

High Speed Rail (Crewe – Manchester)

Background information and data

Map Book

Ecology

(EC-02, EC-04, EC-05, EC-06, EC-07, EC-08,
EC-09, EC-10, EC-11, EC-12) Part 4

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(EC-02, EC-04, EC-05, EC-06, EC-07, EC-08,
EC-09, EC-10, EC-11, EC-12) Part 4



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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Map series name	Map series description	Map book part
EC-02 - Phase 1 Habitat (1:10,000)	This map series shows Phase 1 habitat survey information for land required and within 250m of the CCB of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field surveys, or the area mapped is between 250-500m from the CCB, the information is based on available desk studies and interpretation of aerial photography.	Background Information and Data map book – Ecology Part 1
EC-04 - Amphibians	This map series shows the results of amphibian surveys conducted to inform the Environmental Statement. It principally details the results of Great Crested Newt surveys. In addition, it shows the location of any 'exceptional' populations of common amphibians recorded.	Background Information and Data map book – Ecology Part 2
EC-05 – Bat - Roost	This map series shows results of field surveys conducted to investigate the potential for trees, buildings, or structures to support roosting bats. It shows the location of roosts confirmed by field surveys and features identified as having a high or moderate potential to support roosting bats.	Background Information and Data map book – Ecology Part 3
EC-06 – Bat - Activity	This map series shows the location of bat activity surveys conducted to inform the Environmental Statement. In addition, it shows the location of the key bat foraging and commuting routes, which have been established based on the survey work conducted.	Background Information and Data map book – Ecology Part 3
EC-07 - Reptiles	This map series shows the extent and results of survey work for common reptiles, undertaken to inform the Environmental Statement.	Background Information and Data map book – Ecology Part 2
EC-08 - Breeding Birds – Protected and Notable Species	This map series shows records of protected and/or notable breeding birds considering the impacts of the Proposed Scheme. The location of nest sites for species, such as Barn Owl and raptor species which may be liable to persecution, are not displayed.	Background Information and Data map book – Ecology Part 4
EC-09 - Wintering and Passage Birds – Protected and Notable Species	This map series shows records of selected protected and/or notable wintering birds considering the impacts of the Proposed Scheme.	Background Information and Data map book – Ecology Part 4
EC-10 - Phase 2 Habitat Survey	This map series shows the extent of detailed habitat surveys undertaken to inform the Environmental Statement. The map shows the location of hedgerows that qualify as 'Important hedgerows' under the Hedgerows Regulations (1997).	Background Information and Data map book – Ecology Part 1
EC-11 - Other Protected and Notable Species (1)	This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.	Background Information and Data map book – Ecology Part 5
EC-12 - Other Protected and Notable Species (2)	This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.	Background Information and Data map book – Ecology Part 5

Mapping explanatory notes

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

Copyright statements

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

Ordnance Survey data

All maps produced as part of the ES contain Ordnance Survey (OS) data. HS2 Ltd use the most up to date mapping available, where possible, supplied by the OS and as such, we cannot be held responsible for any inaccuracies within this data. As part of our licence conditions, all digital maps carry a watermark.

Chainage

Most of the maps presented as part of the ES have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XXX+YYY, e.g. 192+000 or 239+500.

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

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

Map orientation

The maps presented in these map books are presented with the railway alignment running horizontally across the page. The direction of travel to London would be following the alignment to the left hand side of the page, and Leeds or Manchester to the right.

High Speed Rail (Crewe - Manchester)

Background Information and Data
Data dictionary and definitions

Data dictionary and definitions

Legend features	Definition	Source	Copyright
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 eight sections called Community Areas.	High Speed Two (HS2) Ltd	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
Depot, station, headhouse or portal building	Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures.	High Speed Two (HS2) Ltd	
District/borough/Unitary authority boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
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	
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	
Route in tunnel	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
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	

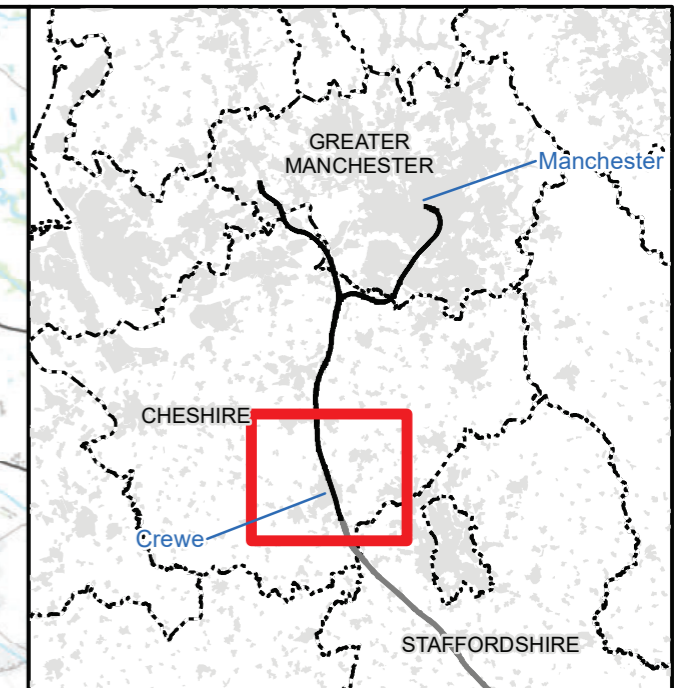
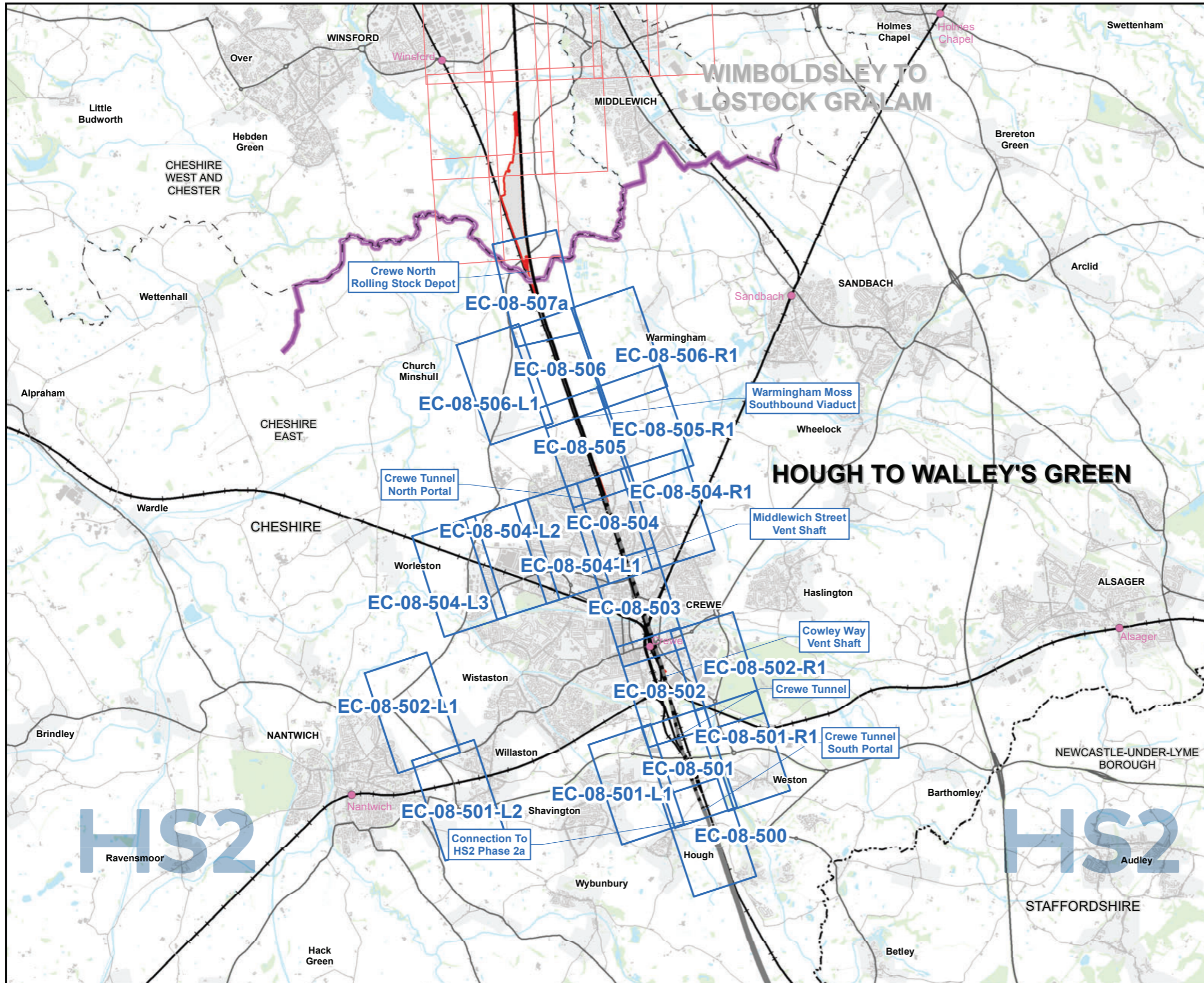
Legend features	Definition	Source	Copyright
Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Field survey records of selected protected and/or notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds.	High Speed Two (HS2) Ltd	
Species listed on Birds and Conservation Concern list 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	
Species listed on Schedule 1 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 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 2019.
Watercourse	Any channel through which water flows, can be natural or manmade. They are split into two categories (main rivers or ordinary watercourses) in England and Wales for regulation purposes.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
Wintering & passage birds - survey extent	Area where wintering and passage birds survey was conducted.	High Speed Two (HS2) Ltd	
Woodland (verified by survey)	Woodland areas derived from Ordnance Survey MasterMap data, limited in extent to 500m from the CCB.	High Speed Two (HS2) Ltd	

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High Speed Rail (Crewe - Manchester)

Background Information and Data

EC-08 - Breeding Birds - Protected and Notable Species



Map Series Information:

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.

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

Map Number EC-08-INDEX-MA01

Map Name Index Map of:
Breeding Birds – Protected and Notable Species

Community Area MA01:
Hough to Walley's Green

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BTO SPECIES CODES

AC	Arctic Skua	D.	Dunnoek	K.	Kestrel	RN	Raven	SG	Starling
AE	Arctic Tern	EG	Egyptian Goose	KF	Kingfisher	RA	Razorbill	SD	Stock Dove
AV	Avocet	E.	Eider	KI	Kittiwake	RG	Red Grouse	SC	Stonechat
BO	Barn Owl	FP	Feral Pigeon	KN	Knot	KT	Red Kite	TN	Stone-curlew
BY	Barnacle Goose	ZL	Feral/hybrid goose	LM	Lady Amherst's Pheasant	ED	Red-backed Shrike	TM	Storm Petrel
BA	Bar-tailed Godwit	ZF	Feral/hybrid mallard type	LA	Lapland Bunting	RM	Red-breasted Merganser	SL	Swallow
BR	Bearded Tit	FF	Fieldfare	L.	Lapwing	RQ	Red-crested Pochard	SI	Swift
BS	Berwick's Swan	FC	Firecrest	TL	Leach's Petrel	FV	Red-footed Falcon	TO	Tawny Owl
BI	Bittern	F.	Fulmar	LB	Lesser Black-backed Gull	RL	Red-legged Partridge	T.	Teal
BK	Black Grouse	GA	Gadwall	LS	Lesser Spotted Woodpecker	NK	Red-necked Phalarope	TK	Temminck's Stint
TY	Black Guillemot	GX	Gannet	LW	Lesser Whitethroat	LR	Redpoll (Lesser)	TP	Tree Pipit
BX	Black Redstart	GW	Garden Warbler	LI	Linnet	RK	Redshank	TS	Tree Sparrow
BJ	Black Tern	GY	Garganey	ET	Little Egret	RT	Redstart	TC	Treecreeper
B.	Blackbird	GC	Goldcrest	LG	Little Grebe	RH	Red-throated Diver	TU	Tufted Duck
BC	Blackcap	EA	Golden Eagle	LU	Little Gull	RE	Redwing	TT	Turnstone
BH	Black-headed Gull	OL	Golden Oriole	LO	Little Owl	RB	Reed Bunting	TD	Turtle Dove
BN	Black-necked Grebe	GF	Golden Pheasant	LP	Little Ringed Plover	RW	Reed Warbler	TW	Twite
BW	Black-tailed Godwit	GP	Golden Plover	AF	Little Tern	RZ	Ring Ouzel	WA	Water Rail
BV	Black-throated Diver	GN	Goldeneye	LE	Long-eared Owl	RP	Ringed Plover	W.	Wheatear
BT	Blue Tit	GO	Goldfinch	LT	Long-tailed Tit	RI	Ring-necked Parakeet	WM	Whimbrel
BU	Bluethroat	GD	Goosander	MG	Magpie	R.	Robin	WC	Whinchat
BL	Brambling	GI	Goshawk	MA	Mallard	DV	Rock Dove (not feral)	WG	White-fronted Goose
BG	Brent Goose	GH	Grasshopper Warbler	MN	Mandarin Duck	RC	Rock Pipit	WH	Whitethroat
BF	Bullfinch	GB	Great Black-backed Gull	MX	Manx Shearwater	RO	Rook	WS	Whooper Swan
BZ	Buzzard	GG	Great Crested Grebe	MR	Marsh Harrier	RS	Roseate Tern	WN	Wigeon
CG	Canada Goose	ND	Great Northern Diver	MT	Marsh Tit	RY	Ruddy Duck	WT	Willow Tit
CP	Capercaillie	NX	Great Skua	MW	Marsh Warbler	RU	Ruff	WW	Willow Warbler
C.	Carrion Crow	GS	Great Spotted Woodpecker	MP	Meadow Pipit	SM	Sand Martin	OD	Wood Sandpiper
CW	Cetti's Warbler	GT	Great Tit	MU	Mediterranean Gull	SS	Sanderling	WO	Wood Warbler
CH	Chaffinch	GE	Green Sandpiper	ML	Merlin	TE	Sandwich Tern	WK	Woodcock
CC	Chiffchaff	G.	Green Woodpecker	M.	Mistle Thrush	VI	Savi's Warbler	WL	Woodlark
CF	Chough	GR	Greenfinch	MO	Montagu's Harrier	SQ	Scarlet Rosefinch	WP	Woodpigeon
CL	Cirl Bunting	GK	Greenshank	MH	Moorhen	SP	Scaup	WR	Wren
CT	Coal Tit	H.	Grey Heron	MS	Mute Swan	CY	Scottish Crossbill	WY	Wryneck
CD	Collared Dove	P.	Grey Partridge	N.	Nightingale	SW	Sedge Warbler	YW	Yellow Wagtail
CM	Common Gull	GV	Grey Plover	NJ	Nightjar	NS	Serin	Y.	Yellowhammer
CS	Common Sandpiper	GL	Grey Wagtail	NH	Nuthatch	SA	Shag		
CX	Common Scoter	GJ	Greylag Goose	OP	Osprey	SU	Shelduck		
CN	Common Tern	GU	Guillemot	OC	Oystercatcher	SX	Shorelark		
CO	Coot	FW	Guinea fowl (Helmeted)	PX	Peafowl/Peacock	SE	Short-eared Owl		
CA	Cormorant	HF	Hawfinch	PE	Peregrine	SV	Shoveler		
CB	Corn Bunting	HH	Hen Harrier	PH	Pheasant	SK	Siskin		
CE	Corncrake	HG	Herring Gull	PF	Pied Flycatcher	S.	Skylark		
CI	Crested Tit	HY	Hobby	PW	Pied Wagtail	SZ	Slavonian Grebe		
CR	Crossbill (Common)	HZ	Honey Buzzard	PG	Pink-footed Goose	SN	Snipe		
CK	Cuckoo	HC	Hooded Crow	PT	Pintail	SB	Snow Bunting		
CU	Curlew	HP	Hoopoe	PO	Pochard	ST	Song Thrush		
DW	Dartford Warbler	HM	House Martin	PM	Ptarmigan	SH	Sparrowhawk		
DI	Dipper	HS	House Sparrow	PU	Puffin	AK	Spotted Crake		
DO	Dotterel	JD	Jackdaw	PS	Purple Sandpiper	SF	Spotted Flycatcher		
DN	Dunlin	J.	Jay	Q.	Quail	DR	Spotted Redshank		

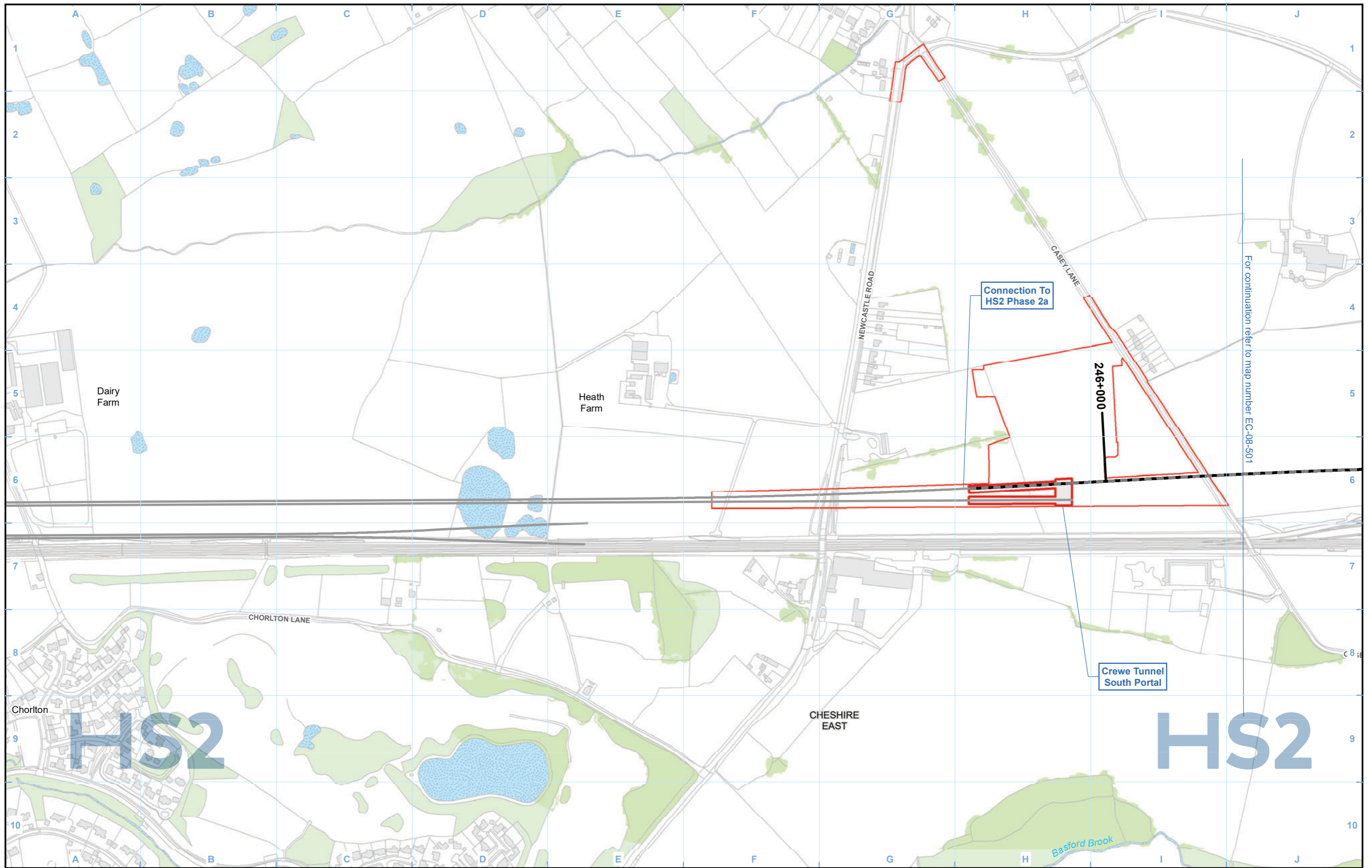
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Map Name	EC-08 BTO Bird Species Legend

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For continuation refer to map number EC-08-501

Connection To HS2 Phase 2a

246+000

Crewe Tunnel South Portal

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-500

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

HS2

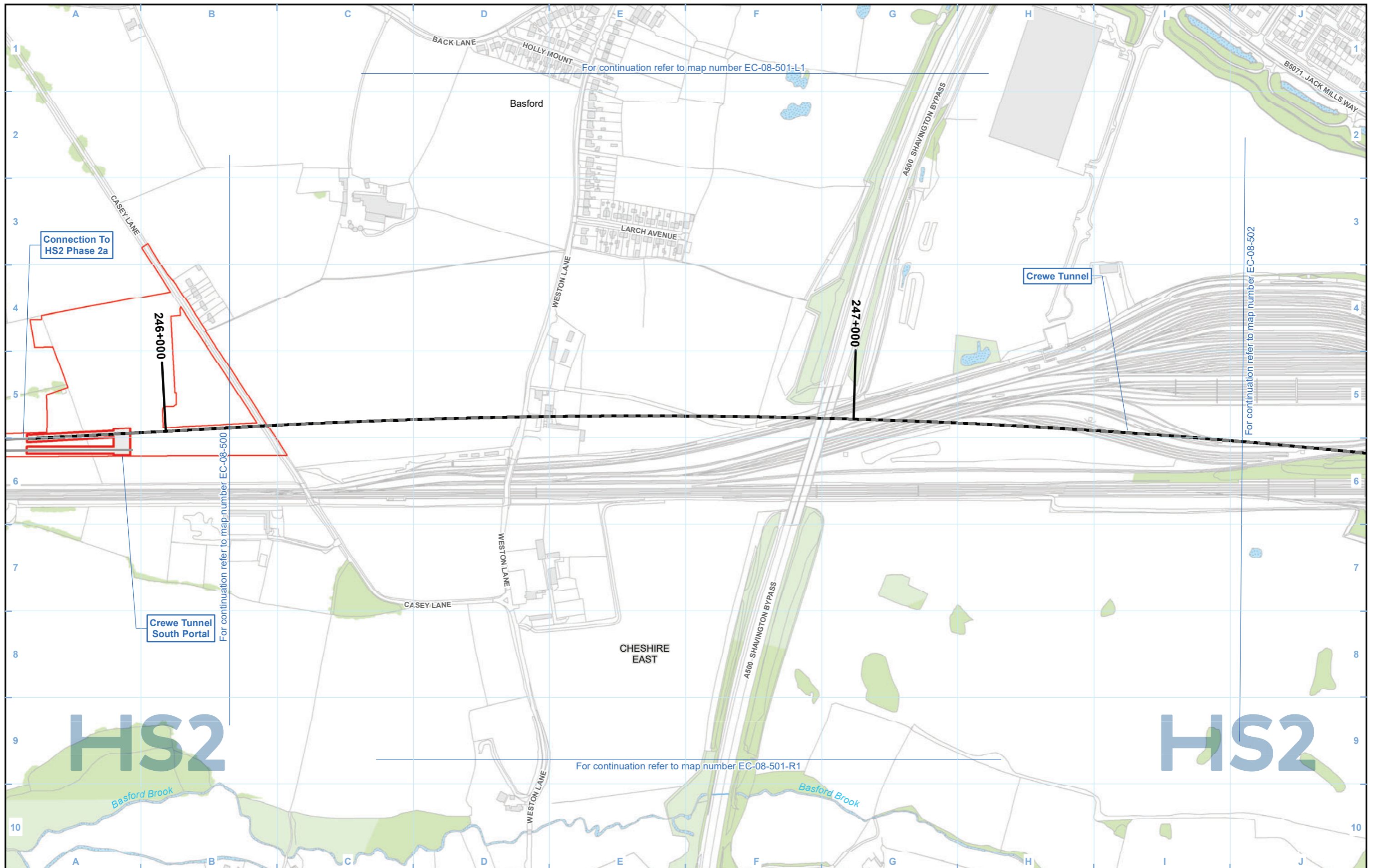
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Legend

- 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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-501

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

HS2

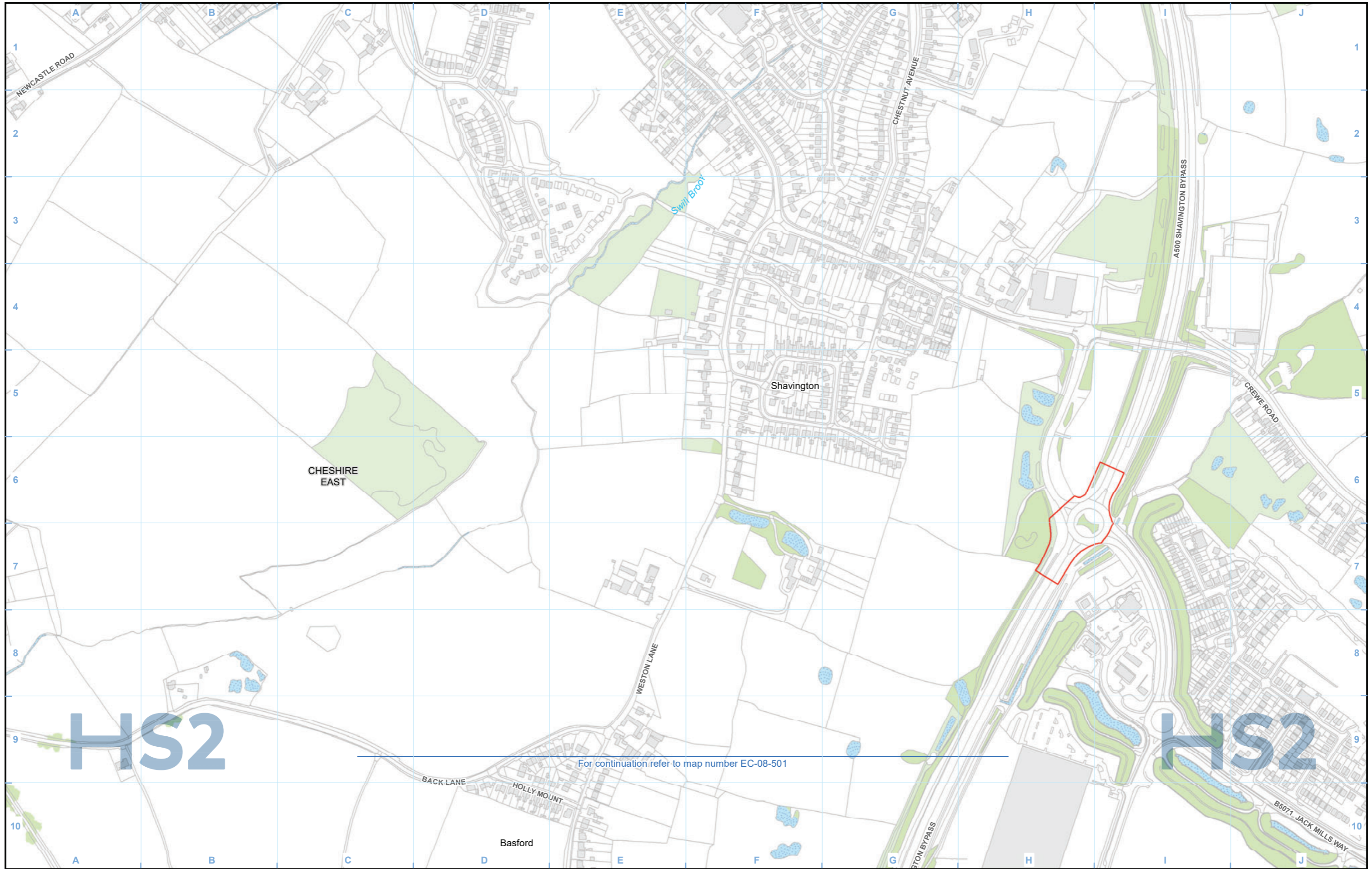
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-501-L1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

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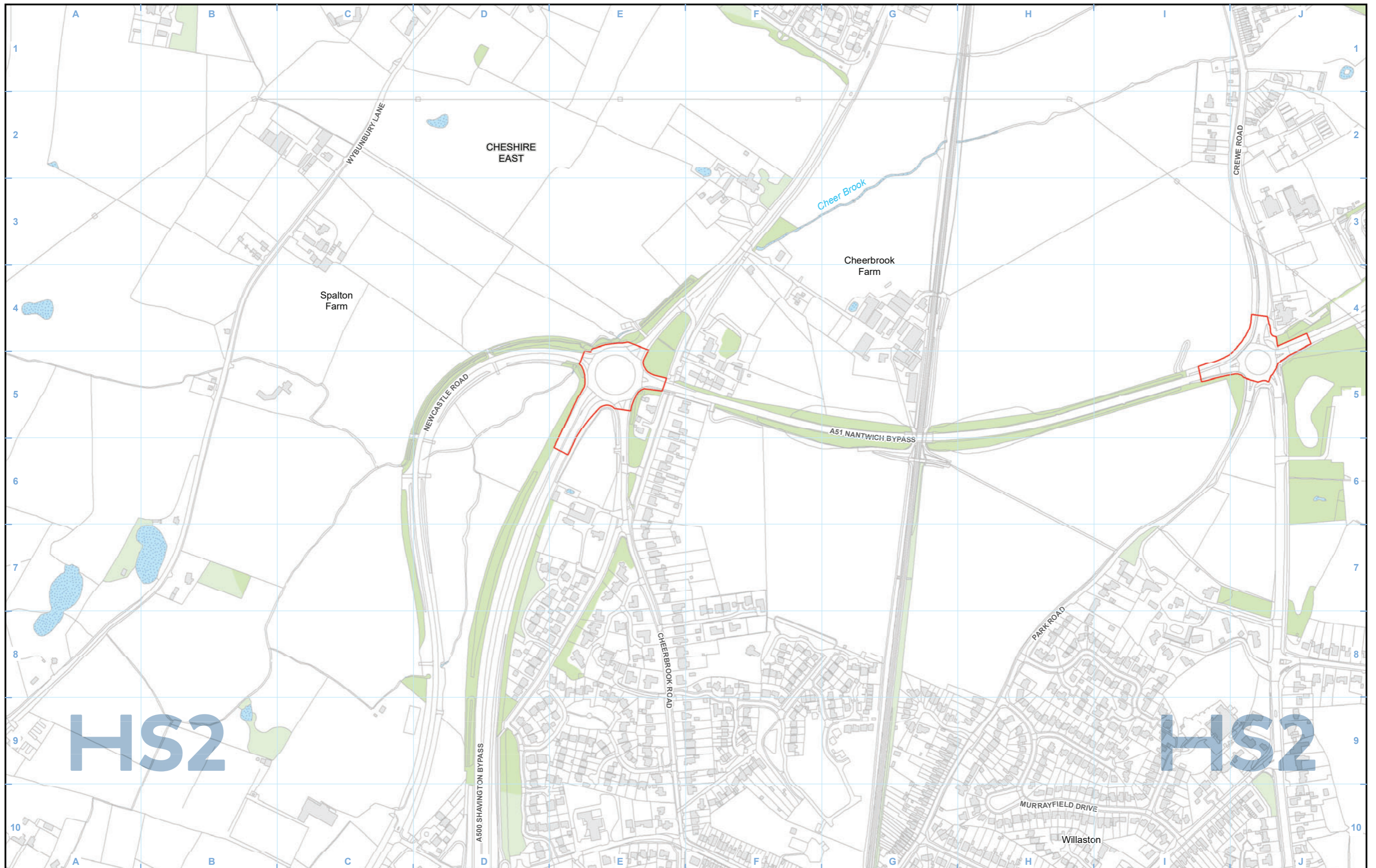
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-501-L2

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

HS2

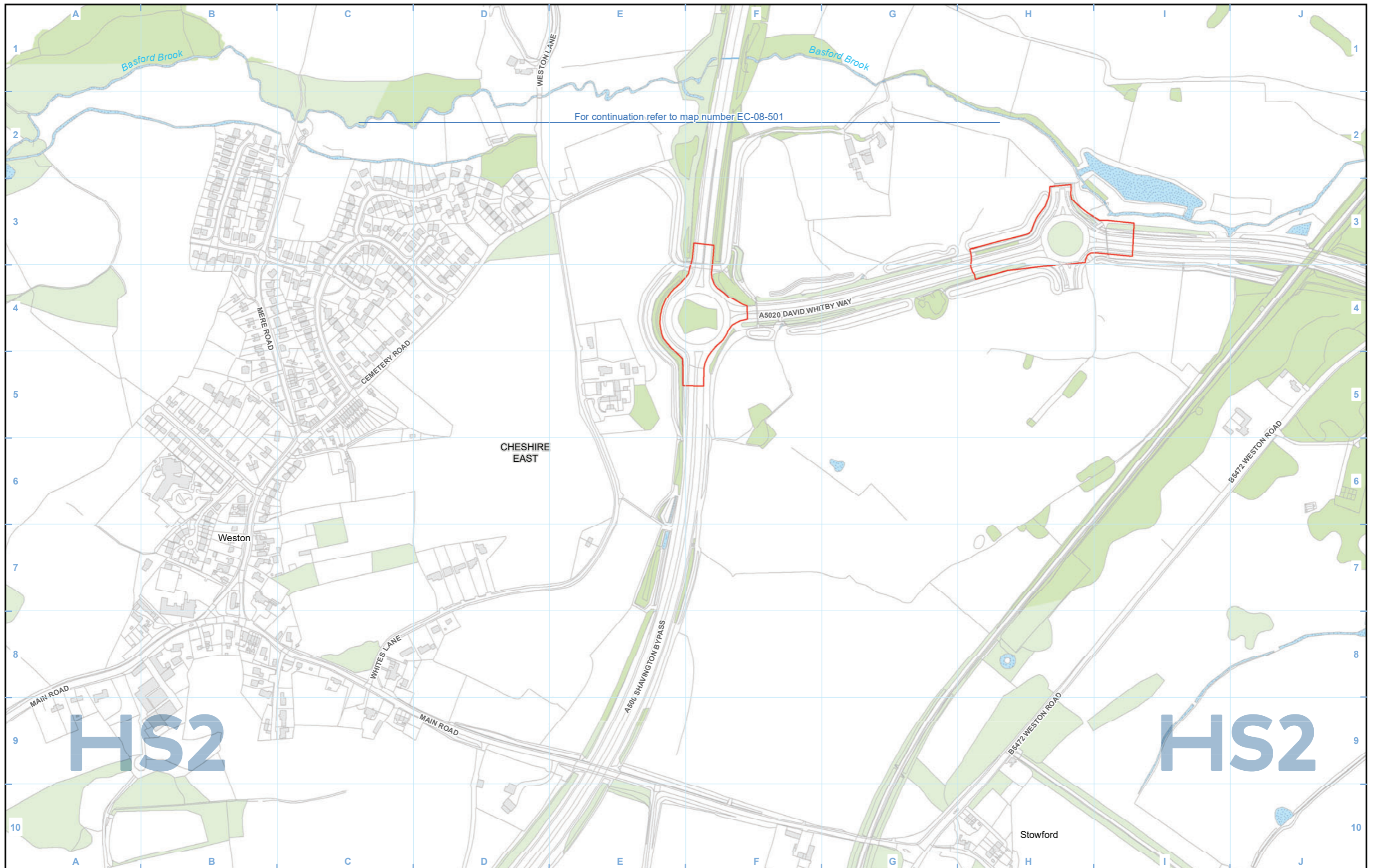
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For continuation refer to map number EC-08-501

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-501-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

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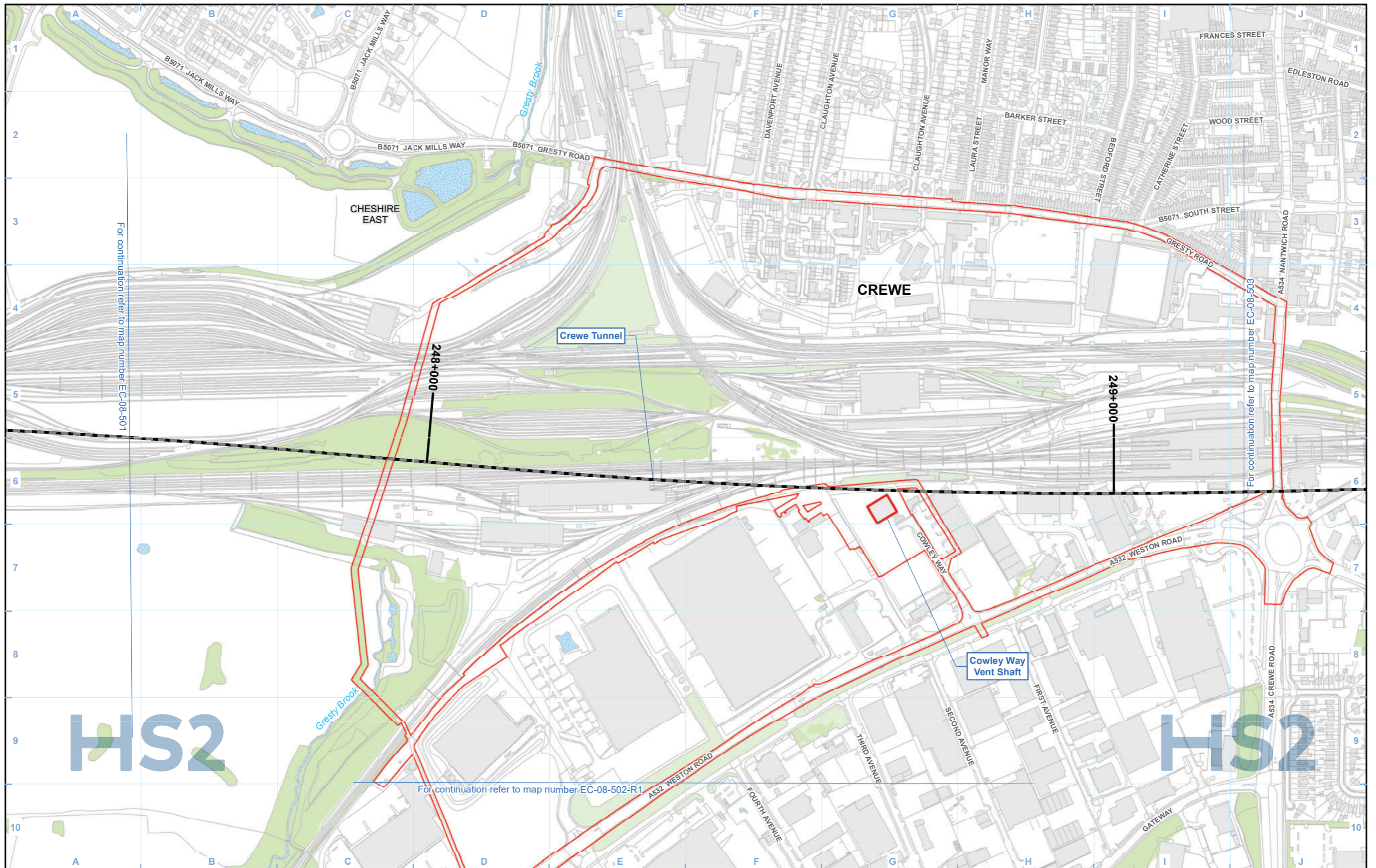
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-502**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

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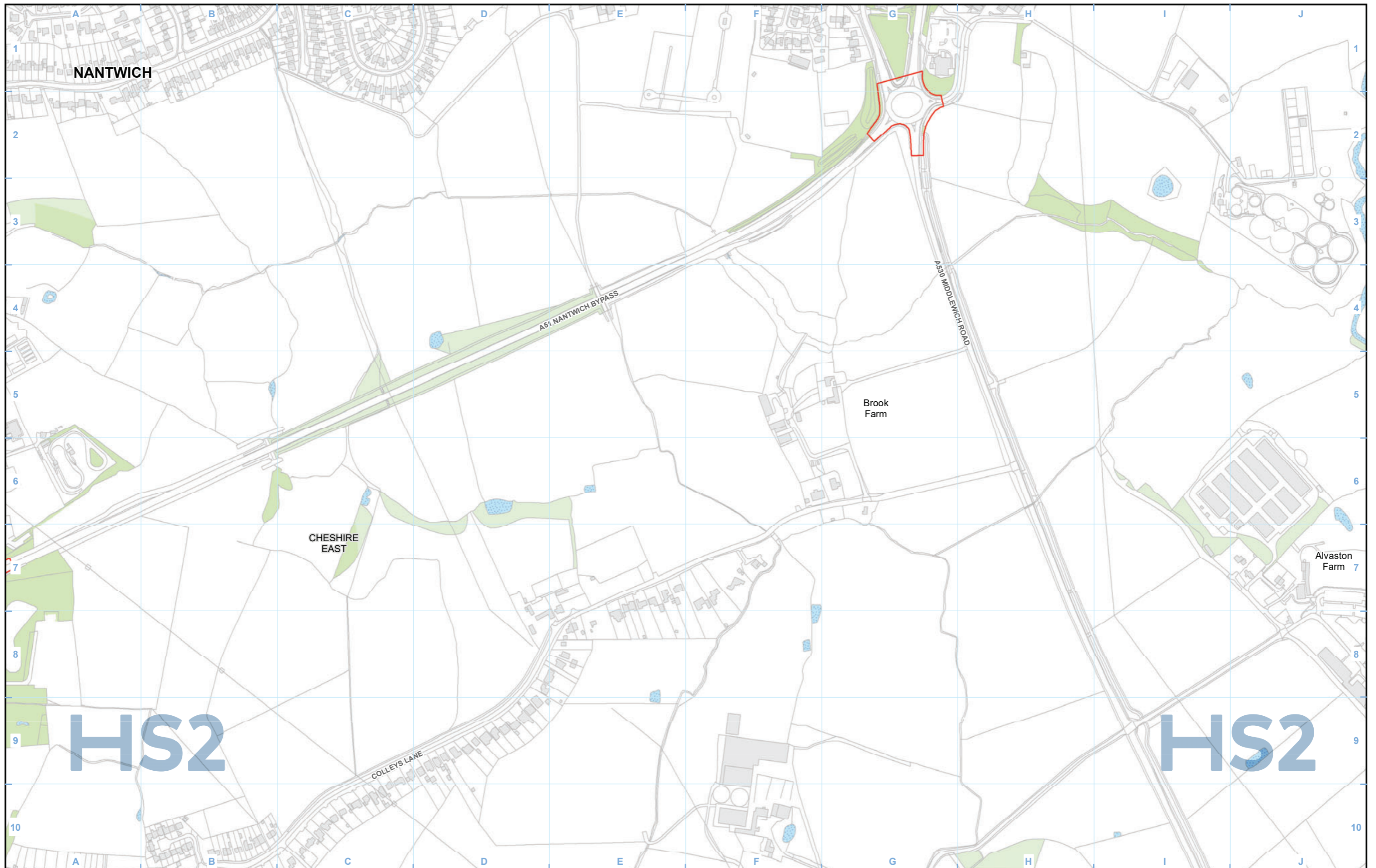
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-502-L1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

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0 50 100 150 200 Metres

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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-502-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

HS2

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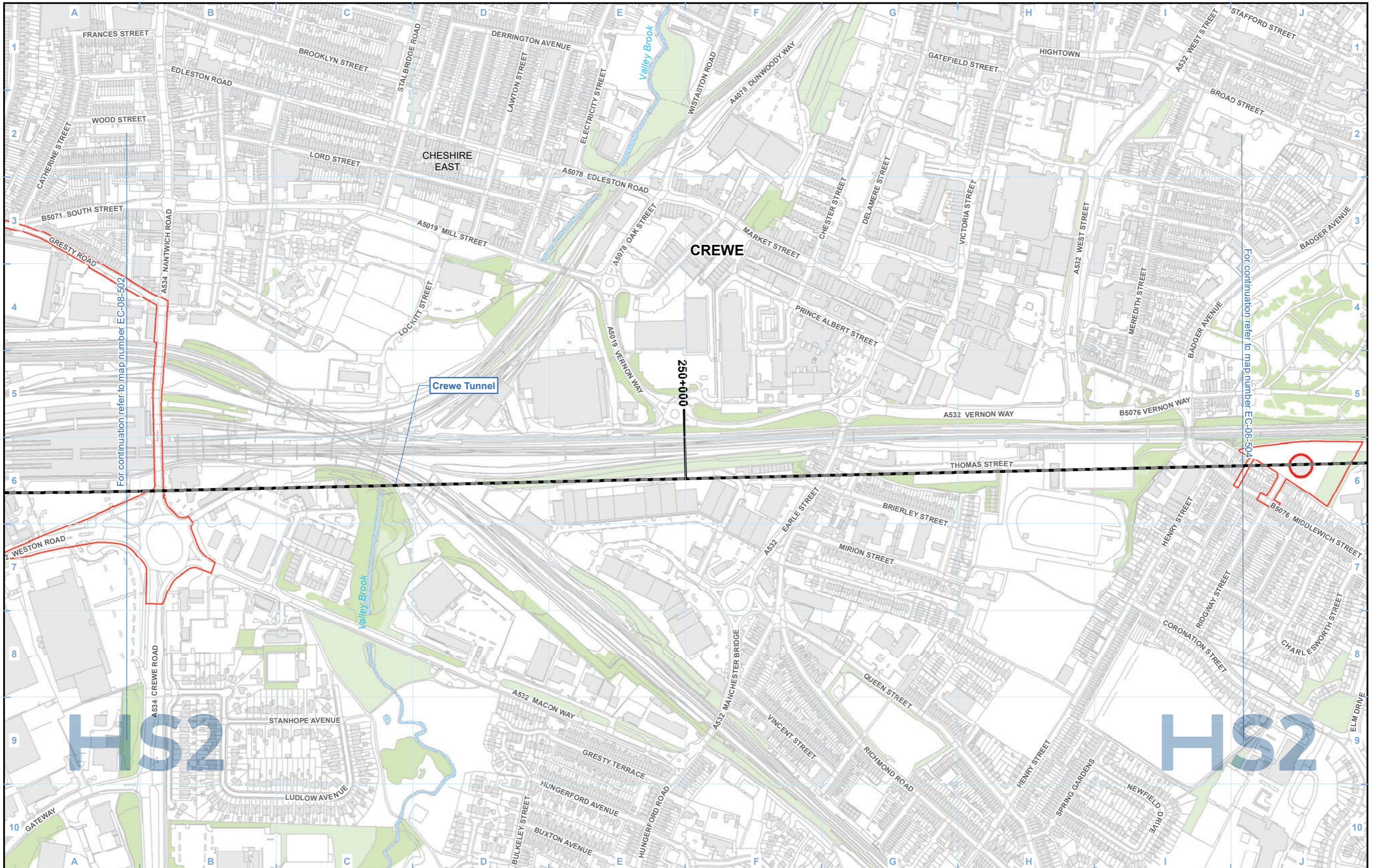
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003211-P01

Scale at A3: 1:5,000

0 50 100 150 200 Metres

Date: 12/08/21



For continuation refer to map number EC-08-502

For continuation refer to map number EC-08-504

Crewe Tunnel

250+000

HS2

HS2

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-503**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

HS2

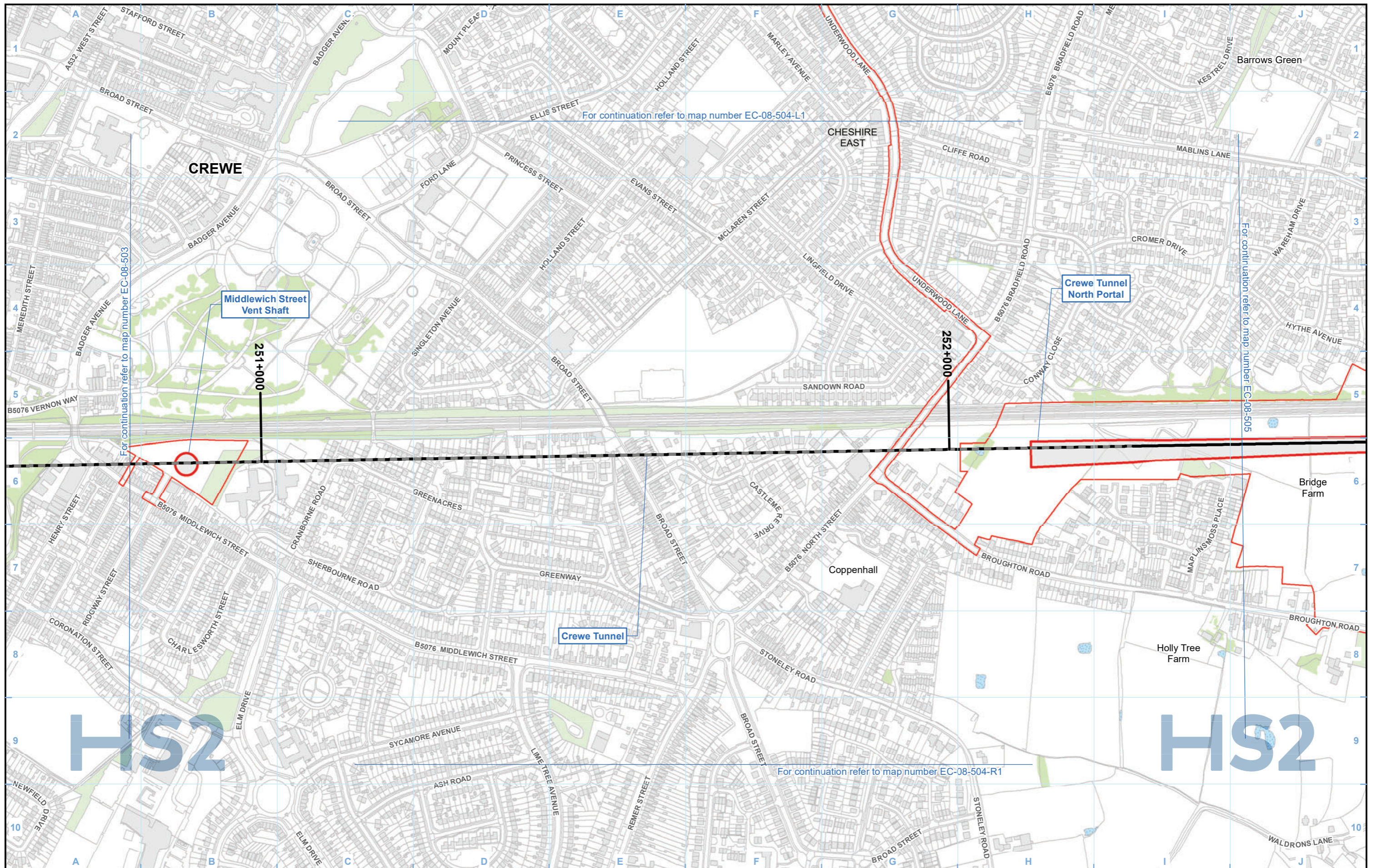
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001160-P01

Date: 12/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-504

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

HS2

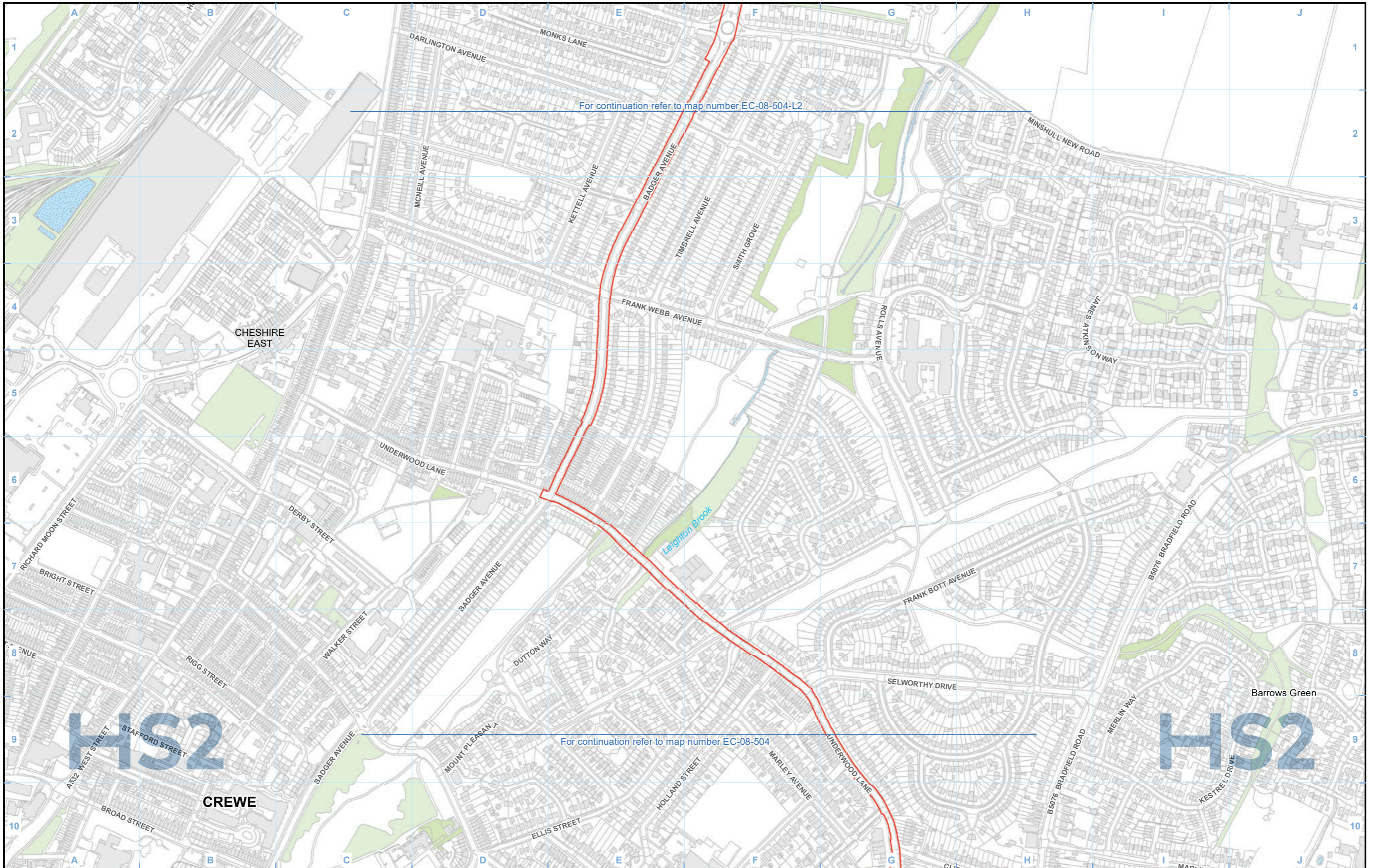
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001161-P01

Date: 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-504-L1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

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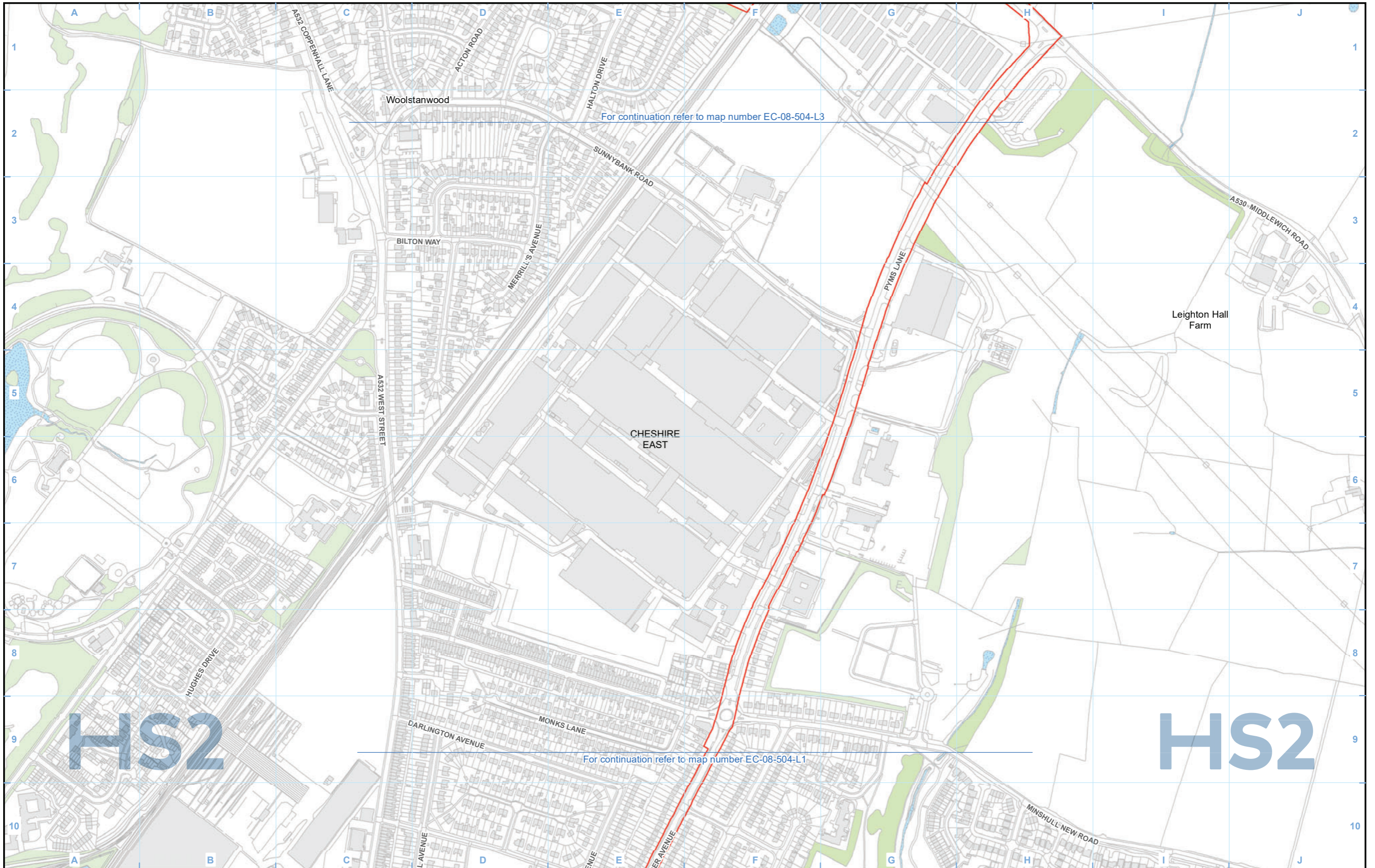
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Date: 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-504-L2**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

