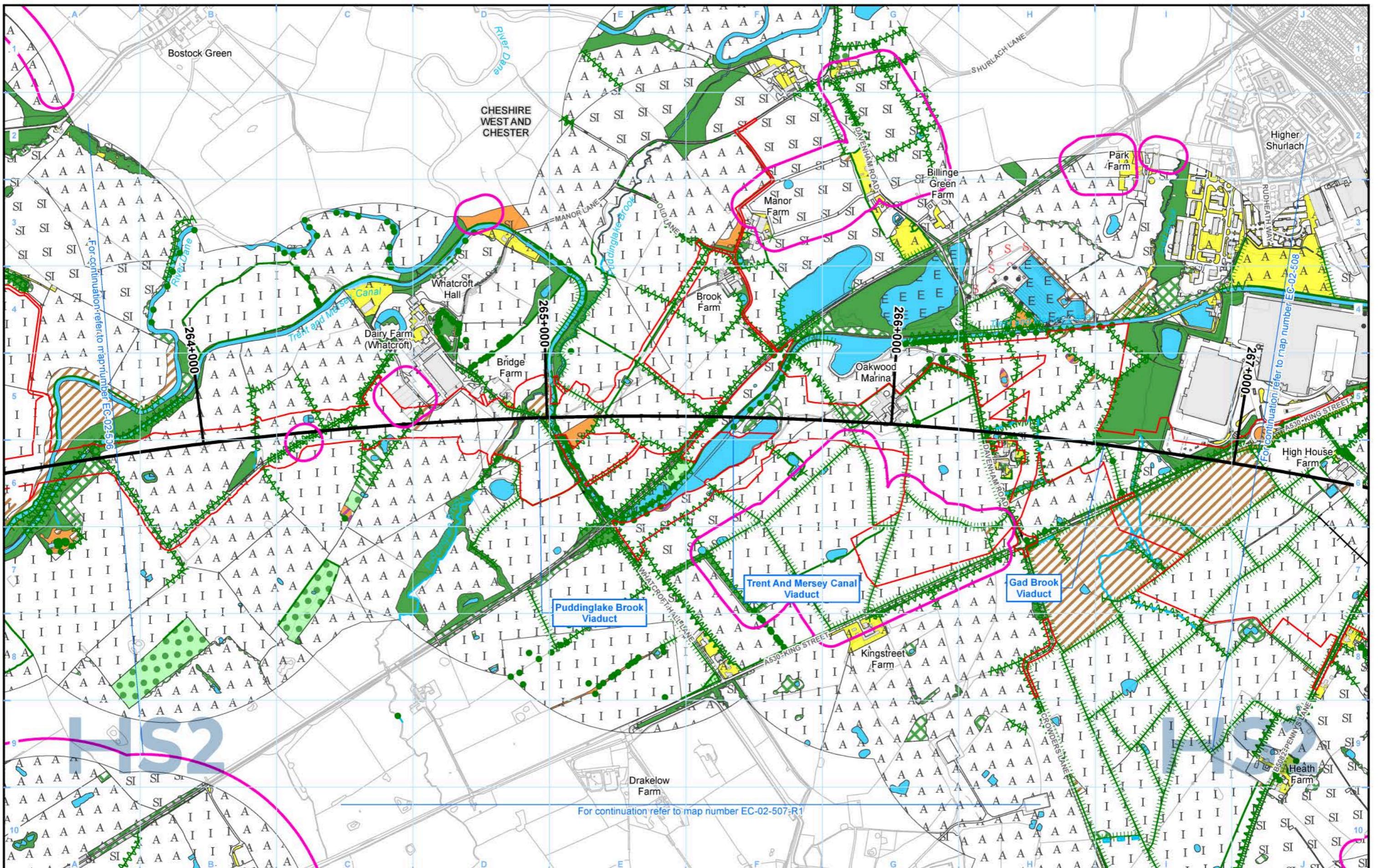
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Date: 29/03/23

Scale at A3: 1:10,000





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

For full legend please refer to EC-02 Legend page

 Area contains new survey data

Map Number
EC-02-507

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA02:
Wimboldsley to Lostock Gramlam

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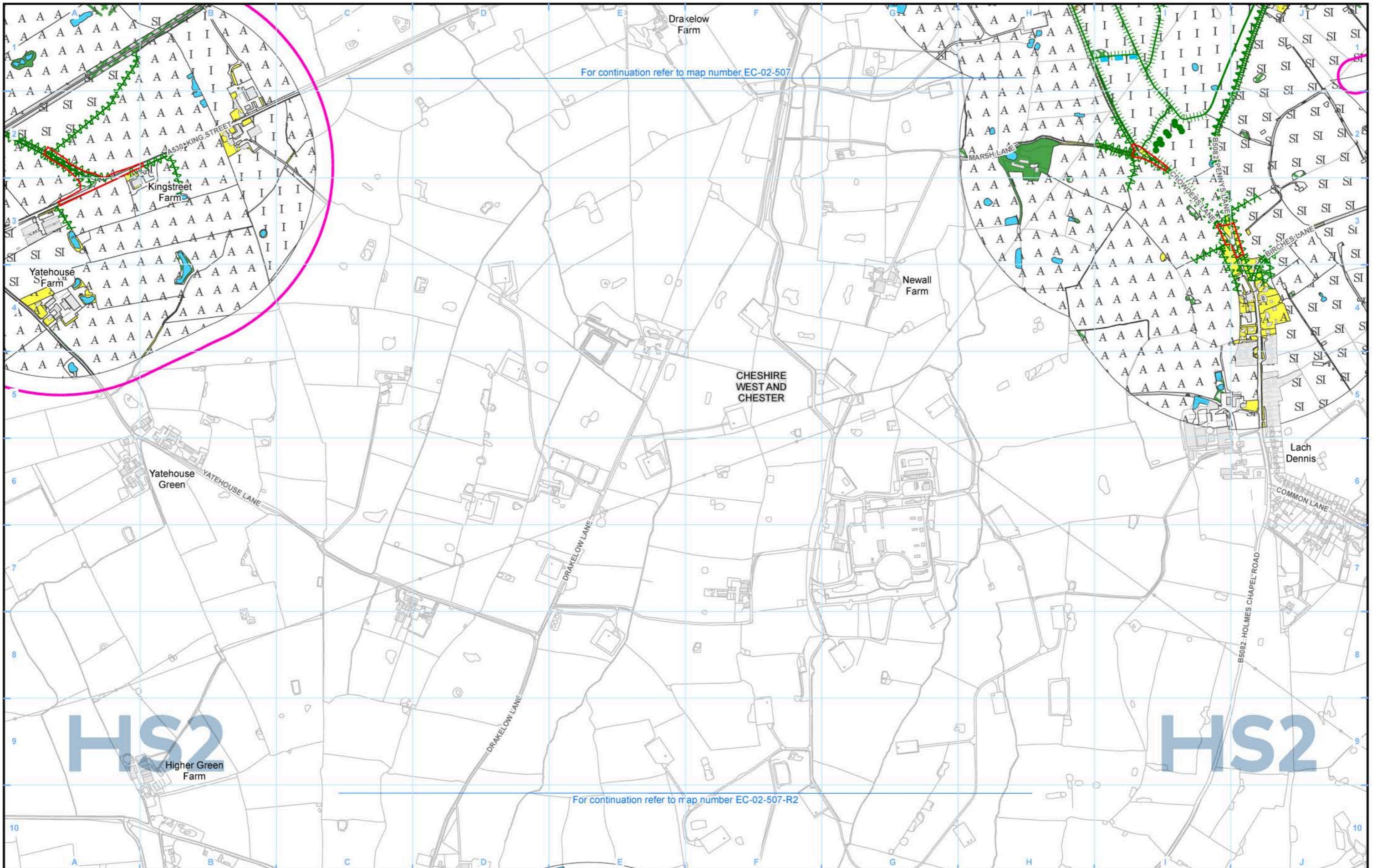
Doc Number: 2PT27-MWJ-EV-MAP-M000-000777-P01



Scale at A3: 1:10,000

0 100 200 300 400
Metres

Date: 29/03/23



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

For full legend please refer to EC-02 Legend page
■ Area contains new survey data

Map Number **EC-02-507-R1**

Map Name **Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA02:
Wimboldsley to Lostock Gramam



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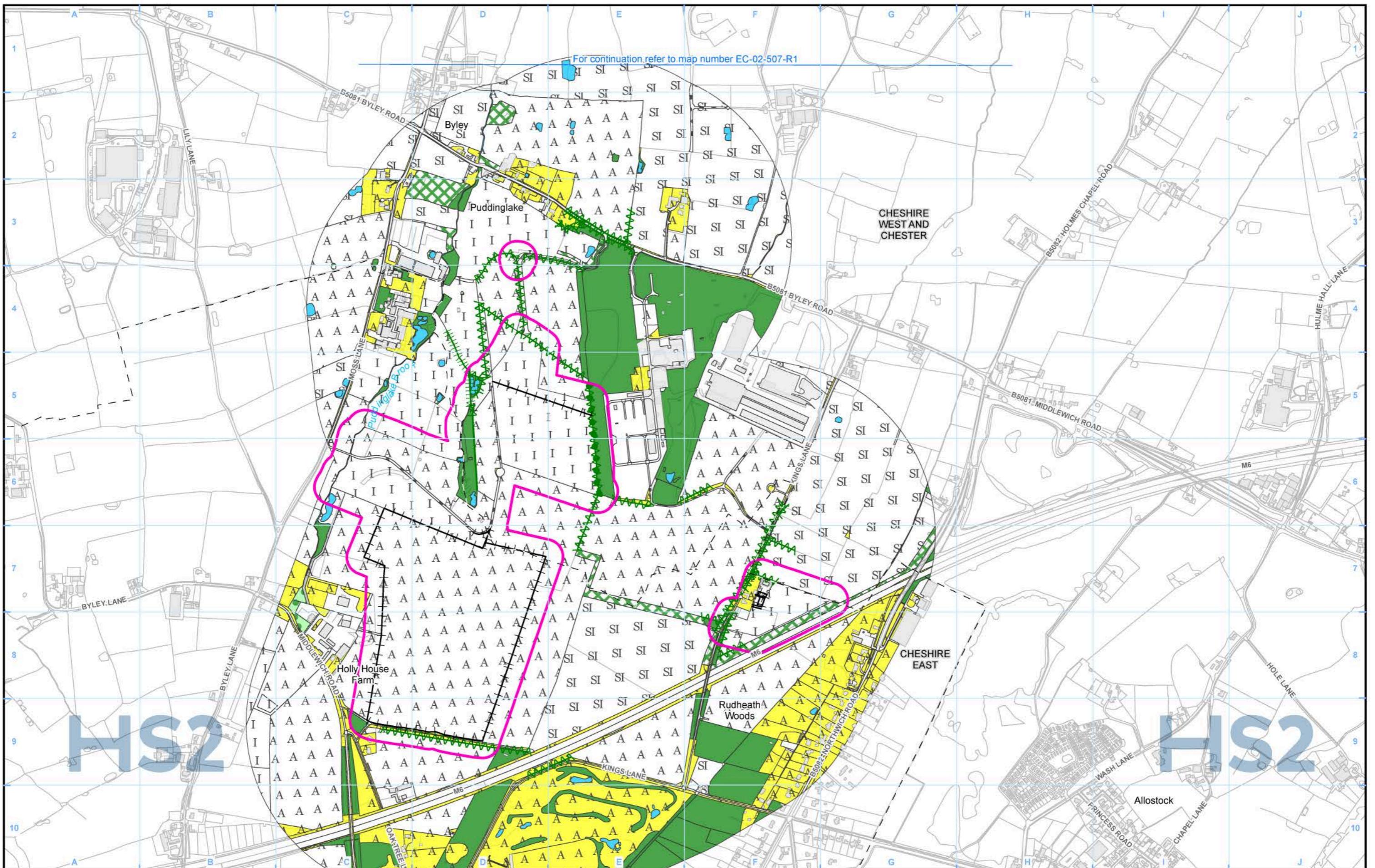
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Scale at A3: 1:10,000

0 100 200 300 400
Metres

Date: 29/03/23



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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Number

EC-02-507-R2

Map Name

**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA02:
Wimboldsley to Lostock Gramam



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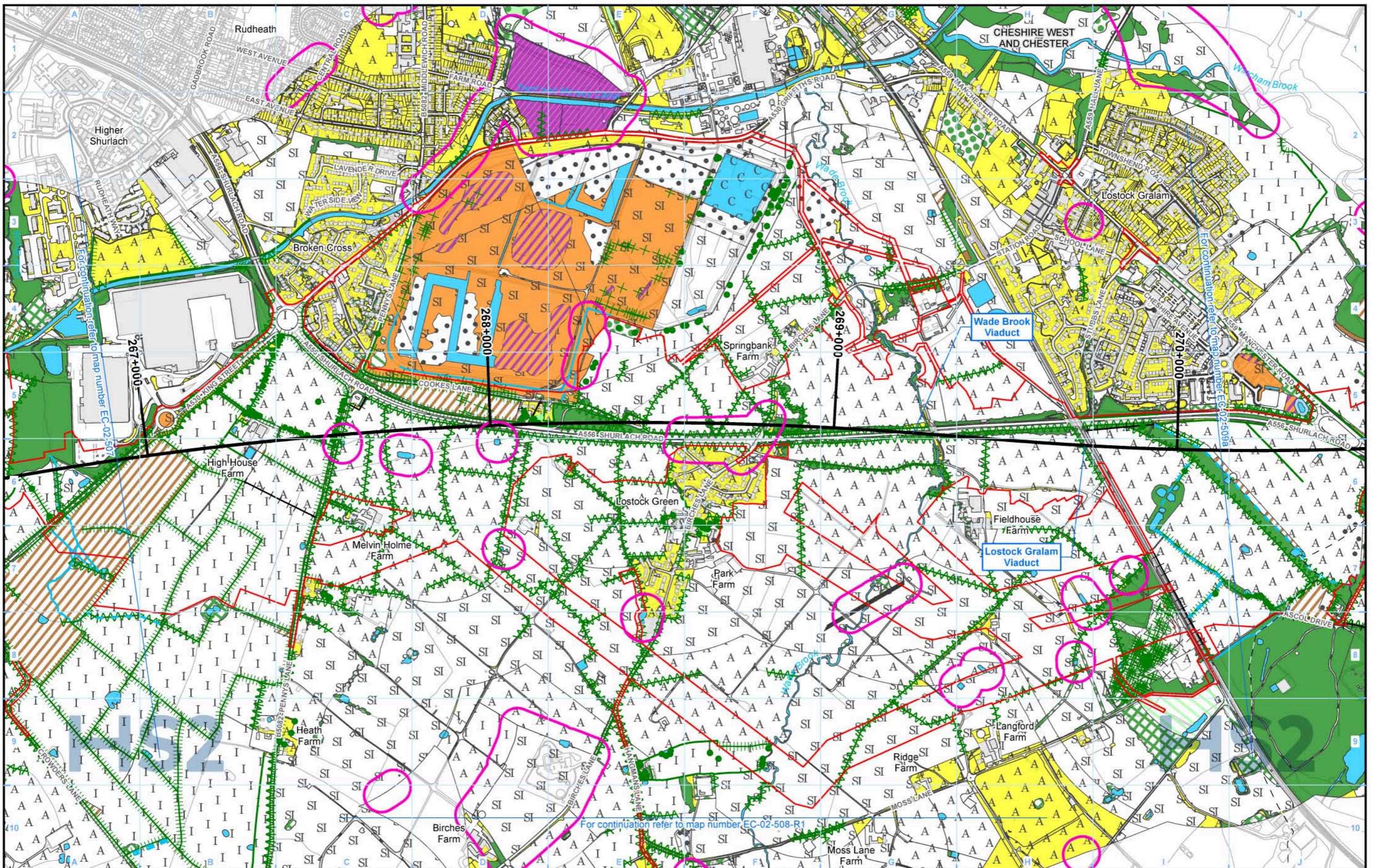
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Scale at A3: 1:10,000



Date: 29/03/23

For continuation, refer to map number EC-02-507-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

For full legend please refer to EC-02 Legend page
■ Area contains new survey data

Map Number
EC-02-508

Map Name
**Phase 1 Habitat (1:10,000)
 SES2 and AP2 ES**

Community Area MA02:
 Wimboldsley to Lostock Gralam



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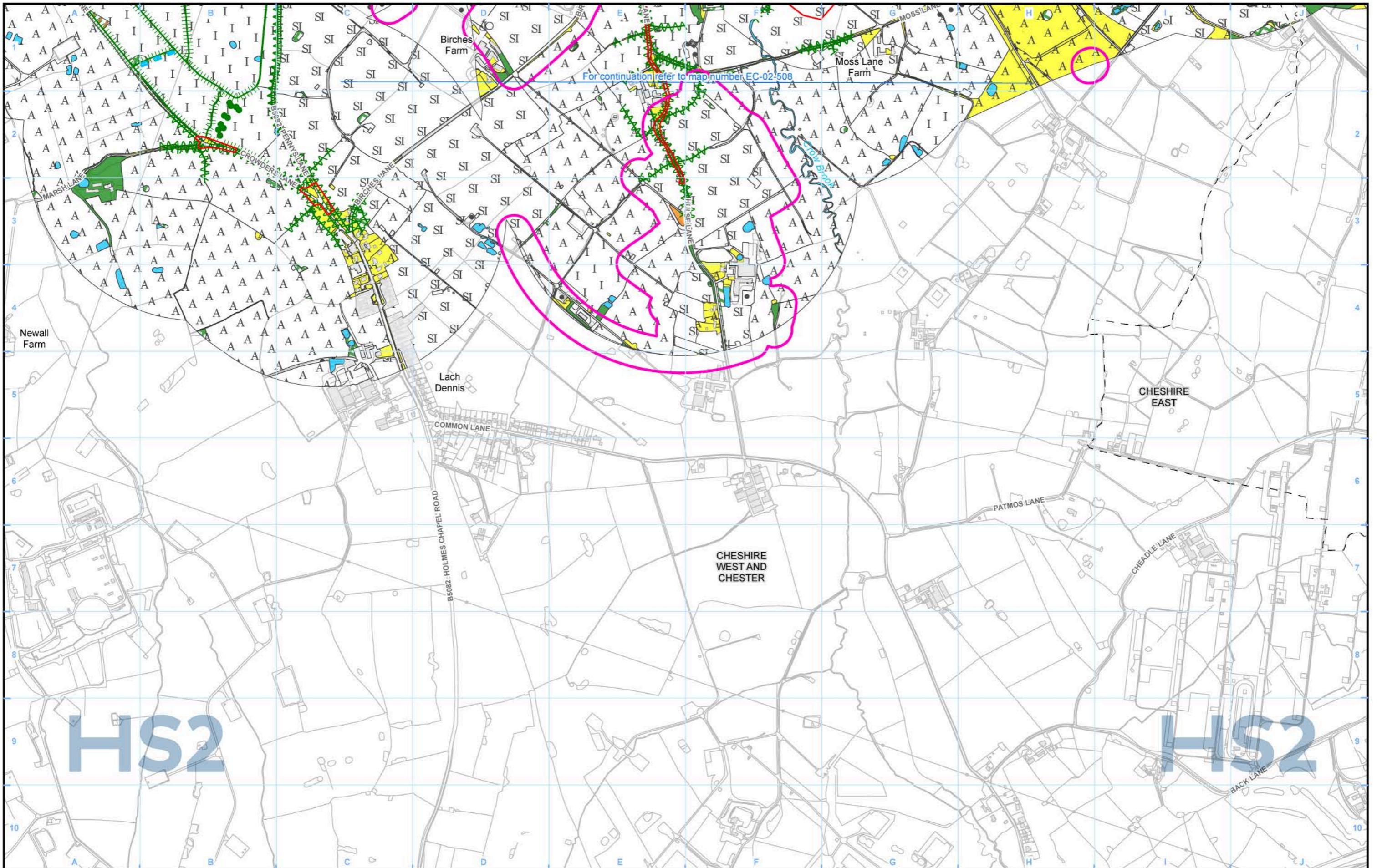
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 0 100 200 300 400 Metres

Doc Number: 2PT27-MWJ-EV-MAP-M000-000778-P01

Date: 29/03/23


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

For full legend please refer to EC-02 Legend page

 Area contains new survey data

Map Number
EC-02-508-R1
Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**
**Community Area MA02:
Wimboldsley to Lostock Graml**
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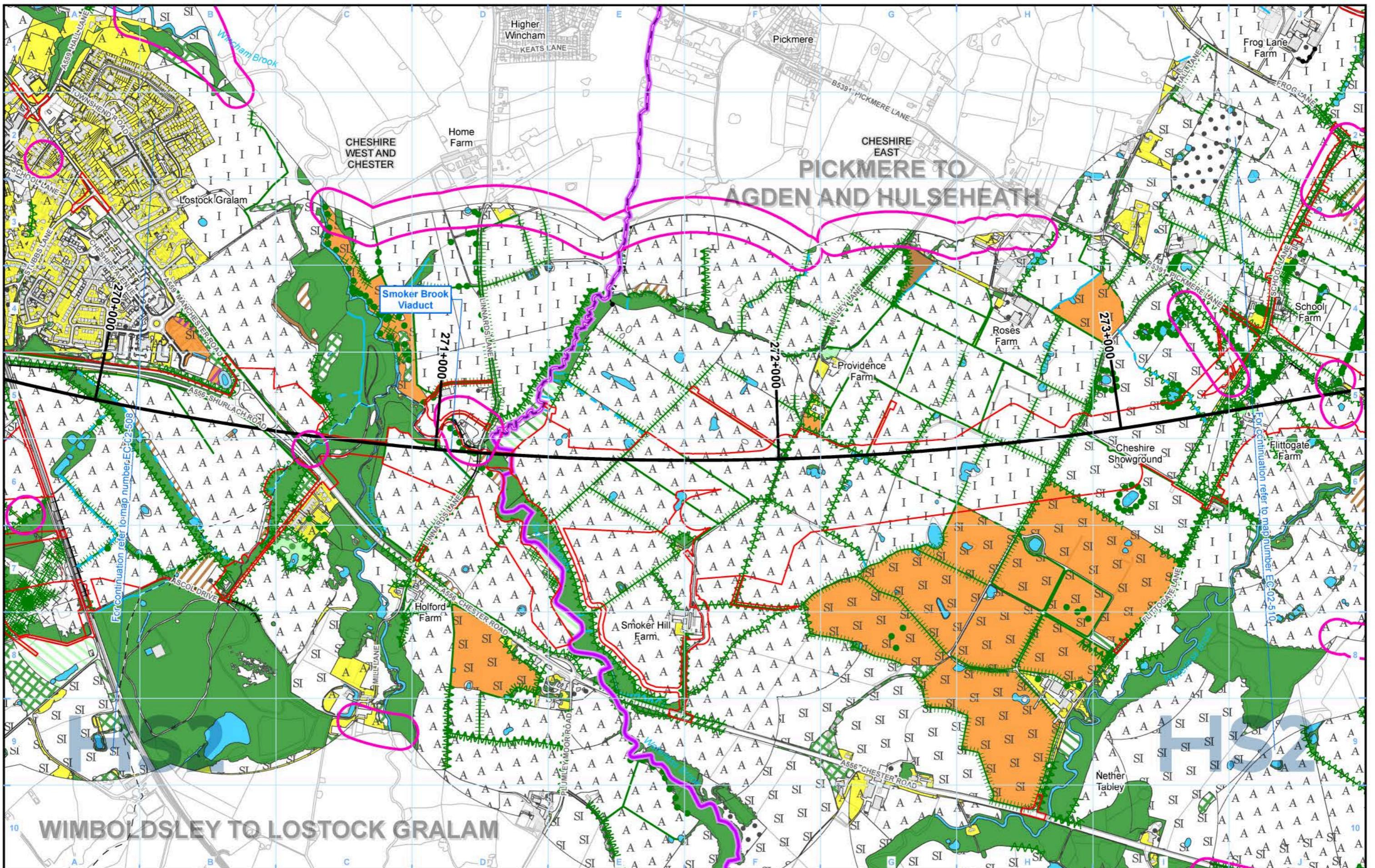
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Scale at A3: 1:10,000



Date: 29/03/23



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

For full legend please refer to EC-02 Legend page
Area contains new survey data

Map Number	EC-02-509a
Map Name	Phase 1 Habitat (1:10,000) SES2 and AP2 ES
Community Area MA02: Wimboldsley to Lostock Gralam	
Doc Number:	2PT27-MWJ-EV-MAP-M000-000779-P01



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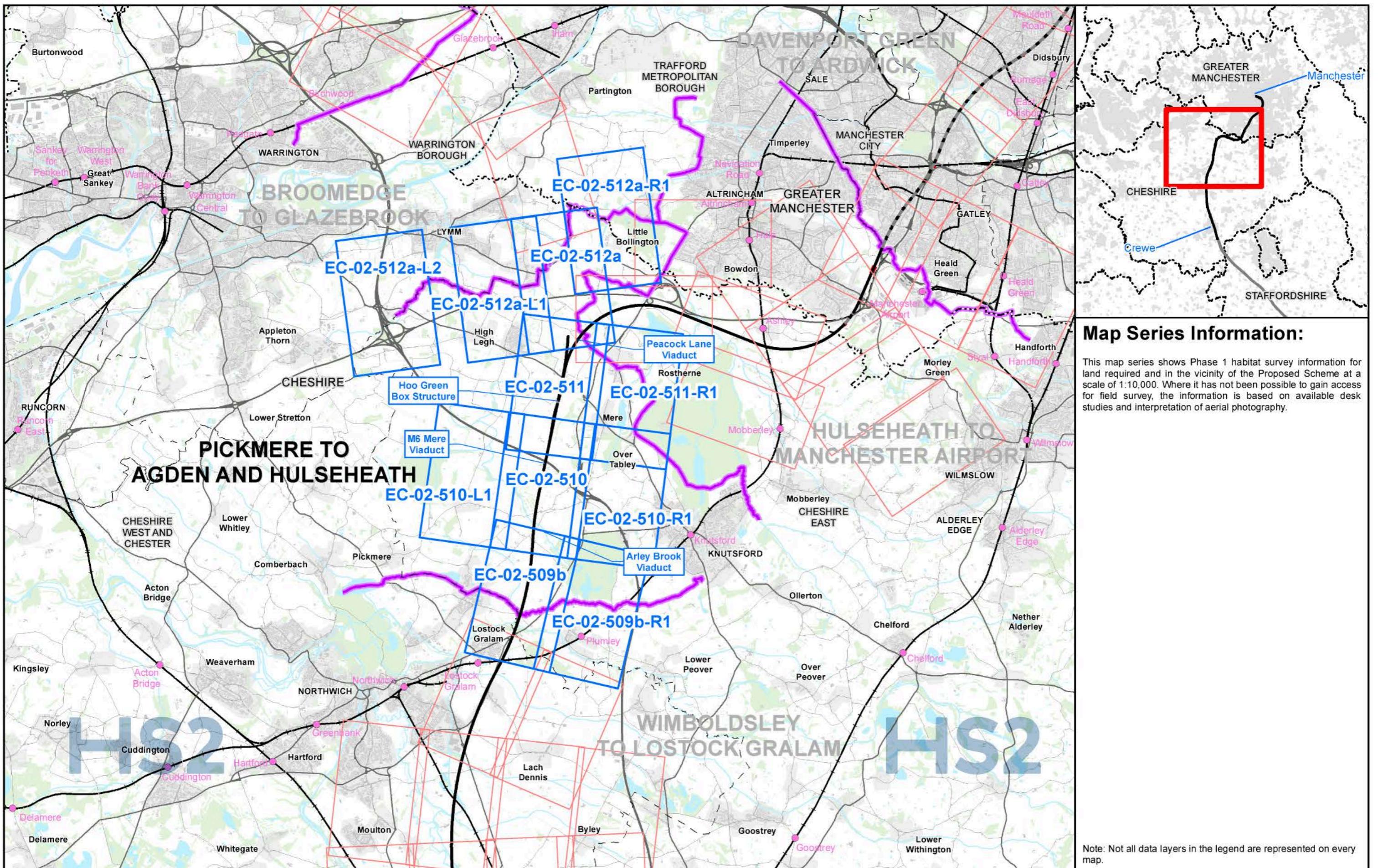


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Scale at A3: 1:10,000
0 100 200 300 400 Metres

Date: 29/03/23



Main Map Legend	
Route in tunnel	Map sheets included in this community area with amendment
Route on surface	Map sheet included in this community with no amendment
Depot, station, headhouse or portal building	Map sheets not included in this community area
Existing railway station	
County boundary	
District/Borough boundary	

Map Number	EC-02-INDEX-MA03
Map Name	Index Map of: Phase 1 Habitat (1:10,000) SES2 and AP2 ES
Community Area MA03: Pickmere to Agden and Hulseheath	

Phase 1 Habitat survey legend

Habitat Areas	
	Lichen/bryophyte heath
	Montane heath/dwarf herb
	Broadleaved woodland - plantation
	Dry heath/acid grassland
	Coniferous woodland - semi-natural
	Coniferous woodland - plantation
	Mixed woodland - semi-natural
	Mixed woodland - plantation
	Scrub - dense/continuous
	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Broadleaved woodland - recently felled
	Coniferous woodland - recently felled
	Mixed woodland - recently felled
	Acid grassland - unimproved
	Acid grassland - semi-improved
	Neutral grassland - unimproved
	Neutral grassland - semi-improved
	Calcareous grassland - unimproved
	Calcareous grassland - semi-improved
	Improved grassland
	Marsh/marshy grassland
	Poor semi-improved grassland
	Bracken - continuous
	Bracken - scattered
	Upland species-rich ledges
	Other tall herb and fern - ruderal
	Other tall herb and fern - non ruderal
	Dry dwarf shrub heath - acid
	Dry dwarf shrub heath - basic
	Wet dwarf shrub heath

	Inland cliff - acid/neutral
	Inland cliff - basic
	Scree - acid/neutral
	Scree - basic
	Limestone pavement
	Other exposure - acid/neutral
	Other exposure - basic
	Cave
	Quarry
	Spoil
	Mine
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

Linear Habitats	
	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Running water - eutrophic
	Running water - mesotrophic
	Running water - oligotrophic
	Running water - dystrophic
	Running water - marl
	Running water - brackish
	Inland cliff
	Scree
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

Point Habitats	
	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees

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Map Number EC-02 - Legend

Map Name EC-02 - Phase 1 Habitat Survey
Legend

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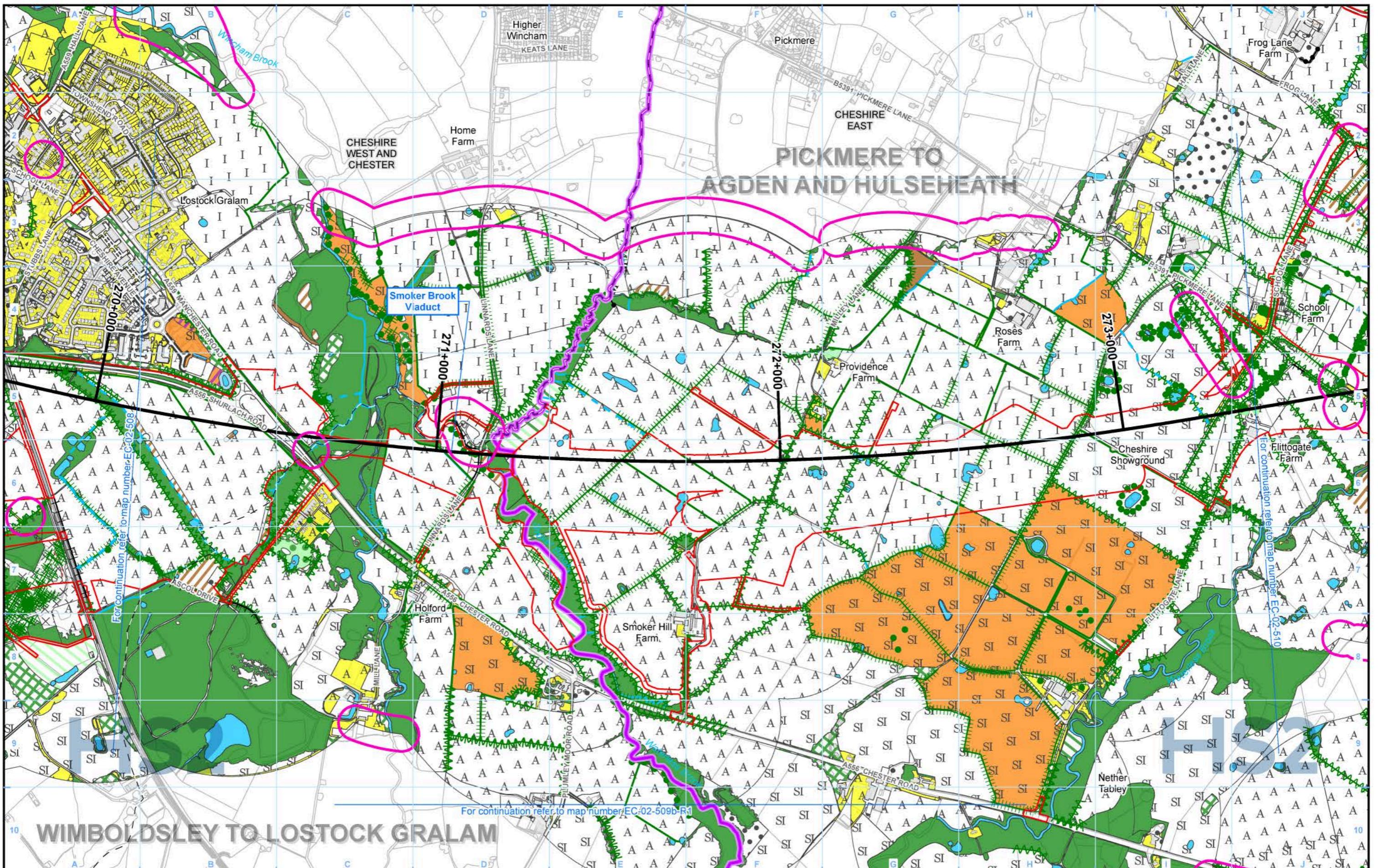
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Date: 29/03/23



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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Number	Map Name
EC-02-509b	Phase 1 Habitat (1:10,000) SES2 and AP2 ES
	Community Area MA03: Pickmere to Agden and Hulseheath
	Doc Number: 2PT27-MWJ-EV-MAP-M000-000780-P01



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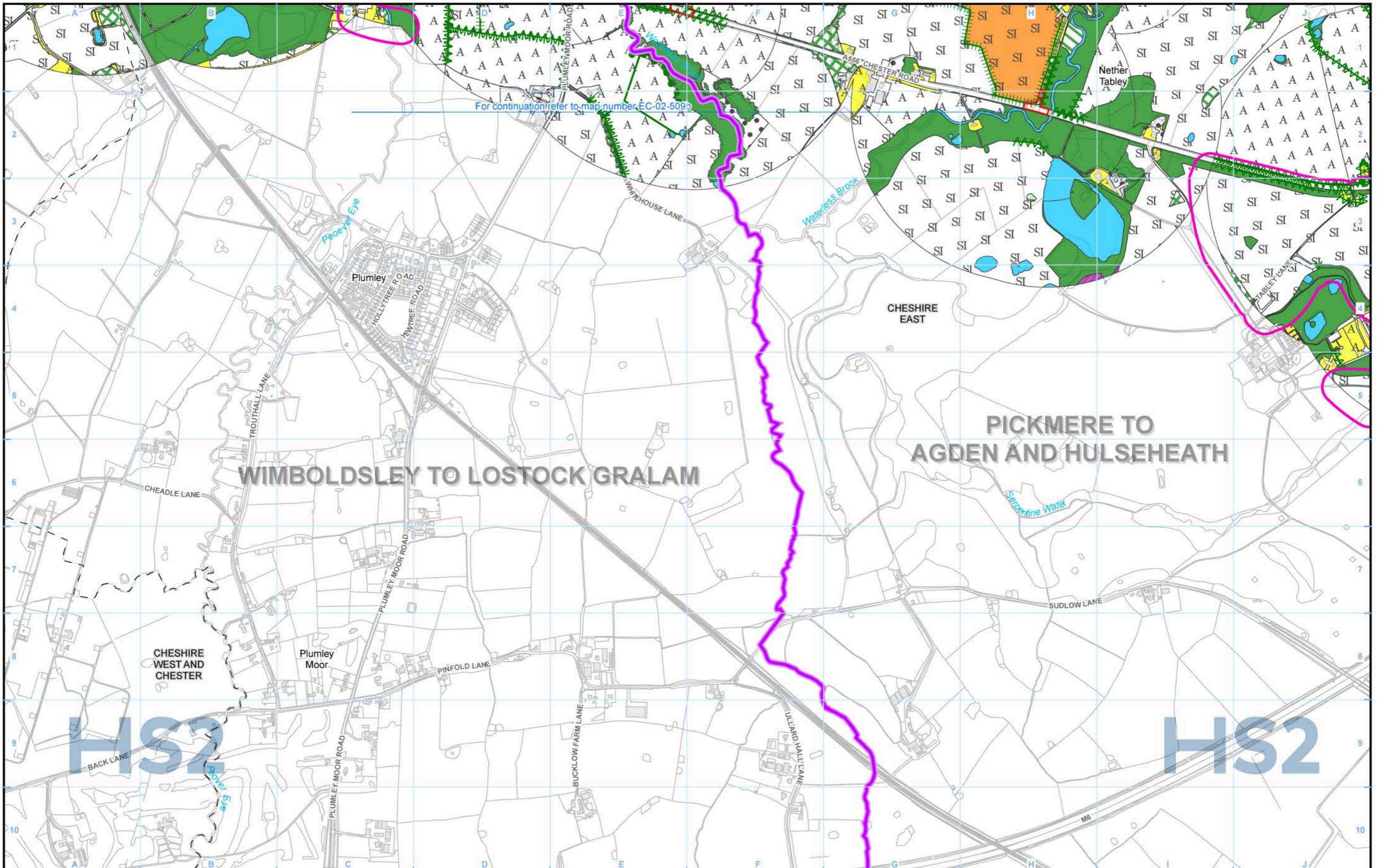
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Scale at A3: 1:10,000

Date: 29/03/23



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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Number
EC-02-509b-R1

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA03:
Pickmere to Agden and Hulseheath

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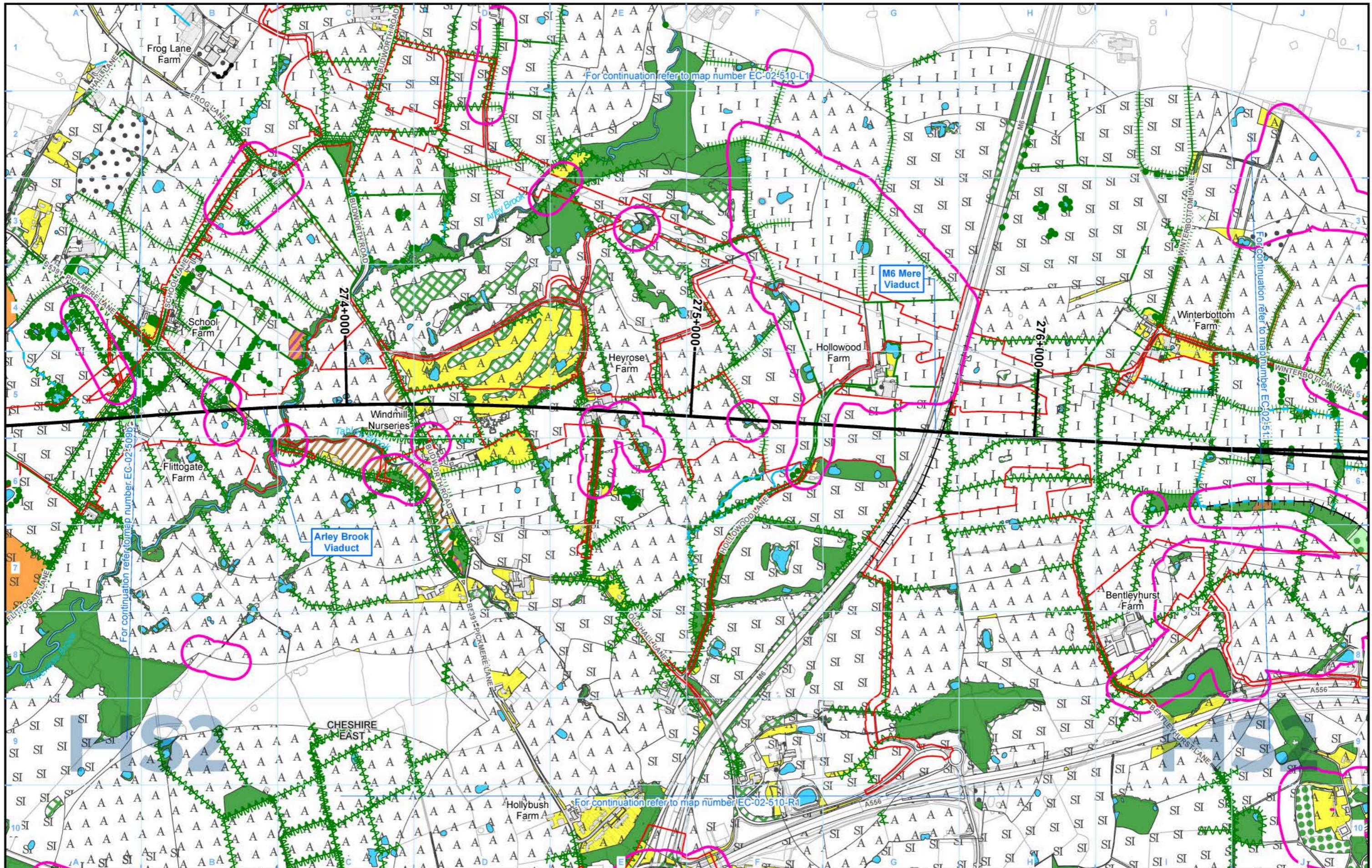
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Doc Number: 2PT27-MWJ-EV-MAP-M000-002821-P01



Scale at A3: 1:10,000

Date: 29/03/23



Legend

- The legend includes the following entries:

 - Route in tunnel (dark grey line)
 - Route on surface (black line)
 - Depot, station, headhouse or portal building (red box)
 - Land potentially required during construction (red box)
 - Community area boundary (purple line)
 - County boundary (dashed black line)
 - District/Borough boundary (thin black line)

For full legend please refer to EC-02 Legend page

Area contains new survey data

Map N

EC-02-51

Map Name
Phase 1 Habitat (1:10,000)
SES2 and AP2 ES

Community Area MA03:
Pickmere to Adden and Hulsehe

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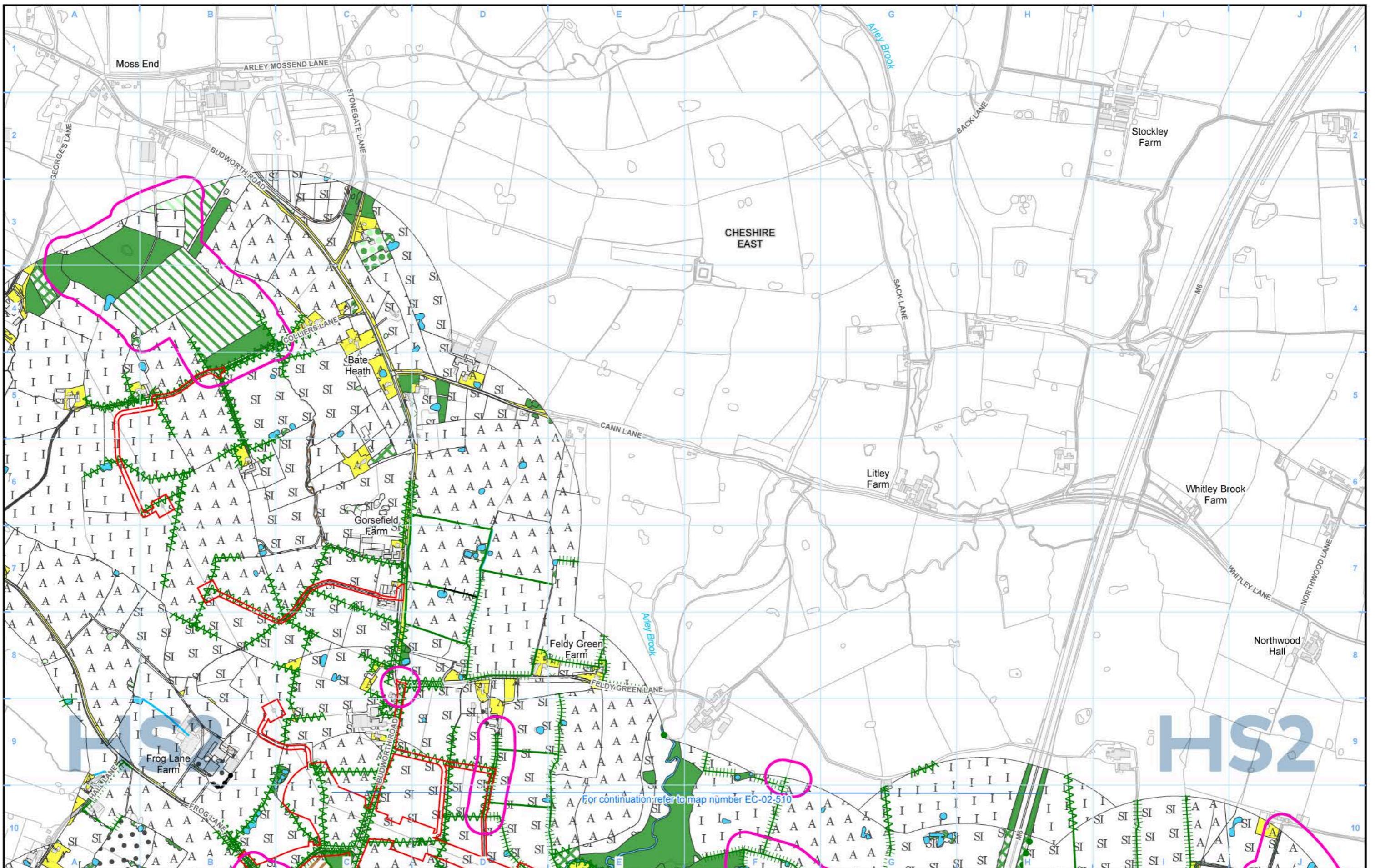
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Scale at A3: 1:10 000



Scale at A3: 1:10 000

Date: 29/03/23



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

For full legend please refer to EC-02 Legend page
 Area contains new survey data

Map Number
EC-02-510-L1

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA03:
Pickmere to Agden and Hulseheath

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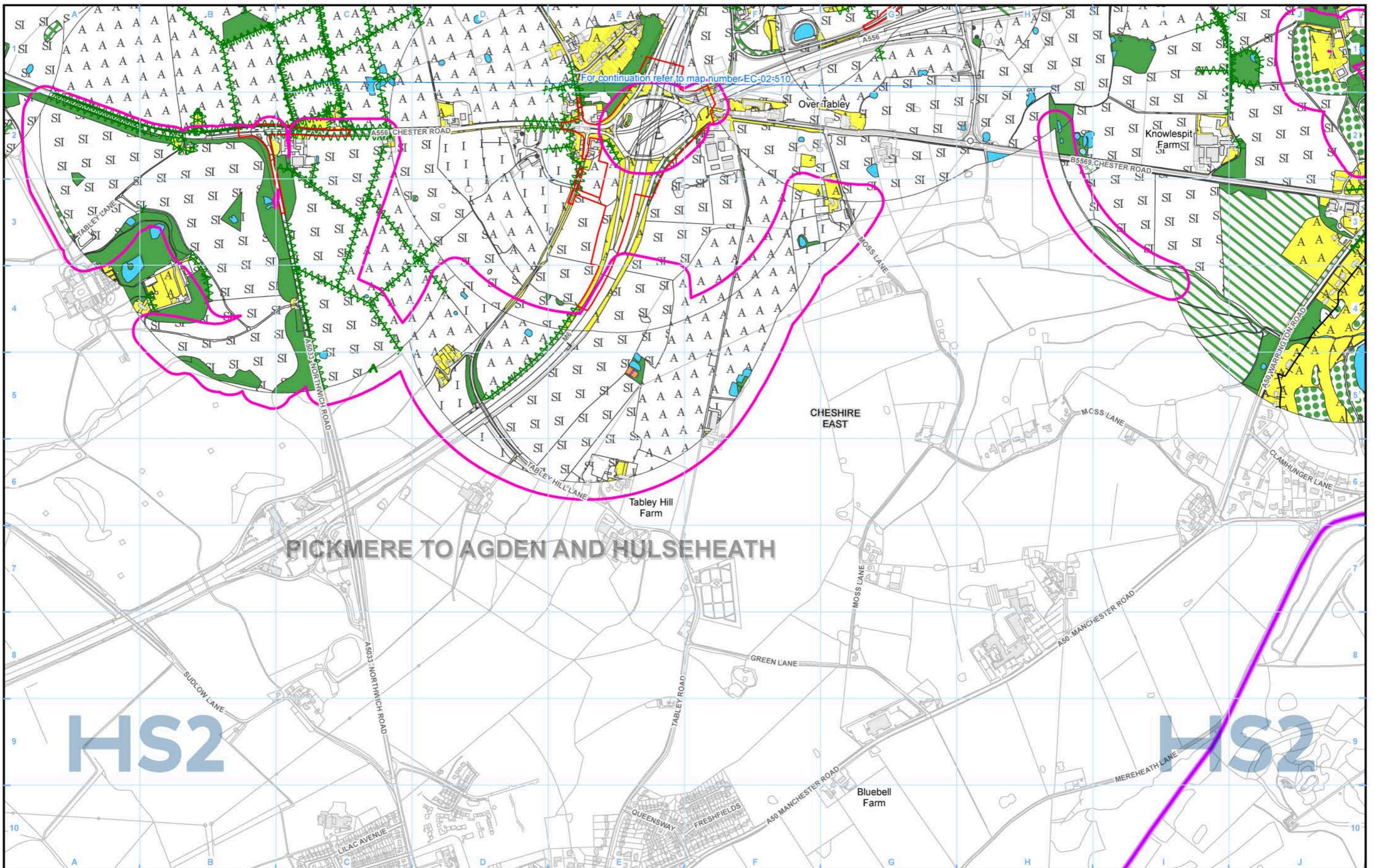
Doc Number: 2PT27-MWJ-EV-MAP-M000-002820-P01



Scale at A3: 1:10,000

0 100 200 300 400
Metres

Date: 29/03/23



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

For full legend please refer to EC-02 Legend page
■ Area contains new survey data

Map Number
EC-02-510-R1

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA03:
Pickmere to Agden and Hulseheath



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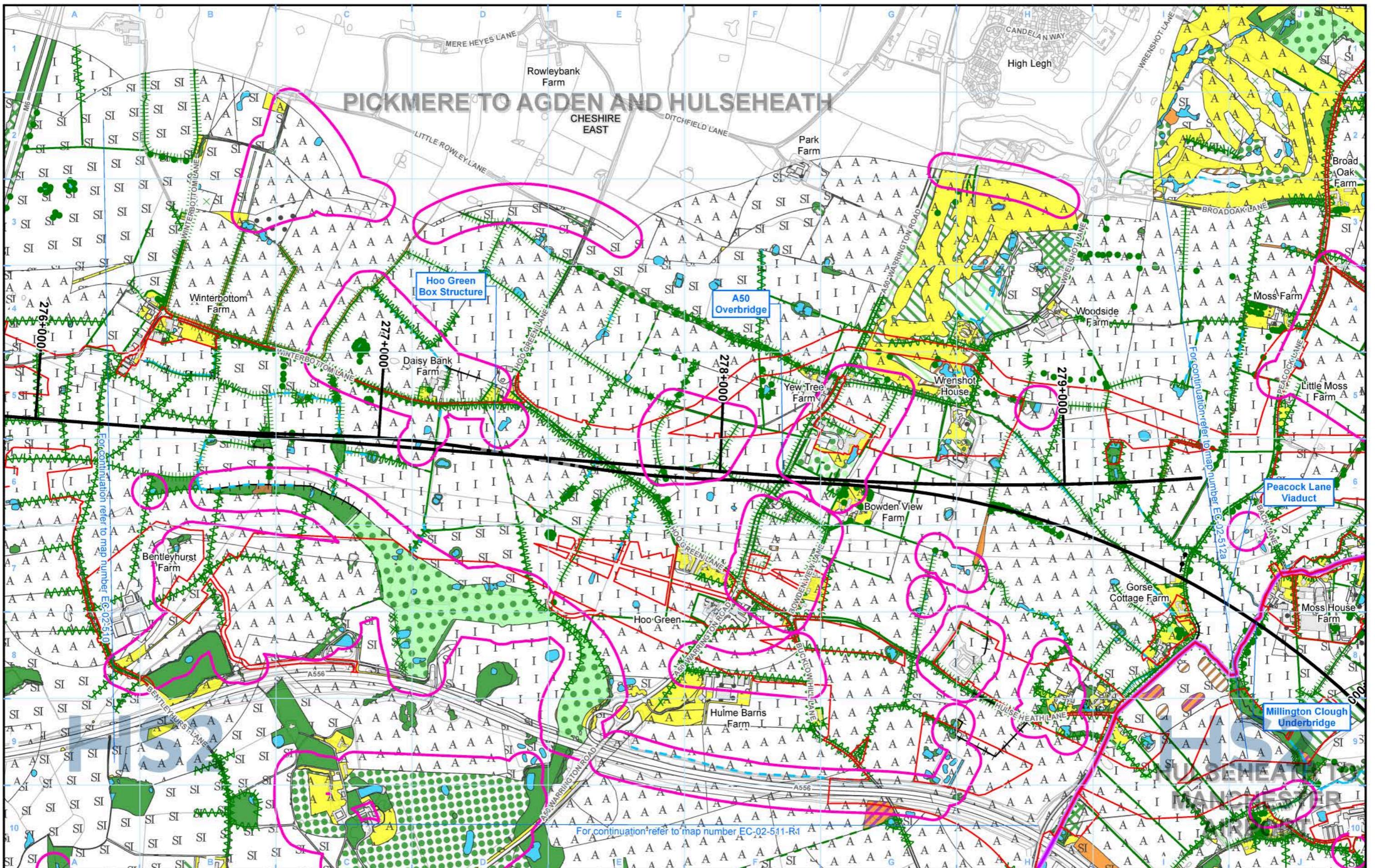
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Scale at A3: 1:10,000

0 100 200 300 400

Metres Date: 29/03/23



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

For full legend please refer to EC-02 Legend page
■ Area contains new survey data

Map Number	EC-02-511
Map Name	Phase 1 Habitat (1:10,000) SES2 and AP2 ES
Community Area MA03: Pickmere to Agden and Hulse Heath	
Doc Number: 2PT27-MWJ-EV-MAP-M000-000782-P01	



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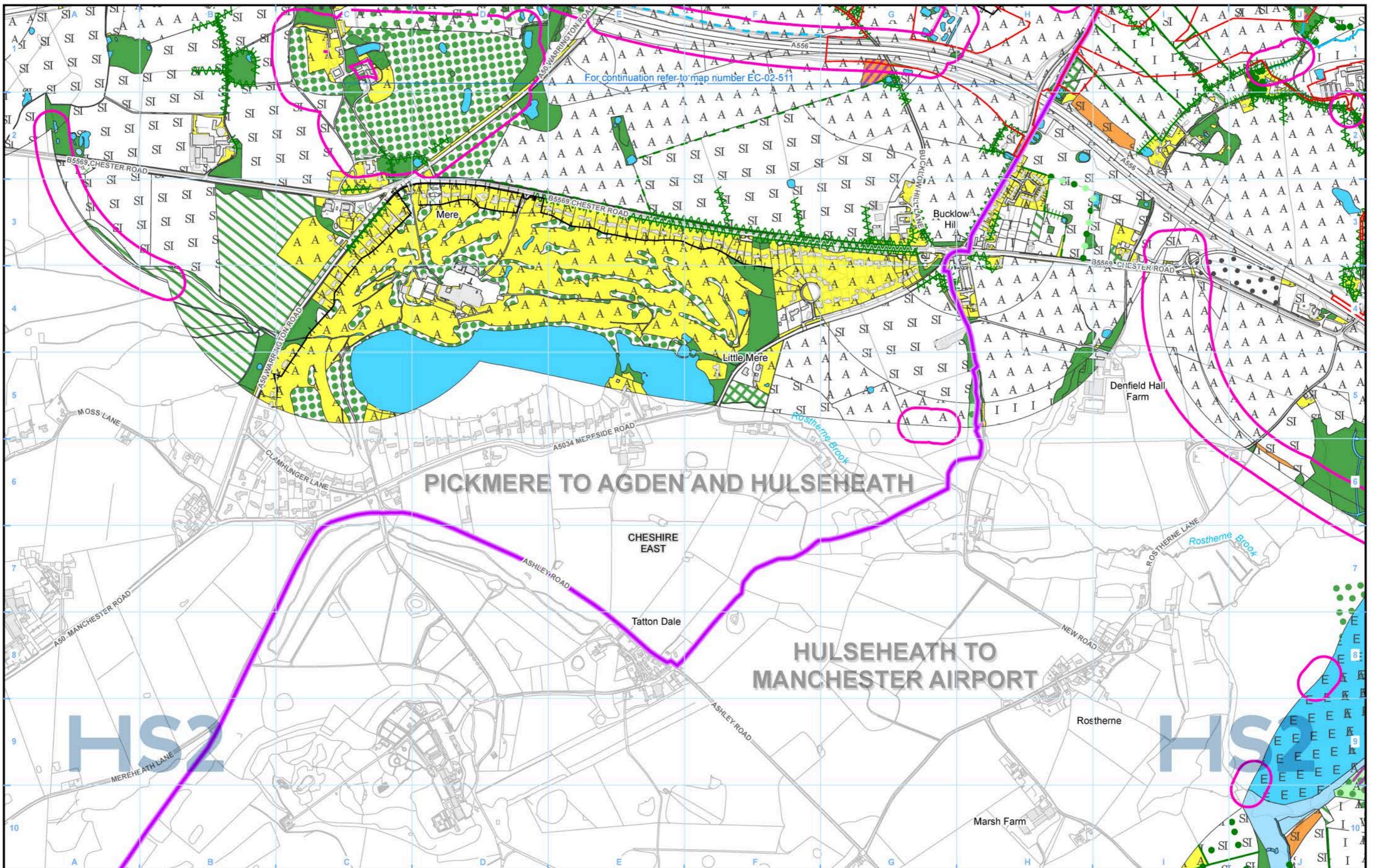