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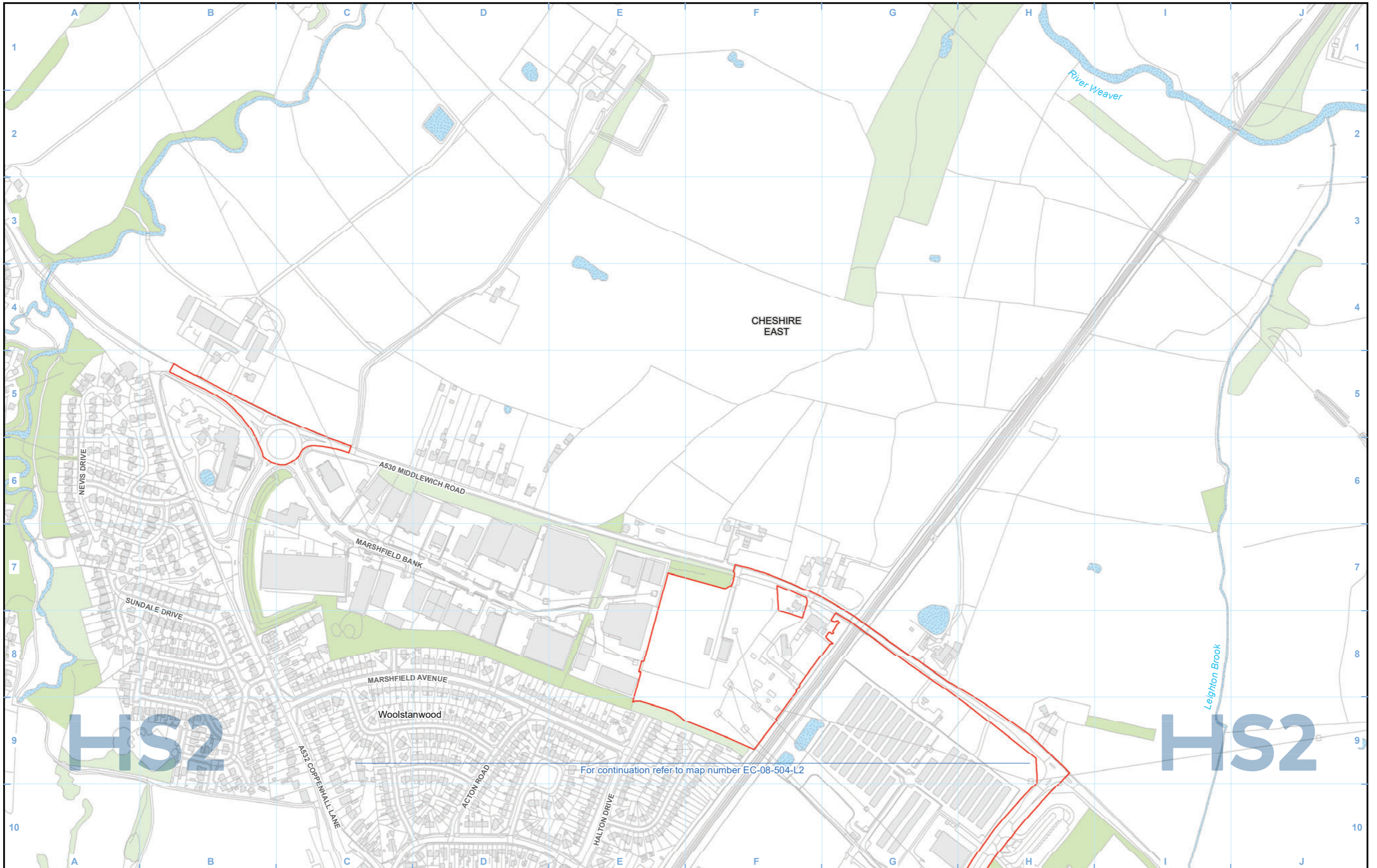
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003213-P01

Scale at A3: 1:5,000

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Metres

Date: 12/08/21



Legend

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For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-504-L3**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

HS2

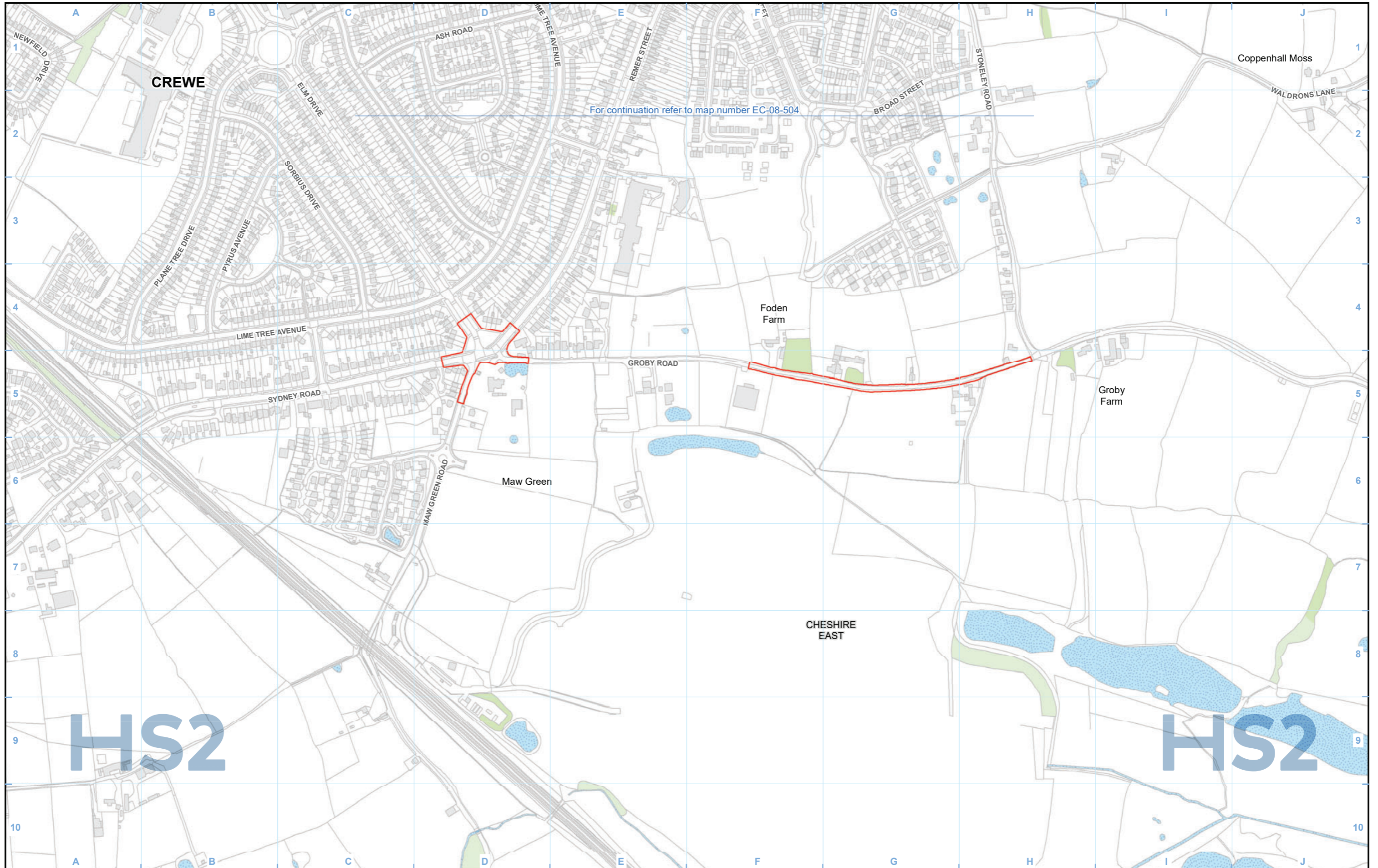
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Date: 12/08/21

Scale at A3: 1:5,000



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-504-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

HS2

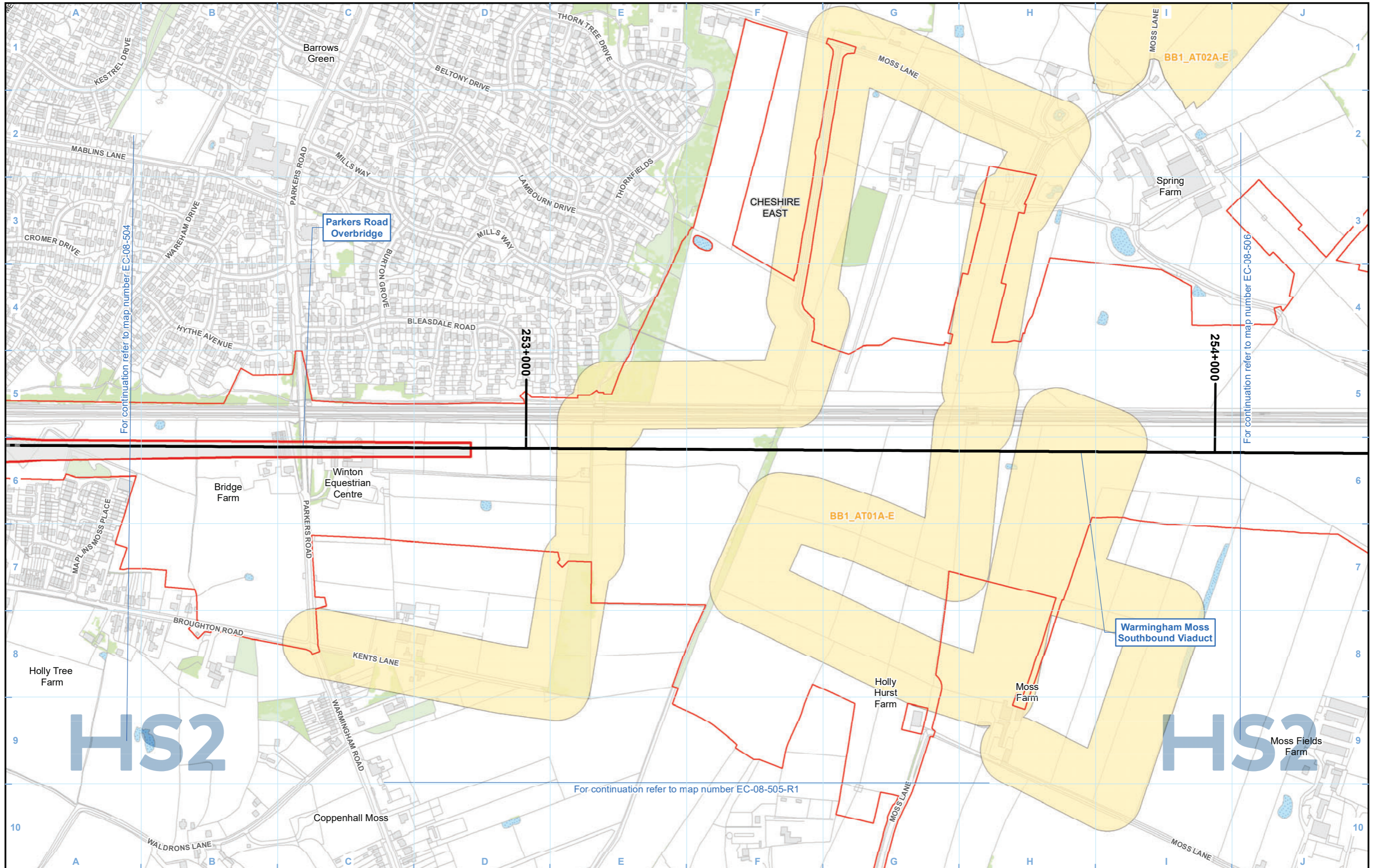
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003215-P01

Date: 12/08/21



For continuation refer to map number EC-08-504

For continuation refer to map number EC-08-506

253+000

254+000

For continuation refer to map number EC-08-505-R1

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-505**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

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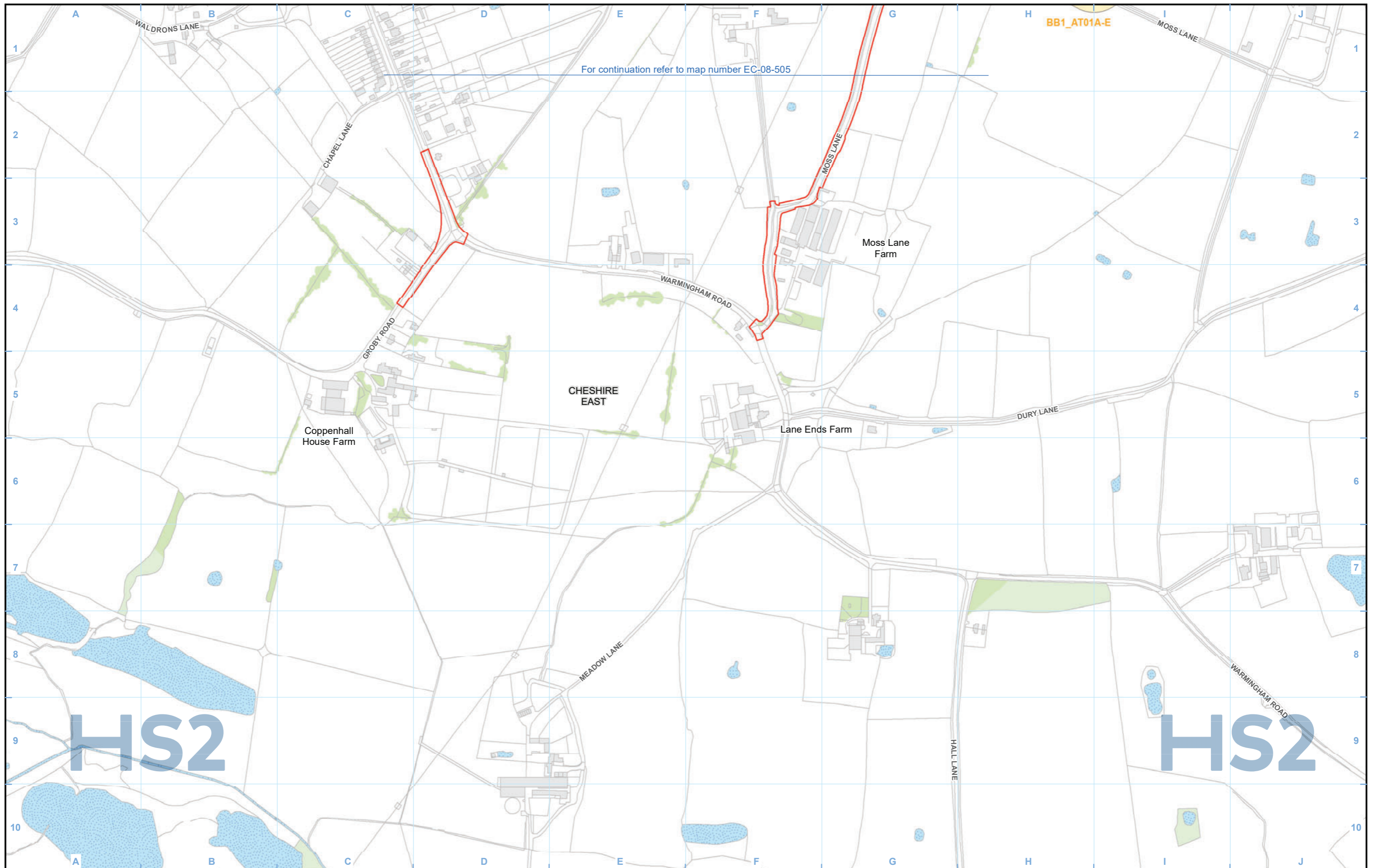
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Date: 12/08/21



For continuation refer to map number EC-08-505

BB1_AT01A-E

Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 	<ul style="list-style-type: none"> Breeding birds - survey extent
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For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-505-R1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

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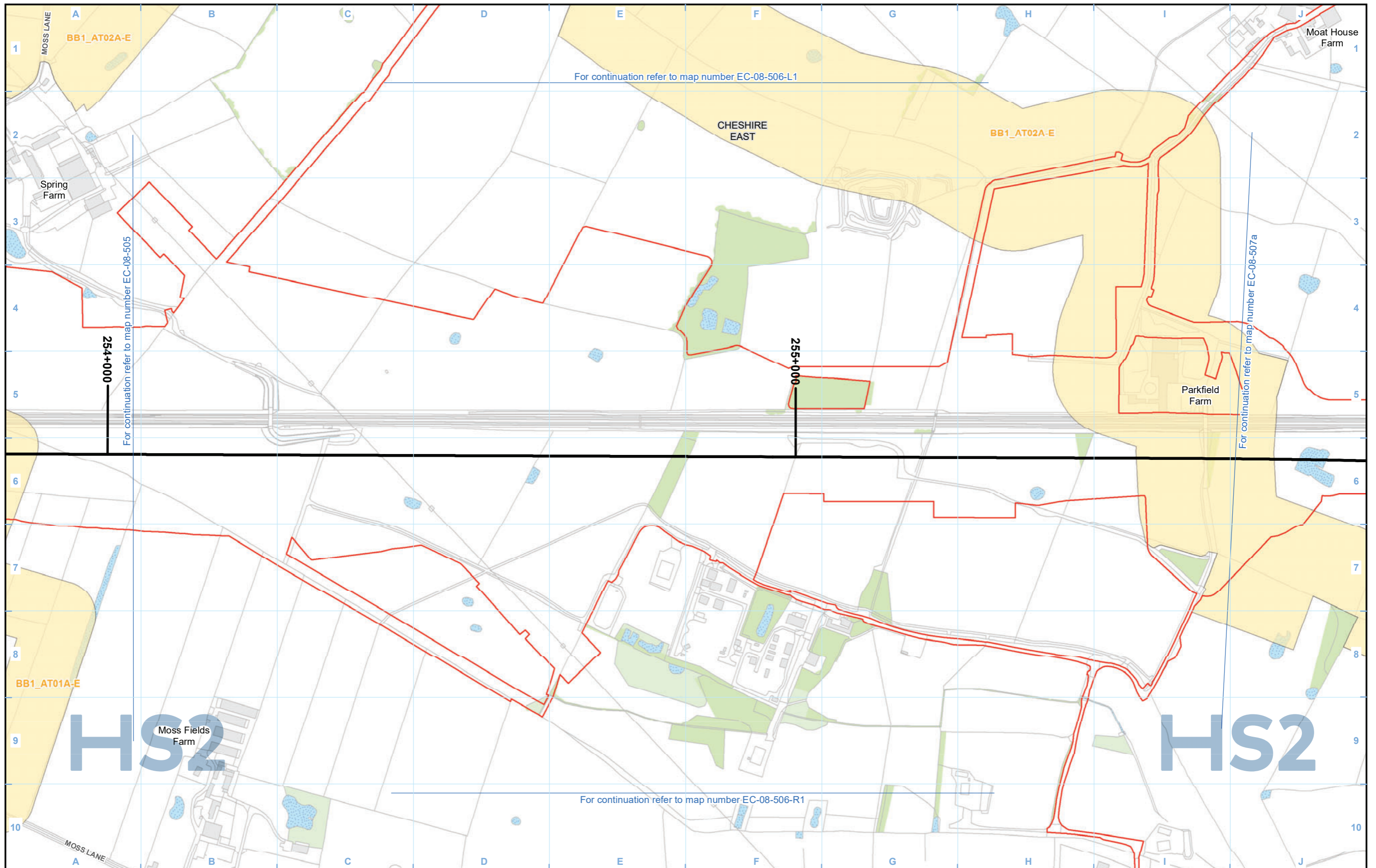
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Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number
EC-08-506

Map Name
Breeding Birds – Protected and Notable Species

Community Area MA01:
Hough to Walley's Green

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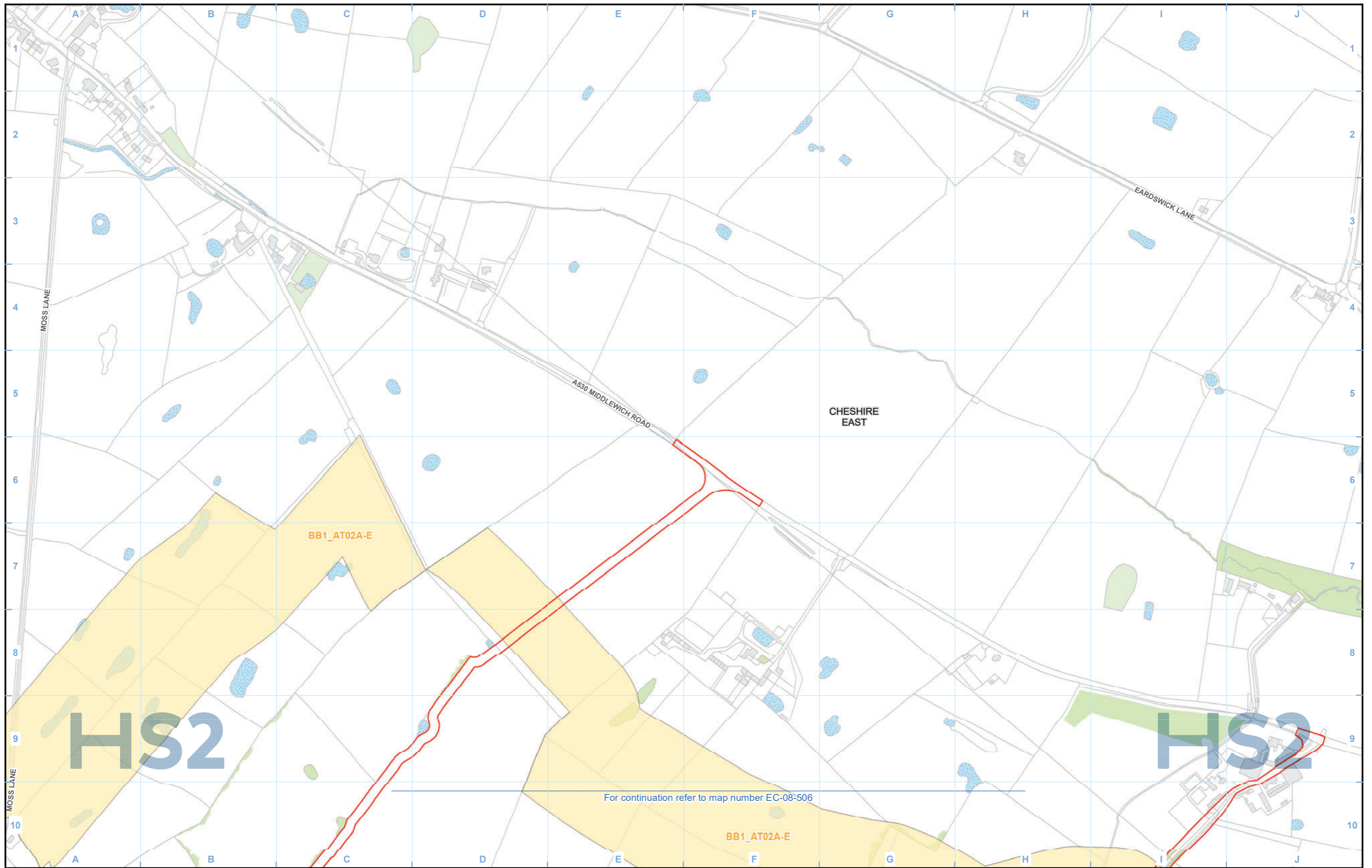
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001163-P01

Scale at A3: 1:5,000

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Metres

Date: 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number EC-08-506-L1

Map Name Breeding Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

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0 50 100 150 200 Metres

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For continuation refer to map number EC-08-506

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number EC-08-506-R1

Map Name Breeding Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

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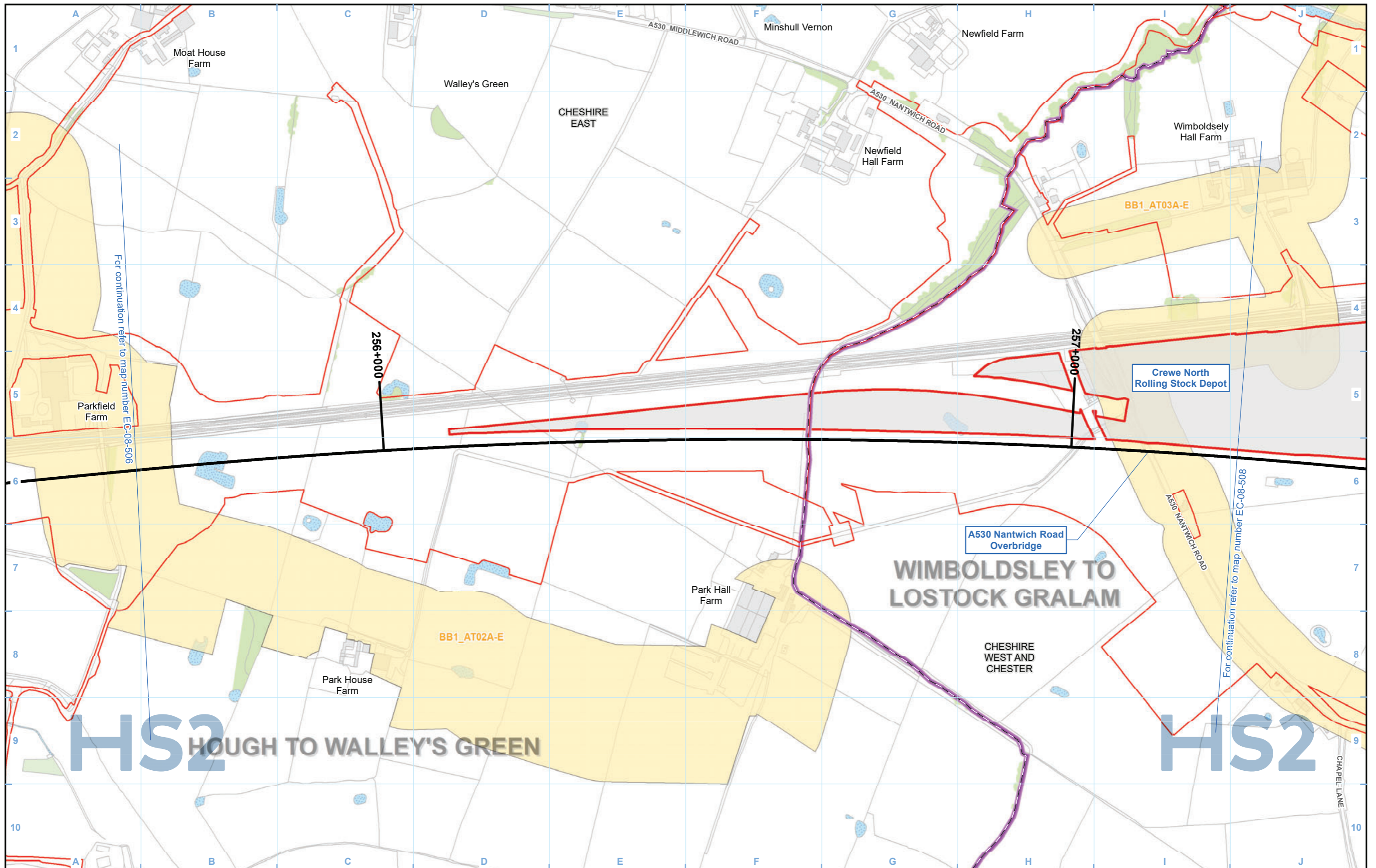
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-507a

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

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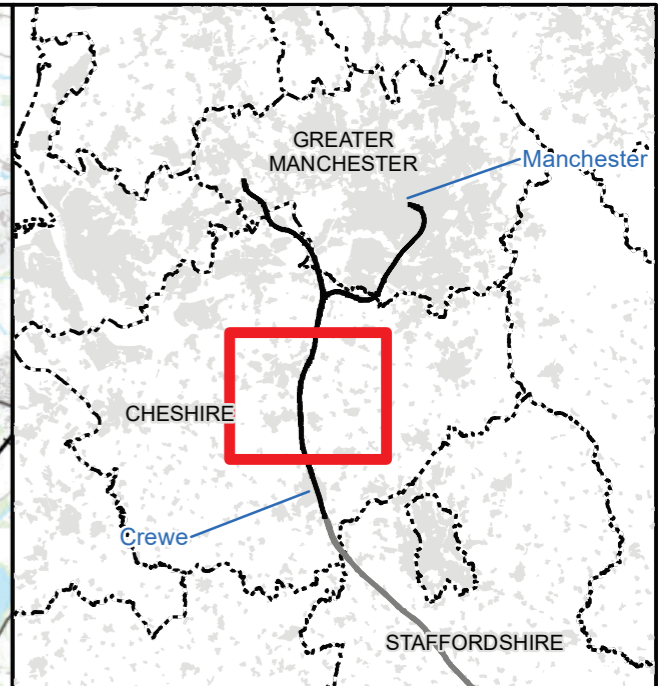
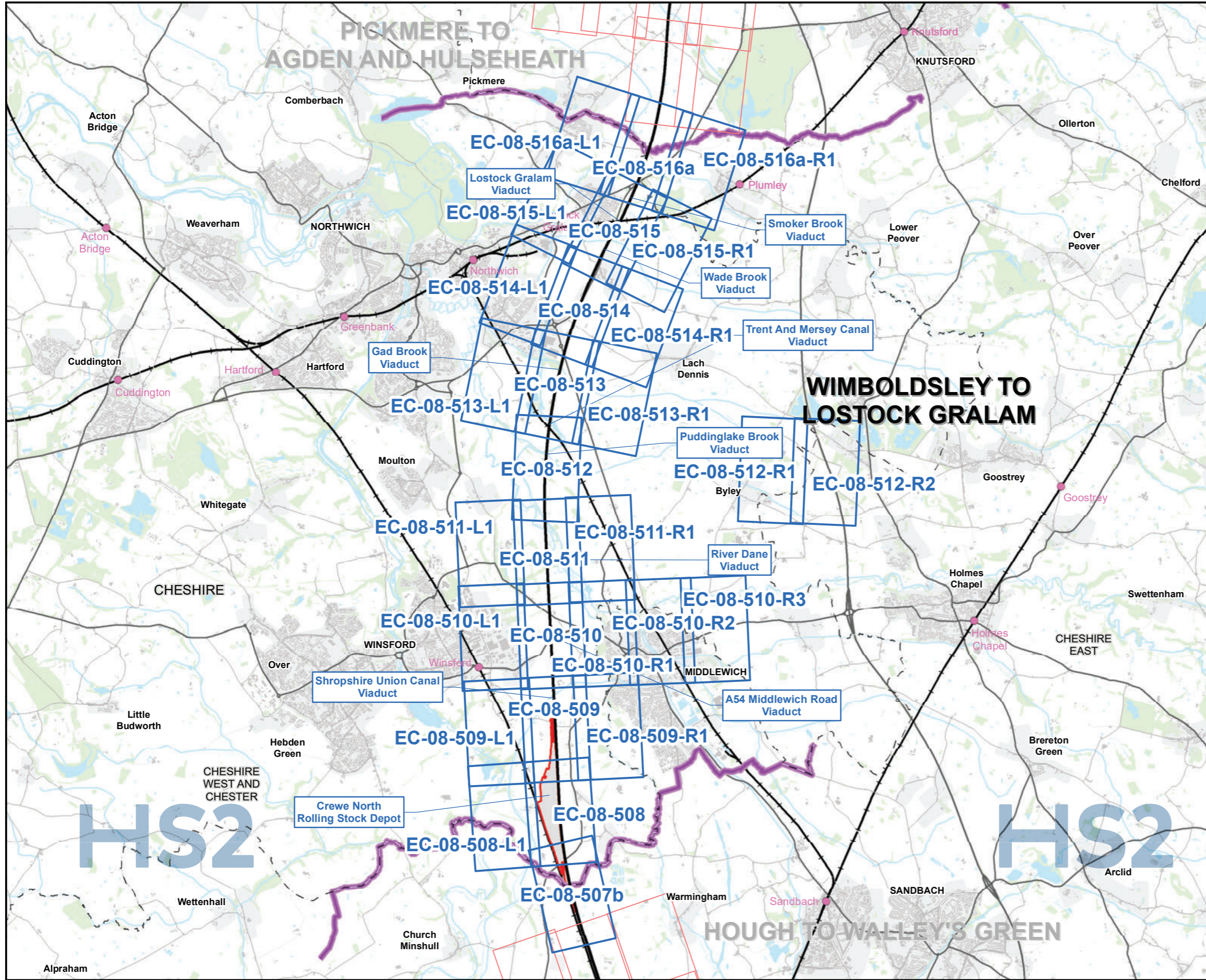
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Date: 12/08/21

Scale at A3: 1:5,000

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Map Series Information:

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.

Main Map Legend

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

Map Number EC-08-INDEX-MA02

Map Name Index Map of:
Breeding Birds – Protected and Notable Species

Community Area MA02:
Wimboldsley to Lostock Gralam

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0 750 1,500 2,250 3,000 Metres

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BTO SPECIES CODES

AC	Arctic Skua	D.	Dunnock	K.	Kestrel	RN	Raven	SG	Starling
AE	Arctic Tern	EG	Egyptian Goose	KF	Kingfisher	RA	Razorbill	SD	Stock Dove
AV	Avocet	E.	Eider	KI	Kittiwake	RG	Red Grouse	SC	Stonechat
BO	Barn Owl	FP	Feral Pigeon	KN	Knot	KT	Red Kite	TN	Stone-curlew
BY	Barnacle Goose	ZL	Feral/hybrid goose	LM	Lady Amherst's Pheasant	ED	Red-backed Shrike	TM	Storm Petrel
BA	Bar-tailed Godwit	ZF	Feral/hybrid mallard type	LA	Lapland Bunting	RM	Red-breasted Merganser	SL	Swallow
BR	Bearded Tit	FF	Fieldfare	L.	Lapwing	RQ	Red-crested Pochard	SI	Swift
BS	Berwick's Swan	FC	Firecrest	TL	Leach's Petrel	FV	Red-footed Falcon	TO	Tawny Owl
BI	Bittern	F.	Fulmar	LB	Lesser Black-backed Gull	RL	Red-legged Partridge	T.	Teal
BK	Black Grouse	GA	Gadwall	LS	Lesser Spotted Woodpecker	NK	Red-necked Phalarope	TK	Temminck's Stint
TY	Black Guillemot	GX	Gannet	LW	Lesser Whitethroat	LR	Redpoll (Lesser)	TP	Tree Pipit
BX	Black Redstart	GW	Garden Warbler	LI	Linnet	RK	Redshank	TS	Tree Sparrow
BJ	Black Tern	GY	Garganey	ET	Little Egret	RT	Redstart	TC	Treecreeper
B.	Blackbird	GC	Goldcrest	LG	Little Grebe	RH	Red-throated Diver	TU	Tufted Duck
BC	Blackcap	EA	Golden Eagle	LU	Little Gull	RE	Redwing	TT	Turnstone
BH	Black-headed Gull	OL	Golden Oriole	LO	Little Owl	RB	Reed Bunting	TD	Turtle Dove
BN	Black-necked Grebe	GF	Golden Pheasant	LP	Little Ringed Plover	RW	Reed Warbler	TW	Twite
BW	Black-tailed Godwit	GP	Golden Plover	AF	Little Tern	RZ	Ring Ouzel	WA	Water Rail
BV	Black-throated Diver	GN	Goldeneye	LE	Long-eared Owl	RP	Ringed Plover	W.	Wheatear
BT	Blue Tit	GO	Goldfinch	LT	Long-tailed Tit	RI	Ring-necked Parakeet	WM	Whimbrel
BU	Bluethroat	GD	Goosander	MG	Magpie	R.	Robin	WC	Whinchat
BL	Brambling	GI	Goshawk	MA	Mallard	DV	Rock Dove (not feral)	WG	White-fronted Goose
BG	Brent Goose	GH	Grasshopper Warbler	MN	Mandarin Duck	RC	Rock Pipit	WH	Whitethroat
BF	Bullfinch	GB	Great Black-backed Gull	MX	Manx Shearwater	RO	Rook	WS	Whooper Swan
BZ	Buzzard	GG	Great Crested Grebe	MR	Marsh Harrier	RS	Roseate Tern	WN	Wigeon
CG	Canada Goose	ND	Great Northern Diver	MT	Marsh Tit	RY	Ruddy Duck	WT	Willow Tit
CP	Capercaillie	NX	Great Skua	MW	Marsh Warbler	RU	Ruff	WW	Willow Warbler
C.	Carrion Crow	GS	Great Spotted Woodpecker	MP	Meadow Pipit	SM	Sand Martin	OD	Wood Sandpiper
CW	Cetti's Warbler	GT	Great Tit	MU	Mediterranean Gull	SS	Sanderling	WO	Wood Warbler
CH	Chaffinch	GE	Green Sandpiper	ML	Merlin	TE	Sandwich Tern	WK	Woodcock
CC	Chiffchaff	G.	Green Woodpecker	M.	Mistle Thrush	VI	Savi's Warbler	WL	Woodlark
CF	Chough	GR	Greenfinch	MO	Montagu's Harrier	SQ	Scarlet Rosefinch	WP	Woodpigeon
CL	Cirl Bunting	GK	Greenshank	MH	Moorhen	SP	Scaup	WR	Wren
CT	Coal Tit	H.	Grey Heron	MS	Mute Swan	CY	Scottish Crossbill	WY	Wryneck
CD	Collared Dove	P.	Grey Partridge	N.	Nightingale	SW	Sedge Warbler	YW	Yellow Wagtail
CM	Common Gull	GV	Grey Plover	NJ	Nightjar	NS	Serin	Y.	Yellowhammer
CS	Common Sandpiper	GL	Grey Wagtail	NH	Nuthatch	SA	Shag		
CX	Common Scoter	GJ	Greylag Goose	OP	Osprey	SU	Shelduck		
CN	Common Tern	GU	Guillemot	OC	Oystercatcher	SX	Shorelark		
CO	Coot	FW	Guineafowl (Helmeted)	PX	Peafowl/Peacock	SE	Short-eared Owl		
CA	Cormorant	HF	Hawfinch	PE	Peregrine	SV	Shoveler		
CB	Corn Bunting	HH	Hen Harrier	PH	Pheasant	SK	Siskin		
CE	Corncrake	HG	Herring Gull	PF	Pied Flycatcher	S.	Skylark		
CI	Crested Tit	HY	Hobby	PW	Pied Wagtail	SZ	Slavonian Grebe		
CR	Crossbill (Common)	HZ	Honey Buzzard	PG	Pink-footed Goose	SN	Snipe		
CK	Cuckoo	HC	Hooded Crow	PT	Pintail	SB	Snow Bunting		
CU	Curlew	HP	Hoopoe	PO	Pochard	ST	Song Thrush		
DW	Dartford Warbler	HM	House Martin	PM	Ptarmigan	SH	Sparrowhawk		
DI	Dipper	HS	House Sparrow	PU	Puffin	AK	Spotted Crake		
DO	Dotterel	JD	Jackdaw	PS	Purple Sandpiper	SF	Spotted Flycatcher		
DN	Dunlin	J.	Jay	Q.	Quail	DR	Spotted Redshank		

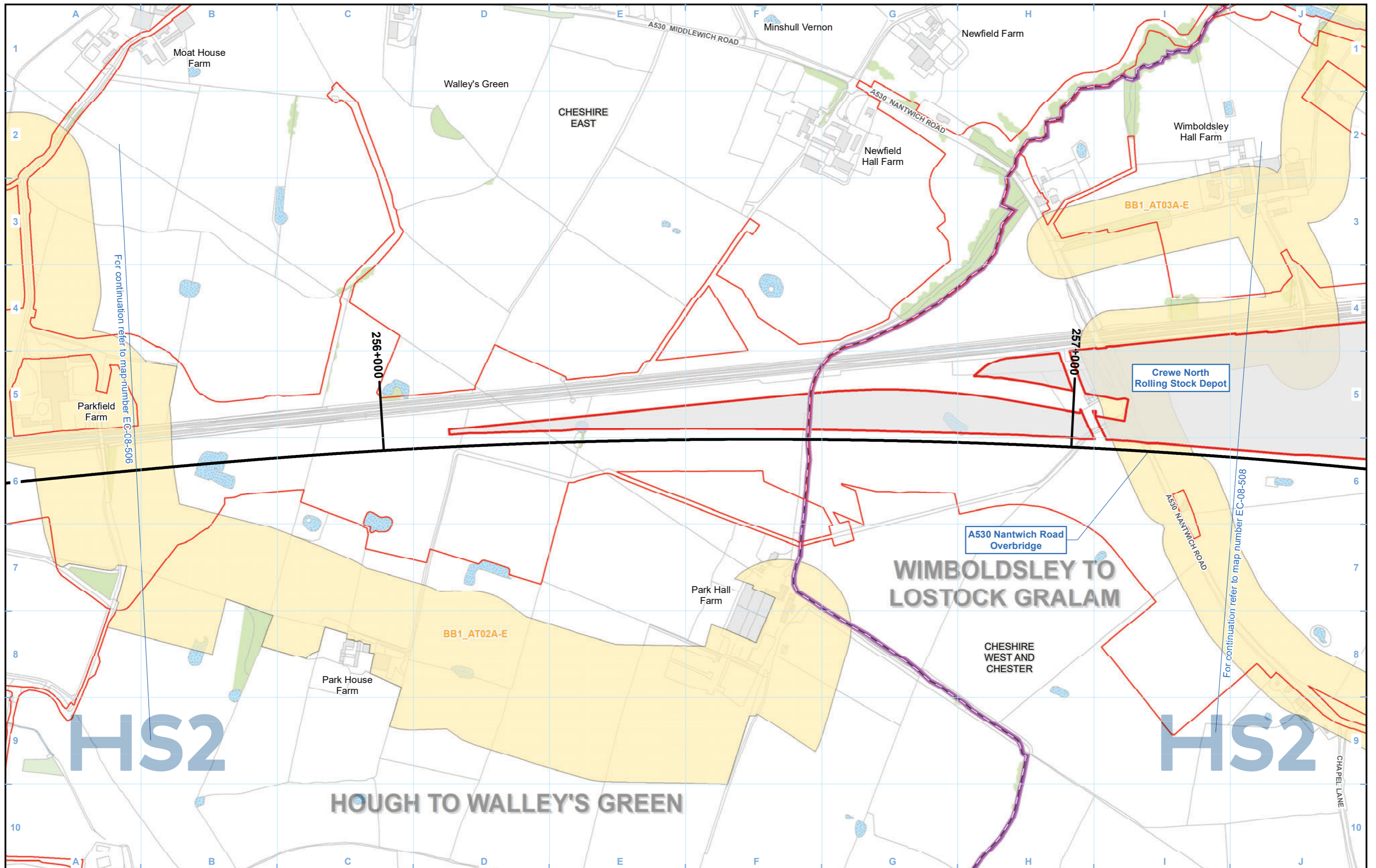
Map Number	EC-08 Legend
Map Name	EC-08 BTO Bird Species Legend

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-507b

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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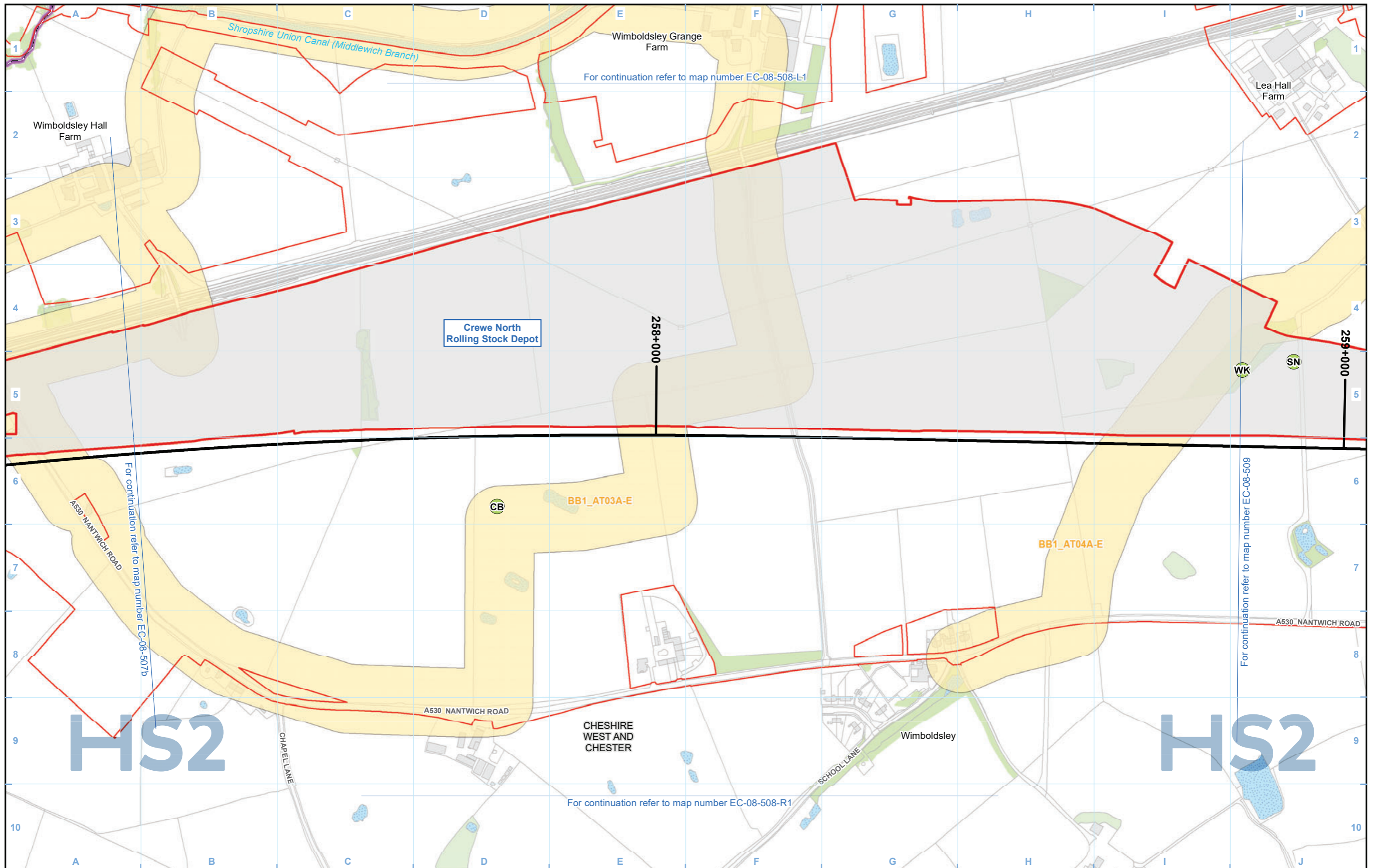
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Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-508

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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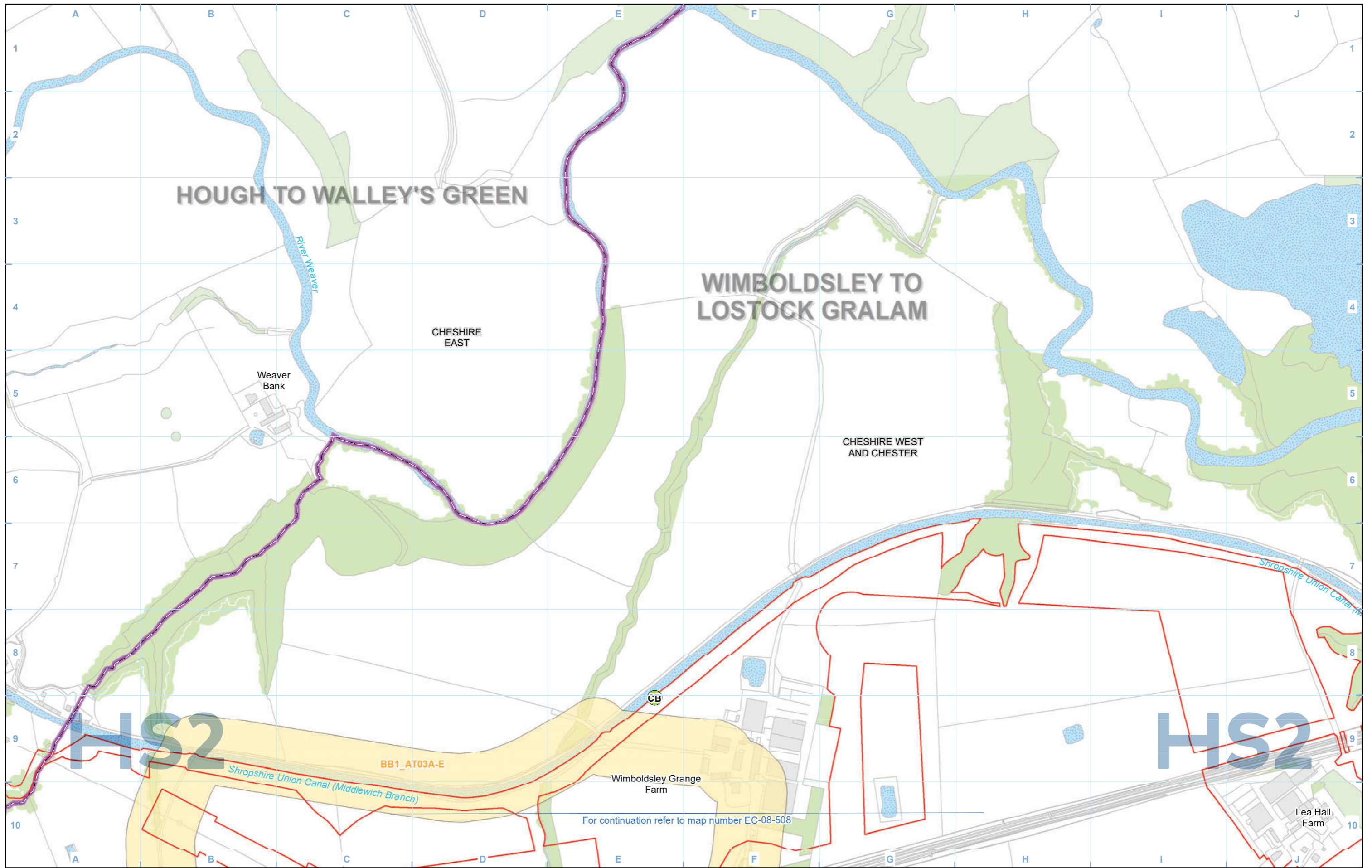
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Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-508-L1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

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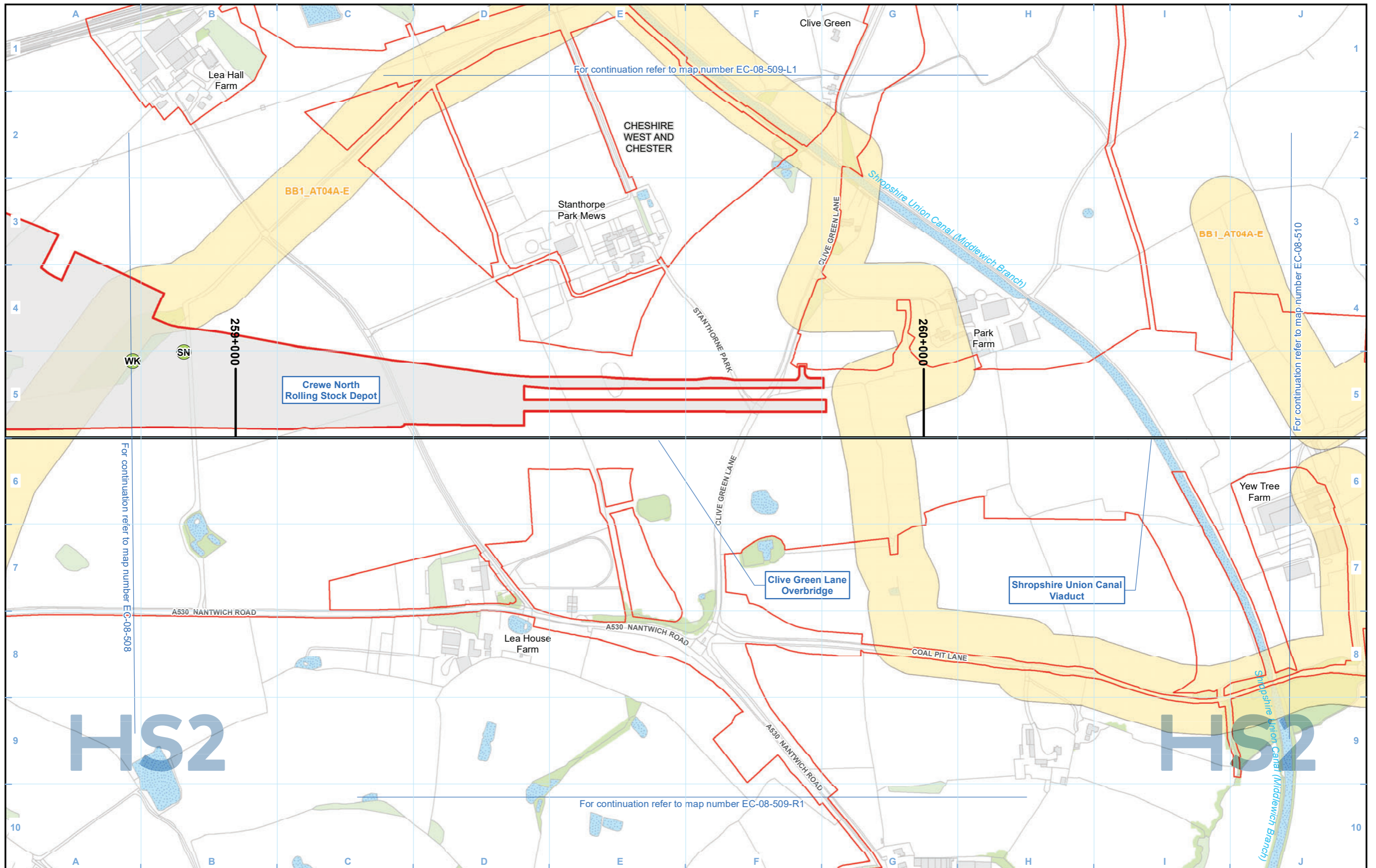
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Date: 12/08/21

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For continuation refer to map number EC-08-509-L1

For continuation refer to map number EC-08-510

For continuation refer to map number EC-08-508

For continuation refer to map number EC-08-509-R1

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-509

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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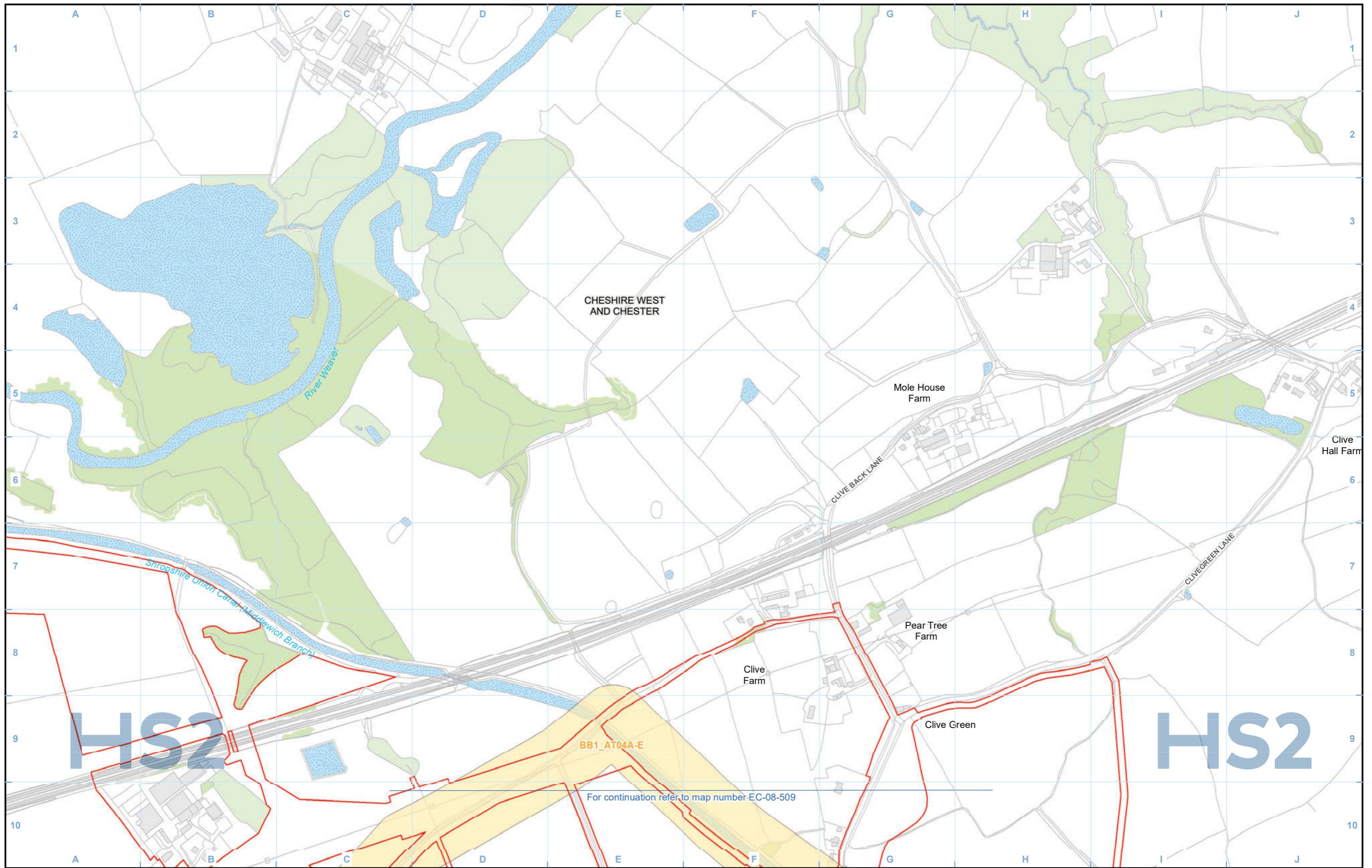
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001167-P01

Date: 12/08/21

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0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-509-L1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

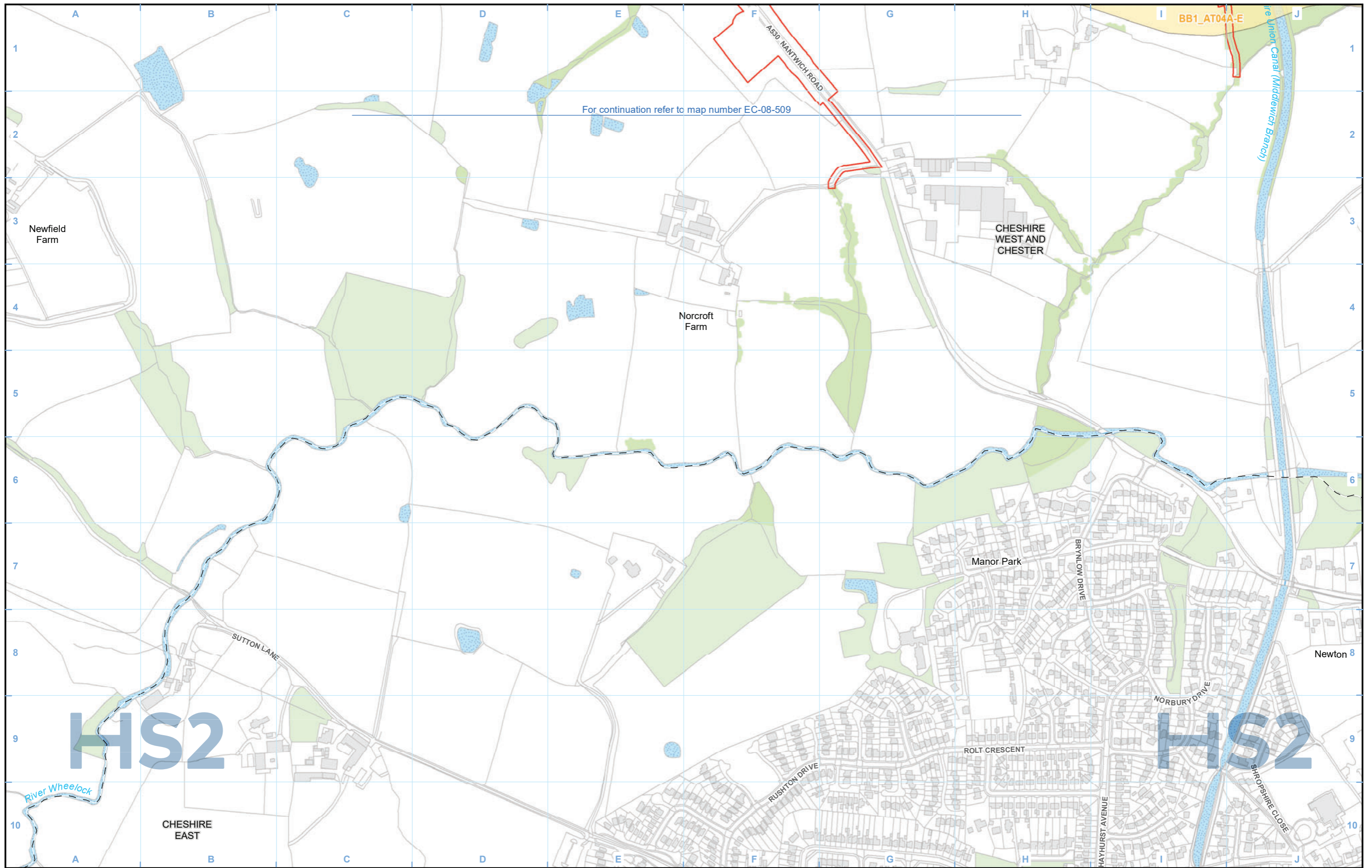
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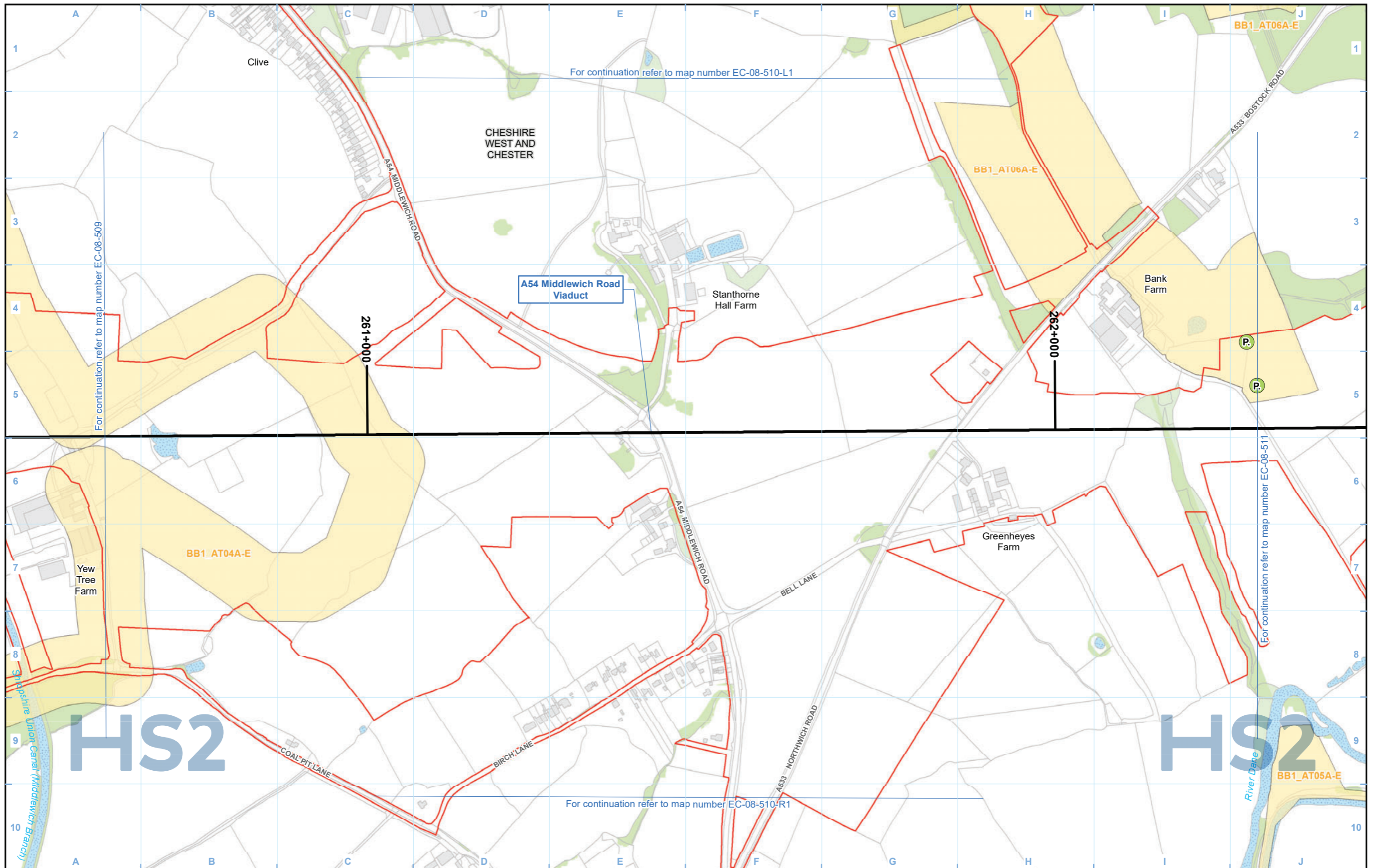
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For continuation refer to map number EC-08-509

BB1_AT04A-E

Legend <ul style="list-style-type: none"> 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) Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment Breeding birds - survey extent 		<p>For full legend please refer to EC-08 - Bird Species Legend Page</p>	
<p>Map Number: EC-08-509-R1</p> <p>Map Name: Breeding Birds – Protected and Notable Species</p> <p>Community Area MA02: Wimboldsley to Lostock Gralam</p>		<p>HS2</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2021 OS 100049190</p> <p>Scale at A3: 1:5,000</p> <p>Doc Number: 2DE01-MWJ-EV-MAP-M000-003221-P01</p> <p>Date: 12/08/21</p>	



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-510

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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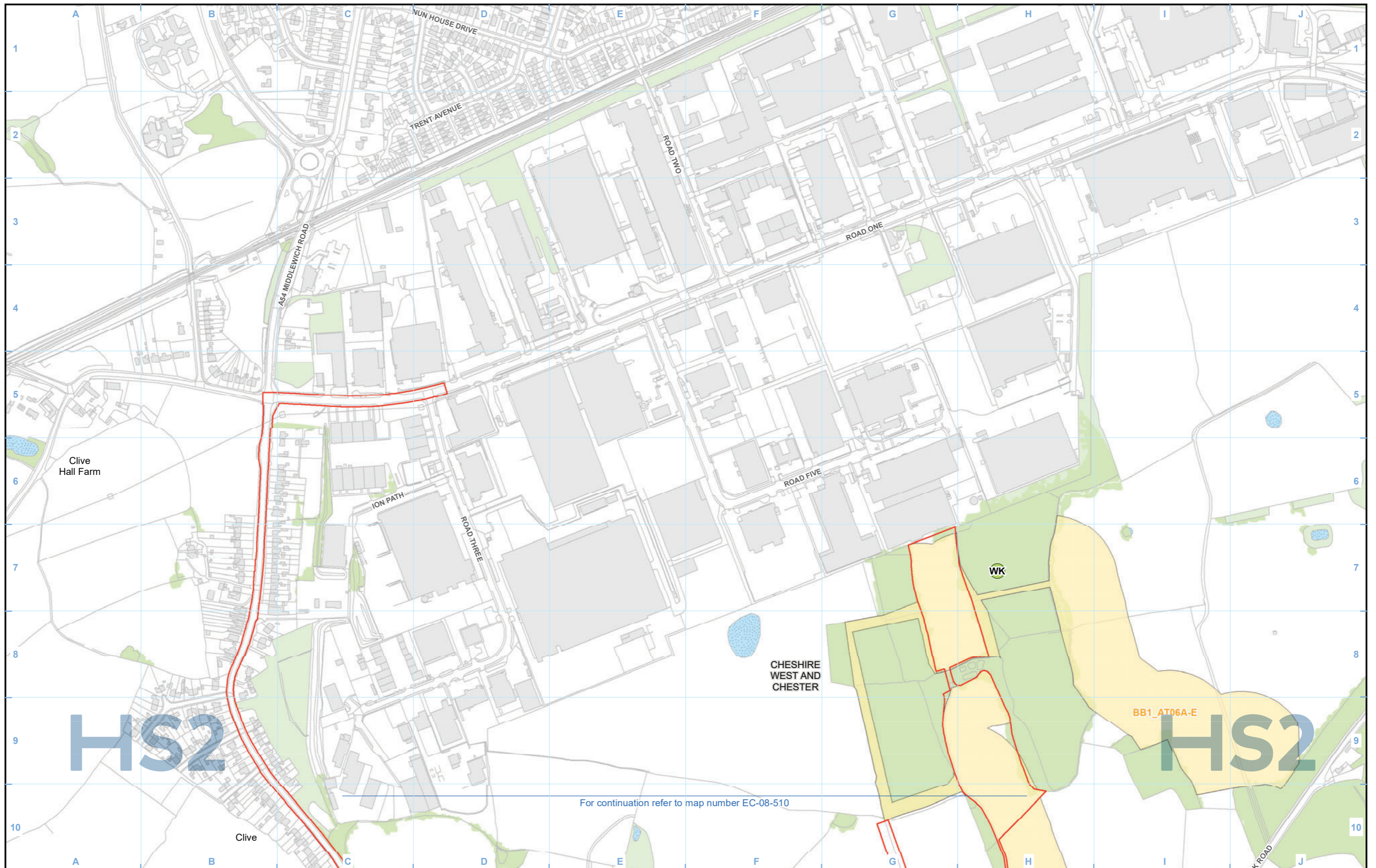
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Date: 12/08/21

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0 50 100 150 200 Metres

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number EC-08-510-L1

Map Name
Breeding Birds – Protected and Notable Species

Community Area MA02:
Wimboldsley to Lostock Gralam

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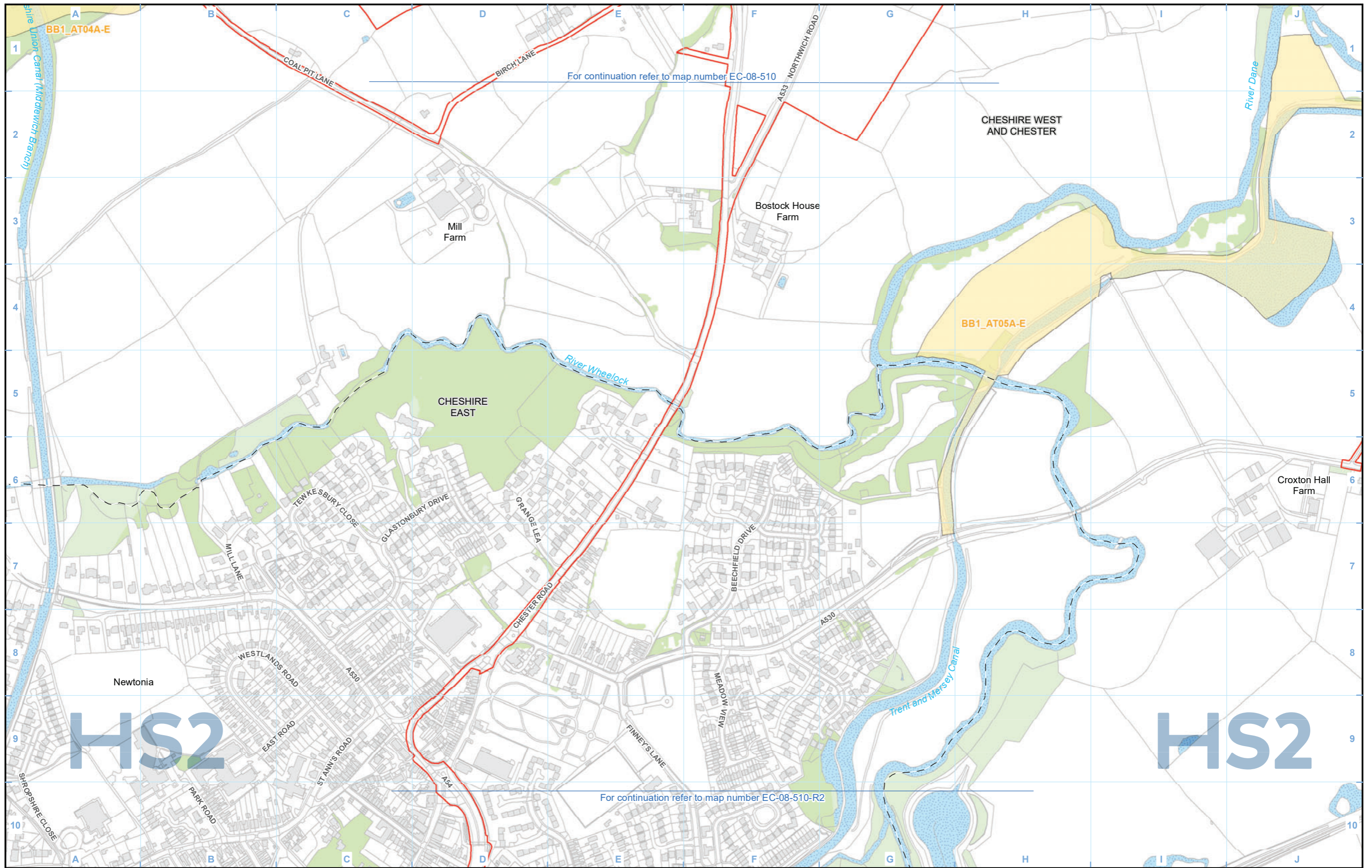
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-510-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

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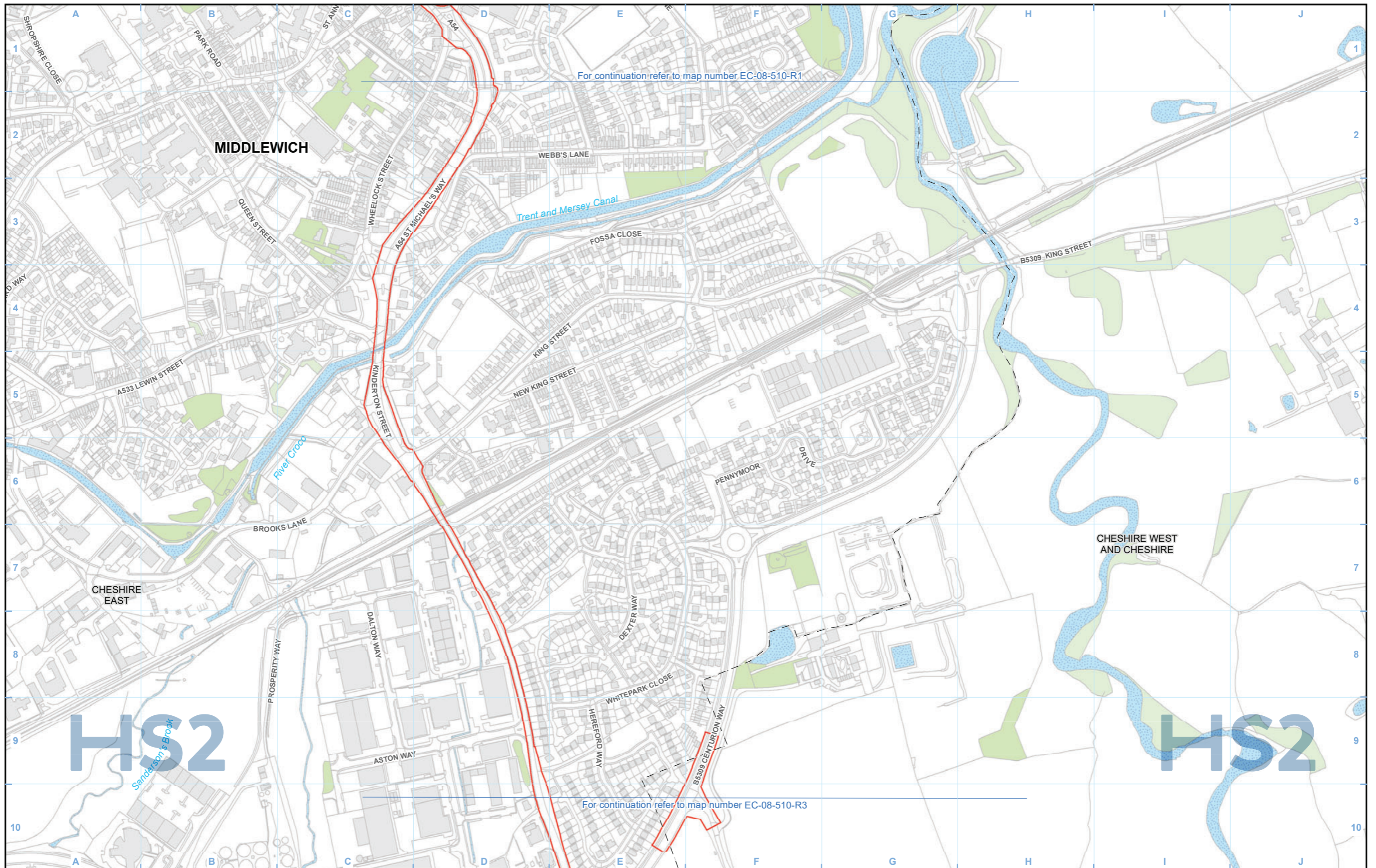
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-510-R2**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

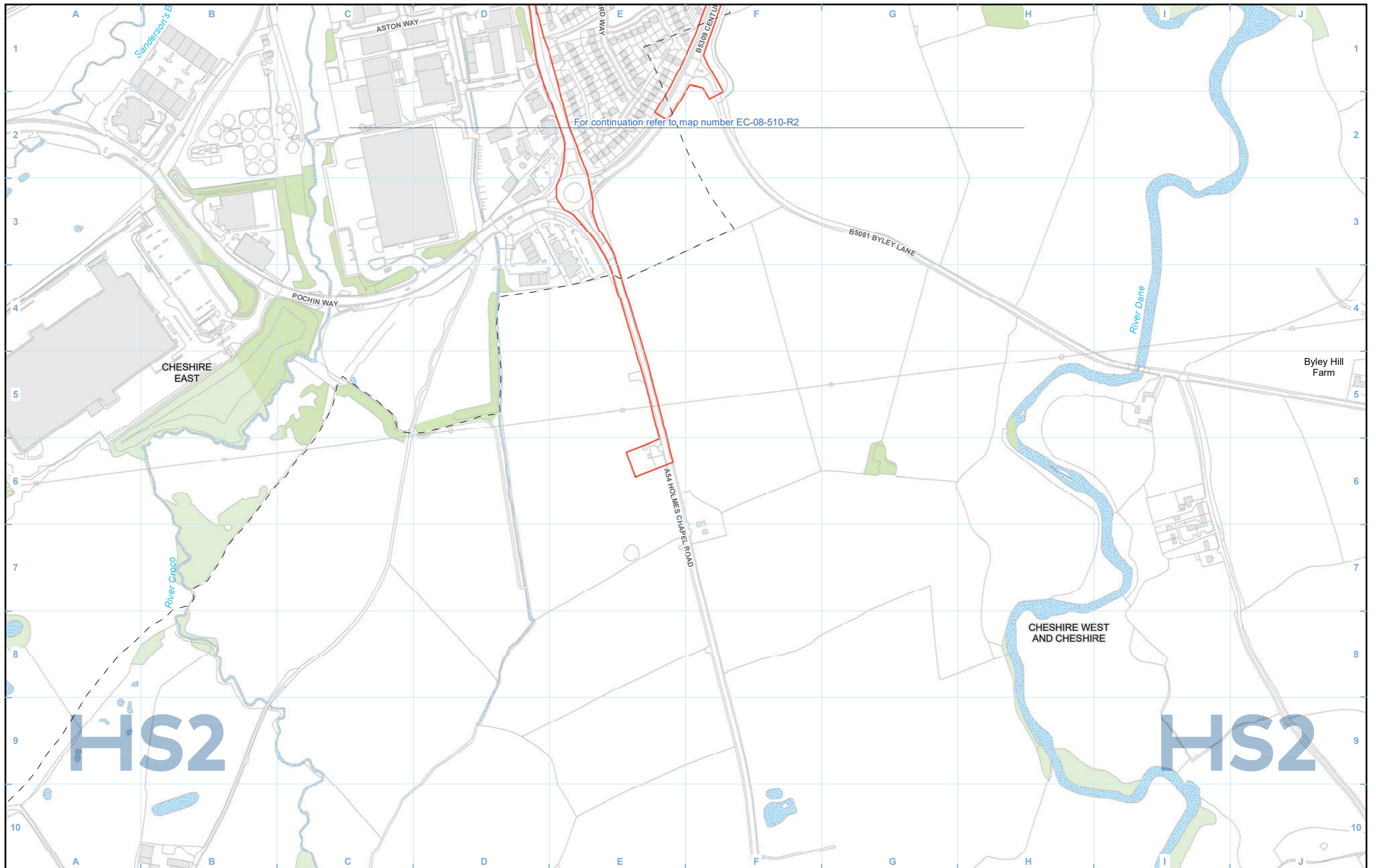
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For continuation refer to map number EC-08-510-R2

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-510-R3**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

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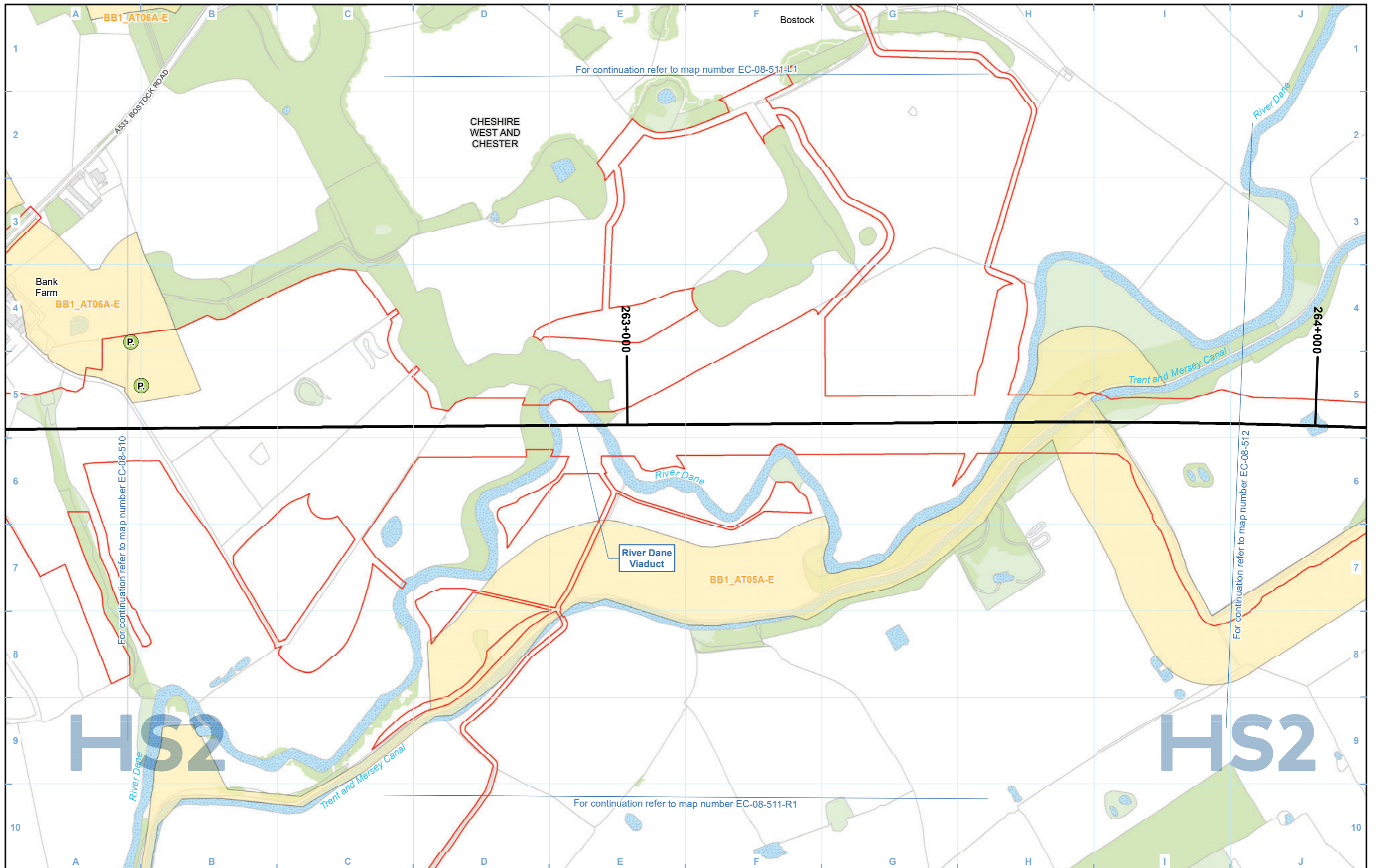
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Date: 12/08/21

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-511

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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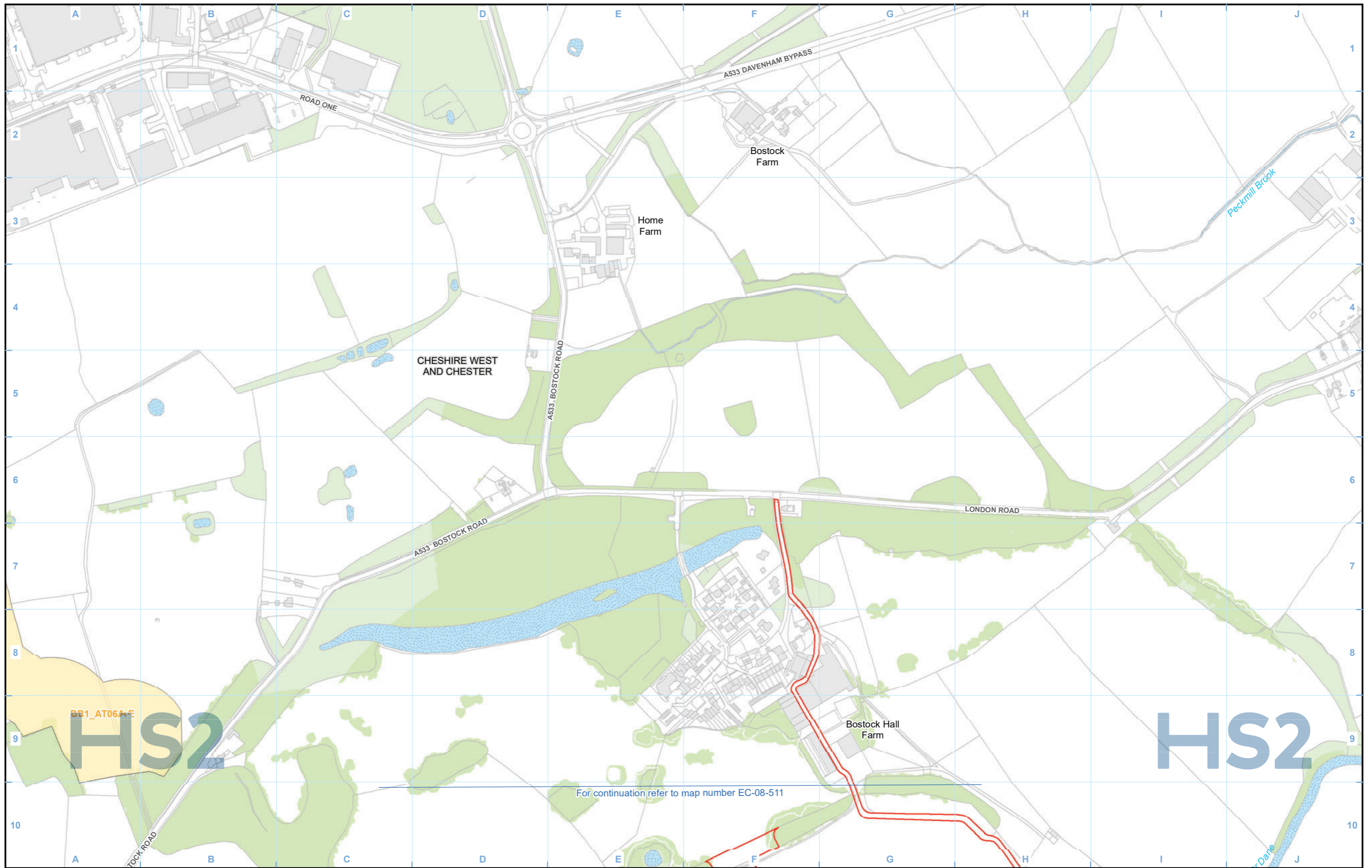
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Date: 12/08/21

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Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 	<ul style="list-style-type: none"> Breeding birds - survey extent
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For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-511-L1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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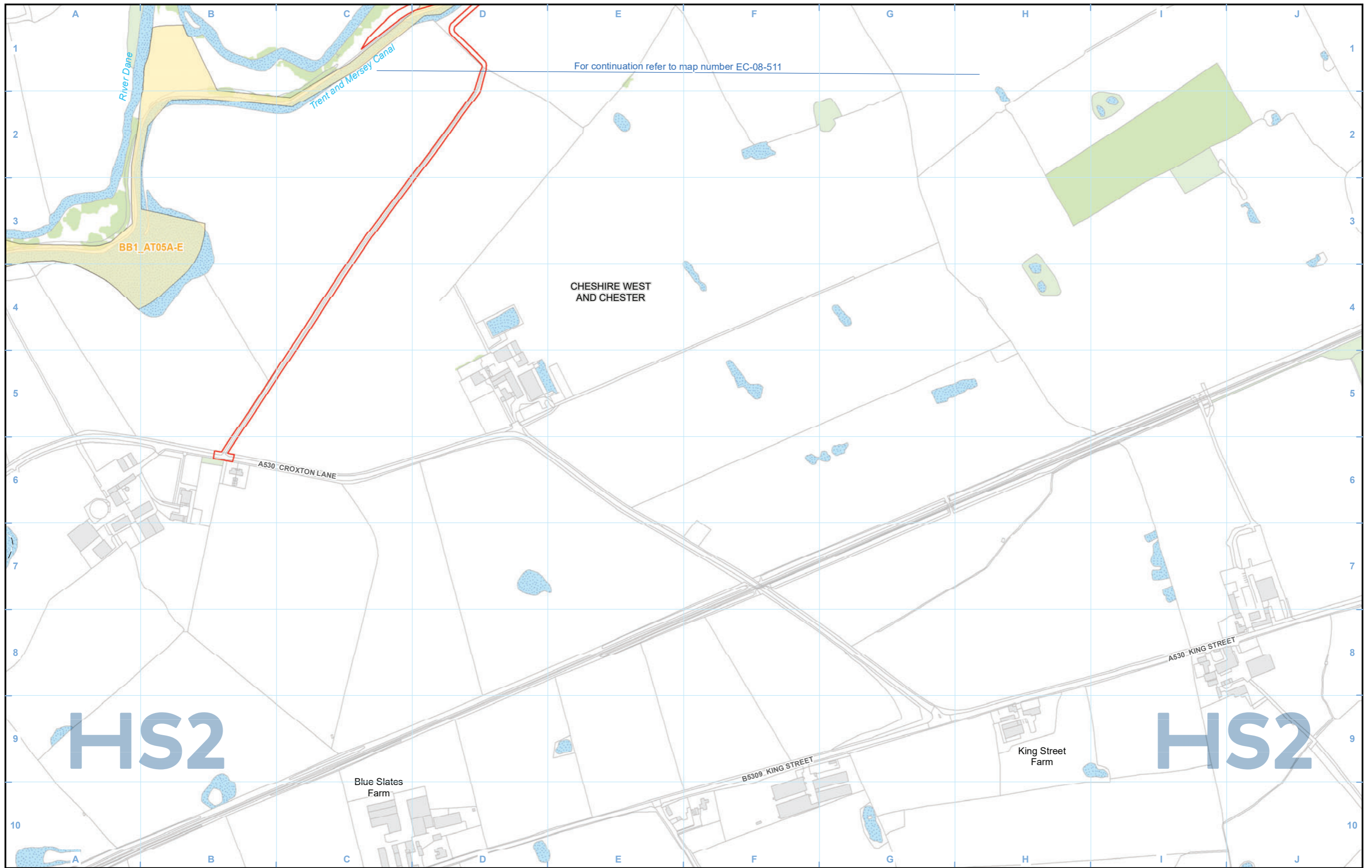
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For continuation refer to map number EC-08-511

BB1_AT05A-E

CHESHIRE WEST AND CHESTER

A530 CROXTON LANE

A530 KING STREET

B5309 KING STREET

Blue Slates Farm

King Street Farm

HS2

HS2

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-511-R1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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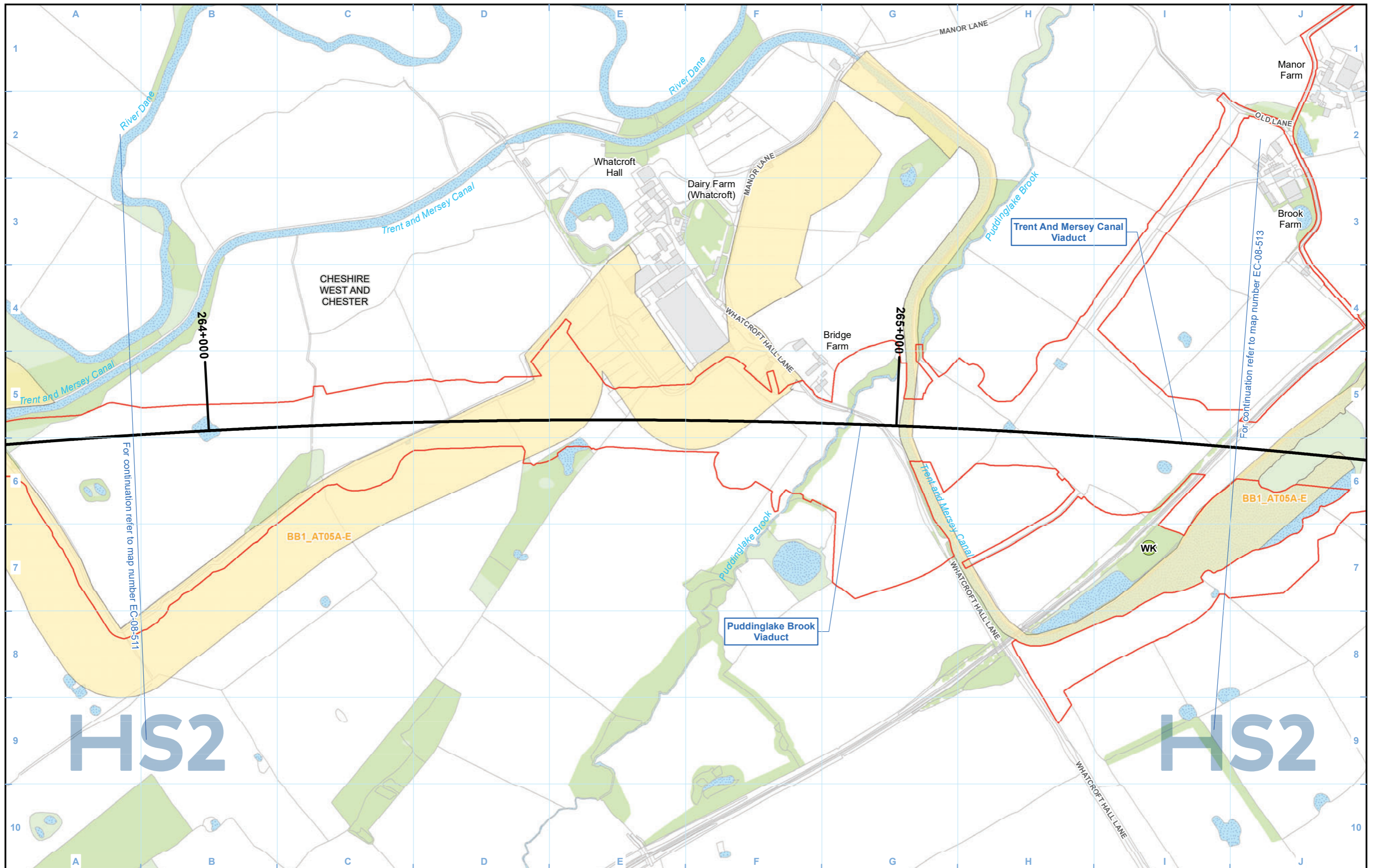
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0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-512

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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0 50 100 150 200 Metres



For continuation refer to map number EC-08-512-R2

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-512-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

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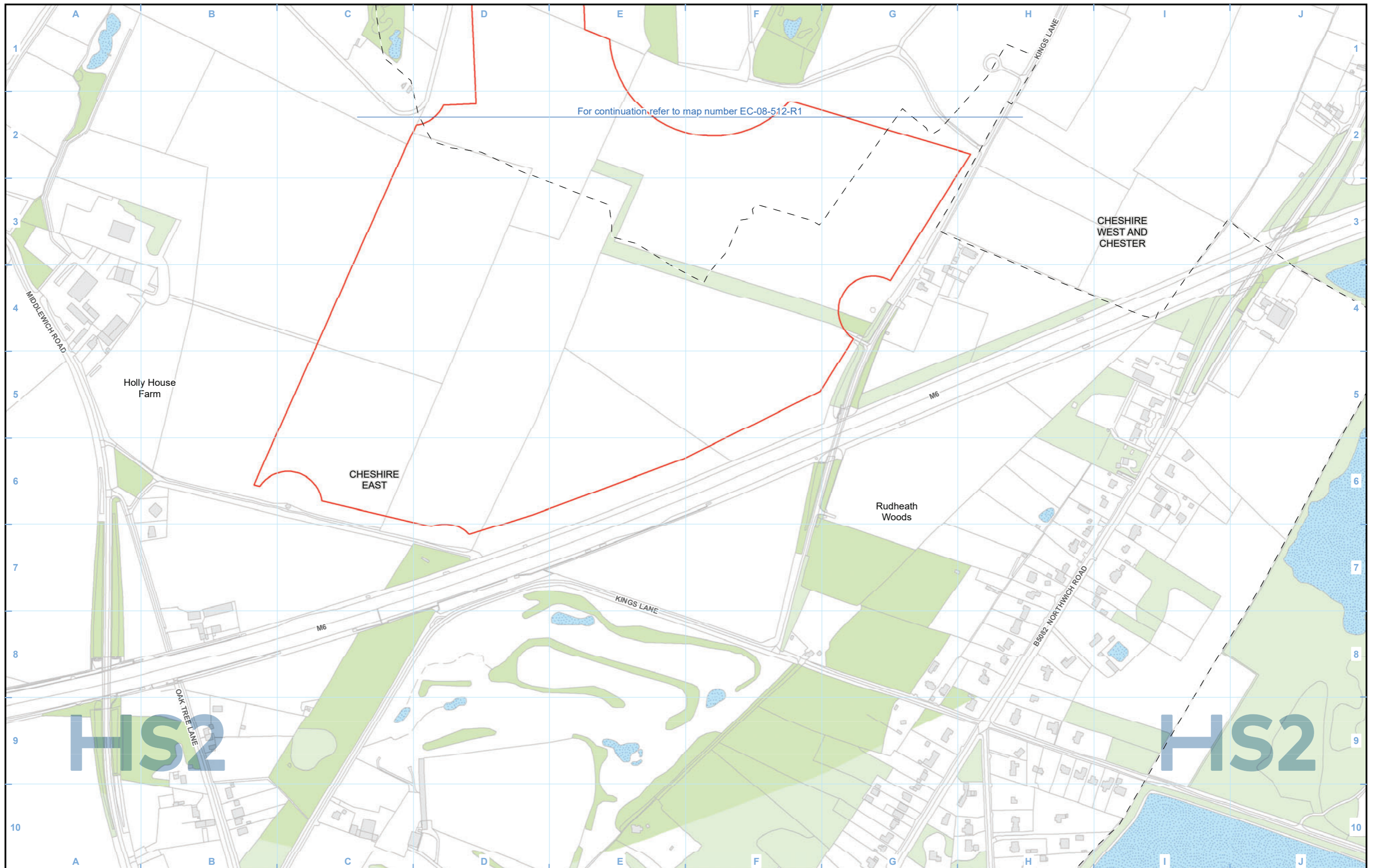
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Date: 12/08/21

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0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-512-R2**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

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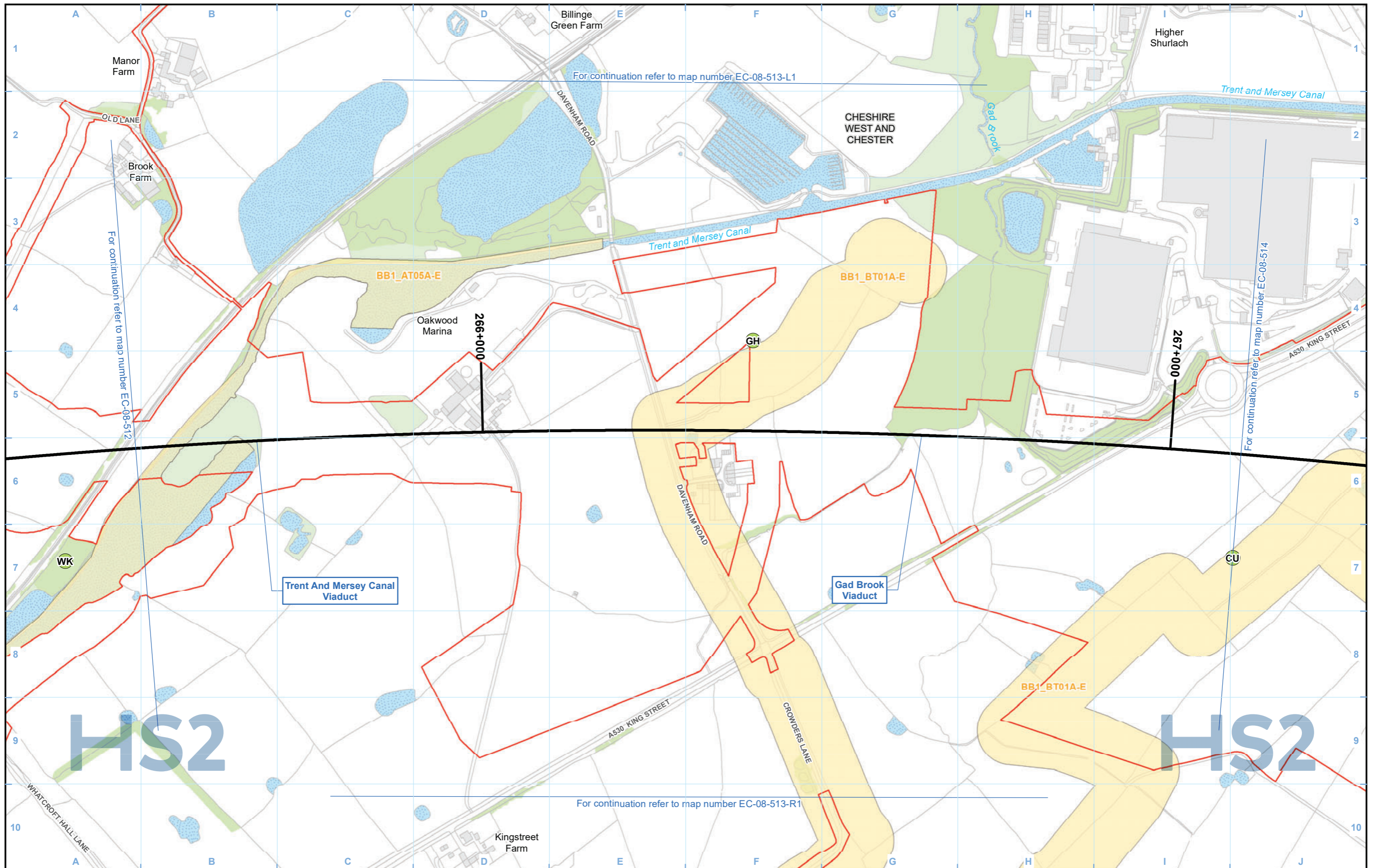
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Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-513

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

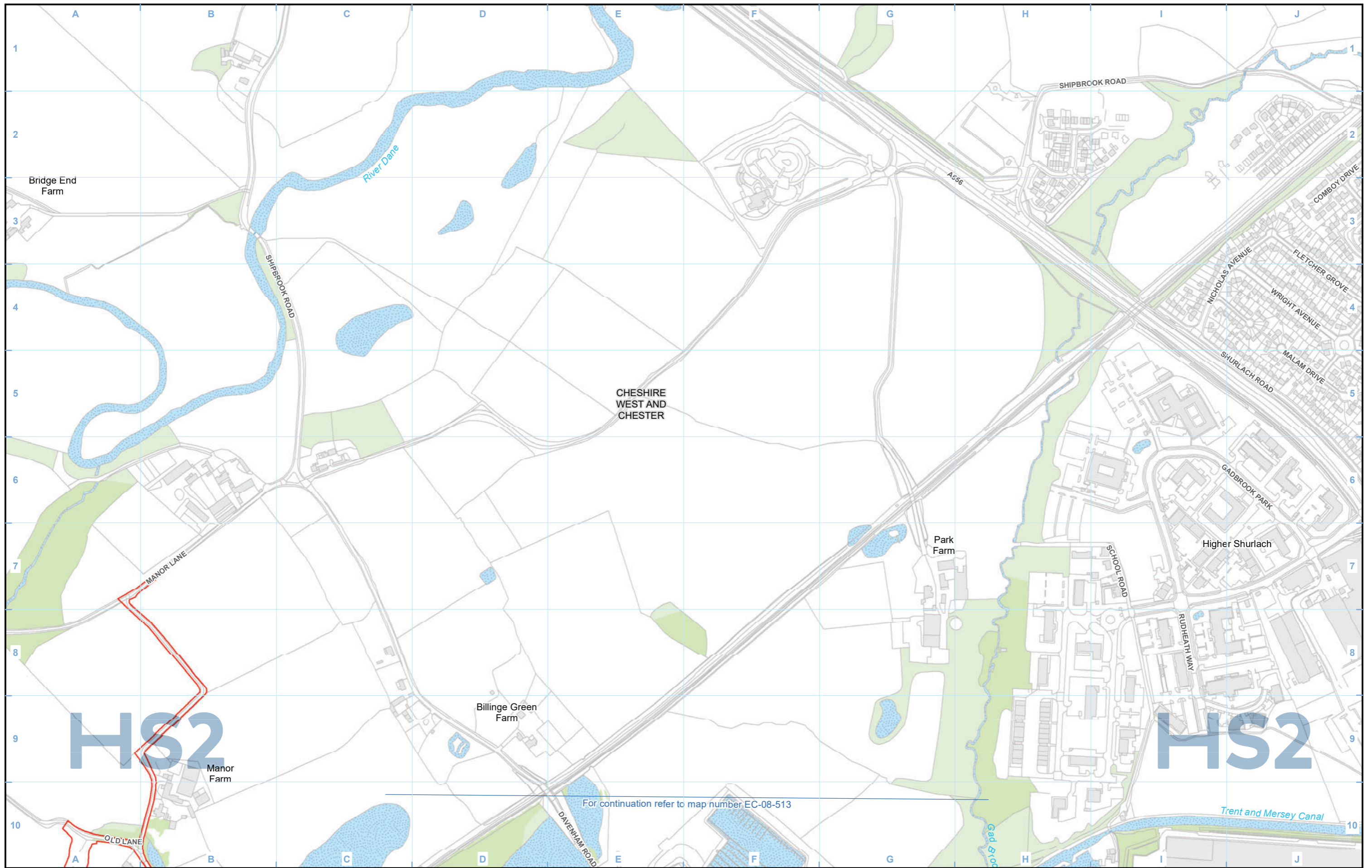
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-513-L1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

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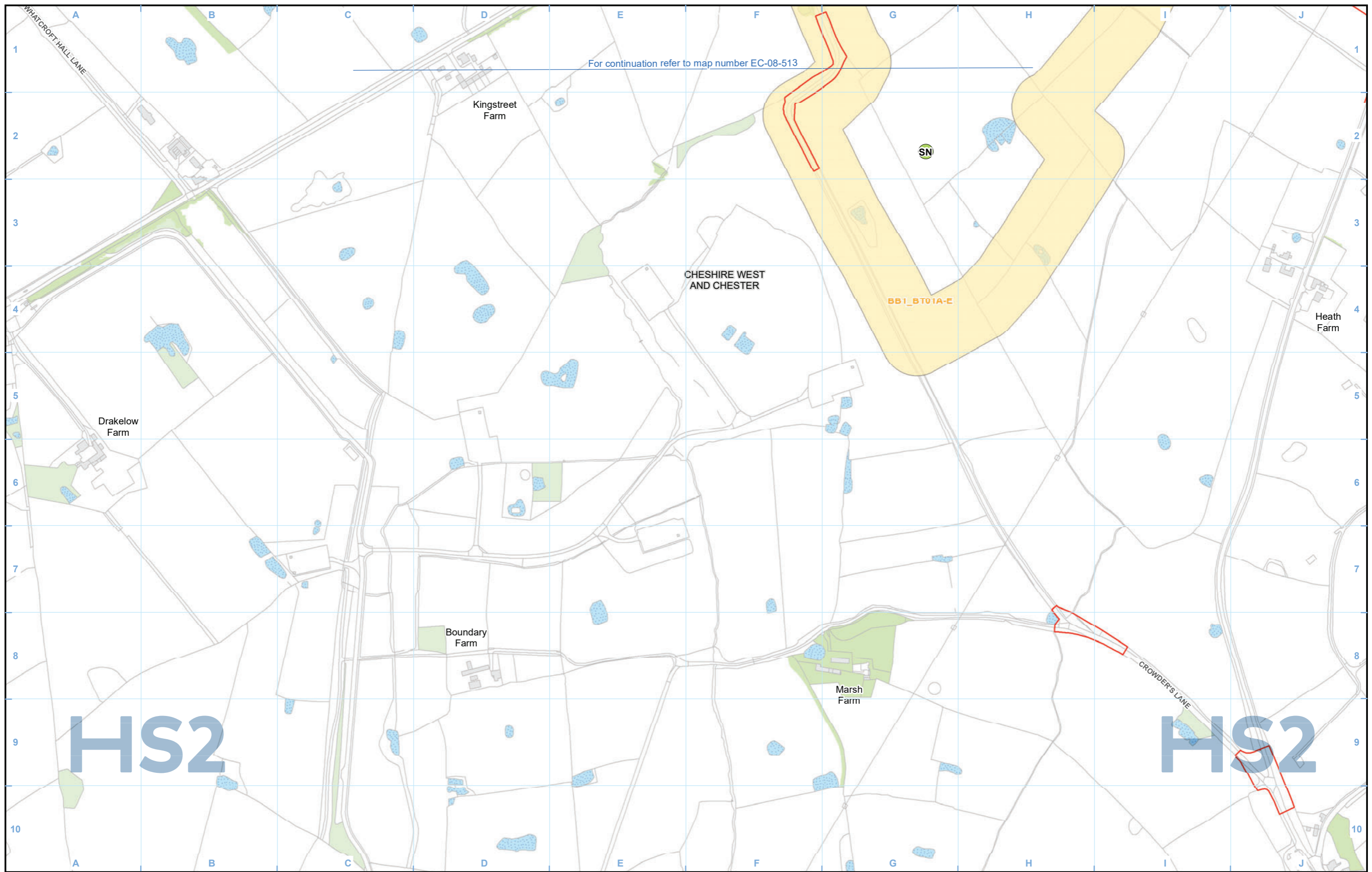
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Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-513-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

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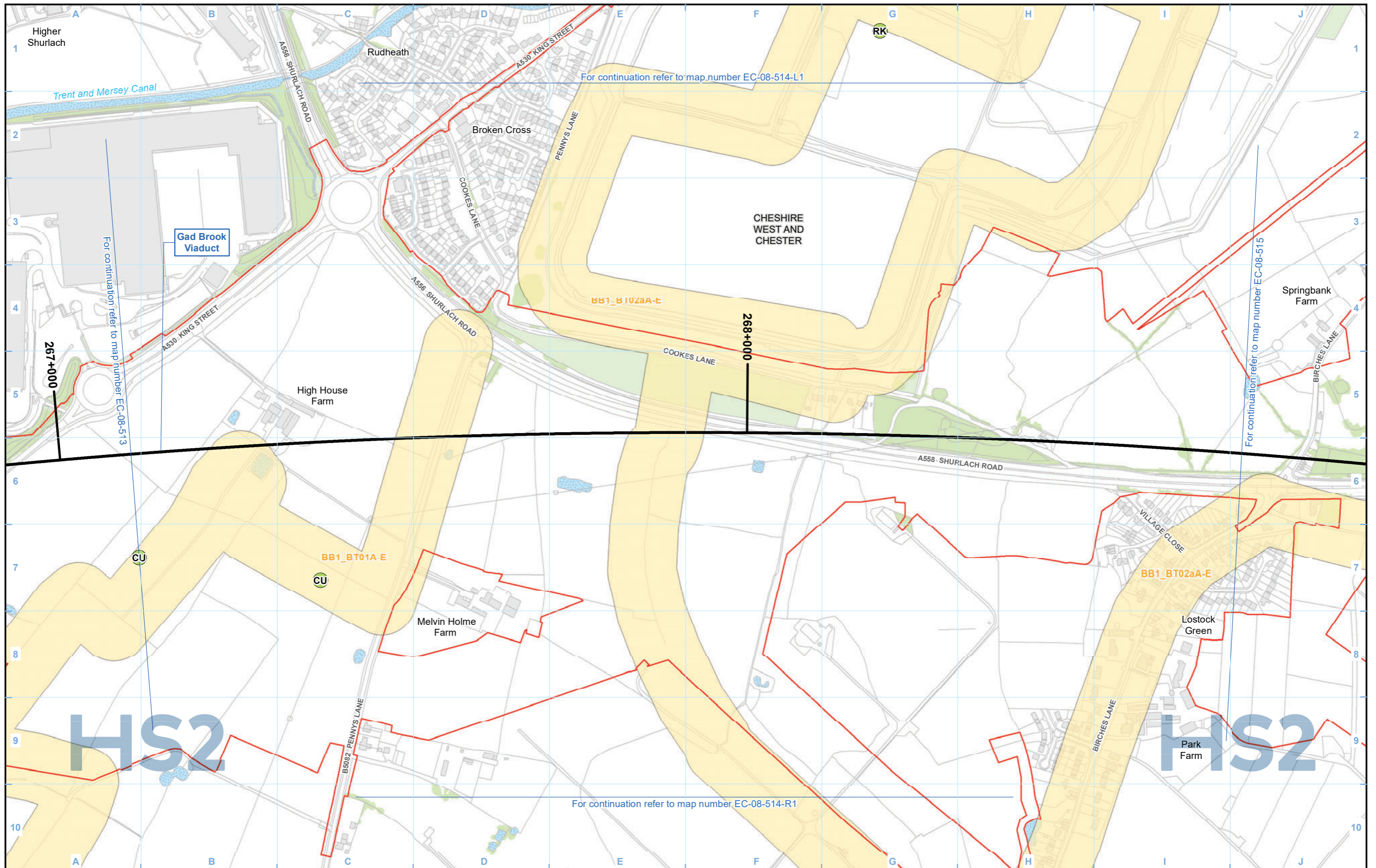
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0 50 100 150 200 Metres