Scale at A3: 1:10,000

Metres

0 100 200 300 400

Date: 29/03/23



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

For full legend please refer to EC-02 Legend page
Area contains new survey data

Map Number
EC-02-511-R1

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA03:
Pickmere to Agden and Hulseheath

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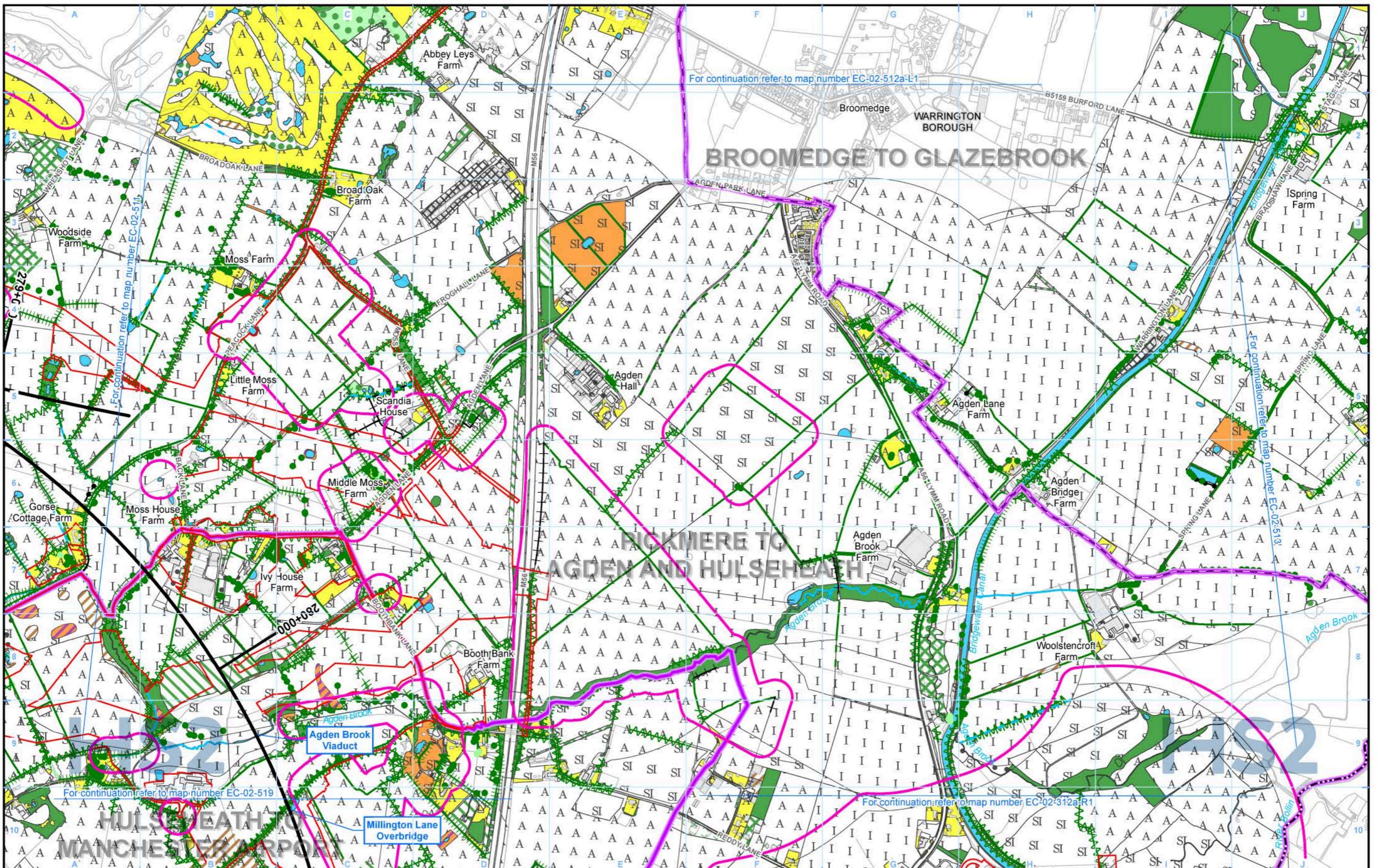


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Scale at A3: 1:10,000
0 100 200 300 400
Metres
Date: 29/03/23



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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Number EC-02-512a
Map Name Phase 1 Habitat (1:10,000)
SES2 and AP2 ES
Community Area MA03: Pickmere to Agden and Hulseheath
Doc Number: 2PT27-MWJ-EV-MAP-M000-000783-P01
Date: 29/03/23

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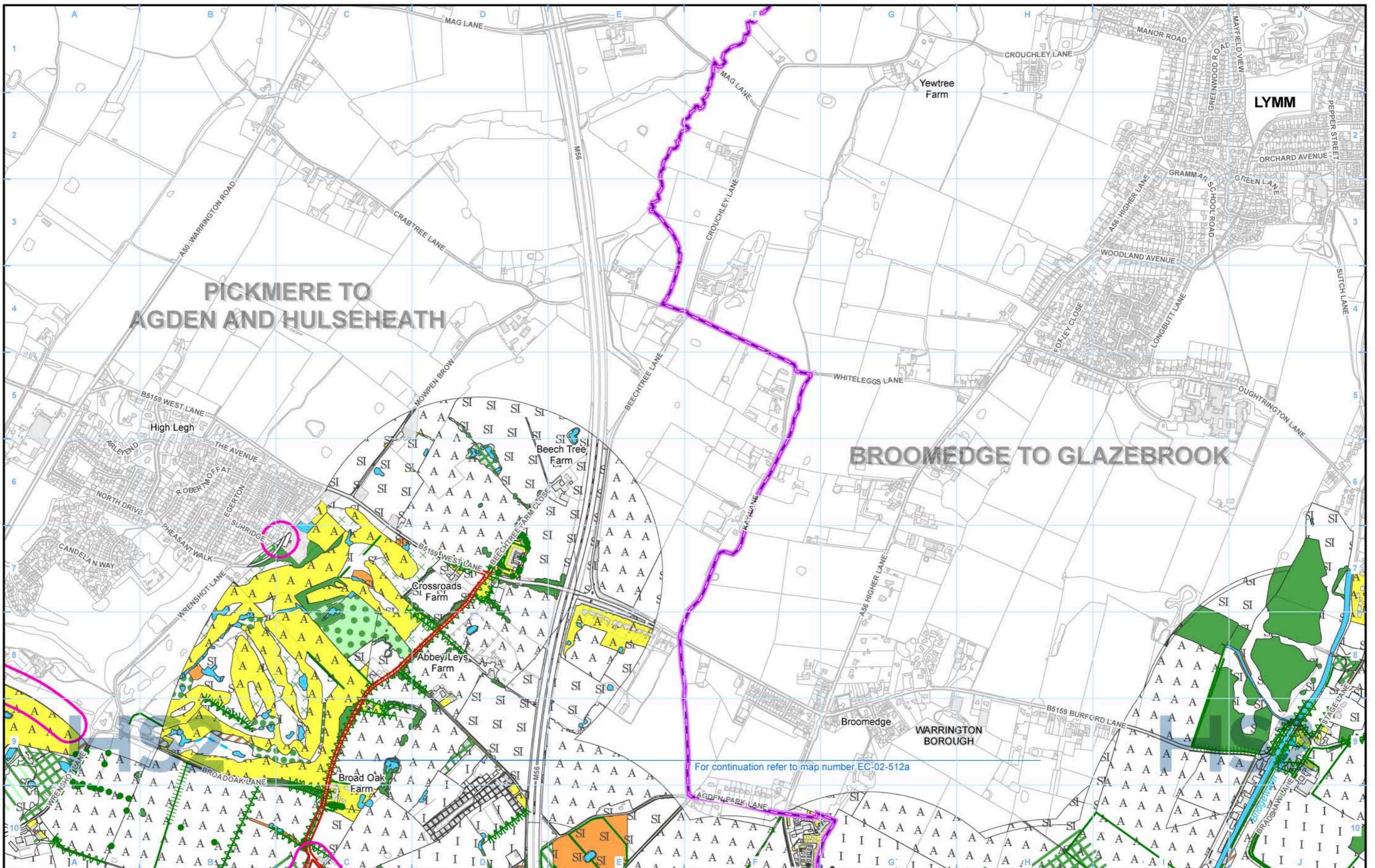
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 0 100 200 300 400 Metres





- 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
- For full legend please refer to EC-02 Legend page
- Area contains new survey data

Map Number
EC-02-512a-L1

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA03:
Pickmere to Agden and Hulseheath



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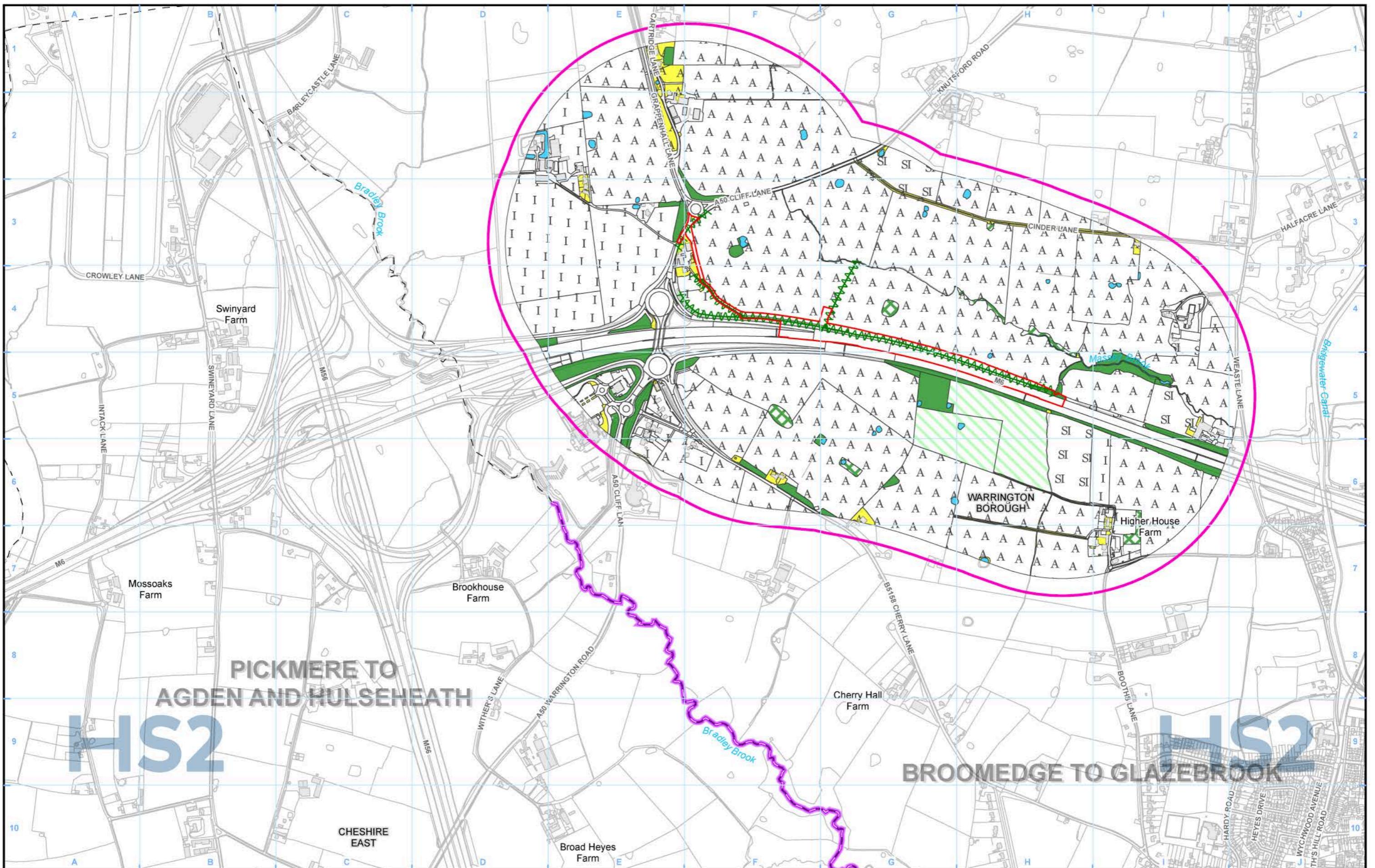
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Date: 29/03/23

Scale at A3: 1:10,000





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

For full legend please refer to EC-02 Legend page
■ Area contains new survey data

Map Number
EC-02-512a-L2

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA03:
Pickmere to Agden and Hulseheath



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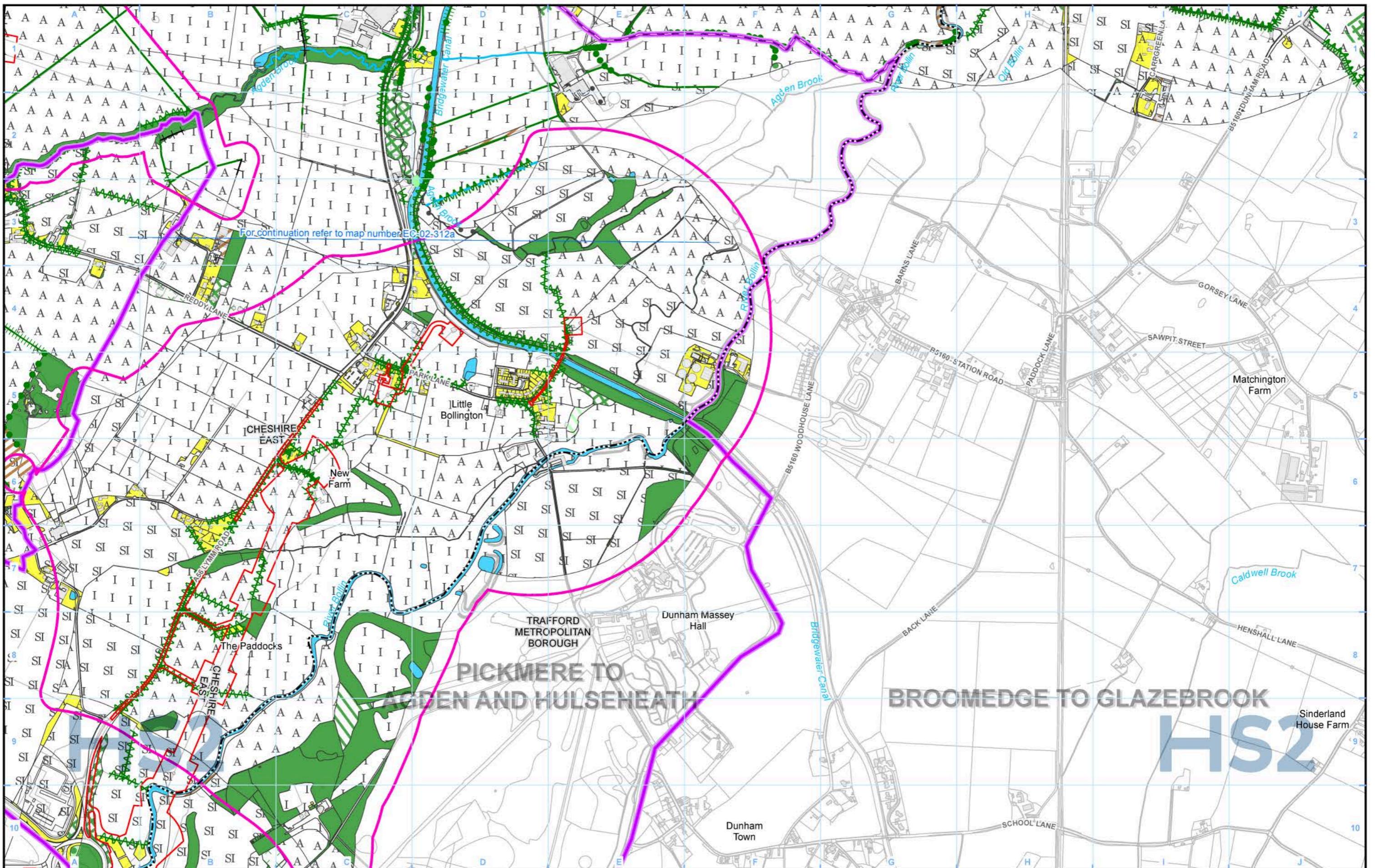
Doc Number: 2PT27-MWJ-EV-MAP-M000-003596-P01



Scale at A3: 1:10,000

0 100 200 300 400
Metres

Date: 29/03/23



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

For full legend please refer to EC-02 Legend page
Area contains new survey data

Map Number
EC-02-512a-R1

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA03:
Pickmere to Agden and Hulseheath

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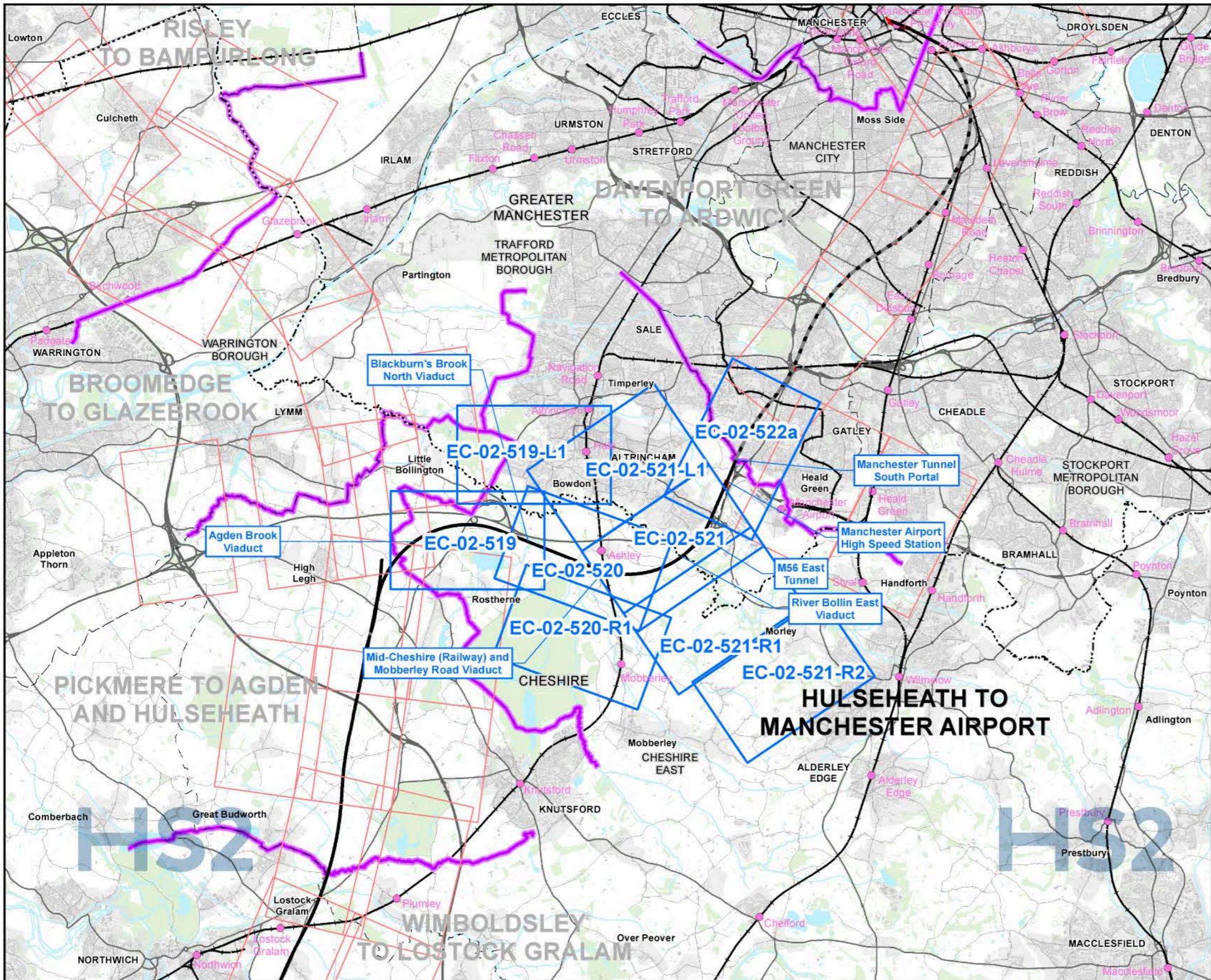
Doc Number: 2PT27-MWJ-EV-MAP-M000-003683-P01



Scale at A3: 1:10,000

Date: 29/03/23

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Map Series Information:

This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey, the information is based on available desk studies and interpretation of aerial photography.

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

Main Map Legend	
Route in tunnel	Map sheets included in this community area with amendment
Route on surface	Map sheet included in this community with no amendment
Depot, station, headhouse or portal building	Map sheets not included in this community area
Existing railway station	
County boundary	
District/Borough boundary	

Map Number EC-02-INDEX-MA06
Map Name Index Map of: Phase 1 Habitat (1:10,000) SES2 and AP2 ES
Community Area MA06: Hulseheath to Manchester Airport

Phase 1 Habitat survey legend

Habitat Areas		Linear Habitats		Point Habitats	
	Lichen/bryophyte heath		Inland cliff - acid/neutral		Scrub - scattered
	Broadleaved woodland - semi-natural		Inland cliff - basic		Broadleaved parkland/scattered trees
	Broadleaved woodland - plantation		Scree - acid/neutral		Coniferous parkland/scattered trees
	Coniferous woodland - semi-natural		Scree - basic		Coniferous parkland/scattered trees
	Coniferous woodland - plantation		Limestone pavement		Mixed parkland/scattered trees
	Mixed woodland - semi-natural		Other exposure - acid/neutral		Upland species-rich ledges
	Mixed woodland - plantation		Other exposure - basic		Marginal and inundation - marginal vegetation
	Scrub - dense/continuous		Cave		Running water
	Scrub - scattered		Quarry		E Running water - eutrophic
	Broadleaved parkland/scattered trees		Spoil		M Running water - mesotrophic
	Coniferous parkland/scattered trees		Mine		O Running water - oligotrophic
	Mixed parkland/scattered trees		Refuse-tip		D Running water - dystrophic
	Broadleaved woodland - recently felled		Cultivated/disturbed land - arable		C Running water - marl
	Coniferous woodland - recently felled		Cultivated/disturbed land - amenity grassland		B Running water - brackish
	Mixed woodland - recently felled		Cultivated/disturbed land - ephemeral/short perennial		W W Inland cliff
	Acid grassland - unimproved		Introduced shrub		XXX Scree
	Acid grassland - semi-improved		Intact hedge - native species-rich		W W Intact hedge - native species-rich
	Neutral grassland - unimproved		Intact hedge - species-poor		Intact hedge - species-poor
	Neutral grassland - semi-improved		Defunct hedge - native species-rich		W W Defunct hedge - native species-rich
	Calcareous grassland - unimproved		Defunct hedge - species-poor		Defunct hedge - species-poor
	Calcareous grassland - semi-improved		Hedge with trees - native species-rich		W W Hedge with trees - native species-rich
	Improved grassland		Hedge with trees - species-poor		Hedge with trees - species-poor
	Marsh/marshy grassland		Fence		Fence
	Poor semi-improved grassland		Wall		Wall
	Bracken - continuous		Dry ditch		Dry ditch
	Bracken - scattered		Boundary removed		Boundary removed
	Upland species-rich ledges		Earth bank		Earth bank
	Other tall herb and fern - ruderal		Caravan site		
	Other tall herb and fern - non ruderal		Buildings		
	Dry dwarf shrub heath - acid		Bare ground		
	Dry dwarf shrub heath - basic		Other habitat		
	Wet dwarf shrub heath				

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Map Number
EC-02 - Legend

Map Name
EC-02 - Phase 1 Habitat Survey
Legend

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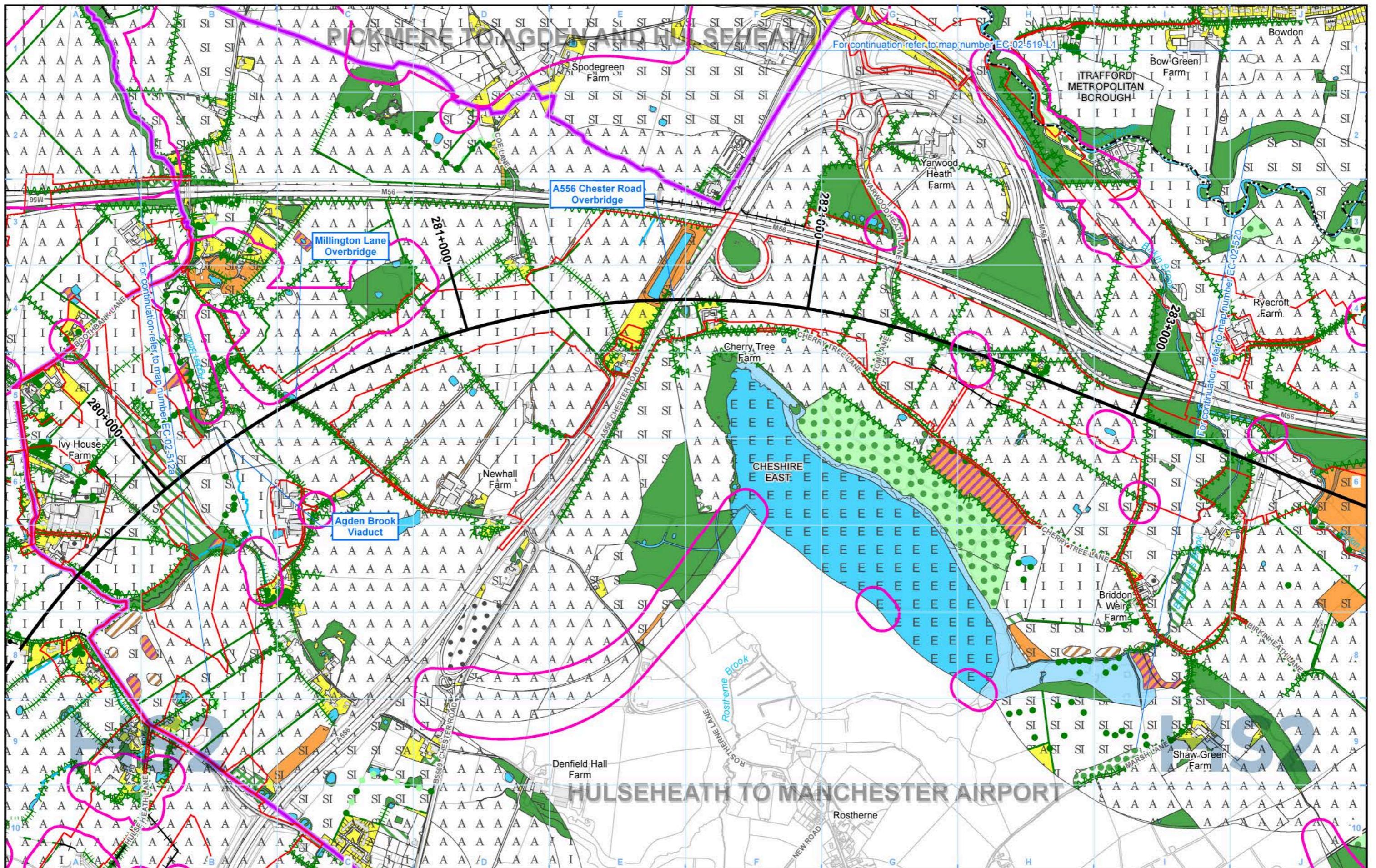
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Legend

- 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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Number **EC-02-519**
 Map Name **Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**
 Community Area MA06:
Hulseheath to Manchester Airport



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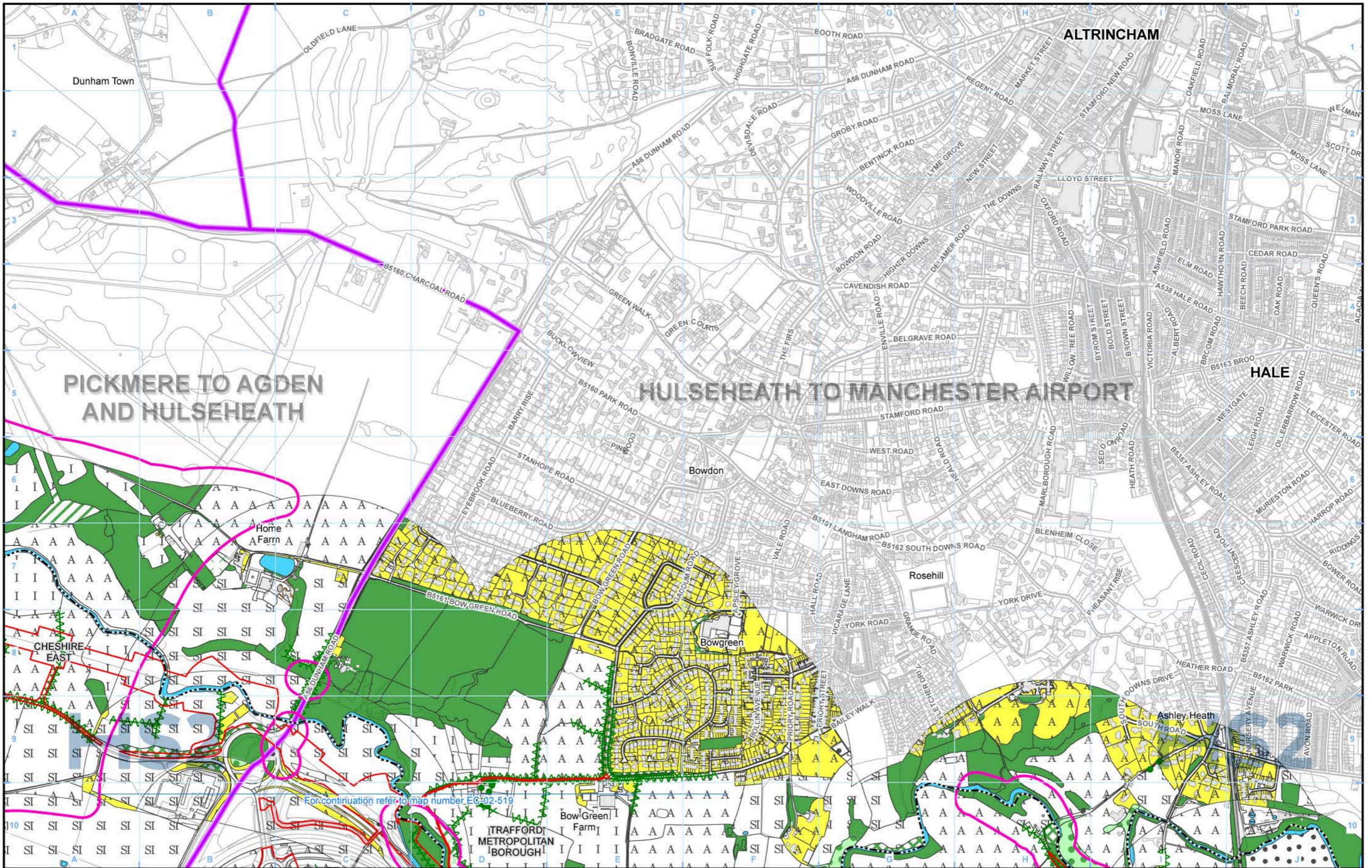
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 0 100 200 300 400
 Metres



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

For full legend please refer to EC-02 Legend page

Map Number **EC-02-519-L1**

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA06:
Hulseheath to Manchester Airport



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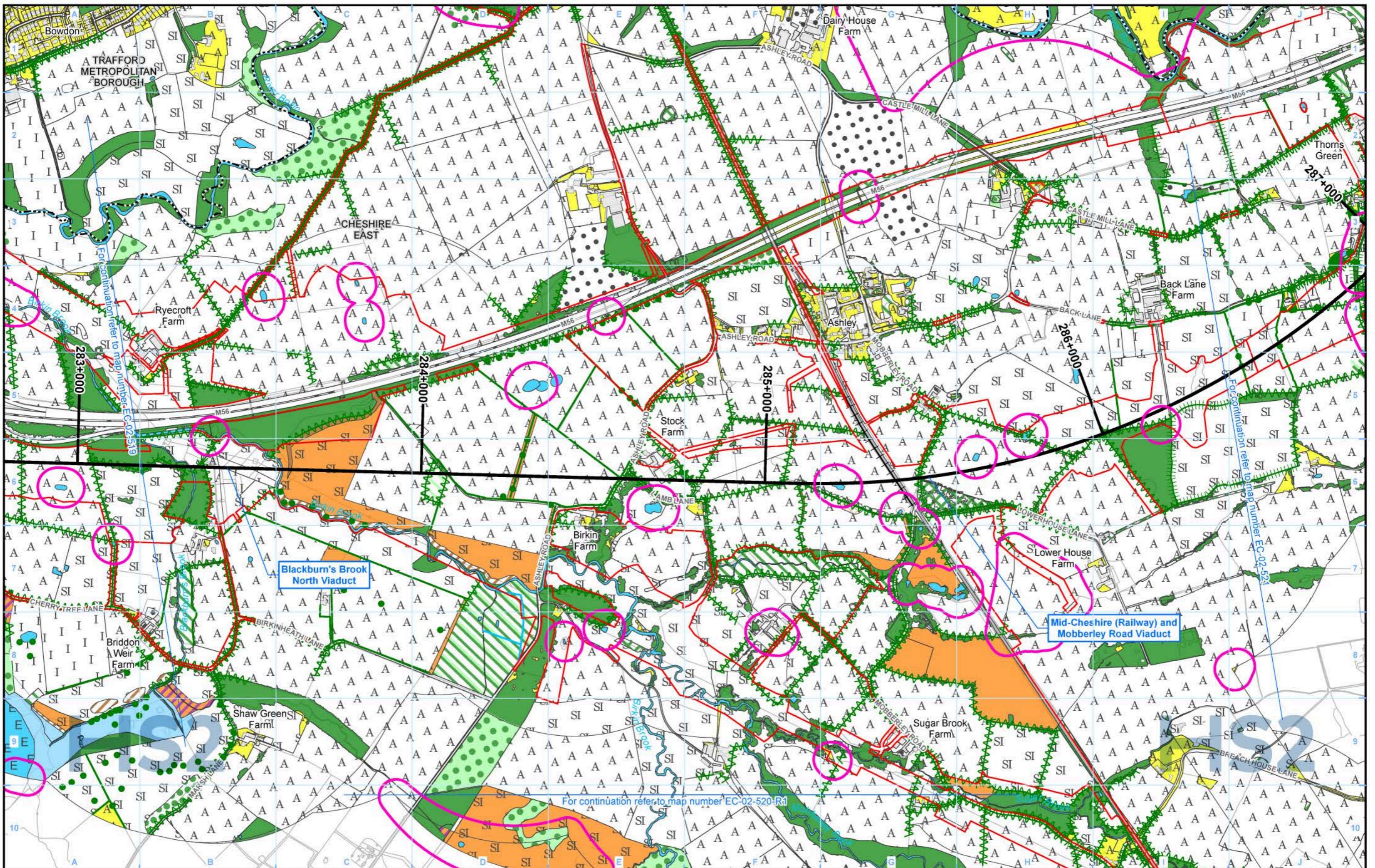
Doc Number: 2PT27-MWJ-EV-MAP-M000-002825-P01

Scale at A3: 1:10,000

0 100 200 300 400

Metres

Date: 29/03/23



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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

For continuation refer to map number EC-02-520-R1

Map Number
EC-02-520
Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA06:
Hulseheath to Manchester Airport



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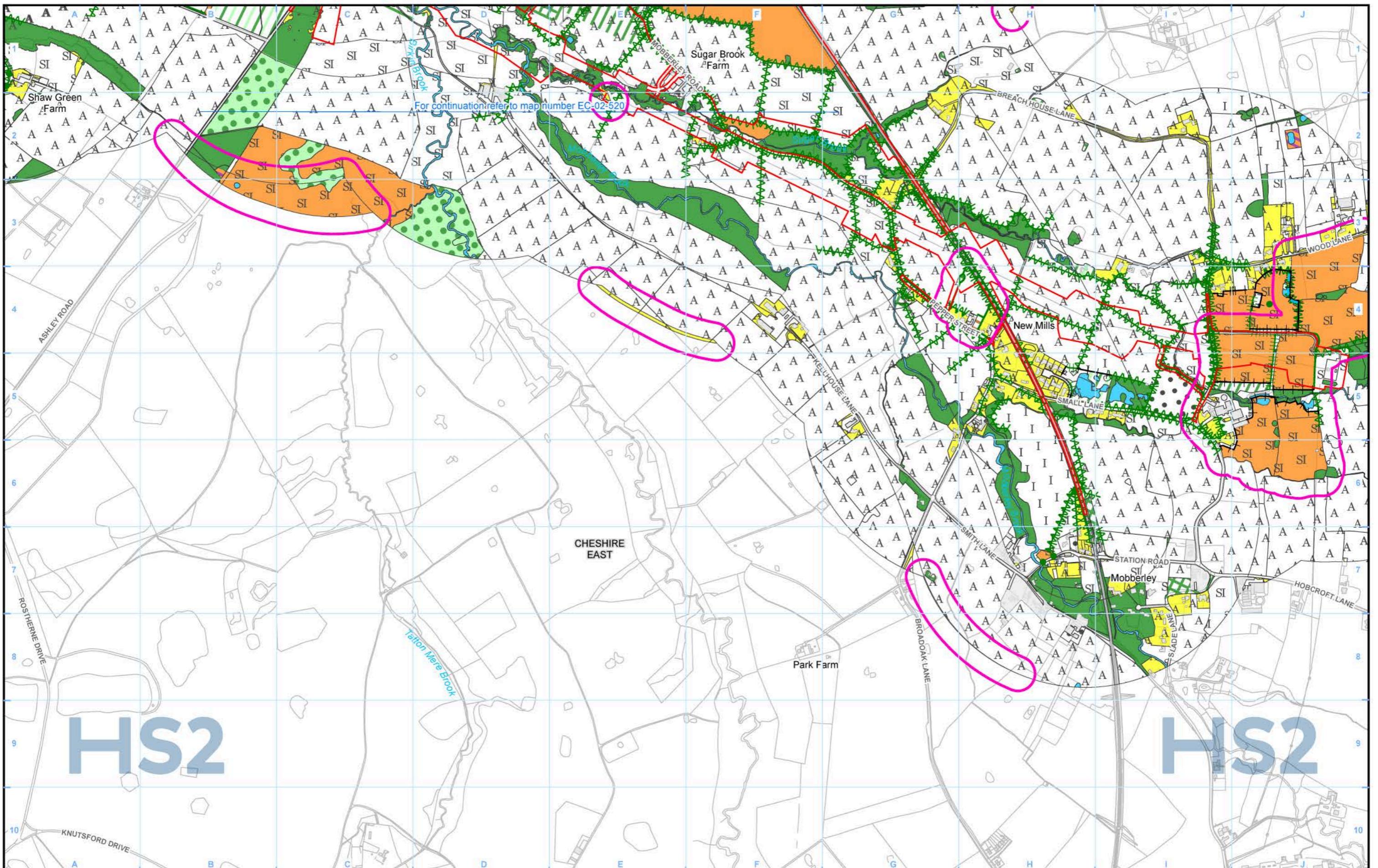
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Date: 29/03/23

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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Number **EC-02-520-R1**

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA06:
Hulseheath to Manchester Airport



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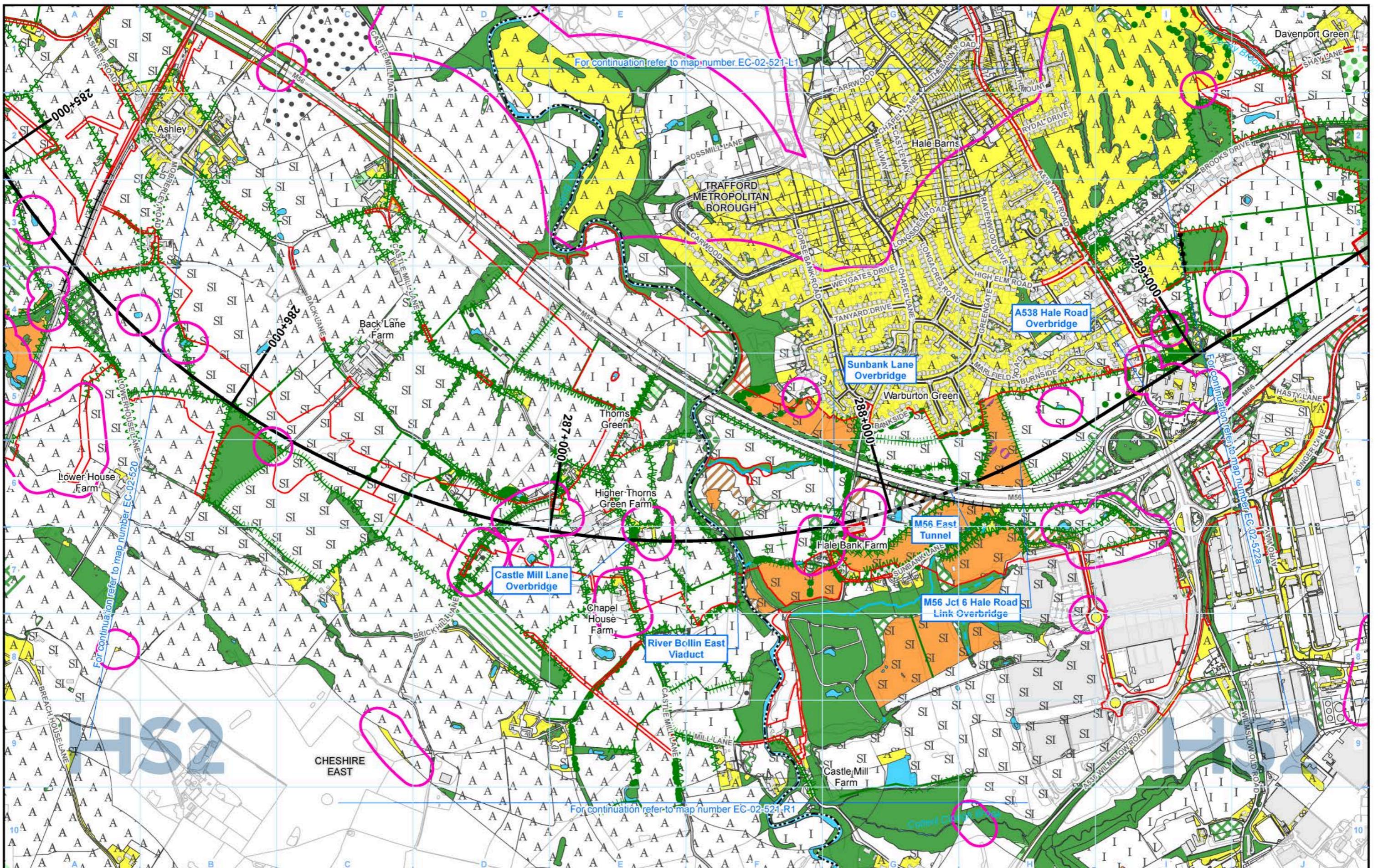
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Scale at A3: 1:10,000

Date: 29/03/23



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

For full legend please refer to EC-02 Legend page

 Area contains new survey data

Map Number **EC-02-521**

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA06:
Hulme Heath to Manchester Airport

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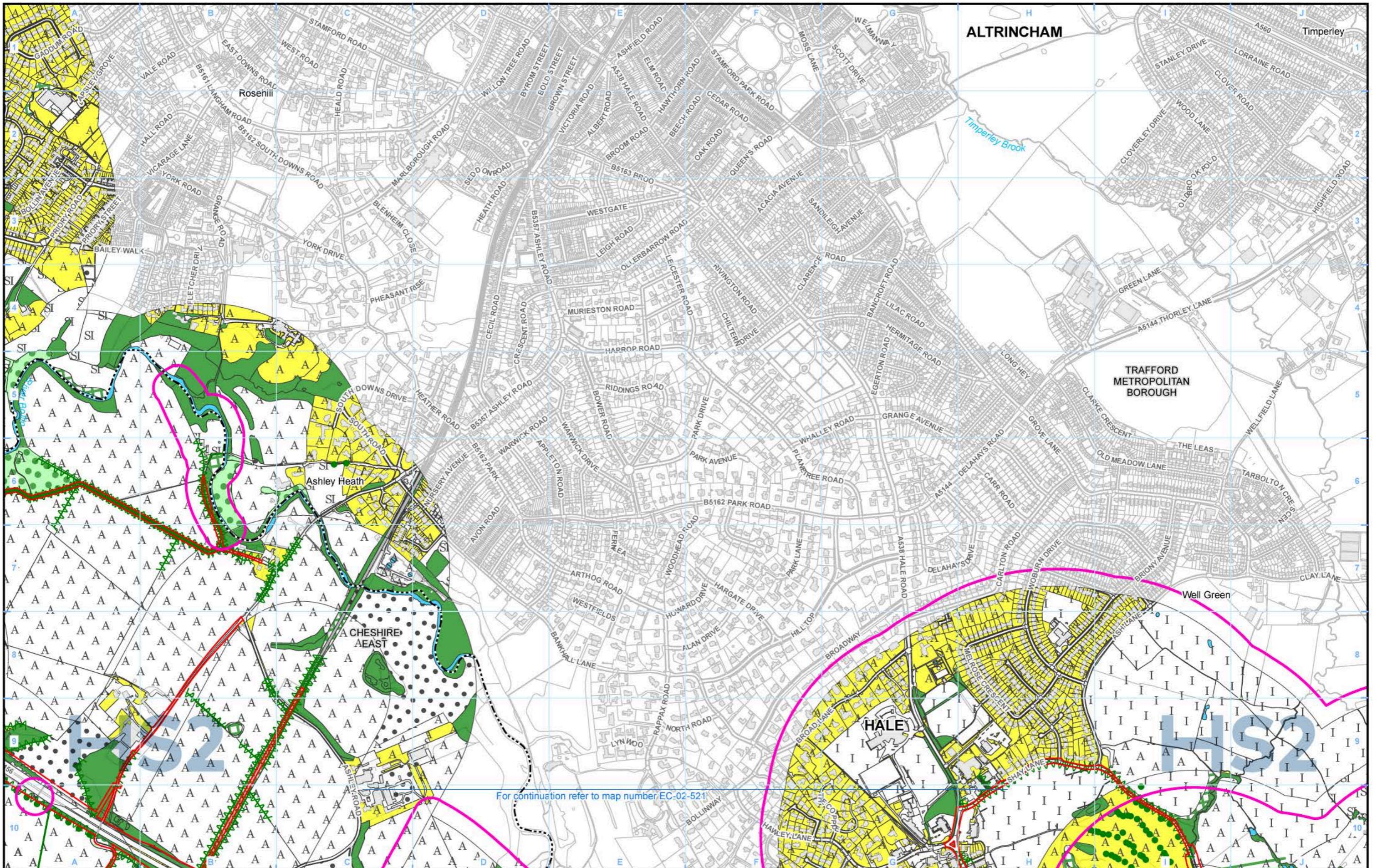
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Scale at A3: 1:10,000

0 100 200 300 400
Metres

Date: 29/03/23



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

For full legend please refer to EC-02 Legend page
Area contains new survey data

Map Number **EC-02-521-L1**

**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA06:
Hulseheath to Manchester Airport

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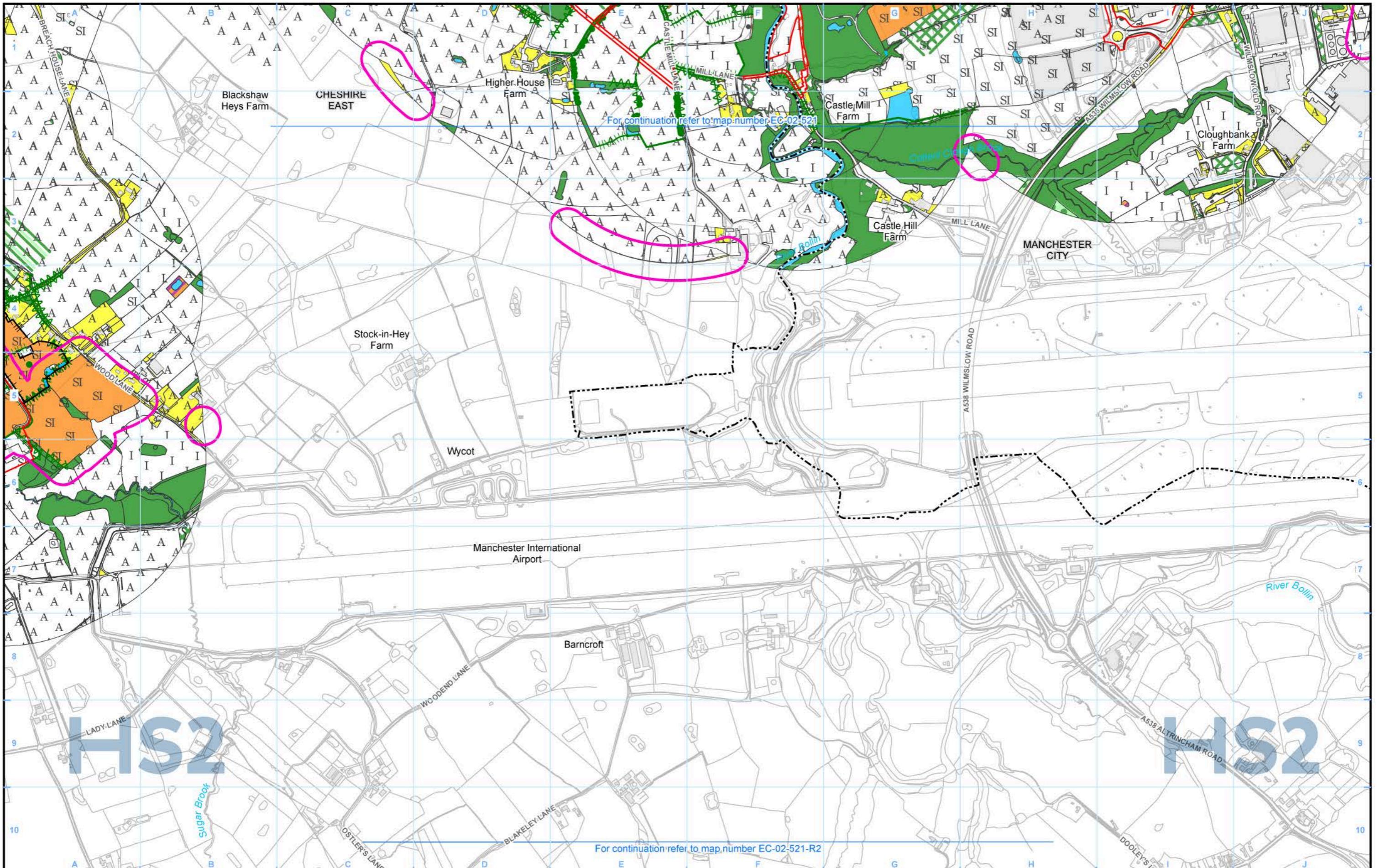
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Doc Number: 2PT27-MWJ-EV-MAP-M000-003607-P01

Scale at A3: 1:10,000

0 100 200 300 400
Metres

Date: 29/03/23



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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

For continuation refer to map number EC-02-521-R2

Map Number
EC-02-521-R1
Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**
Community Area MA06:
Hulseheath to Manchester Airport



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For full legend please refer to EC-02 Legend page

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

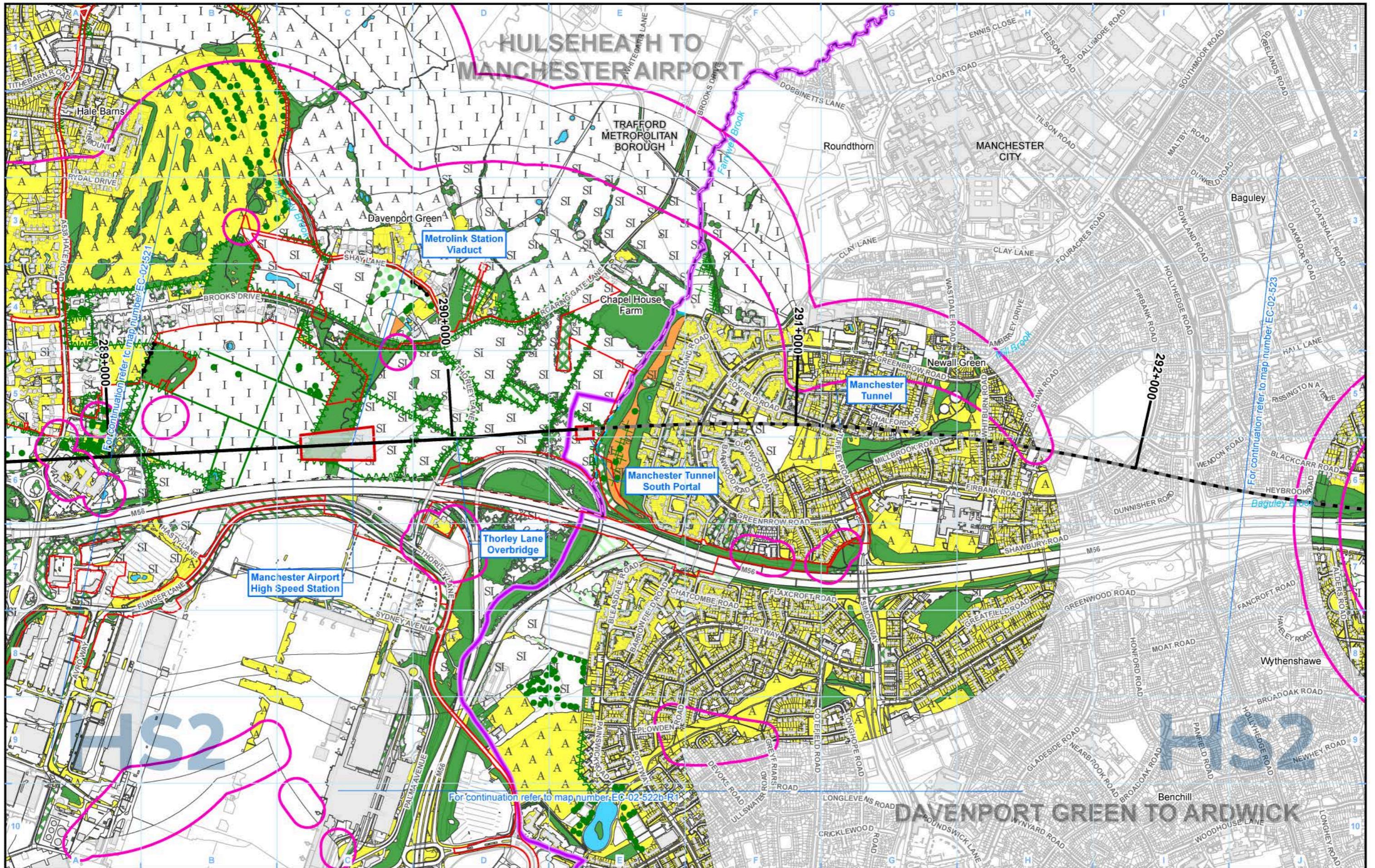
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Date: 29/03/23



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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Num

EC-02-522



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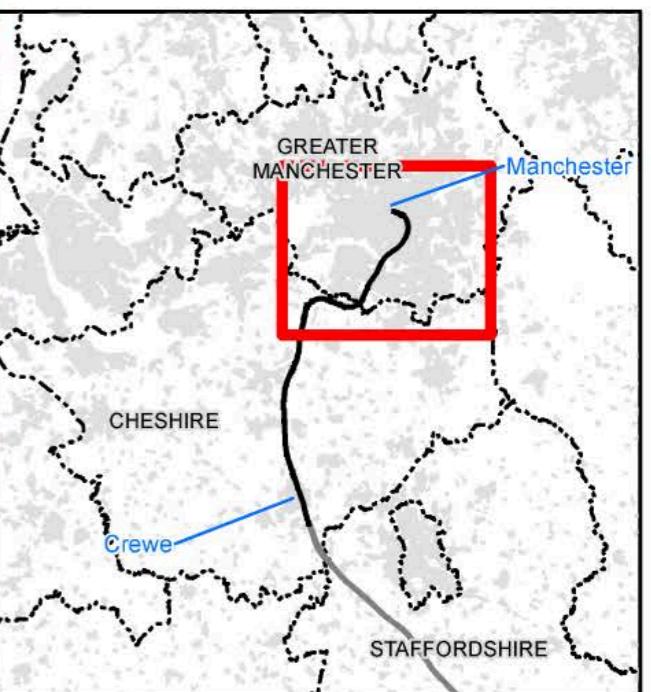
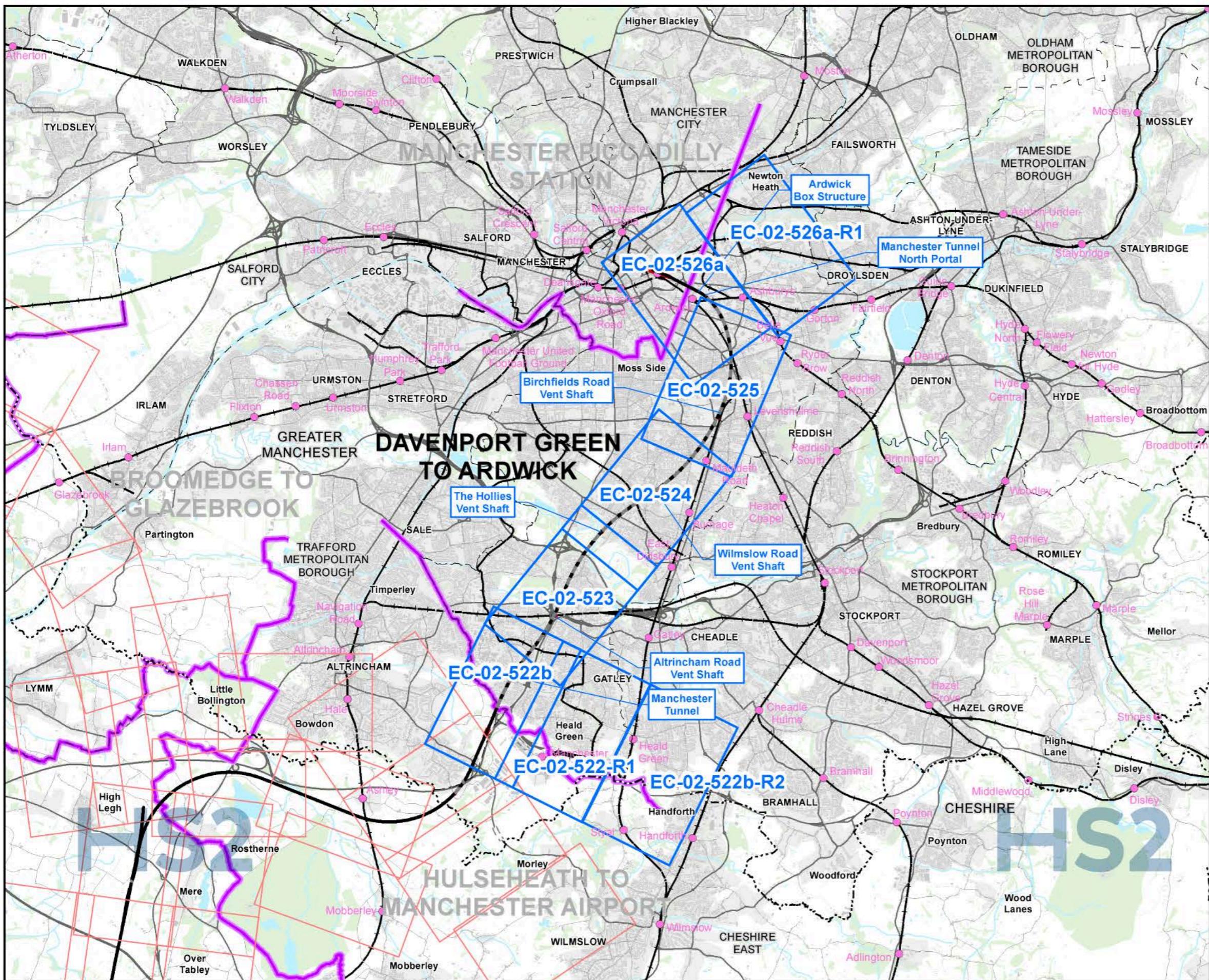
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Date: 29/03/23

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Map Series Information:

This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey, the information is based on available desk studies and interpretation of aerial photography.

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

Main Map Legend	
Route in tunnel	
Route on surface	
Depot, station, headhouse or portal building	
Community area boundary	
Existing railway station	
County boundary	
District/Borough boundary	
Map sheets included in this community area with amendment	
Map sheet included in this community with no amendment	
Map sheets not included in this community area	

Map Number	EC-02-INDEX-MA07
Map Name	Index Map of: Phase 1 Habitat (1:10,000) SES2 and AP2 ES
Community Area MA07: Davenport Green to Ardwick	
Community Area MA07:	Davenport Green to Ardwick

Phase 1 Habitat survey legend

Habitat Areas	
	Lichen/bryophyte heath
	Montane heath/dwarf herb
	Broadleaved woodland - plantation
	Dry heath/acid grassland
	Coniferous woodland - semi-natural
	Coniferous woodland - plantation
	Mixed woodland - semi-natural
	Mixed woodland - plantation
	Scrub - dense/continuous
	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Broadleaved woodland - recently felled
	Coniferous woodland - recently felled
	Mixed woodland - recently felled
	Acid grassland - unimproved
	Acid grassland - semi-improved
	Neutral grassland - unimproved
	Neutral grassland - semi-improved
	Calcareous grassland - unimproved
	Calcareous grassland - semi-improved
	Improved grassland
	Marsh/marshy grassland
	Poor semi-improved grassland
	Bracken - continuous
	Bracken - scattered
	Upland species-rich ledges
	Other tall herb and fern - ruderal
	Other tall herb and fern - non ruderal
	Dry dwarf shrub heath - acid
	Dry dwarf shrub heath - basic
	Wet dwarf shrub heath

	Inland cliff - acid/neutral
	Inland cliff - basic
	Scree - acid/neutral
	Scree - basic
	Limestone pavement
	Other exposure - acid/neutral
	Other exposure - basic
	Cave
	Quarry
	Spoil
	Mine
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

Linear Habitats	
	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Running water - eutrophic
	Running water - mesotrophic
	Running water - oligotrophic
	Running water - dystrophic
	Running water - marl
	Running water - brackish
	Inland cliff
	Scree
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

Point Habitats	
	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees

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Map Number EC-02 - Legend

Map Name EC-02 - Phase 1 Habitat Survey
Legend

HS2

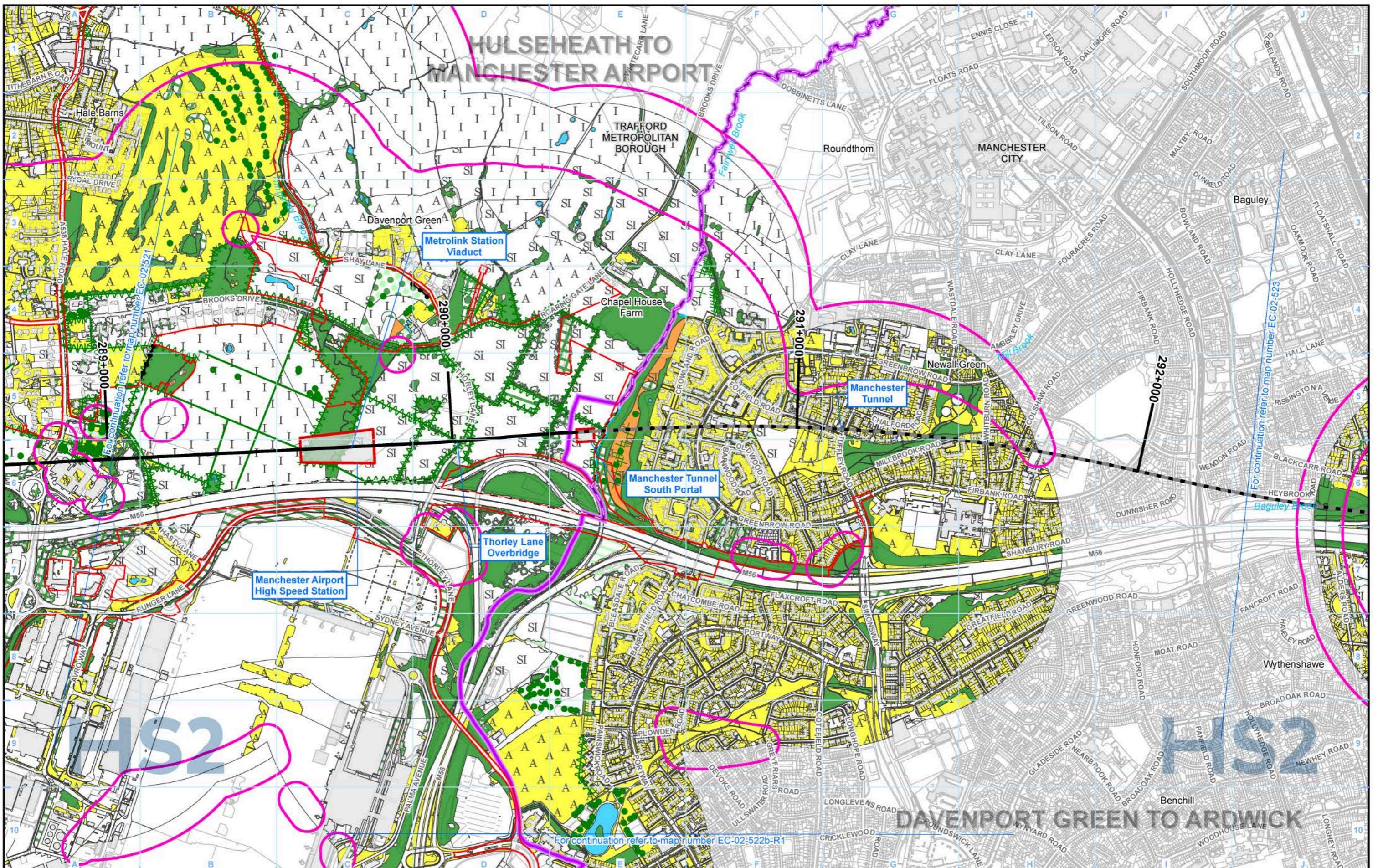
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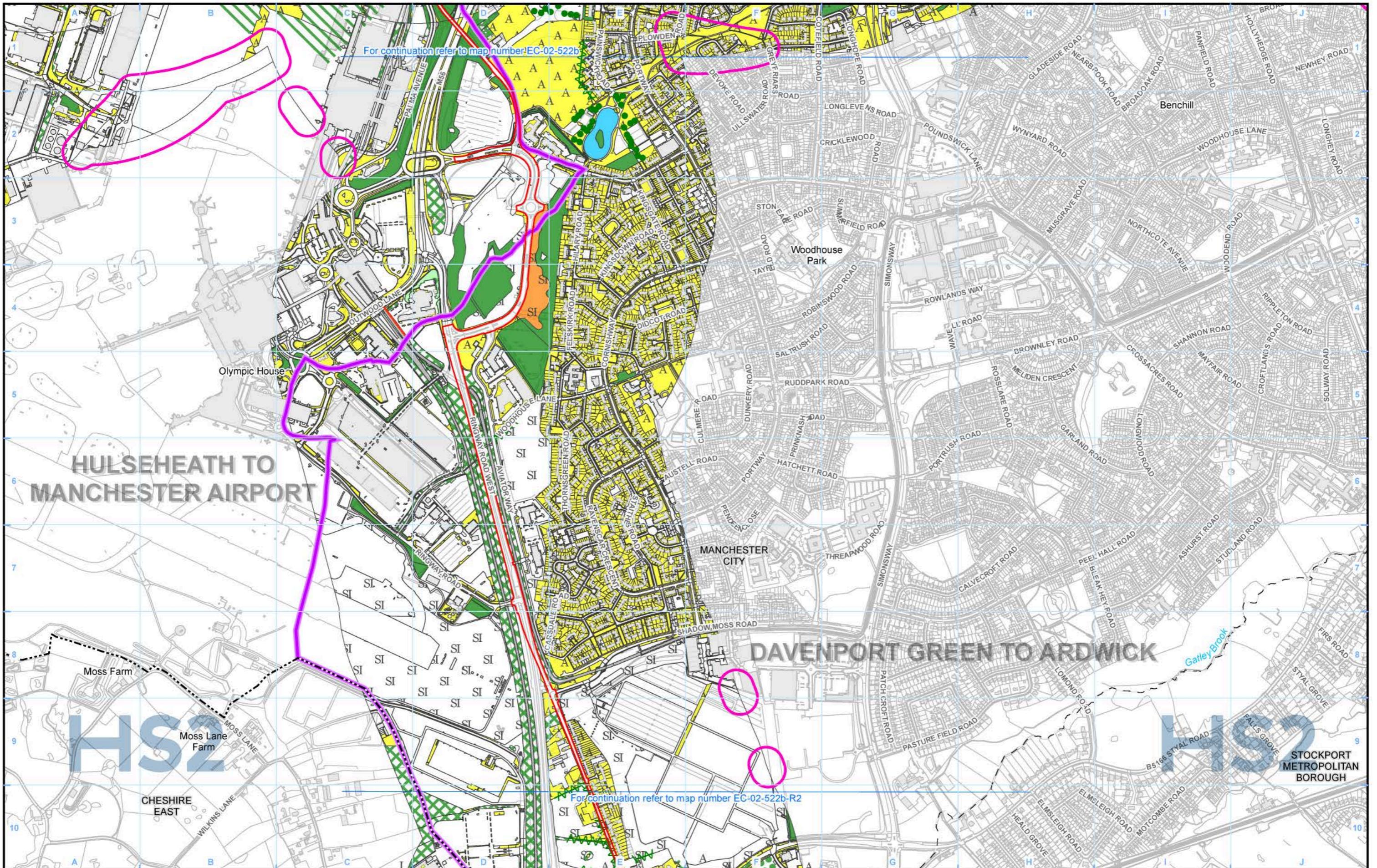
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Legend

- 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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Number: **EC-02-522b-R1**
Phase 1 Habitat (1:10,000)
SES2 and AP2 ES
Community Area MA07:
Davenport Green to Ardwick



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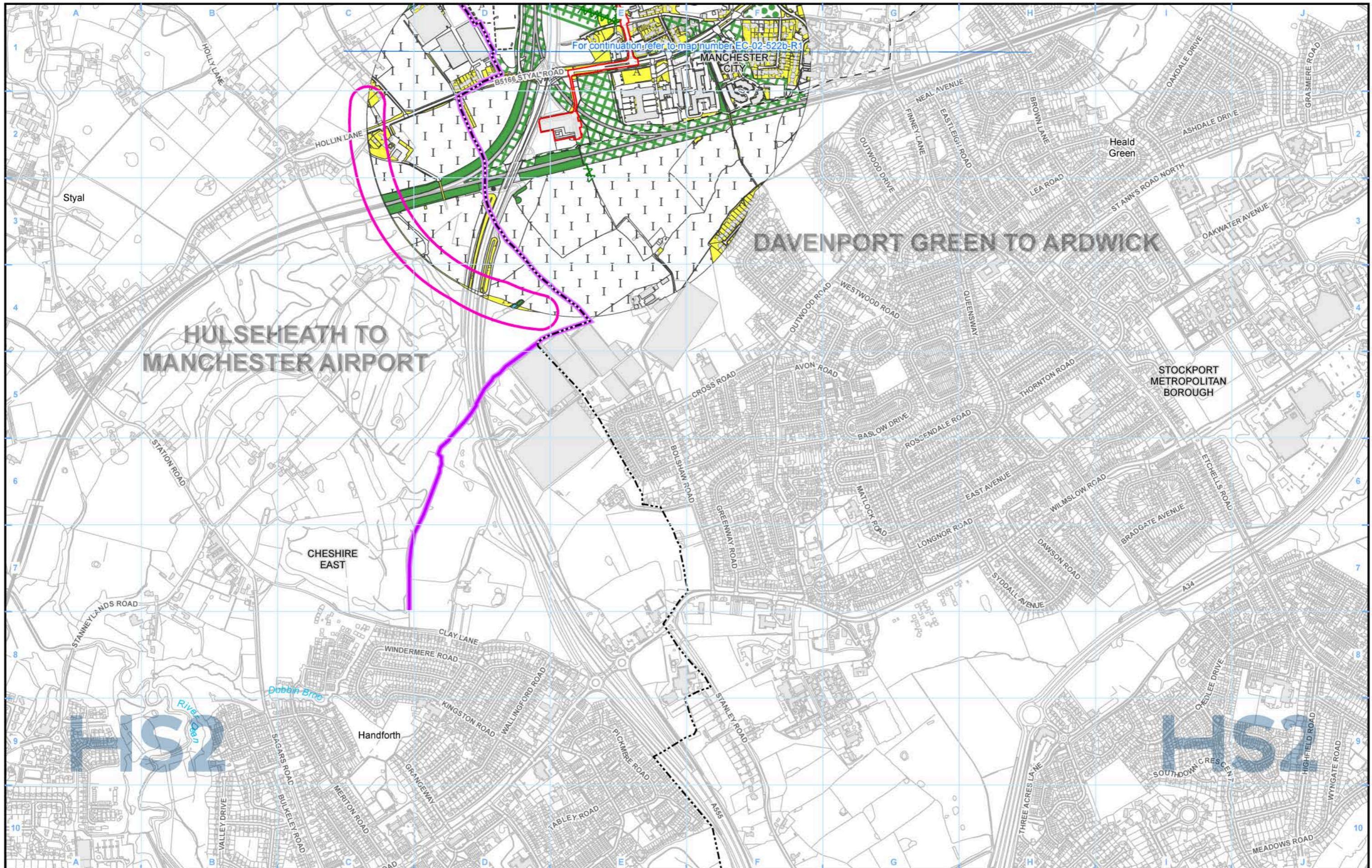
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Scale at A3: 1:10,000
0 100 200 300 400
Metres



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

For full legend please refer to EC-02 Legend page

 Area contains new survey data

Map Number

EC-02-522b-R2

Phase 1 Habitat (1:10,000)
SES2 and AP2 ES

Community Area MA07:
Davenport Green to Ardwick



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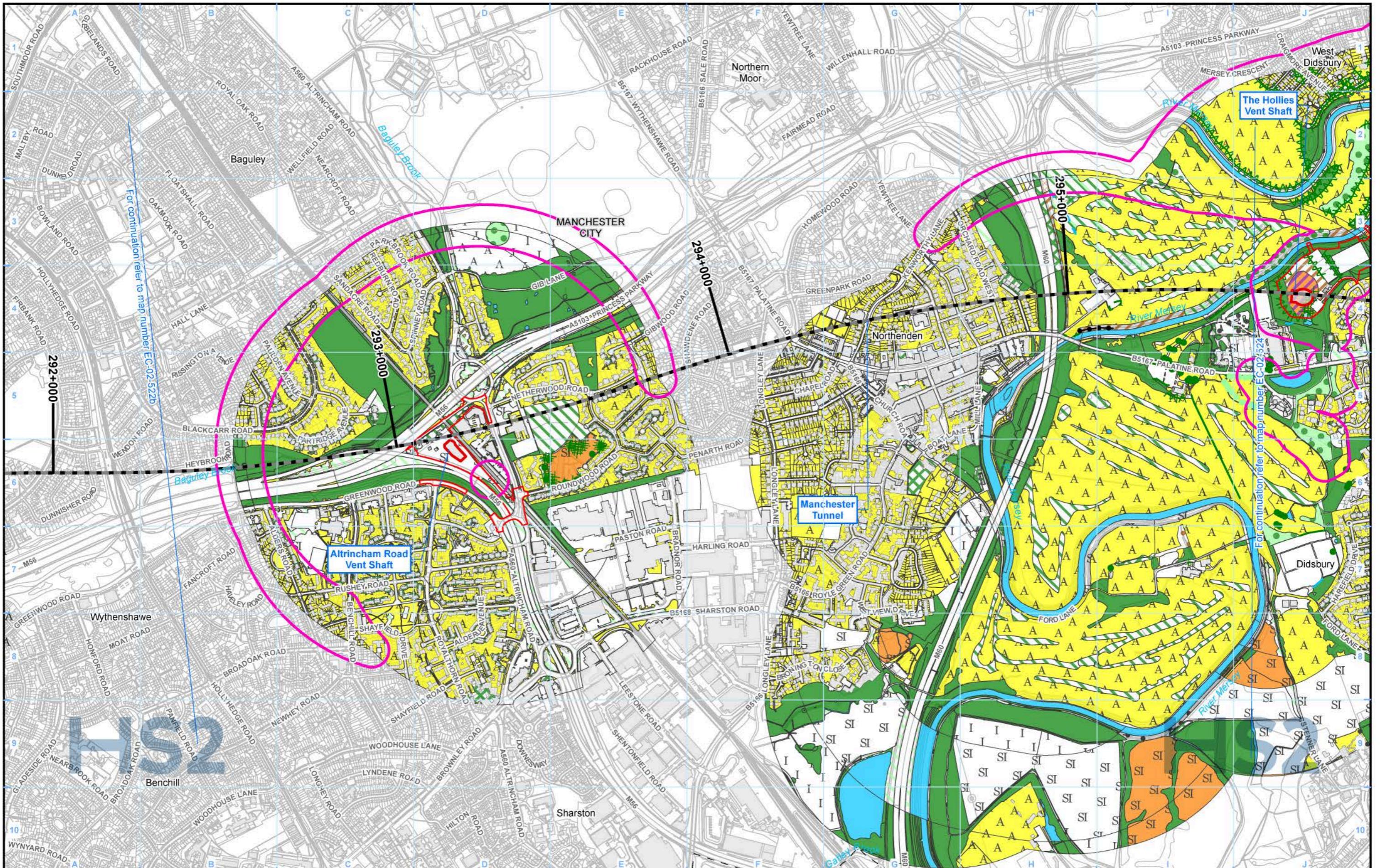
Scale at A3: 1:10,000



Scale at A3: 1:10,000

A horizontal number line starting at 100 and ending at 400. There are tick marks at 100, 200, 300, and 400.

82-59


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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Number

EC-02-523

Map Name

**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA07:
Davenport Green to Ardwick



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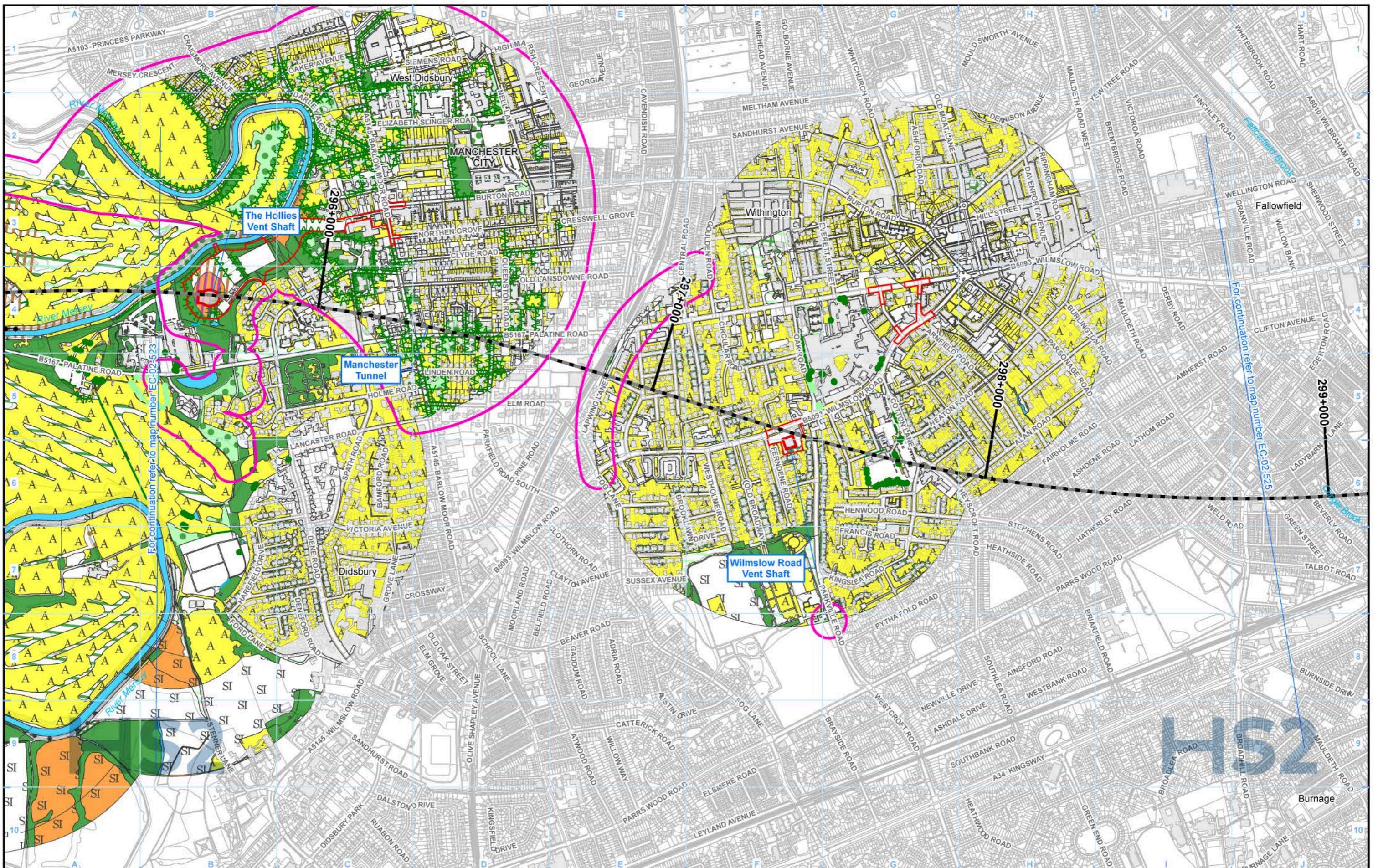
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Scale at A3: 1:10,000

Date: 29/03/23


Legend

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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Number

EC-02-524

Map Name

**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA07:
Davenport Green to Ardwick



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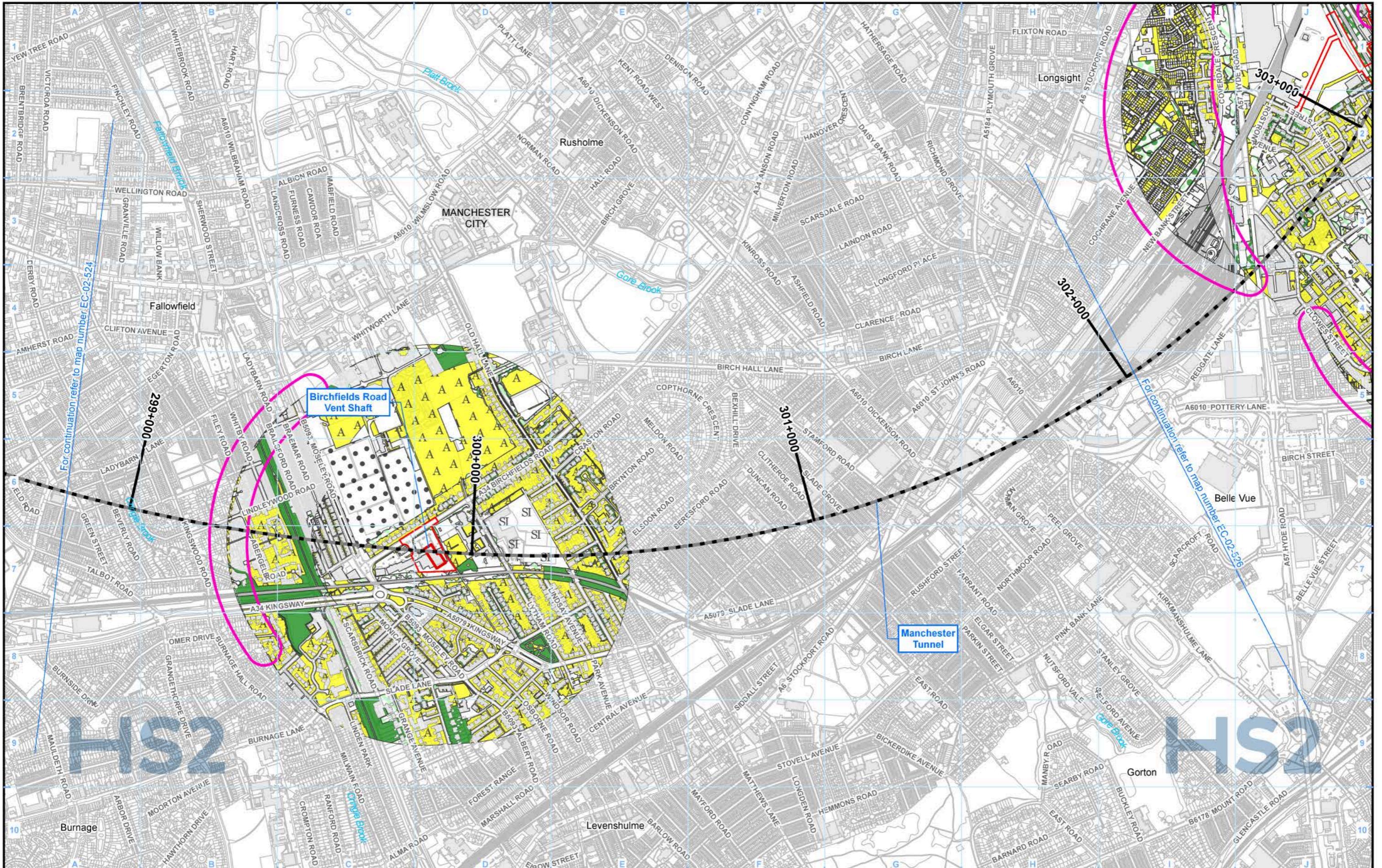
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Scale at A3: 1:10,000



Date: 29/03/23


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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Number

EC-02-525

Map Name

**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA07:
Davenport Green to Ardwick



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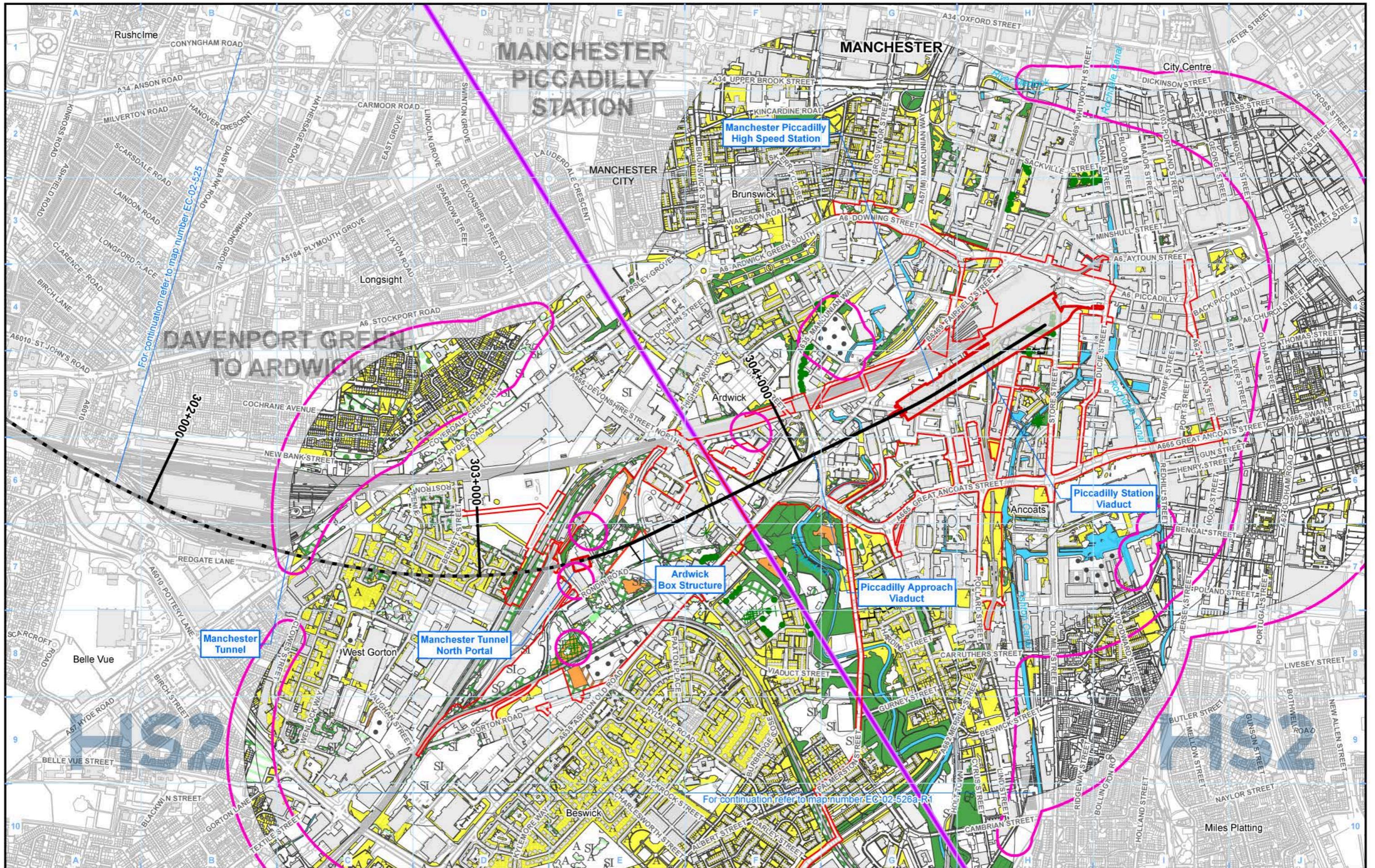
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Scale at A3: 1:10,000

0 100 200 300 400
Metres

Date: 29/03/23



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

For full legend please refer to EC-02 Legend page

Area contains new survey data

Map Number

EC-02-526a



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Phase 1 Habitat (1:10,000)
SES2 and AP2 ES

Community Area MA07:
Davenport Green to Ardwick

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Scale at A3: 1:10,000

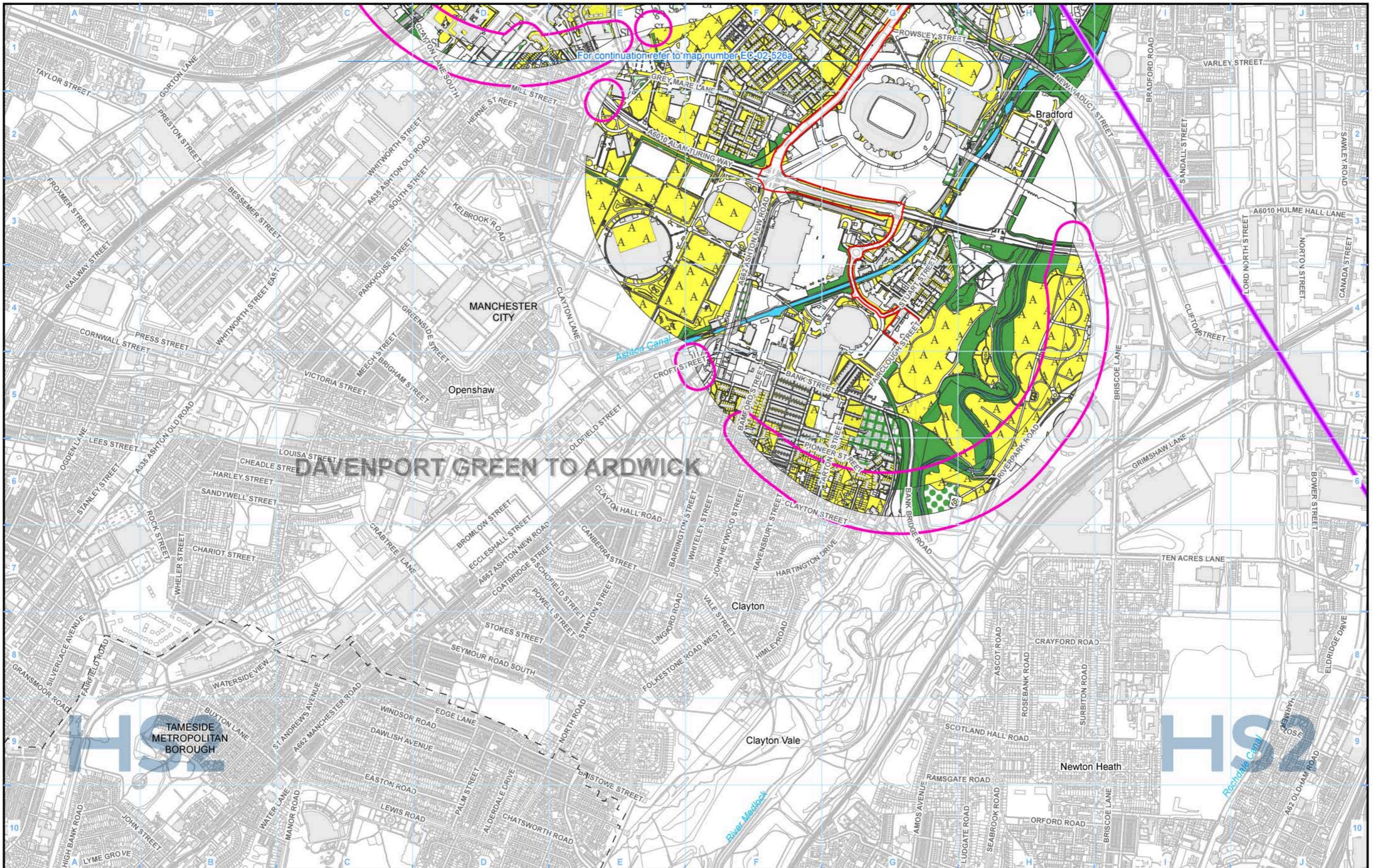
200 300

Metres

Scale at A3: 1:10,000

Metres

Date: 29/03/23



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

For full legend please refer to EC-02 Legend page

■ Area contains new survey data

Map Number
EC-02-526a-R1

Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**

Community Area MA07:
Davenport Green to Ardwick



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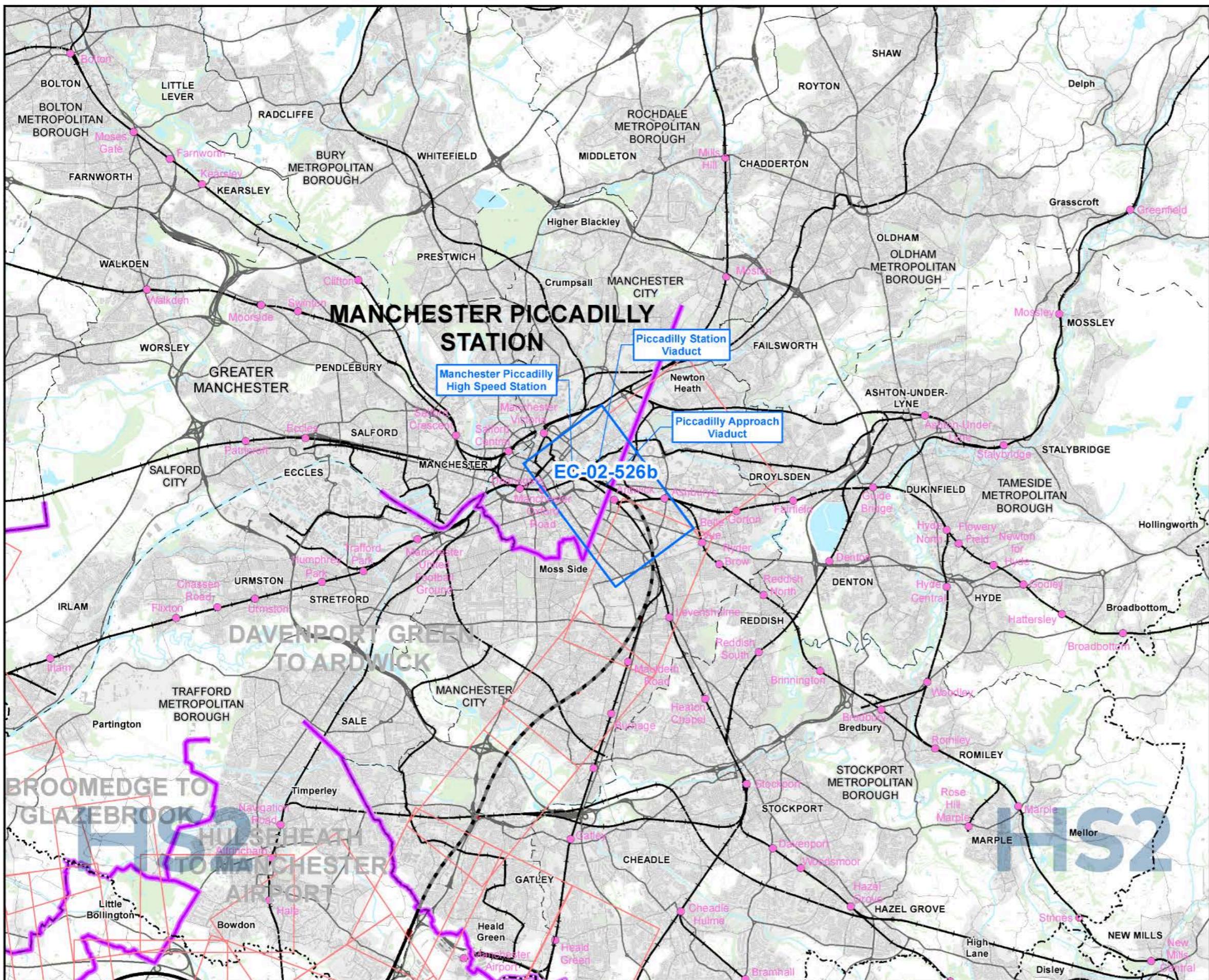
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Scale at A3: 1:10,000



Date: 29/03/23



Main Map Legend

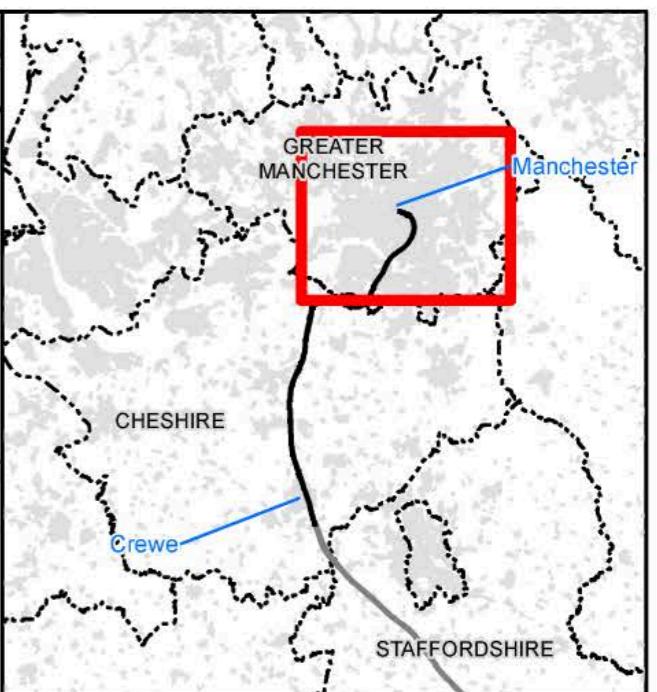
- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary

- Map sheets included in this community area with amendment
- Map sheet included in this community with no amendment
- Map sheets not included in this community area

Map Number: EC-02-INDEX-MA08

Map Name: Index Map of:
Phase 1 Habitat (1:10,000)
SES2 and AP2 ES

Community Area MA08:
Manchester Piccadilly Station



Map Series Information:

This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey, the information is based on available desk studies and interpretation of aerial photography.

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

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Scale at A3: 1:100,000

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

Doc Number: 2PT27-MWJ-EV-MAP-M000-000812-P01

Date: 29/03/23

Phase 1 Habitat survey legend

Habitat Areas	
	Lichen/bryophyte heath
	Montane heath/dwarf herb
	Broadleaved woodland - plantation
	Dry heath/acid grassland
	Coniferous woodland - semi-natural
	Coniferous woodland - plantation
	Mixed woodland - semi-natural
	Mixed woodland - plantation
	Scrub - dense/continuous
	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Broadleaved woodland - recently felled
	Coniferous woodland - recently felled
	Mixed woodland - recently felled
	Acid grassland - unimproved
	Acid grassland - semi-improved
	Neutral grassland - unimproved
	Neutral grassland - semi-improved
	Calcareous grassland - unimproved
	Calcareous grassland - semi-improved
	Improved grassland
	Marsh/marshy grassland
	Poor semi-improved grassland
	Bracken - continuous
	Bracken - scattered
	Upland species-rich ledges
	Other tall herb and fern - ruderal
	Other tall herb and fern - non ruderal
	Dry dwarf shrub heath - acid
	Dry dwarf shrub heath - basic
	Wet dwarf shrub heath

	Inland cliff - acid/neutral
	Inland cliff - basic
	Scree - acid/neutral
	Scree - basic
	Limestone pavement
	Other exposure - acid/neutral
	Other exposure - basic
	Cave
	Quarry
	Spoil
	Mine
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

Linear Habitats	
	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Running water - eutrophic
	Running water - mesotrophic
	Running water - oligotrophic
	Running water - dystrophic
	Running water - marl
	Running water - brackish
	Inland cliff
	Scree
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

Point Habitats	
	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees

HS2

HS2

Map Number EC-02 - Legend

Map Name EC-02 - Phase 1 Habitat Survey
Legend

HS2

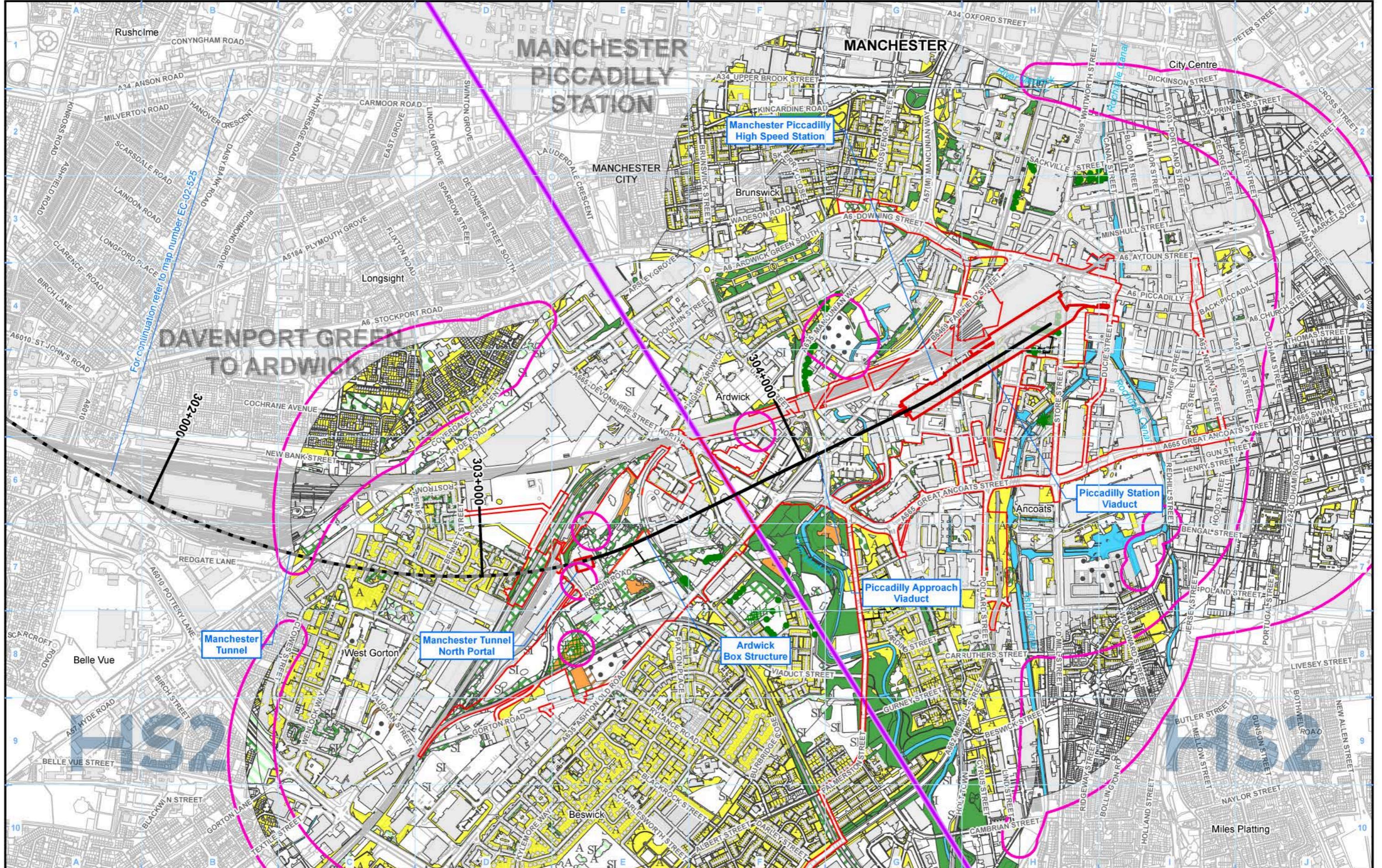
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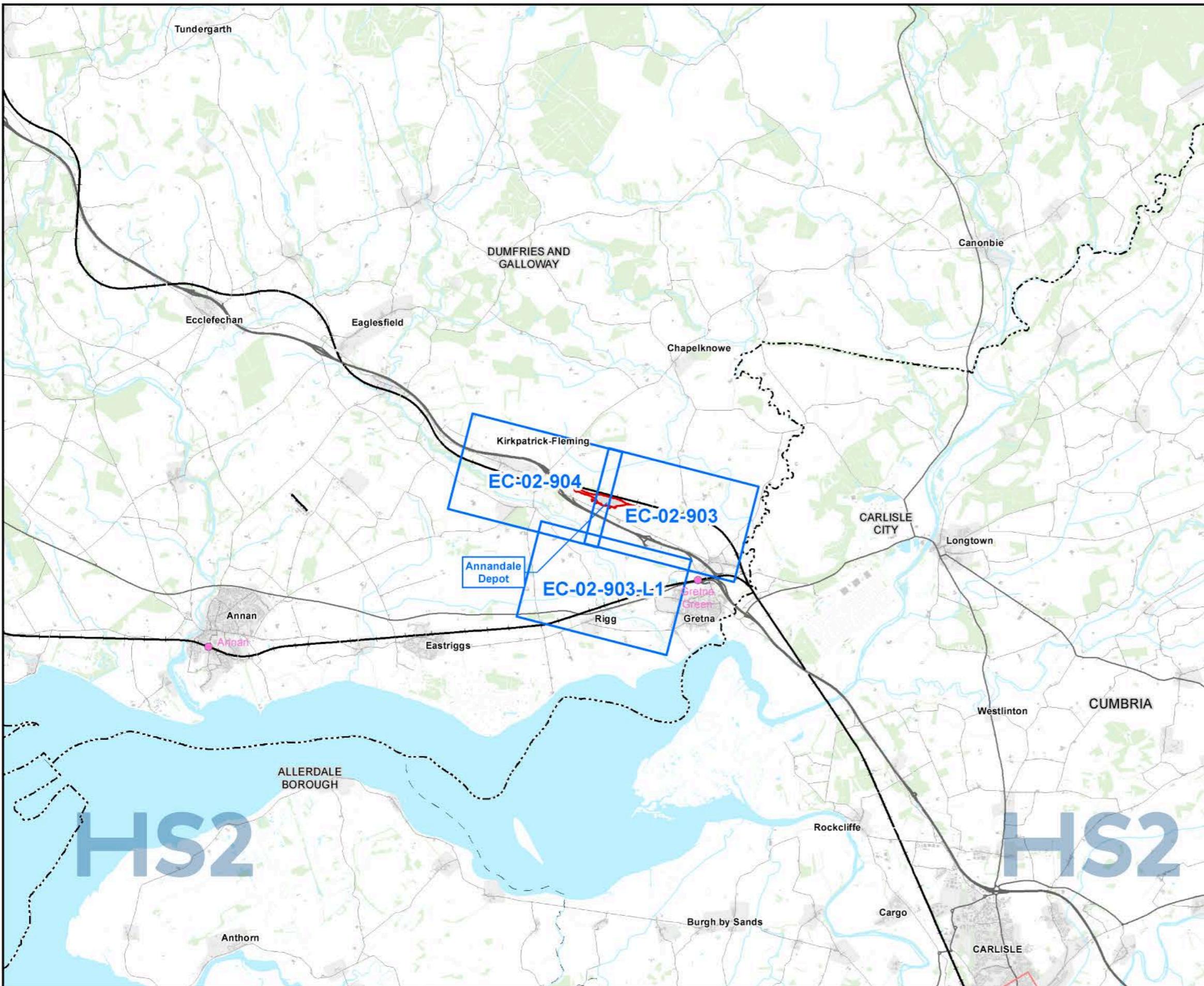
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Map Number	EC-02-526b	HS2
Map Name	Phase 1 Habitat (1:10,000) SES2 and AP2 ES	HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.
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Community Area MA08:	Manchester Piccadilly Station	© Crown copyright and database rights 2022 OS 100049190
Scale at A3: 1:10,000	0 100 200 300 400 Metres	Date: 29/03/23
Doc Number: 2PT27-MWJ-EV-MAP-M000-000801-P01		

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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-02-INDEX-ADEP
Map Name	
Index Map of: Phase 1 Habitat (1:10,000) SES2 and AP2 ES	
Off-route ADEP:	Annandale Depot



Map Series Information:

This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey, the information is based on available desk studies and interpretation of aerial photography.