Doc Number: 2DE01-MWJ-EV-MAP-M000-003231-P01

Date: 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-514

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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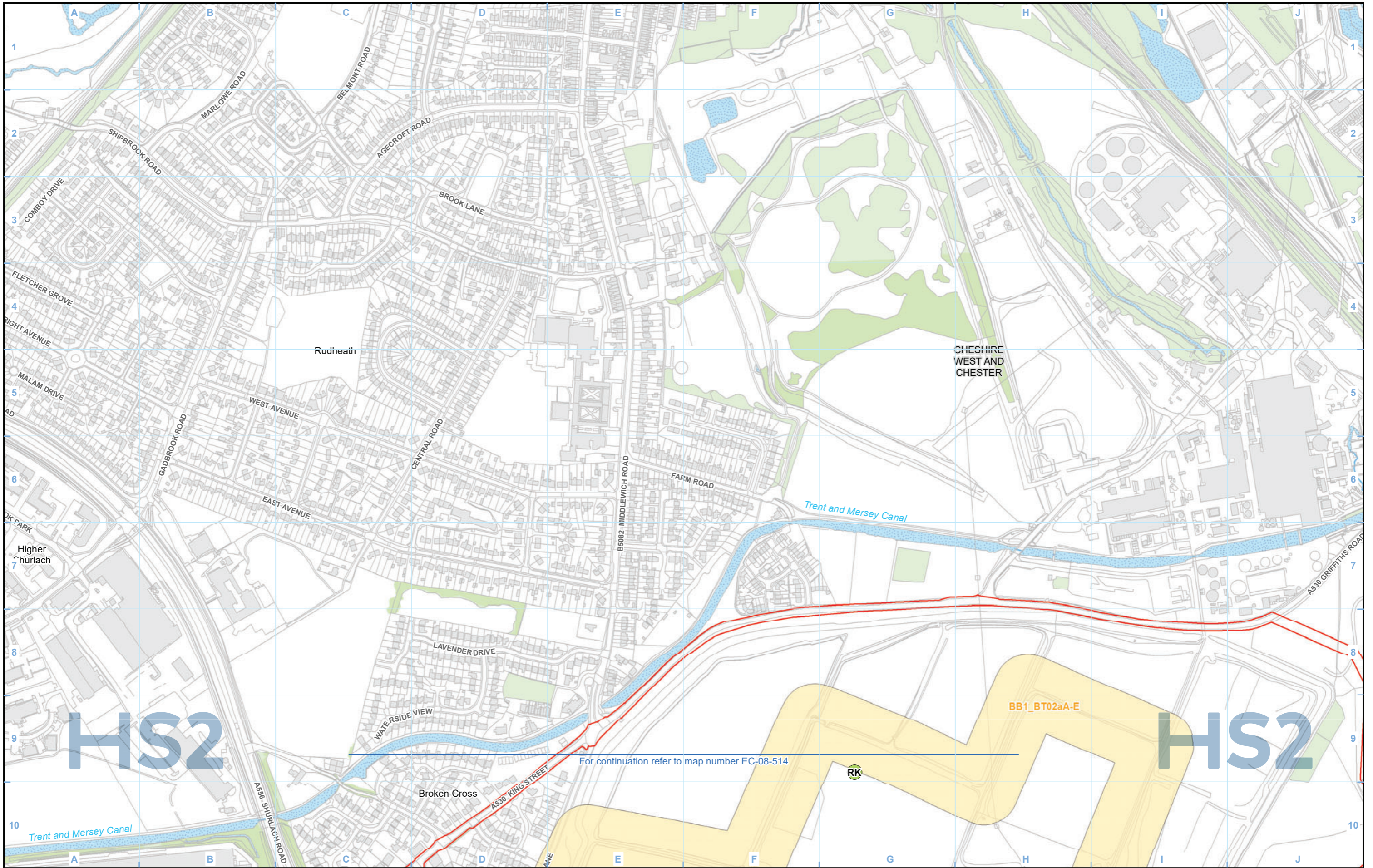
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Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-514-L1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

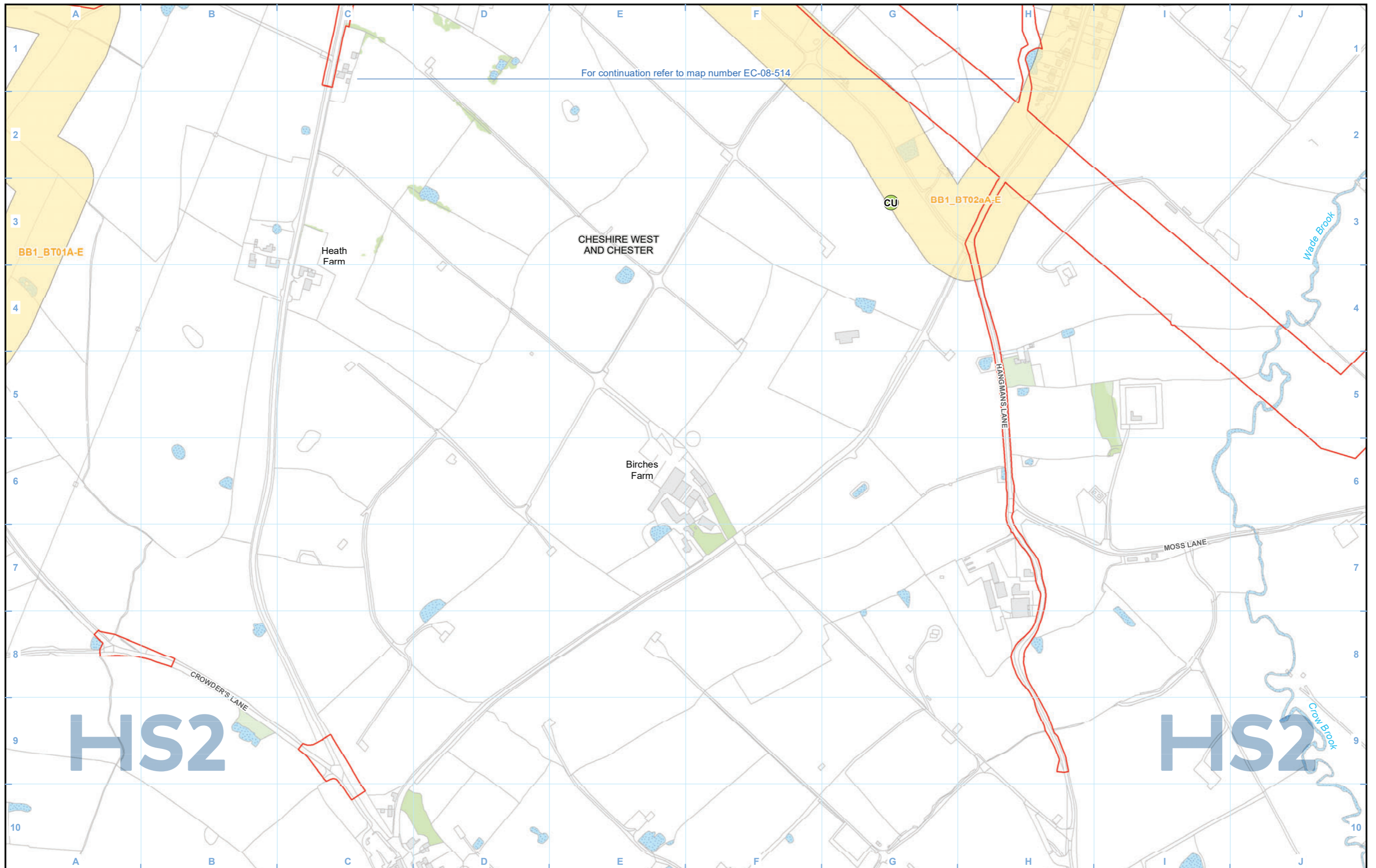
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Date: 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-514-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

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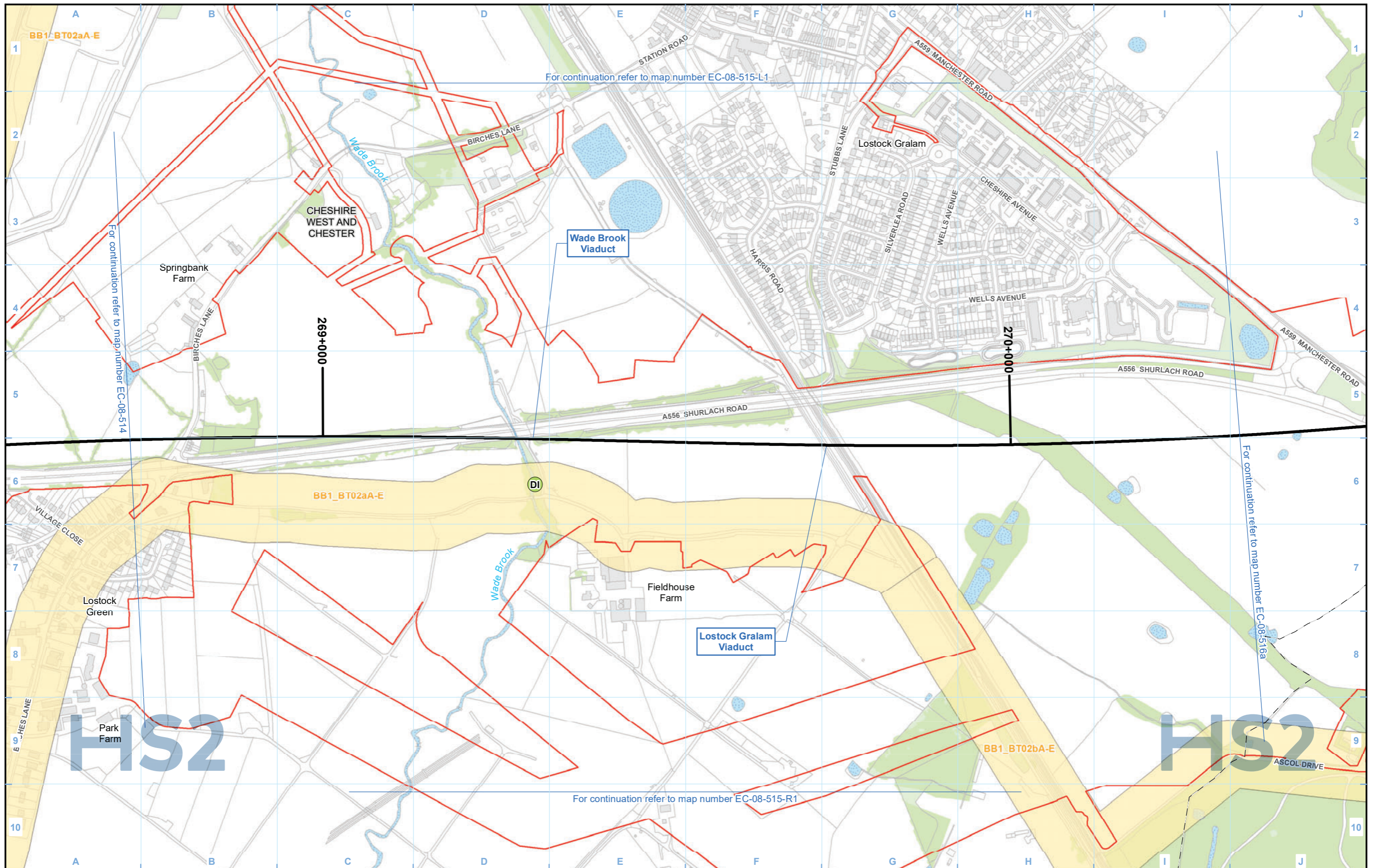
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Date: 12/08/21

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For continuation refer to map number EC-08-515-L1

For continuation refer to map number EC-08-514

For continuation refer to map number EC-08-516a

For continuation refer to map number EC-08-515-R1

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number EC-08-515

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

Hs2

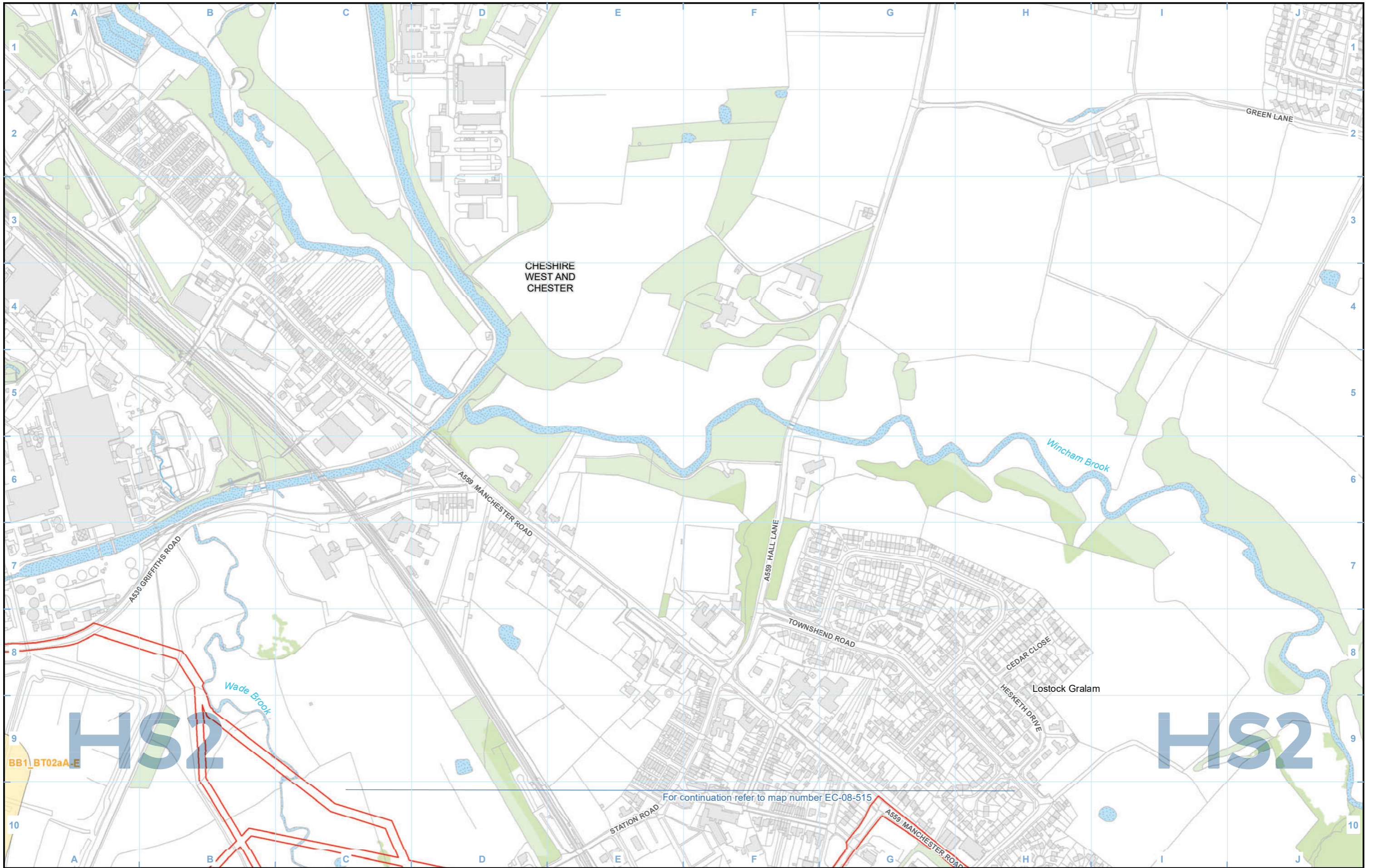
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Date: 12/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-515-L1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

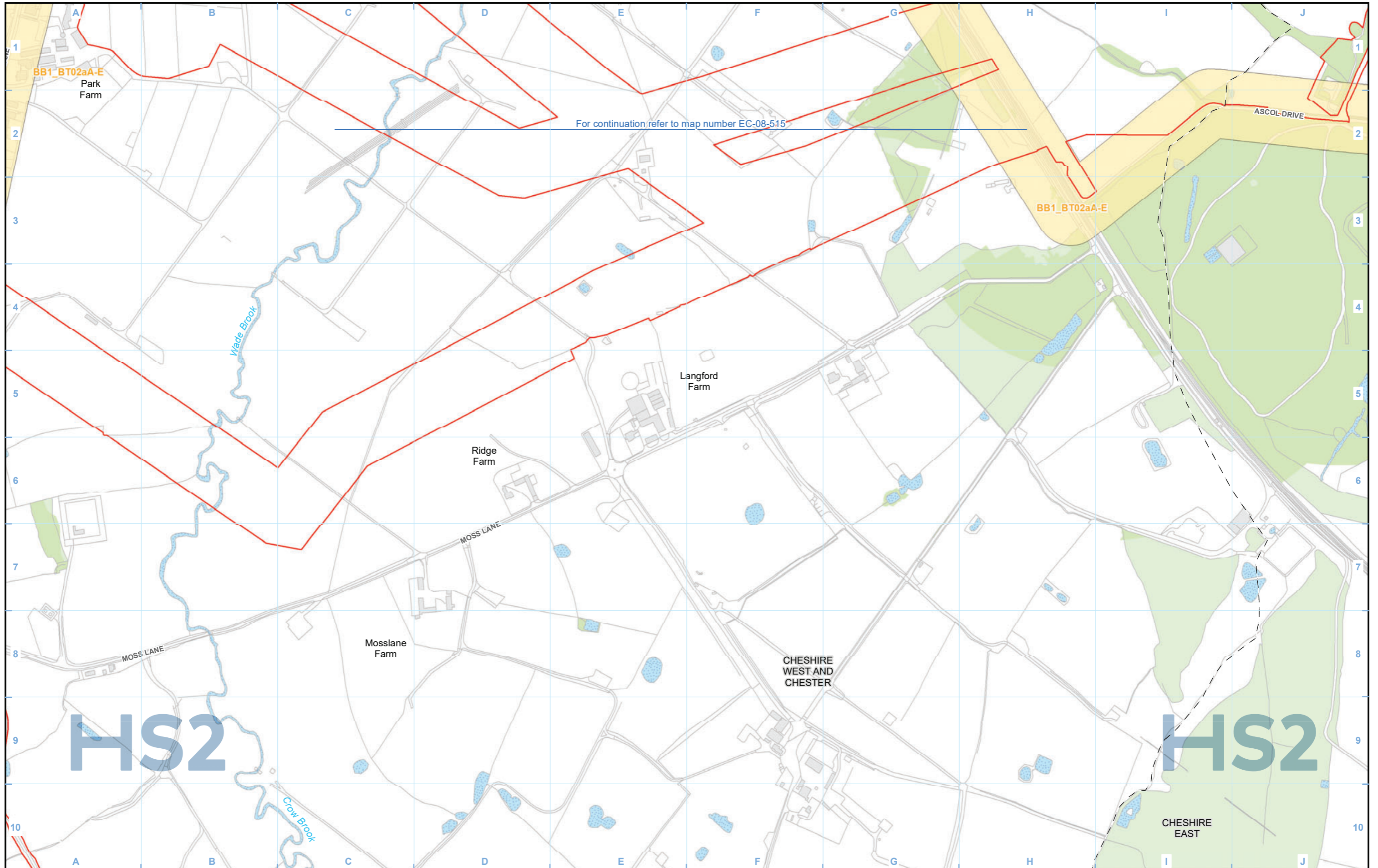
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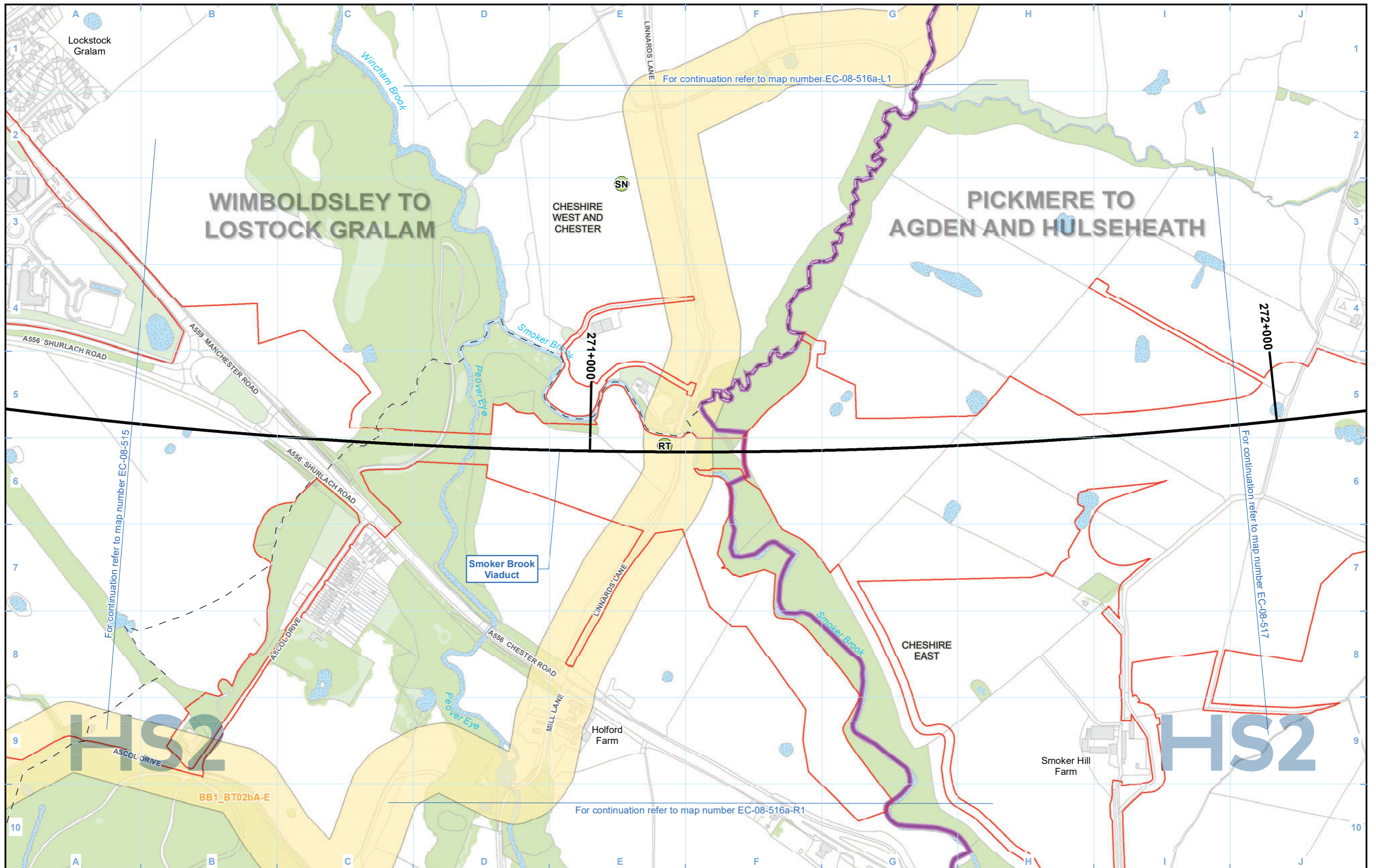
Legend

- | | | | | |
|--|---|--|---|---|
| <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) | <ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act | <ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment | <ul style="list-style-type: none"> Breeding birds - survey extent |
|--|---|--|---|---|

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number	EC-08-515-R1
Map Name	Breeding Birds – Protected and Notable Species
Community Area MA02: Wimboldsley to Lostock Gralam	

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number EC-08-516a

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

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WIMBOLDSLEY TO LOSTOCK GRALAM

PICKMERE TO AGDEN AND HULSEHEATH

For continuation refer to map number EC-08-516

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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-516a-L1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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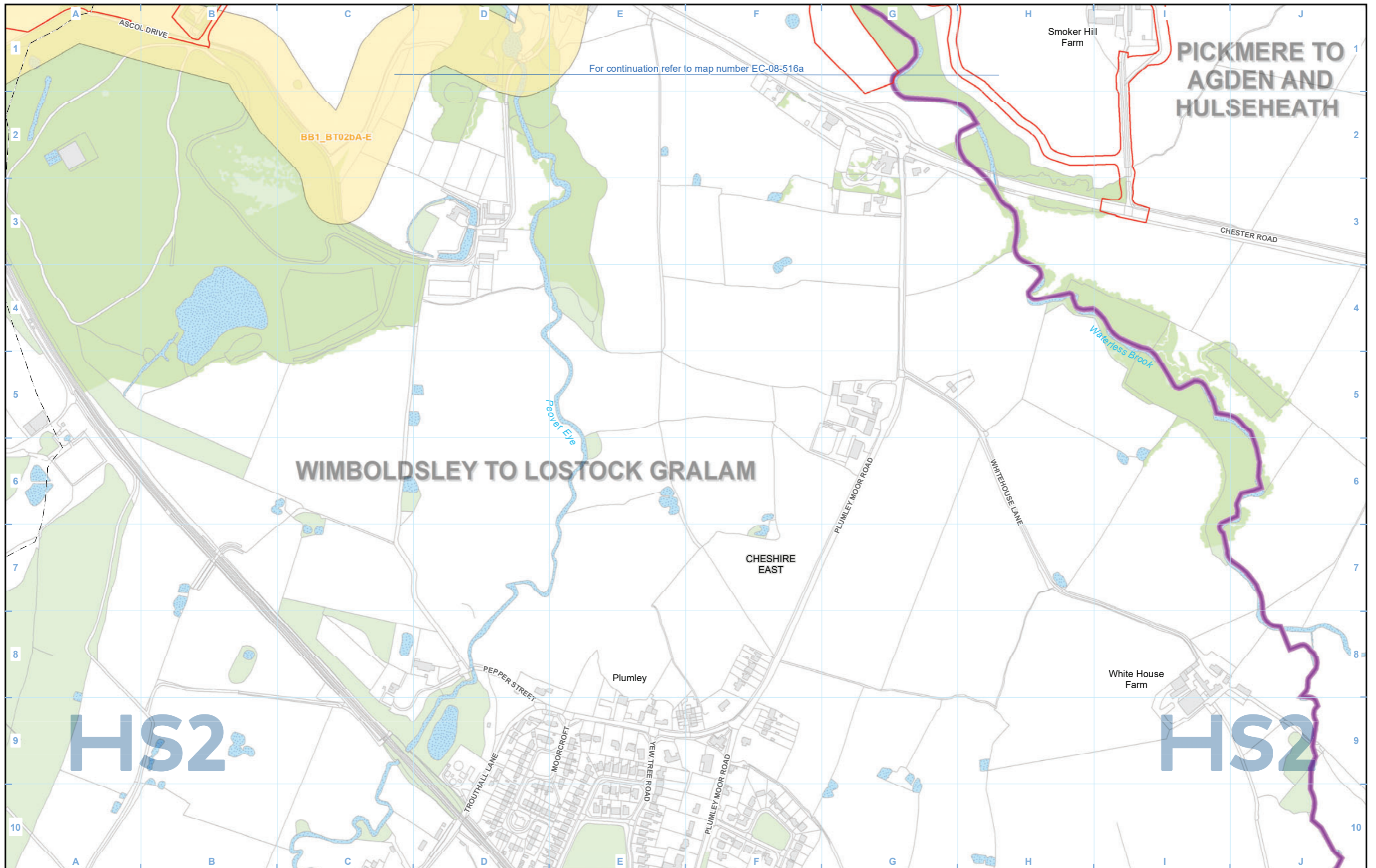
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Date: 12/08/21

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For continuation refer to map number EC-08-516a

PICKMERE TO AGDEN AND HULSEHEATH

WIMBOLDSLEY TO LOSTOCK GRALAM

CHESHIRE EAST

Plumley

White House Farm

HS2

HS2

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-516a-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

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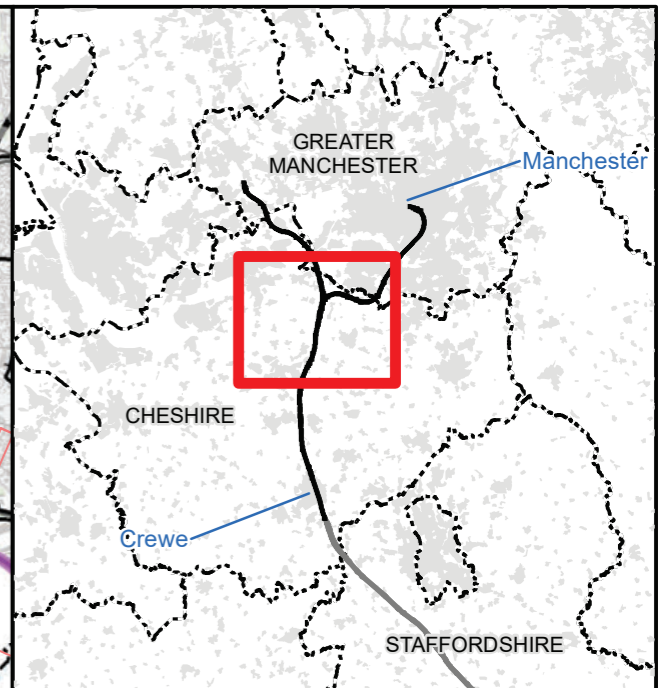
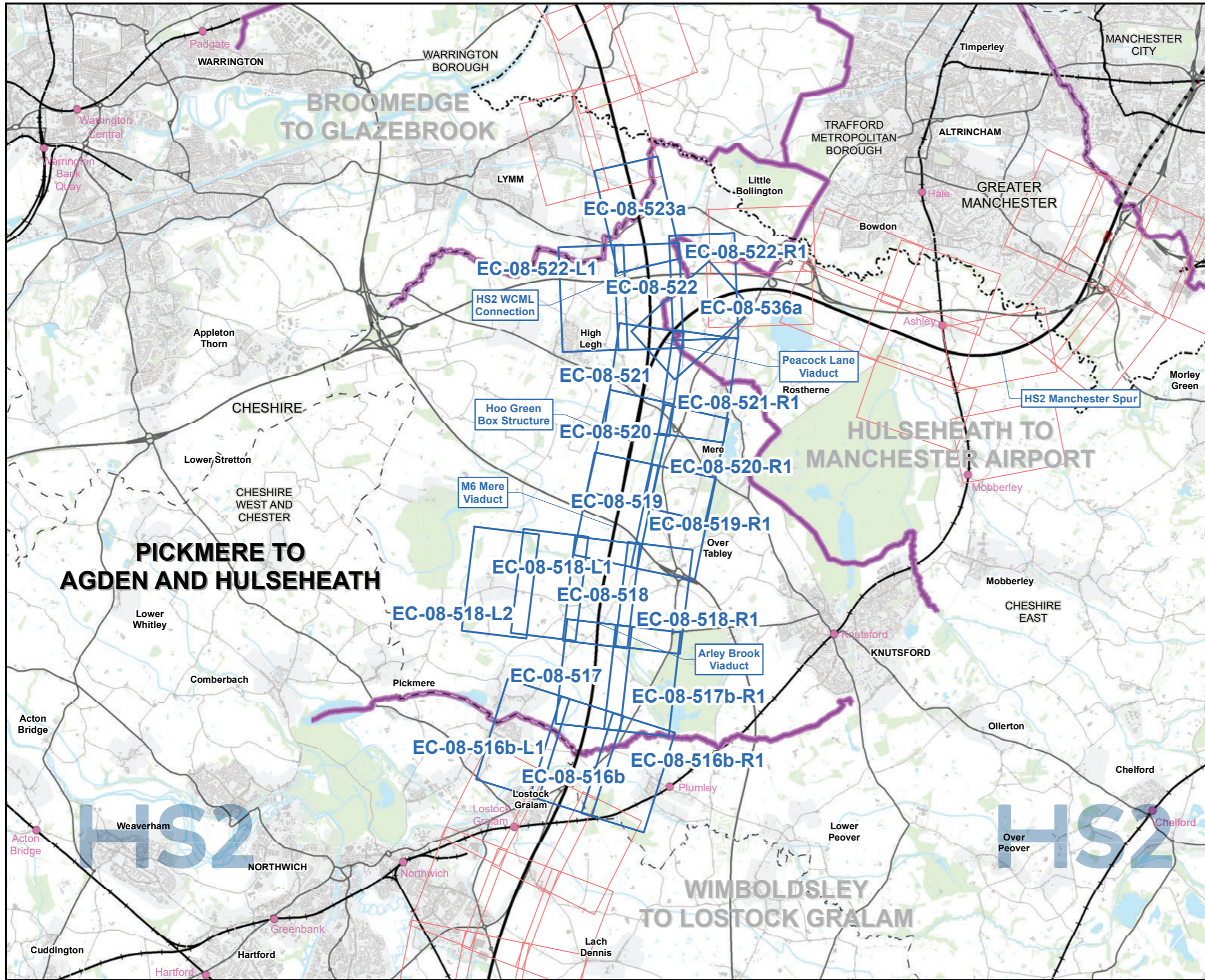
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Map Series Information:

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.

Main Map Legend

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

Map Number EC-08-INDEX-MA03

Map Name
**Index Map of:
 Breeding Birds – Protected and
 Notable Species**

Community Area MA03:
 Pickmere to Agden and Hulseheath

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BTO SPECIES CODES

AC	Arctic Skua	D.	Dunnock	K.	Kestrel	RN	Raven	SG	Starling
AE	Arctic Tern	EG	Egyptian Goose	KF	Kingfisher	RA	Razorbill	SD	Stock Dove
AV	Avocet	E.	Eider	KI	Kittiwake	RG	Red Grouse	SC	Stonechat
BO	Barn Owl	FP	Feral Pigeon	KN	Knot	KT	Red Kite	TN	Stone-curlew
BY	Barnacle Goose	ZL	Feral/hybrid goose	LM	Lady Amherst's Pheasant	ED	Red-backed Shrike	TM	Storm Petrel
BA	Bar-tailed Godwit	ZF	Feral/hybrid mallard type	LA	Lapland Bunting	RM	Red-breasted Merganser	SL	Swallow
BR	Bearded Tit	FF	Fieldfare	L.	Lapwing	RQ	Red-crested Pochard	SI	Swift
BS	Berwick's Swan	FC	Firecrest	TL	Leach's Petrel	FV	Red-footed Falcon	TO	Tawny Owl
BI	Bittern	F.	Fulmar	LB	Lesser Black-backed Gull	RL	Red-legged Partridge	T.	Teal
BK	Black Grouse	GA	Gadwall	LS	Lesser Spotted Woodpecker	NK	Red-necked Phalarope	TK	Temminck's Stint
TY	Black Guillemot	GX	Gannet	LW	Lesser Whitethroat	LR	Redpoll (Lesser)	TP	Tree Pipit
BX	Black Redstart	GW	Garden Warbler	LI	Linnet	RK	Redshank	TS	Tree Sparrow
BJ	Black Tern	GY	Garganey	ET	Little Egret	RT	Redstart	TC	Treecreeper
B.	Blackbird	GC	Goldcrest	LG	Little Grebe	RH	Red-throated Diver	TU	Tufted Duck
BC	Blackcap	EA	Golden Eagle	LU	Little Gull	RE	Redwing	TT	Turnstone
BH	Black-headed Gull	OL	Golden Oriole	LO	Little Owl	RB	Reed Bunting	TD	Turtle Dove
BN	Black-necked Grebe	GF	Golden Pheasant	LP	Little Ringed Plover	RW	Reed Warbler	TW	Twite
BW	Black-tailed Godwit	GP	Golden Plover	AF	Little Tern	RZ	Ring Ouzel	WA	Water Rail
BV	Black-throated Diver	GN	Goldeneye	LE	Long-eared Owl	RP	Ringed Plover	W.	Wheatear
BT	Blue Tit	GO	Goldfinch	LT	Long-tailed Tit	RI	Ring-necked Parakeet	WM	Whimbrel
BU	Bluethroat	GD	Goosander	MG	Magpie	R.	Robin	WC	Whinchat
BL	Brambling	GI	Goshawk	MA	Mallard	DV	Rock Dove (not feral)	WG	White-fronted Goose
BG	Brent Goose	GH	Grasshopper Warbler	MN	Mandarin Duck	RC	Rock Pipit	WH	Whitethroat
BF	Bullfinch	GB	Great Black-backed Gull	MX	Manx Shearwater	RO	Rook	WS	Whooper Swan
BZ	Buzzard	GG	Great Crested Grebe	MR	Marsh Harrier	RS	Roseate Tern	WN	Wigeon
CG	Canada Goose	ND	Great Northern Diver	MT	Marsh Tit	RY	Ruddy Duck	WT	Willow Tit
CP	Capercaillie	NX	Great Skua	MW	Marsh Warbler	RU	Ruff	WW	Willow Warbler
C.	Carrion Crow	GS	Great Spotted Woodpecker	MP	Meadow Pipit	SM	Sand Martin	OD	Wood Sandpiper
CW	Cetti's Warbler	GT	Great Tit	MU	Mediterranean Gull	SS	Sanderling	WO	Wood Warbler
CH	Chaffinch	GE	Green Sandpiper	ML	Merlin	TE	Sandwich Tern	WK	Woodcock
CC	Chiffchaff	G.	Green Woodpecker	M.	Mistle Thrush	VI	Savi's Warbler	WL	Woodlark
CF	Chough	GR	Greenfinch	MO	Montagu's Harrier	SQ	Scarlet Rosefinch	WP	Woodpigeon
CL	Cirl Bunting	GK	Greenshank	MH	Moorhen	SP	Scaup	WR	Wren
CT	Coal Tit	H.	Grey Heron	MS	Mute Swan	CY	Scottish Crossbill	WY	Wryneck
CD	Collared Dove	P.	Grey Partridge	N.	Nightingale	SW	Sedge Warbler	YW	Yellow Wagtail
CM	Common Gull	GV	Grey Plover	NJ	Nightjar	NS	Serin	Y.	Yellowhammer
CS	Common Sandpiper	GL	Grey Wagtail	NH	Nuthatch	SA	Shag		
CX	Common Scoter	GJ	Greylag Goose	OP	Osprey	SU	Shelduck		
CN	Common Tern	GU	Guillemot	OC	Oystercatcher	SX	Shorelark		
CO	Coot	FW	Guineafowl (Helmeted)	PX	Peafowl/Peacock	SE	Short-eared Owl		
CA	Cormorant	HF	Hawfinch	PE	Peregrine	SV	Shoveler		
CB	Corn Bunting	HH	Hen Harrier	PH	Pheasant	SK	Siskin		
CE	Corncrake	HG	Herring Gull	PF	Pied Flycatcher	S.	Skylark		
CI	Crested Tit	HY	Hobby	PW	Pied Wagtail	SZ	Slavonian Grebe		
CR	Crossbill (Common)	HZ	Honey Buzzard	PG	Pink-footed Goose	SN	Snipe		
CK	Cuckoo	HC	Hooded Crow	PT	Pintail	SB	Snow Bunting		
CU	Curlew	HP	Hoopoe	PO	Pochard	ST	Song Thrush		
DW	Dartford Warbler	HM	House Martin	PM	Ptarmigan	SH	Sparrowhawk		
DI	Dipper	HS	House Sparrow	PU	Puffin	AK	Spotted Crake		
DO	Dotterel	JD	Jackdaw	PS	Purple Sandpiper	SF	Spotted Flycatcher		
DN	Dunlin	J.	Jay	Q.	Quail	DR	Spotted Redshank		

Map Number	EC-08 Legend
Map Name	EC-08 BTO Bird Species Legend

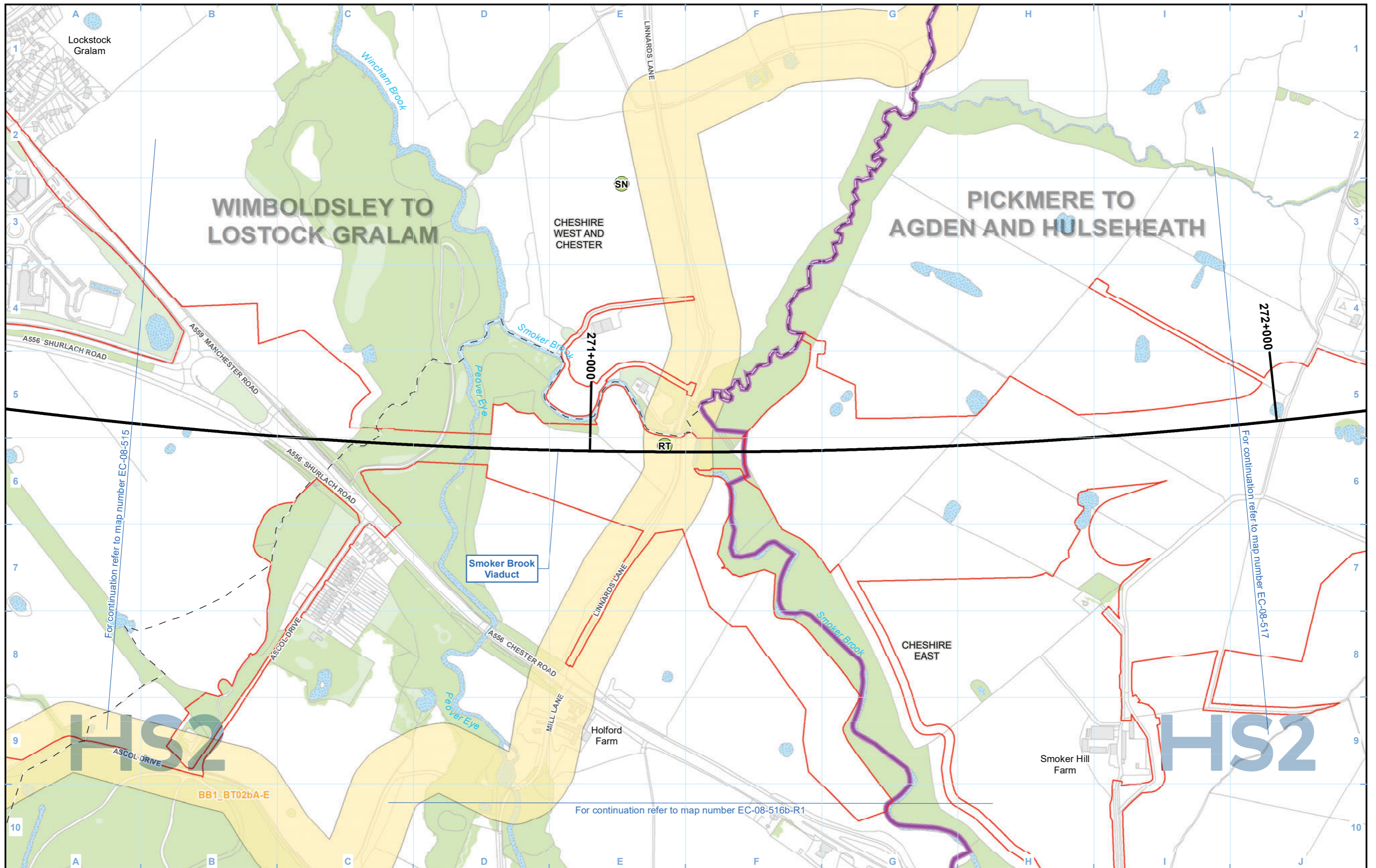
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Legend

- 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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-516b

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseheath

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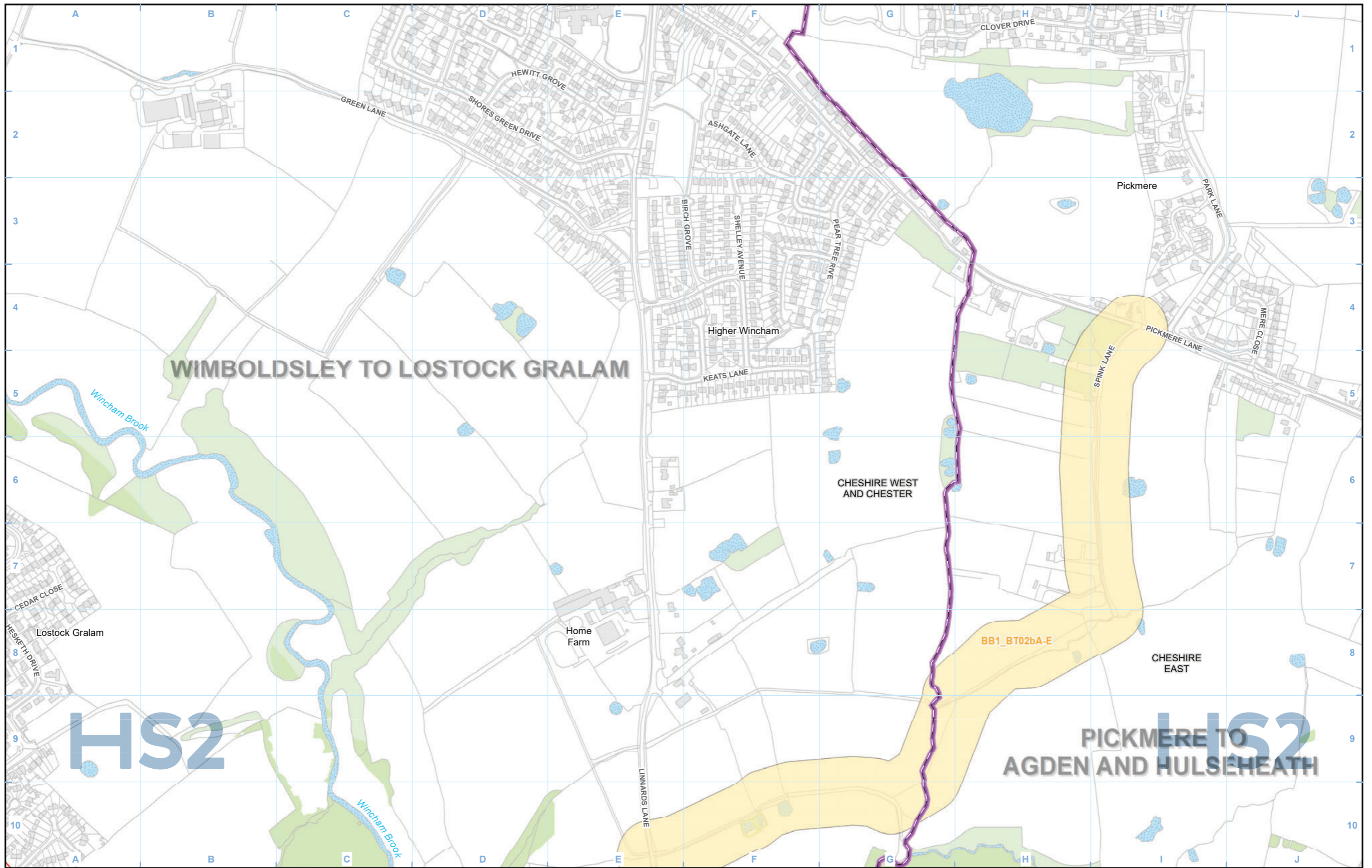
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number EC-08-516b-L1

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

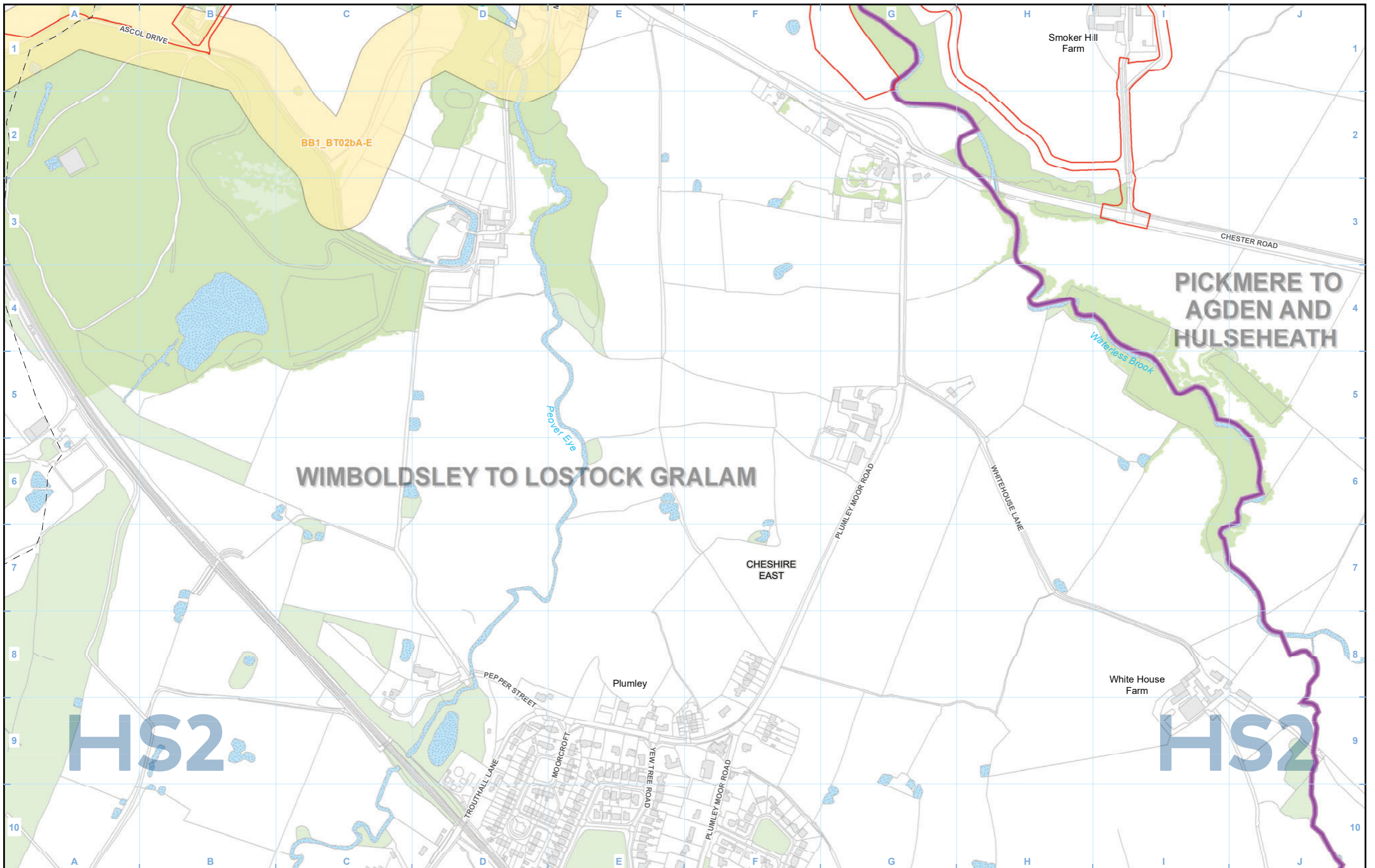
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WIMBOLDSLEY TO LOSTOCK GRALAM

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 (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-516b-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

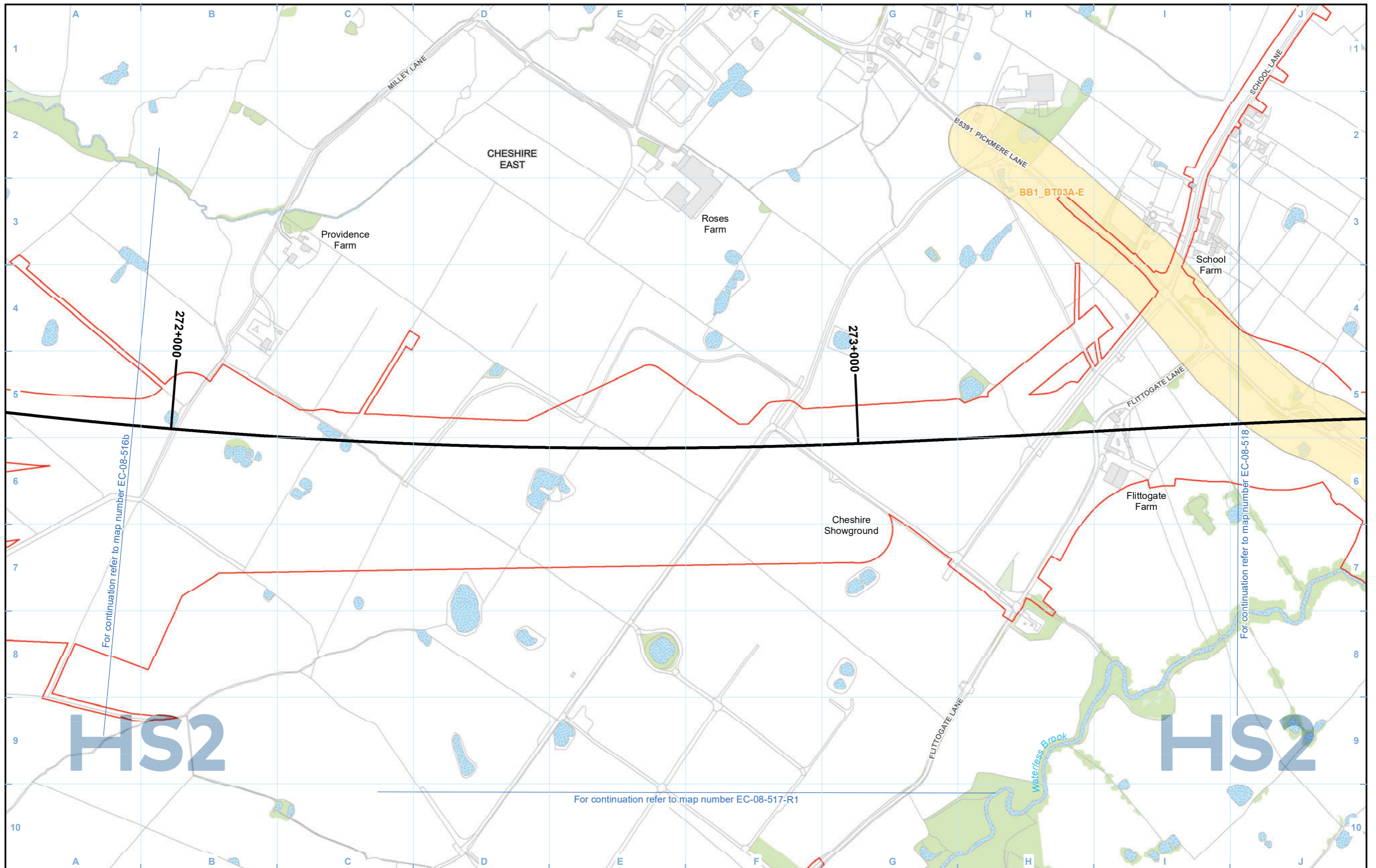
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Legend

- 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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-517

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseheath

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-517-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

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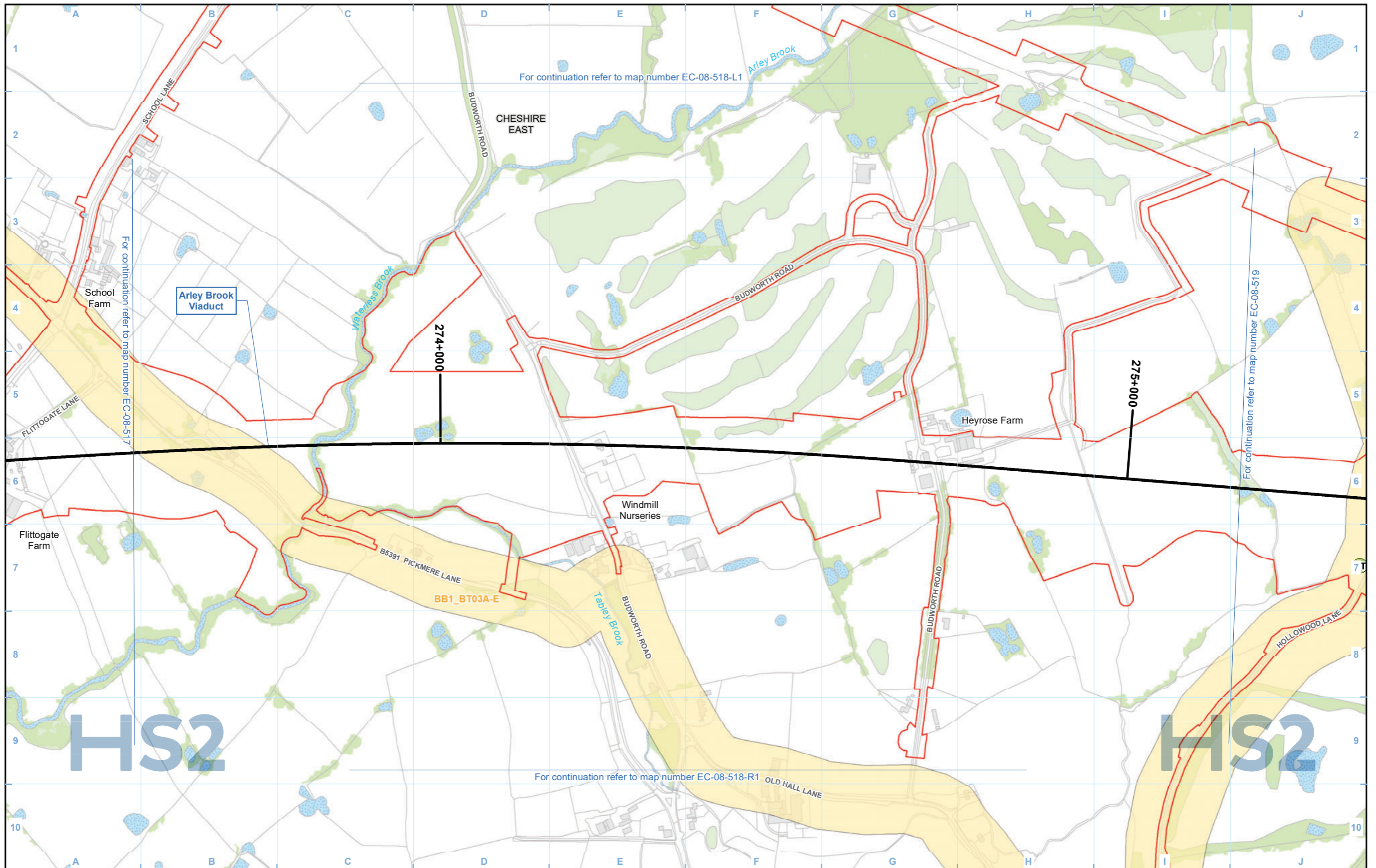
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-518

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

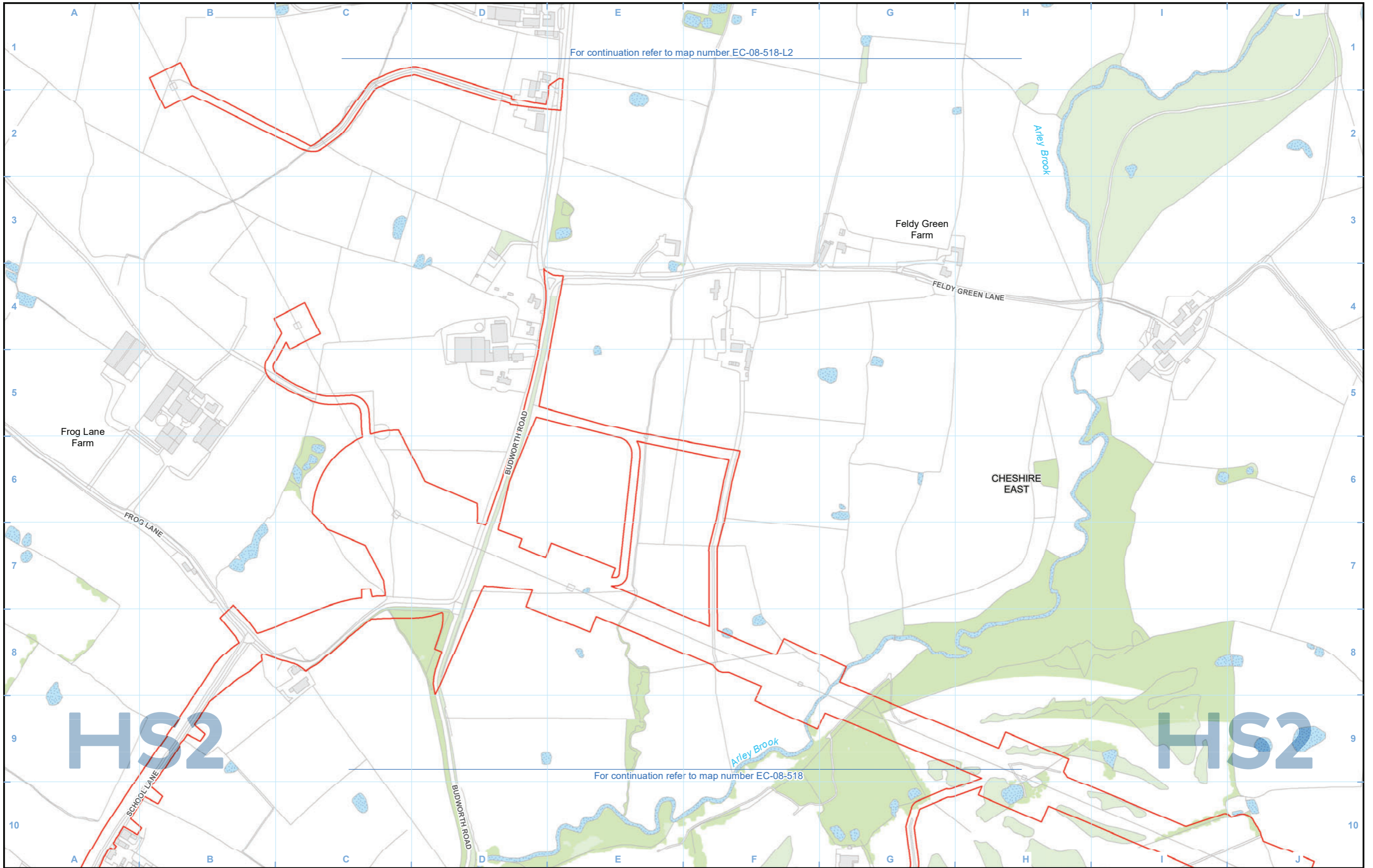
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-518-L1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-518-L2**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

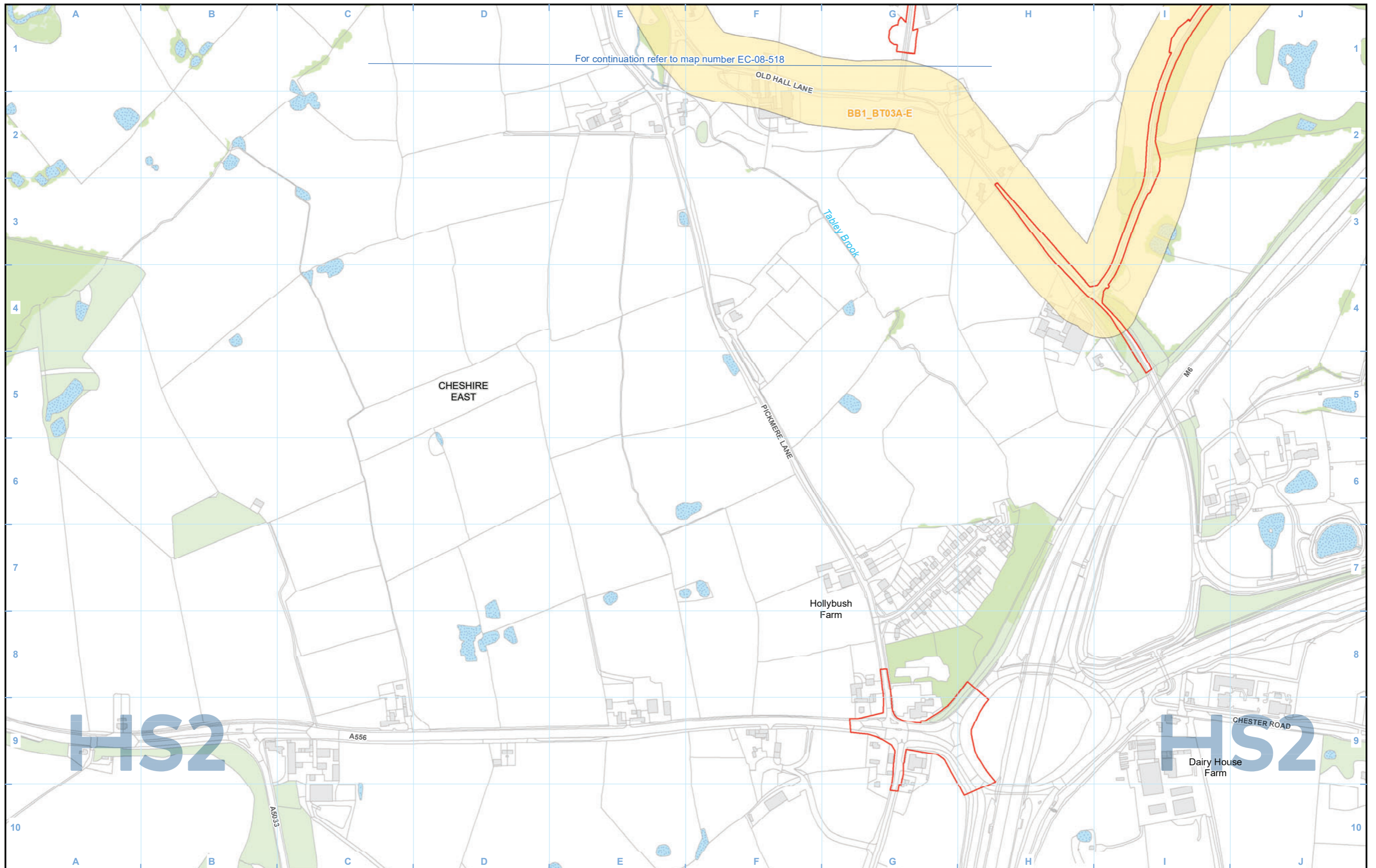
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For continuation refer to map number EC-08-518

BB1_BT03A-E

CHESHIRE EAST

Hollybush Farm

Dairy House Farm

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-518-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

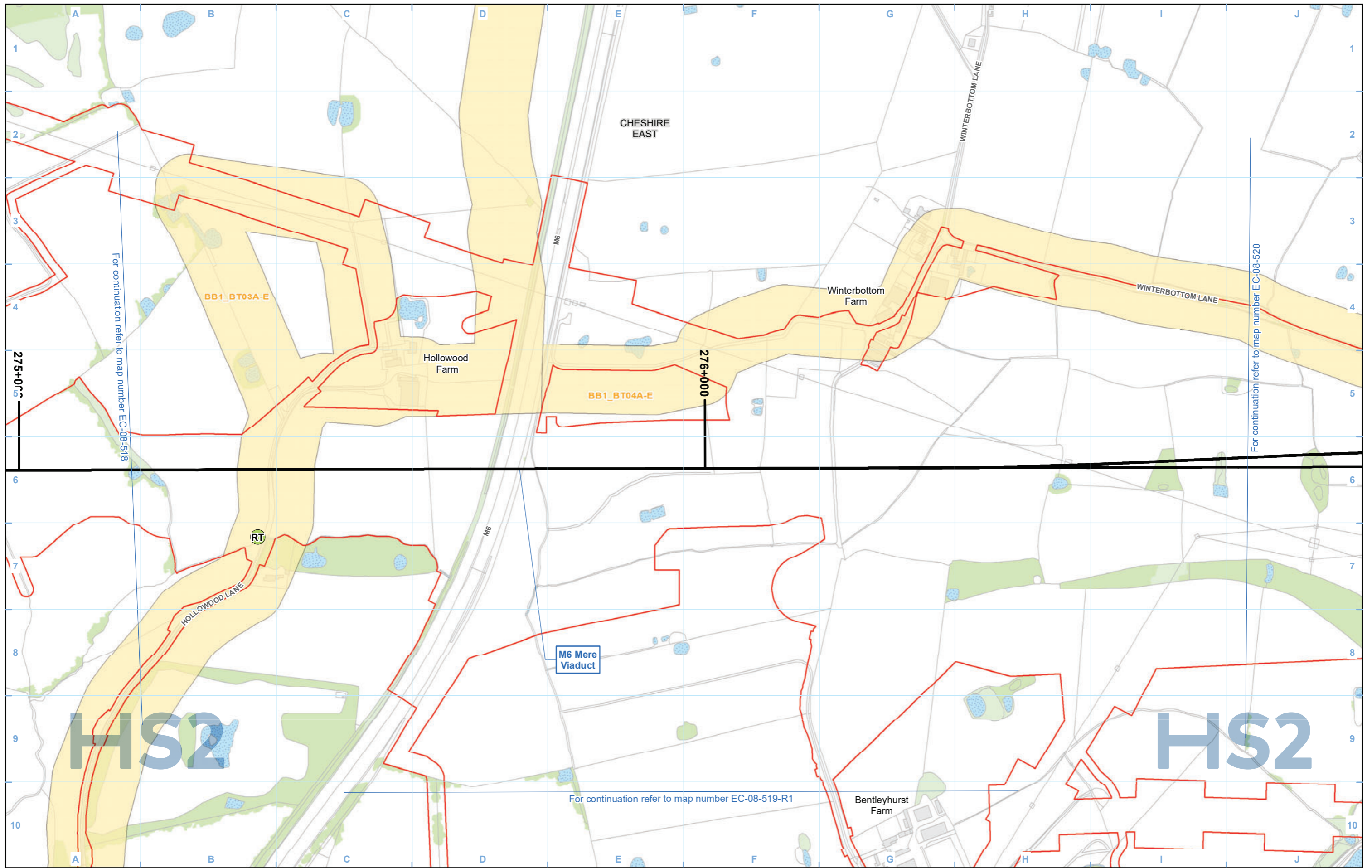
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003240-P01

Date: 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-519

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseath

HS2

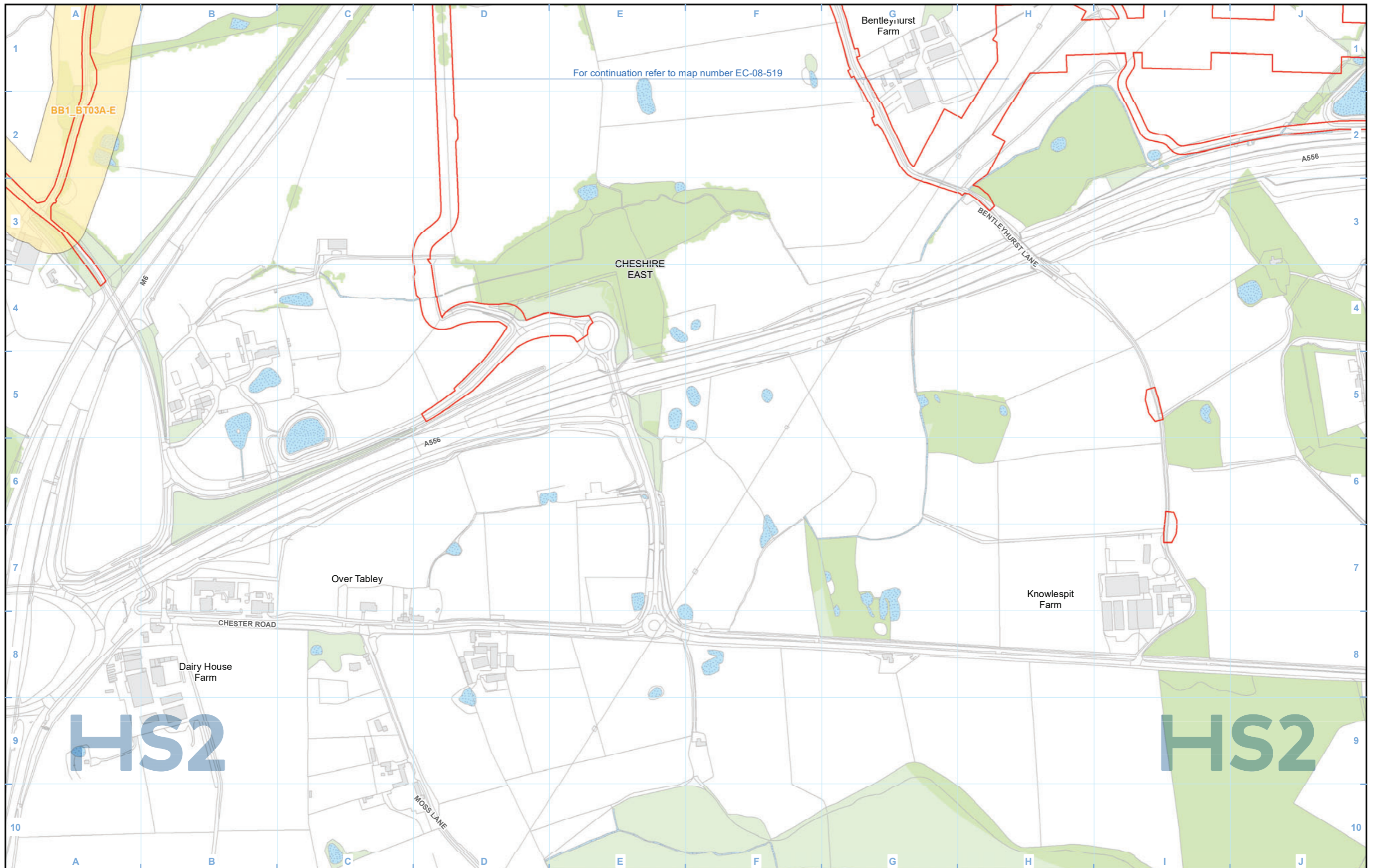
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001178-P01

Date: 12/08/21



For continuation refer to map number EC-08-519

Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 	<ul style="list-style-type: none"> Breeding birds - survey extent
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For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-519-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

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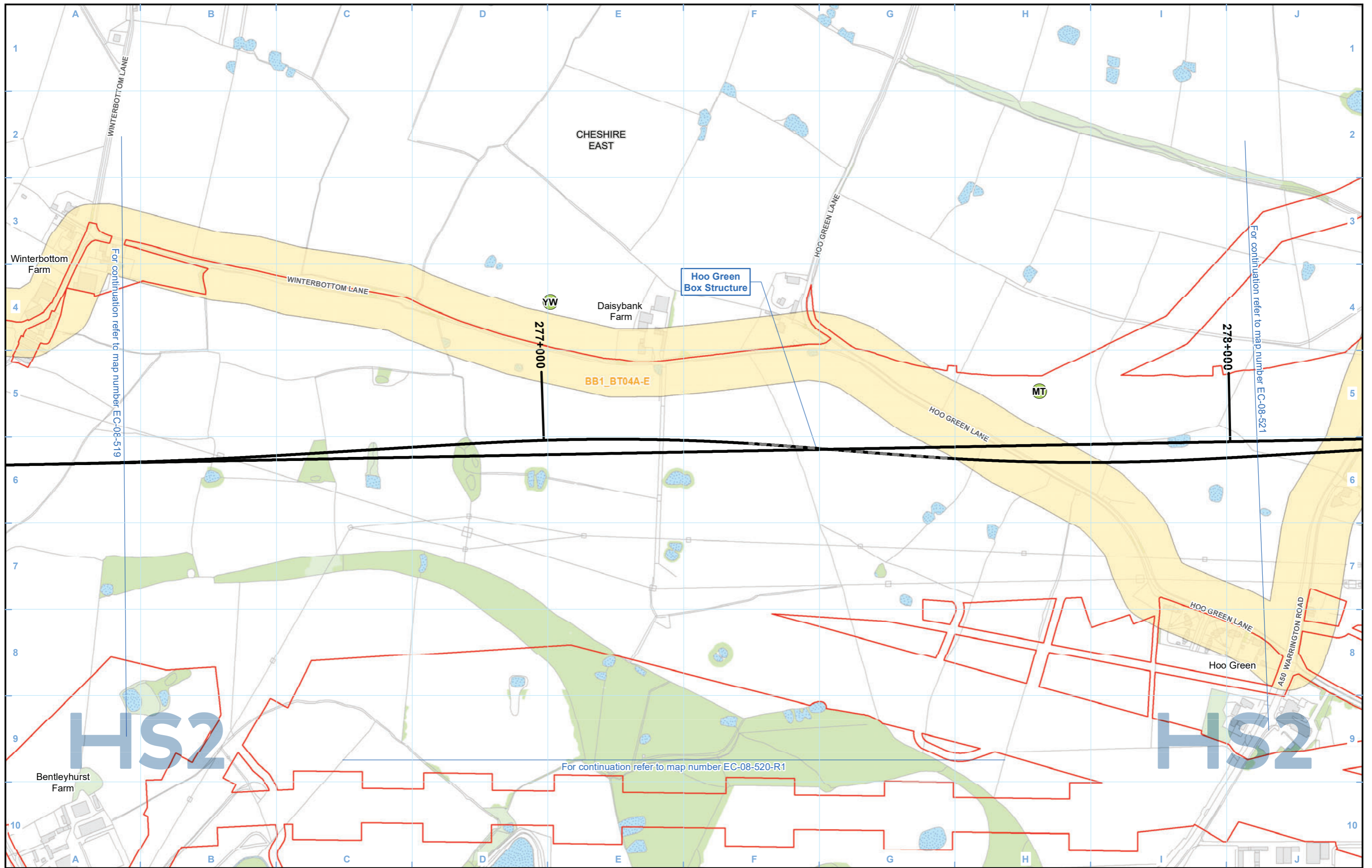
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Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-520**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

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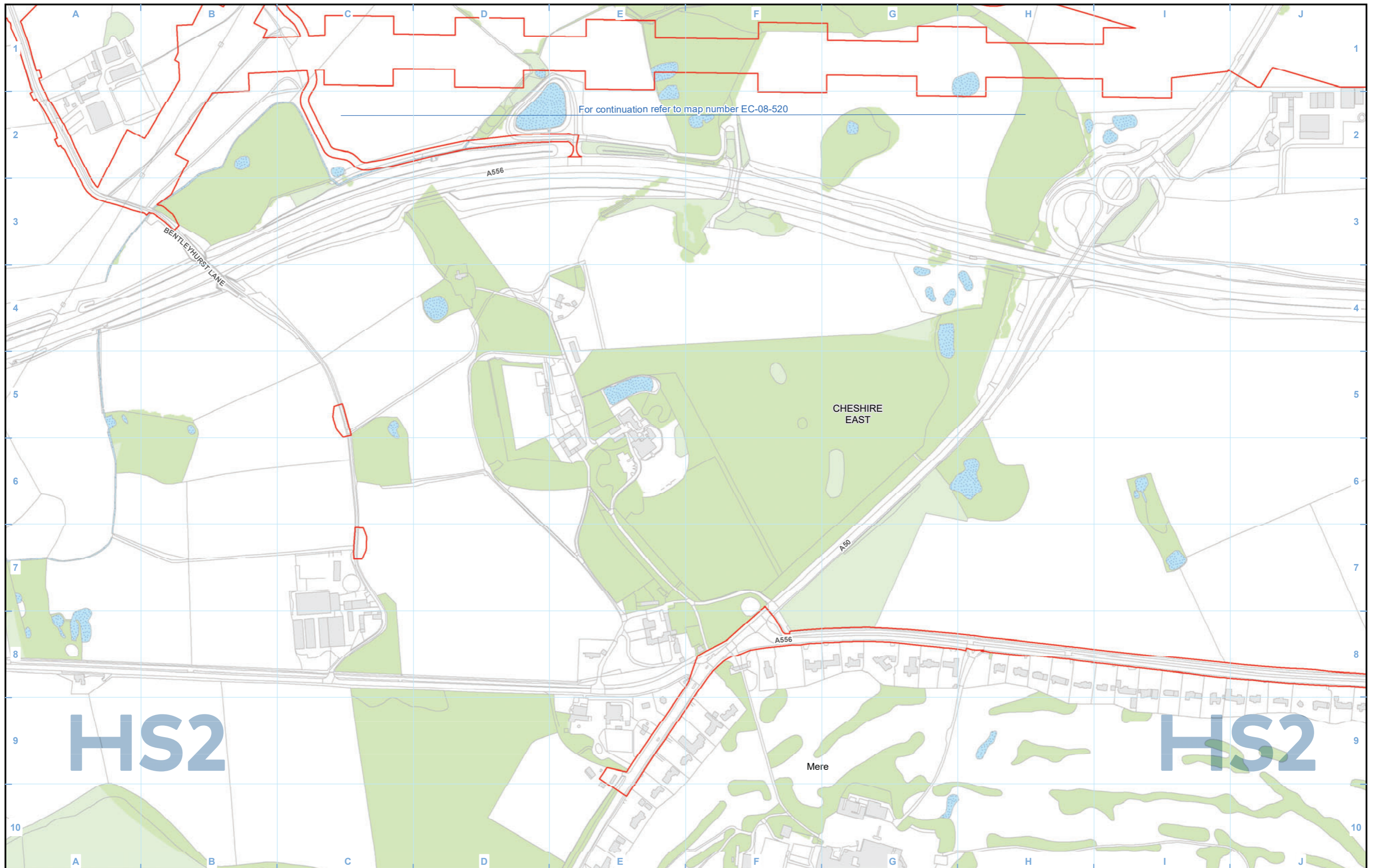
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0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-520-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

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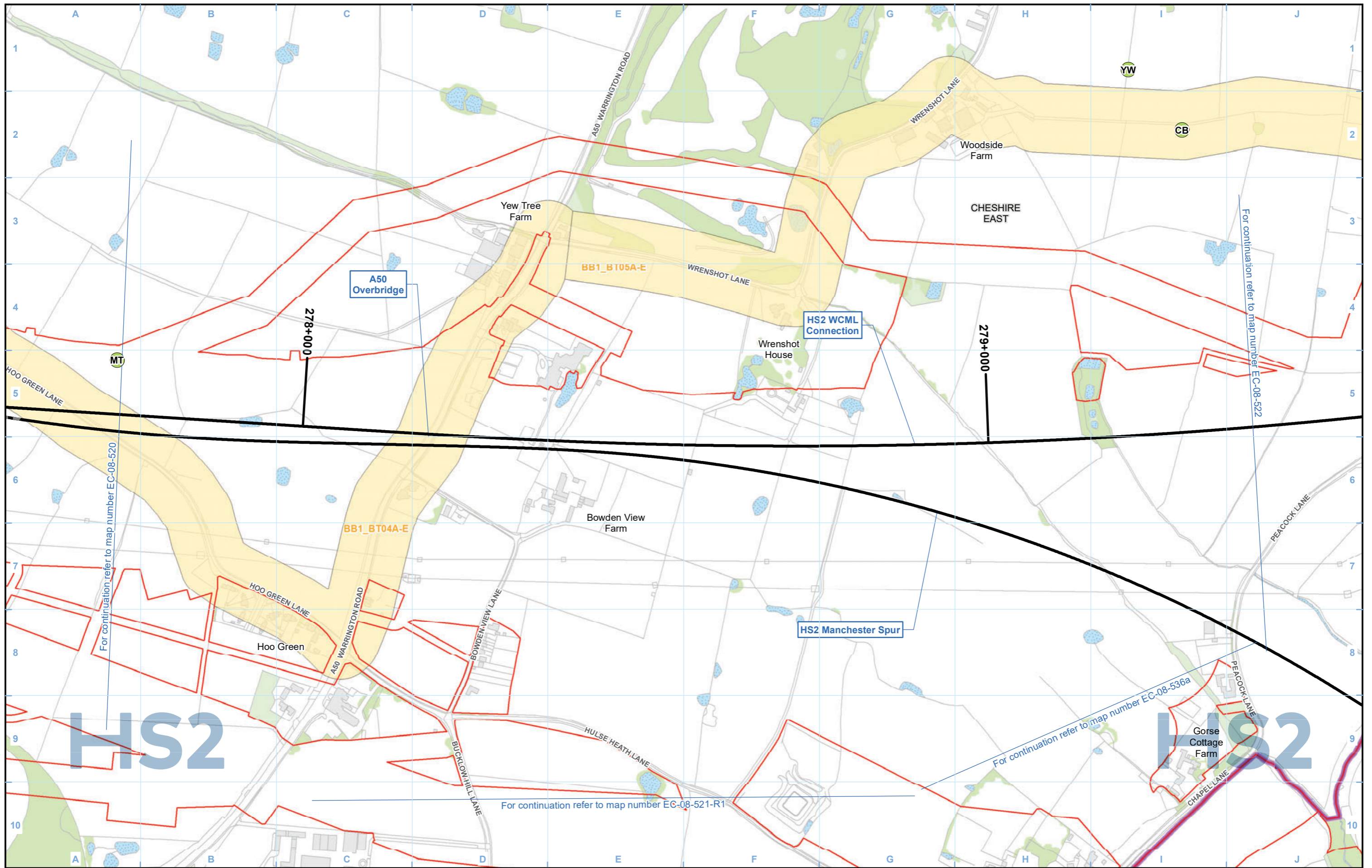
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003242-P01

Date: 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-521

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseheath

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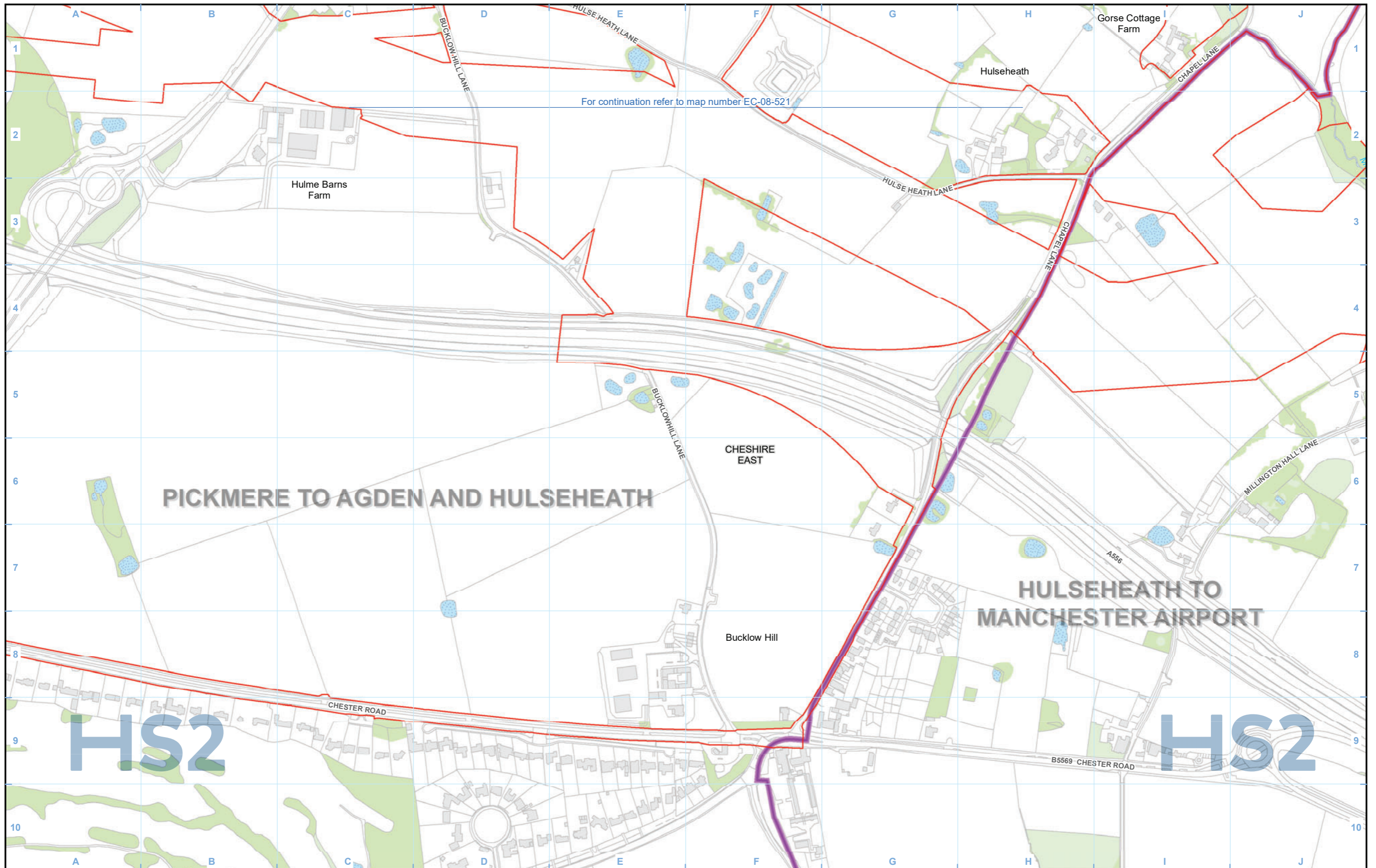
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Scale at A3: 1:5,000

0 50 100 150 200 Metres



For continuation refer to map number EC-08-521

PICKMERE TO AGDEN AND HULSEHEATH

HULSEHEATH TO MANCHESTER AIRPORT

Hs2

Hs2

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-521-R1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseheath

Hs2

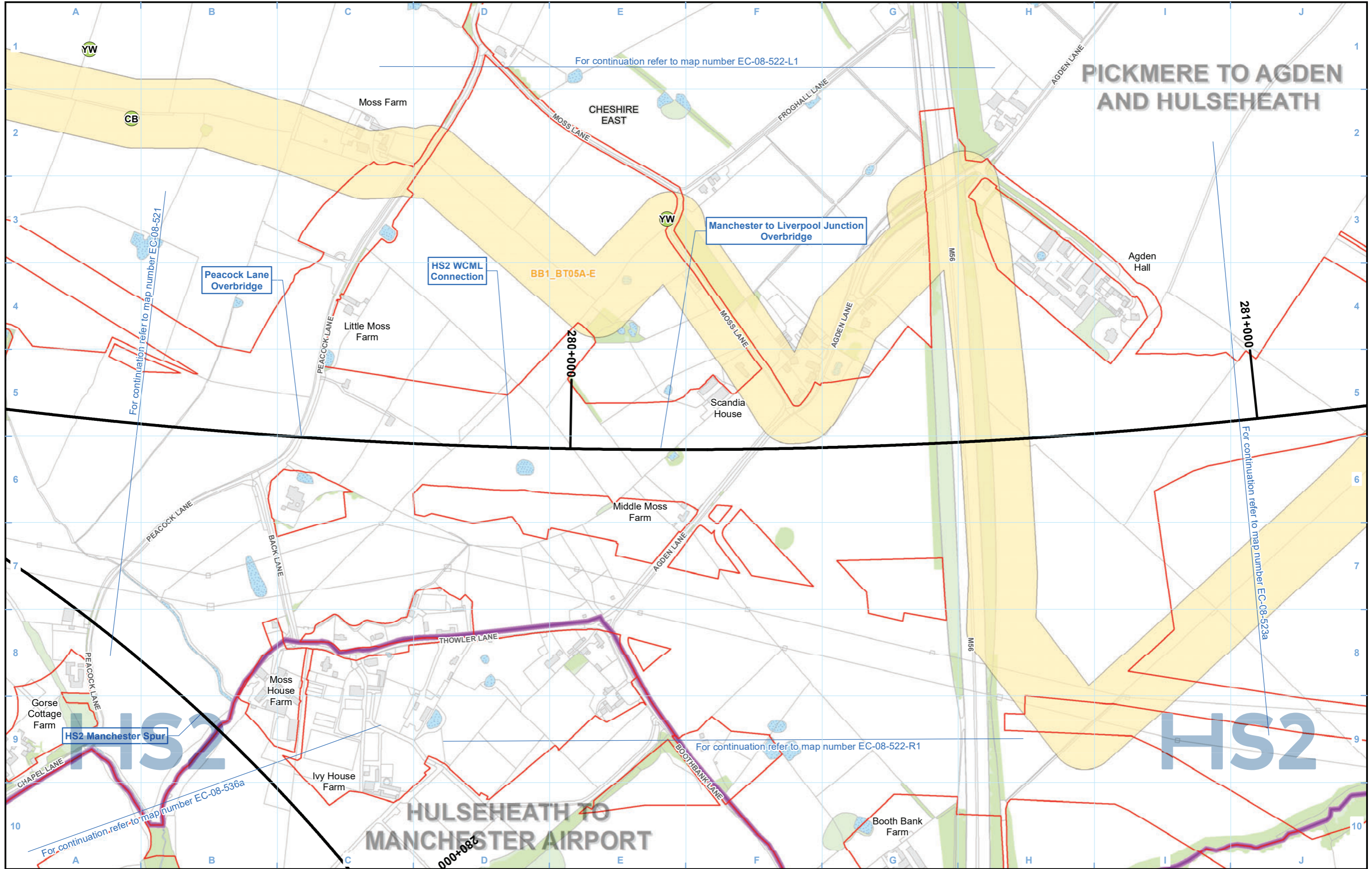
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Date: 12/08/21



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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: **EC-08-522**

Map Name: **Breeding Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

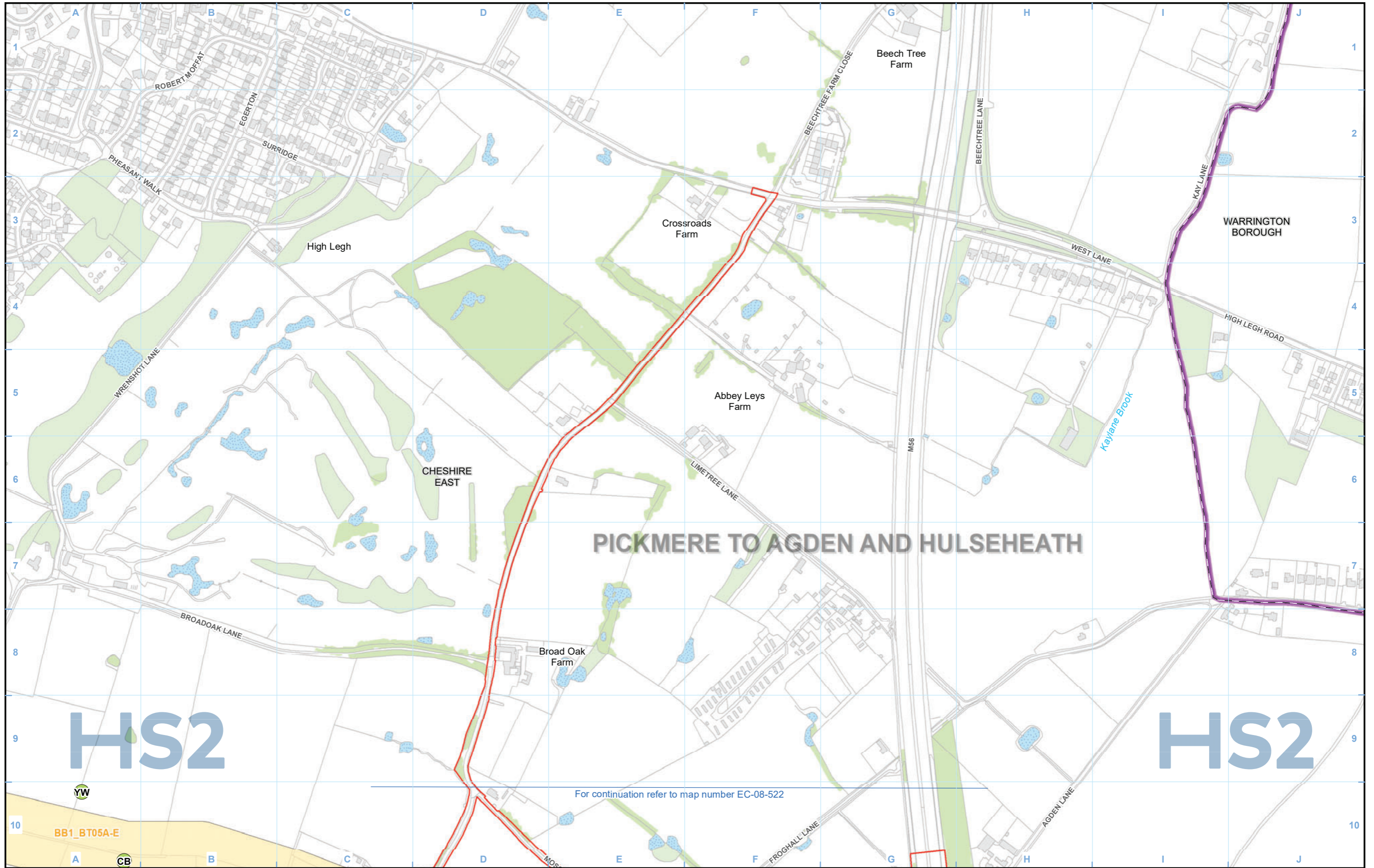
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Date: 12/08/21

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PICKMERE TO AGDEN AND HULSEHEATH

For continuation refer to map number EC-08-522

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-522-L1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseheath

HS2

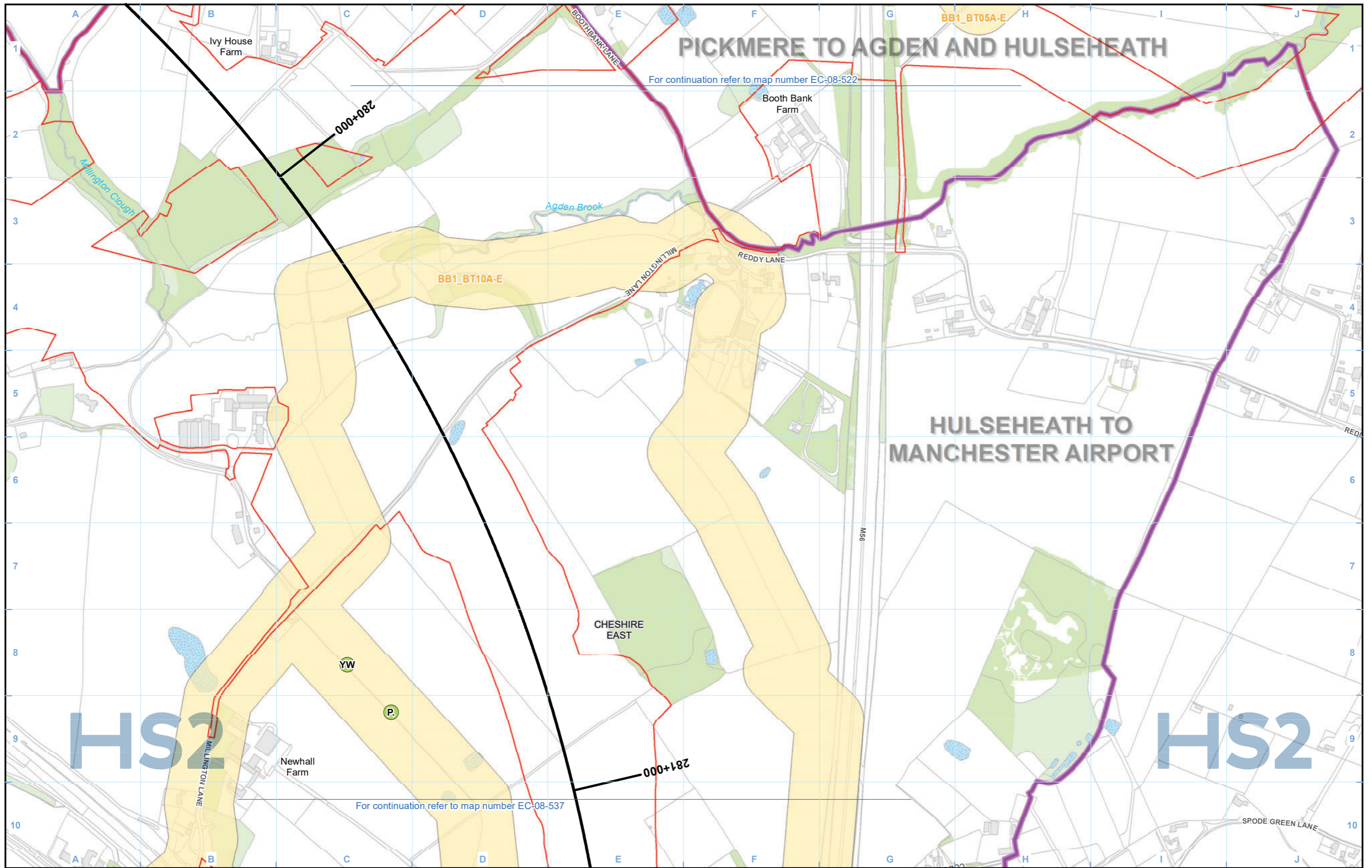
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-522-R1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseheath

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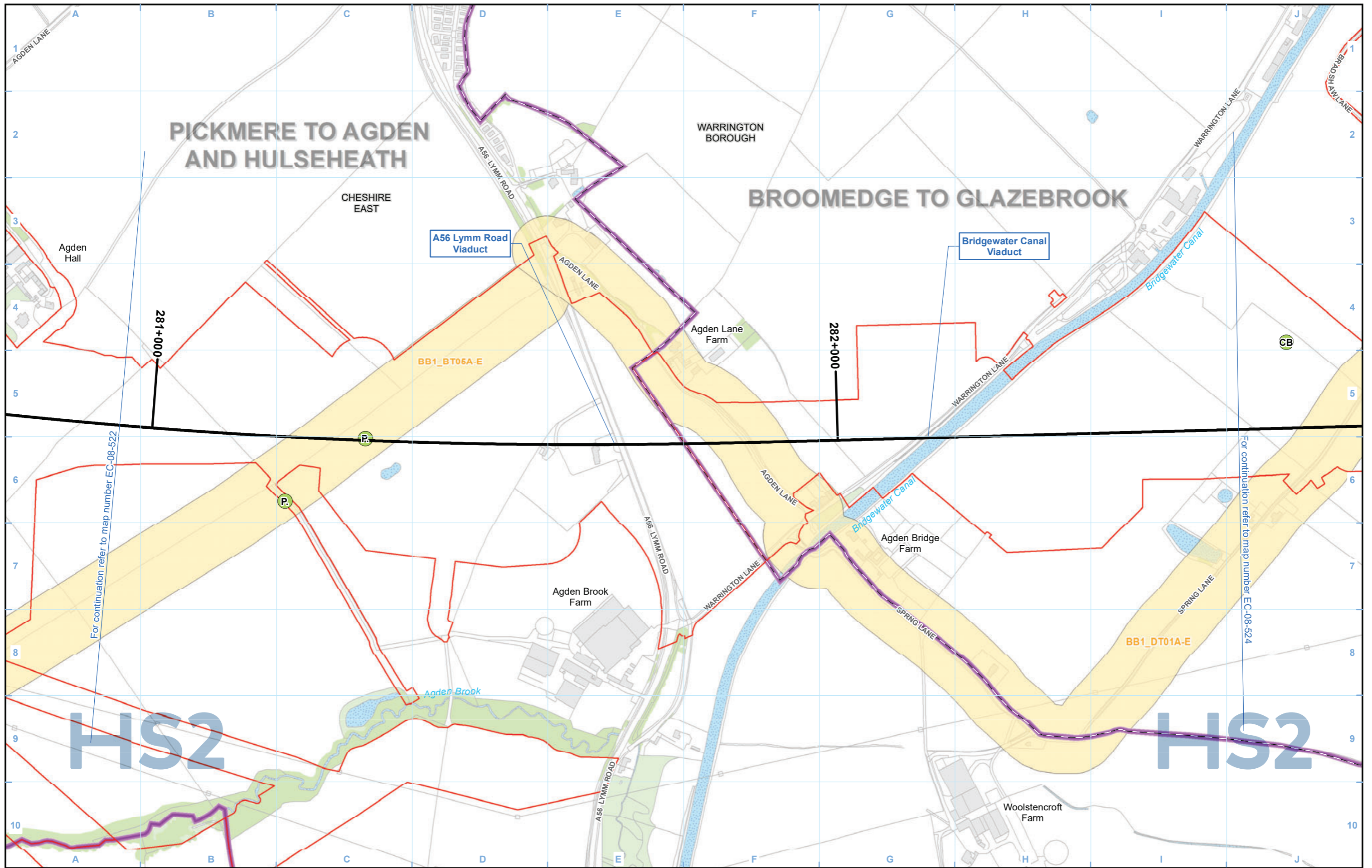
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0 50 100 150 200 Metres



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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-523a

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseheath

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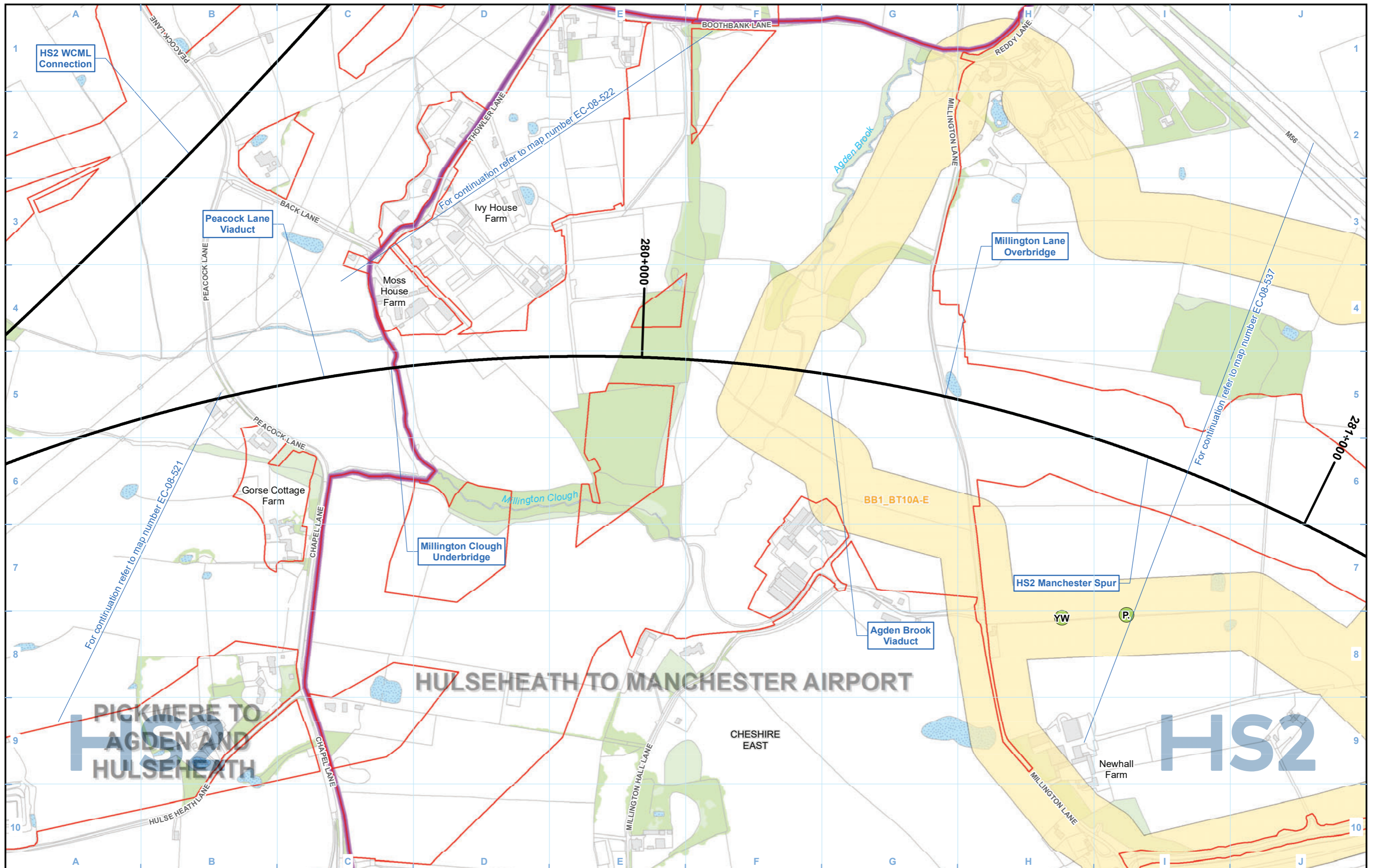
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Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-536a

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseheath

HS2

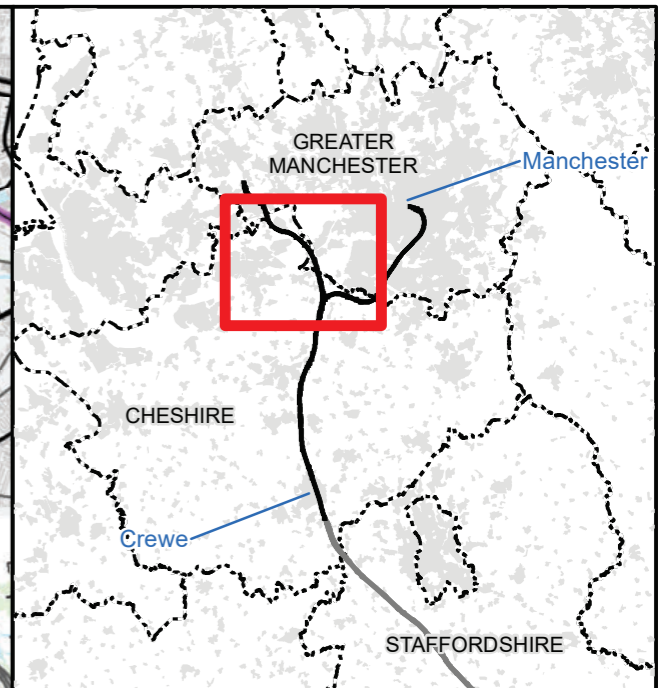
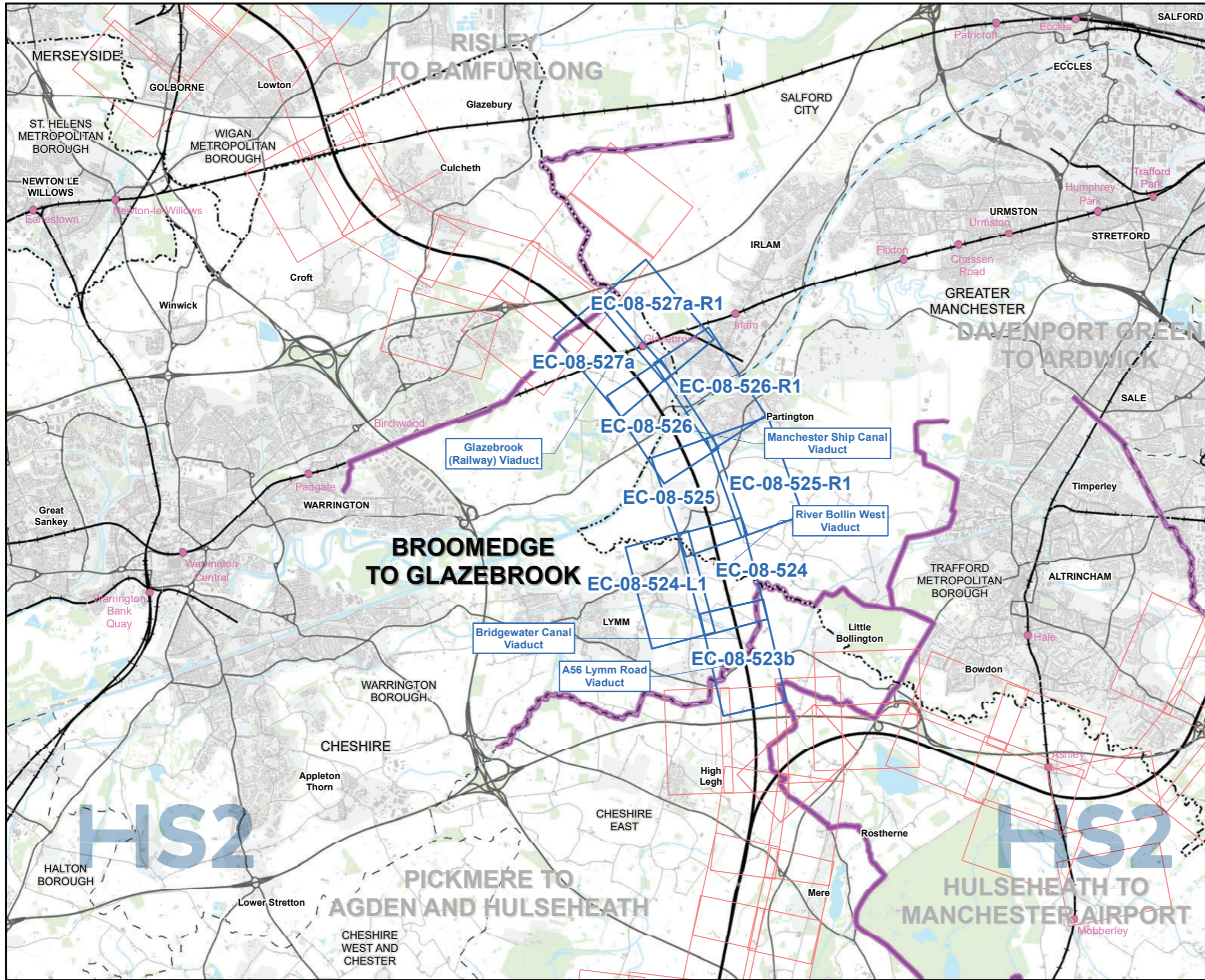
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Map Series Information:

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.