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

Phase 1 Habitat survey legend

Habitat Areas		Linear Habitats		Point Habitats	
	Lichen/bryophyte heath		Inland cliff - acid/neutral		Scrub - scattered
	Broadleaved woodland - semi-natural		Inland cliff - basic		Broadleaved parkland/scattered trees
	Broadleaved woodland - plantation		Scree - acid/neutral		Coniferous parkland/scattered trees
	Coniferous woodland - semi-natural		Scree - basic		Coniferous parkland/scattered trees
	Coniferous woodland - plantation		Limestone pavement		Mixed parkland/scattered trees
	Mixed woodland - semi-natural		Other exposure - acid/neutral		Upland species-rich ledges
	Mixed woodland - plantation		Other exposure - basic		Marginal and inundation - marginal vegetation
	Scrub - dense/continuous		Cave		Running water
	Scrub - scattered		Quarry		E Running water - eutrophic
	Broadleaved parkland/scattered trees		Spoil		M Running water - mesotrophic
	Coniferous parkland/scattered trees		Mine		O Running water - oligotrophic
	Mixed parkland/scattered trees		Refuse-tip		D Running water - dystrophic
	Broadleaved woodland - recently felled		Cultivated/disturbed land - arable		C Running water - marl
	Coniferous woodland - recently felled		Cultivated/disturbed land - amenity grassland		B Running water - brackish
	Mixed woodland - recently felled		Cultivated/disturbed land - ephemeral/short perennial		W W Inland cliff
	Acid grassland - unimproved		Introduced shrub		XXX Scree
	Acid grassland - semi-improved		Intact hedge - native species-rich		W W Intact hedge - native species-rich
	Neutral grassland - unimproved		Intact hedge - species-poor		Intact hedge - species-poor
	Neutral grassland - semi-improved		Defunct hedge - native species-rich		W W Defunct hedge - native species-rich
	Calcareous grassland - unimproved		Defunct hedge - species-poor		Defunct hedge - species-poor
	Calcareous grassland - semi-improved		Hedge with trees - native species-rich		W W Hedge with trees - native species-rich
	Improved grassland		Hedge with trees - species-poor		Hedge with trees - species-poor
	Marsh/marshy grassland		Fence		Fence
	Poor semi-improved grassland		Wall		Wall
	Bracken - continuous		Dry ditch		Dry ditch
	Bracken - scattered		Boundary removed		Boundary removed
	Upland species-rich ledges		Earth bank		Earth bank
	Other tall herb and fern - ruderal		Caravan site		
	Other tall herb and fern - non ruderal		Buildings		
	Dry dwarf shrub heath - acid		Bare ground		
	Dry dwarf shrub heath - basic		Other habitat		
	Wet dwarf shrub heath				

HS2

HS2

Map Number
EC-02 - Legend

Map Name
EC-02 - Phase 1 Habitat Survey
Legend

HS2

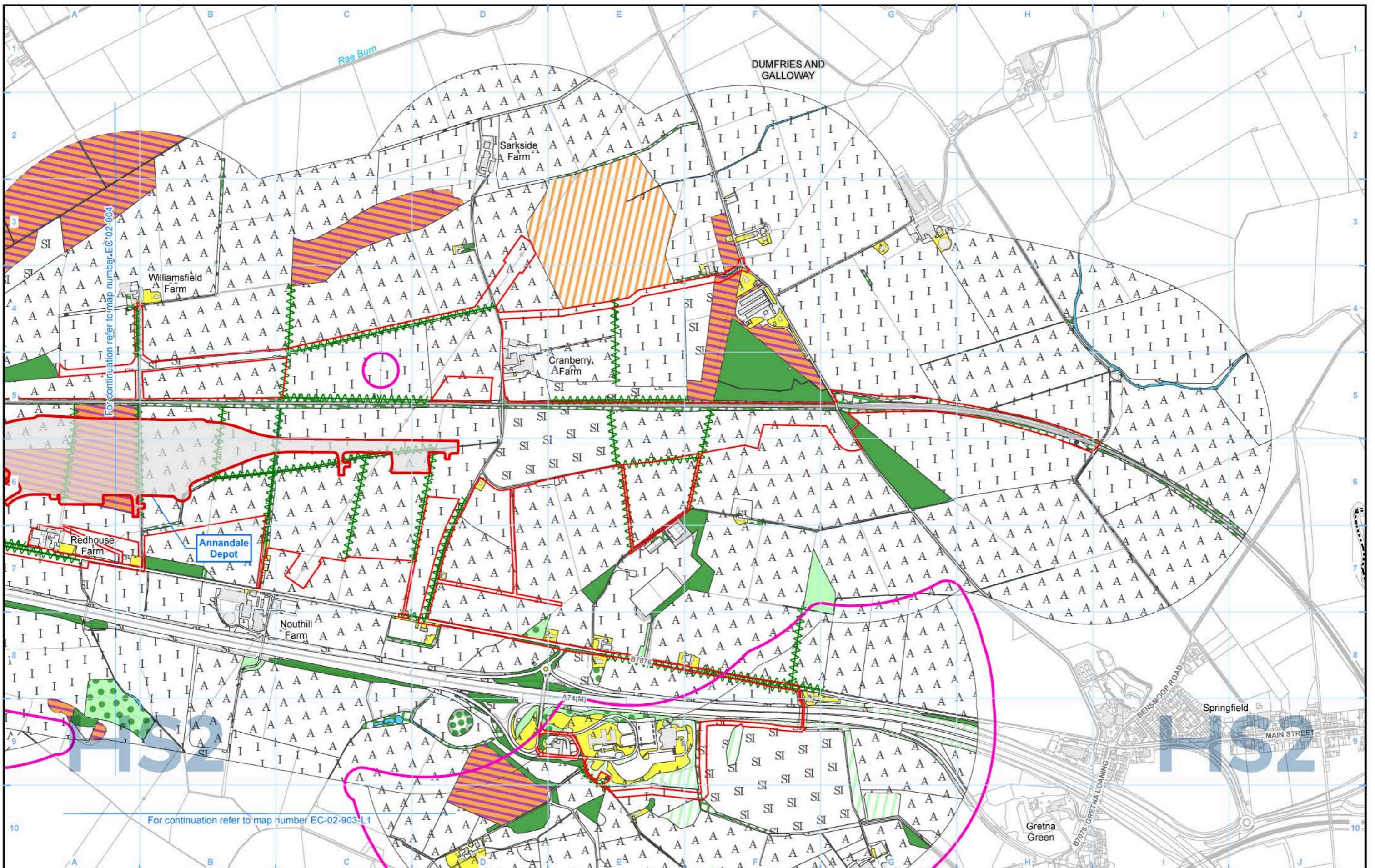
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Date: 29/03/23



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

For full legend please refer to EC-02 Legend page
■ Area contains new survey data

Map Number: **EC-02-903**
Map Name: **Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**
Off-route ADEP:
Annandale Depot



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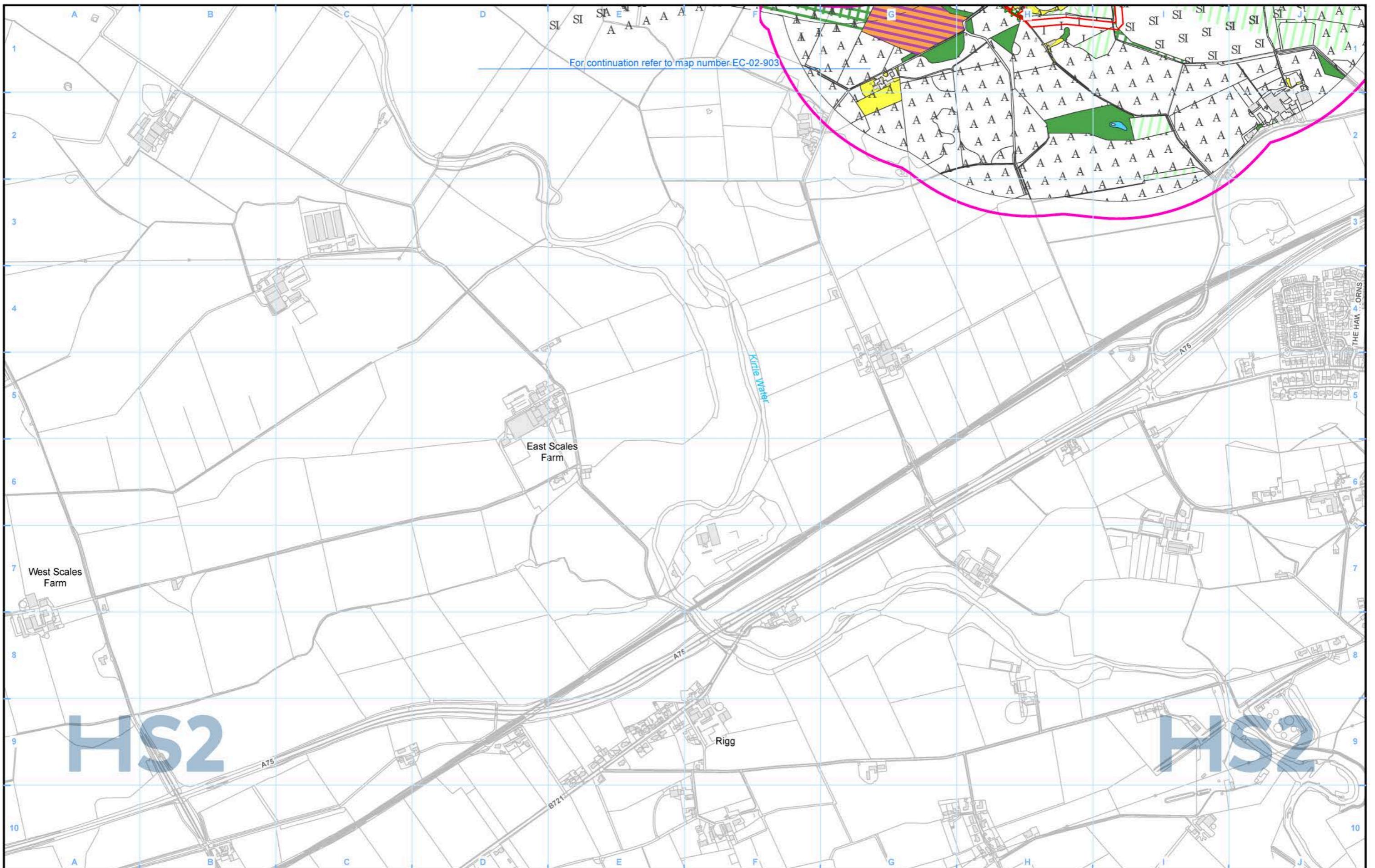


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Scale at A3: 1:10,000
0 100 200 300 400
Metres

Doc Number: 2PT27-MWJ-EV-MAP-M000-000804-P01

Date: 29/03/23


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

For full legend please refer to EC-02 Legend page

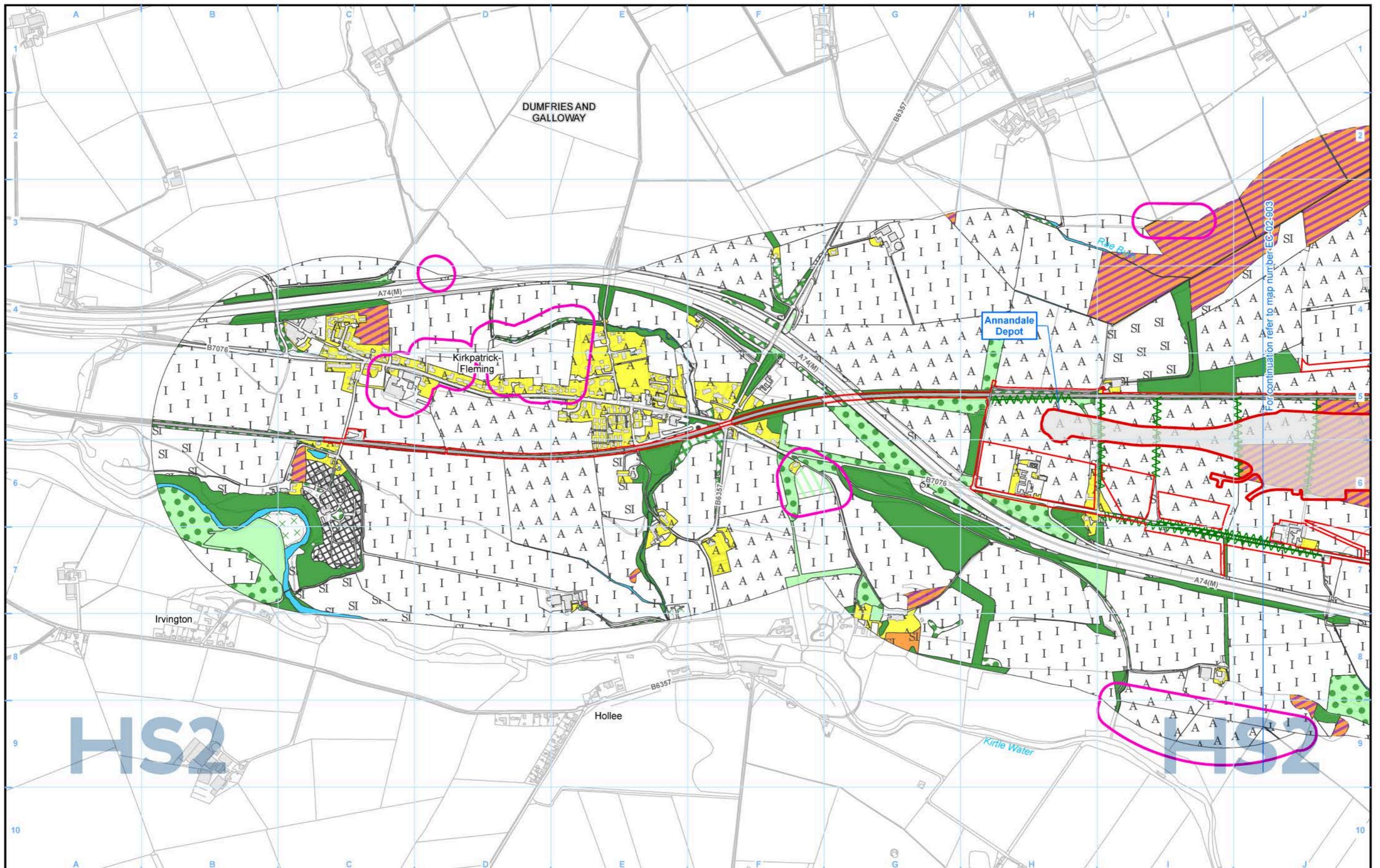
■ Area contains new survey data

Map Number
EC-02-903-L1
Map Name
**Phase 1 Habitat (1:10,000)
SES2 and AP2 ES**
**Off-route ADEP:
Annandale Depot**


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Doc Number: 2PT27-MWJ-EV-MAP-M000-002694-P01
Scale at A3: 1:10,000

Date: 29/03/23



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	

For full legend please refer to EC-02 Legend page

[Pink box] Area contains new survey data

Map Number	EC-02-904
Map Name	Phase 1 Habitat (1:10,000) SES2 and AP2 ES
Off-route ADEP: Annandale Depot	
Doc Number:	2PT27-MWJ-EV-MAP-M000-002672-P01



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0
100
200
300
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Metres

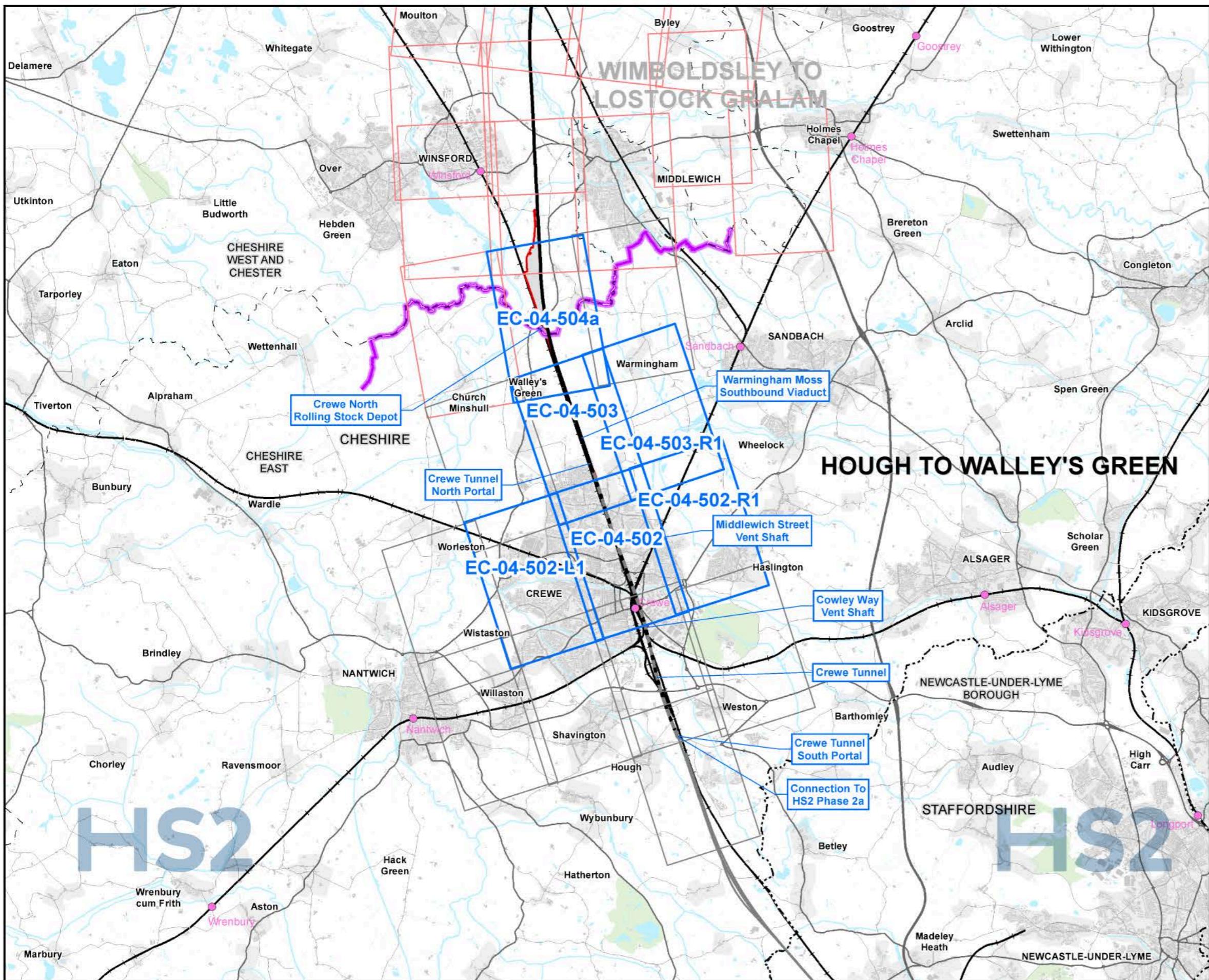
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Date: 29/03/23

High Speed Rail (Crewe – Manchester)

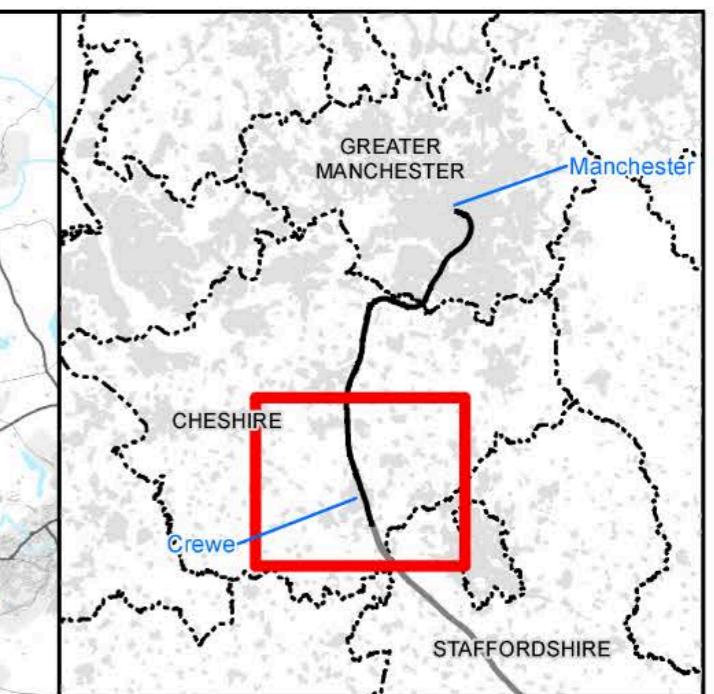
**Background information and data accompanying
Supplementary Environmental Statement 2 and
Additional Provision 2 Environmental Statement**

EC-04 – Amphibians



Main Map Legend	
Route in tunnel	Map sheets included in this community area
Route on surface	Map sheets included in this community area with no amendment
Depot, station, headhouse or portal building	Map sheets not included in this community area
Community area boundary	
Existing railway station	
County boundary	
District/Borough boundary	

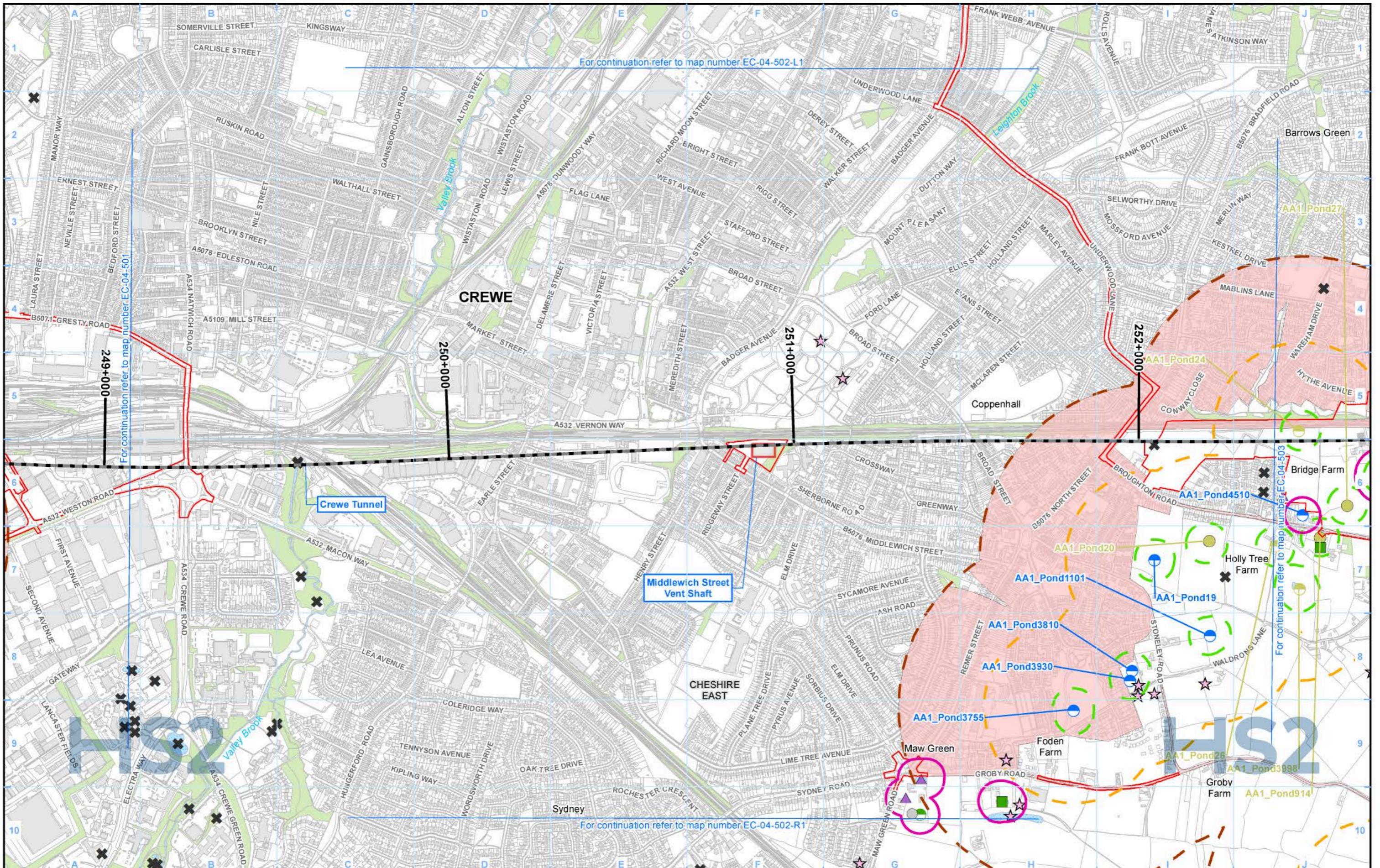
Map Number	EC-04-INDEX-MA01
Map Name	Index Map of: Amphibians SES2 and AP2 ES
Community Area MA01: Hough to Walley's Green	



Map Series Information:

This map series shows the results of amphibian surveys conducted to inform the environmental assessment. It principally details the results of great crested newt surveys conducted.

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



Map Number
EC-04-502

Map Name
Amphibians
SES2 and AP2 ES

Community Area MA01:
Hough to Walley's Green

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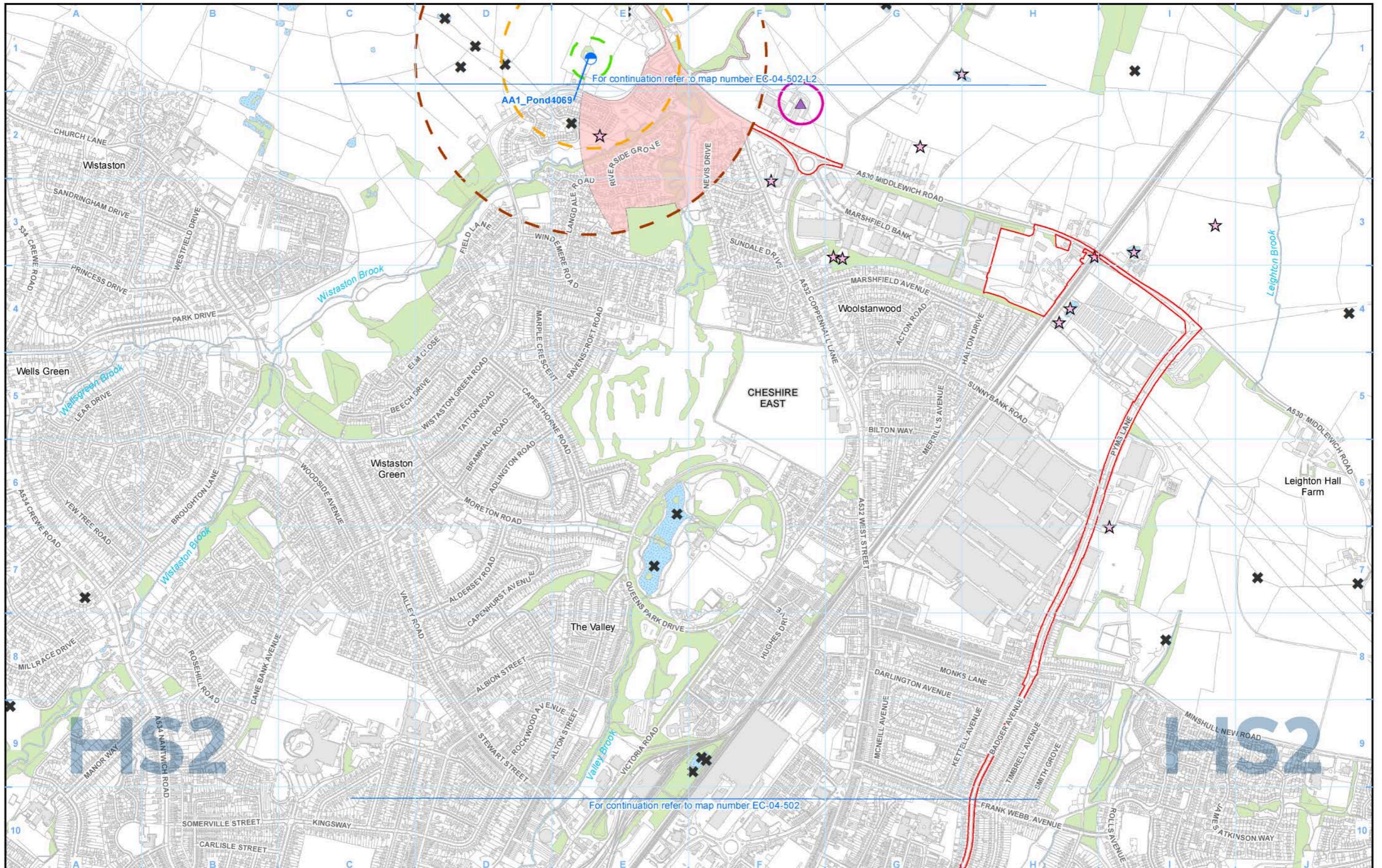
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0 100 200 300 400 Metres

Doc Number: 2PT27-MWJ-EV-MAP-M000-000948-P01

Date: 13/04/23



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)
- Area contains new survey data
- GCN confirmed present - no size class determined
- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped in - no access permission
- Scoped out - no survey required
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number
EC-04-502-L1
Map Name
Amphibians
SES2 and AP2 ES
Community Area MA01:
Hough to Walley's Green

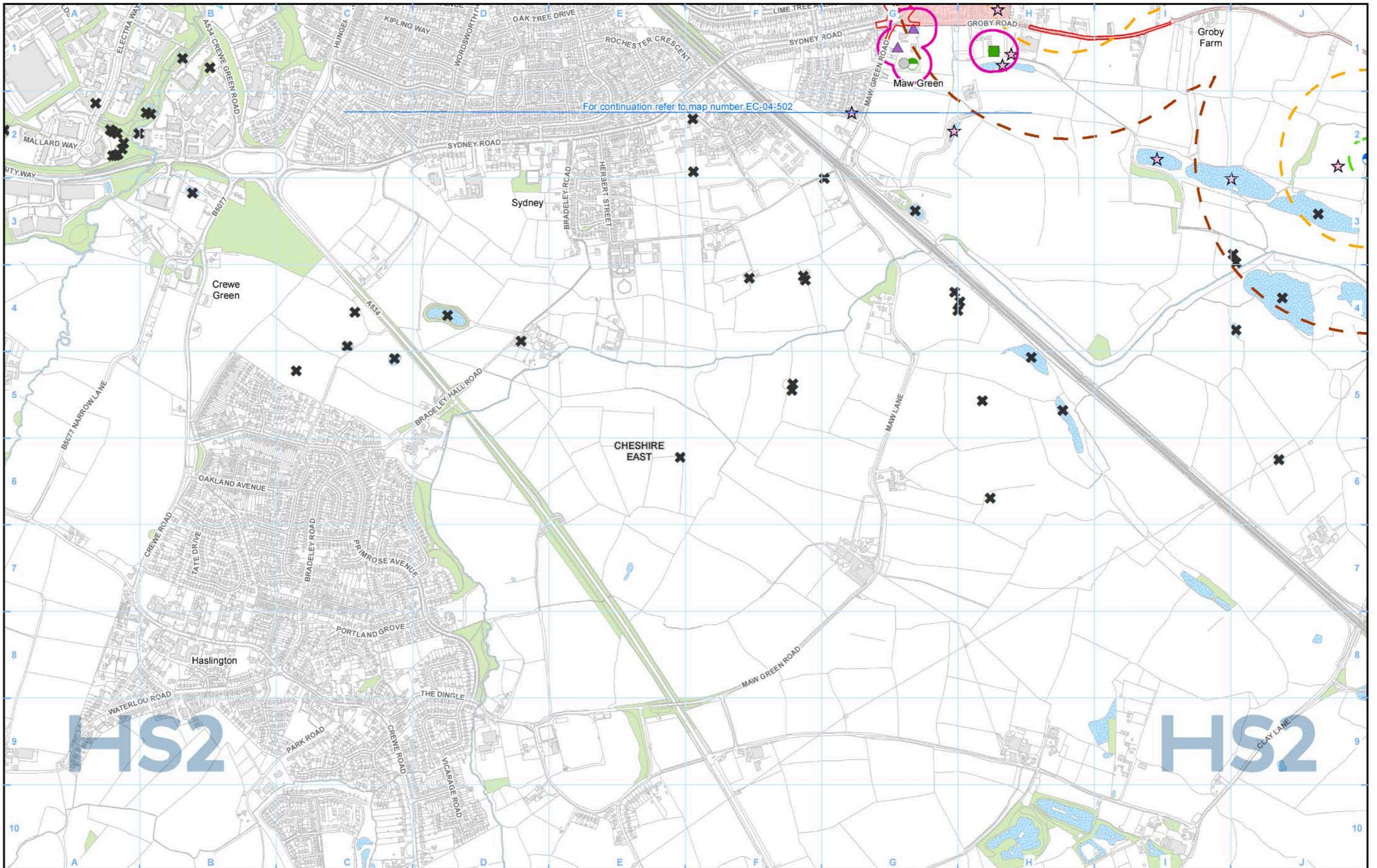


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Doc Number: 2PT27-MWJ-EV-MAP-M000-002961-P01
Date: 13/04/23



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)
- Area contains new survey data
- eDNA survey complete - GCN assumed absent

- GCN confirmed present - no size class determined
- Survey complete, GCN assumed absent
- Survey incomplete, no GCN found
- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped in - no access permission
- Scoped out - no survey required
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number	EC-04-502-R1
Map Name	Amphibians SES2 and AP2 ES
Community Area MA01: Hough to Walley's Green	
Doc Number:	2PT27-MWJ-EV-MAP-M000-002963-P01

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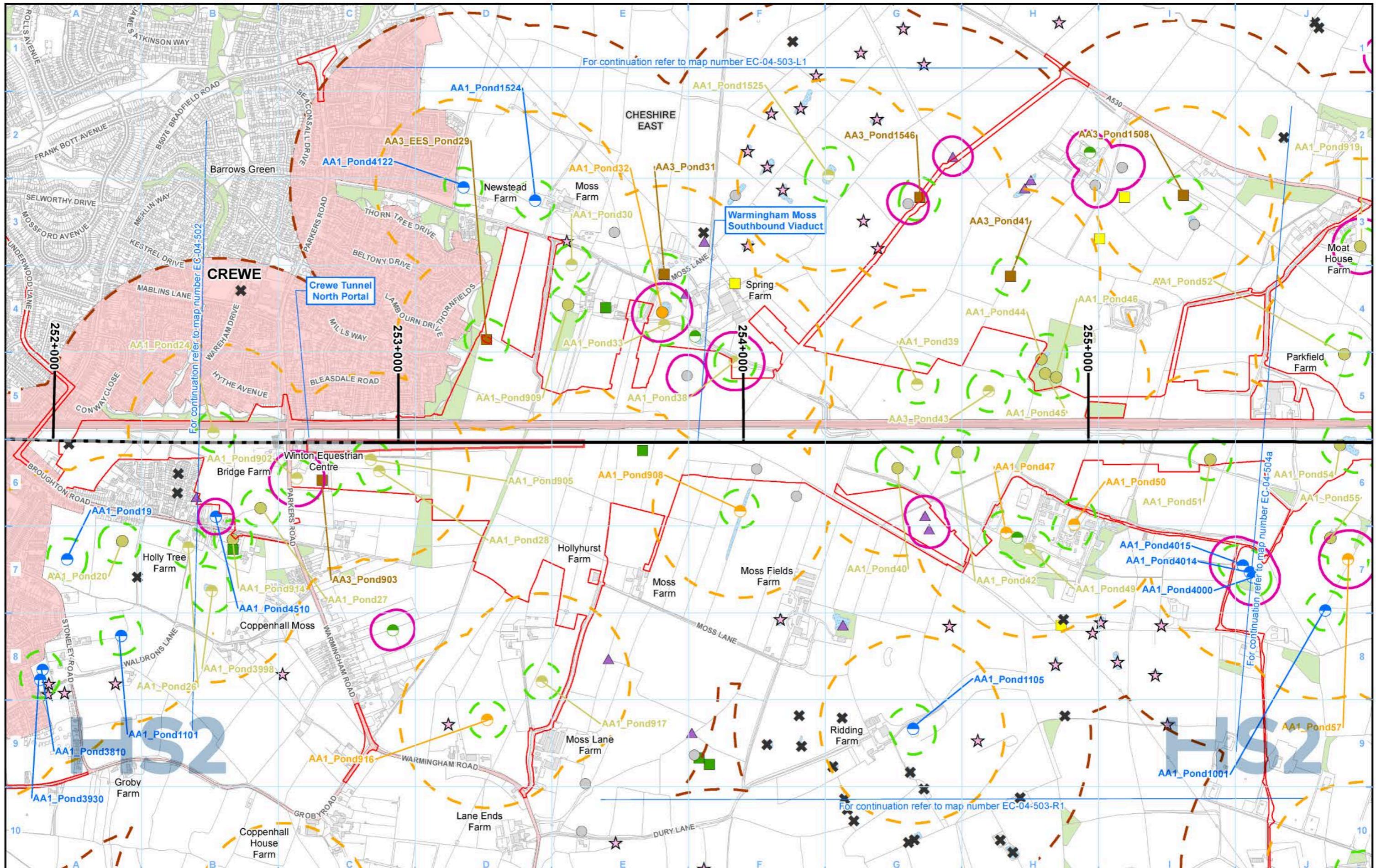
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Scale at A3: 1:10,000

0 100 200 300 400 Metres

Date: 13/04/23



Legend

- The legend includes the following entries:

 - 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)
 - Area contains new survey data
 - eDNA survey complete - result inconclusive

-

-  Survey incomplete,
no GCN found
 -  Scoped in - Habitat Suitability
Index (HSI)/walkover only
 -  Scoped in - no access
permission
 -  Scoped out - no survey
required

- 50m radius from all water bodies where presence of GCN is confirmed
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed

Areas isolated by significant barriers to amphibian movement

Map N

EC-04-503

Amphibians
SES2 and AP2 ES

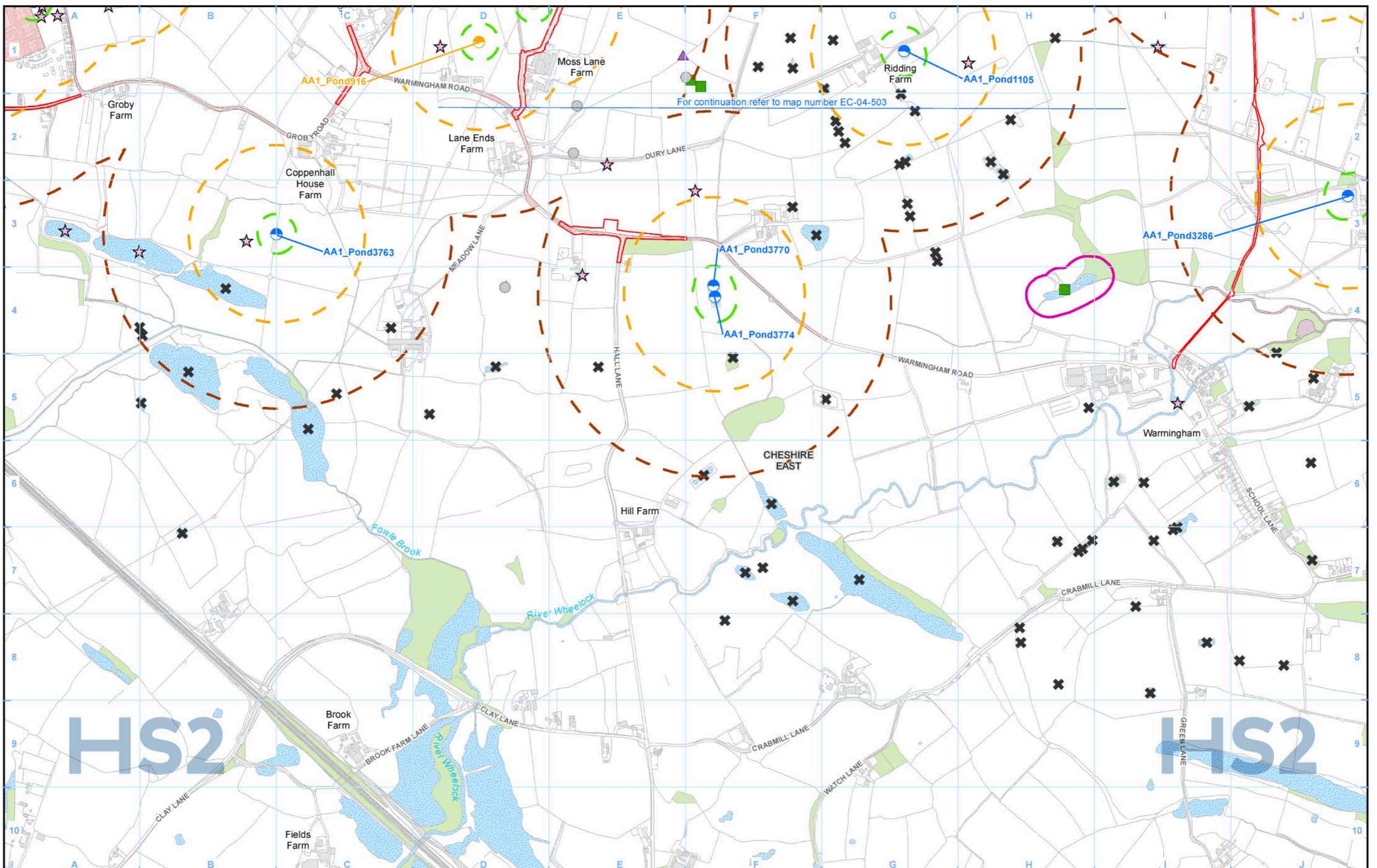
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Scale at A3: 1:10,000

Note: GCN = Great Crested Newts



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)
- Area contains new survey data
- eDNA survey complete - GCN assumed absent

- GCN present (less than 6 visits) - medium population (11 - 99 adults)
- GCN present (less than 6 visits) - small population (1 - 10 adults)
- GCN confirmed present - no size class determined
- Survey incomplete, no GCN found
- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped in - no access permission

- Scoped out - no survey required
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number	EC-04-503-R1
Map Name	Amphibians SES2 and AP2 ES
Community Area MA01:	Hough to Walley's Green
Doc Number:	2PT27-MWJ-EV-MAP-M000-002965-P01



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Scale at A3: 1:10,000

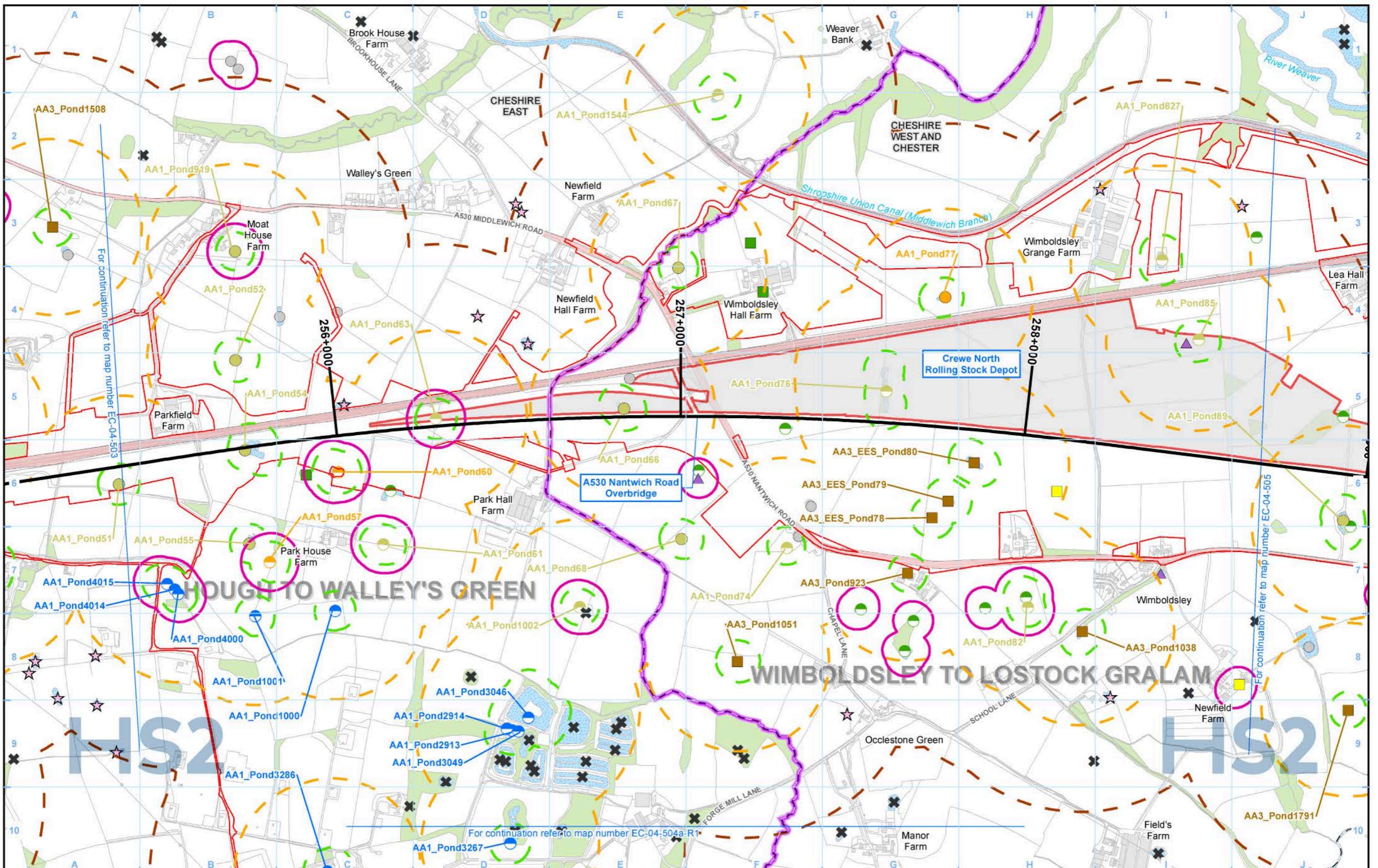
Metres

0 100 200 300 400

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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)
- Area contains new survey data
- eDNA survey complete - result inconclusive
- eDNA survey complete - GCN present
- eDNA survey complete - GCN assumed absent
- GCN present (less than 6 visits) - medium population (11 - 99 adults)
- GCN present (less than 6 visits) - small population (1 - 10 adults)
- GCN present (6 visits) - medium population (11 - 99 adults)
- GCN present (6 visits) - small population (1 - 10 adults)

- GCN present (less than 6 visits) - no GCN found
- Survey incomplete, no GCN found
- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped in - no access permission
- Scoped out - no survey required
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Map Number: EC-04-504a
Map Name: Amphibians SES2 and AP2 ES
Community Area MA01: Hough to Walley's Green



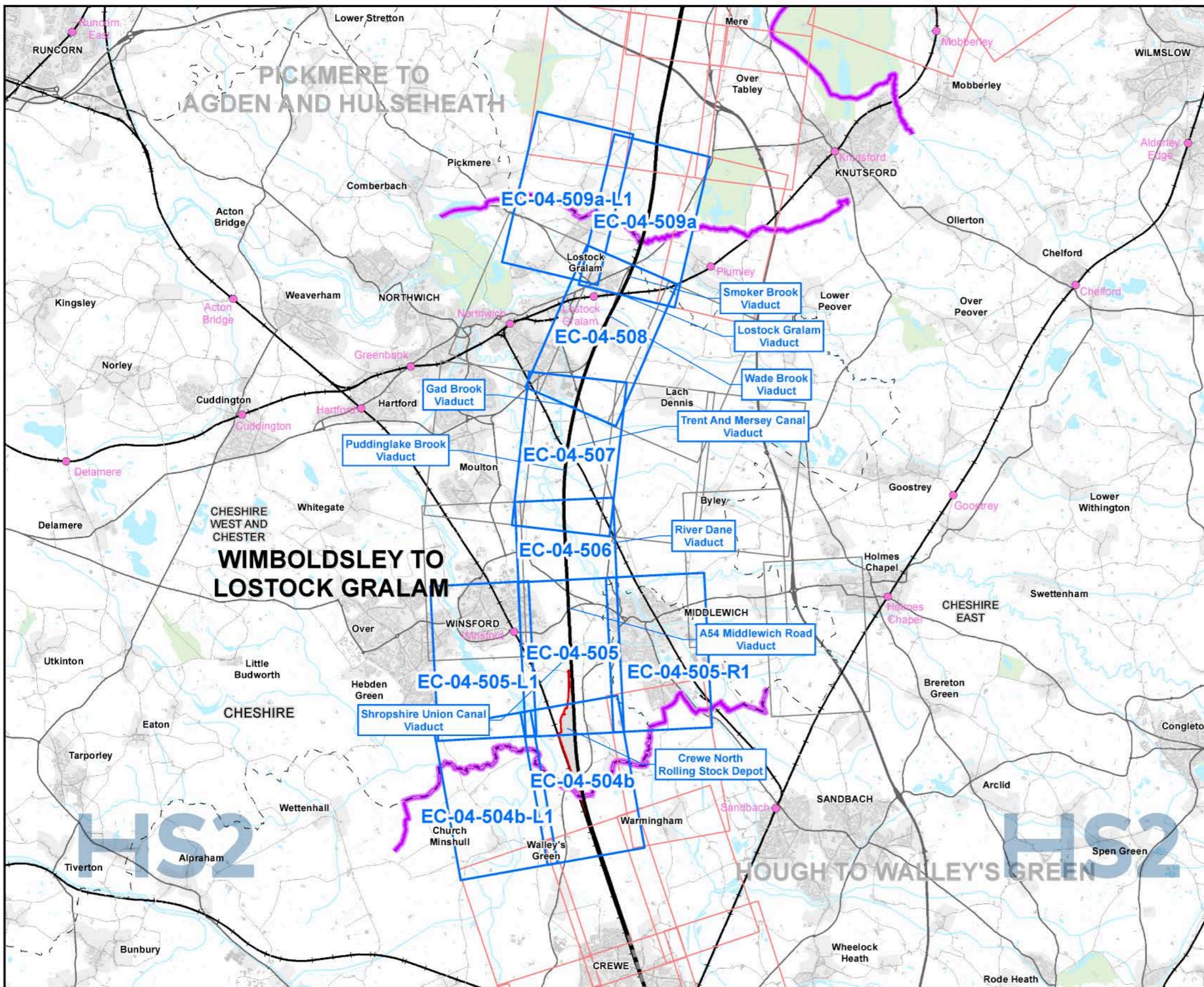
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 Date: 13/04/23



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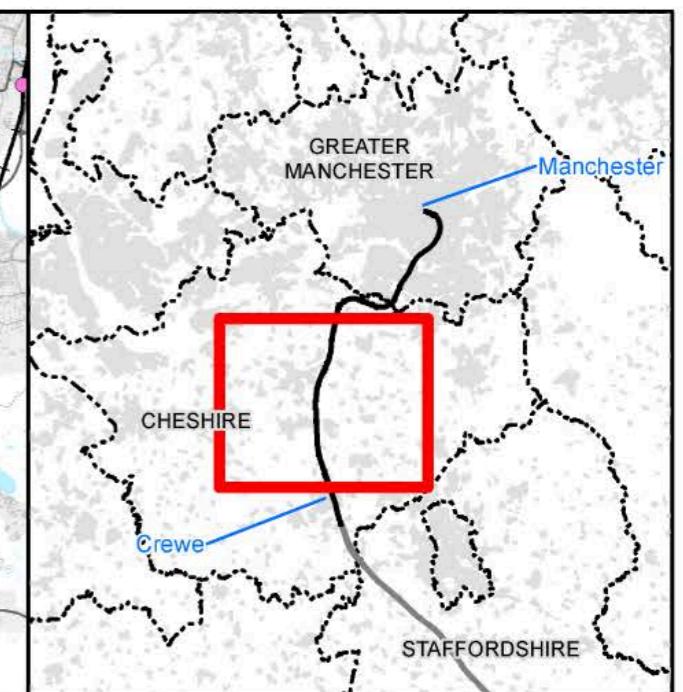


Main Map Legend	
Route in tunnel	Map sheets included in this community area
Route on surface	Map sheets included in this community area with no amendment
Depot, station, headhouse or portal building	Map sheets not included in this community area
Community area boundary	
Existing railway station	
County boundary	
District/Borough boundary	

Map Number: EC-04-INDEX-MA02

Index Map of:
Amphibians
SES2 and AP2 ES

Community Area MA02:
Wimboldsley to Lostock Gralam



Map Series Information:

This map series shows the results of amphibian surveys conducted to inform the environmental assessment. It principally details the results of great crested newt surveys conducted.

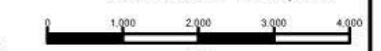
Note: Not all data layers in the legend are represented on every map.

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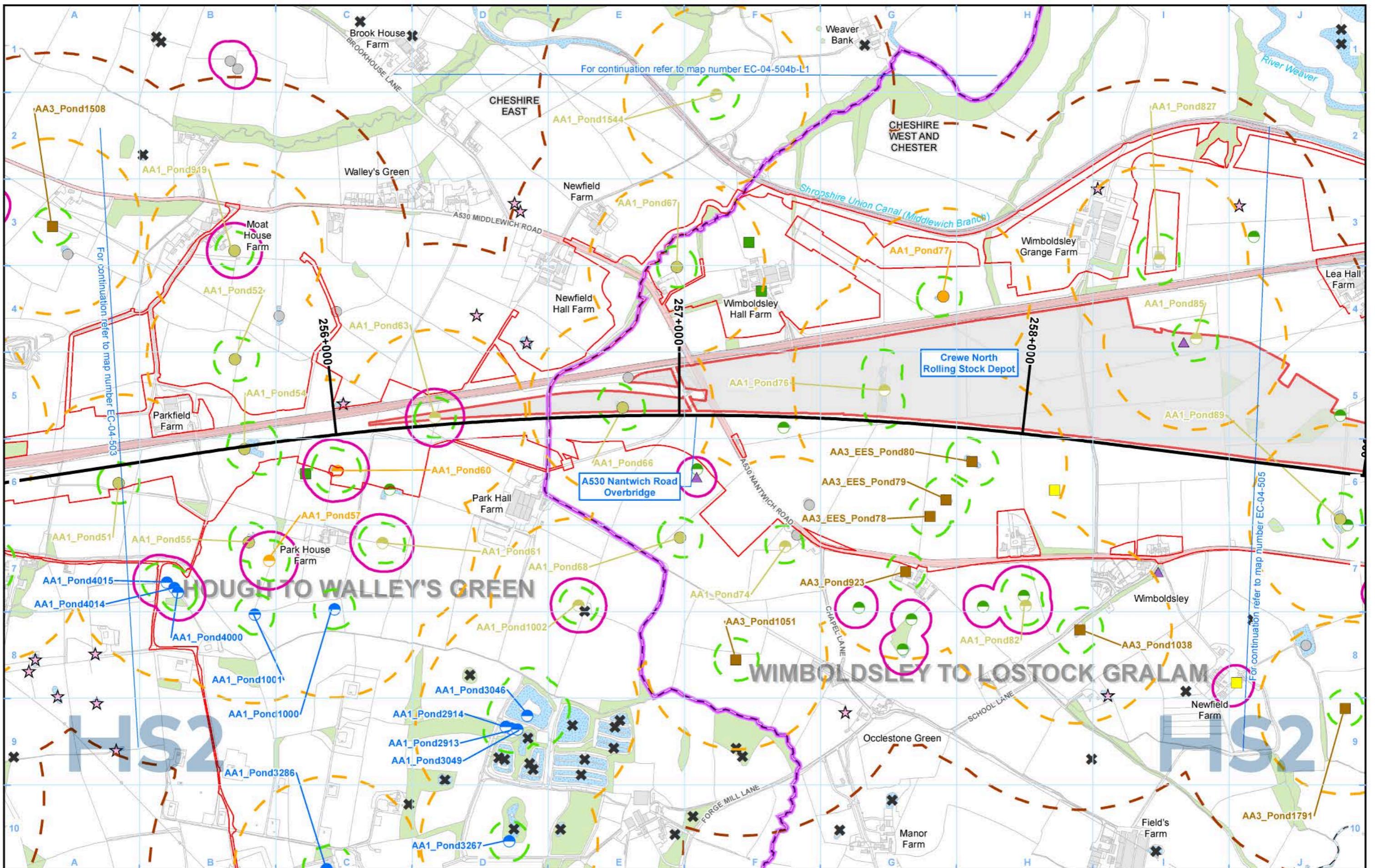
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Doc Number: 2PT27-MWJ-EV-MAP-M000-000983-P01

Date: 06/04/23



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)
- Area contains new survey data
- eDNA survey complete - result inconclusive
- eDNA survey complete - GCN present
- eDNA survey complete - GCN assumed absent
- GCN present (less than 6 visits) - medium population (11 - 99 adults)
- GCN present (less than 6 visits) - small population (1 - 10 adults)
- GCN present (6 visits) - medium population (11 - 99 adults)
- GCN present (6 visits) - small population (1 - 10 adults)

- GCN confirmed present - no size class determined
- Survey complete, GCN assumed absent
- Survey incomplete, no GCN found
- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped in - no access permission
- Scoped out - no survey required

- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Map Number

EC-04-504b

Map Name
Amphibians
SES2 and AP2 ES

Community Area MA02:
Wimboldsley to Lostock Gralam



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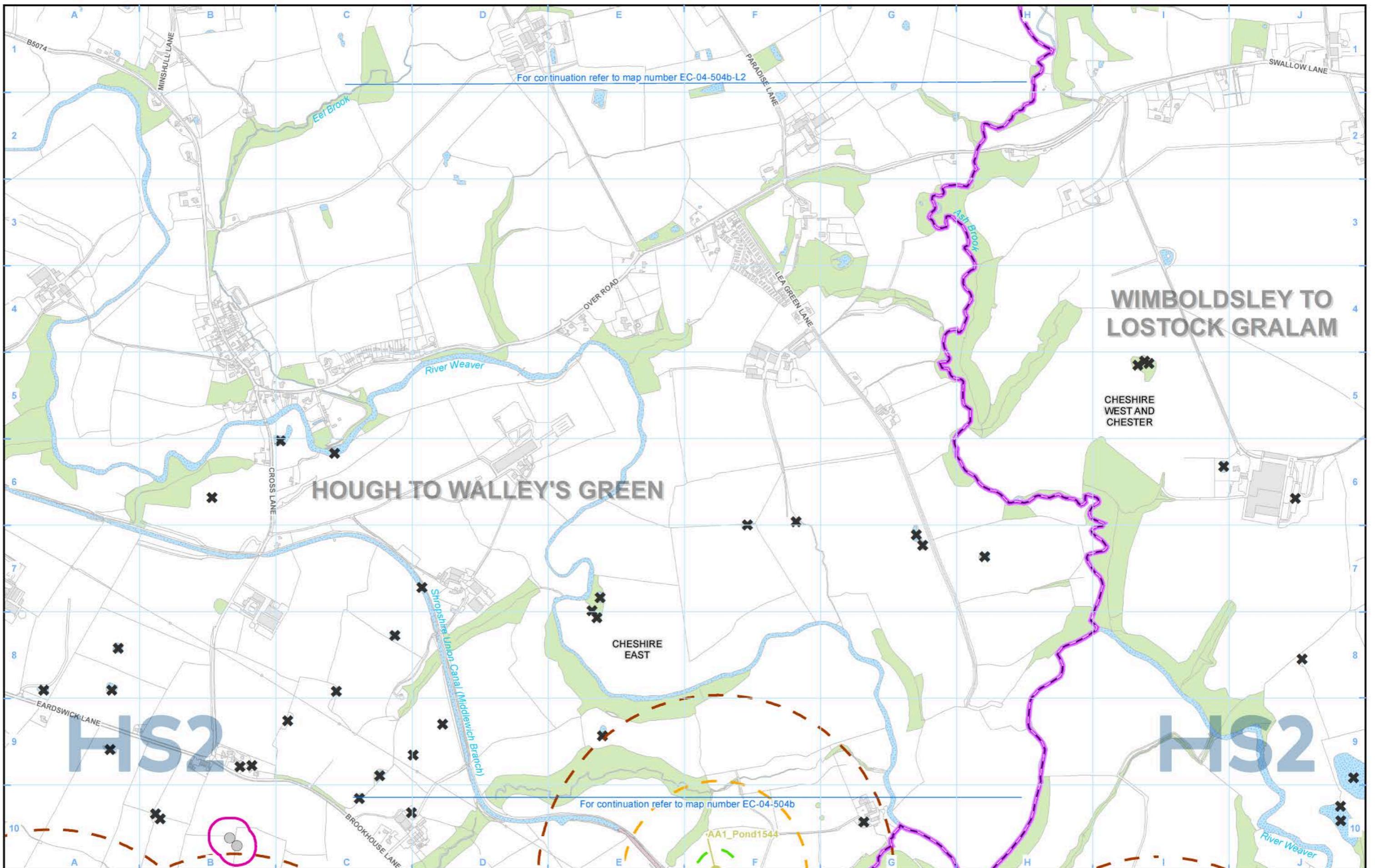
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Date: 13/04/23

Note: GCN = Great Crested Newts

Doc Number: 2PT27-MWJ-EV-MAP-M000-000951-P01



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)
- Area contains new survey data
- GCN present (less than 6 visits) - small population (1 - 10 adults)

- Survey incomplete, no GCN found
- Scoped out - no survey required
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement
- GCN present (less than 6 visits) - small population (1 - 10 adults)

Note: GCN = Great Crested Newts

Map Number	EC-04-504b-L1
Map Name	Amphibians SES2 and AP2 ES
Community Area MA02:	Wimboldsley to Lostock Gralam
Doc Number:	2PT27-MWJ-EV-MAP-M000-002967-P01

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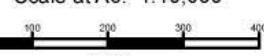
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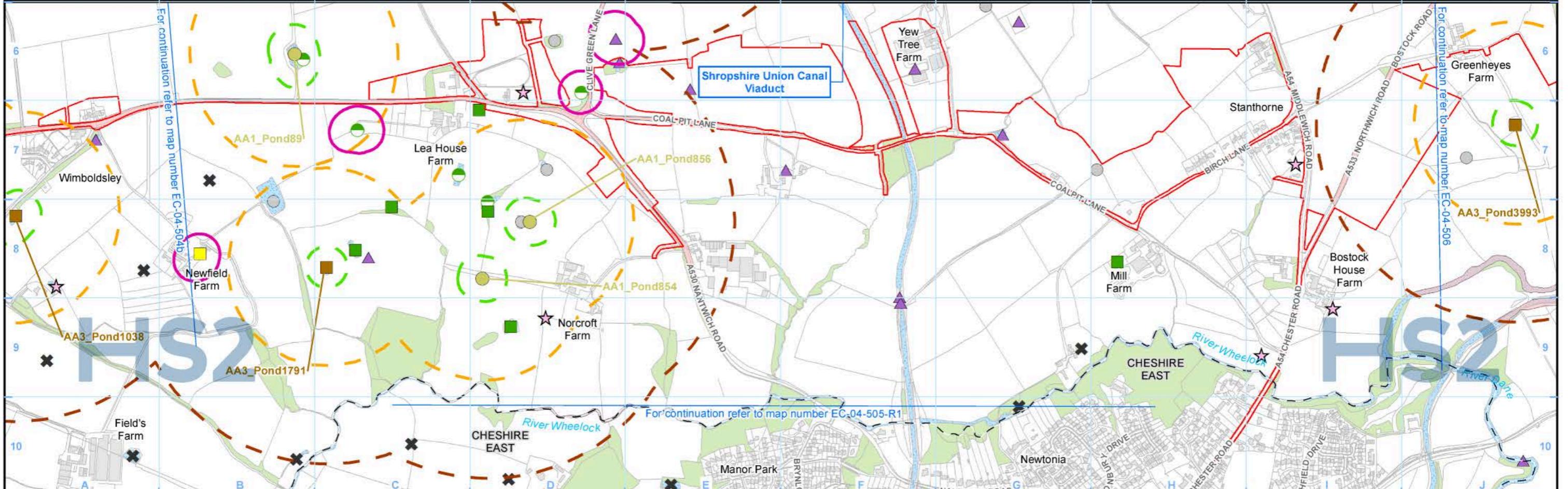
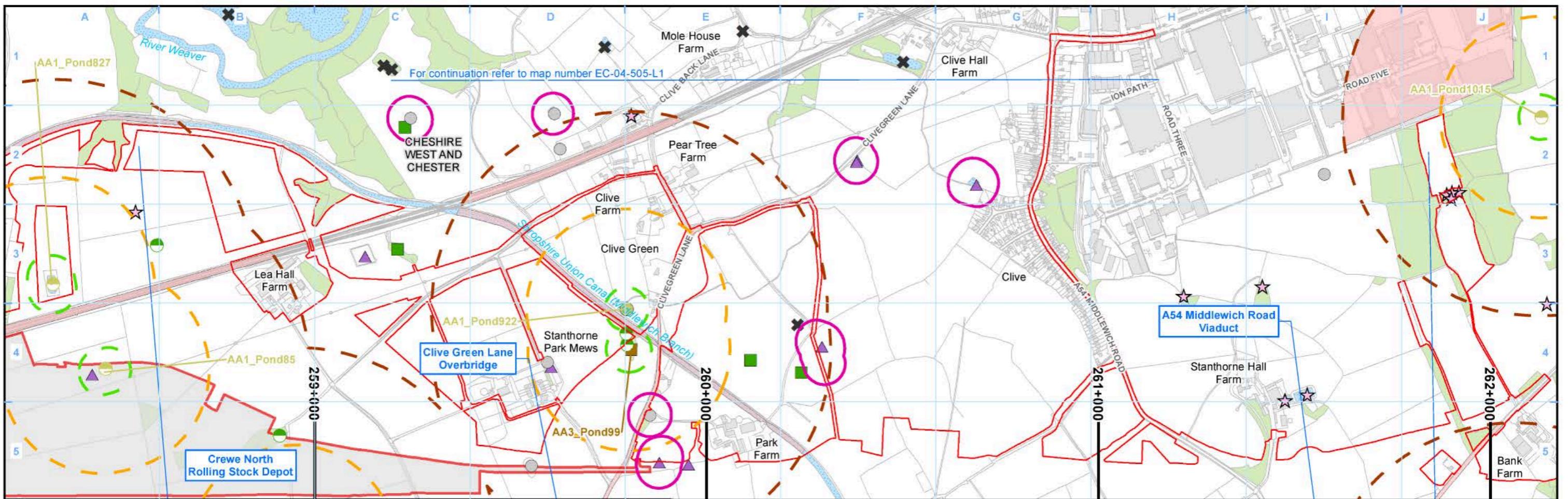
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Legend