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

Map Number: EC-08-INDEX-MA04

Map Name: Index Map of: Breeding Birds – Protected and Notable Species

Community Area MA04: Broomedge to Glazebrook

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Date: 12/08/21

BTO SPECIES CODES

AC	Arctic Skua	D.	Dunnoek	K.	Kestrel	RN	Raven	SG	Starling
AE	Arctic Tern	EG	Egyptian Goose	KF	Kingfisher	RA	Razorbill	SD	Stock Dove
AV	Avocet	E.	Eider	KI	Kittiwake	RG	Red Grouse	SC	Stonechat
BO	Barn Owl	FP	Feral Pigeon	KN	Knot	KT	Red Kite	TN	Stone-curlew
BY	Barnacle Goose	ZL	Feral/hybrid goose	LM	Lady Amherst's Pheasant	ED	Red-backed Shrike	TM	Storm Petrel
BA	Bar-tailed Godwit	ZF	Feral/hybrid mallard type	LA	Lapland Bunting	RM	Red-breasted Merganser	SL	Swallow
BR	Bearded Tit	FF	Fieldfare	L.	Lapwing	RQ	Red-crested Pochard	SI	Swift
BS	Berwick's Swan	FC	Firecrest	TL	Leach's Petrel	FV	Red-footed Falcon	TO	Tawny Owl
BI	Bittern	F.	Fulmar	LB	Lesser Black-backed Gull	RL	Red-legged Partridge	T.	Teal
BK	Black Grouse	GA	Gadwall	LS	Lesser Spotted Woodpecker	NK	Red-necked Phalarope	TK	Temminck's Stint
TY	Black Guillemot	GX	Gannet	LW	Lesser Whitethroat	LR	Redpoll (Lesser)	TP	Tree Pipit
BX	Black Redstart	GW	Garden Warbler	LI	Linnet	RK	Redshank	TS	Tree Sparrow
BJ	Black Tern	GY	Garganey	ET	Little Egret	RT	Redstart	TC	Treecreeper
B.	Blackbird	GC	Goldcrest	LG	Little Grebe	RH	Red-throated Diver	TU	Tufted Duck
BC	Blackcap	EA	Golden Eagle	LU	Little Gull	RE	Redwing	TT	Turnstone
BH	Black-headed Gull	OL	Golden Oriole	LO	Little Owl	RB	Reed Bunting	TD	Turtle Dove
BN	Black-necked Grebe	GF	Golden Pheasant	LP	Little Ringed Plover	RW	Reed Warbler	TW	Twite
BW	Black-tailed Godwit	GP	Golden Plover	AF	Little Tern	RZ	Ring Ouzel	WA	Water Rail
BV	Black-throated Diver	GN	Goldeneye	LE	Long-eared Owl	RP	Ringed Plover	W.	Wheatear
BT	Blue Tit	GO	Goldfinch	LT	Long-tailed Tit	RI	Ring-necked Parakeet	WM	Whimbrel
BU	Bluethroat	GD	Goosander	MG	Magpie	R.	Robin	WC	Whinchat
BL	Brambling	GI	Goshawk	MA	Mallard	DV	Rock Dove (not feral)	WG	White-fronted Goose
BG	Brent Goose	GH	Grasshopper Warbler	MN	Mandarin Duck	RC	Rock Pipit	WH	Whitethroat
BF	Bullfinch	GB	Great Black-backed Gull	MX	Manx Shearwater	RO	Rook	WS	Whooper Swan
BZ	Buzzard	GG	Great Crested Grebe	MR	Marsh Harrier	RS	Roseate Tern	WN	Wigeon
CG	Canada Goose	ND	Great Northern Diver	MT	Marsh Tit	RY	Ruddy Duck	WT	Willow Tit
CP	Capercaillie	NX	Great Skua	MW	Marsh Warbler	RU	Ruff	WW	Willow Warbler
C.	Carrion Crow	GS	Great Spotted Woodpecker	MP	Meadow Pipit	SM	Sand Martin	OD	Wood Sandpiper
CW	Cetti's Warbler	GT	Great Tit	MU	Mediterranean Gull	SS	Sanderling	WO	Wood Warbler
CH	Chaffinch	GE	Green Sandpiper	ML	Merlin	TE	Sandwich Tern	WK	Woodcock
CC	Chiffchaff	G.	Green Woodpecker	M.	Mistle Thrush	VI	Savi's Warbler	WL	Woodlark
CF	Chough	GR	Greenfinch	MO	Montagu's Harrier	SQ	Scarlet Rosefinch	WP	Woodpigeon
CL	Cirl Bunting	GK	Greenshank	MH	Moorhen	SP	Scaup	WR	Wren
CT	Coal Tit	H.	Grey Heron	MS	Mute Swan	CY	Scottish Crossbill	WY	Wryneck
CD	Collared Dove	P.	Grey Partridge	N.	Nightingale	SW	Sedge Warbler	YW	Yellow Wagtail
CM	Common Gull	GV	Grey Plover	NJ	Nightjar	NS	Serin	Y.	Yellowhammer
CS	Common Sandpiper	GL	Grey Wagtail	NH	Nuthatch	SA	Shag		
CX	Common Scoter	GJ	Greylag Goose	OP	Osprey	SU	Shelduck		
CN	Common Tern	GU	Guillemot	OC	Oystercatcher	SX	Shorelark		
CO	Coot	FW	Guineafowl (Helmeted)	PX	Peafowl/Peacock	SE	Short-eared Owl		
CA	Cormorant	HF	Hawfinch	PE	Peregrine	SV	Shoveler		
CB	Corn Bunting	HH	Hen Harrier	PH	Pheasant	SK	Siskin		
CE	Corncrake	HG	Herring Gull	PF	Pied Flycatcher	S.	Skylark		
CI	Crested Tit	HY	Hobby	PW	Pied Wagtail	SZ	Slavonian Grebe		
CR	Crossbill (Common)	HZ	Honey Buzzard	PG	Pink-footed Goose	SN	Snipe		
CK	Cuckoo	HC	Hooded Crow	PT	Pintail	SB	Snow Bunting		
CU	Curlew	HP	Hoopoe	PO	Pochard	ST	Song Thrush		
DW	Dartford Warbler	HM	House Martin	PM	Ptarmigan	SH	Sparrowhawk		
DI	Dipper	HS	House Sparrow	PU	Puffin	AK	Spotted Crake		
DO	Dotterel	JD	Jackdaw	PS	Purple Sandpiper	SF	Spotted Flycatcher		
DN	Dunlin	J.	Jay	Q.	Quail	DR	Spotted Redshank		

Map Number	EC-08 Legend
Map Name	EC-08 BTO Bird Species Legend

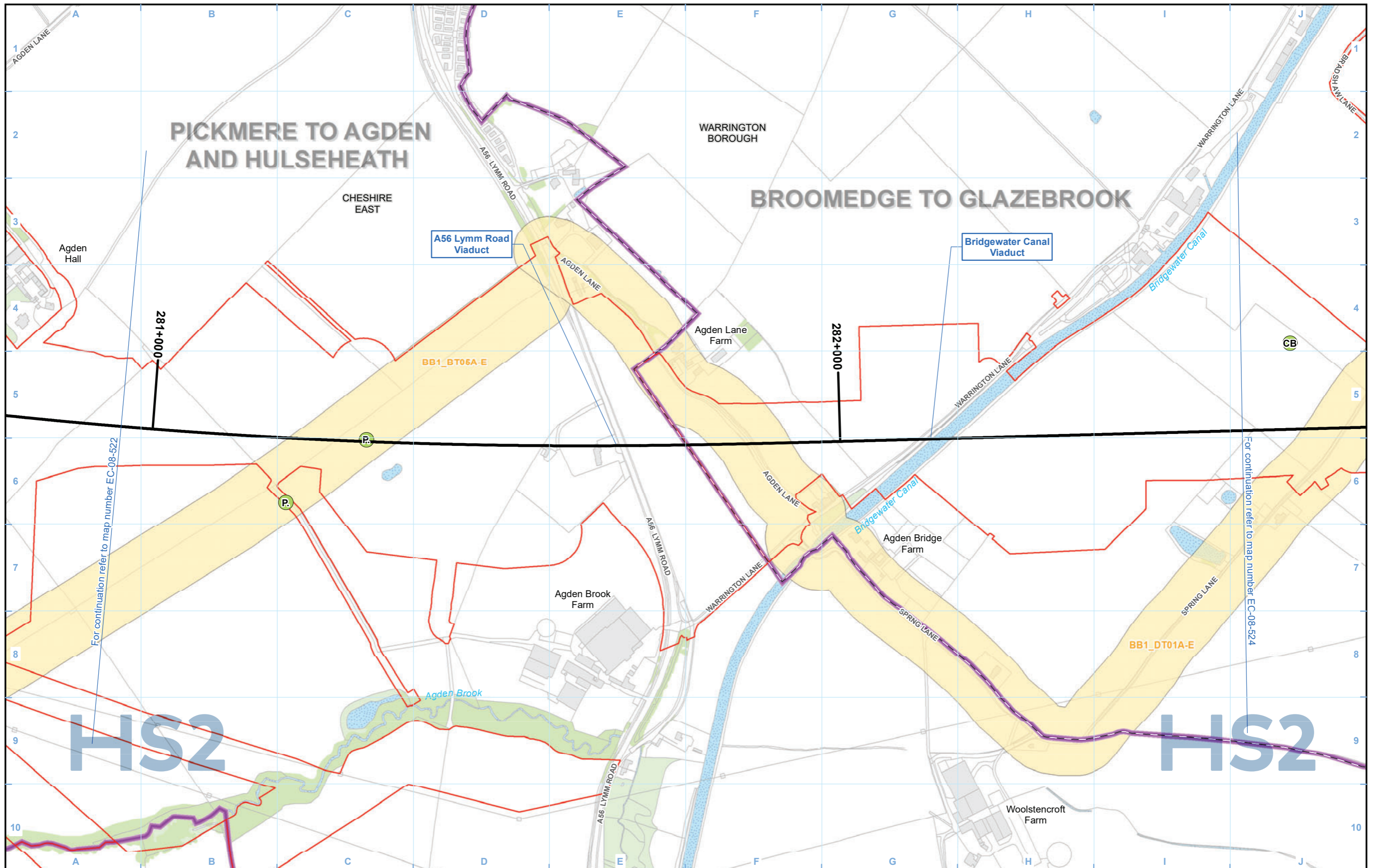
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-523b

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA04: Broomedge to Glazebrook

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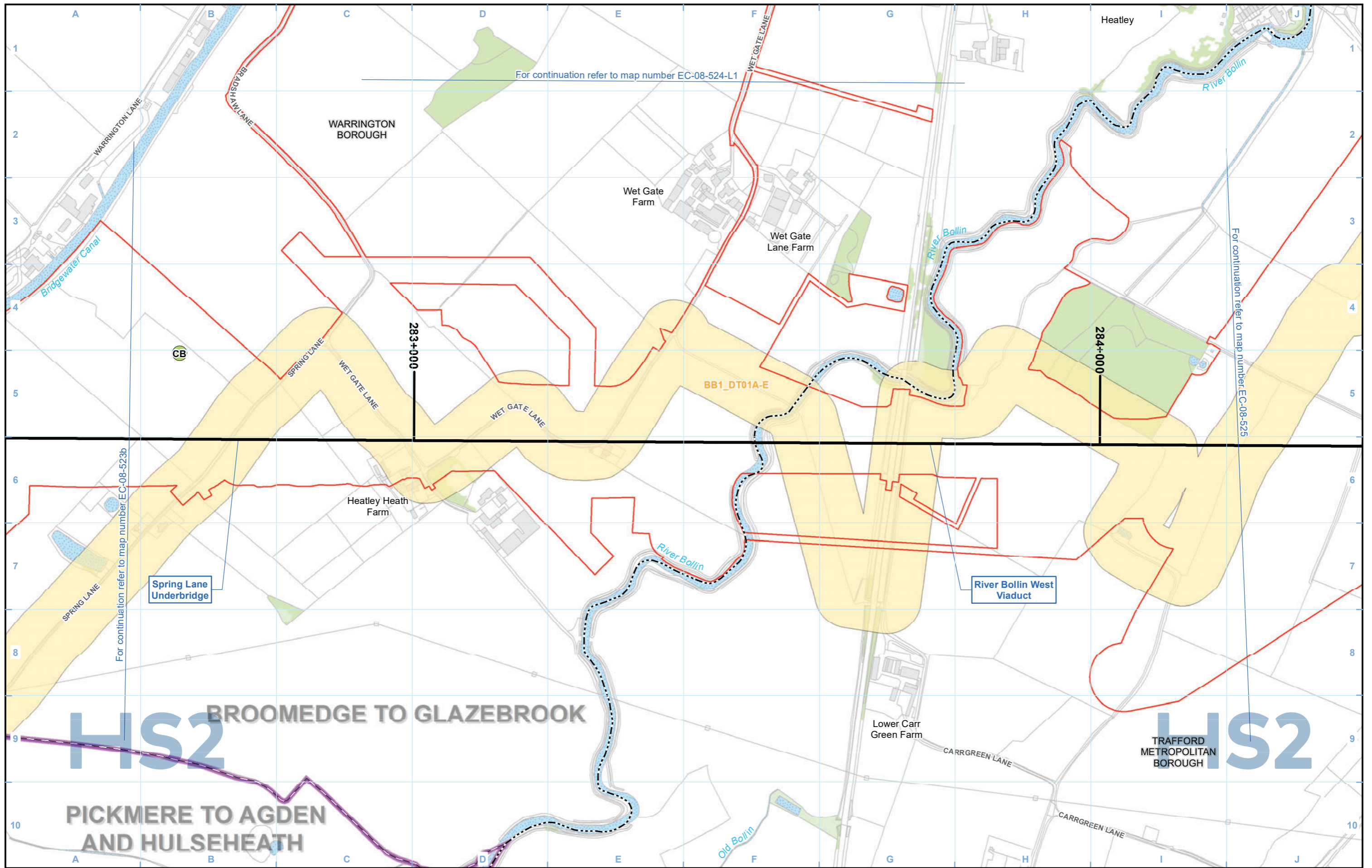
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Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-524

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA04: Broomedge to Glazebrook

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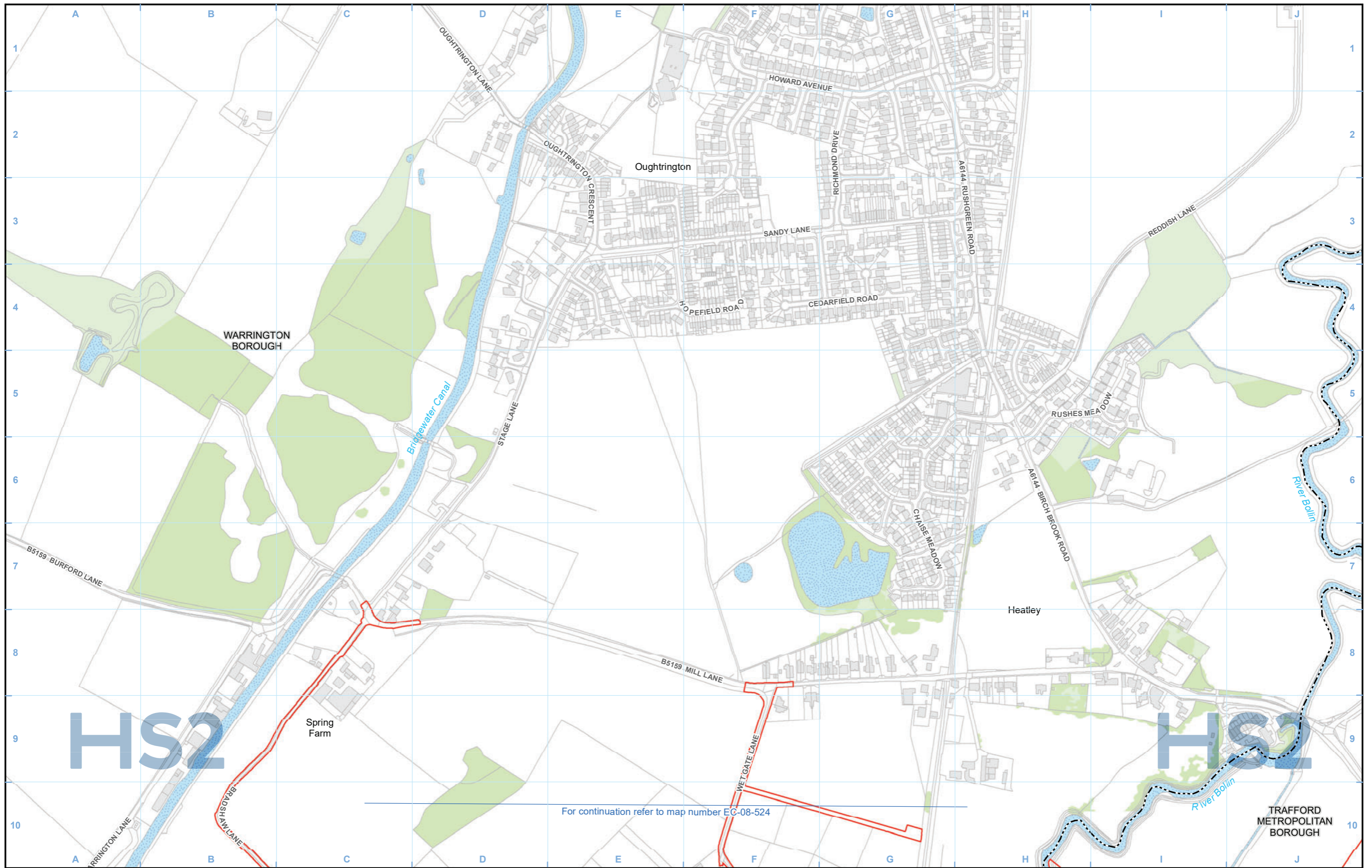
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Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



For continuation refer to map number EC-08-524

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-524-L1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA04: Broomedje to Glazebrook

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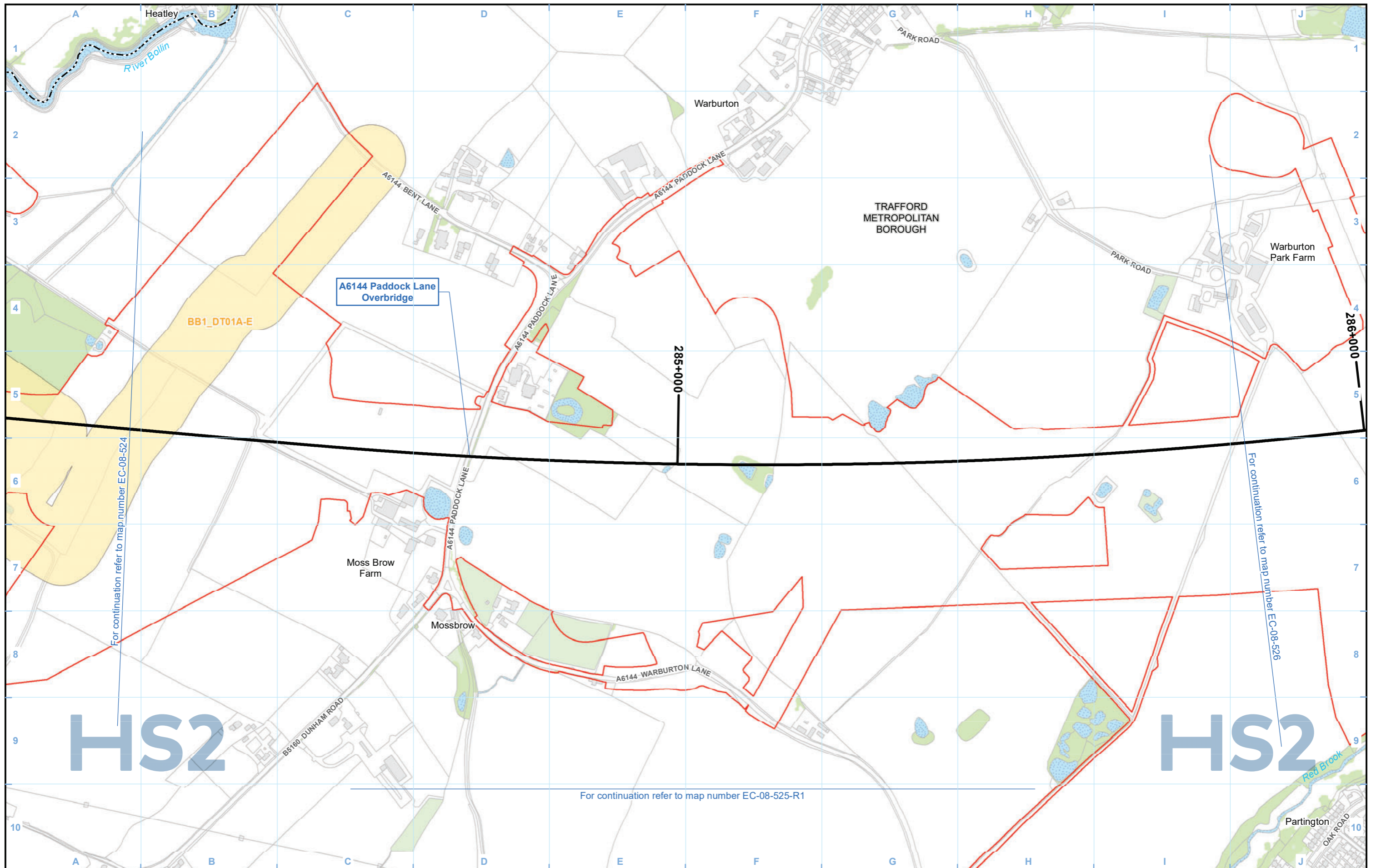
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Date: 12/08/21

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-525**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA04:
Broomedged to Glazebrook

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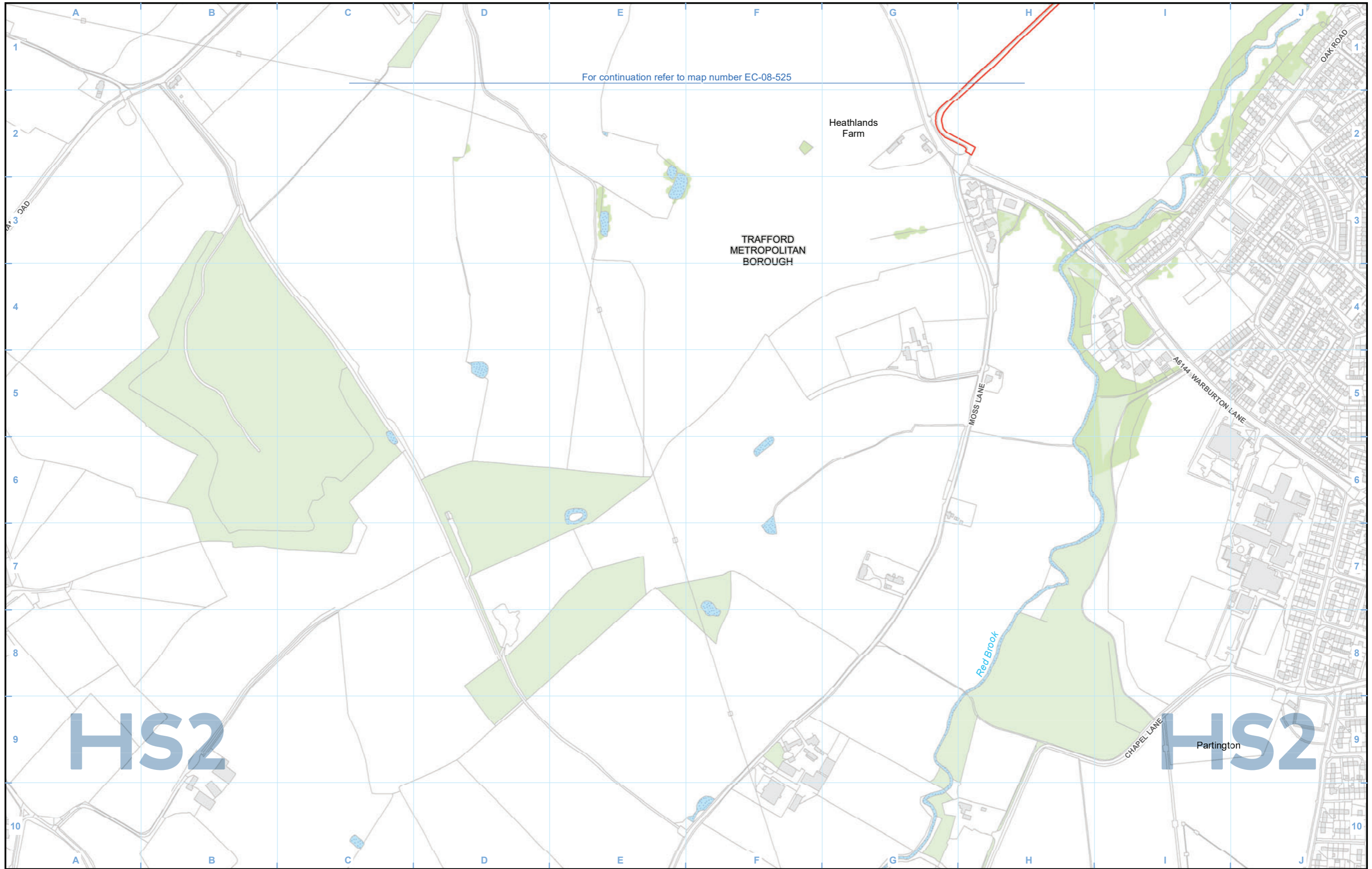
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Date: 12/08/21

Scale at A3: 1:5,000

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-525-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA04:
Broomedged to Glazebrook

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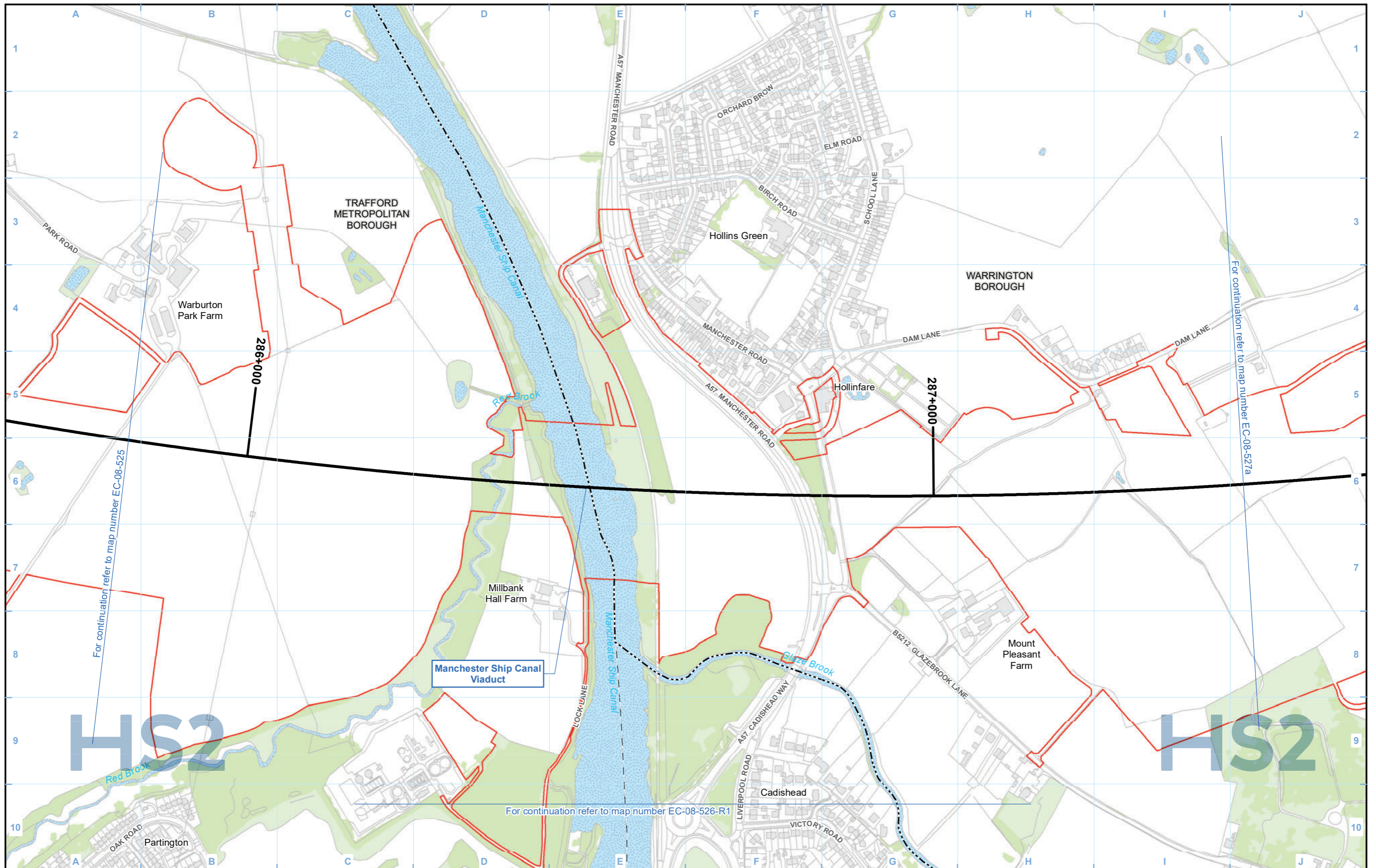
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Date: 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-526**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA04:
Broomedged to Glazebrook

HS2

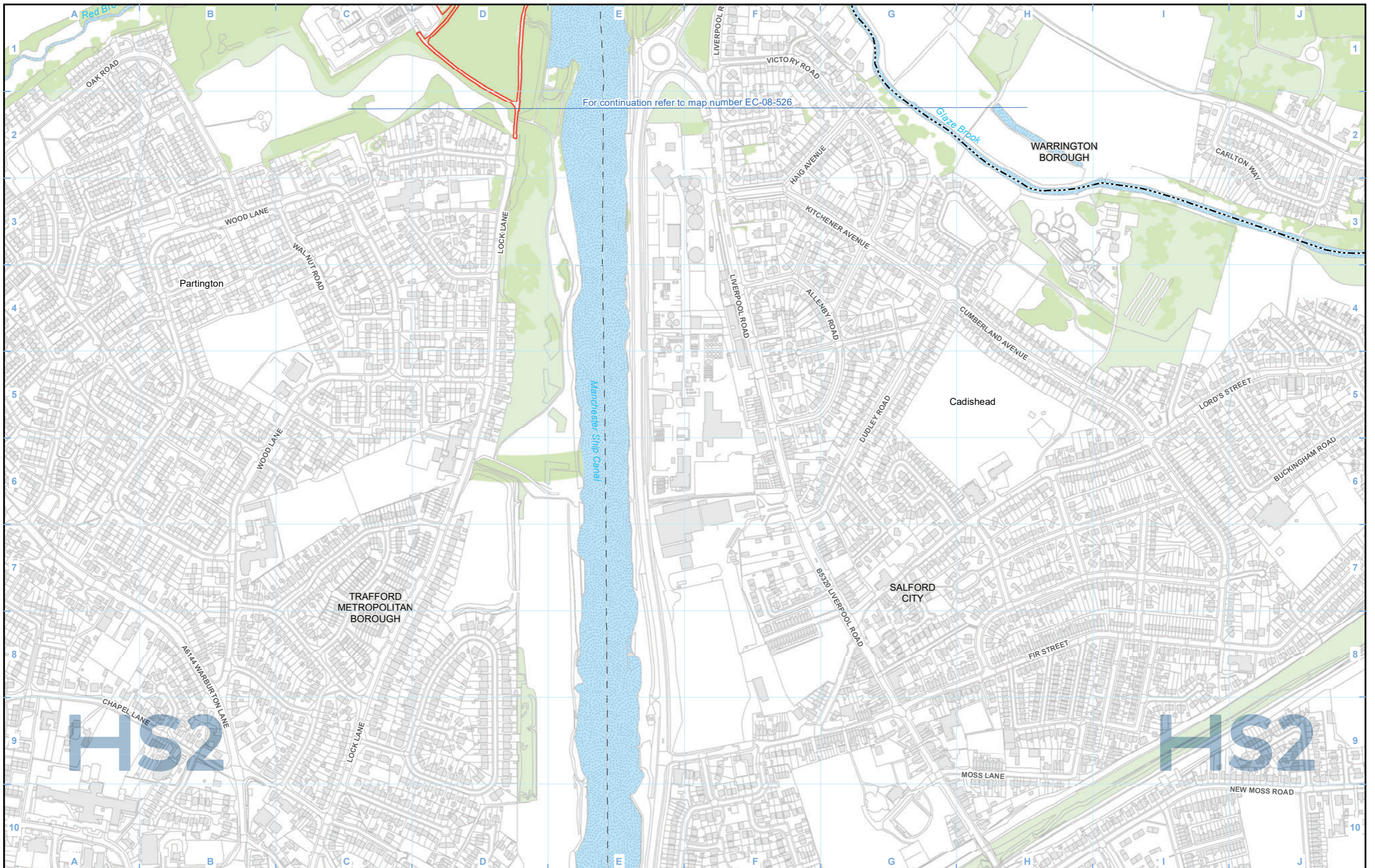
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-526-R1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA04: Broomedged to Glazebrook

HS2

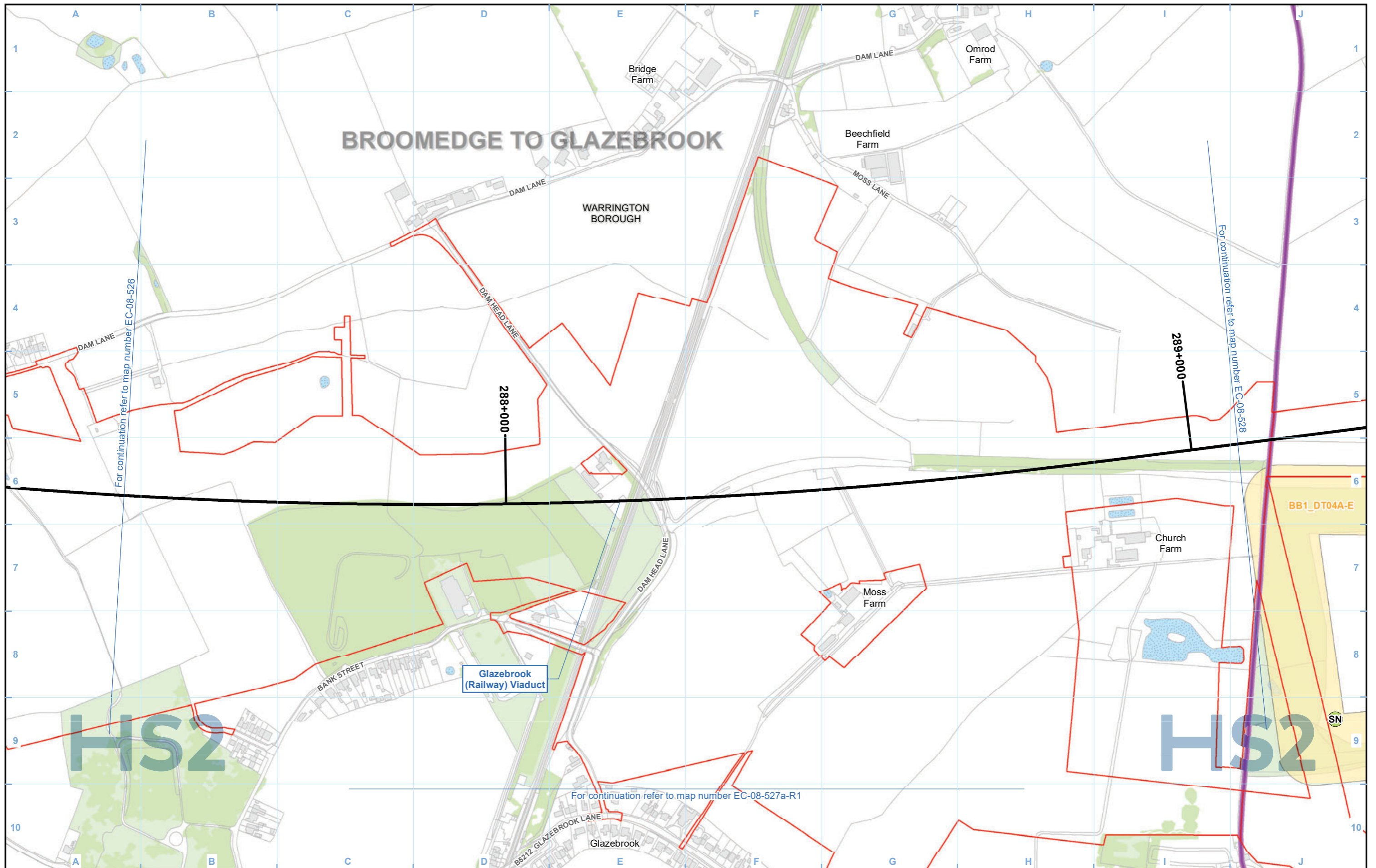
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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Birds of Conservation Concern
	Other notable species relevant to assessment
	Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number	EC-08-527a
Map Name	Breeding Birds – Protected and Notable Species
Community Area MA04: Broomedge to Glazebrook	

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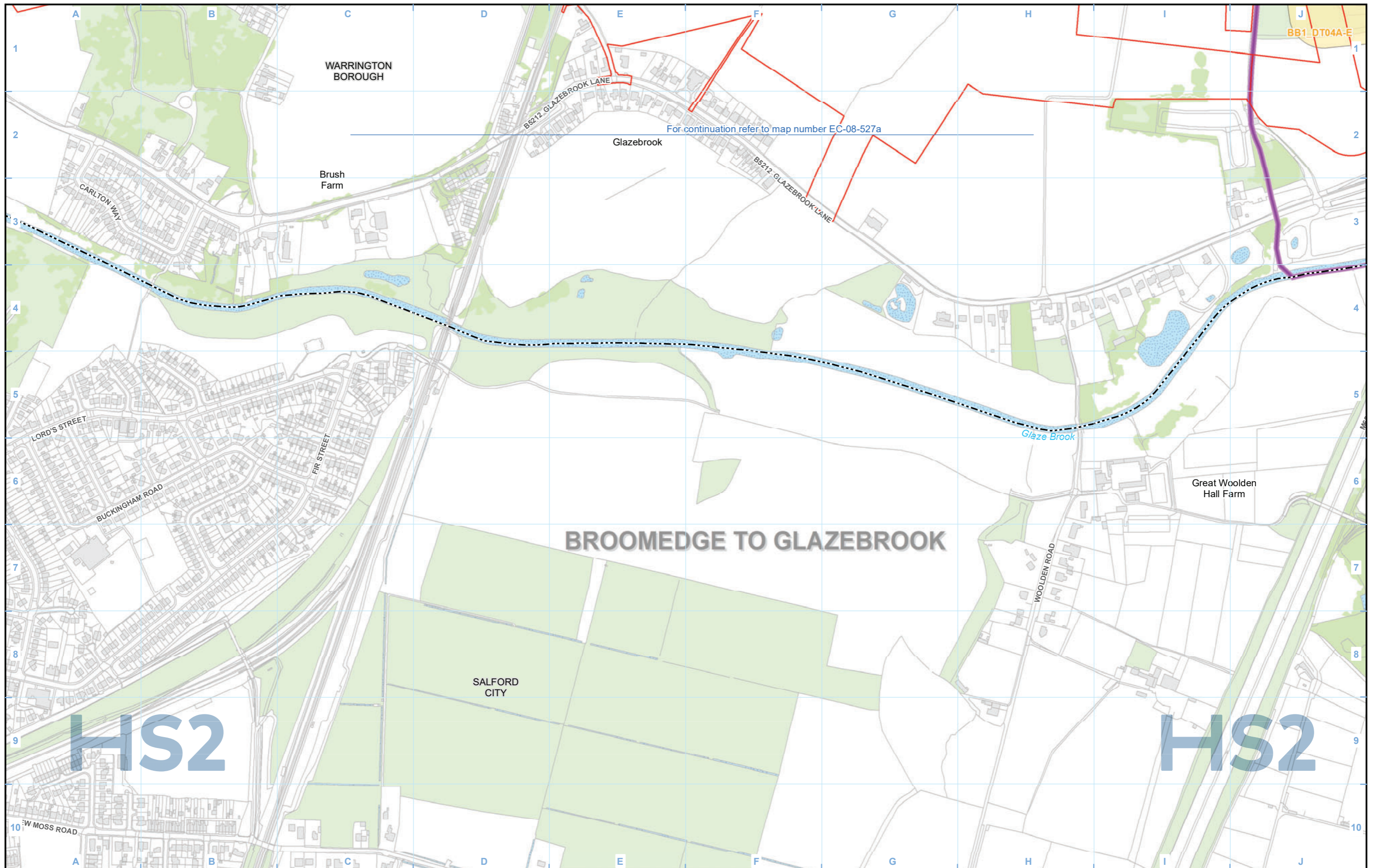
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number EC-08-527a-R1

Map Name Breeding Birds – Protected and Notable Species

Community Area MA04: Broomedge to Glazebrook

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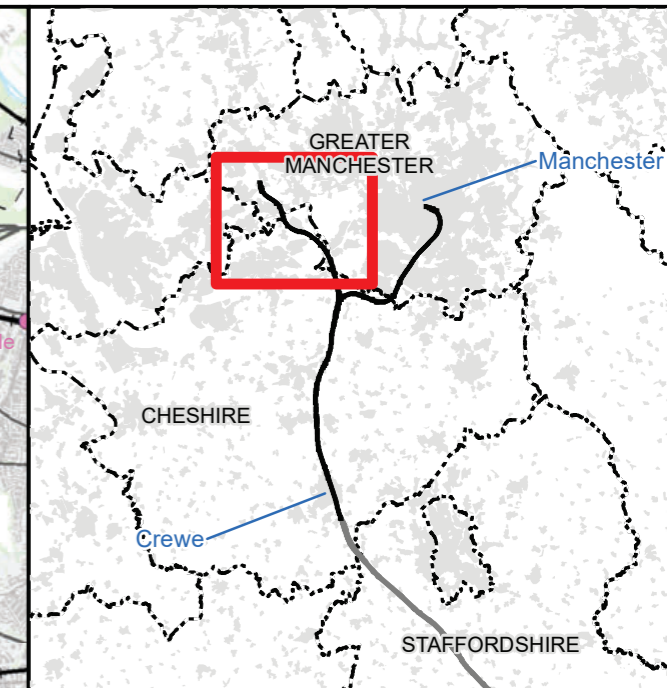
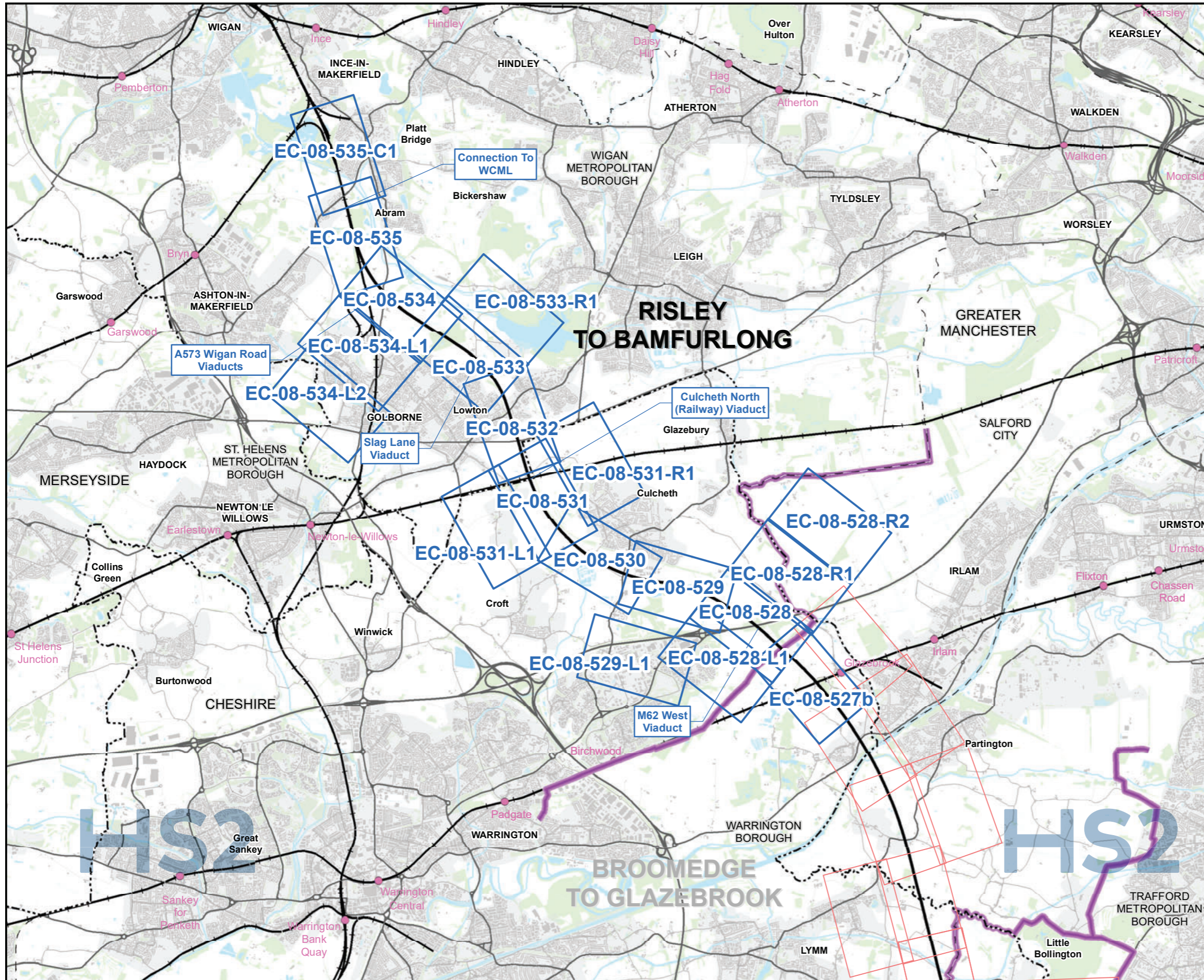
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Map Series Information:

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.

Main Map Legend

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

Map Number: EC-08-INDEX-MA05

Map Name: Index Map of: Breeding Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

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BTO SPECIES CODES

AC	Arctic Skua	D.	Dunnoek	K.	Kestrel	RN	Raven	SG	Starling
AE	Arctic Tern	EG	Egyptian Goose	KF	Kingfisher	RA	Razorbill	SD	Stock Dove
AV	Avocet	E.	Eider	KI	Kittiwake	RG	Red Grouse	SC	Stonechat
BO	Barn Owl	FP	Feral Pigeon	KN	Knot	KT	Red Kite	TN	Stone-curlew
BY	Barnacle Goose	ZL	Feral/hybrid goose	LM	Lady Amherst's Pheasant	ED	Red-backed Shrike	TM	Storm Petrel
BA	Bar-tailed Godwit	ZF	Feral/hybrid mallard type	LA	Lapland Bunting	RM	Red-breasted Merganser	SL	Swallow
BR	Bearded Tit	FF	Fieldfare	L.	Lapwing	RQ	Red-crested Pochard	SI	Swift
BS	Berwick's Swan	FC	Firecrest	TL	Leach's Petrel	FV	Red-footed Falcon	TO	Tawny Owl
BI	Bittern	F.	Fulmar	LB	Lesser Black-backed Gull	RL	Red-legged Partridge	T.	Teal
BK	Black Grouse	GA	Gadwall	LS	Lesser Spotted Woodpecker	NK	Red-necked Phalarope	TK	Temminck's Stint
TY	Black Guillemot	GX	Gannet	LW	Lesser Whitethroat	LR	Redpoll (Lesser)	TP	Tree Pipit
BX	Black Redstart	GW	Garden Warbler	LI	Linnet	RK	Redshank	TS	Tree Sparrow
BJ	Black Tern	GY	Garganey	ET	Little Egret	RT	Redstart	TC	Treecreeper
B.	Blackbird	GC	Goldcrest	LG	Little Grebe	RH	Red-throated Diver	TU	Tufted Duck
BC	Blackcap	EA	Golden Eagle	LU	Little Gull	RE	Redwing	TT	Turnstone
BH	Black-headed Gull	OL	Golden Oriole	LO	Little Owl	RB	Reed Bunting	TD	Turtle Dove
BN	Black-necked Grebe	GF	Golden Pheasant	LP	Little Ringed Plover	RW	Reed Warbler	TW	Twite
BW	Black-tailed Godwit	GP	Golden Plover	AF	Little Tern	RZ	Ring Ouzel	WA	Water Rail
BV	Black-throated Diver	GN	Goldeneye	LE	Long-eared Owl	RP	Ringed Plover	W.	Wheatear
BT	Blue Tit	GO	Goldfinch	LT	Long-tailed Tit	RI	Ring-necked Parakeet	WM	Whimbrel
BU	Bluethroat	GD	Goosander	MG	Magpie	R.	Robin	WC	Whinchat
BL	Brambling	GI	Goshawk	MA	Mallard	DV	Rock Dove (not feral)	WG	White-fronted Goose
BG	Brent Goose	GH	Grasshopper Warbler	MN	Mandarin Duck	RC	Rock Pipit	WH	Whitethroat
BF	Bullfinch	GB	Great Black-backed Gull	MX	Manx Shearwater	RO	Rook	WS	Whooper Swan
BZ	Buzzard	GG	Great Crested Grebe	MR	Marsh Harrier	RS	Roseate Tern	WN	Wigeon
CG	Canada Goose	ND	Great Northern Diver	MT	Marsh Tit	RY	Ruddy Duck	WT	Willow Tit
CP	Capercaillie	NX	Great Skua	MW	Marsh Warbler	RU	Ruff	WW	Willow Warbler
C.	Carrion Crow	GS	Great Spotted Woodpecker	MP	Meadow Pipit	SM	Sand Martin	OD	Wood Sandpiper
CW	Cetti's Warbler	GT	Great Tit	MU	Mediterranean Gull	SS	Sanderling	WO	Wood Warbler
CH	Chaffinch	GE	Green Sandpiper	ML	Merlin	TE	Sandwich Tern	WK	Woodcock
CC	Chiffchaff	G.	Green Woodpecker	M.	Mistle Thrush	VI	Savi's Warbler	WL	Woodlark
CF	Chough	GR	Greenfinch	MO	Montagu's Harrier	SQ	Scarlet Rosefinch	WP	Woodpigeon
CL	Cirl Bunting	GK	Greenshank	MH	Moorhen	SP	Scaup	WR	Wren
CT	Coal Tit	H.	Grey Heron	MS	Mute Swan	CY	Scottish Crossbill	WY	Wryneck
CD	Collared Dove	P.	Grey Partridge	N.	Nightingale	SW	Sedge Warbler	YW	Yellow Wagtail
CM	Common Gull	GV	Grey Plover	NJ	Nightjar	NS	Serin	Y.	Yellowhammer
CS	Common Sandpiper	GL	Grey Wagtail	NH	Nuthatch	SA	Shag		
CX	Common Scoter	GJ	Greylag Goose	OP	Osprey	SU	Shelduck		
CN	Common Tern	GU	Guillemot	OC	Oystercatcher	SX	Shorelark		
CO	Coot	FW	Guineafowl (Helmeted)	PX	Peafowl/Peacock	SE	Short-eared Owl		
CA	Cormorant	HF	Hawfinch	PE	Peregrine	SV	Shoveler		
CB	Corn Bunting	HH	Hen Harrier	PH	Pheasant	SK	Siskin		
CE	Corncrake	HG	Herring Gull	PF	Pied Flycatcher	S.	Skylark		
CI	Crested Tit	HY	Hobby	PW	Pied Wagtail	SZ	Slavonian Grebe		
CR	Crossbill (Common)	HZ	Honey Buzzard	PG	Pink-footed Goose	SN	Snipe		
CK	Cuckoo	HC	Hooded Crow	PT	Pintail	SB	Snow Bunting		
CU	Curlew	HP	Hoopoe	PO	Pochard	ST	Song Thrush		
DW	Dartford Warbler	HM	House Martin	PM	Ptarmigan	SH	Sparrowhawk		
DI	Dipper	HS	House Sparrow	PU	Puffin	AK	Spotted Crake		
DO	Dotterel	JD	Jackdaw	PS	Purple Sandpiper	SF	Spotted Flycatcher		
DN	Dunlin	J.	Jay	Q.	Quail	DR	Spotted Redshank		

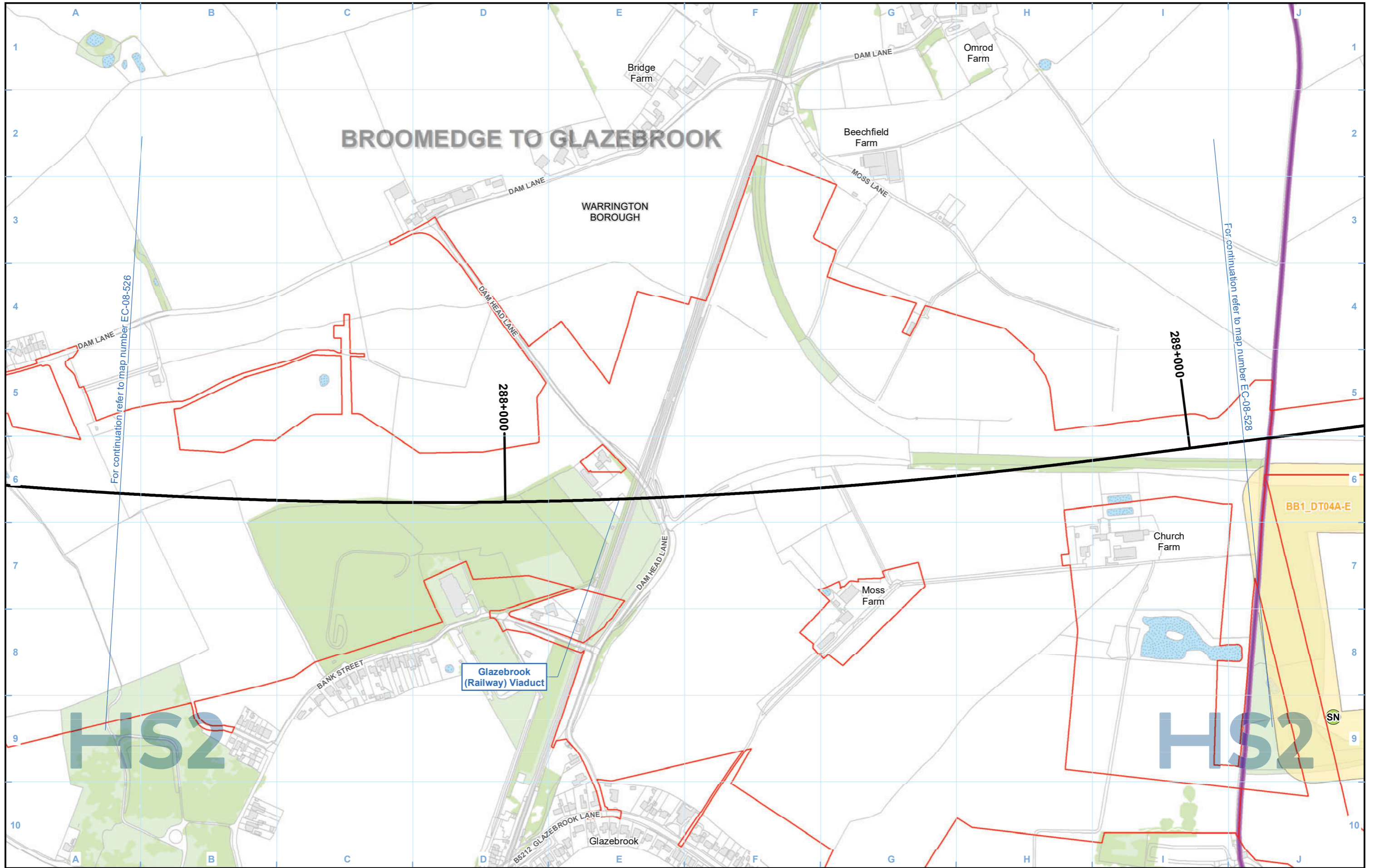
Map Number	EC-08 Legend
Map Name	EC-08 BTO Bird Species Legend