- 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)
- Area contains new survey data
- eDNA survey complete - GCN present
- eDNA survey complete - GCN assumed absent
- eDNA survey complete - result inconclusive
- Survey complete, small population (1 - 10 adults)
- Survey complete, GCN present (6 visits) - small population (1 - 10 adults)
- Survey complete, GCN present (less than 6 visits) - small population (1 - 10 adults)
- Survey incomplete, no GCN found
- Scoped in - no access permission
- Scoped out - no survey required
- Scoped in - Habitat Suitability Index (HSI)/walkover only

50m radius from all water bodies where presence of GCN is confirmed

250m radius from all water bodies where presence of GCN is confirmed

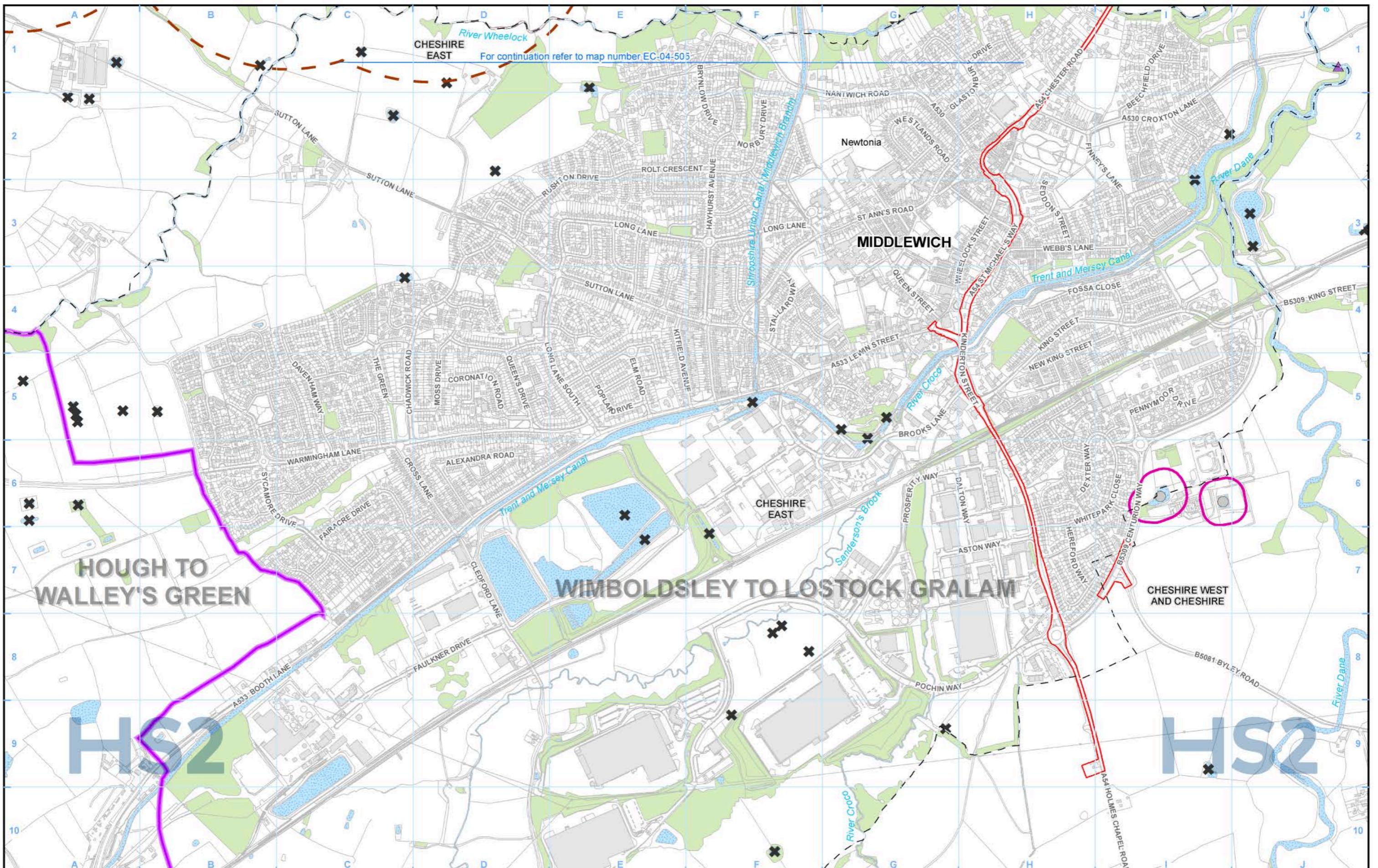
500m radius from all water bodies where presence of GCN is confirmed

Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number
EC-04-505
Map Name
Amphibians
SES2 and AP2 ES
Community Area MA02:
Wimboldsley to Lostock Gralam

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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)
- Area contains new survey data
- Survey incomplete, no GCN found
- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped out - no survey required
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number EC-04-505-R1

Map Name
Amphibians
SES2 and AP2 ES

Community Area MA02:
Wimboldsley to Lostock Gralam



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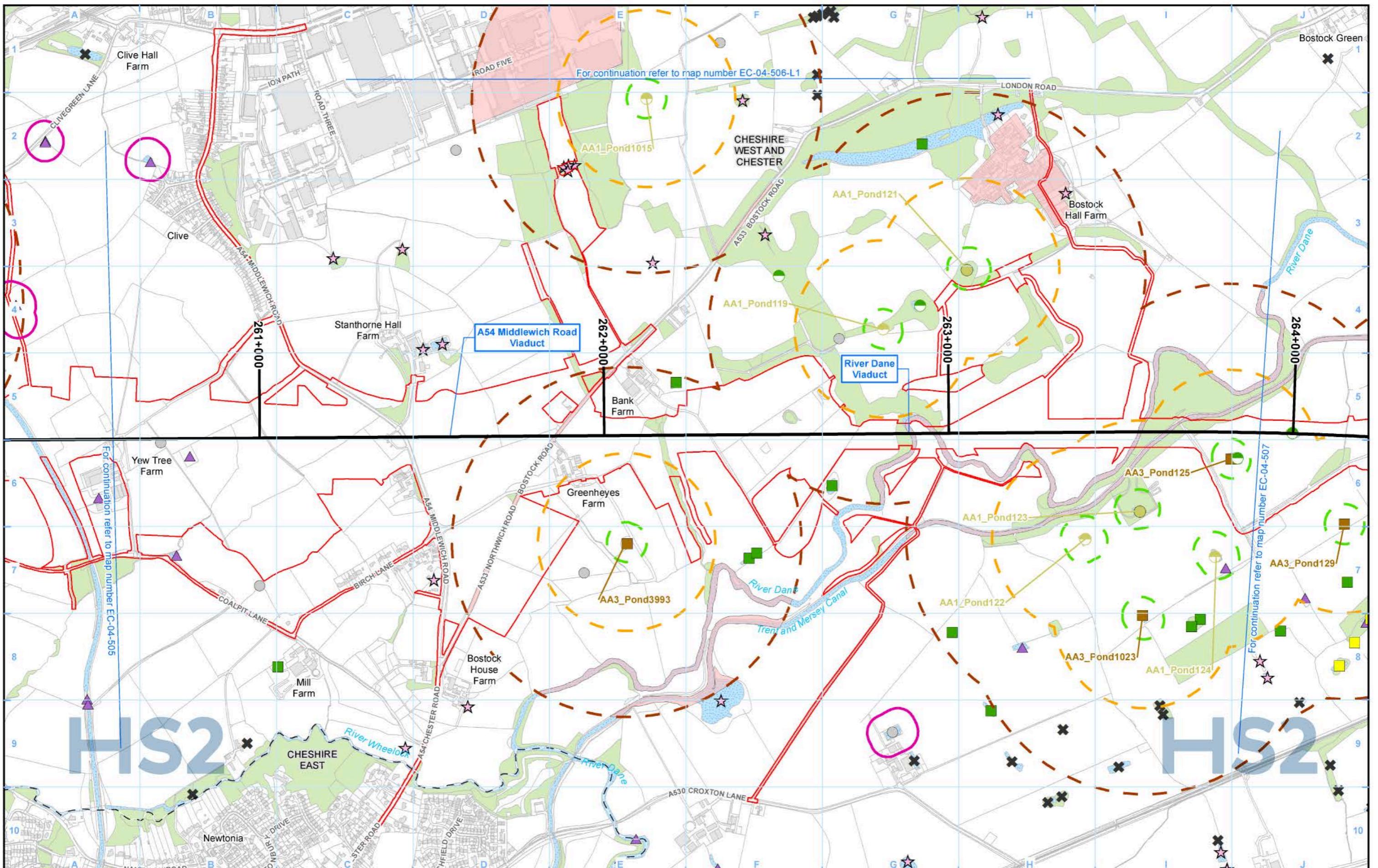


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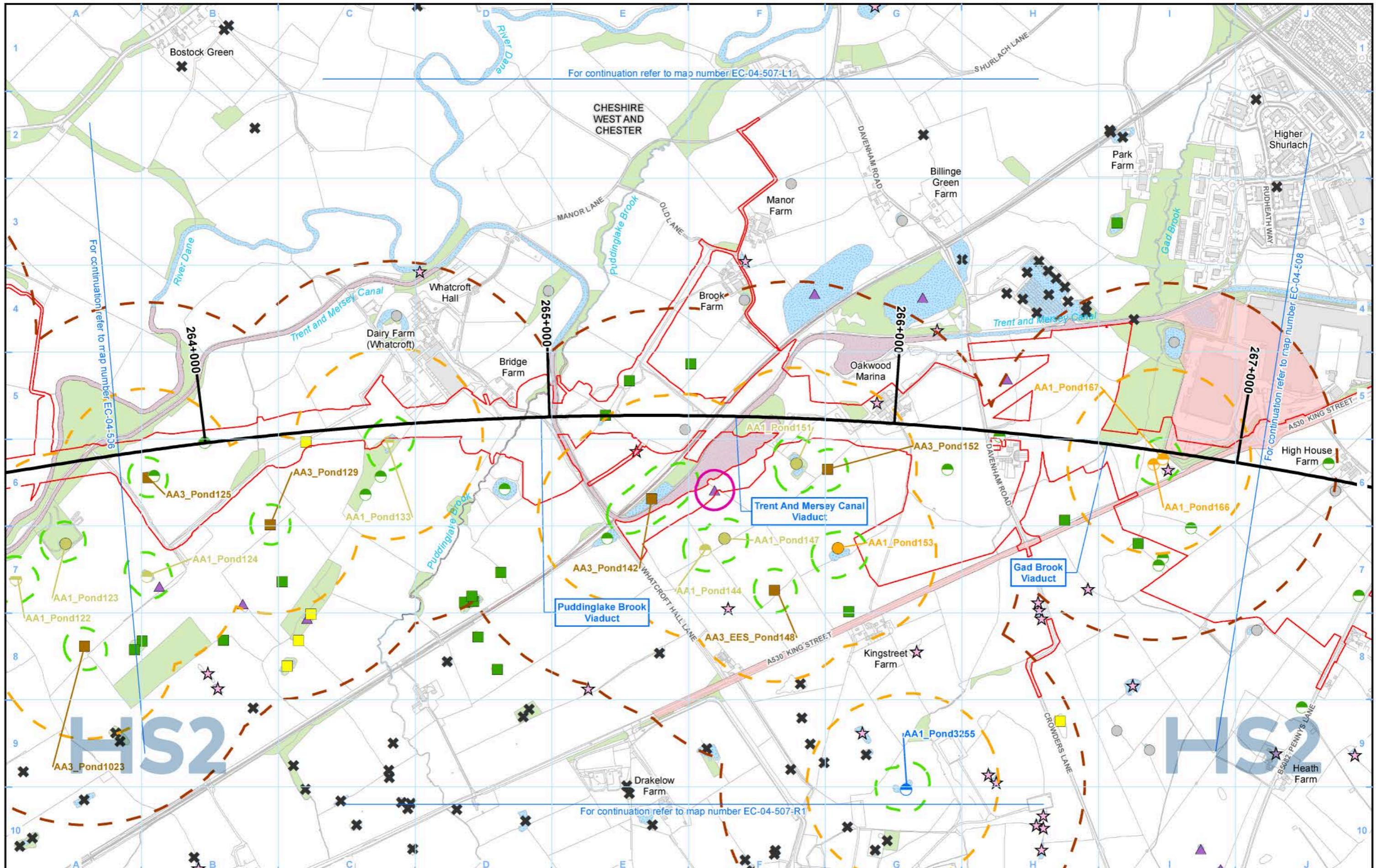
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<p>Map Number: EC-04-506</p> <p>Map Name: Amphibians SES2 and AP2 ES</p> <p>Community Area MA02: Wimboldsley to Lostock Gralam</p>	<p>HS2</p> <p>Scale at A3: 1:10,000</p> <p>0 100 200 300 400 Metres</p> <p>Date: 13/04/23</p>



Legend

- The legend includes the following entries:

 - 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)
 - Area contains new survey data
 - eDNA survey complete - result inconclusive

- eDNA survey complete -
GCN present
 - eDNA survey complete -
GCN assumed absent
 - GCN present (6 visits) -
medium population (11 - 99 adults)
 - GCN present (6 visits) -
small population (1 - 10 adults)

-  GCN present (less than 6 visits) - medium population (11 - 99 adults)
 -  GCN present (less than 6 visits) - small population (1 - 10 adults)
 -  GCN confirmed present - no size class determined
 -  Survey complete,
 -  GCN assumed absent

-  Survey incomplete,
no GCN found
 -  Scoped in - Habitat Suitability
Index (HSI)/walkover only
 -  Scoped in - no access
permission
 -  Scoped out - no survey
required

- 1 50m radius from all water bodies where presence of GCN is confirmed
 - 2 250m radius from all water bodies where presence of GCN is confirmed
 - 3 500m radius from all water bodies where presence of GCN is confirmed
 - 4 Areas isolated by significant barriers to amphibian movement

Map Num

EC-04-50

Amphibians
SES2 and AP2 ES

Community Area MA02:
Wimboldsley to Lostock Gralam

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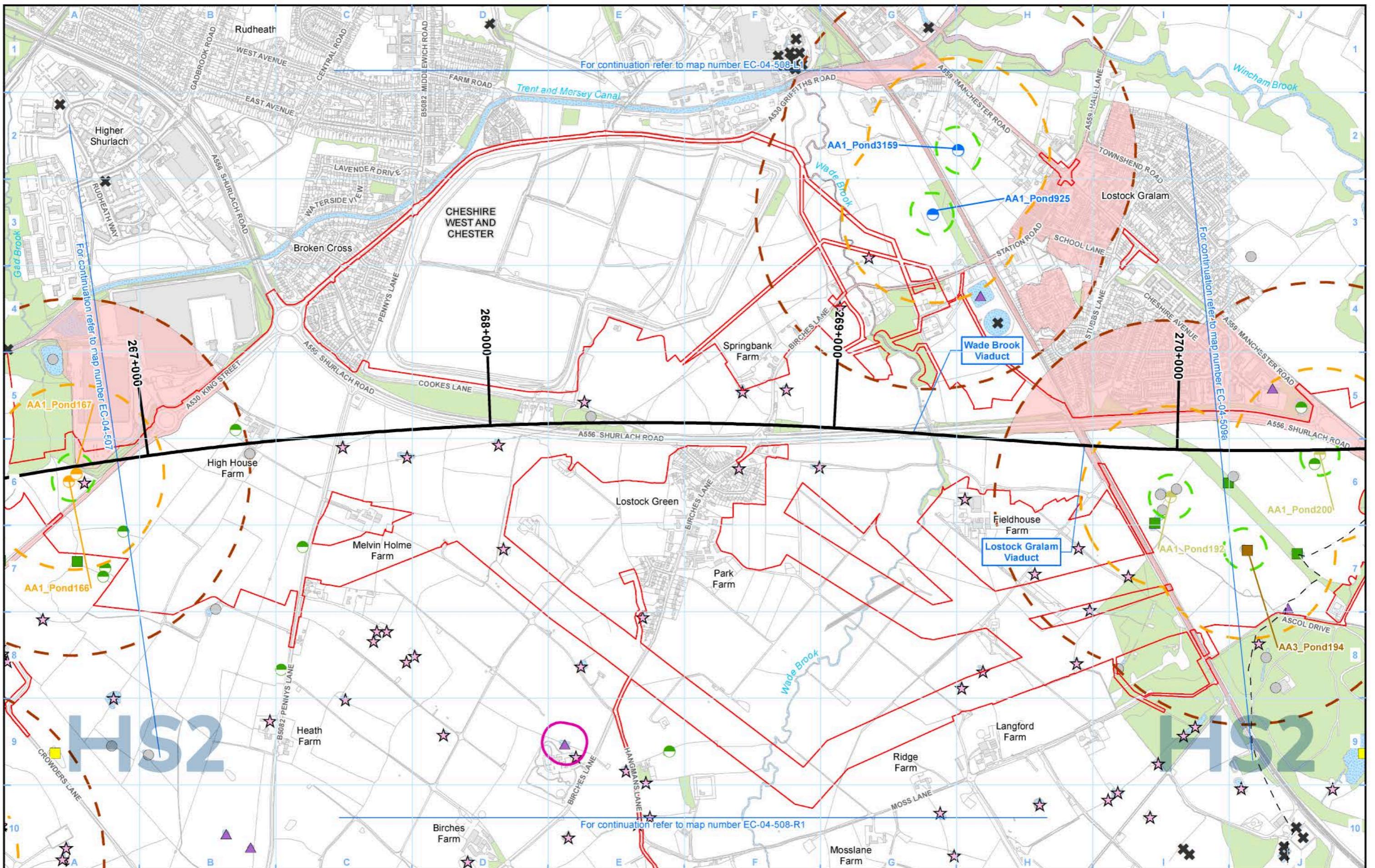
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inaccuracies, which arise from the
construction of this map after alteration,
omission or abbreviation or if it is issued in
a incomplete in any way.

Scale at A3: 1:10,000

2

Note: GCN = Great Crested Newts



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)
- Area contains new survey data
- eDNA survey complete - result inconclusive
- eDNA survey complete - GCN present
- eDNA survey complete - GCN assumed absent
- GCN present (less than 6 visits) - medium population (11 - 99 adults)
- GCN present (less than 6 visits) - small population (1 - 10 adults)
- Survey complete, no size class determined
- Survey incomplete, no GCN found
- Scoped in - no access permission
- Scoped out - no survey required
- Scoped in - Habitat Suitability Index (HSI)/walkover only

● GCN confirmed present - no size class determined
● Survey complete, GCN assumed absent
● Survey incomplete, no GCN found
★ Scoped in - no access permission
✖ Scoped out - no survey required
■ 50m radius from all water bodies where presence of GCN is confirmed
■ 1250m radius from all water bodies where presence of GCN is confirmed
■ 1500m radius from all water bodies where presence of GCN is confirmed
■ Areas isolated by significant barriers to amphibian movement
▲ HSI/walkover only
● Survey complete, no size class determined
● Survey incomplete, no GCN found
★ Scoped in - no access permission
✖ Scoped out - no survey required
■ 50m radius from all water bodies where presence of GCN is confirmed
■ 1250m radius from all water bodies where presence of GCN is confirmed
■ 1500m radius from all water bodies where presence of GCN is confirmed
■ Areas isolated by significant barriers to amphibian movement
▲ HSI/walkover only

Note: GCN = Great Crested Newts

Map Number	EC-04-508
Map Name	Amphibians SES2 and AP2 ES
Community Area MA02:	Wimboldsley to Lostock Gralam
Doc Number:	2PT27-MWJ-EV-MAP-M000-000955-P01

HS2

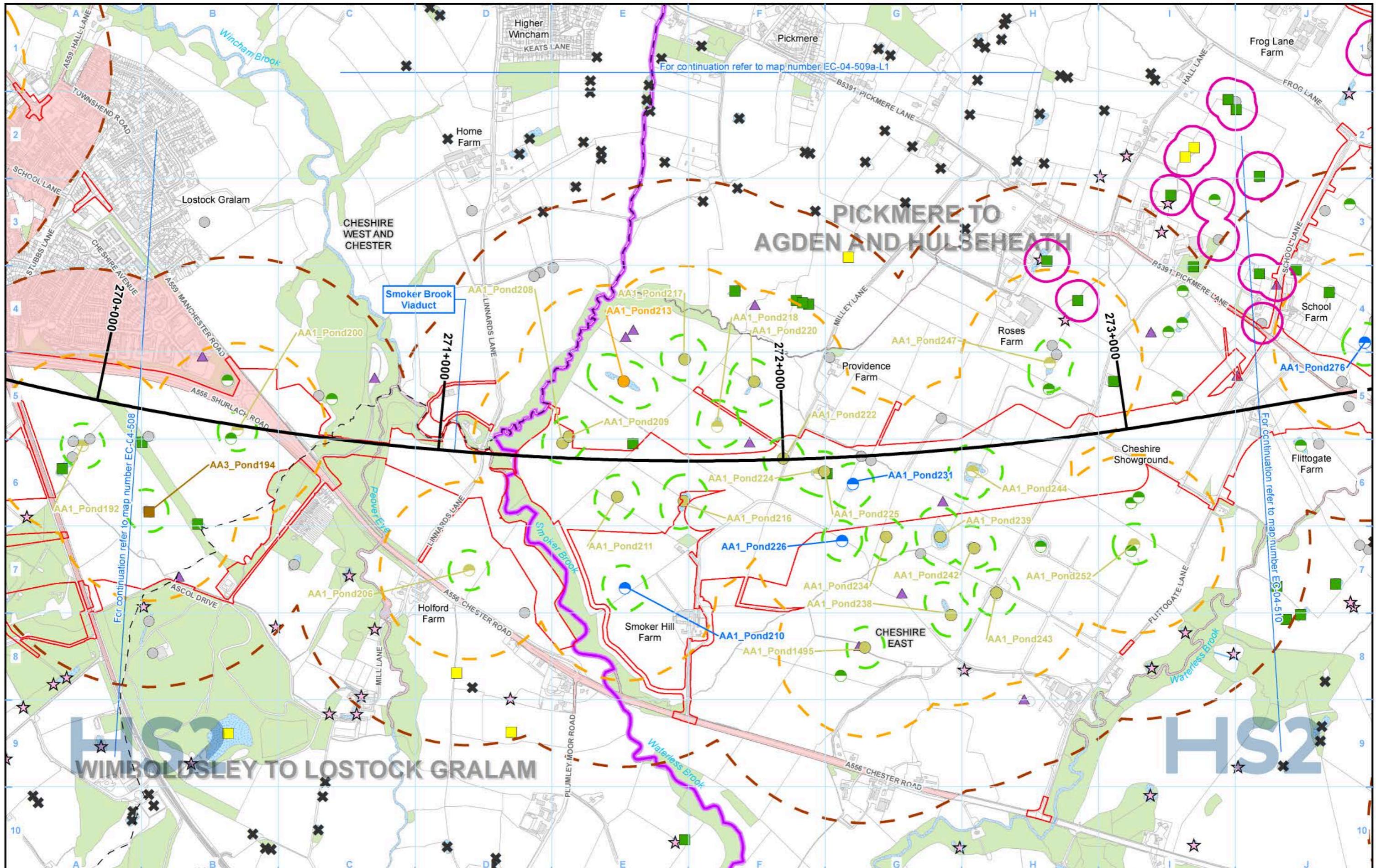
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Scale at A3: 1:10,000

0 100 200 300 400 Metres

Date: 13/04/23



A detailed map of the Wimboldsley to Lostock Gralam area. The map shows a network of roads, paths, and water bodies. A prominent blue dashed line represents the HCC route, starting from the bottom left and winding through the terrain. Several pink stars mark specific locations of interest along the route. A yellow square highlights a specific area in the center-left. The map also includes labels for 'WIMBOLDSLEY' and 'LOSTOCK GRALAM' at the bottom.

Map Number EC-04-509a

Map Name
Amphibians
SES2 and AP2 ES

Community Area MA02:
Wimboldsley to Lostock Gralam

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Scale at A3: 1:10,000

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)
- Area contains new survey data
- eDNA survey complete - result inconclusive

- Survey Status:**

 - eDNA survey complete - GCN present (Yellow)
 - eDNA survey complete - GCN assumed absent (Green)
 - GCN present (6 visits) - medium population (11 - 99 adults) (Orange)
 - GCN present (6 visits) - small population (1 - 10 adults) (Red)

GCN Presence:

 - GCN present (less than 6 visits) - small population (1 - 10 adults) (Yellow circle)
 - GCN confirmed present - no size class determined (Blue circle)
 - Survey complete, GCN assumed absent (Green circle)
 - Survey incomplete, no GCN found (Grey circle)

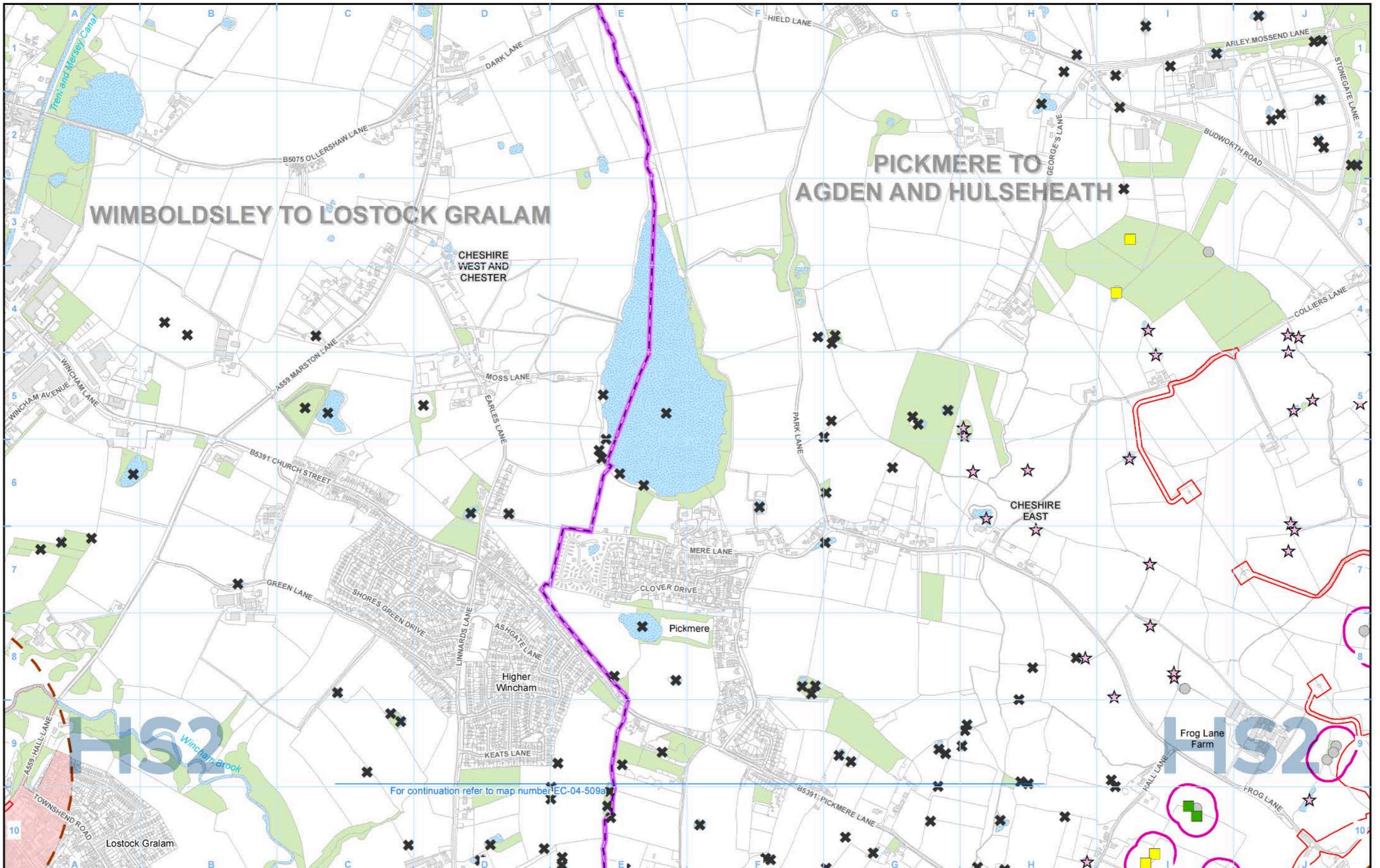
Habitat Suitability:

 - Scoped in - Habitat Suitability Index (HSI)/walkover only (Purple triangle)
 - Scoped in - no access permission (Purple star)
 - Scoped out - no survey required (Black cross)

Other:

 - 50m radius from all water bodies where presence of GCN is confirmed (Green bracket)
 - 250m radius from all water bodies where presence of GCN is confirmed (Yellow bracket)
 - 500m radius from all water bodies where presence of GCN is confirmed (Orange bracket)
 - Areas isolated by significant barriers to amphibian movement (Pink bracket)

Note: GCN = Great Crested Newt



Map Number
EC-04-509a-L1

Map Name
Amphibians
SES2 and AP2 ES

Note: GCN = Great Crested Newts



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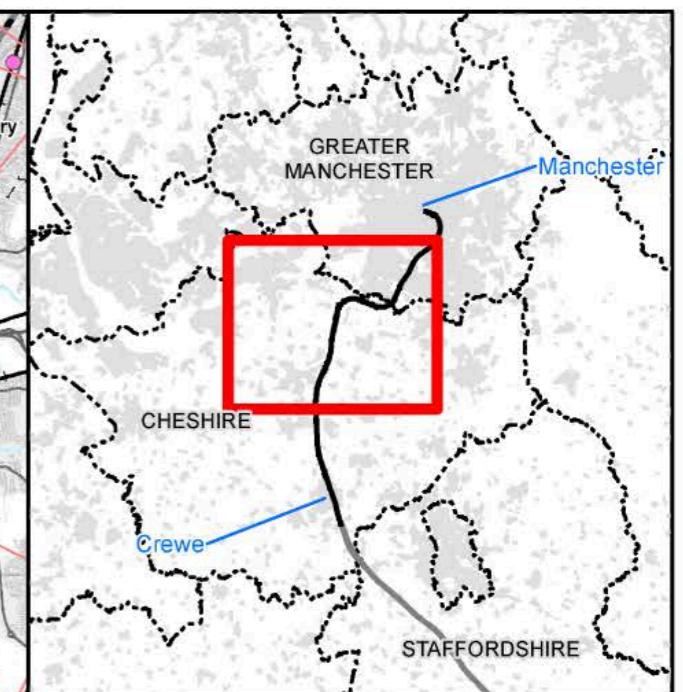
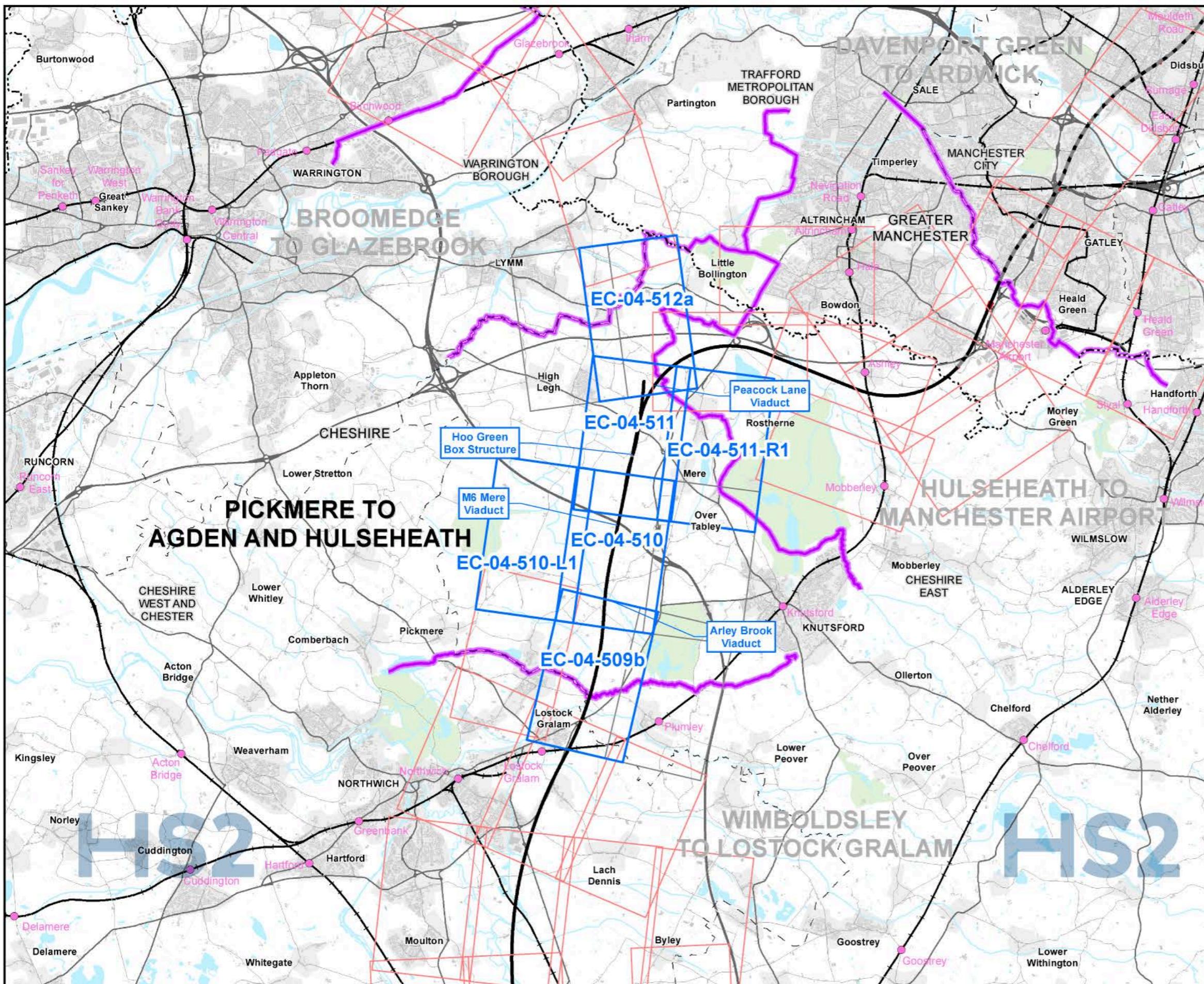
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Doc Number: 2PT27-MWJ-EV-MAP-M000-002976-P01

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Map Series Information:

This map series shows the results of amphibian surveys conducted to inform the environmental assessment. It principally details the results of great crested newt surveys conducted.

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

Map Number: EC-04-INDEX-MA03

Map Name: Index Map of:
Amphibians
SES2 and AP2 ES

Community Area MA03:
Pickmere to Agden and Hulseheath

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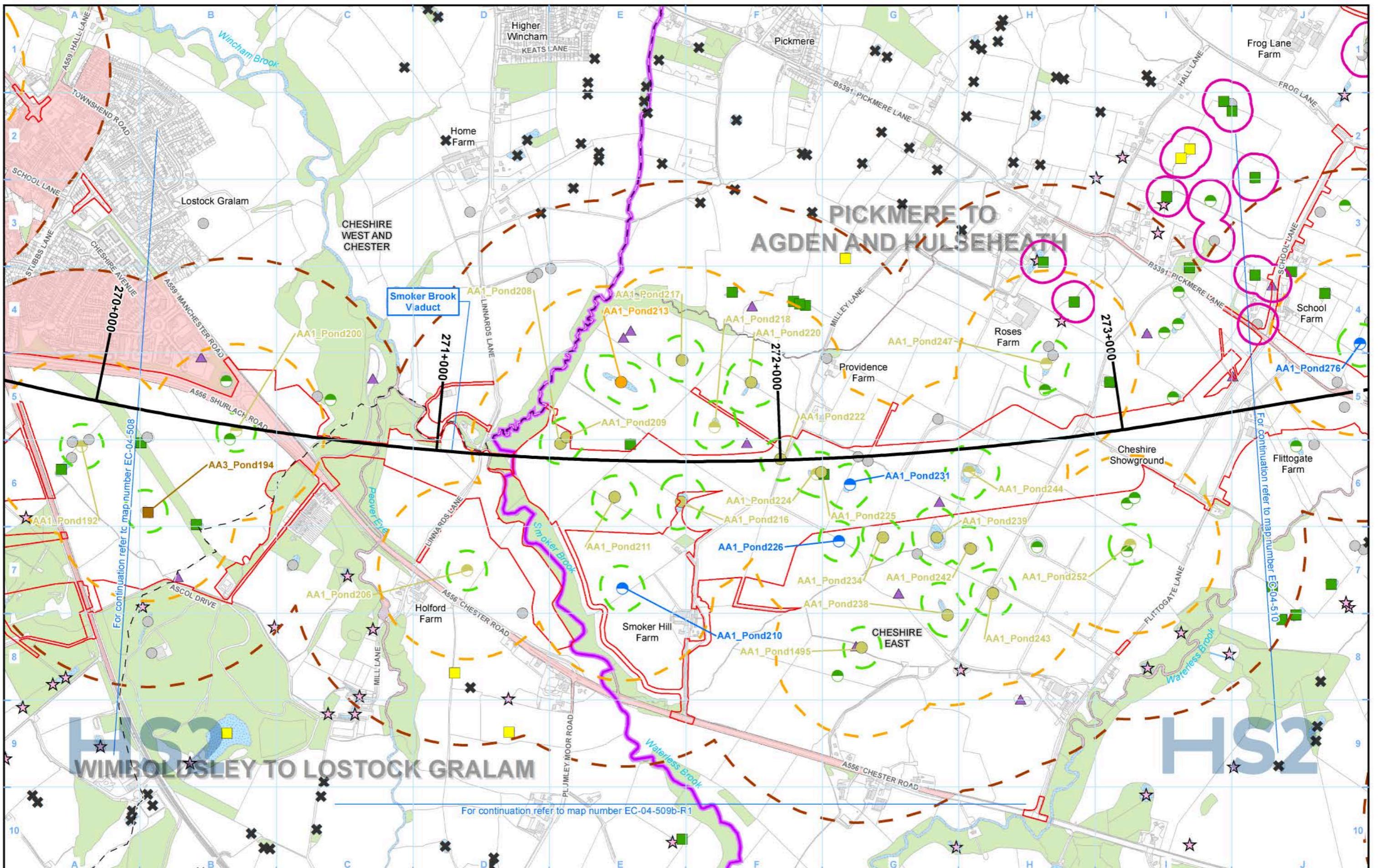
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Doc Number: 2PT27-MWJ-EV-MAP-M000-000984-P01

Scale at A3: 1:100,000

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

Date: 06/04/23



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)
- Area contains new survey data
- eDNA survey complete - GCN present
- eDNA survey complete - GCN assumed absent
- GCN present (6 visits) - medium population (11 - 99 adults)
- GCN present (6 visits) - small population (1 - 10 adults)
- eDNA survey complete - result inconclusive

Legend

- GCN present (less than 6 visits) - small population (1 - 10 adults)
- GCN confirmed present - no size class determined
- Survey complete, GCN assumed absent
- Survey incomplete, no GCN found
- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped in - no access permission
- Scoped out - no survey required

Note: GCN = Great Crested Newts

Map Number	EC-04-509b
Map Name	Amphibians SES2 and AP2 ES
Community Area MA03:	Pickmere to Agden and Hulseheath
Doc Number:	2PT27-MWJ-EV-MAP-M000-000957-P01



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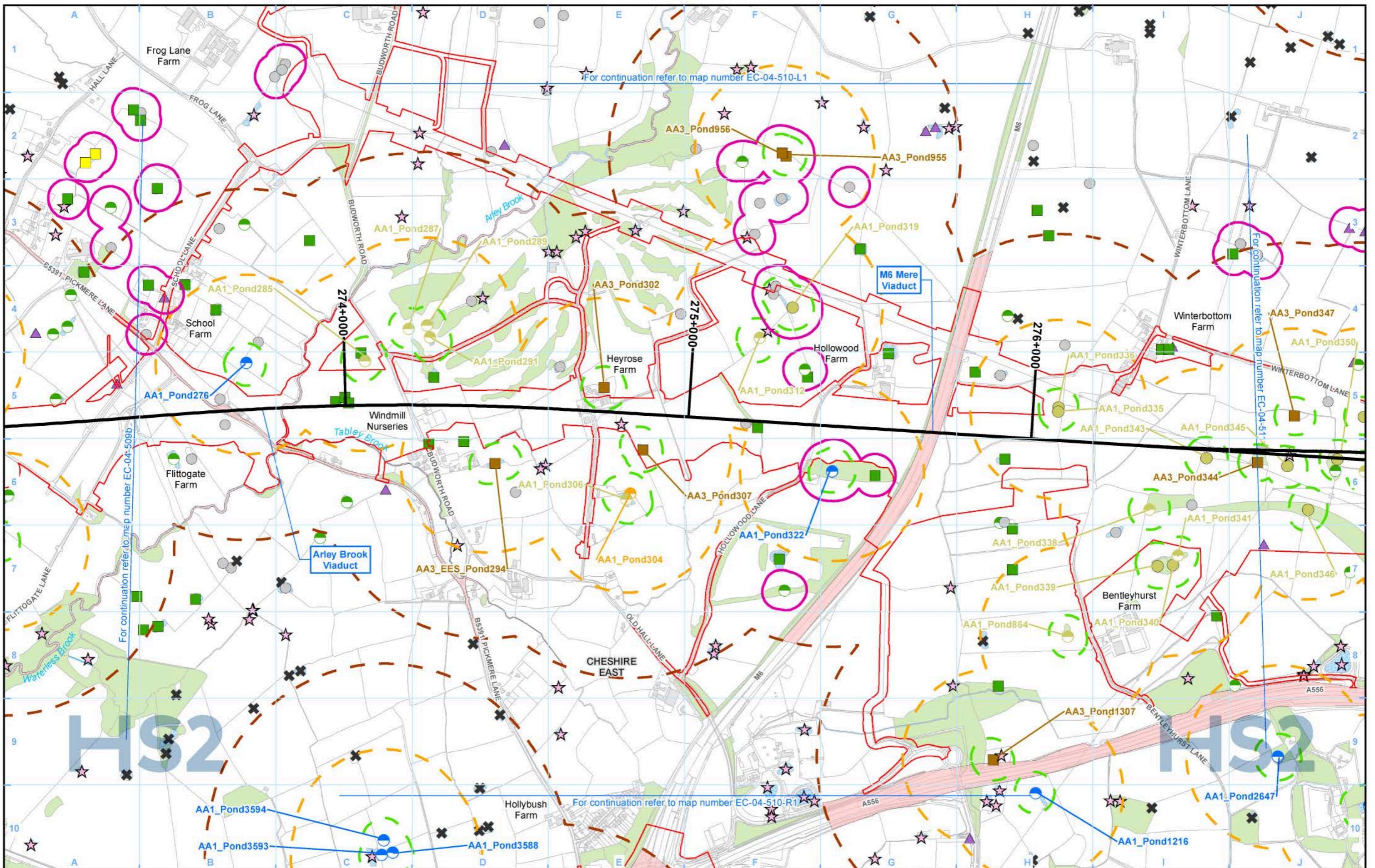


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Date: 13/04/23



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)
- Area contains new survey data
- eDNA survey complete - result inconclusive
- eDNA survey complete - GCN present
- eDNA survey complete - GCN assumed absent
- GCN present (6 visits) - small population (1 - 10 adults)
- GCN present (less than 6 visits) - medium population (11 - 99 adults)
- GCN present (less than 6 visits) - small population (1 - 10 adults)
- GCN present (less than 6 visits) - no GCN found

Legend

- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped in - no access permission
- Scoped out - no survey required
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number	EC-04-510
Map Name	Amphibians SES2 and AP2 ES
Community Area MA03:	Pickmere to Agden and Hulseheath
Doc Number:	2PT27-MWJ-EV-MAP-M000-000958-P01



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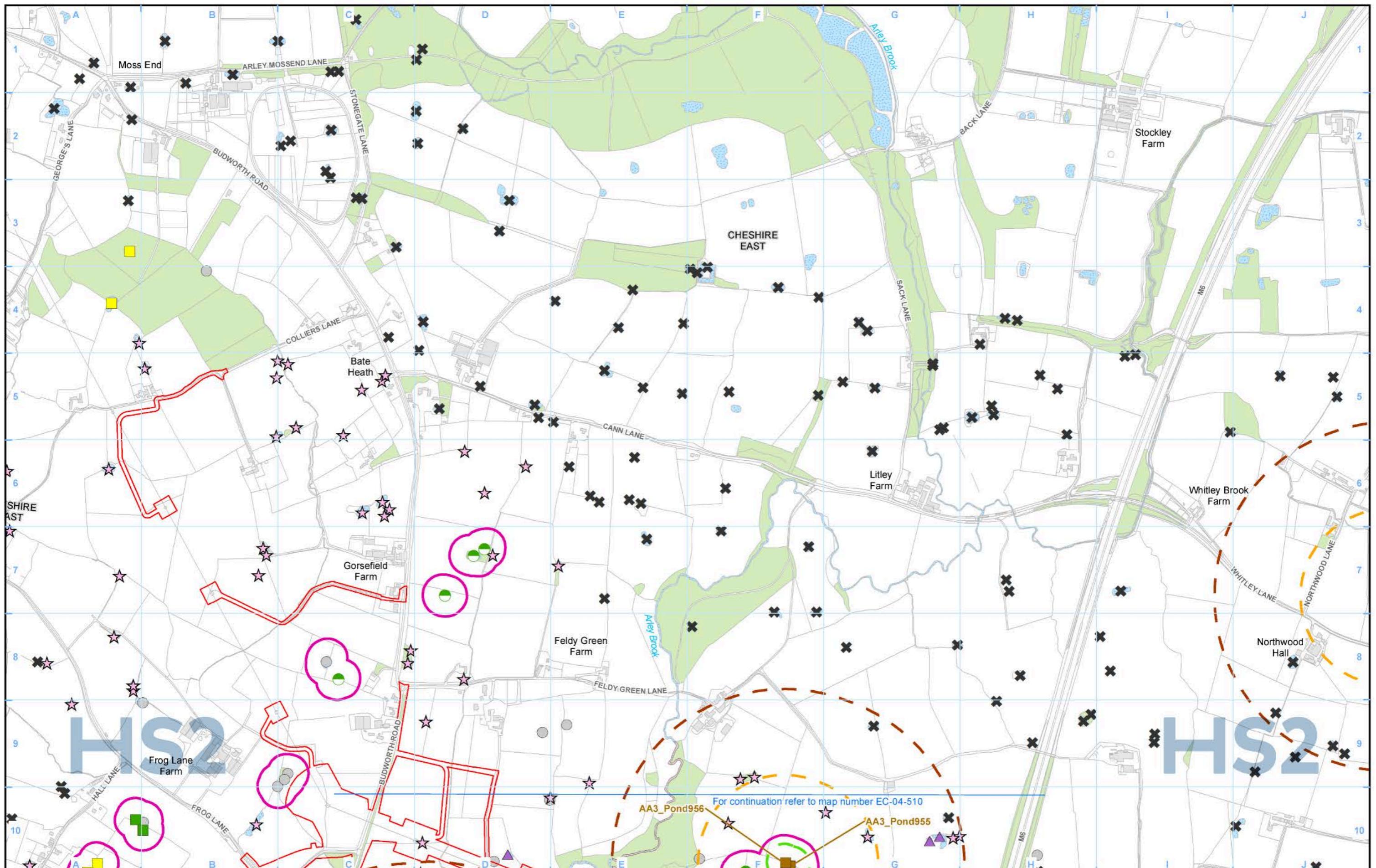
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Legend

- 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)
- Area contains new survey data
- eDNA survey complete - result inconclusive
- eDNA survey complete - GCN present
- eDNA survey complete - GCN assumed absent
- Survey incomplete, no GCN found
- Survey complete, GCN assumed absent
- Scoped out - no survey required
- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped in - no access permission

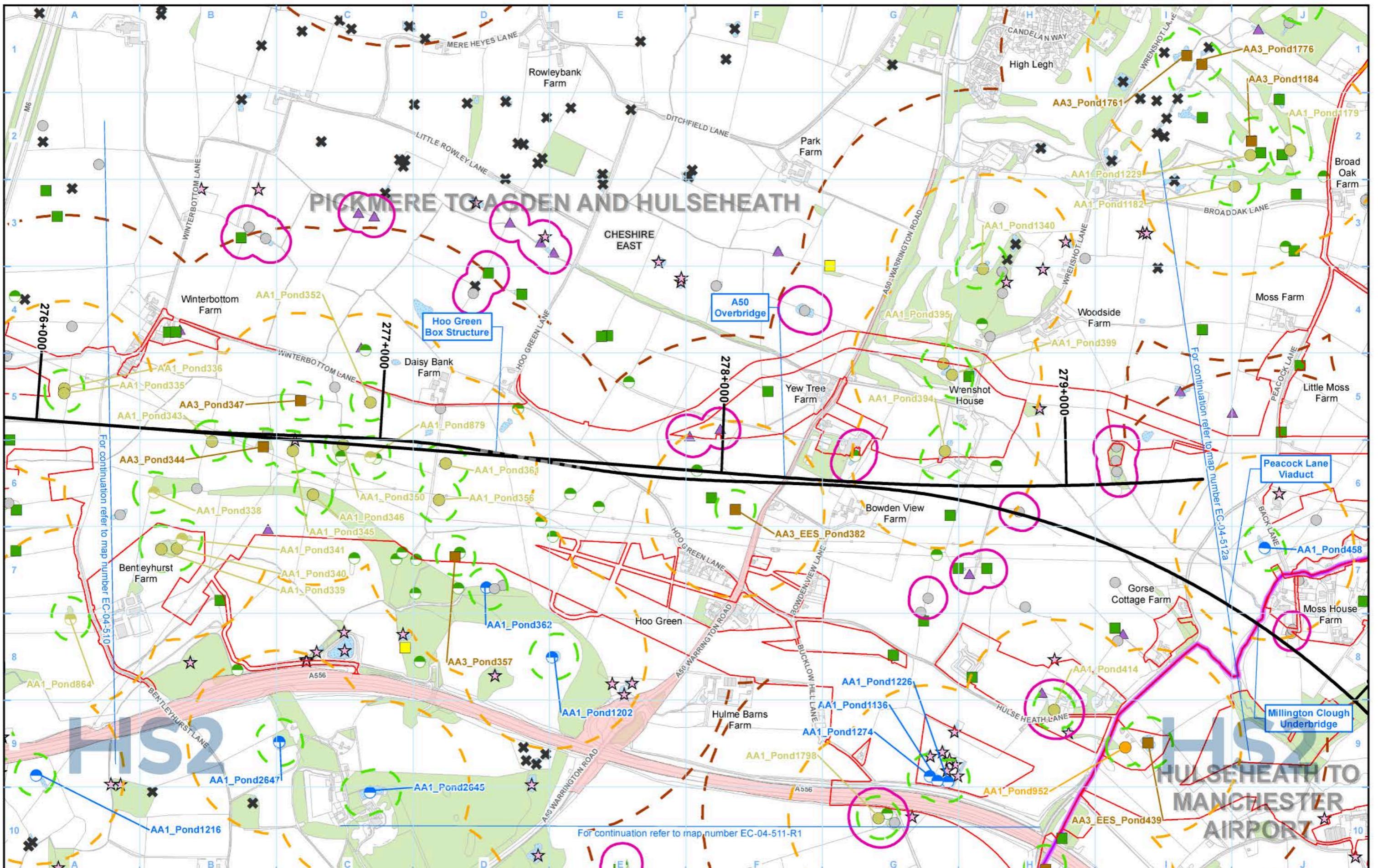
50m radius from all water bodies where presence of GCN is confirmed
 250m radius from all water bodies where presence of GCN is confirmed
 500m radius from all water bodies where presence of GCN is confirmed
 Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number
EC-04-510-L1
Map Name
Amphibians
SES2 and AP2 ES
Community Area MA03:
Pickmere to Agden and Hulseheath



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Doc Number: 2PT27-MWJ-EV-MAP-M000-002919-P01
Date: 13/04/23



Legend

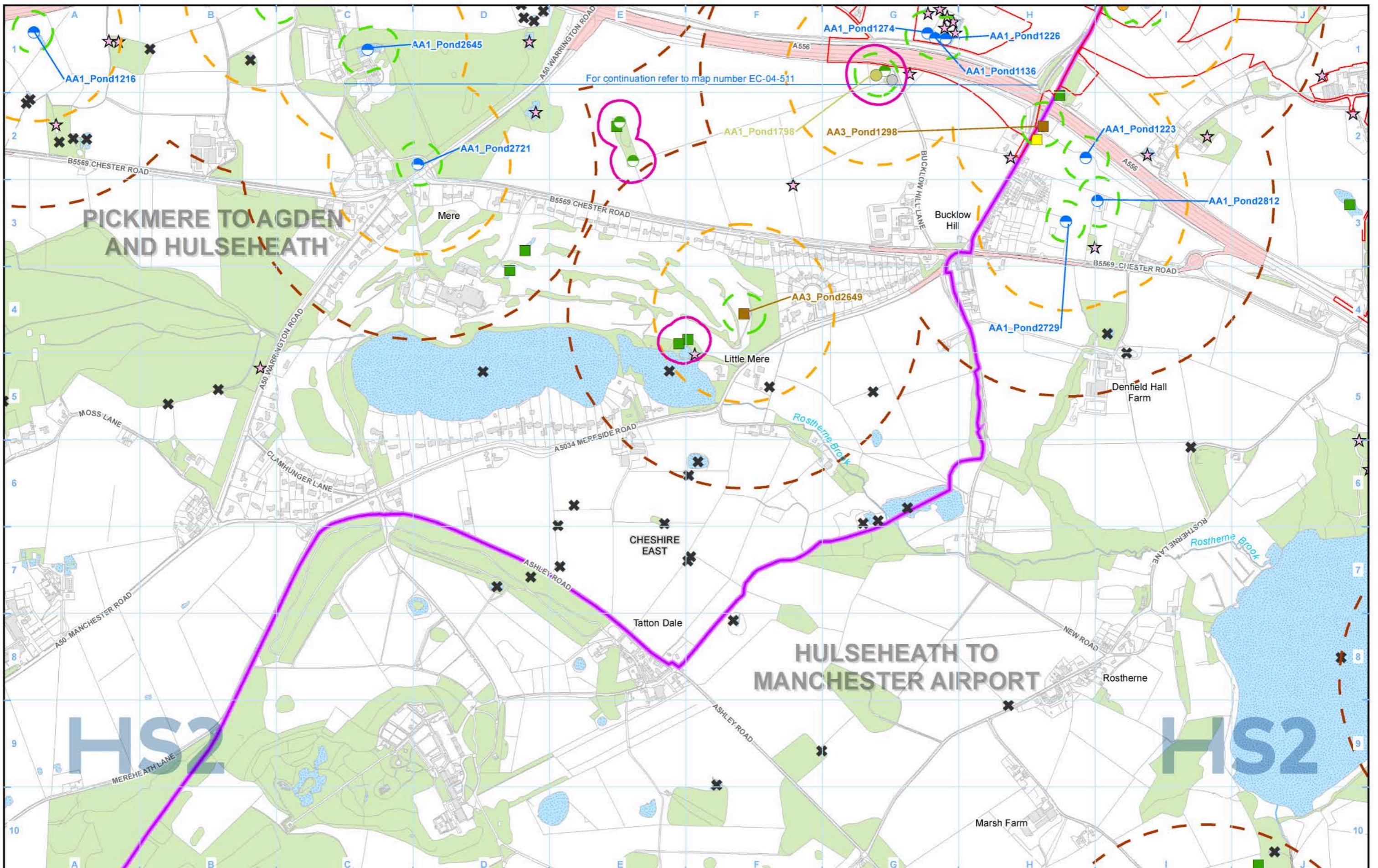
- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Area contains new survey data
- eDNA survey complete - result inconclusive
- GCN present (less than 6 visits) - small population (1 - 10 adults)
- GCN confirmed present - no size class determined
- Survey complete, GCN assumed absent
- GCN present (6 visits) - medium population (11 - 99 adults)
- GCN present (6 visits) - small population (1 - 10 adults)
- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped in - no access permission
- Scoped out - no survey required