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-527b

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

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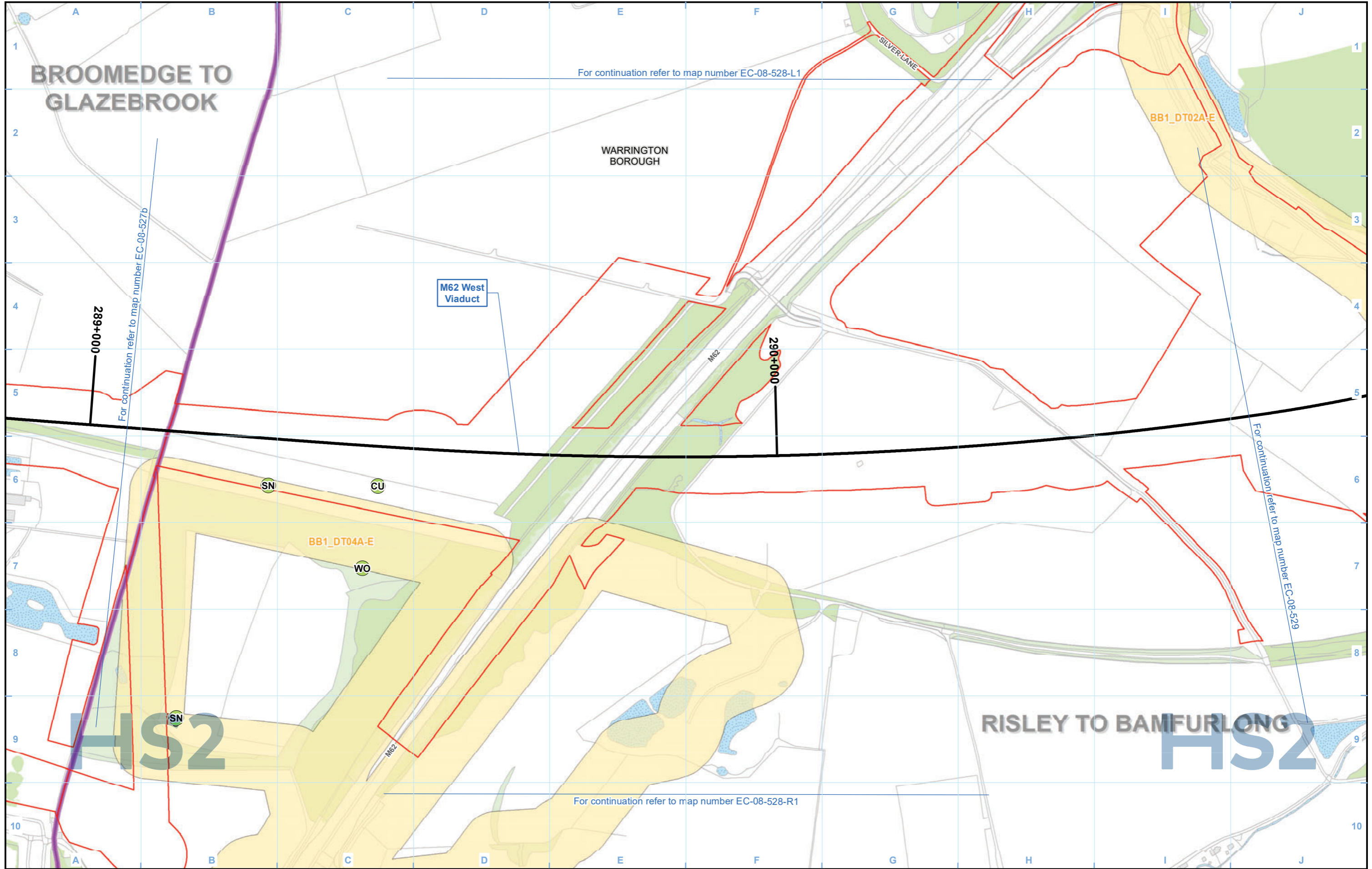
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0 50 100 150 200 Metres



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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-528

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

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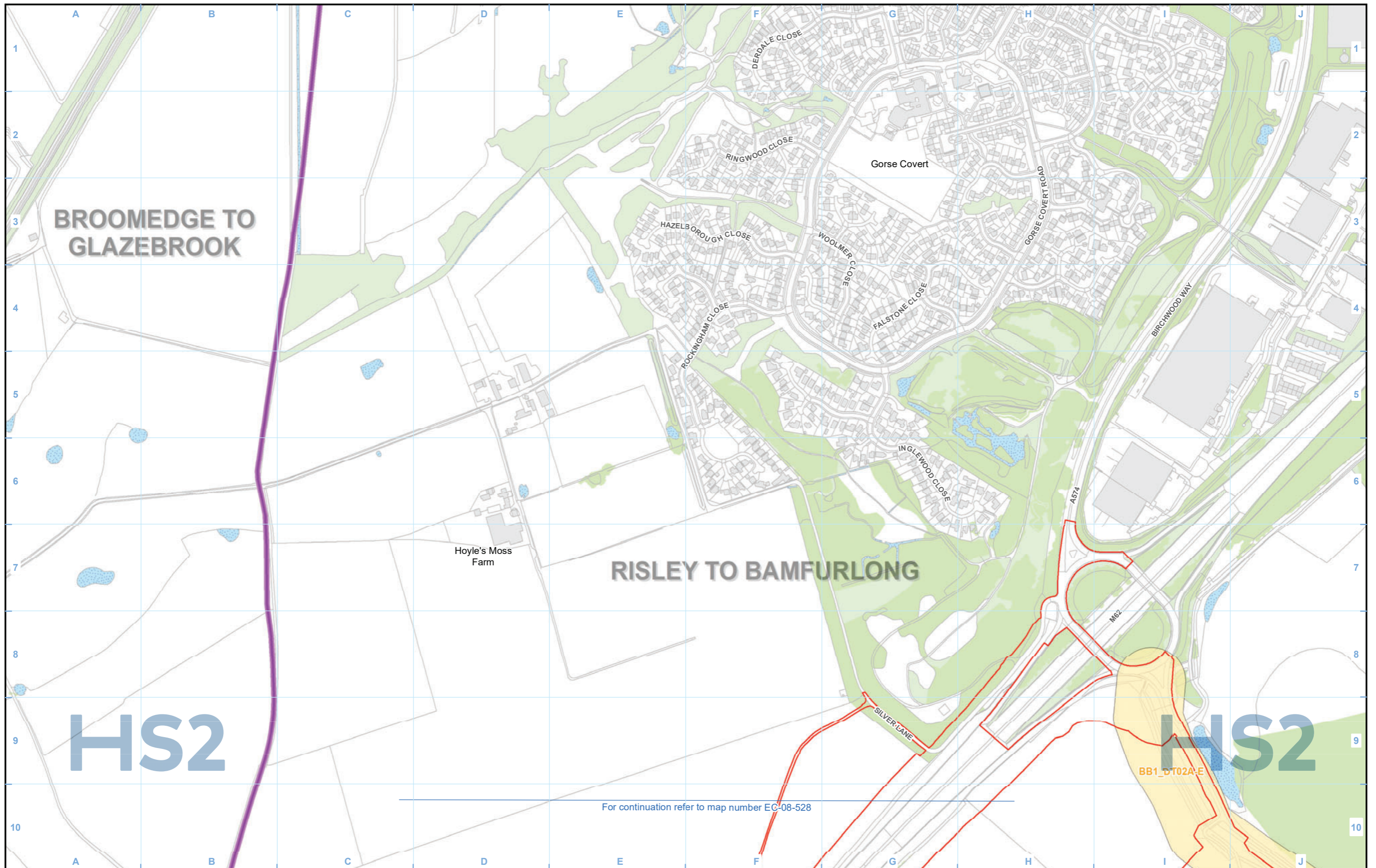
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Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



**BROOMEDGE TO
GLAZEBROOK**

RISLEY TO BAMFURLONG

HS2

HS2

For continuation refer to map number EC-08-528

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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-528-L1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

HS2

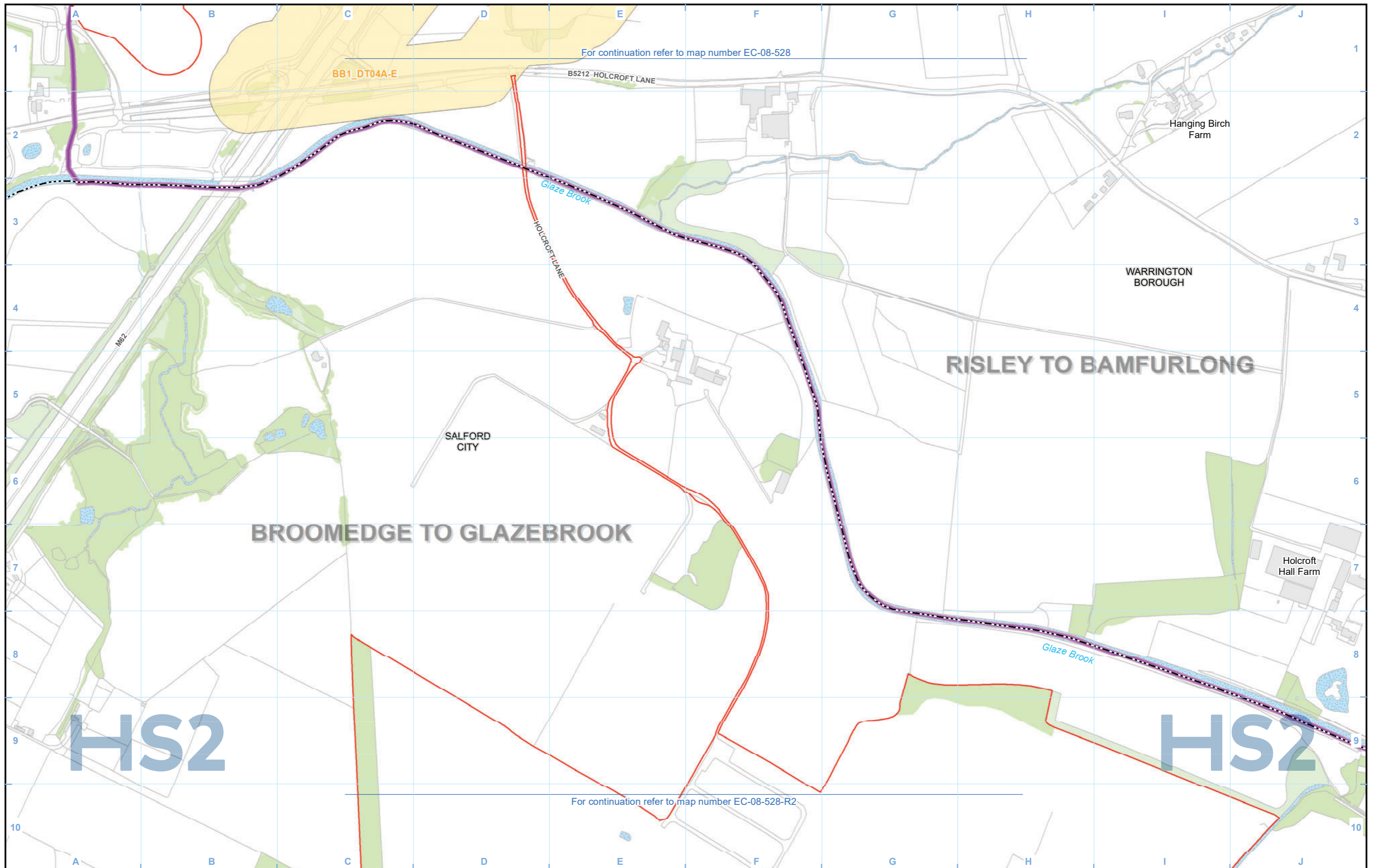
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-528-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

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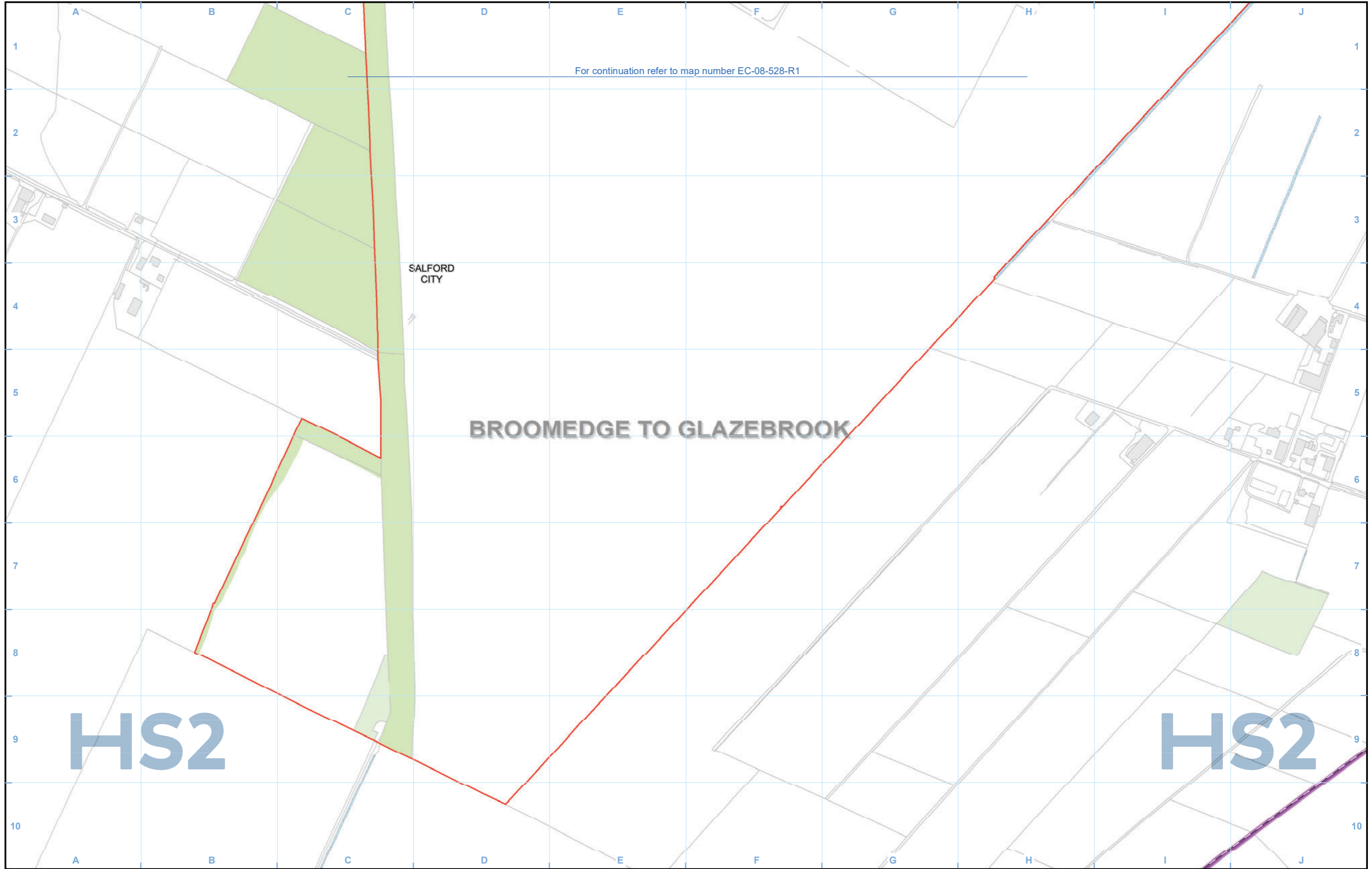
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-528-R2**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

HS2

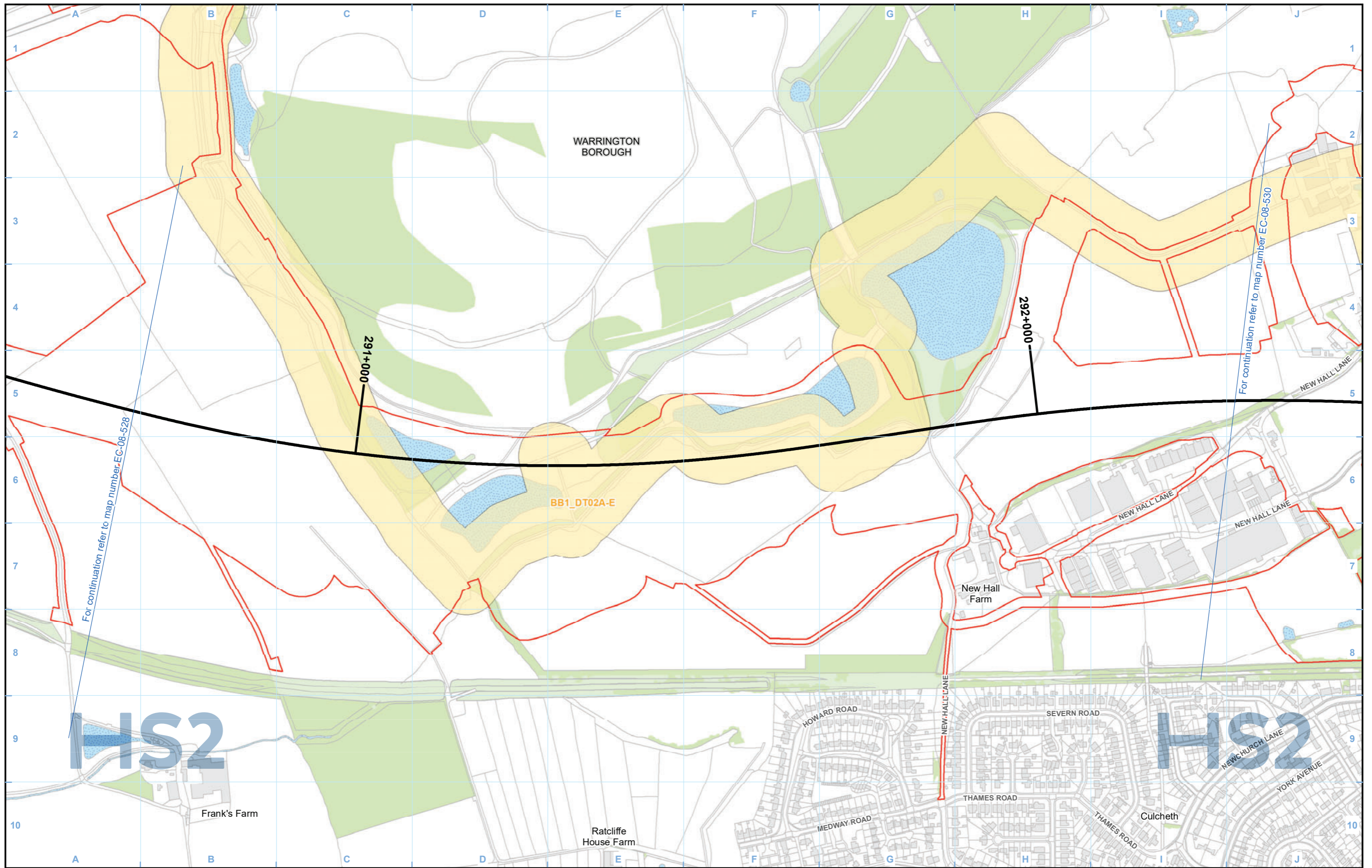
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-529

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

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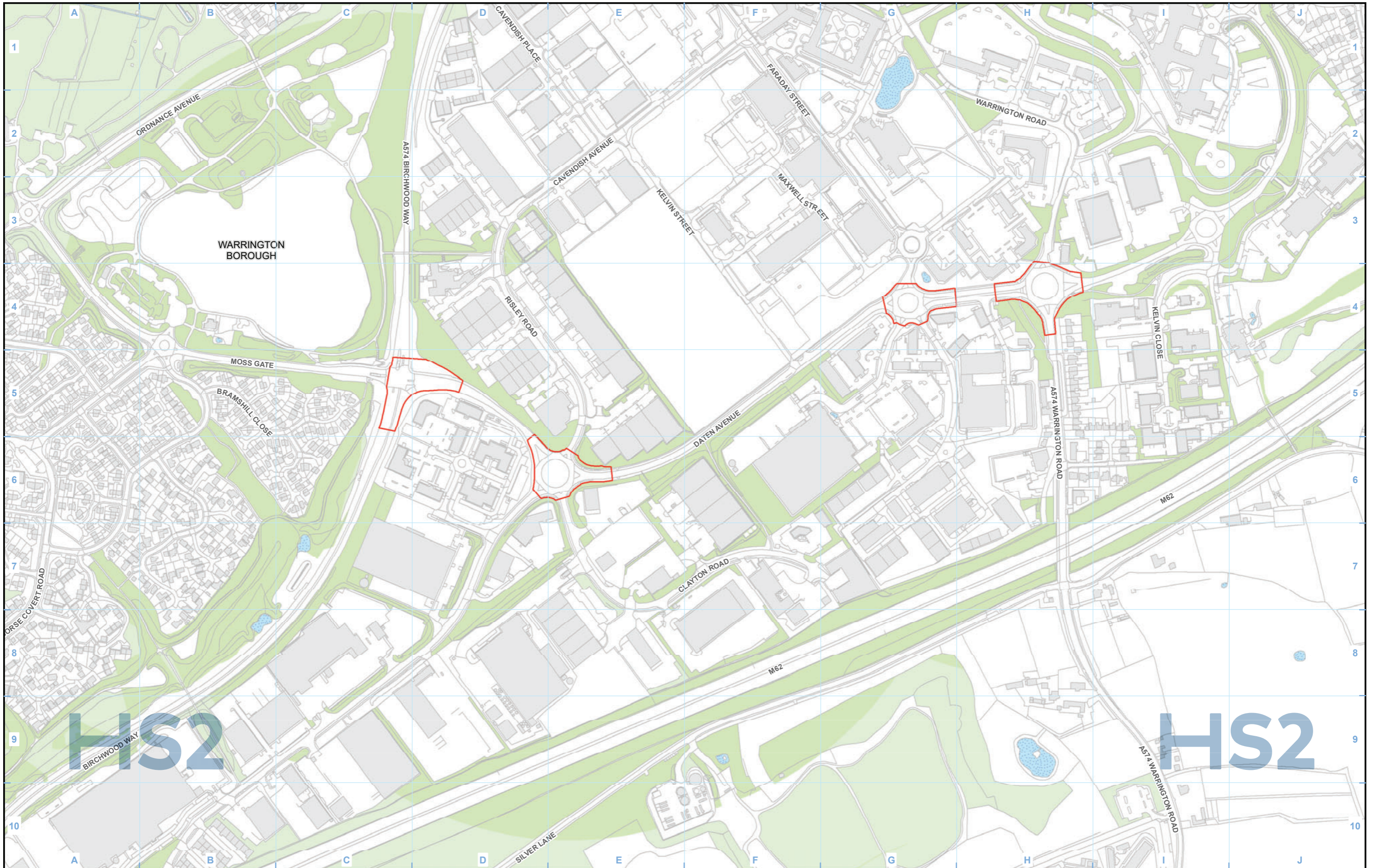
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Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-529-L1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

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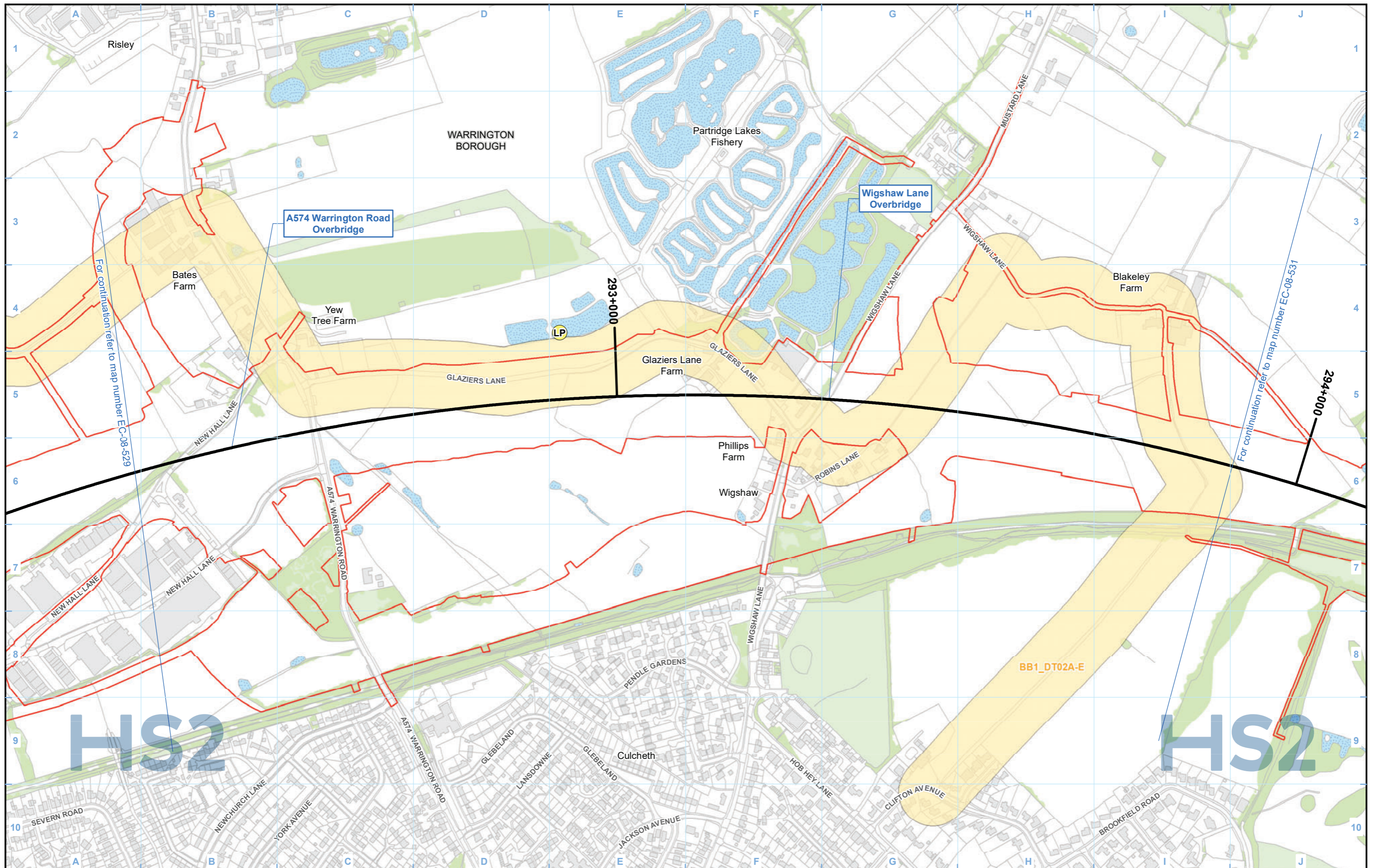
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Date: 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-530

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

HS2

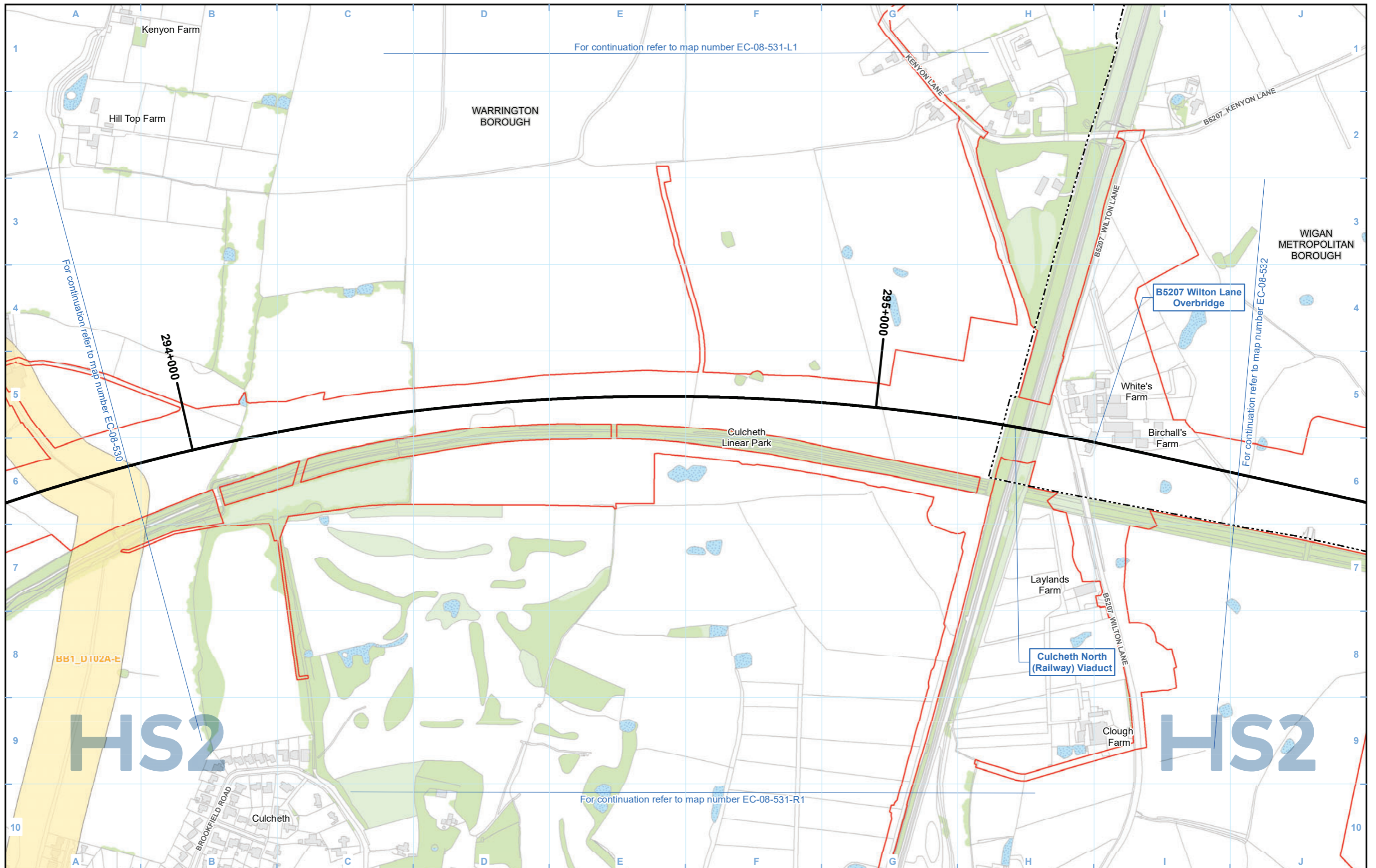
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Date: 12/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-531

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

HS2

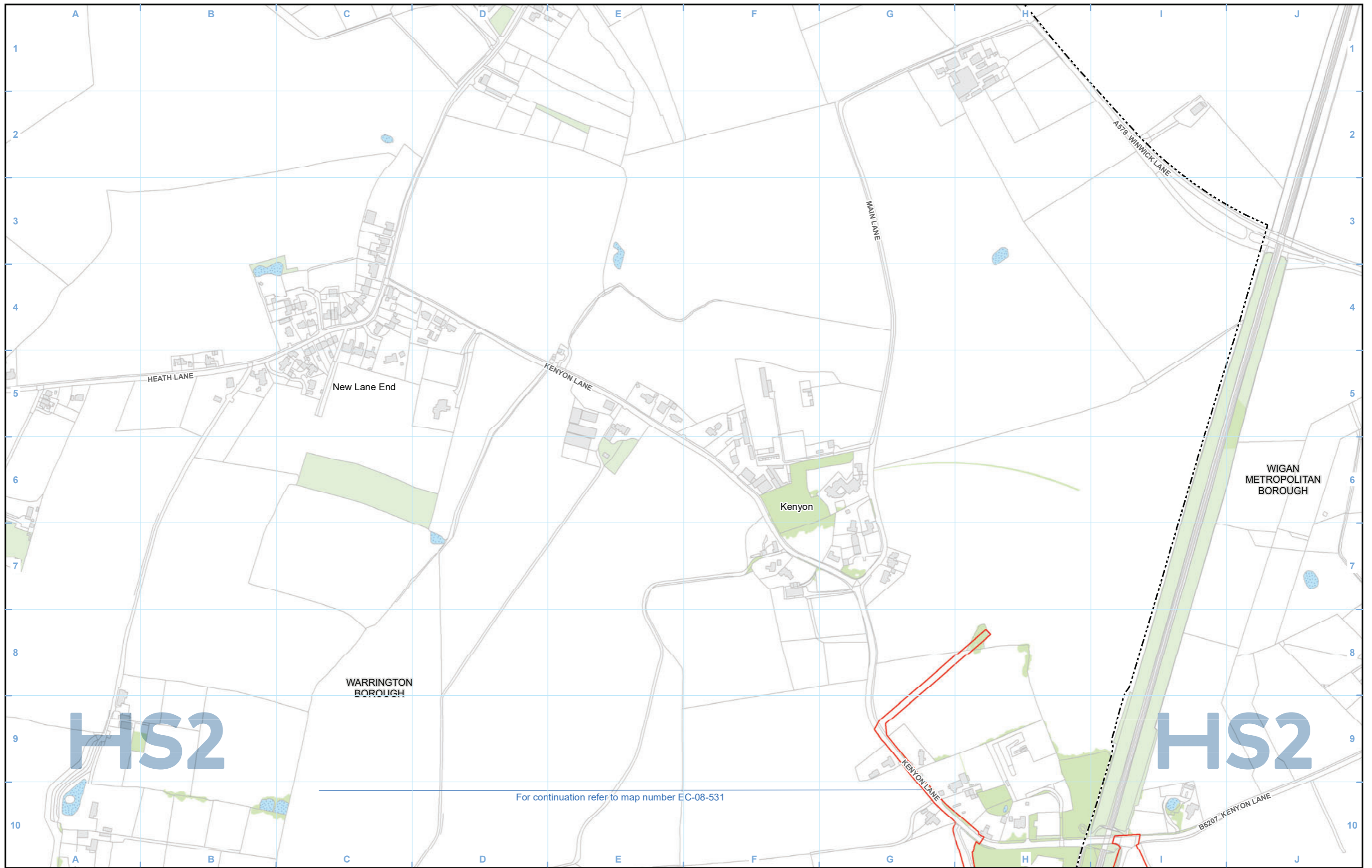
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Date: 12/08/21



HS2

HS2

For continuation refer to map number EC-08-531

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-531-L1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

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For continuation refer to map number EC-08-531

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-531-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

HS2

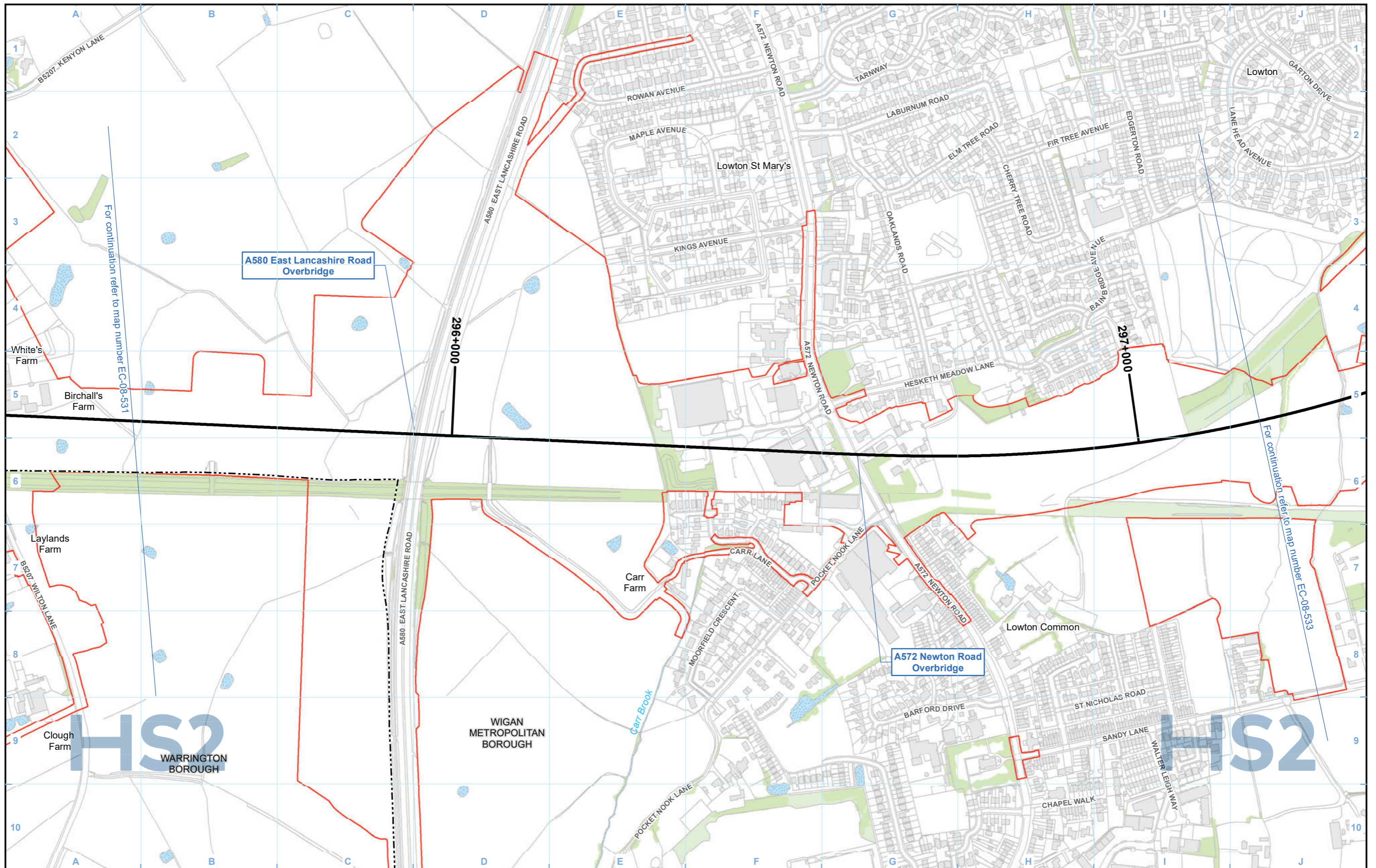
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-532

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

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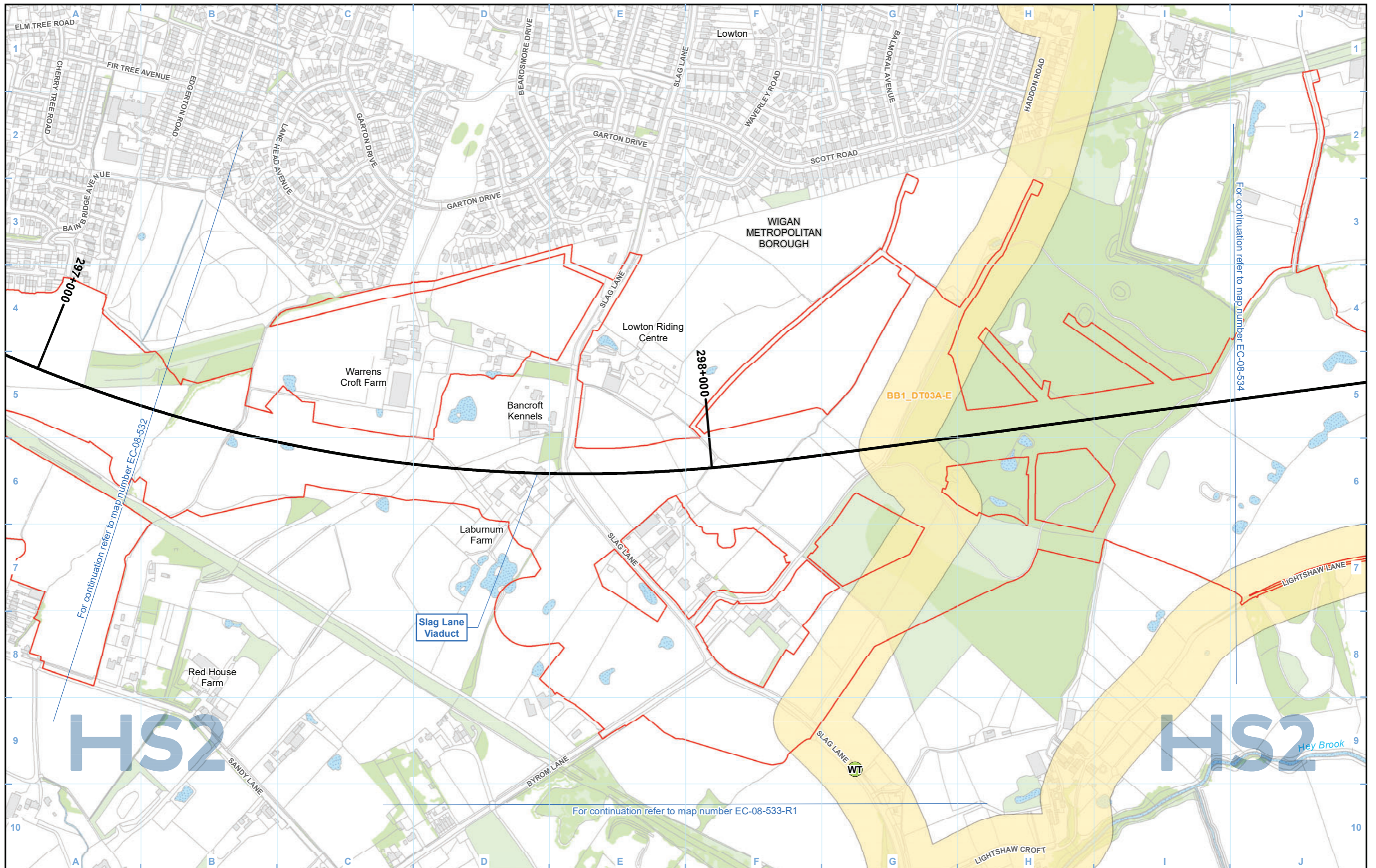
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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Birds of Conservation Concern
	Other notable species relevant to assessment
	Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number	EC-08-533
Map Name	Breeding Birds – Protected and Notable Species
	Community Area MA05: Risley to Bamfurlong

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Date: 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-533-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

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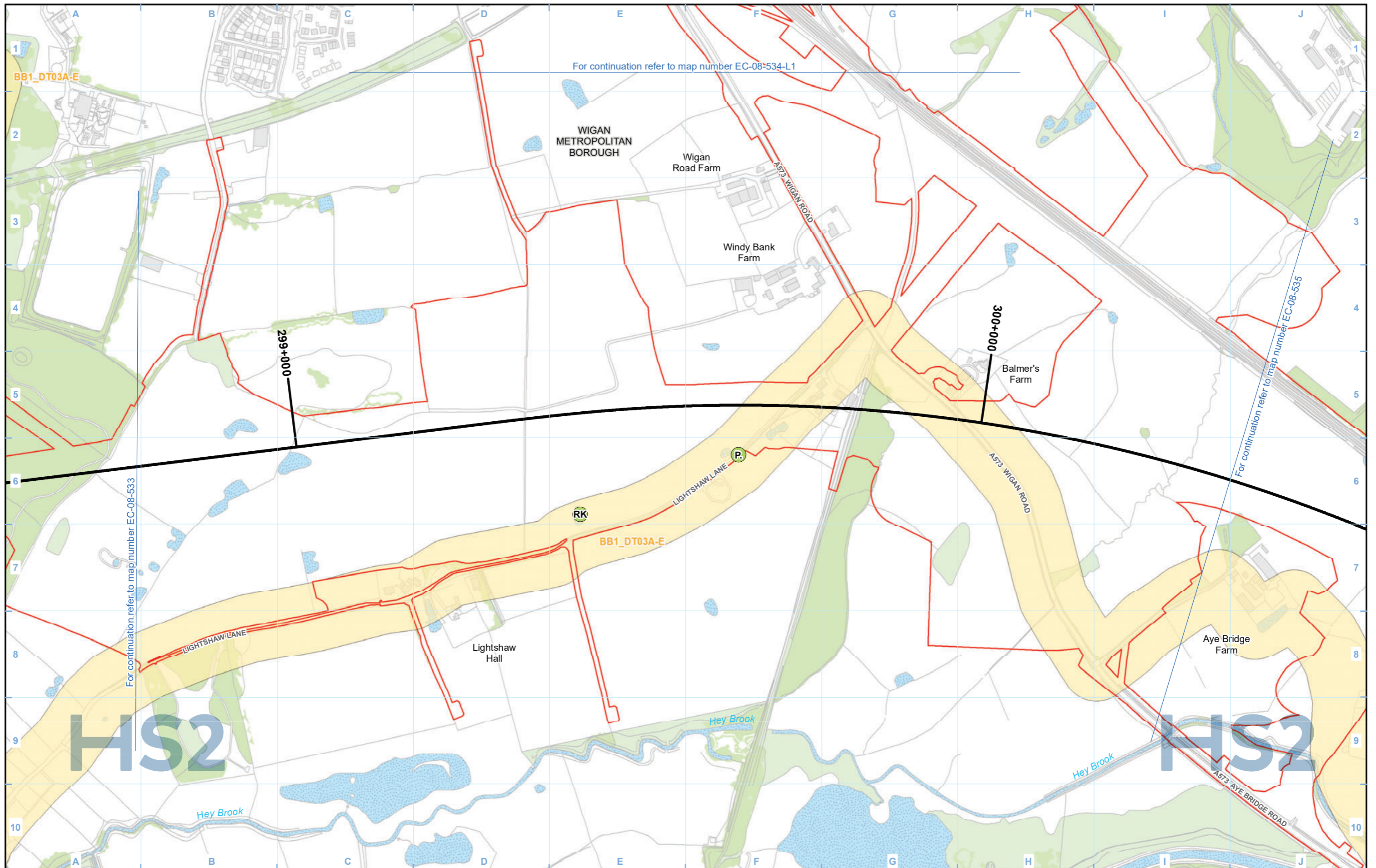
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-534

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-534-L1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

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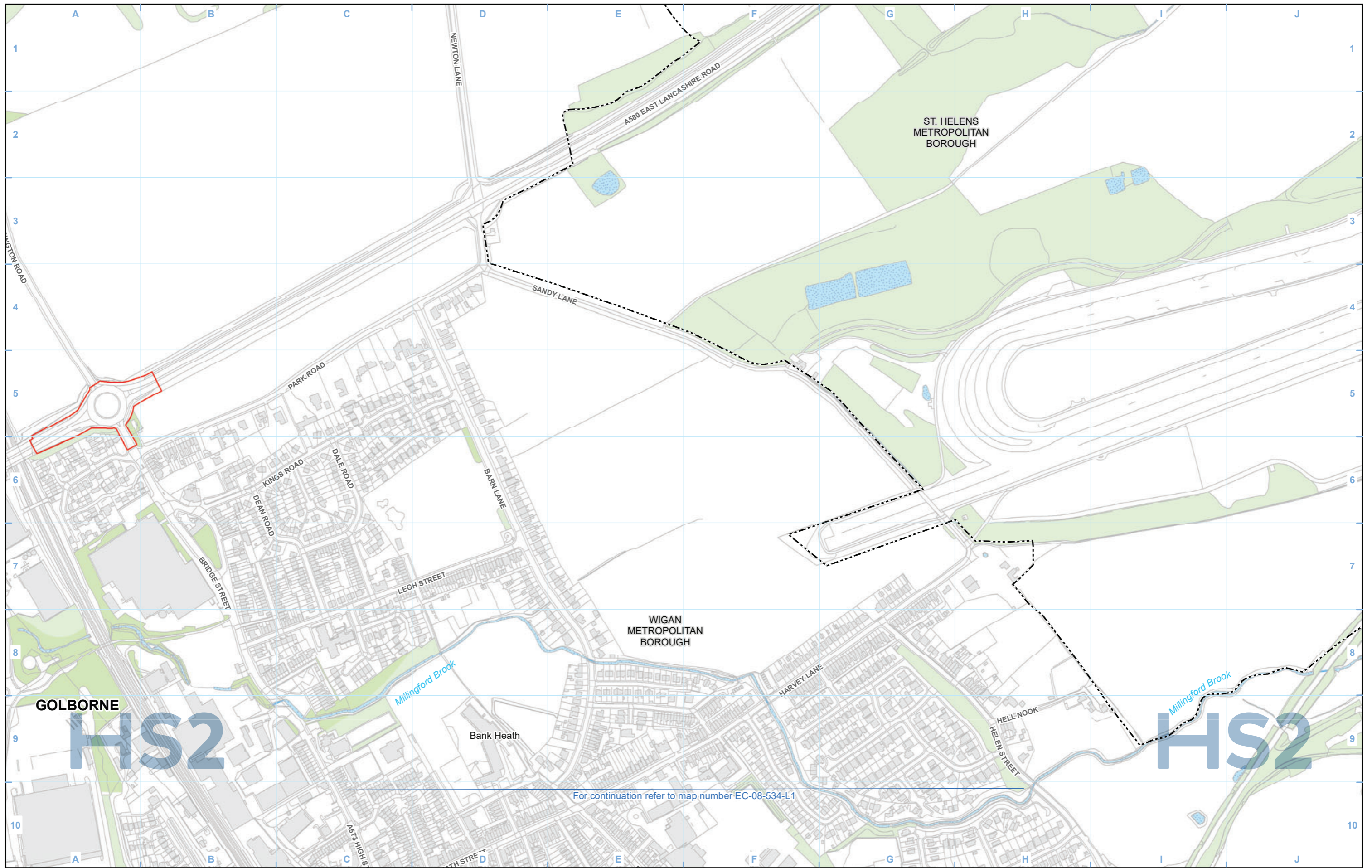
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0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-534-L2**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

HS2

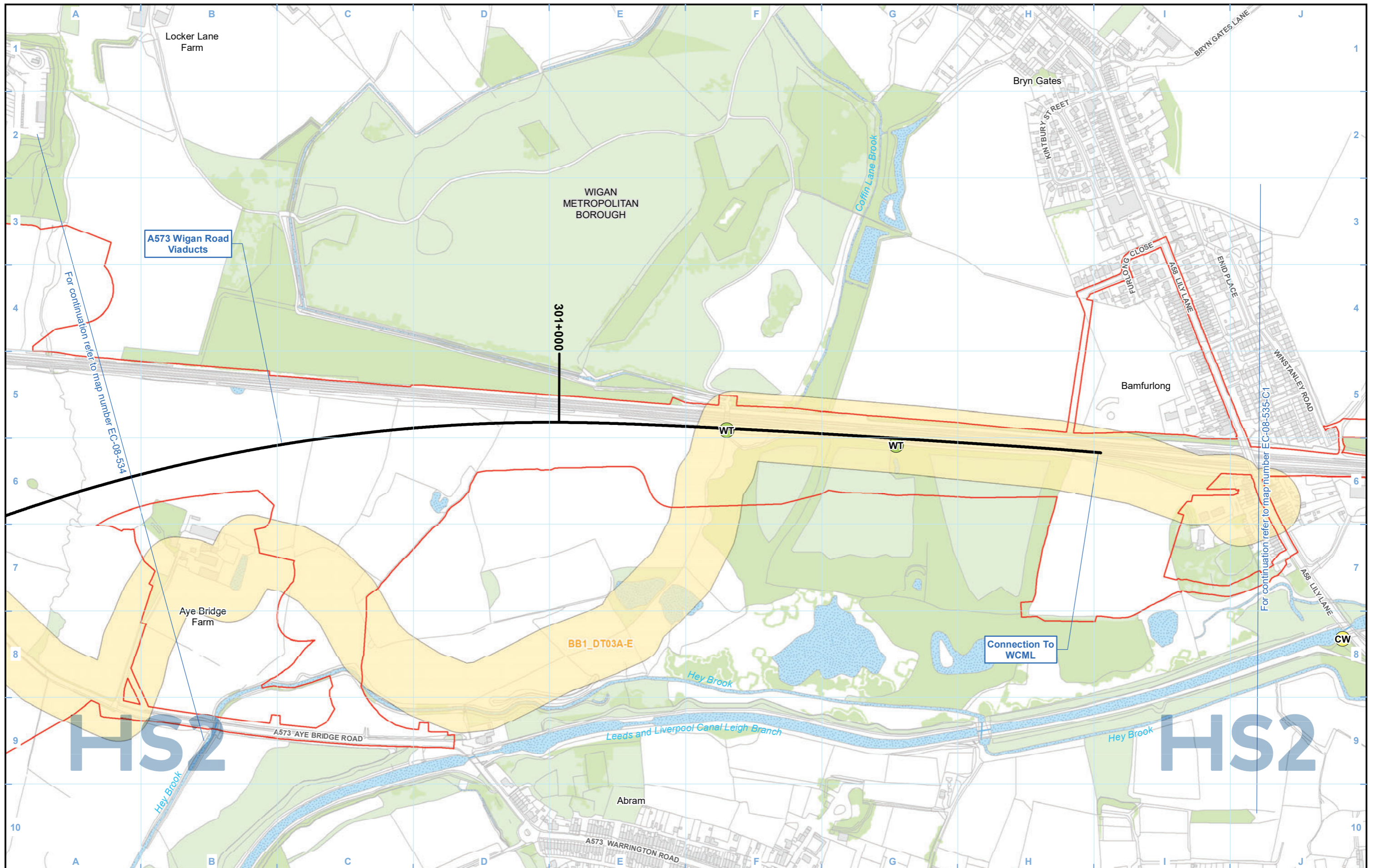
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Date: 12/08/21

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-535

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

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For continuation refer to map number EC-08-535

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)
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Breeding birds - survey extent
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Birds of Conservation Concern
	Other notable species relevant to assessment

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Map Number	EC-08-535-C1
Map Name	Breeding Birds – Protected and Notable Species
Community Area MA05: Risley to Bamfurlong	

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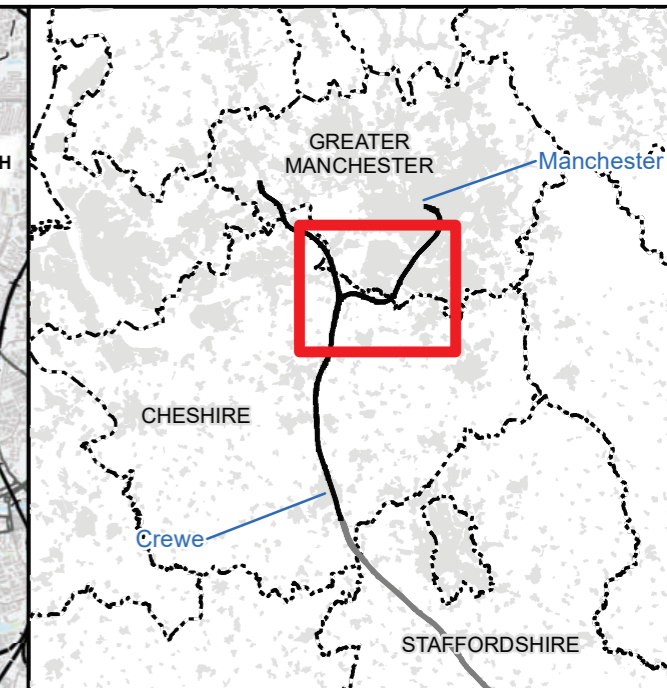
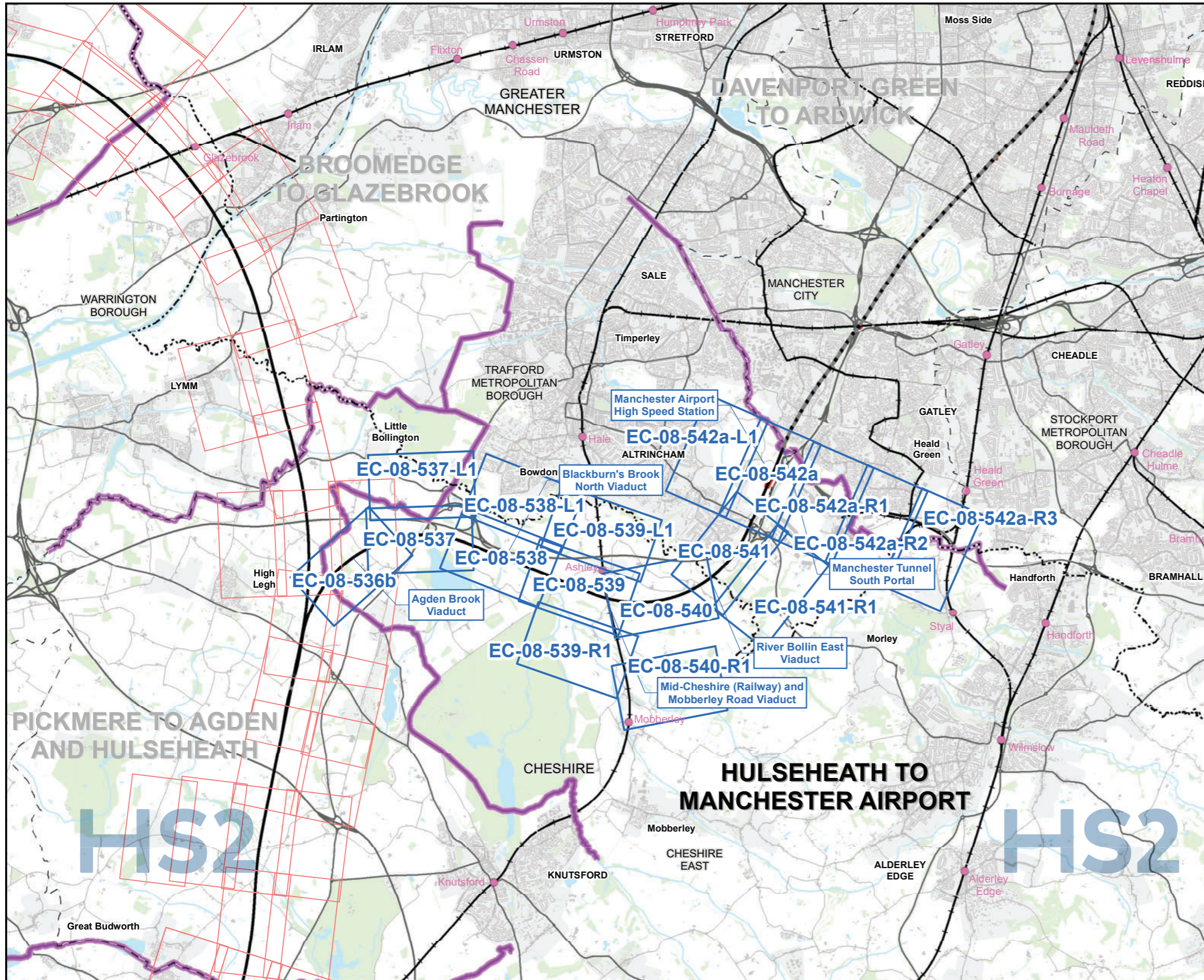
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Scale at A3: 1:5,000

Metres

Date: 12/08/21

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Map Series Information:

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.