- GCN present (less than 6 visits) - small population (1 - 10 adults)
- GCN confirmed present - no size class determined
- Survey complete, GCN assumed absent
- GCN present (6 visits) - medium population (11 - 99 adults)
- GCN present (6 visits) - small population (1 - 10 adults)
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number	EC-04-511
Map Name	Amphibians SES2 and AP2 ES
Community Area MA03: Pickmere to Agden and Hulseheath	

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Date: 13/04/23
Doc Number: 2PT27-MWJ-EV-MAP-M000-000959-P01



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)
- Area contains new survey data
- eDNA survey complete - GCN present
- eDNA survey complete - GCN assumed absent
- GCN present (6 visits) - medium population (11 - 99 adults)
- GCN present (6 visits) - small population (1 - 10 adults)
- eDNA survey complete - result inconclusive

GCN confirmed present - no size class determined **Scoped in - no access permission** **50m radius from all water bodies where presence of GCN is confirmed**

Survey complete, GCN assumed absent **Scoped out - no survey required** **250m radius from all water bodies where presence of GCN is confirmed**

Survey incomplete, no GCN found **500m radius from all water bodies where presence of GCN is confirmed**

Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number
EC-04-511-R1
Map Name
Amphibians
SES2 and AP2 ES
Community Area MA03:
Pickmere to Agden and Hulseheath



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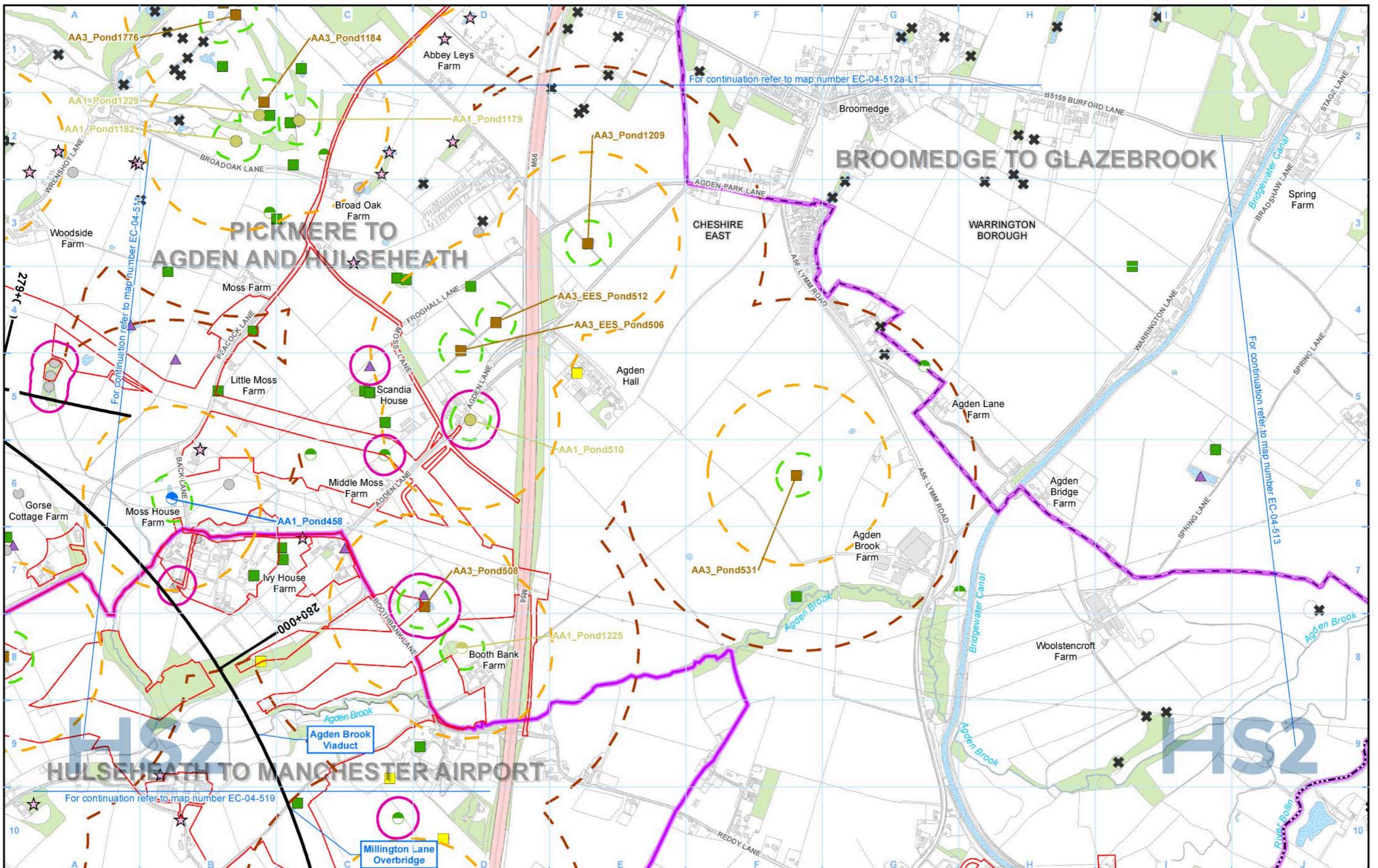
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Date: 13/04/23

Doc Number: 2PT27-MWJ-EV-MAP-M000-002920-P01



Legend	
Route in tunnel	District/Borough boundary
Route on surface	Watercourse
Depot, station, headhouse or portal building	Water body
Land potentially required during construction	Woodland (not verified by survey)
Community area boundary	Area contains new survey data
County boundary	eDNA survey complete - result inconclusive
	eDNA survey complete - GCN present
	eDNA survey complete - GCN assumed absent
	GCN present (6 visits) - small population (1 - 10 adults)
	GCN present (less than 6 visits) - small population (1 - 10 adults)
	GCN confirmed present - no size class determined
	Survey complete, GCN assumed absent
	Survey incomplete, no GCN found
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of GCN is confirmed
	250m radius from all water bodies where presence of GCN is confirmed
	500m radius from all water bodies where presence of GCN is confirmed
	Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number	EC-04-512a
Map Name	Amphibians SES2 and AP2 ES
Community Area MA03:	Pickmere to Agden and Hulseheath
Date:	13/04/23



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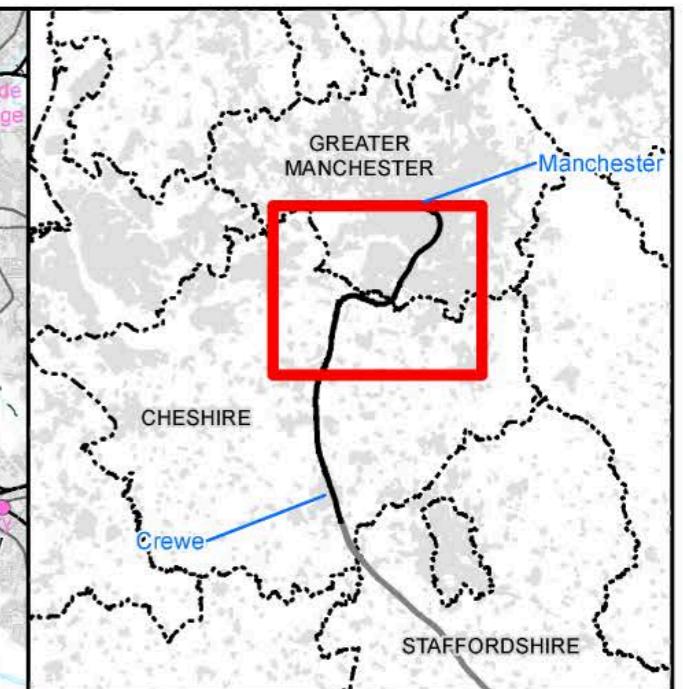
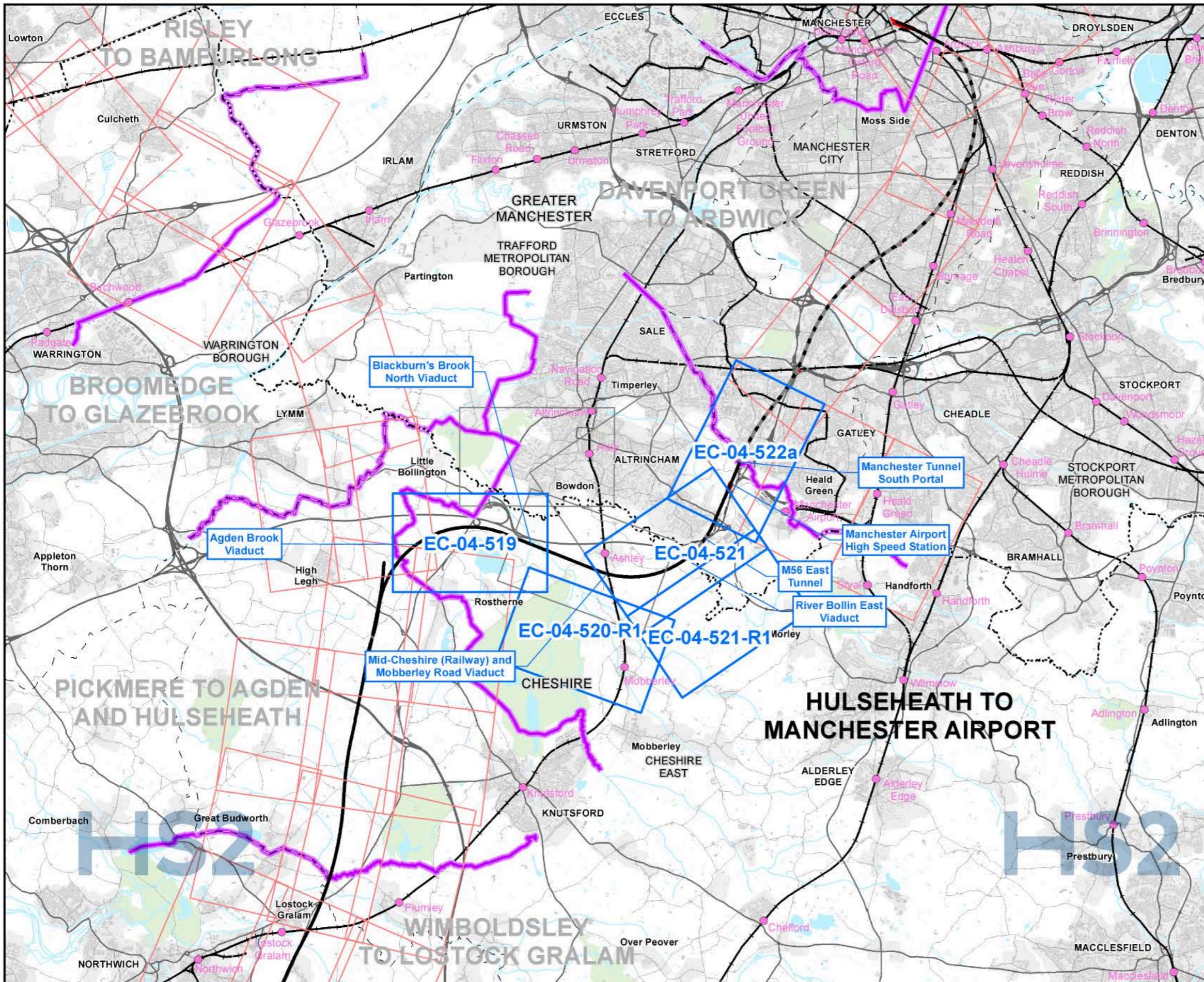
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Doc Number: 2PT27-MWJ-EV-MAP-M000-000960-P01



Date: 13/04/23

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Main Map Legend	
Route in tunnel	Map sheets included in this community area
Route on surface	Map sheets included in this community area with no amendment
Depot, station, headhouse or portal building	Map sheets not included in this community area
Community area boundary	
Existing railway station	
County boundary	
District/Borough boundary	

Map Number	EC-04-INDEX-MA06
Map Name	Index Map of: Amphibians SES2 and AP2 ES
Community Area MA06: Hulse Heath to Manchester Airport	
Doc Number: 2PT27-MWJ-EV-MAP-M000-000987-P01 Date: 06/04/23	

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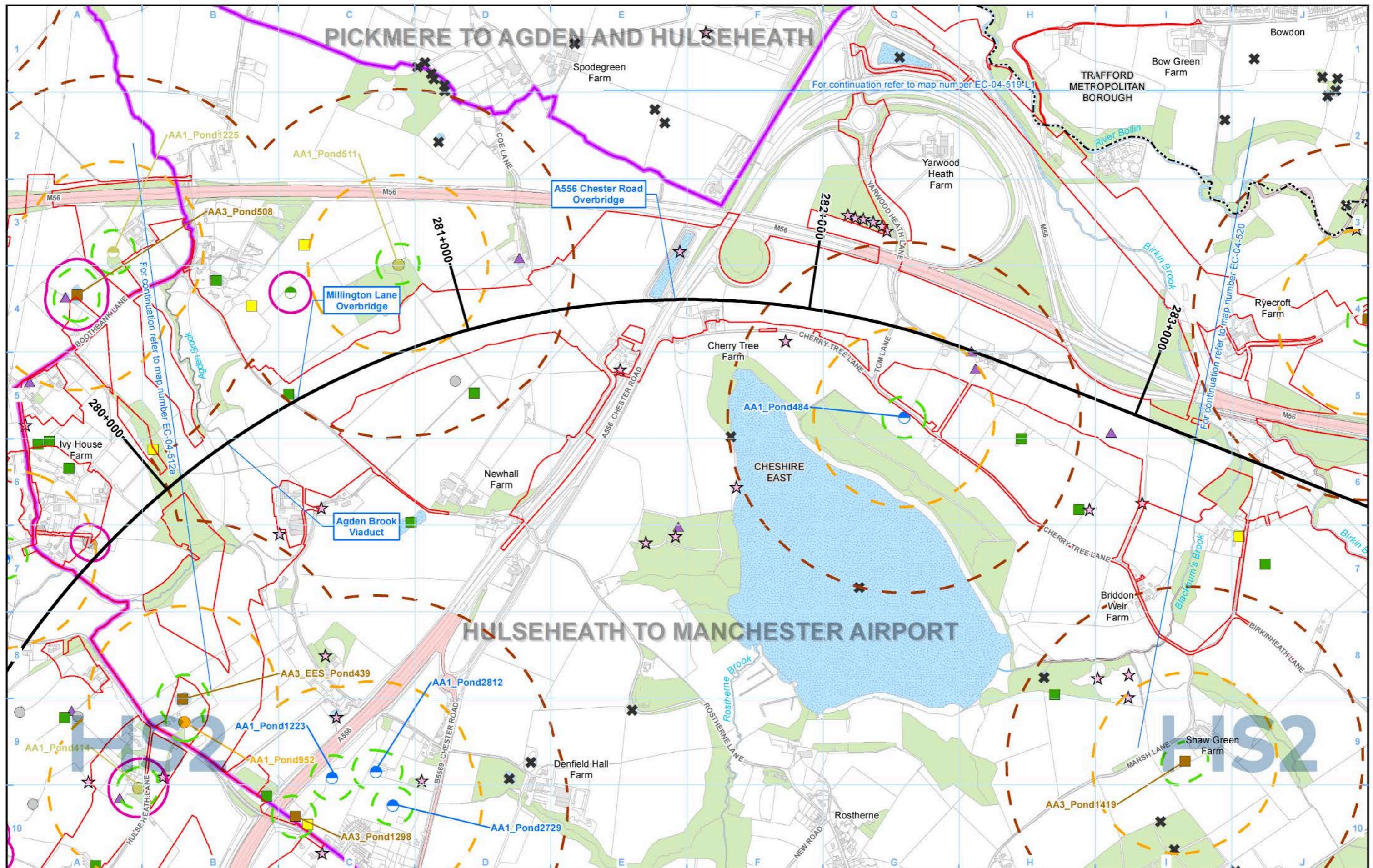
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Scale at A3: 1:100,000

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

Date: 06/04/23

PICKMERE TO AGDEN AND HULSEHEATH



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)
- Area contains new survey data
- eDNA survey complete - GCN present
- eDNA survey complete - GCN assumed absent
- GCN present (6 visits) - medium population (11 - 99 adults)
- GCN present (6 visits) - small population (1 - 10 adults)
- eDNA survey complete - result inconclusive

- GCN present (less than 6 visits) - small population (1 - 10 adults)
- GCN confirmed present - no size class determined
- Survey complete, GCN assumed absent
- Survey incomplete, no GCN found

- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped in - no access permission
- Scoped out - no survey required

- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number

EC-04-519

Map Name

Amphibians
SES2 and AP2 ES

Community Area MA06:
Hulseheath to Manchester Airport



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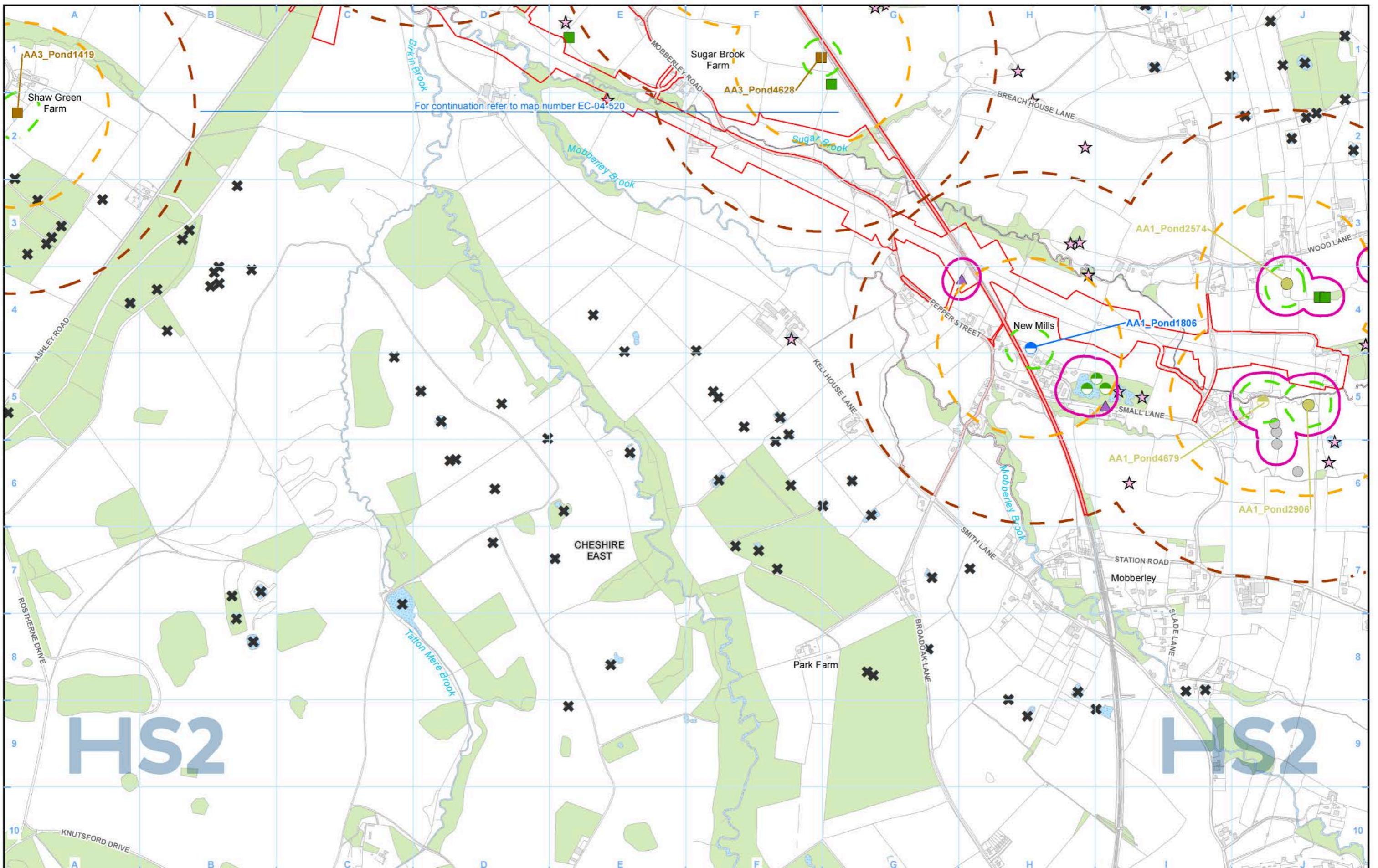
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Date: 28/04/23

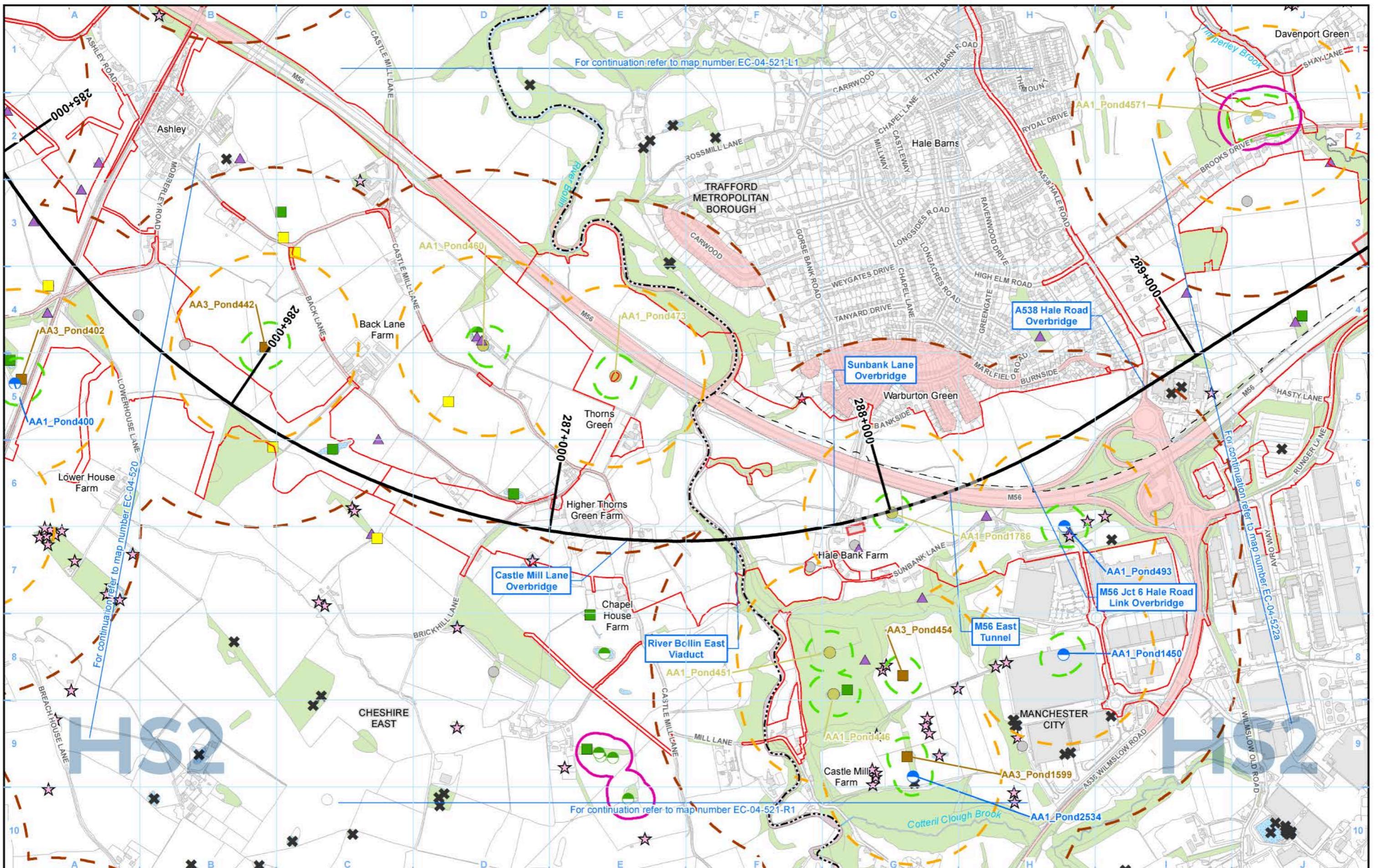
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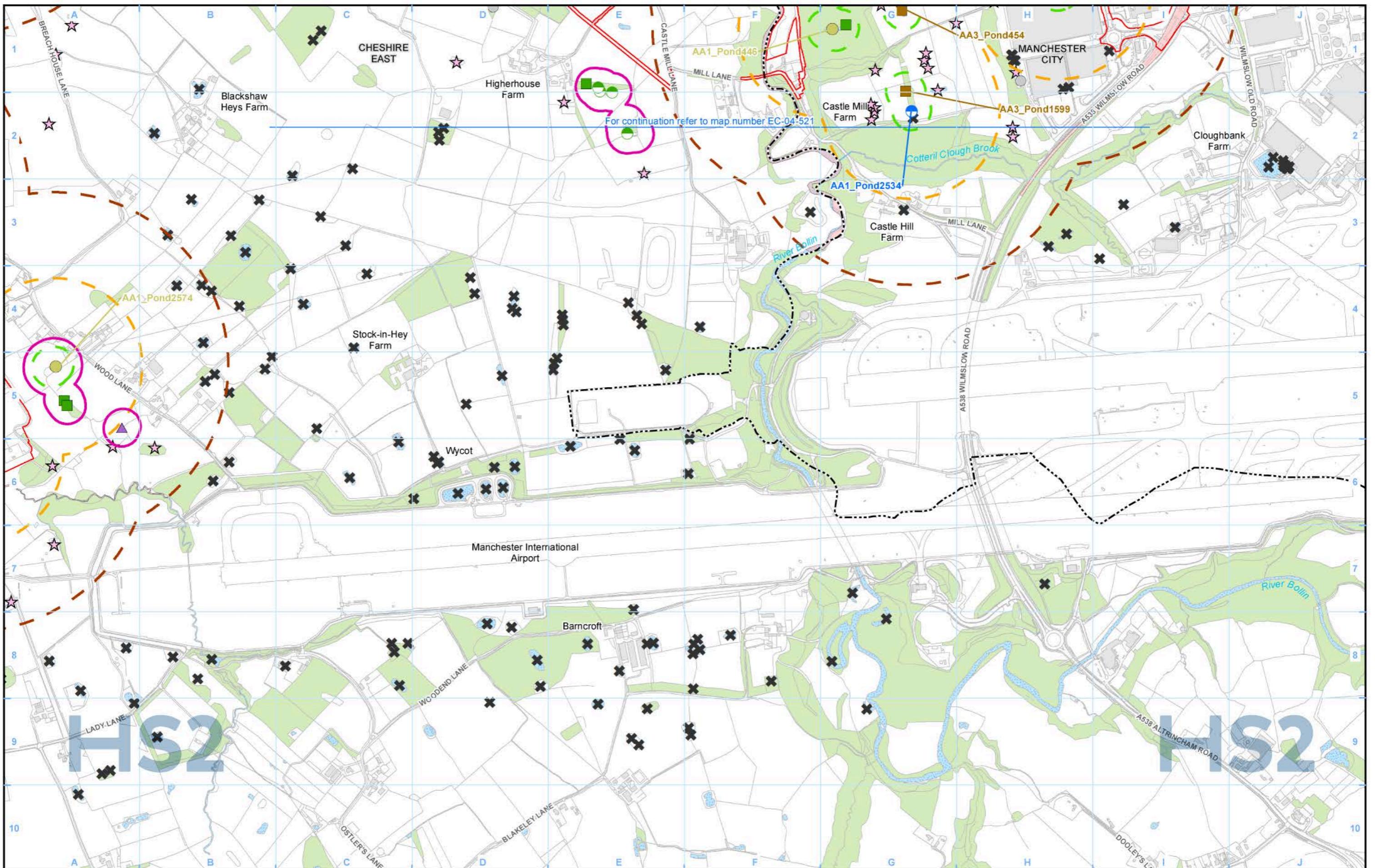
Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- eDNA survey complete - GCN present
- Water body
- Woodland (not verified by survey)
- Area contains new survey data
- County boundary
- District/Borough boundary
- Watercourse
- Survey complete, GCN assumed absent
- Survey complete, GCN present (6 visits) - small population (1 - 10 adults)
- Survey incomplete, no GCN found
- Survey complete, GCN present (less than 6 visits) - small population (1 - 10 adults)
- Survey complete, GCN confirmed present - no size class determined
- Scoped in - no access permission
- Scoped out - no survey required
- Scoped in - Habitat Suitability Index (HSI)/walkover only
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts



Map Number	EC-04-521	HS2
Map Name	Amphibians SES2 and AP2 ES	
Community Area MA06:	Hulme Heath to Manchester Airport	
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	Date: 28/04/23	
	Doc Number: 2PT27-MWJ-EV-MAP-M000-000971-P01	



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)
- Area contains new survey data
- eDNA survey complete - GCN assumed absent
- GCN present (6 visits) - small population (1 - 10 adults)
- GCN confirmed present - no size class determined
- eDNA survey complete - GCN present

- Survey complete, GCN assumed absent
- Survey incomplete, no GCN found
- Scoped in - no access permission
- Scoped out - no survey required
- Scoped in - Habitat Suitability Index (HSI)/walkover only
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number	EC-04-521-R1
Map Name	Amphibians SES2 and AP2 ES
Community Area MA06:	Hulseheath to Manchester Airport
Doc Number:	2PT27-MWJ-EV-MAP-M000-004651-P01



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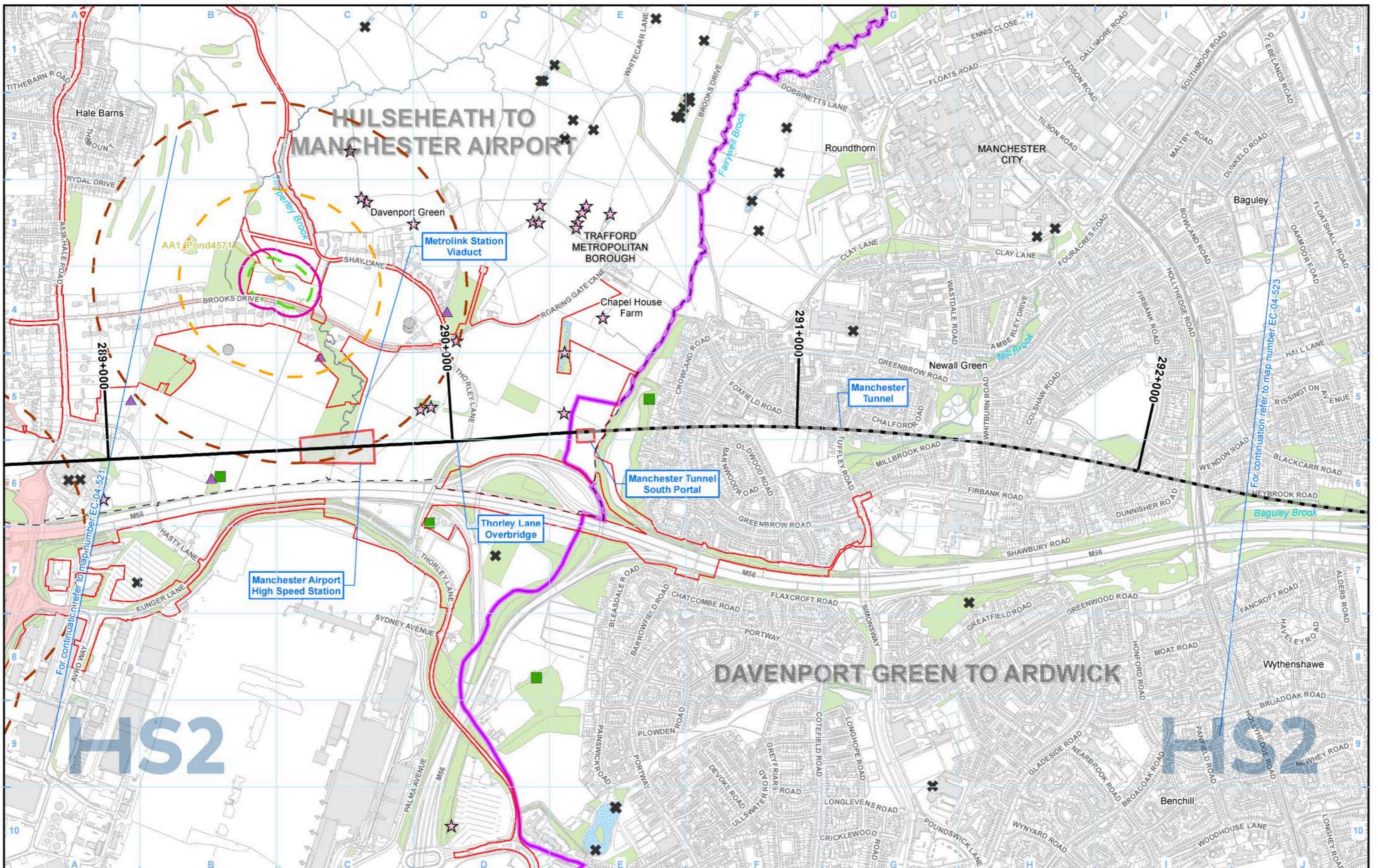
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Map Number

EC-04-522a

Map Name

Amphibians
SES2 and AP2 ES

Community Area MA06:
Hulse Heath to Manchester Airport



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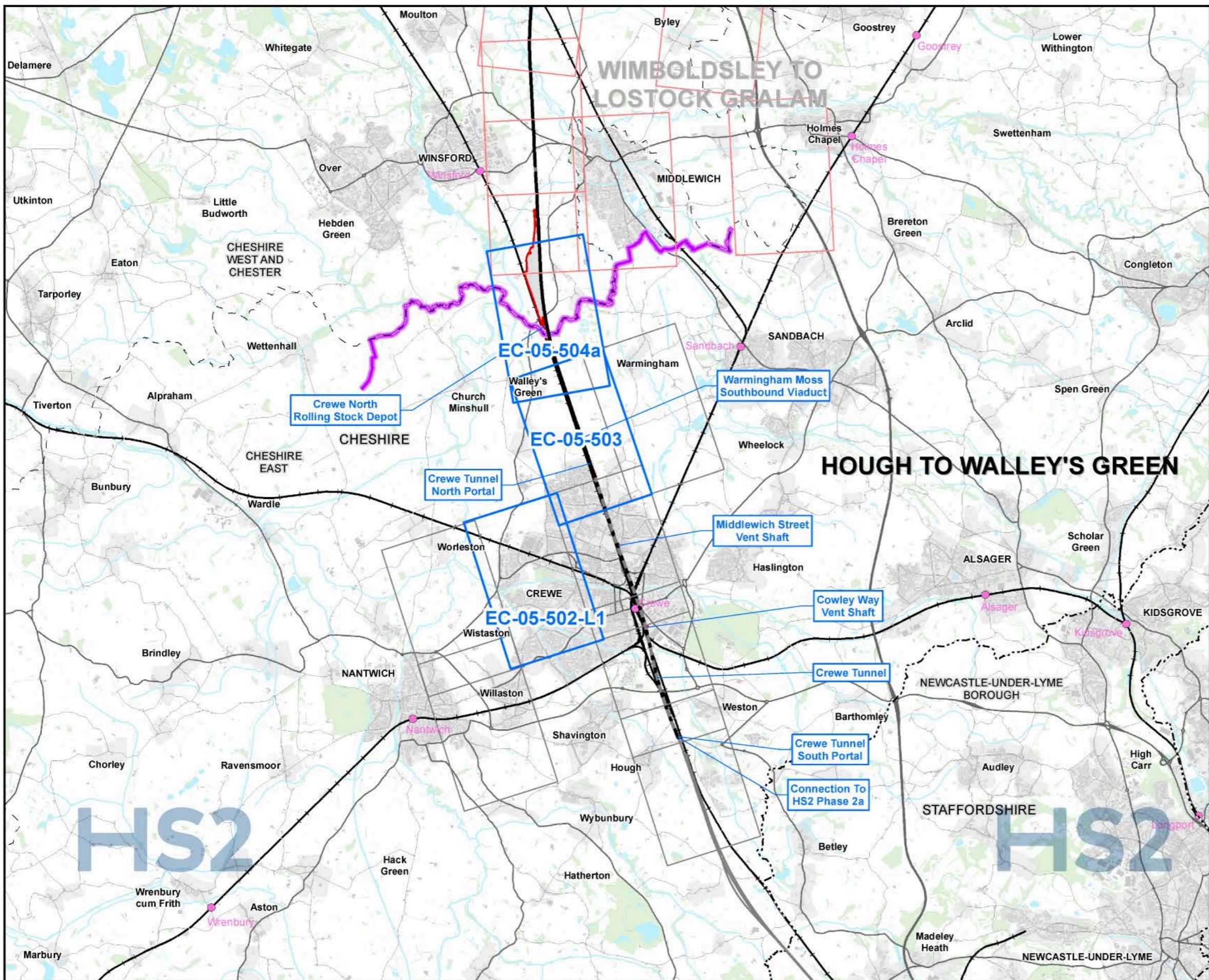
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High Speed Rail (Crewe – Manchester)

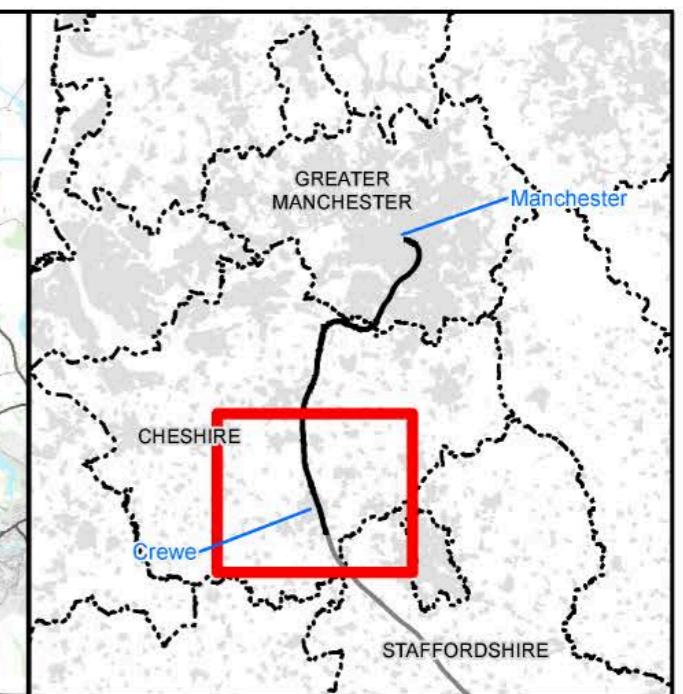
**Background information and data accompanying
Supplementary Environmental Statement 2 and
Additional Provision 2 Environmental Statement**

EC-05 – Bats - Roost



Main Map Legend	
Route in tunnel	Map sheets included in this community area
Route on surface	Map sheets included in this community area with no amendment
Depot, station, headhouse or portal building	Map sheets not included in this community area
Community area boundary	
Existing railway station	
County boundary	
District/Borough boundary	

Map Number	EC-05-INDEX-MA01
Map Name	Index Map of: Bat - Roosts SES2 and AP2 ES
Community Area MA01:	Hough to Walley's Green



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.

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



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	Area contains new survey data
Community area boundary	
County boundary	
District/Borough boundary	

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

Potential to support roosting bats - trees:

▲ High
▲ Moderate

Map Number	EC-05-502-L1
Map Name	Bat - Roosts SES2 and AP2 ES
Community Area MA01: Hough to Walley's Green	
Doc Number:	2PT27-MWJ-EV-MAP-M000-003657-P01



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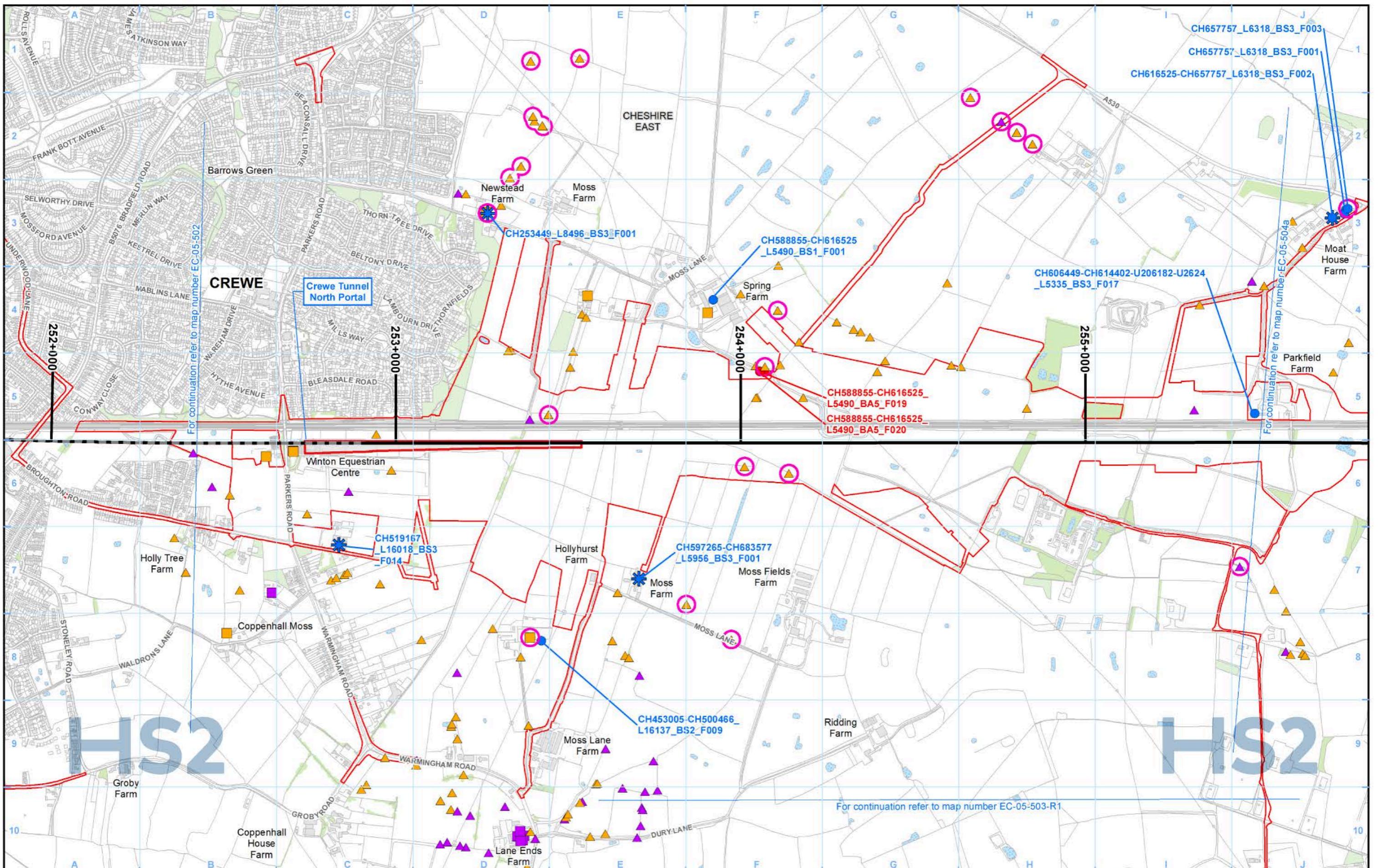
Scale at A3: 1:10,000



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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)
- Area contains new survey data

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

Potential to support roosting bats - trees:

▲ High	▲ Moderate
--------	------------

Map Number EC-05-503
Map Name Bat - Roosts SES2 and AP2 ES
Community Area MA01: Hough to Walley's Green



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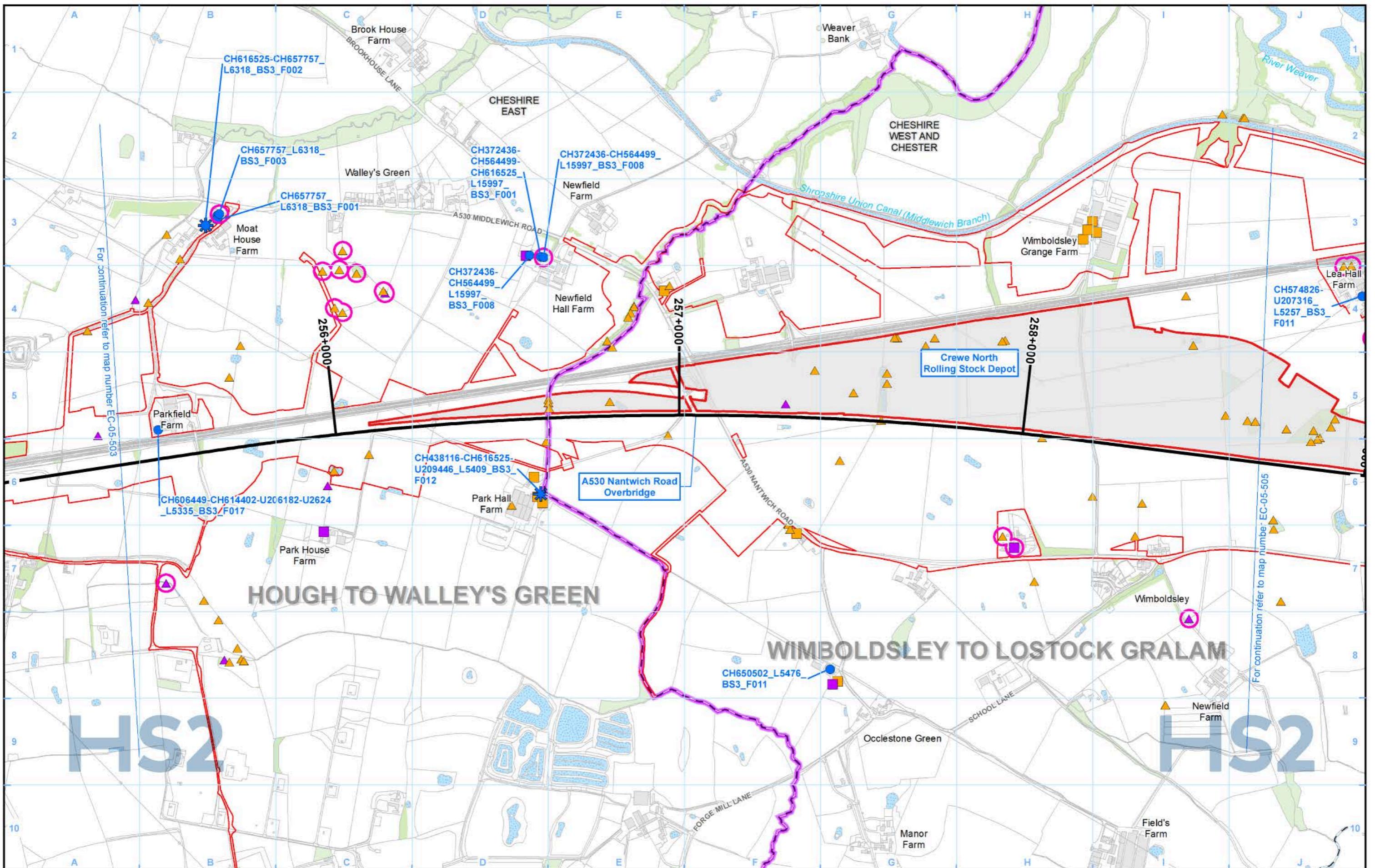
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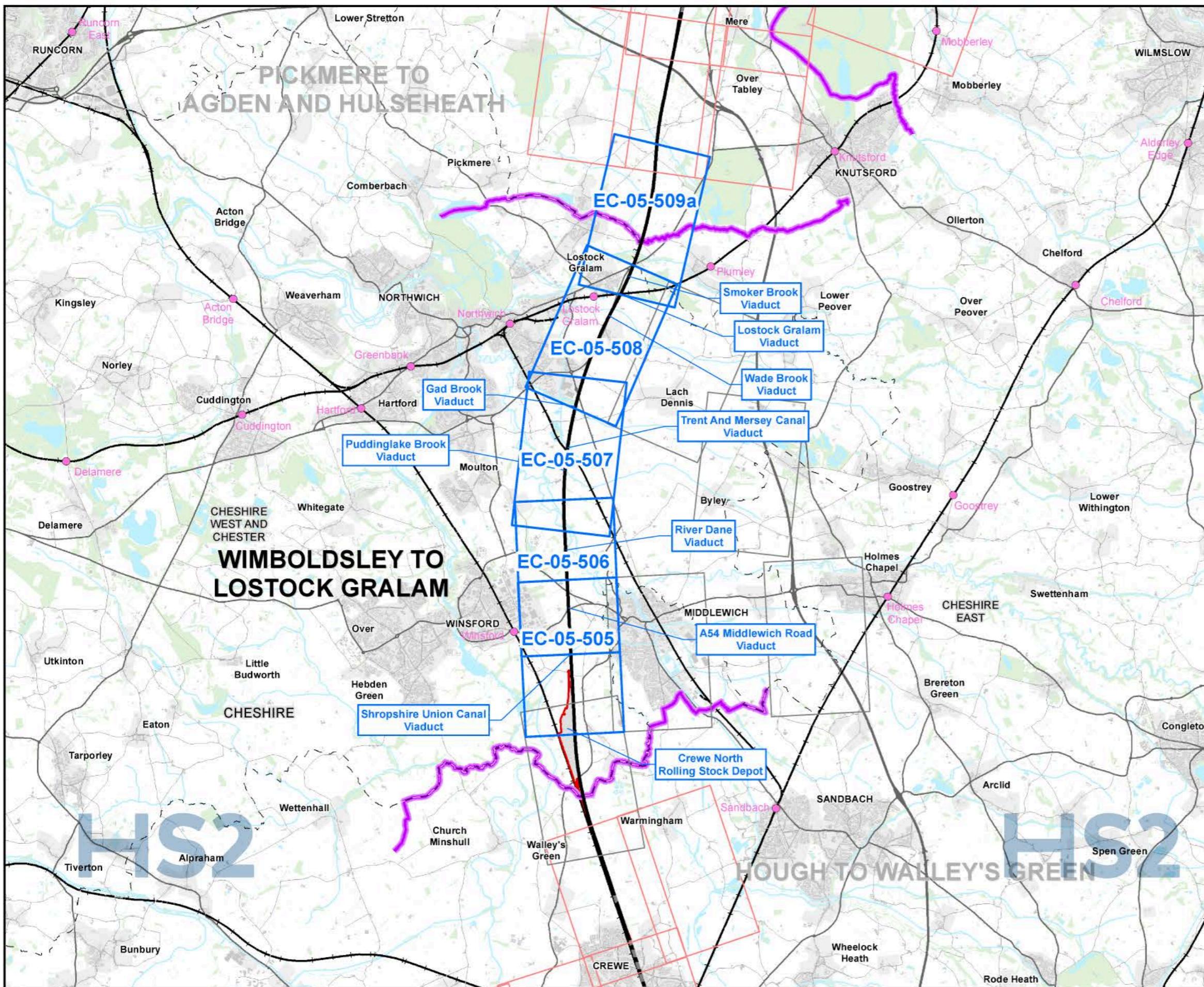
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Date: 31/03/23

Doc Number: 2PT27-MWJ-EV-MAP-M000-000995-P01



Map Number	EC-05-504a	HS2
Map Name	Bat - Roosts SES2 and AP2 ES	
Community Area MA01:	Hough to Walley's Green	HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.
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		Doc Number: 2PT27-MWJ-EV-MAP-M000-000996-P01
		Date: 31/03/23



Main Map Legend	
Route in tunnel	Map sheets included in this community area
Route on surface	Map sheets included in this community area with no amendment
Depot, station, headhouse or portal building	Map sheets not included in this community area
Community area boundary	
Existing railway station	
County boundary	
District/Borough boundary	

Map Number: EC-05-INDEX-MA02

Map Name: Index Map of:
Bat - Roosts
SES2 and AP2 ES

Community Area MA02:
Wimboldsley to Lostock Gralam

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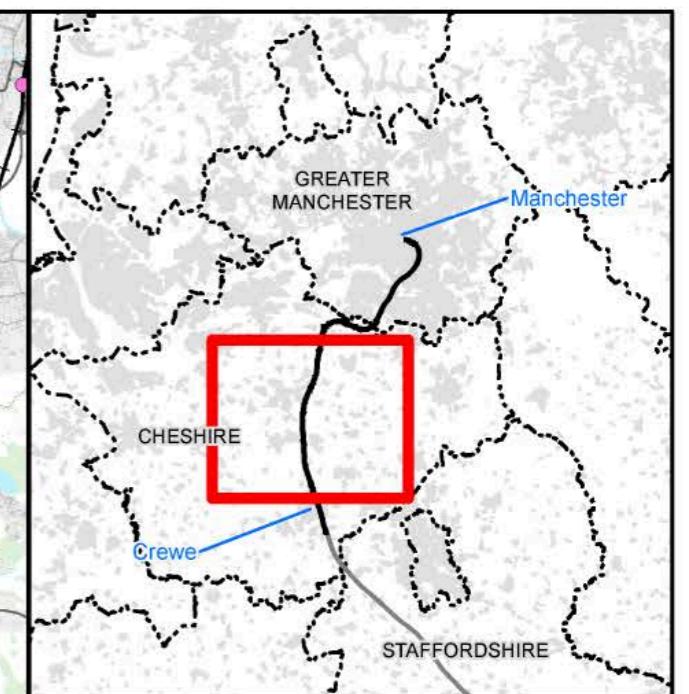
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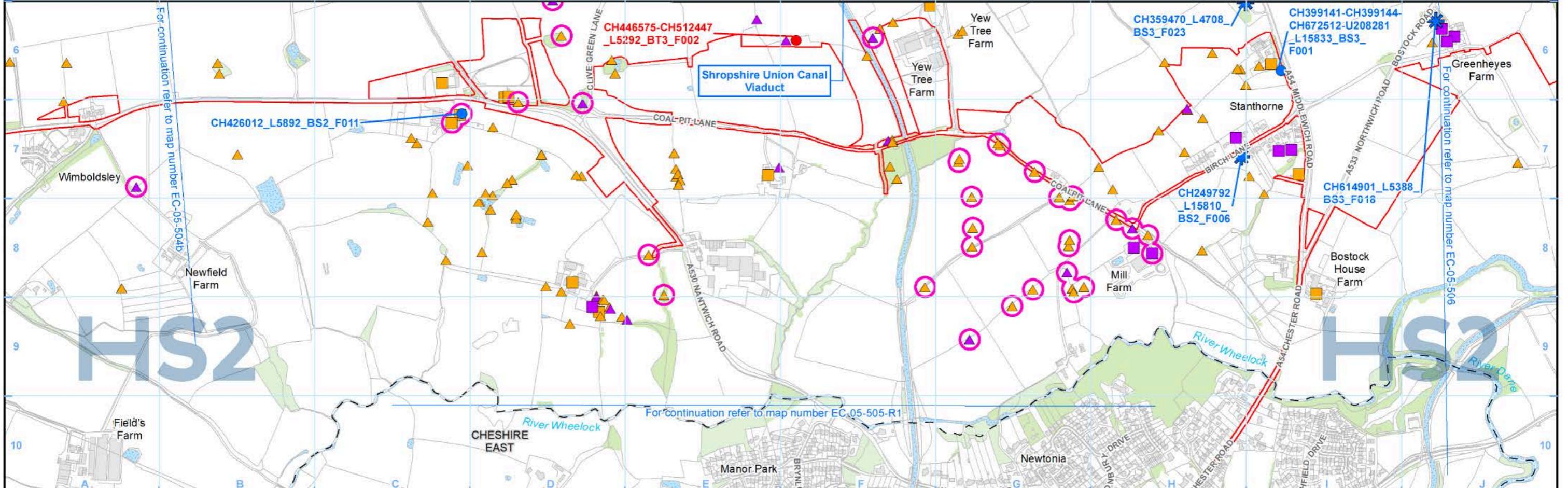
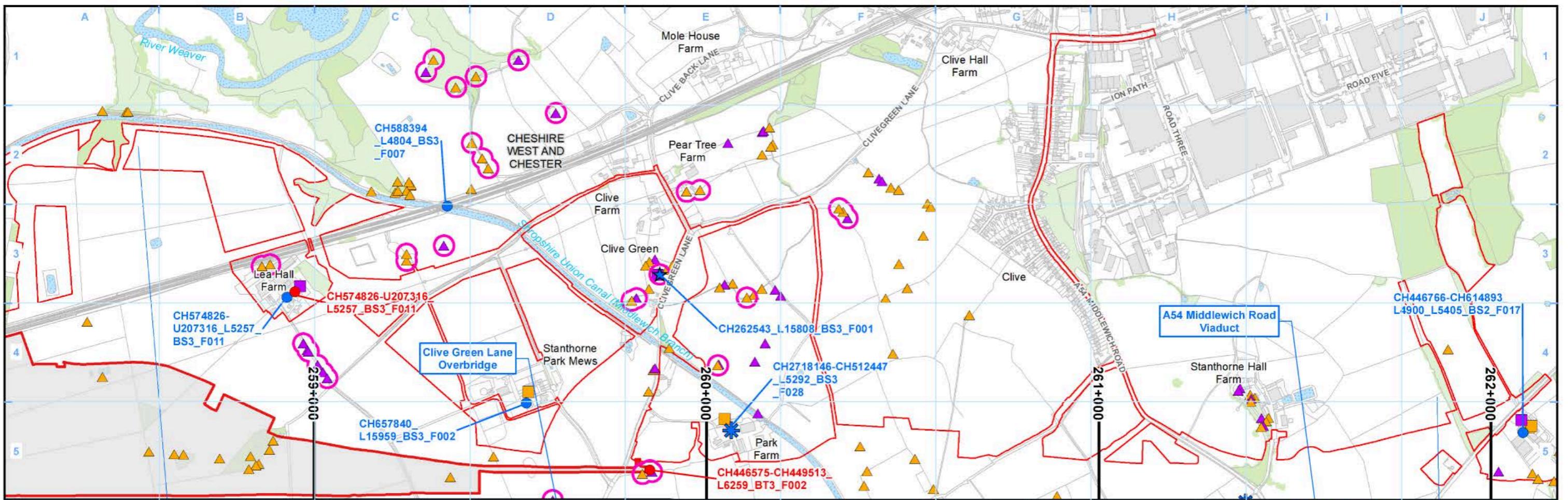
Date: 23/03/23



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.

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



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)
- Area contains new survey data

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	● Other roost
✖ Multiple roost types	✖ Multiple roost types	✖ Multiple roost types

Potential to support roosting bats - trees:

▲ High	▲ Moderate
--------	------------

Map Number
EC-05-505
Map Name
Bat - Roosts
SES2 and AP2 ES
Community Area MA02:
Wimboldsley to Lostock Gramal



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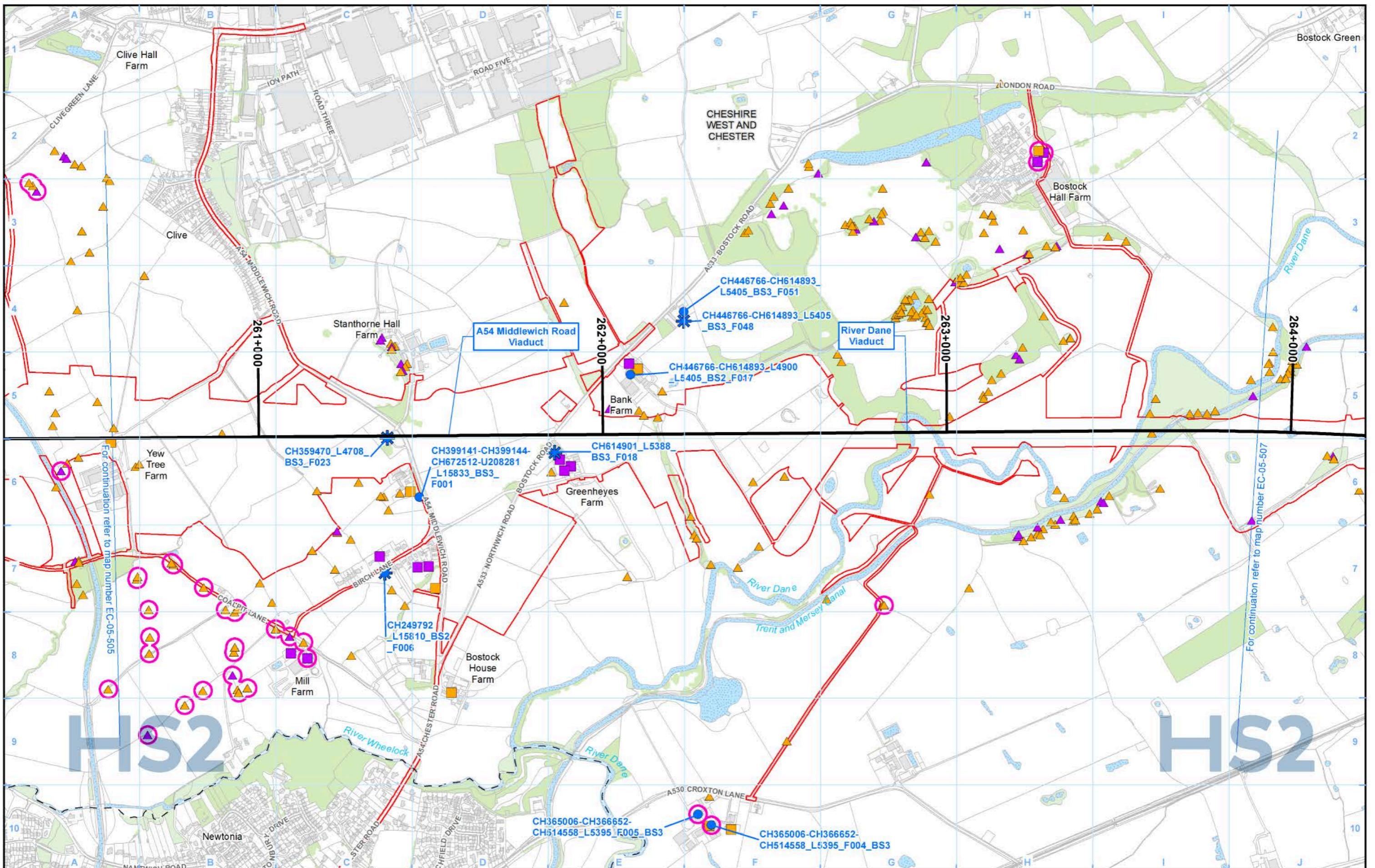
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Scale at A3: 1:10,000

0 100 200 300 400

Metres

Date: 31/03/23



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)
Area contains new survey data

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-05-506
Map Name	Bat - Roosts SES2 and AP2 ES
Community Area MA02: Wimboldsley to Lostock Graml	



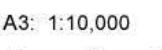
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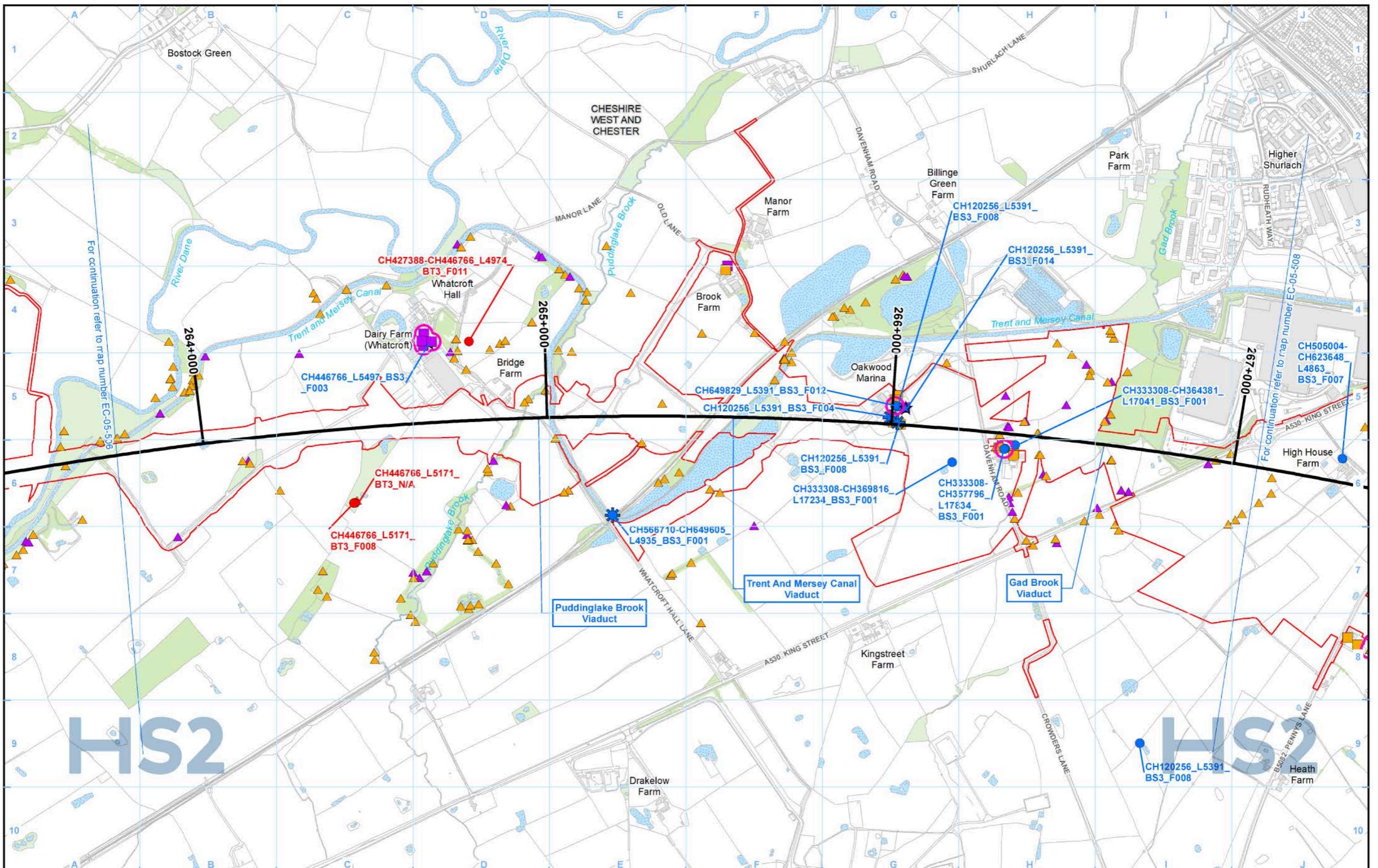
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Doc Number: 2PT27-MWJ-EV-MAP-M000-000999-P01



Date: 31/03/23



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)
- Area contains new survey data

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	■ Low
✖ Multiple roost types	✖ Multiple roost types	■ Very low

Potential to support roosting bats - trees:

▲ High	▲ Moderate
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Map Number EC-05-507
Map Name Bat - Roosts SES2 and AP2 ES
Community Area MA02: Wimboldsley to Lostock Graml

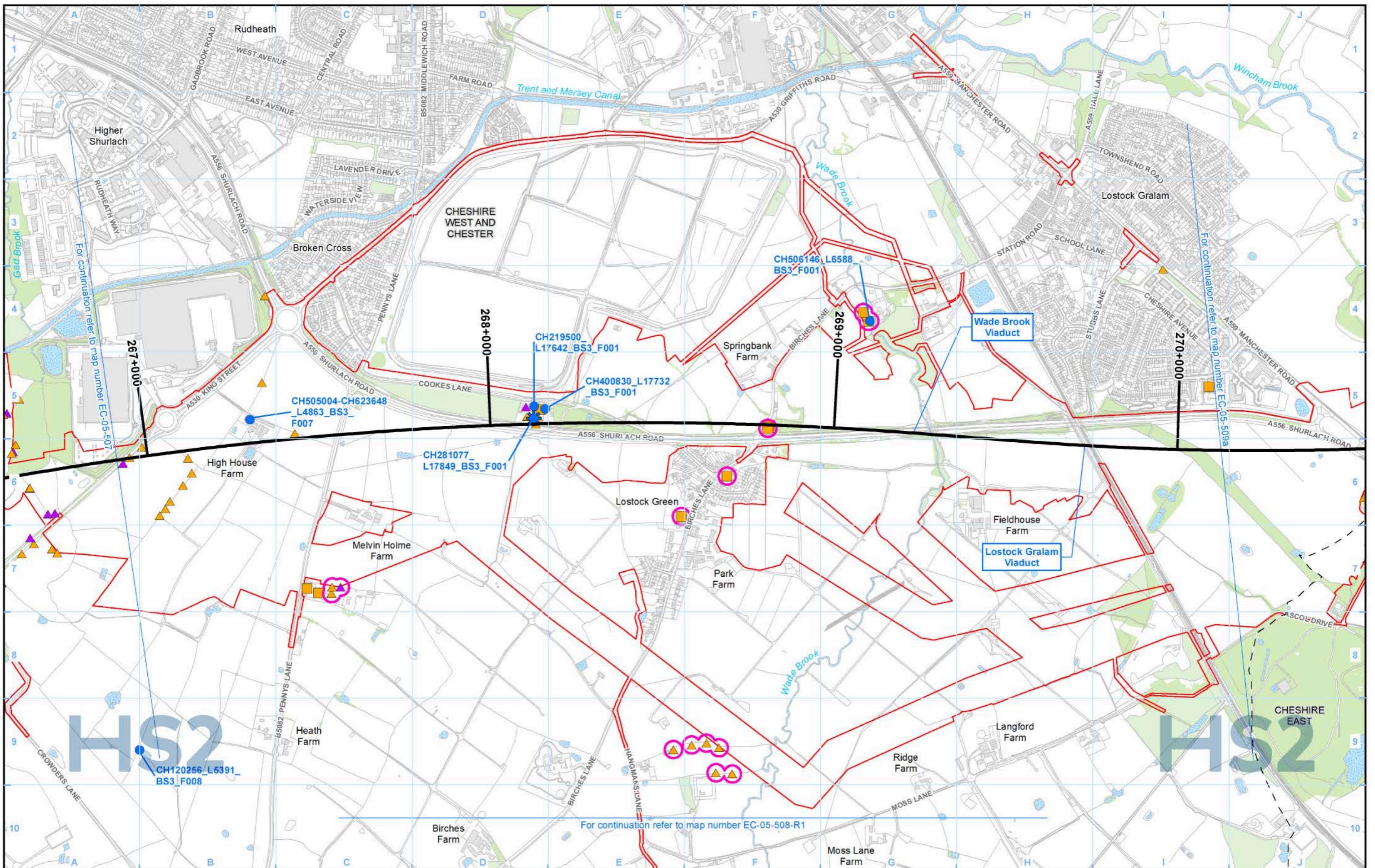


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Scale at A3: 1:10,000

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 (verified by survey)
- Area contains new survey data

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

Potential to support roosting bats - trees:

▲ High
▲ Moderate

Map Number	EC-05-508
Map Name	Bat - Roosts SES2 and AP2 ES
Community Area MA02: Wimboldsley to Lostock Gralam	



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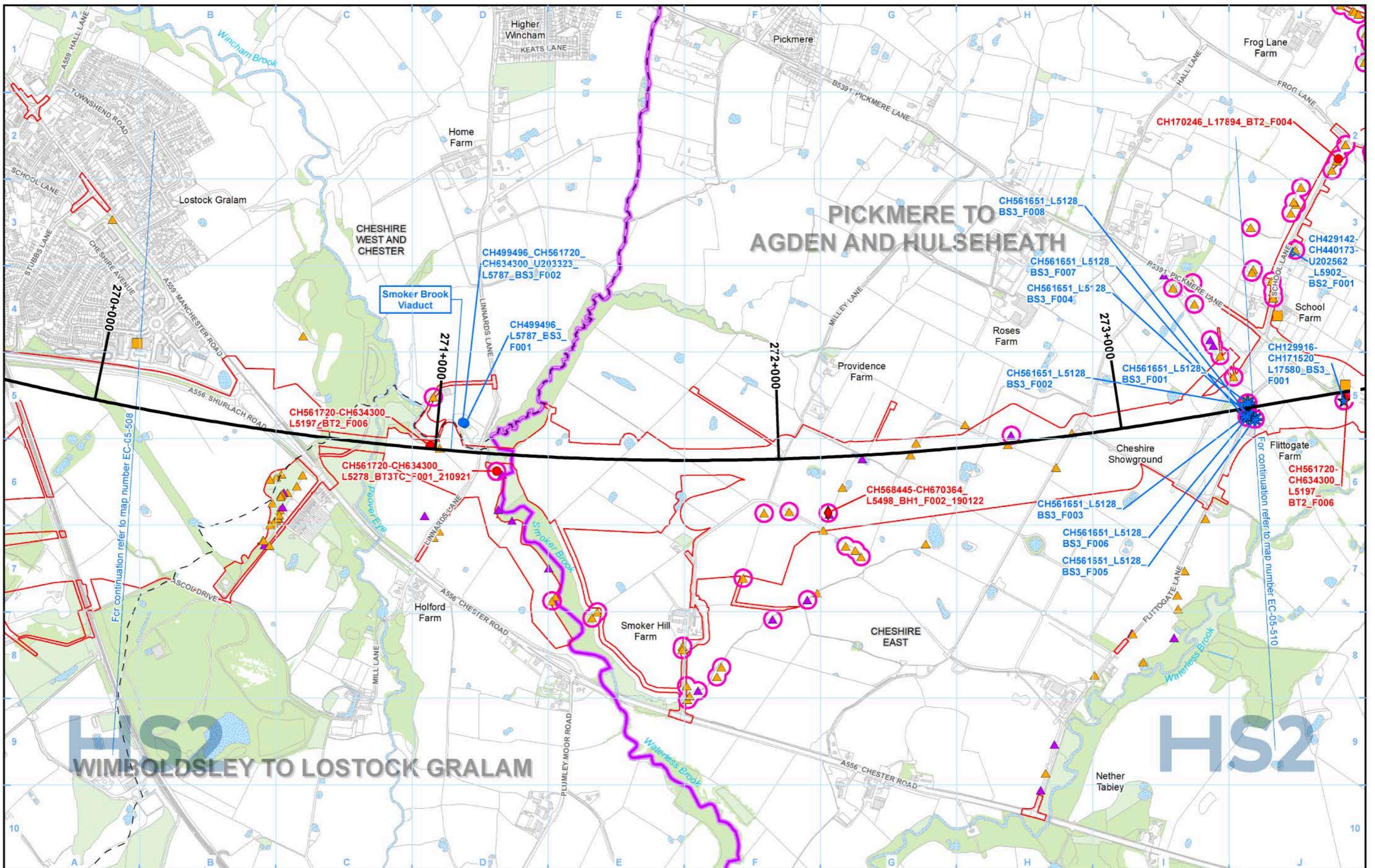
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Scale at A3: 1:10,000

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Doc Number: 2PT27-MWJ-EV-MAP-M000-001001-P01

Date: 31/03/23



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)
Area contains new survey data

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

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

Map Number	EC-05-509a
Map Name	Bat - Roosts SES2 and AP2 ES
Community Area MA02:	Wimboldsley to Lostock Gralam
Doc Number:	2PT27-MWJ-EV-MAP-M000-001002-P01

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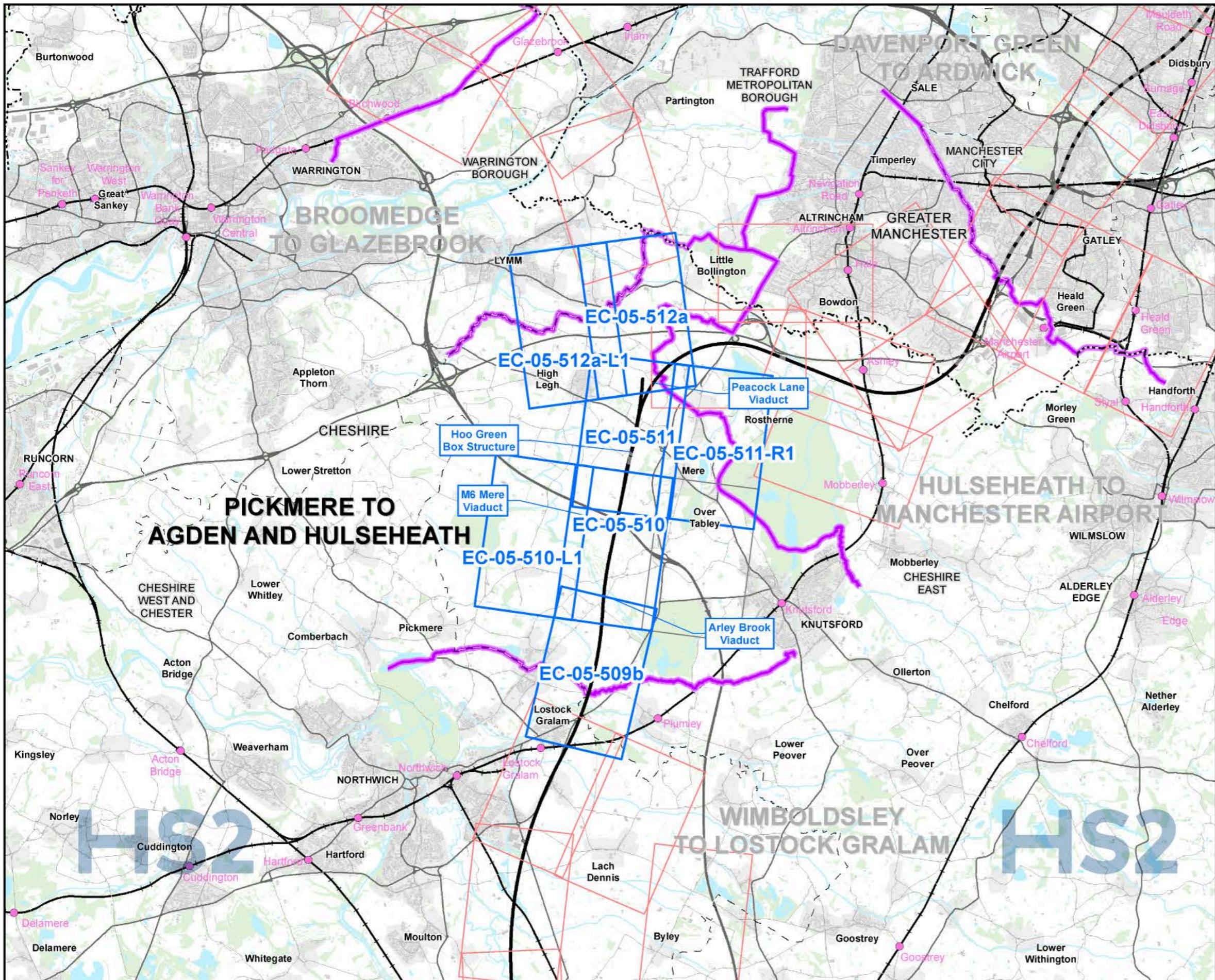
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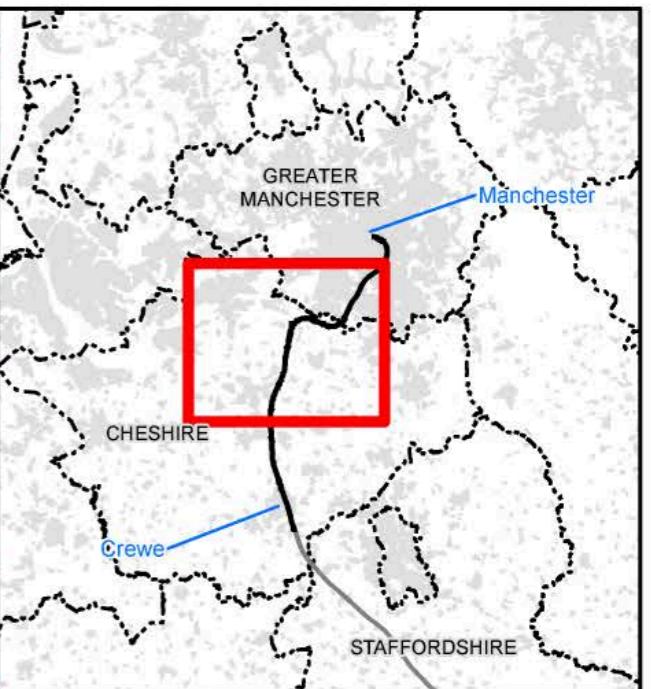
Main Map Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary

Map sheets included in this community area

Map sheets included in this community area with no amendment

Map sheets not included in this community area



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.

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

Map Number: EC-05-INDEX-MA03

Map Name: Index Map of:
Bat - Roosts
SES2 and AP2 ES

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

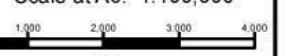
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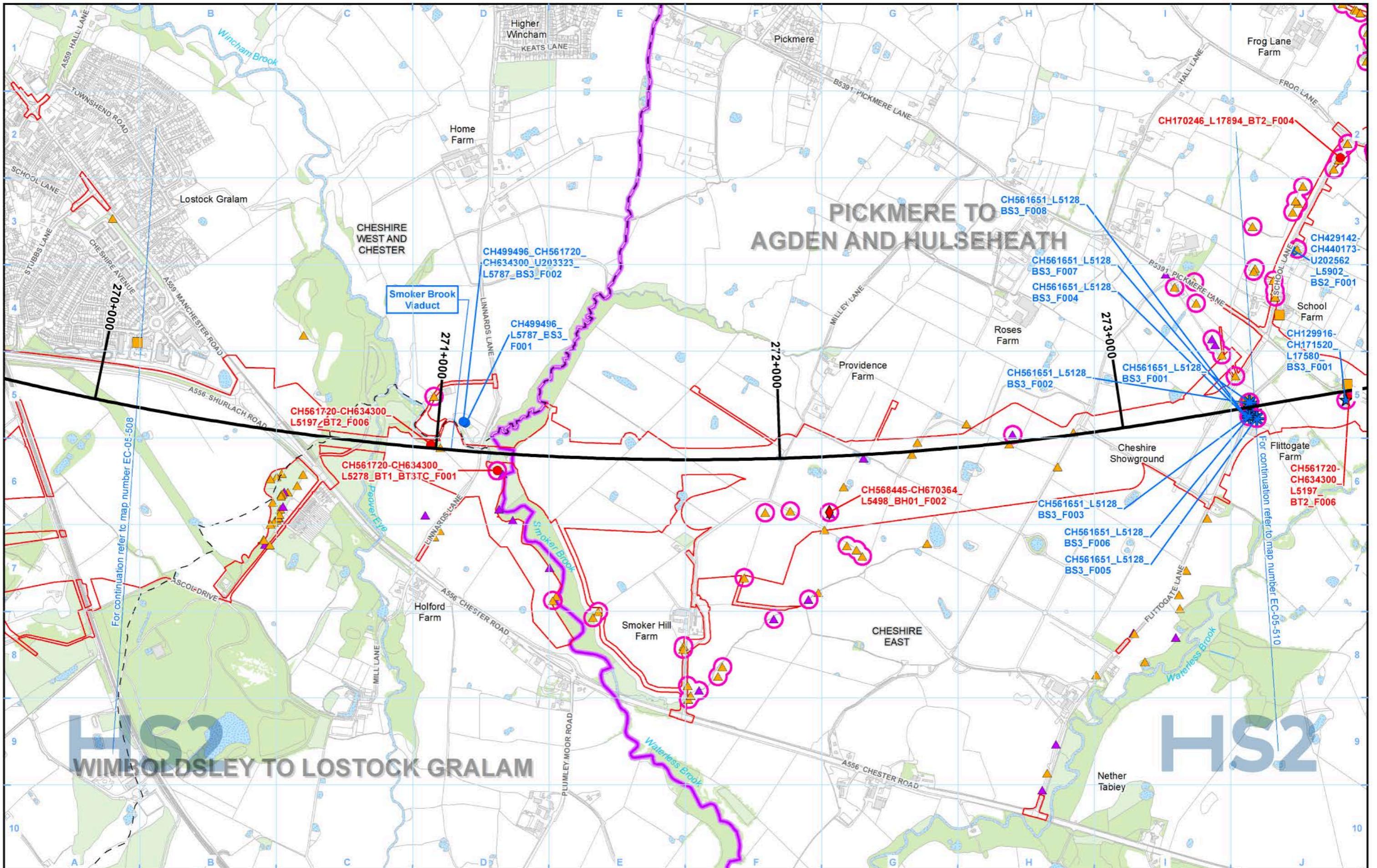
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Scale at A3: 1:100,000



Doc Number: 2PT27-MWJ-EV-MAP-M000-001030-P01

Date: 23/03/23



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)
- Area contains new survey data

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

Potential to support roosting bats - trees:

▲ High	▲ Moderate
--------	------------

Map Number	EC-05-509b
Map Name	Bat - Roosts SES2 and AP2 ES
Community Area MA03: Pickmere to Agden and Hulseheath	
Date: 31/03/23	



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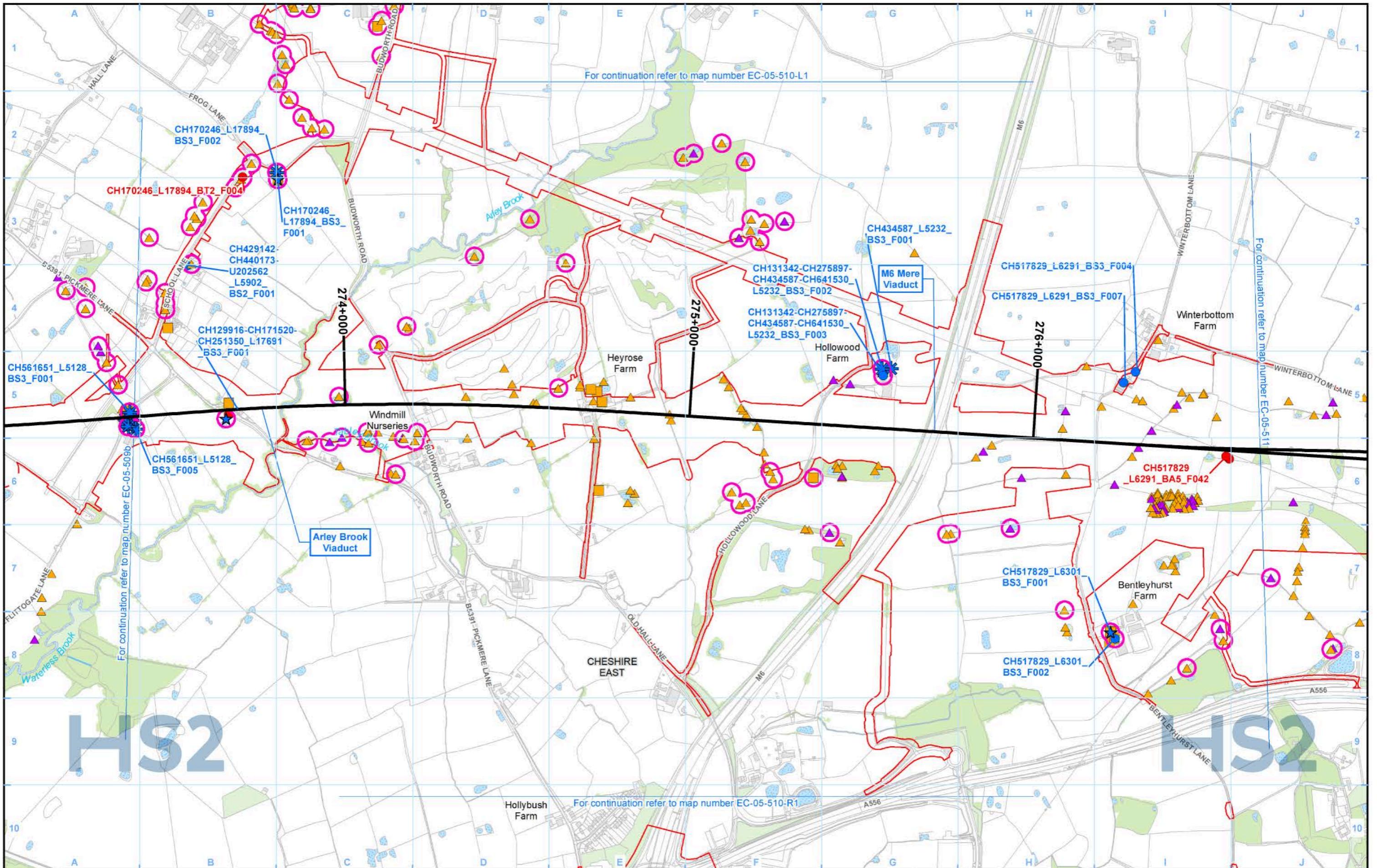


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Scale at A3: 1:10,000

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 (verified by survey)
- Area contains new survey data

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	■ Other roost
✖ Multiple roost types	✖ Multiple roost types	■ Multiple roost types

Potential to support roosting bats - trees:

▲ High	▲ Moderate
--------	------------

Map Number
EC-05-510
Map Name
Bat - Roosts
SES2 and AP2 ES
Community Area MA03:
Pickmere to Agden and Hulse Heath

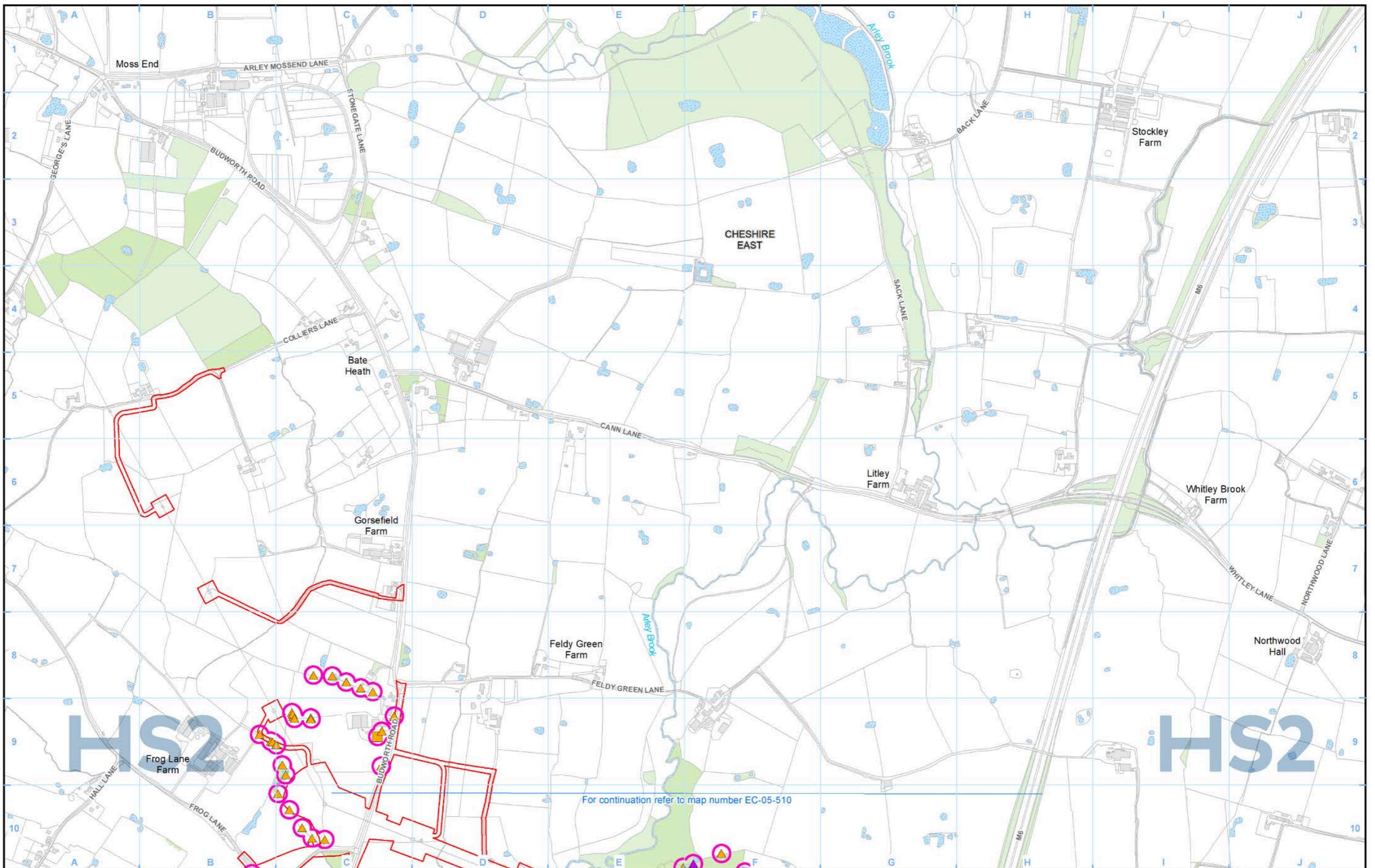


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Date: 31/03/23



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
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Area contains new survey data

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

Potential to support roosting bats - trees:

▲ High	▲ Moderate
--------	------------

Map Number
EC-05-510-L1
Map Name
Bat - Roosts
SES2 and AP2 ES
Community Area MA03:
Pickmere to Agden and Hulseheath



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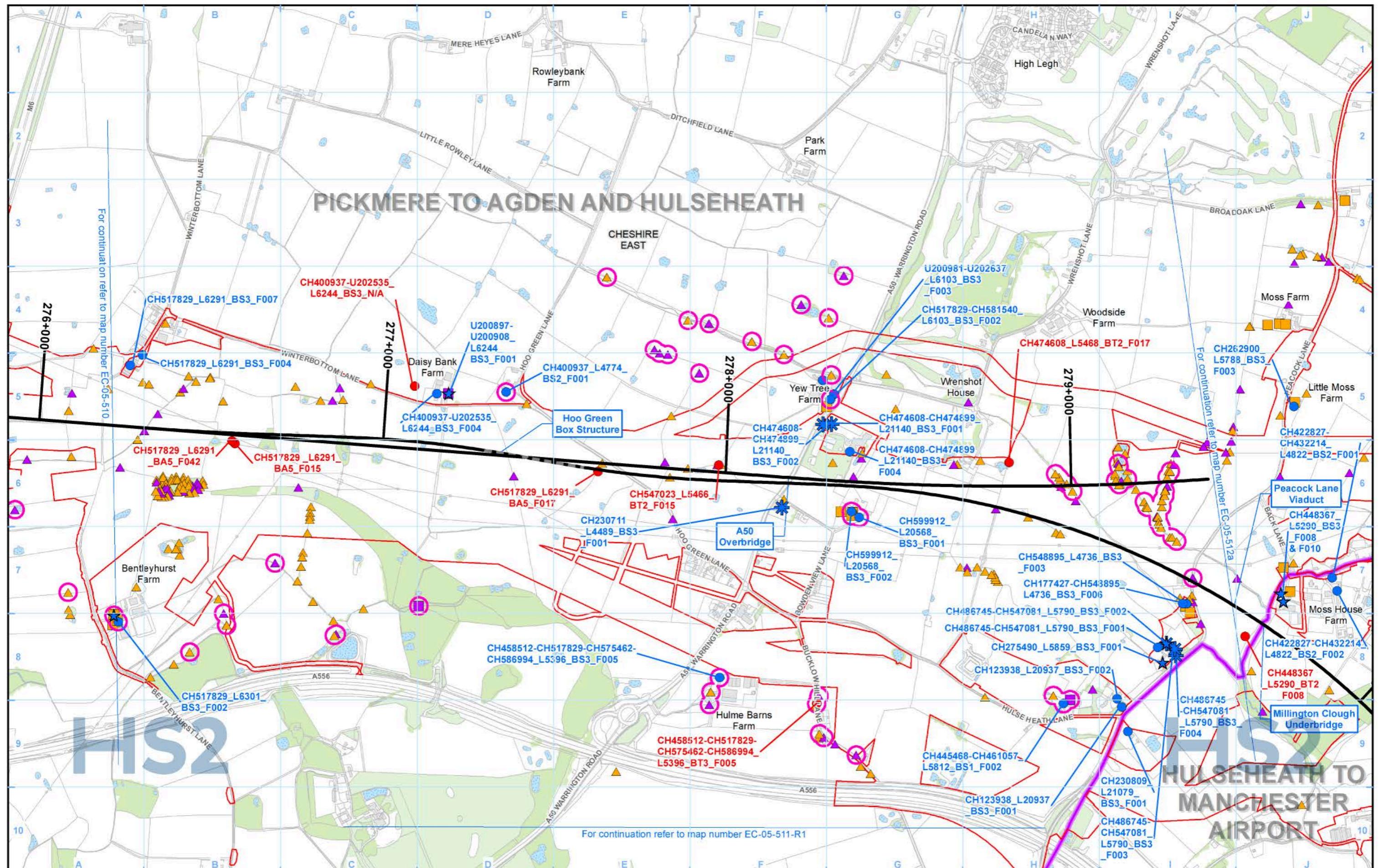
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Doc Number: 2PT27-MWJ-EV-MAP-M000-003614-P01

Date: 31/03/23





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)
- Area contains new survey data

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

Potential to support roosting bats - trees:

■ High
■ Moderate

Map Number
EC-05-511
Map Name
Bat - Roosts
SES2 and AP2 ES
Community Area MA03:
Pickmere to Agden and Hulseheath

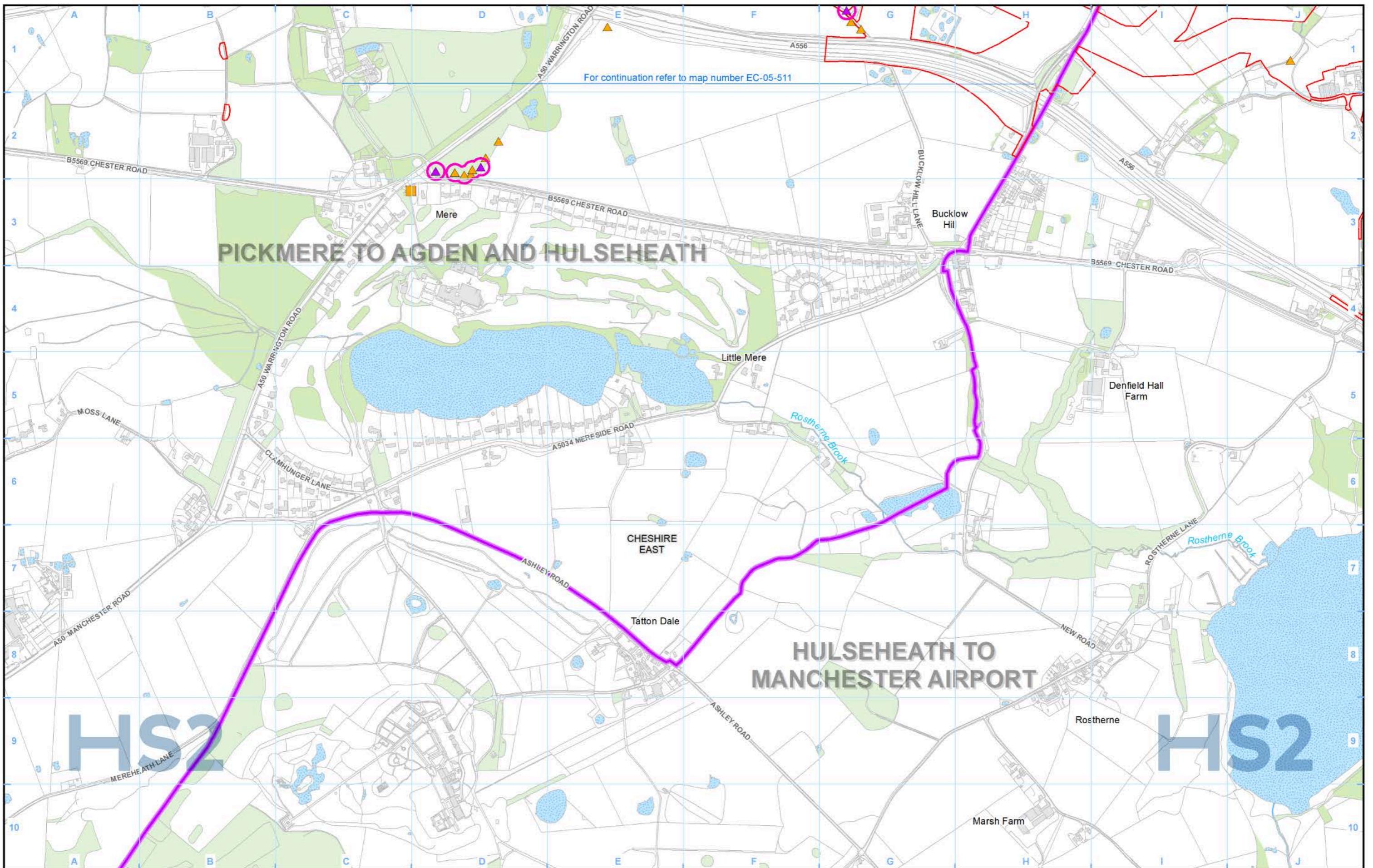


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Date: 31/03/23



Scale at A3: 1:10,000

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 (verified by survey)
- Area contains new survey data

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

Potential to support roosting bats - trees:

■ High
■ Moderate

Map Number
EC-05-511-R1
Map Name
Bat - Roosts
SES2 and AP2 ES
Community Area MA03:
Pickmere to Agden and Hulse Heath



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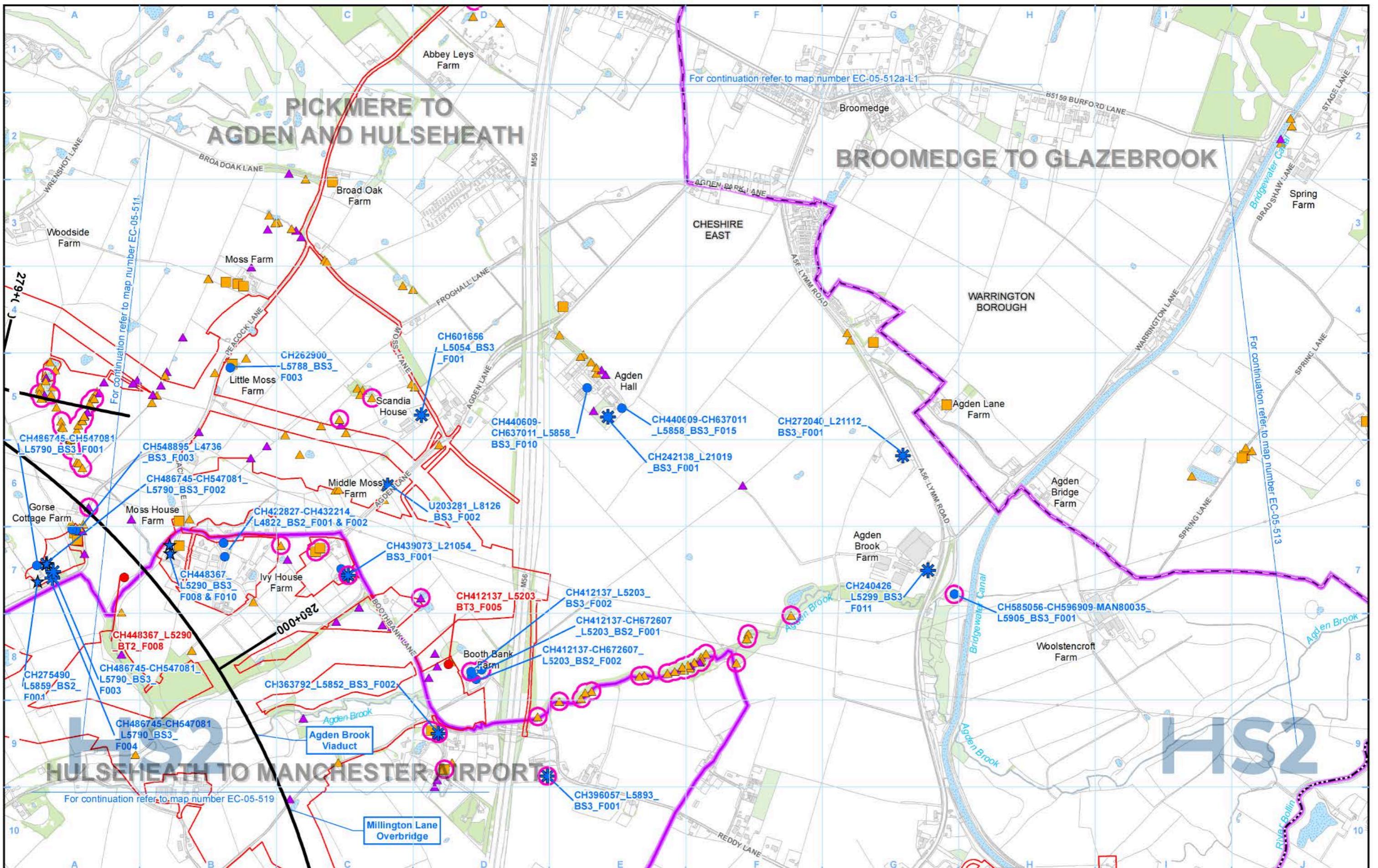
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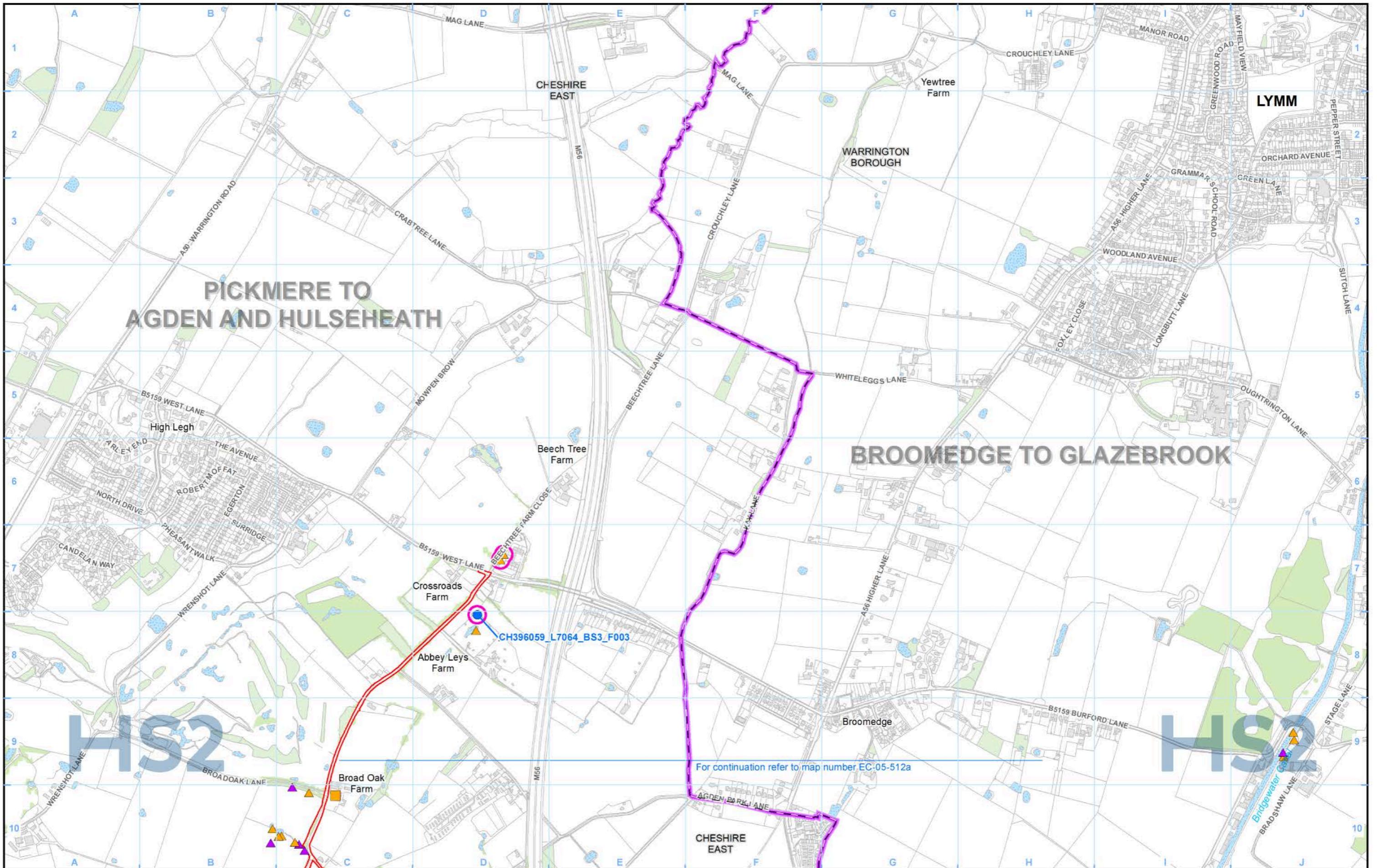
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Scale at A3: 1:10,000

0 100 200 300 400 Metres

Date: 31/03/23





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	Area contains new survey data
Community area boundary	Area contains new survey data
County boundary	
District/Borough boundary	

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

Potential to support roosting bats - trees:

▲ High
▲ Moderate

Map Number	EC-05-512a-L1
Map Name	Bat - Roosts SES2 and AP2 ES
Community Area MA03: Pickmere to Agden and Hulseheath	



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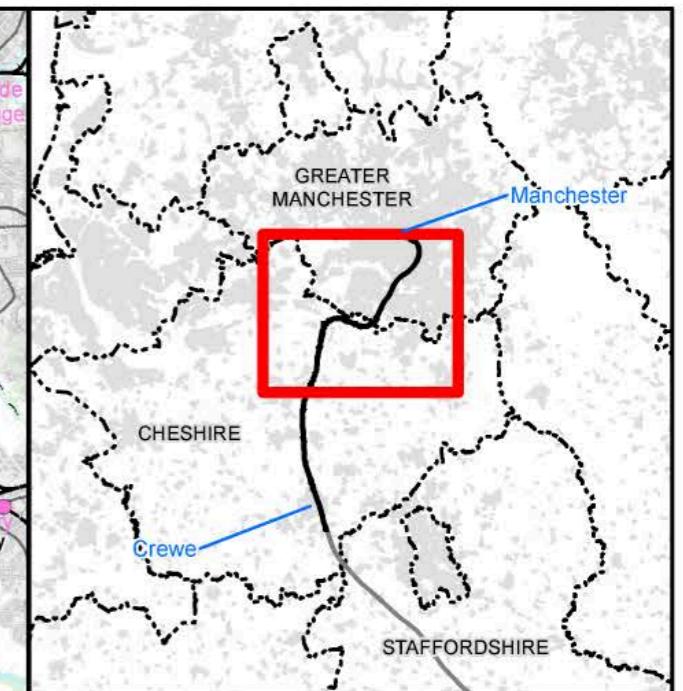
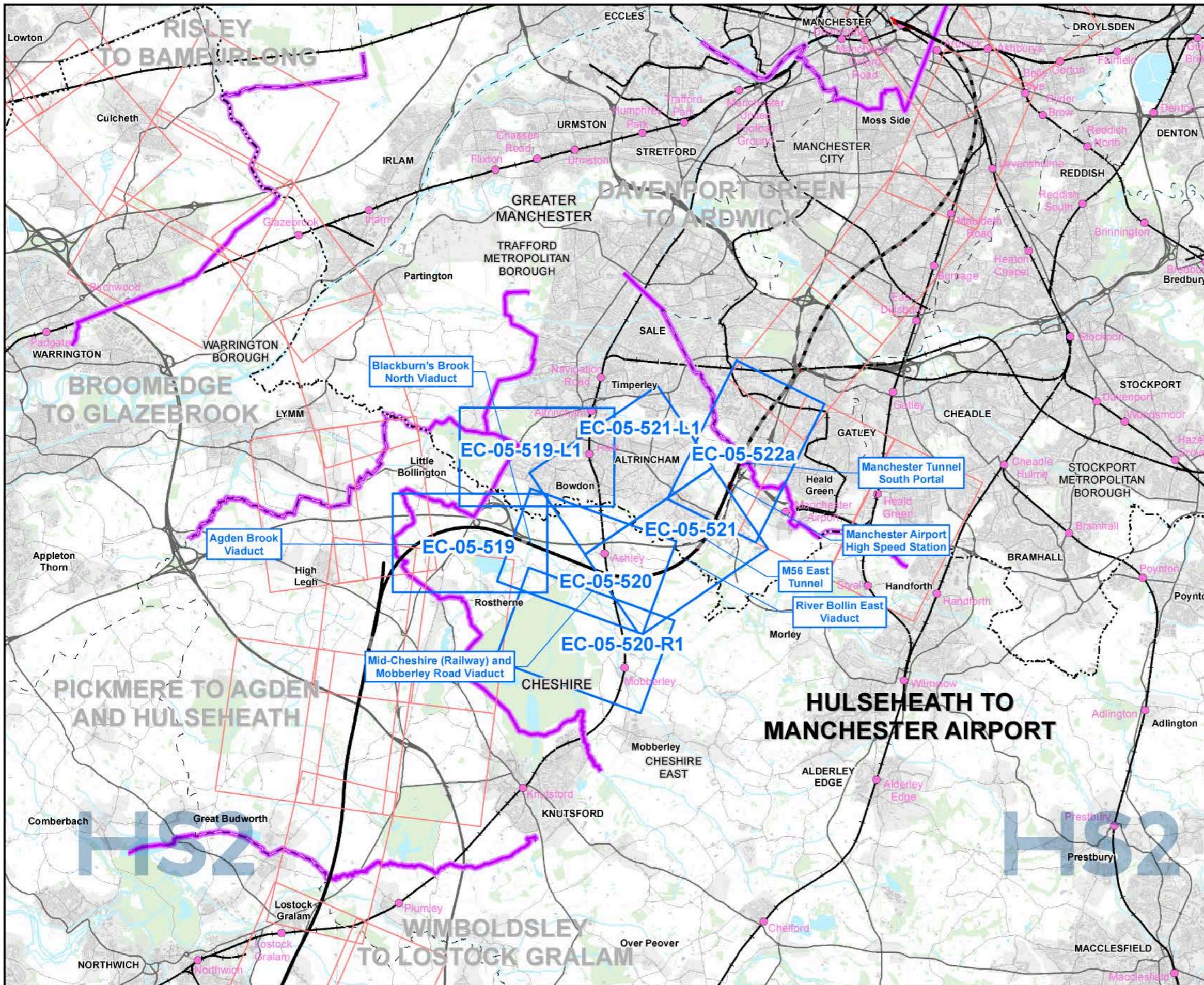
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Doc Number: 2PT27-MWJ-EV-MAP-M000-003615-P01



Scale at A3: 1:10,000

Date: 31/03/23



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.

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

PICKMERE TO AGDEN AND HULSEHEATH

For continuation refer to map number EC-05-519-L1

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281+000

282+000

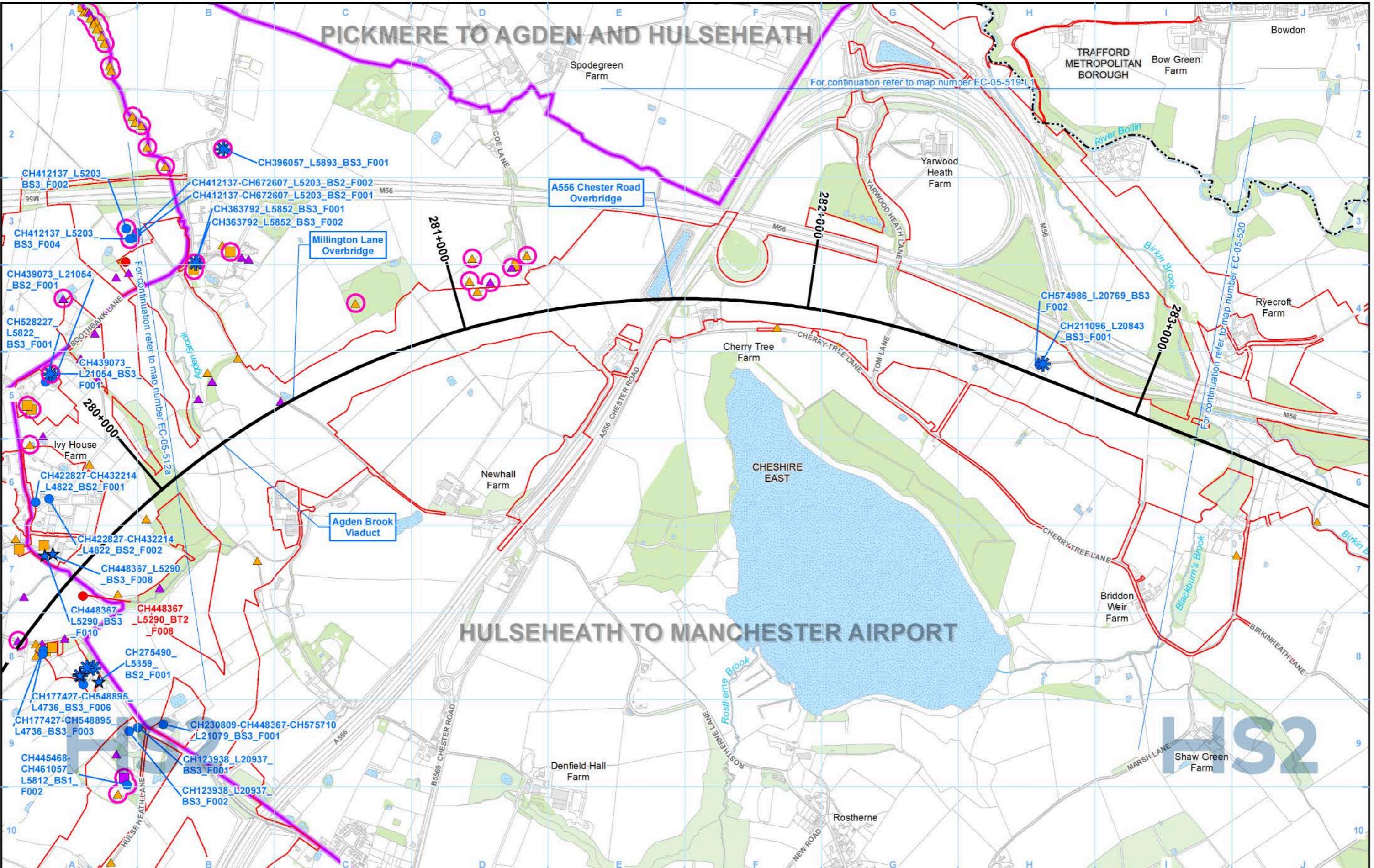
CH574986_L20769_BS3_F002

CH211096_L20843_BS3_F001

For continuation refer to map number EC-05-520

HULSEHEATH TO MANCHESTER AIRPORT

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)
 - Area contains new survey data

- | | | |
|--|------------------------|------------|
| 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 |
- Potential to support roosting bats - trees:
- ▲ High
 - ▲ Moderate

Map Number

EC-05-519

Map Name

**Bat - Roosts
SES2 and AP2 ES**

Community Area MA06:
Hulseheath to Manchester Airport

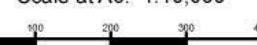
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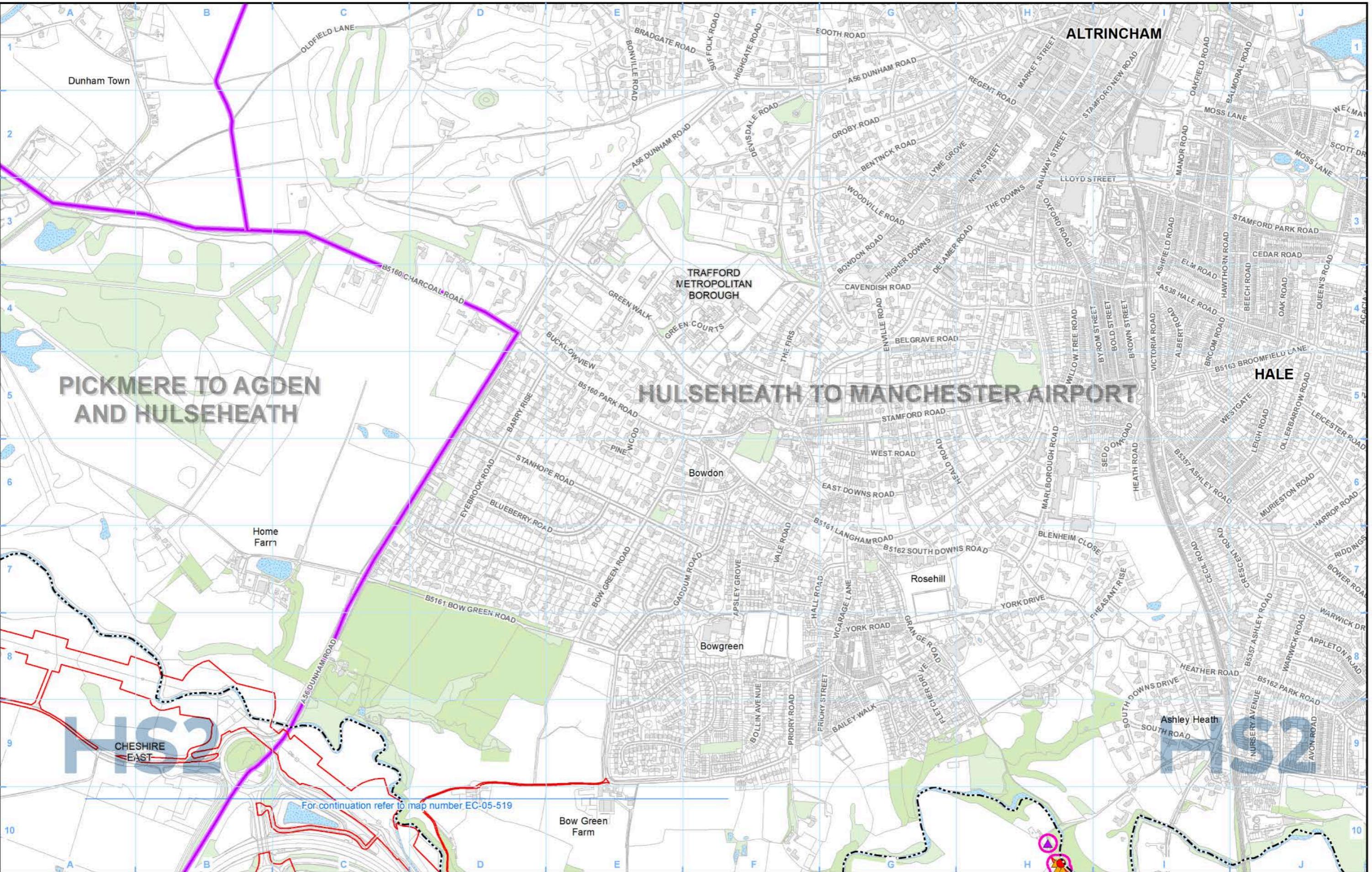
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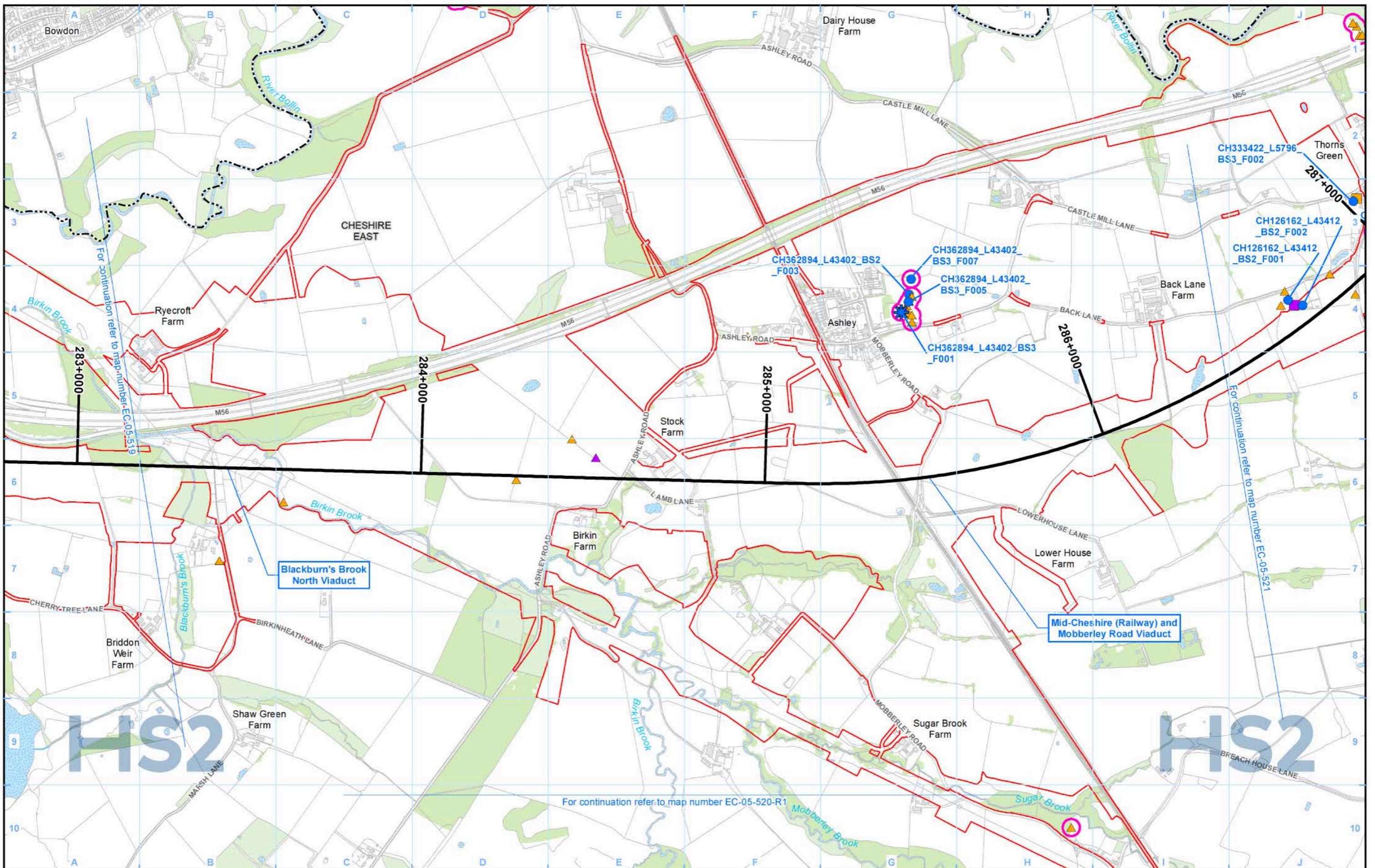
Doc Number: 2PT27-MWJ-EV-MAP-M000-001015-P01

Date: 31/03/23

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 (verified by survey)
- Area contains new survey data

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

Potential to support roosting bats - trees:

■ High
■ Moderate

Map Number
EC-05-520
Map Name
Bat - Roosts
SES2 and AP2 ES
Community Area MA06:
Hulseheath to Manchester Airport

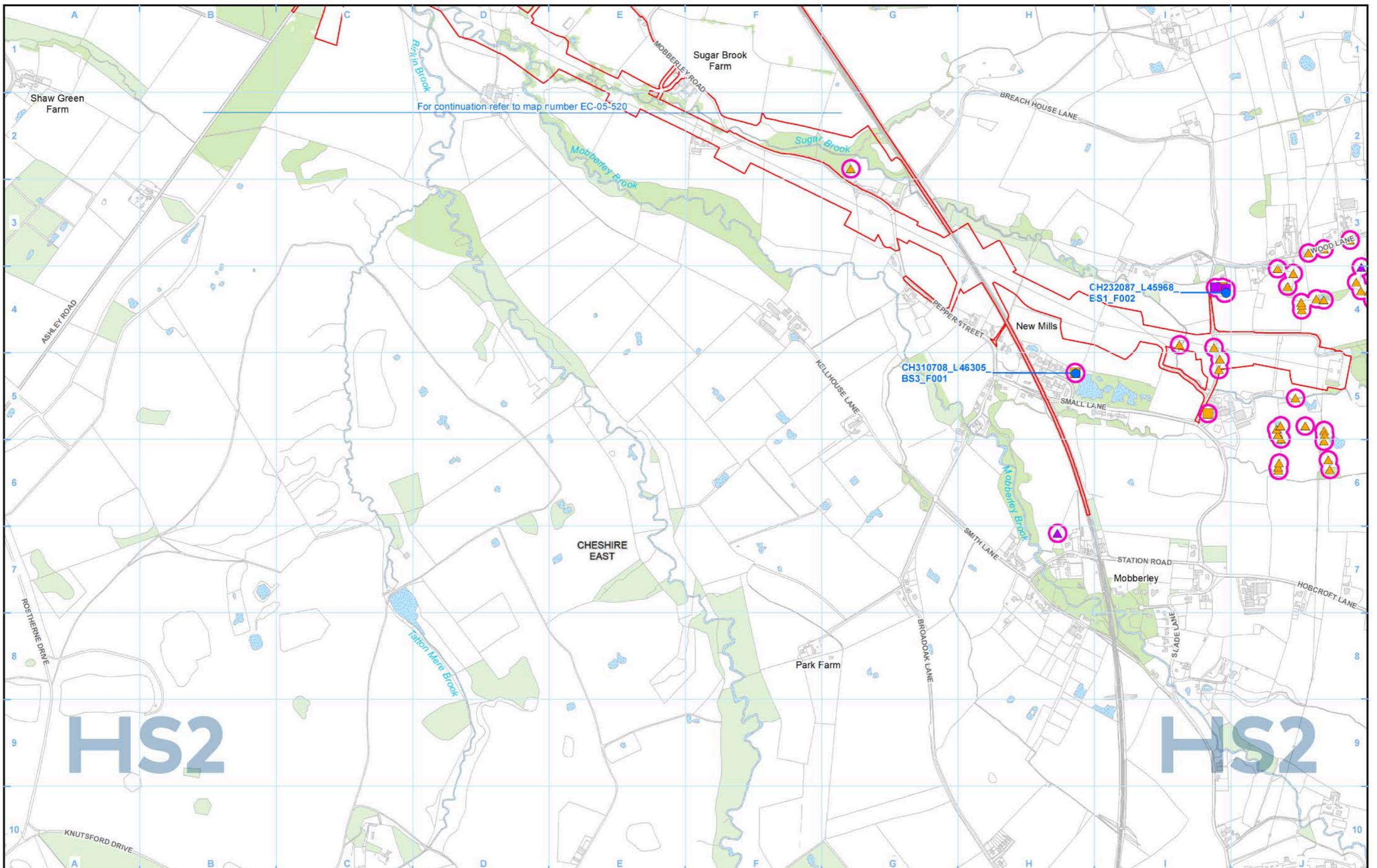


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Date: 31/03/23



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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 (verified by survey)
- Area contains new survey data

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

Potential to support roosting bats - trees:

▲ High	▲ Moderate
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Map Number: EC-05-520-R1
 Map Name: Bat - Roosts
 SES2 and AP2 ES
 Community Area MA06:
 Hulseheath to Manchester Airport



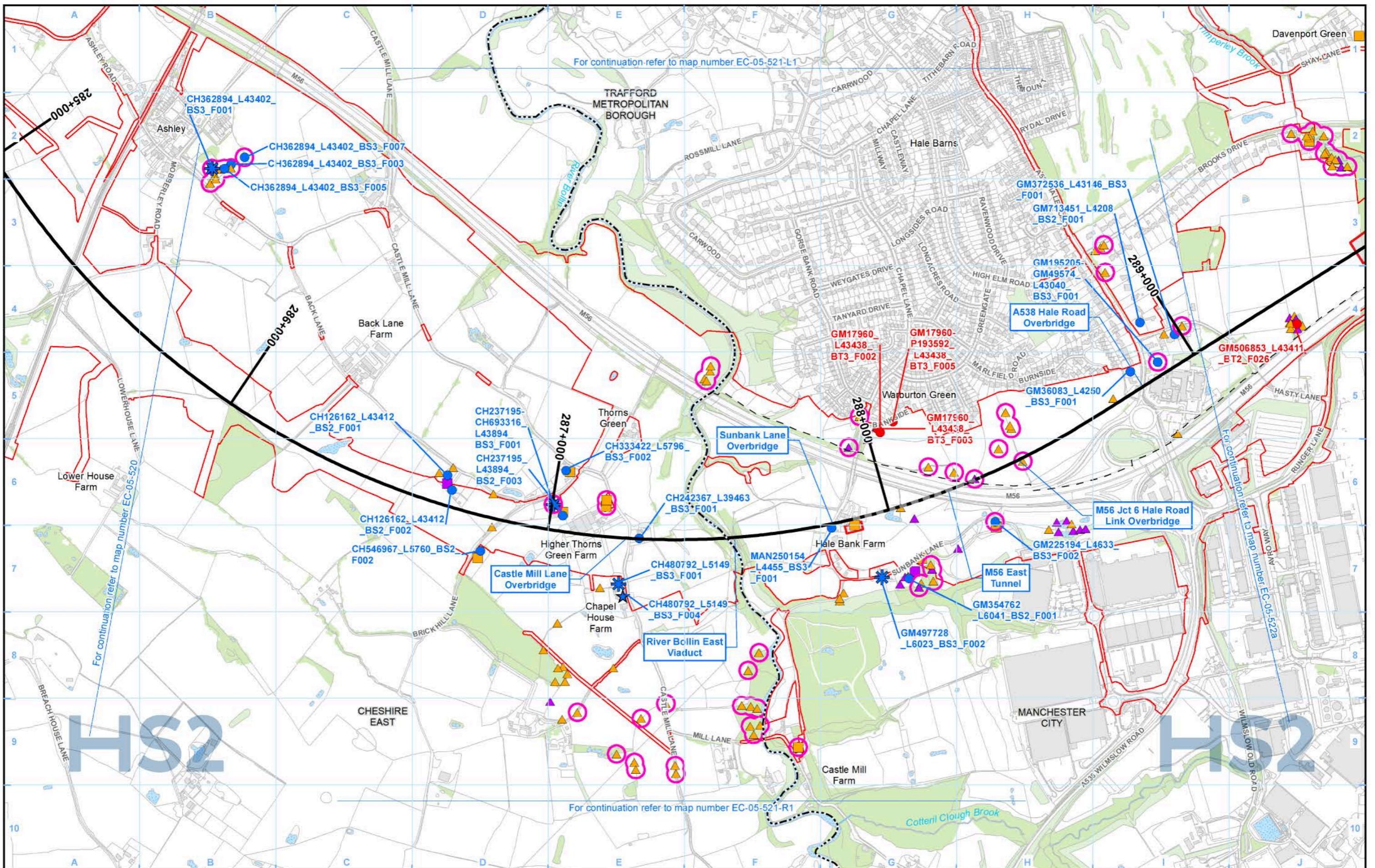
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 Date: 31/03/23



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	Area contains new survey data
Community area boundary	
County boundary	
District/Borough boundary	

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

Map Number	EC-05-521
Map Name	Bat - Roosts SES2 and AP2 ES
Community Area MA06: Hulseheath to Manchester Airport	
Doc Number:	2PT27-MWJ-EV-MAP-M000-001017-P01



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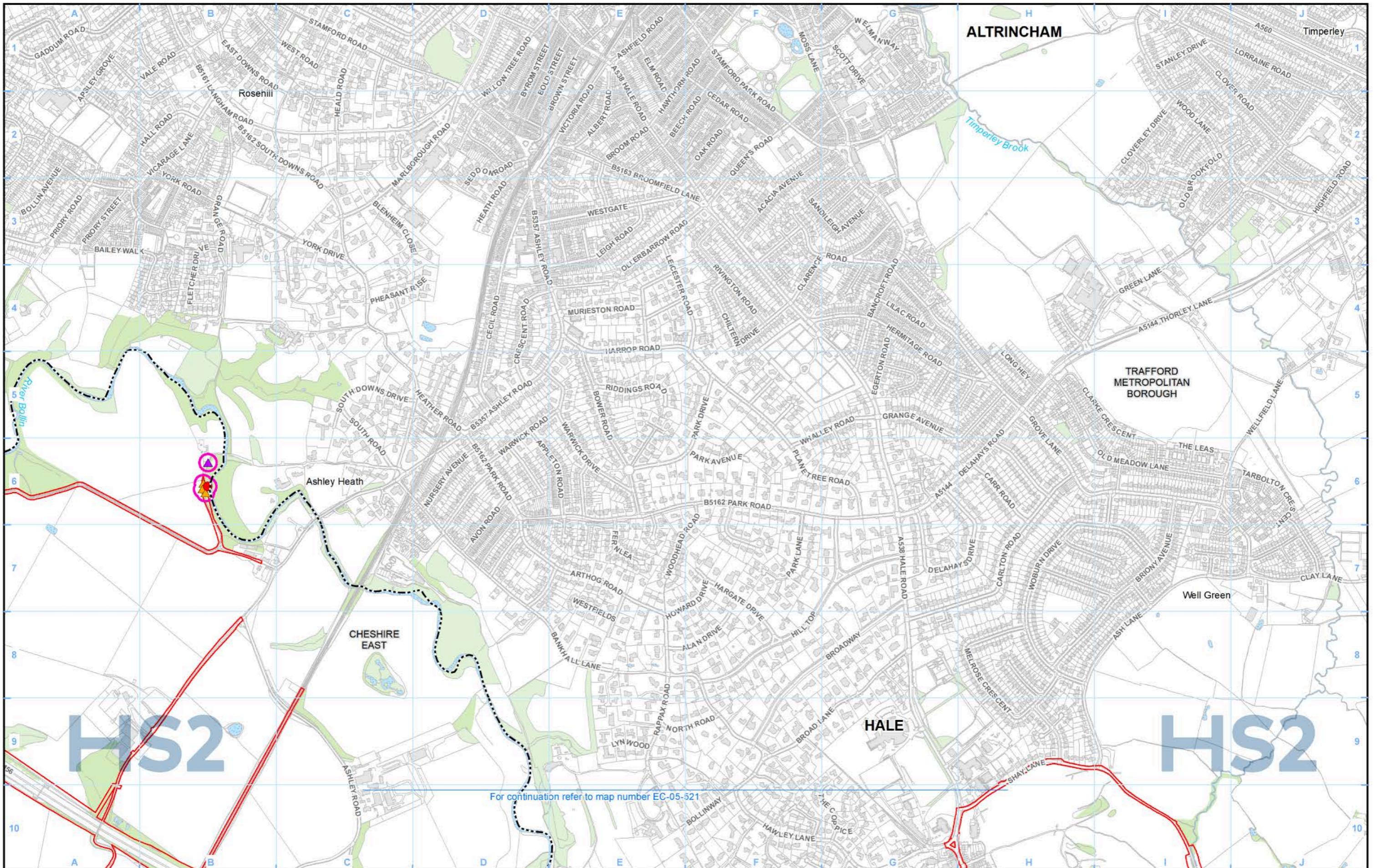
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Doc Number: 2PT27-MWJ-EV-MAP-M000-001017-P01



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	Area contains new survey data
Community area boundary	
County boundary	
District/Borough boundary	

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

Potential to support roosting bats - trees:

- ▲ High
- ▲ Moderate

Map Number	EC-05-521-L1
Map Name	Bat - Roosts SES2 and AP2 ES
Community Area MA06: Hulseheath to Manchester Airport	
Date: 31/03/23	



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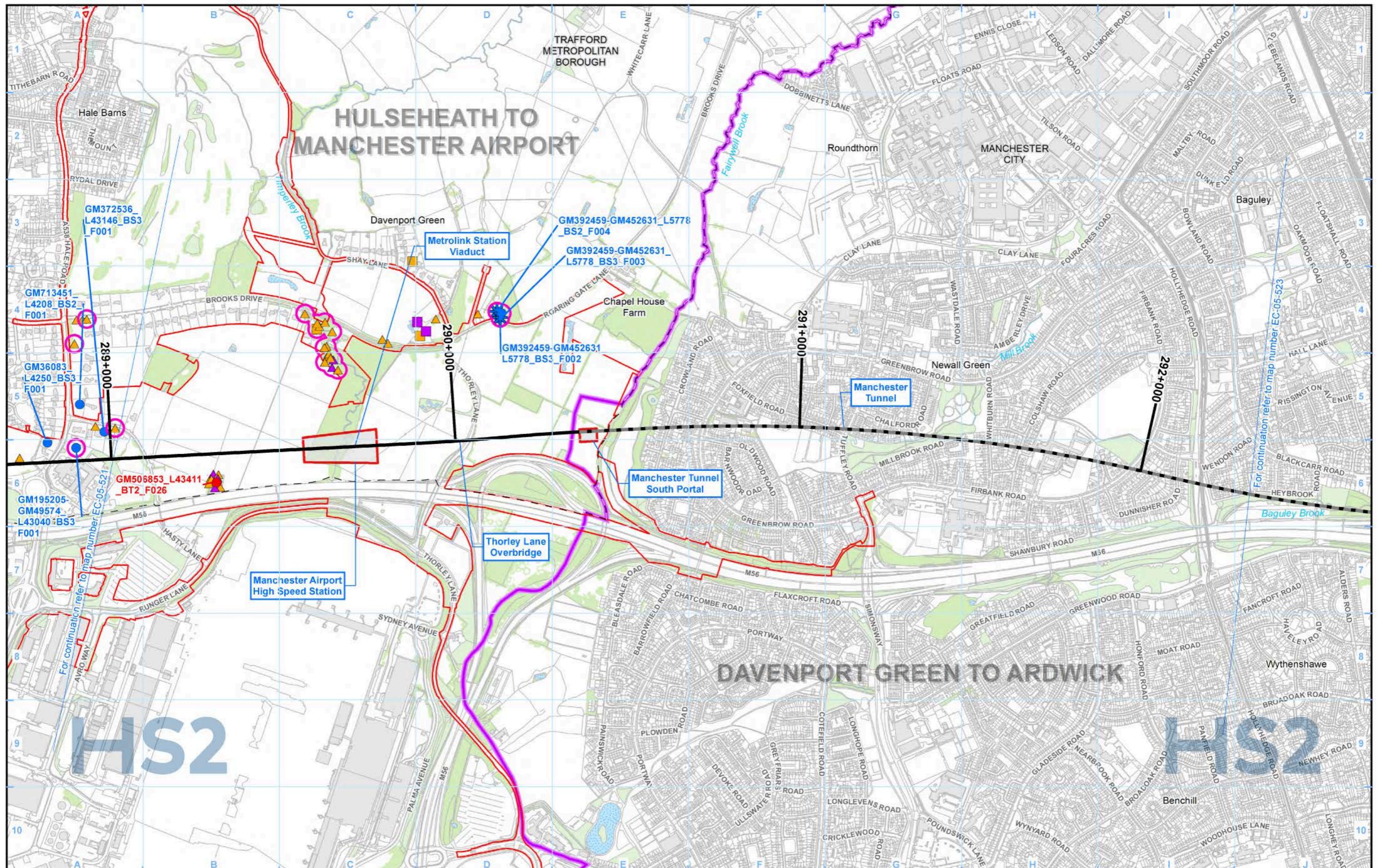
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Doc Number: 2PT27-MWJ-EV-MAP-M000-003668-P01



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)
Area contains new survey data

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-05-522a
Map Name Bat - Roosts SES2 and AP2 ES
Community Area MA06: Hulseheath to Manchester Airport



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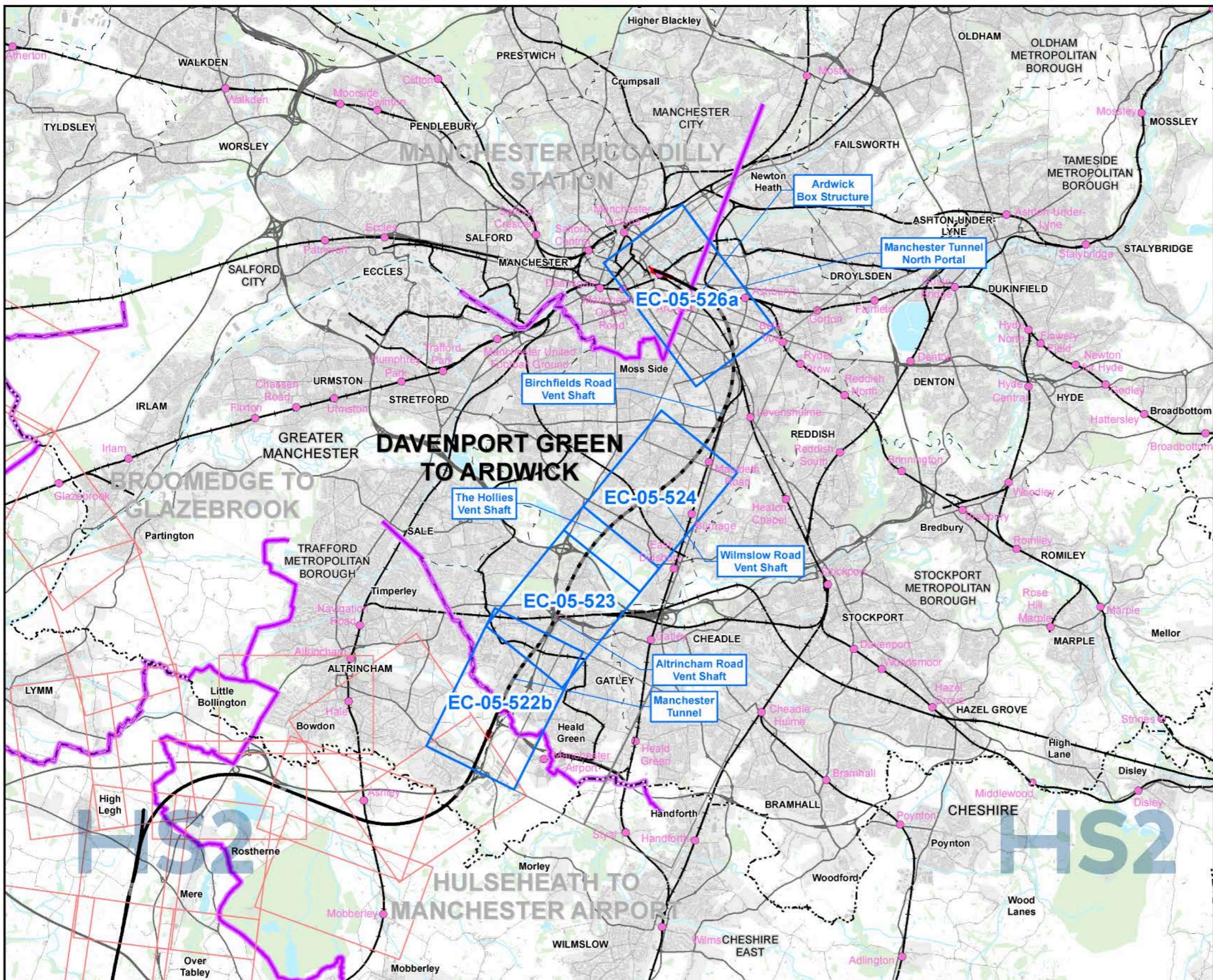
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Doc Number: 2PT27-MWJ-EV-MAP-M000-001018-P01



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Date: 31/03/23



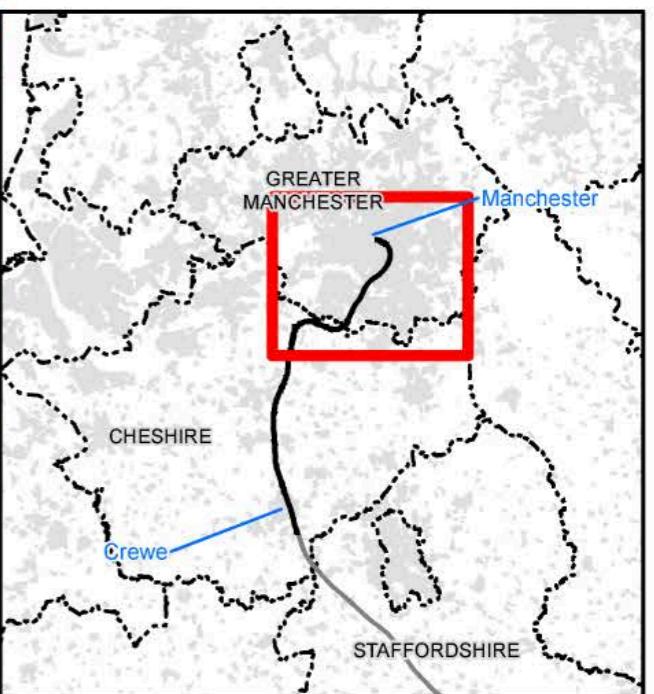
Main Map Legend

- 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 included in this community area with no amendment
- Map sheets not included in this community area

Map Number: EC-05-INDEX-MA07
Map Name: Index Map of: Bat - Roosts SES2 and AP2 ES
Community Area MA07: Davenport Green to Ardwick

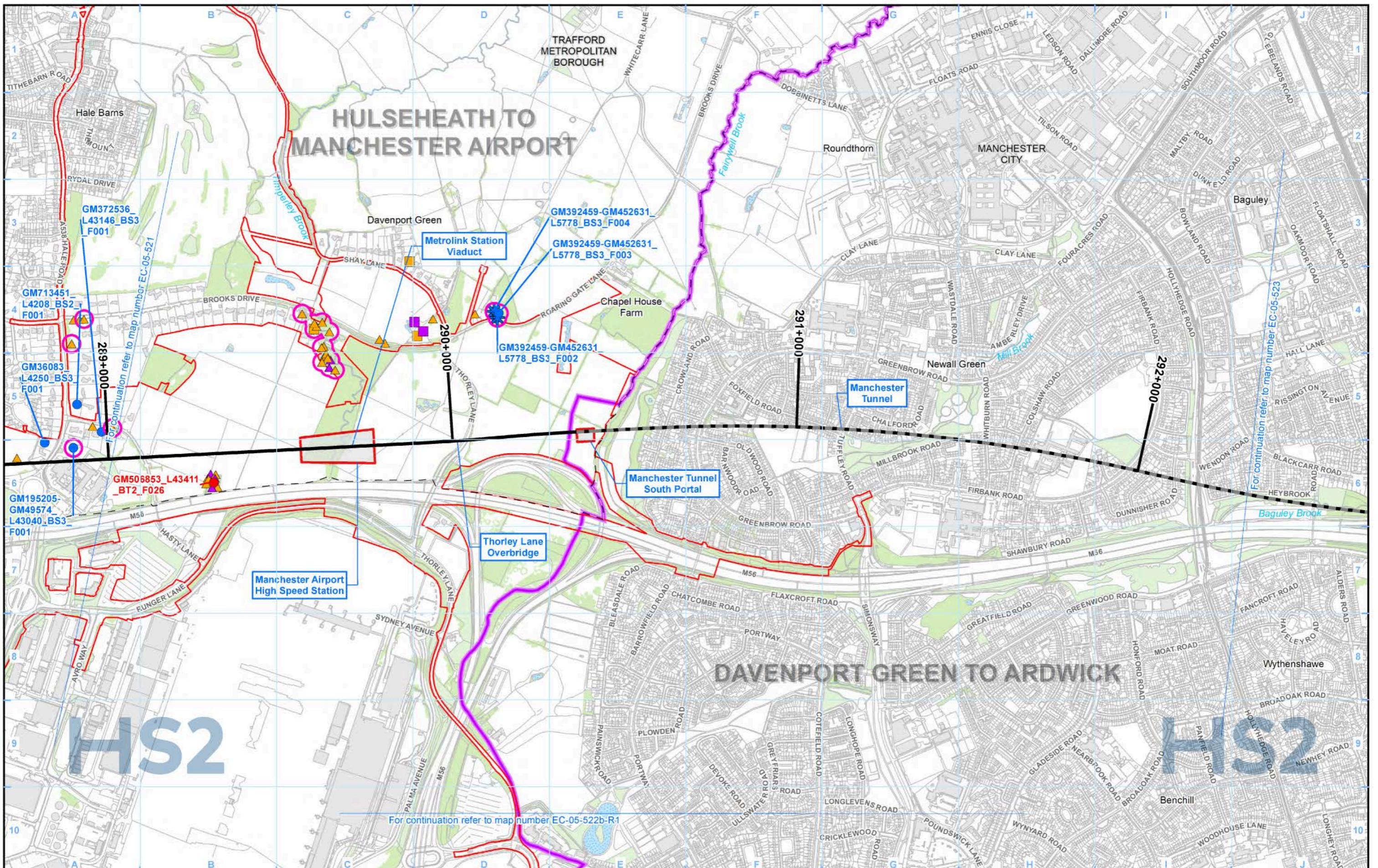
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 Doc Number: 2PT27-MWJ-EV-MAP-M000-001034-P01 Date: 23/03/23



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.

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



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)
Area contains new survey data

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 - Roosts SES2 and AP2 ES
Community Area MA07: Davenport Green to Ardwick



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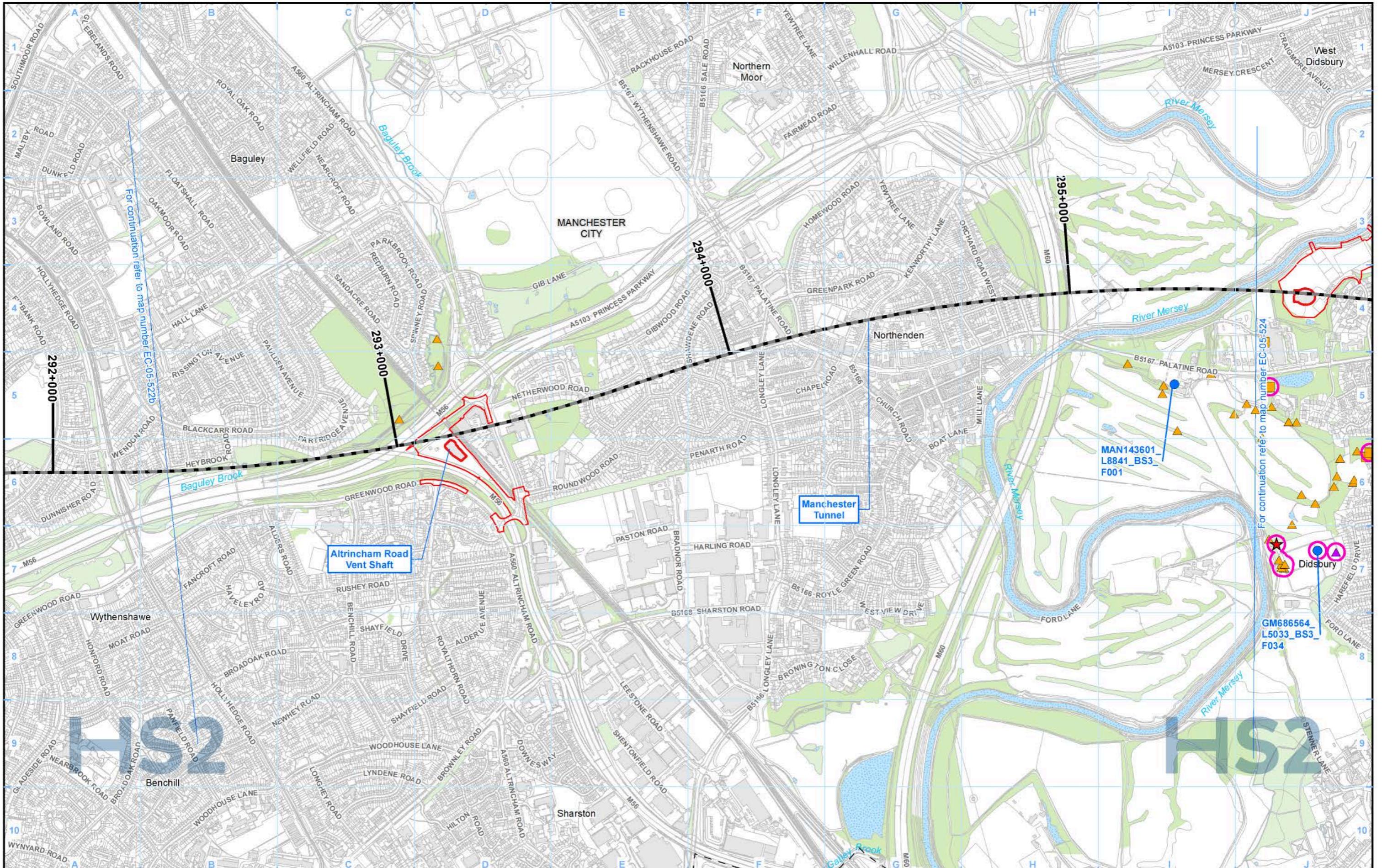
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Date: 03/04/23



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)
- Area contains new survey data

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-05-523
Map Name Bat - Roosts SES2 and AP2 ES
Community Area MA07: Davenport Green to Ardwick



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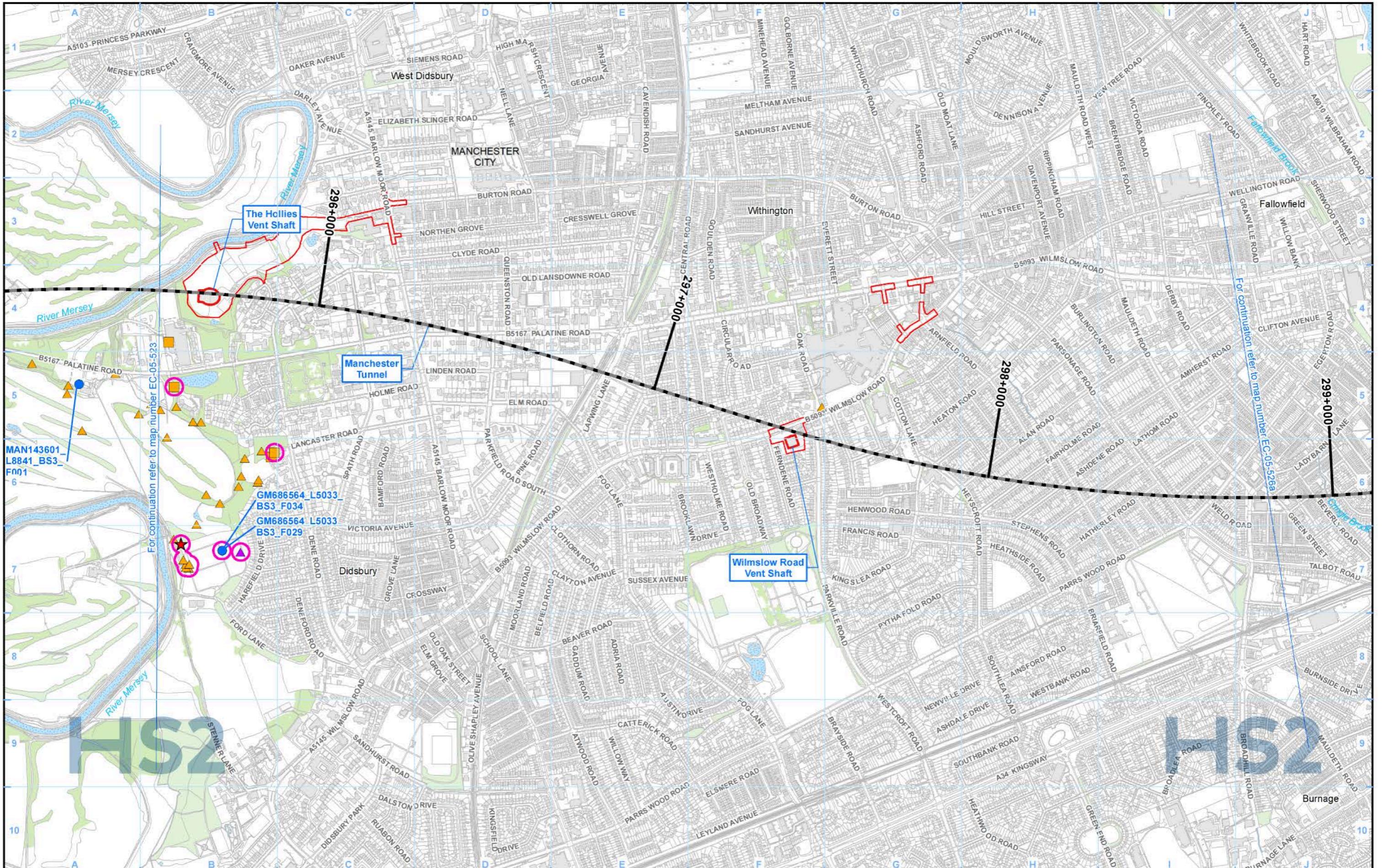
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Doc Number: 2PT27-MWJ-EV-MAP-M000-001020-P01



Scale at A3: 1:10,000

Date: 31/03/23



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)
■ Area contains new survey data

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

Potential to support roosting bats - trees:

▲ High	▲ Moderate
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Map Number	EC-05-524
Map Name	Bat - Roosts SES2 and AP2 ES
Community Area MA07: Davenport Green to Ardwick	
Doc Number:	2PT27-MWJ-EV-MAP-M000-001021-P01



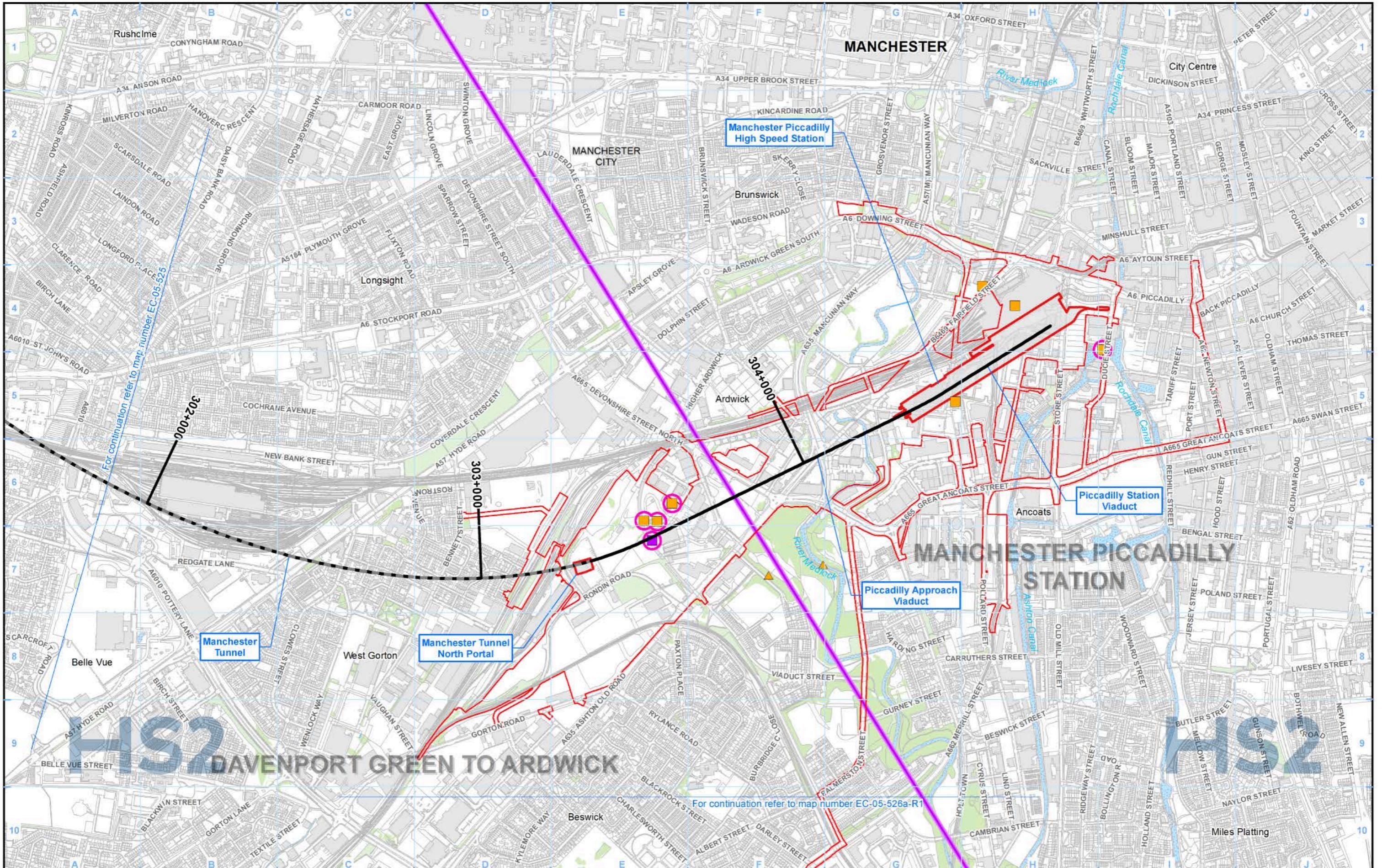
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0 100 200 300 400 Metres

Date: 31/03/23



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	Area contains new survey data
Community area boundary	
County boundary	
District/Borough boundary	

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

Potential to support roosting bats - trees:

▲ High
▲ Moderate

Map Number	EC-05-526a
Map Name	Bat - Roosts SES2 and AP2 ES
Community Area MA07: Davenport Green to Ardwick	
Date: 31/03/23	



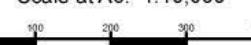
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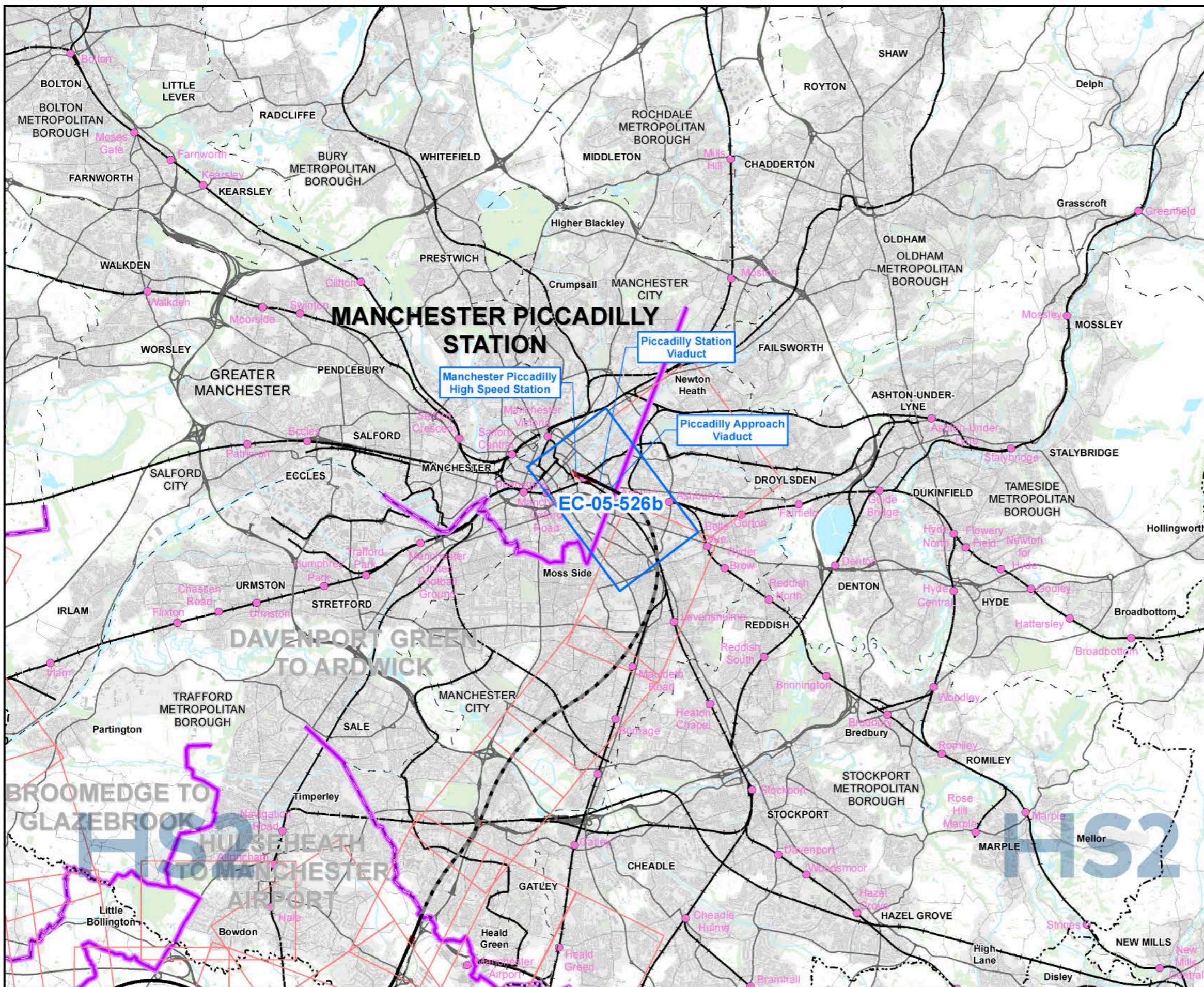


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Main Map Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary

- Map sheets included in this community area
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number: EC-05-INDEX-MA08

Map Name: Index Map of:
Bat - Roosts
SES2 and AP2 ES

Community Area MA08:
Manchester Piccadilly Station

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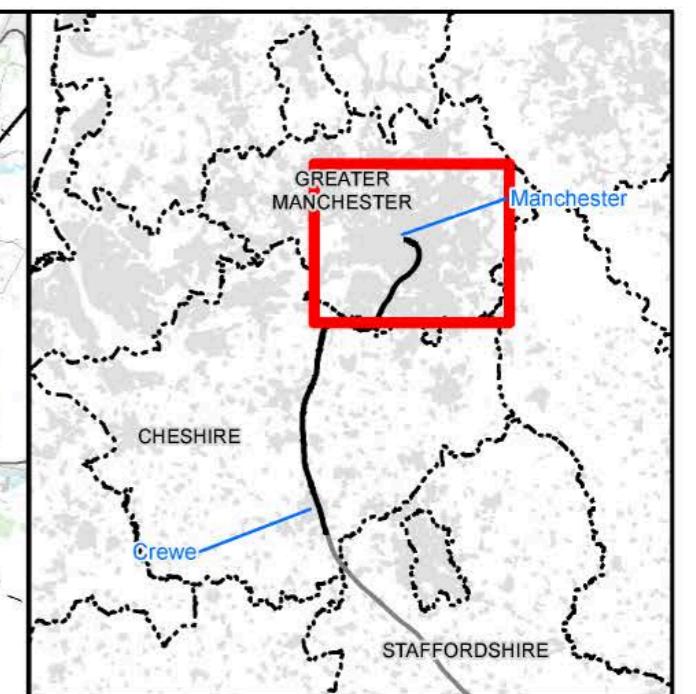
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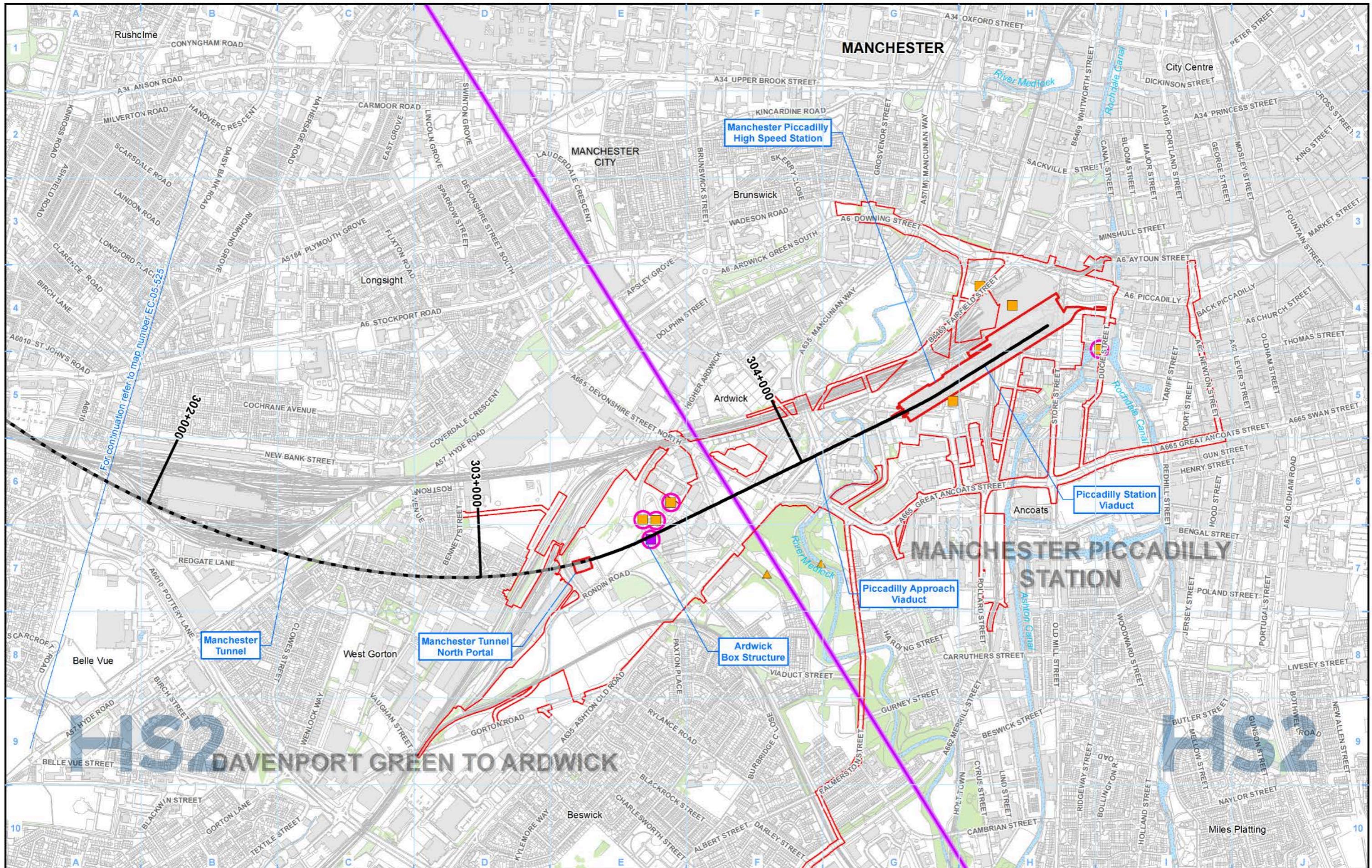
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Map Series Information:

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.

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



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)
 - Area contains new survey data

Confirmed bat roost - trees: Confirmed bat roost - building: Potential to support roosting bats - buildings:

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

- High
 - Moderate

Potential to support roosting bats - trees:

 - ▲ High
 - ▲ Moderate

Map Number

EC-05-526b

Bat - Roosts
SES2 and AP2 ES

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Community Area MA08:
Manchester Piccadilly Station

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