Main Map Legend

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

Map Number EC-08-INDEX-MA06

Map Name Index Map of:
Breeding Birds – Protected and Notable Species

Community Area MA06:
Hulseheath to Manchester Airport

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BTO SPECIES CODES

AC	Arctic Skua	D.	Dunnock	K.	Kestrel	RN	Raven	SG	Starling
AE	Arctic Tern	EG	Egyptian Goose	KF	Kingfisher	RA	Razorbill	SD	Stock Dove
AV	Avocet	E.	Eider	KI	Kittiwake	RG	Red Grouse	SC	Stonechat
BO	Barn Owl	FP	Feral Pigeon	KN	Knot	KT	Red Kite	TN	Stone-curlew
BY	Barnacle Goose	ZL	Feral/hybrid goose	LM	Lady Amherst's Pheasant	ED	Red-backed Shrike	TM	Storm Petrel
BA	Bar-tailed Godwit	ZF	Feral/hybrid mallard type	LA	Lapland Bunting	RM	Red-breasted Merganser	SL	Swallow
BR	Bearded Tit	FF	Fieldfare	L.	Lapwing	RQ	Red-crested Pochard	SI	Swift
BS	Berwick's Swan	FC	Firecrest	TL	Leach's Petrel	FV	Red-footed Falcon	TO	Tawny Owl
BI	Bittern	F.	Fulmar	LB	Lesser Black-backed Gull	RL	Red-legged Partridge	T.	Teal
BK	Black Grouse	GA	Gadwall	LS	Lesser Spotted Woodpecker	NK	Red-necked Phalarope	TK	Temminck's Stint
TY	Black Guillemot	GX	Gannet	LW	Lesser Whitethroat	LR	Redpoll (Lesser)	TP	Tree Pipit
BX	Black Redstart	GW	Garden Warbler	LI	Linnet	RK	Redshank	TS	Tree Sparrow
BJ	Black Tern	GY	Garganey	ET	Little Egret	RT	Redstart	TC	Treecreeper
B.	Blackbird	GC	Goldcrest	LG	Little Grebe	RH	Red-throated Diver	TU	Tufted Duck
BC	Blackcap	EA	Golden Eagle	LU	Little Gull	RE	Redwing	TT	Turnstone
BH	Black-headed Gull	OL	Golden Oriole	LO	Little Owl	RB	Reed Bunting	TD	Turtle Dove
BN	Black-necked Grebe	GF	Golden Pheasant	LP	Little Ringed Plover	RW	Reed Warbler	TW	Twite
BW	Black-tailed Godwit	GP	Golden Plover	AF	Little Tern	RZ	Ring Ouzel	WA	Water Rail
BV	Black-throated Diver	GN	Goldeneye	LE	Long-eared Owl	RP	Ringed Plover	W.	Wheatear
BT	Blue Tit	GO	Goldfinch	LT	Long-tailed Tit	RI	Ring-necked Parakeet	WM	Whimbrel
BU	Bluethroat	GD	Goosander	MG	Magpie	R.	Robin	WC	Whinchat
BL	Brambling	GI	Goshawk	MA	Mallard	DV	Rock Dove (not feral)	WG	White-fronted Goose
BG	Brent Goose	GH	Grasshopper Warbler	MN	Mandarin Duck	RC	Rock Pipit	WH	Whitethroat
BF	Bullfinch	GB	Great Black-backed Gull	MX	Manx Shearwater	RO	Rook	WS	Whooper Swan
BZ	Buzzard	GG	Great Crested Grebe	MR	Marsh Harrier	RS	Roseate Tern	WN	Wigeon
CG	Canada Goose	ND	Great Northern Diver	MT	Marsh Tit	RY	Ruddy Duck	WT	Willow Tit
CP	Capercaillie	NX	Great Skua	MW	Marsh Warbler	RU	Ruff	WW	Willow Warbler
C.	Carrion Crow	GS	Great Spotted Woodpecker	MP	Meadow Pipit	SM	Sand Martin	OD	Wood Sandpiper
CW	Cetti's Warbler	GT	Great Tit	MU	Mediterranean Gull	SS	Sanderling	WO	Wood Warbler
CH	Chaffinch	GE	Green Sandpiper	ML	Merlin	TE	Sandwich Tern	WK	Woodcock
CC	Chiffchaff	G.	Green Woodpecker	M.	Mistle Thrush	VI	Savi's Warbler	WL	Woodlark
CF	Chough	GR	Greenfinch	MO	Montagu's Harrier	SQ	Scarlet Rosefinch	WP	Woodpigeon
CL	Cirl Bunting	GK	Greenshank	MH	Moorhen	SP	Scaup	WR	Wren
CT	Coal Tit	H.	Grey Heron	MS	Mute Swan	CY	Scottish Crossbill	WY	Wryneck
CD	Collared Dove	P.	Grey Partridge	N.	Nightingale	SW	Sedge Warbler	YW	Yellow Wagtail
CM	Common Gull	GV	Grey Plover	NJ	Nightjar	NS	Serin	Y.	Yellowhammer
CS	Common Sandpiper	GL	Grey Wagtail	NH	Nuthatch	SA	Shag		
CX	Common Scoter	GJ	Greylag Goose	OP	Osprey	SU	Shelduck		
CN	Common Tern	GU	Guillemot	OC	Oystercatcher	SX	Shorelark		
CO	Coot	FW	Guineafowl (Helmeted)	PX	Peafowl/Peacock	SE	Short-eared Owl		
CA	Cormorant	HF	Hawfinch	PE	Peregrine	SV	Shoveler		
CB	Corn Bunting	HH	Hen Harrier	PH	Pheasant	SK	Siskin		
CE	Corncrake	HG	Herring Gull	PF	Pied Flycatcher	S.	Skylark		
CI	Crested Tit	HY	Hobby	PW	Pied Wagtail	SZ	Slavonian Grebe		
CR	Crossbill (Common)	HZ	Honey Buzzard	PG	Pink-footed Goose	SN	Snipe		
CK	Cuckoo	HC	Hooded Crow	PT	Pintail	SB	Snow Bunting		
CU	Curlew	HP	Hoopoe	PO	Pochard	ST	Song Thrush		
DW	Dartford Warbler	HM	House Martin	PM	Ptarmigan	SH	Sparrowhawk		
DI	Dipper	HS	House Sparrow	PU	Puffin	AK	Spotted Crake		
DO	Dotterel	JD	Jackdaw	PS	Purple Sandpiper	SF	Spotted Flycatcher		
DN	Dunlin	J.	Jay	Q.	Quail	DR	Spotted Redshank		

Map Number	EC-08 Legend
Map Name	EC-08 BTO Bird Species Legend

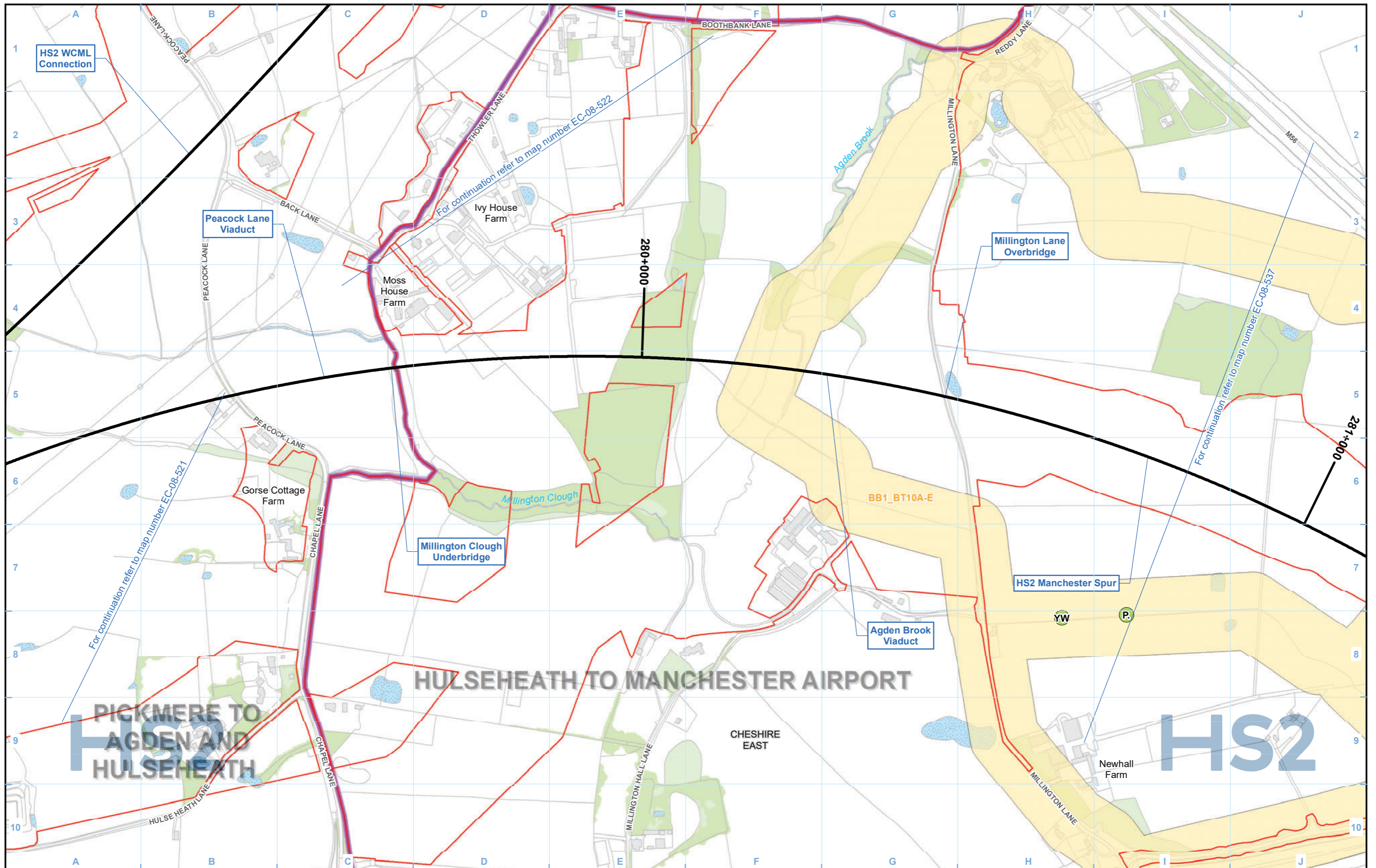
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Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 	<ul style="list-style-type: none"> Breeding birds - survey extent
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For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-536b

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA06: Hulseheath to Manchester Airport

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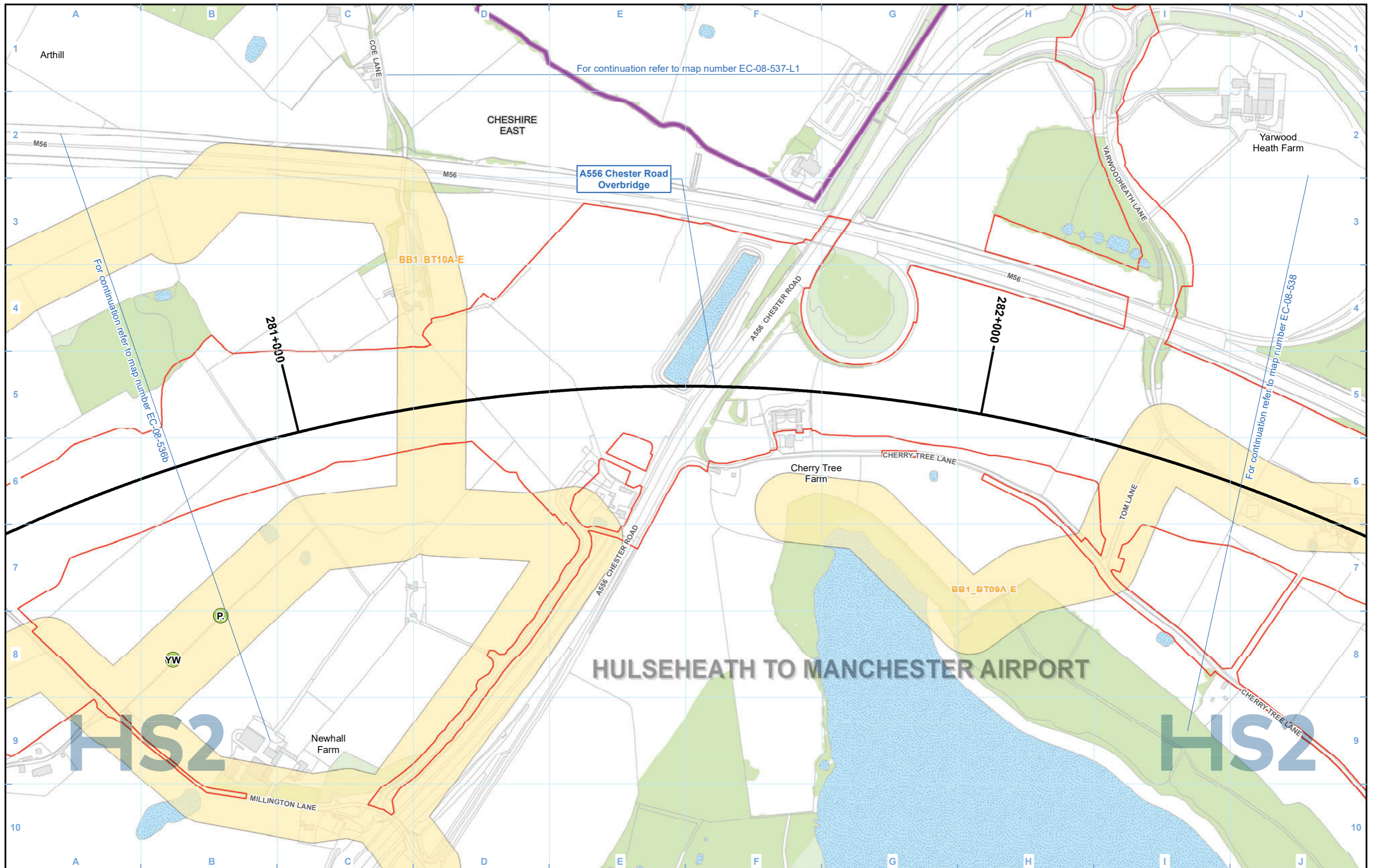
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0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-537

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA06: Hulseheath to Manchester Airport

HS2

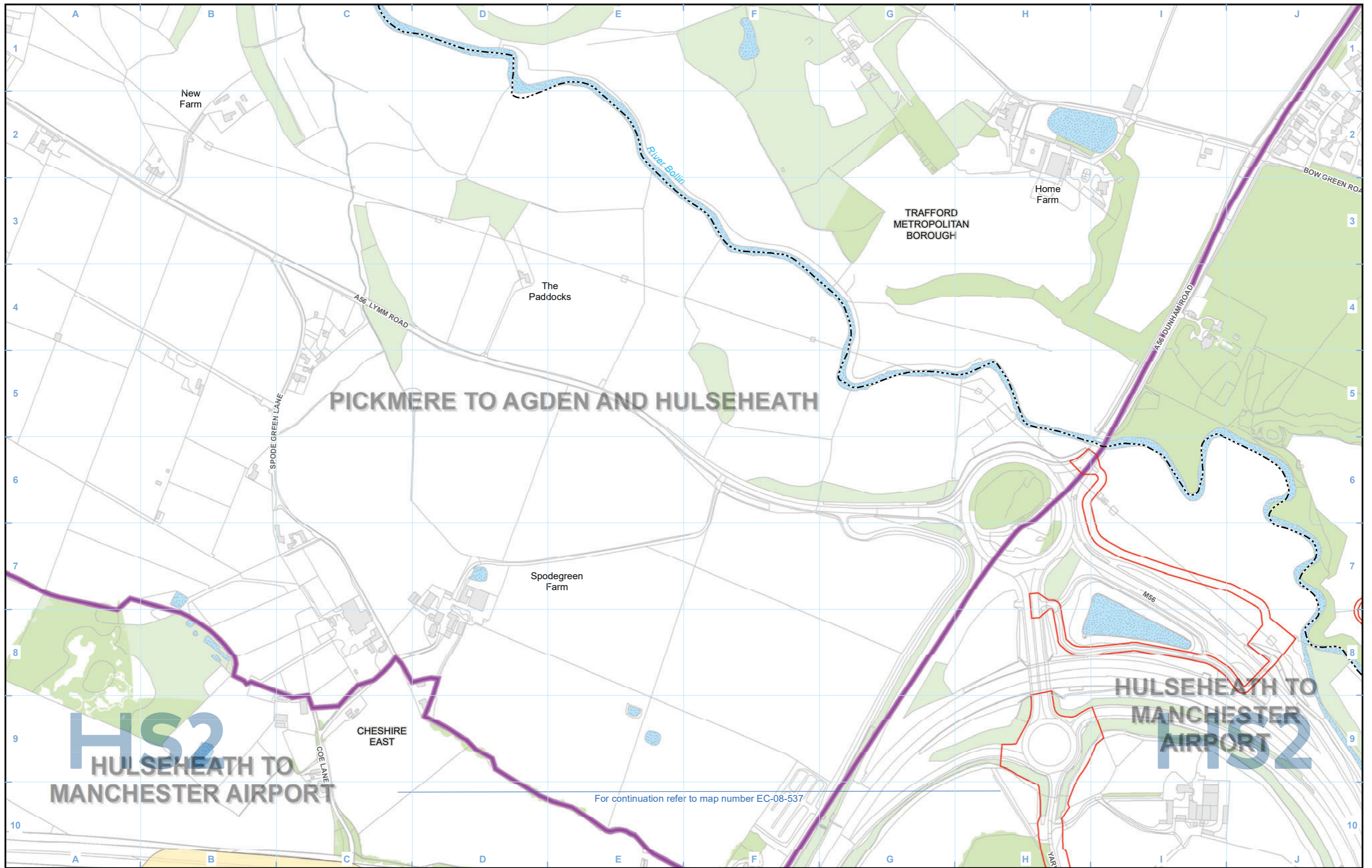
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Date: 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-537-L1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA06: Hulseheath to Manchester Airport

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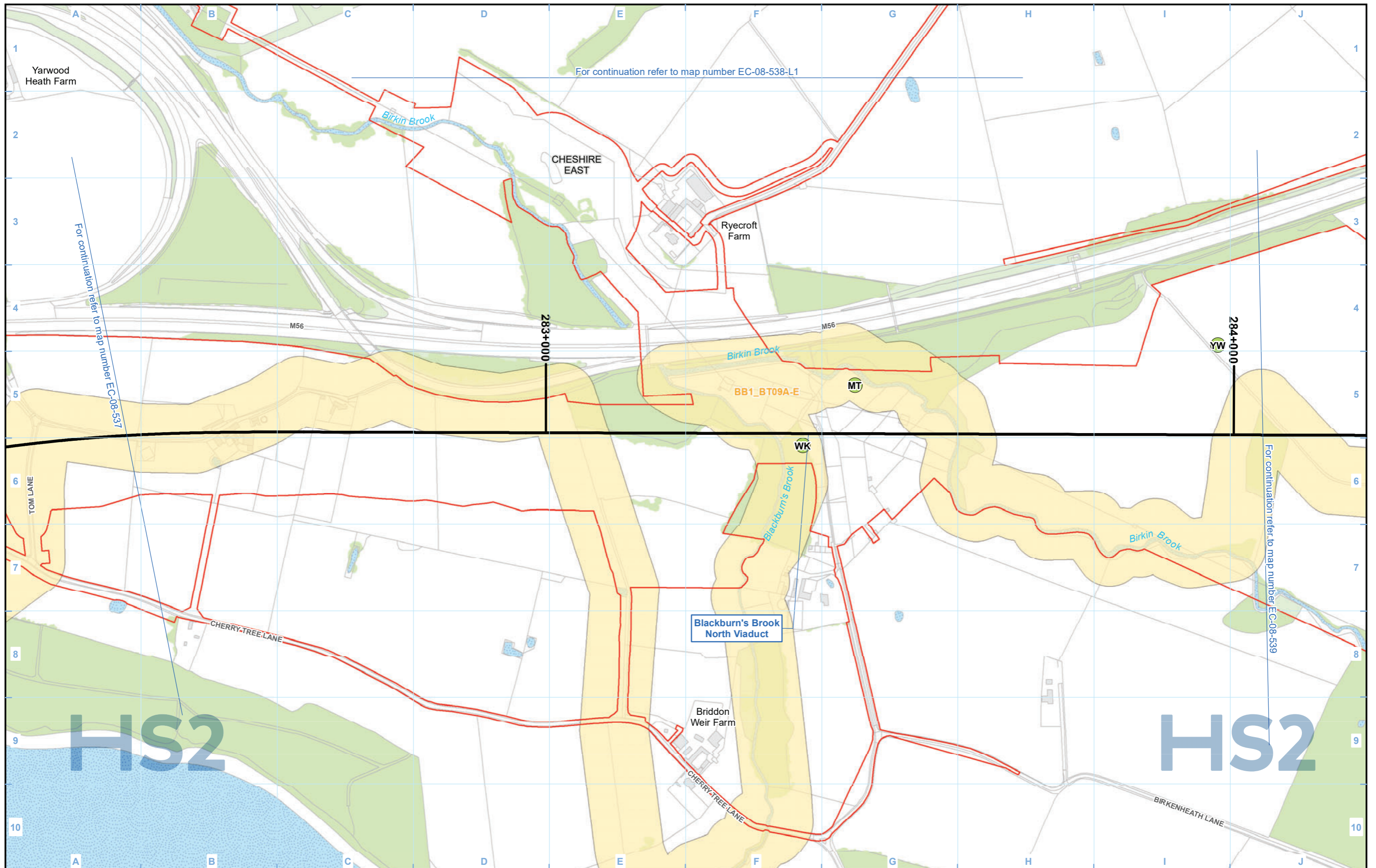
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For continuation refer to map number EC-08-538-L1

For continuation refer to map number EC-08-537

For continuation refer to map number EC-08-539

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-538

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA06: Hulseheath to Manchester Airport

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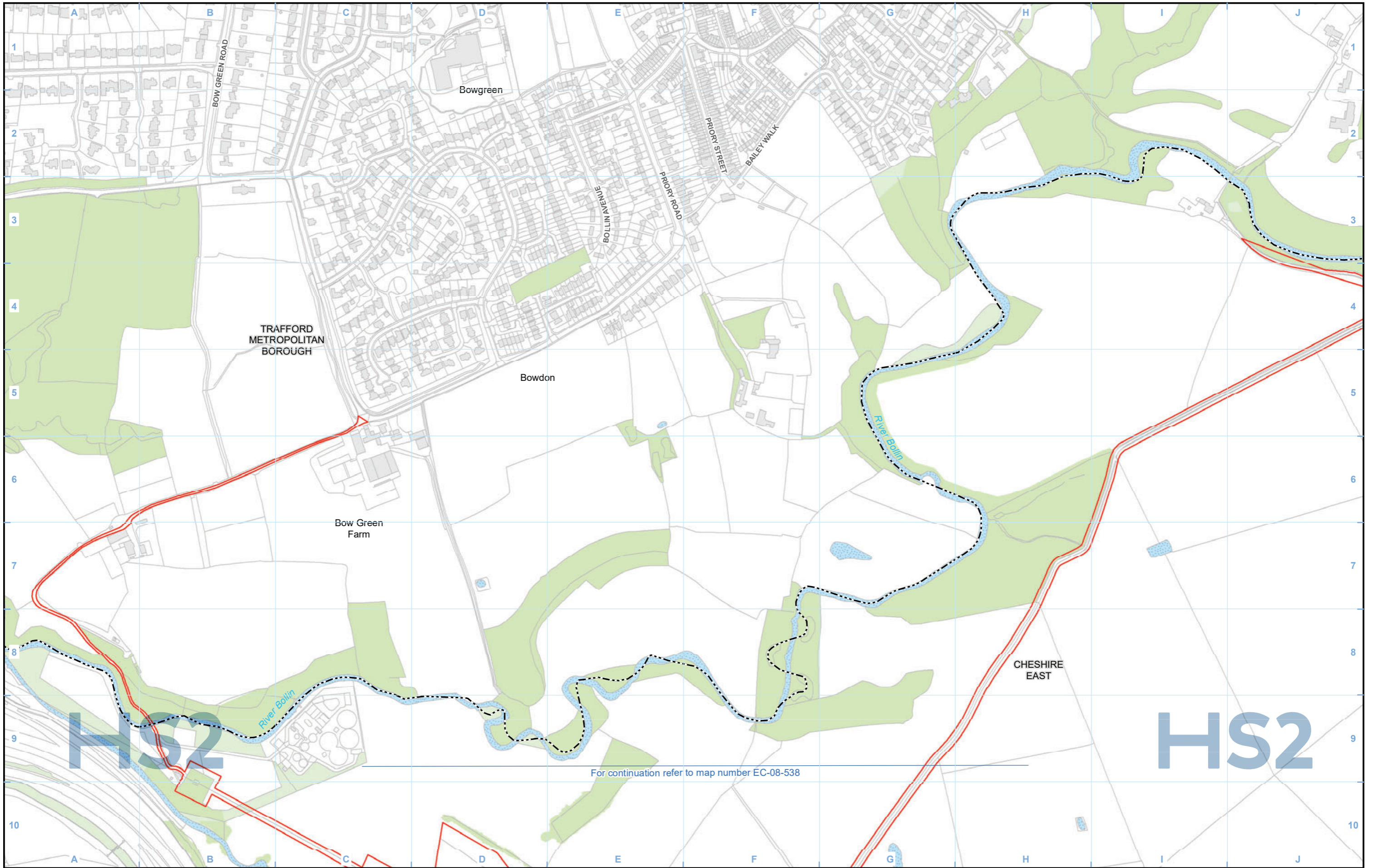
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001200-P01

Date: 12/08/21



For continuation refer to map number EC-08-538

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-538-L1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA06:
Hulseheath to Manchester Airport

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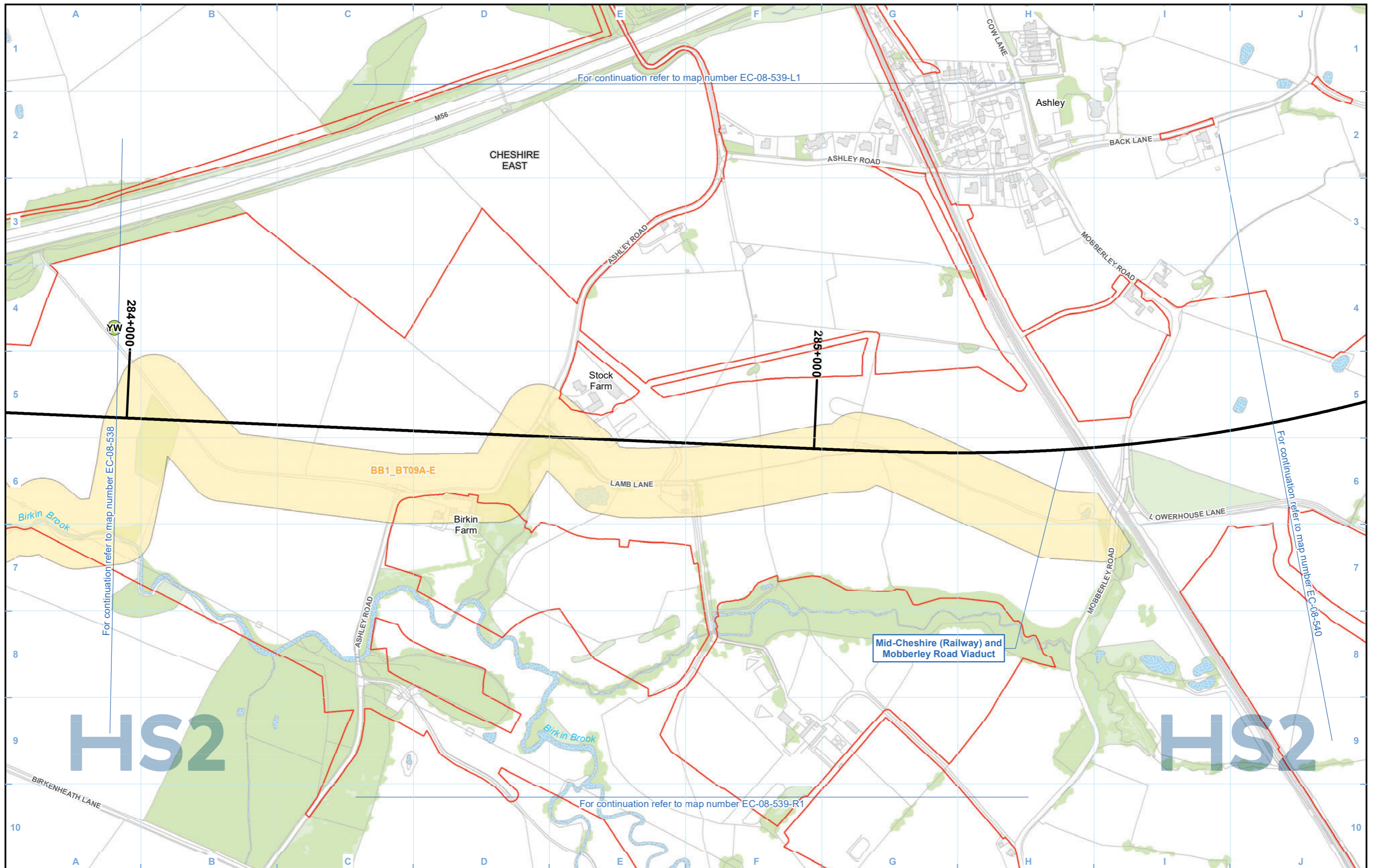
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003261-P01

Date: 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-539

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA06: Hulseheath to Manchester Airport

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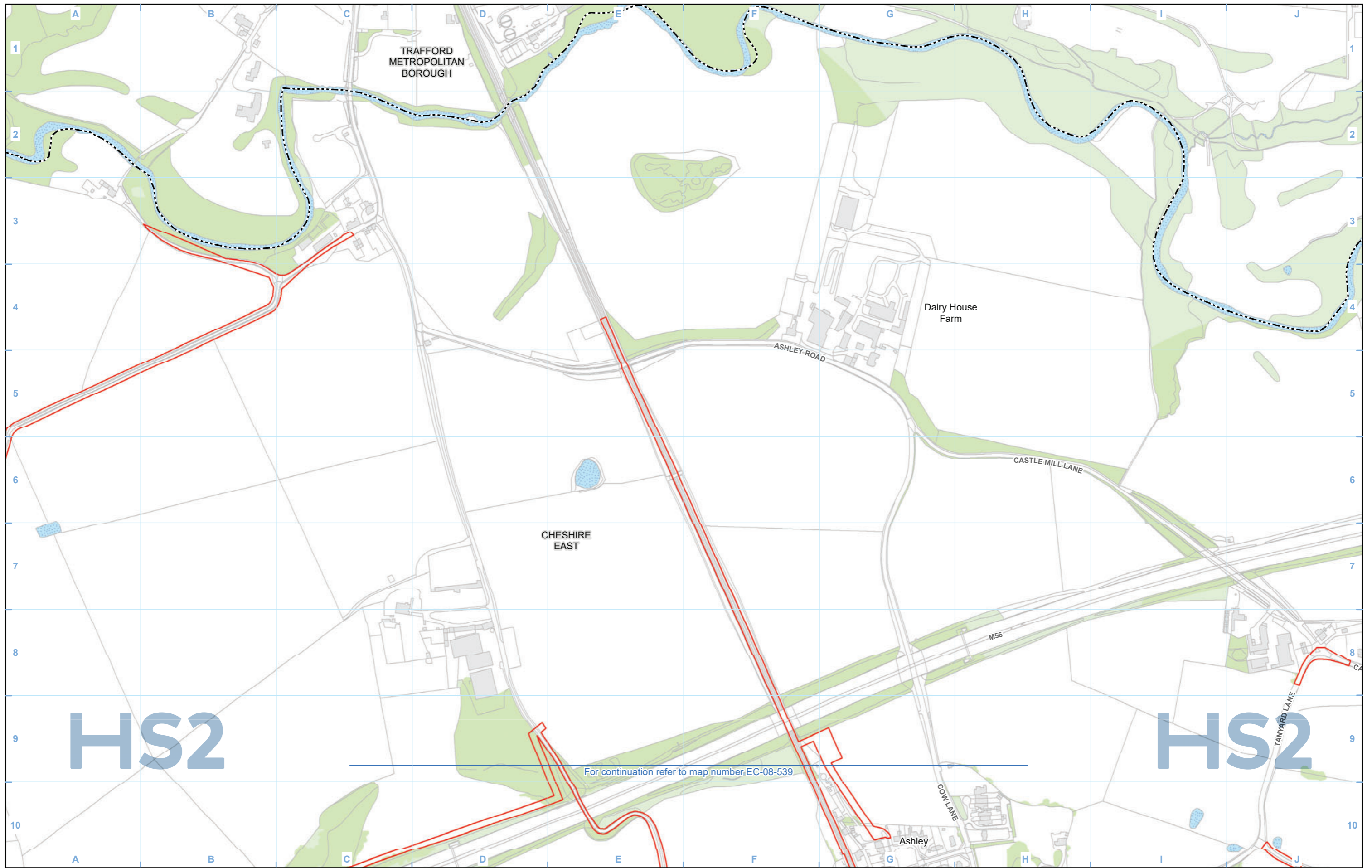
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Date: 12/08/21

Scale at A3: 1:5,000

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For continuation refer to map number EC-08-539

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-539-L1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA06:
Hulseheath to Manchester Airport

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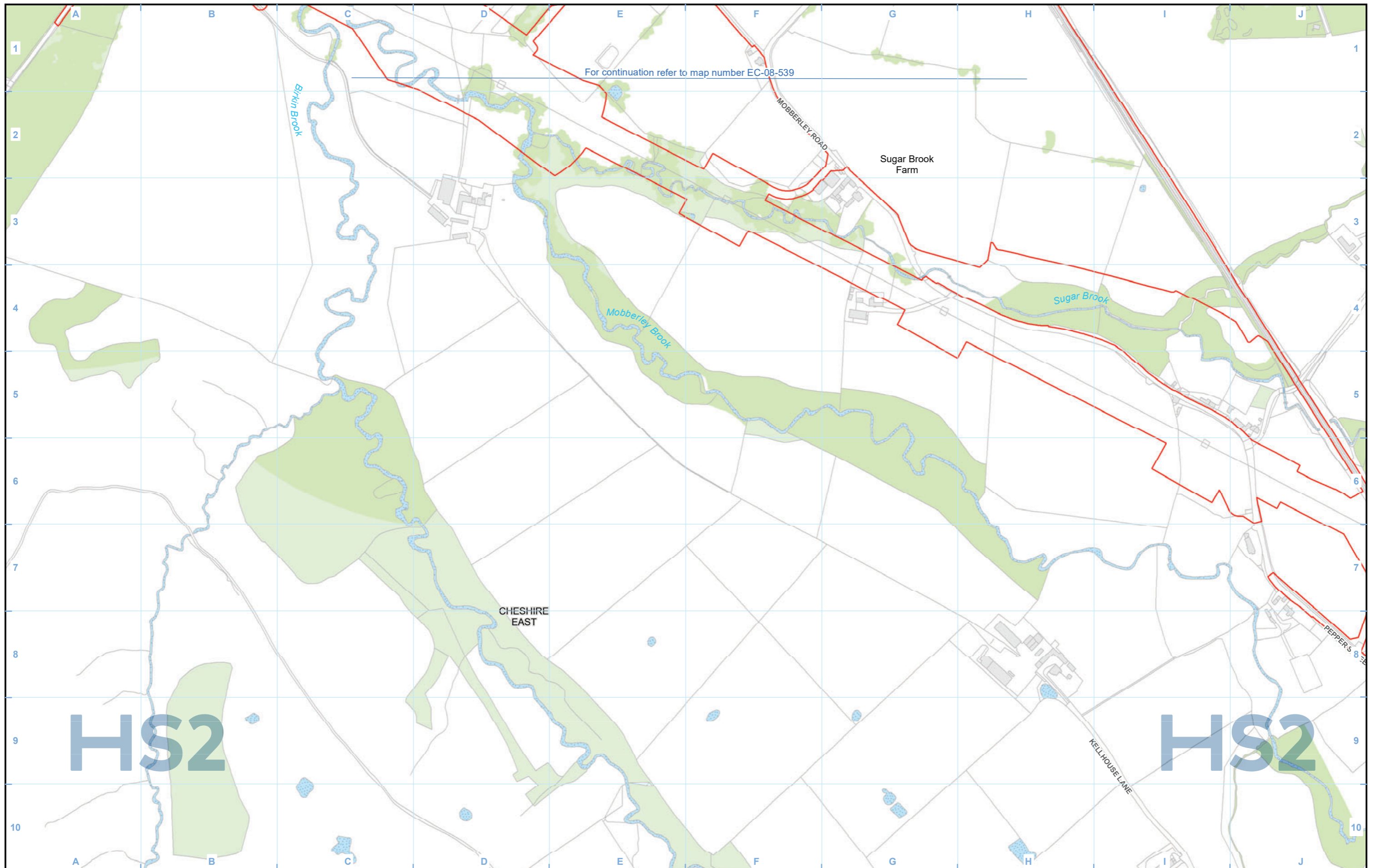
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003262-P01

Date: 12/08/21

Scale at A3: 1:5,000

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Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 	<ul style="list-style-type: none"> Breeding birds - survey extent
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For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-539-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA06:
Hulseheath to Manchester Airport

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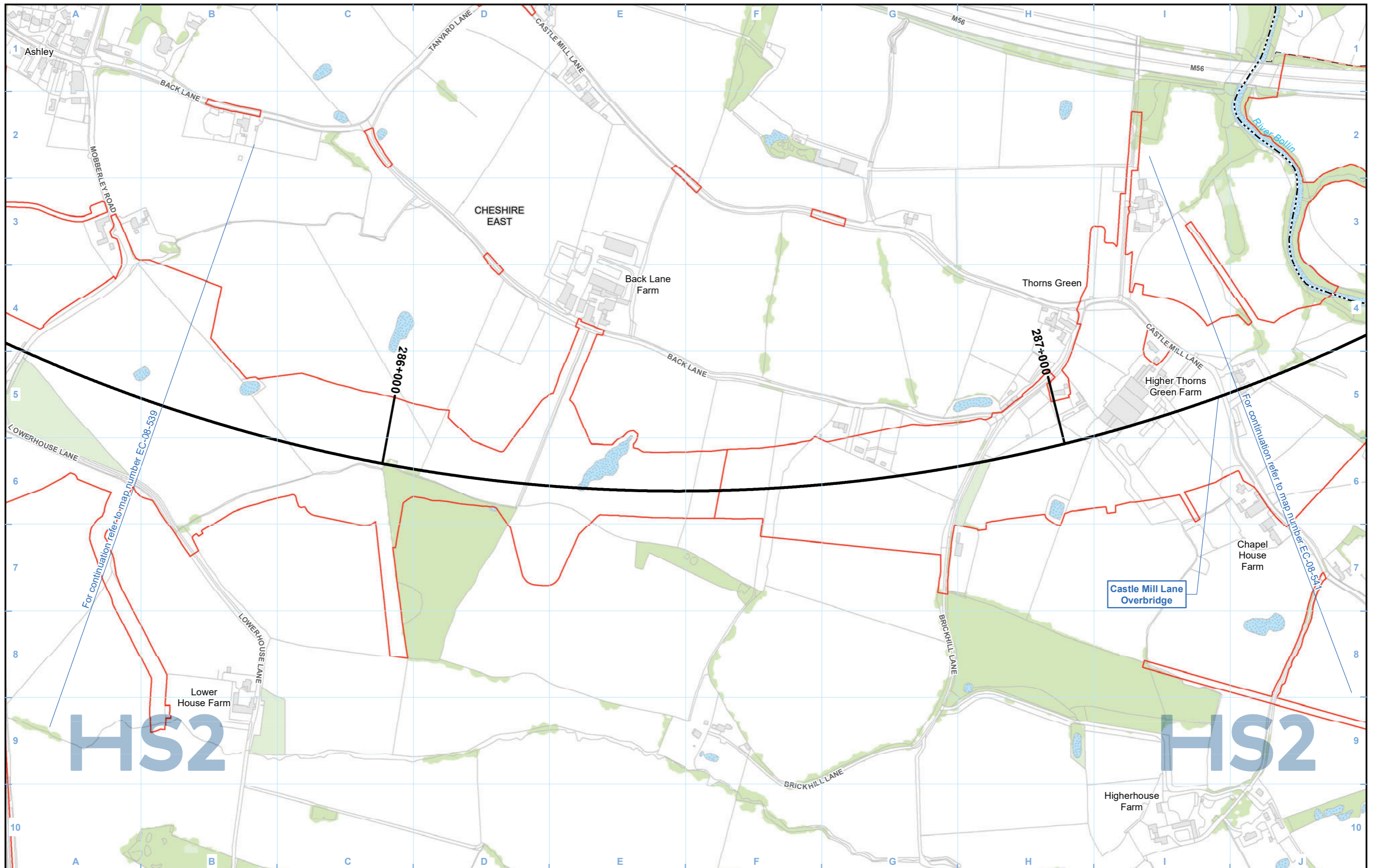
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Date: 12/08/21

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0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-540

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA06: Hulseheath to Manchester Airport

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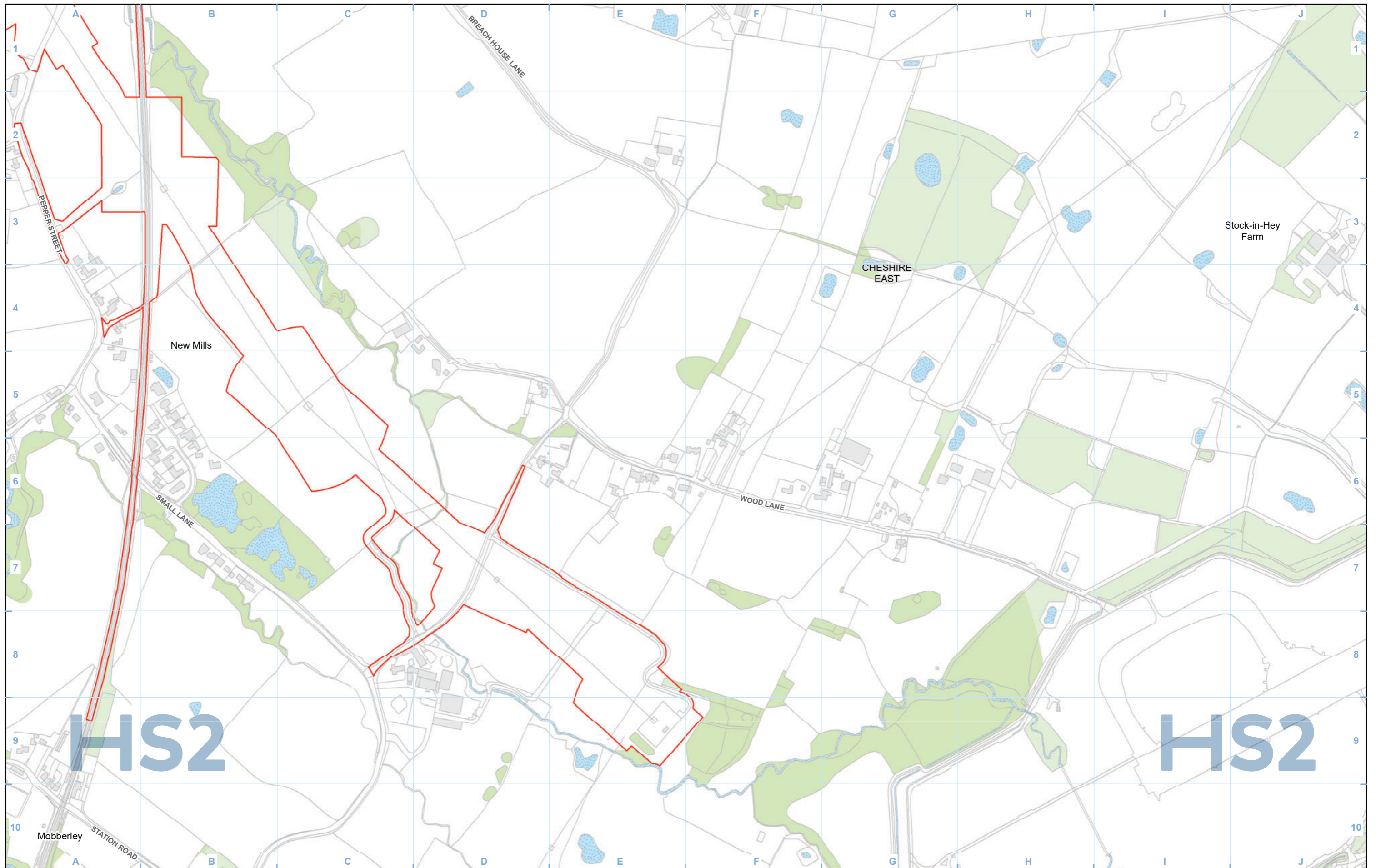
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Date: 12/08/21

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Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 	<ul style="list-style-type: none"> Breeding birds - survey extent
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For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-540-R1

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA06: Hulseheath to Manchester Airport

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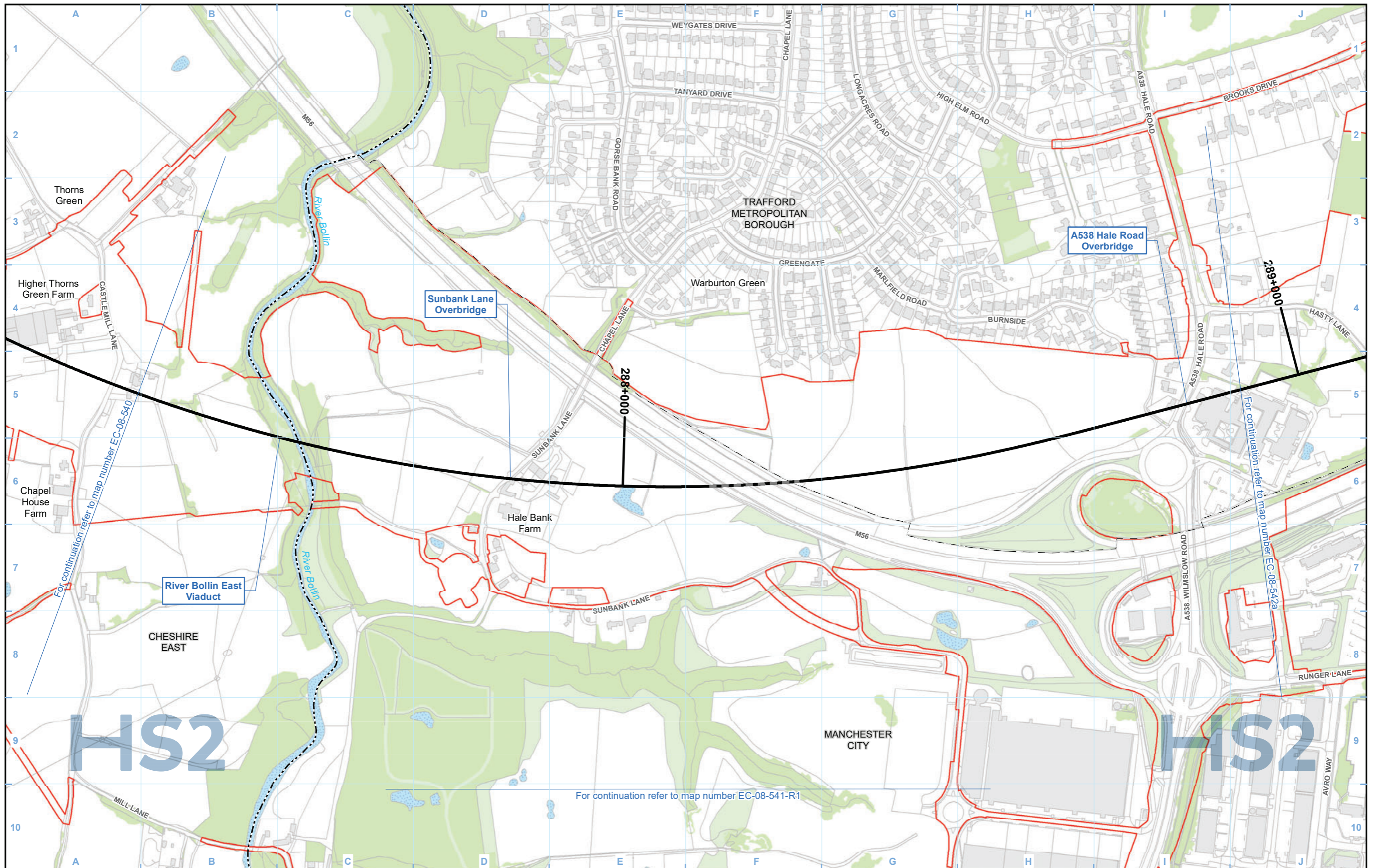
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Date: 12/08/21

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0 50 100 150 200 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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-541

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA06: Hulseheath to Manchester Airport

H2S2

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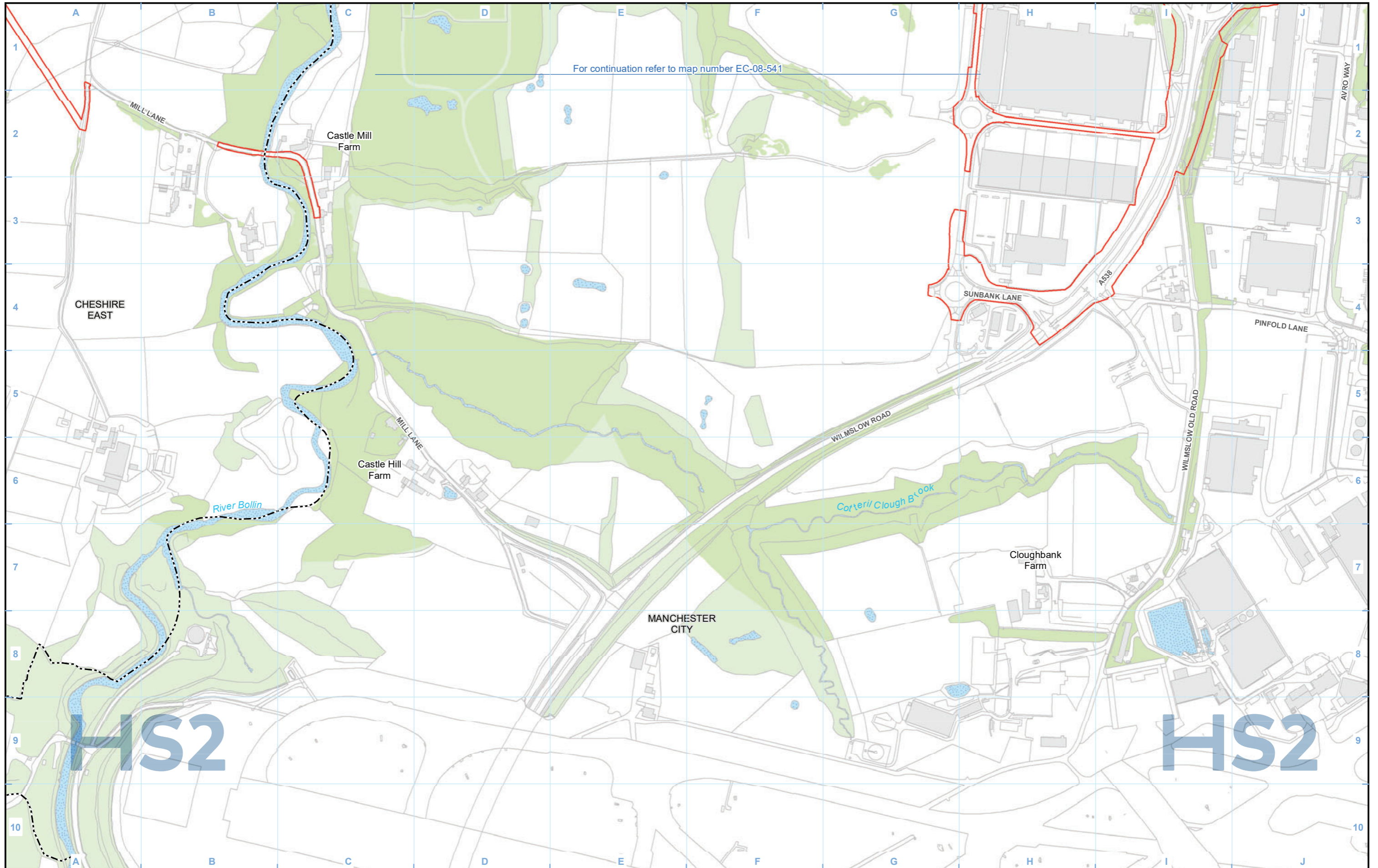
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Date: 12/08/21

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For continuation refer to map number EC-08-541

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-541-R1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA06:
Hulseheath to Manchester Airport

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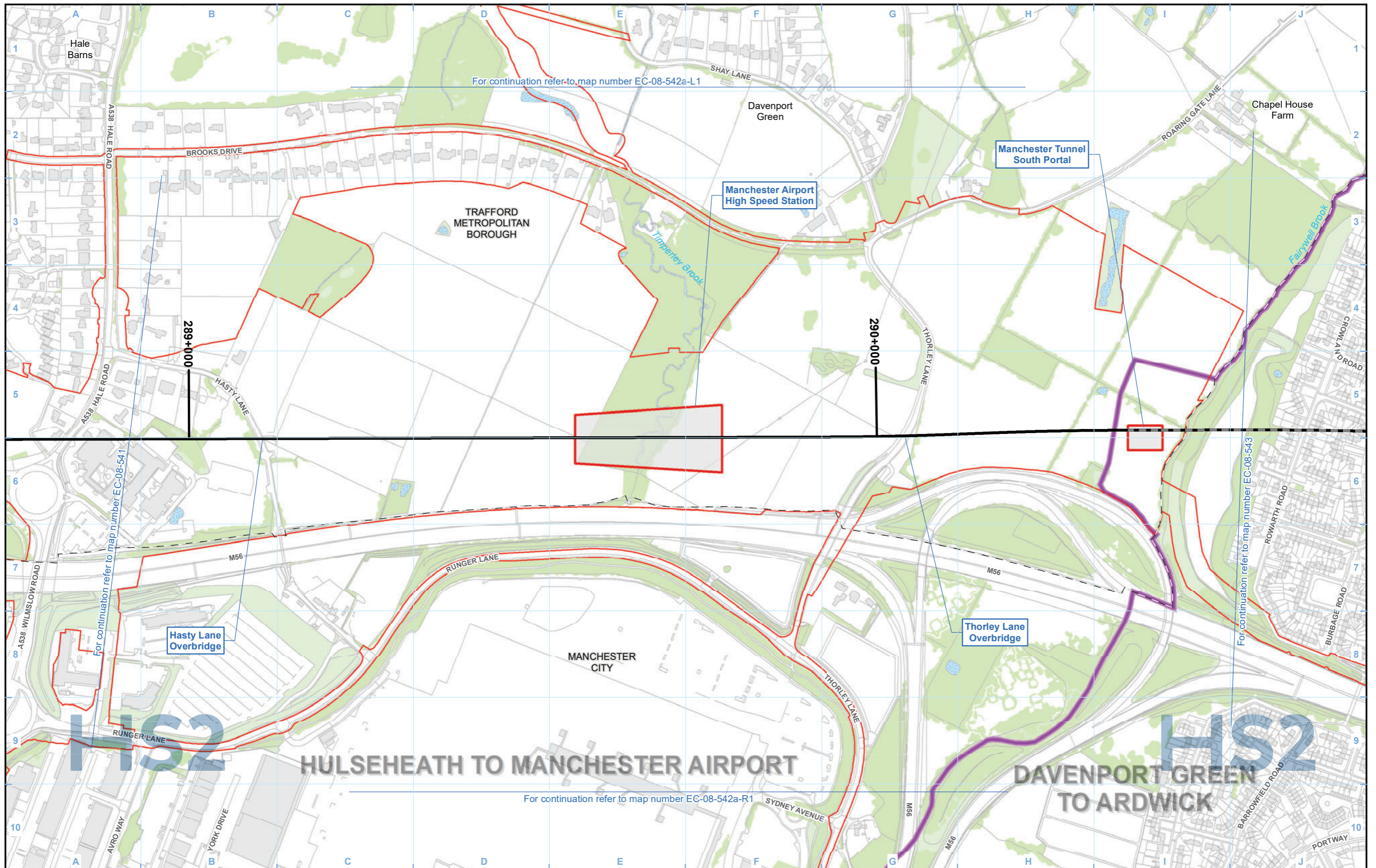
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Date: 12/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number: EC-08-542a

Map Name: Breeding Birds – Protected and Notable Species

Community Area MA06: Hulseheath to Manchester Airport

HS2

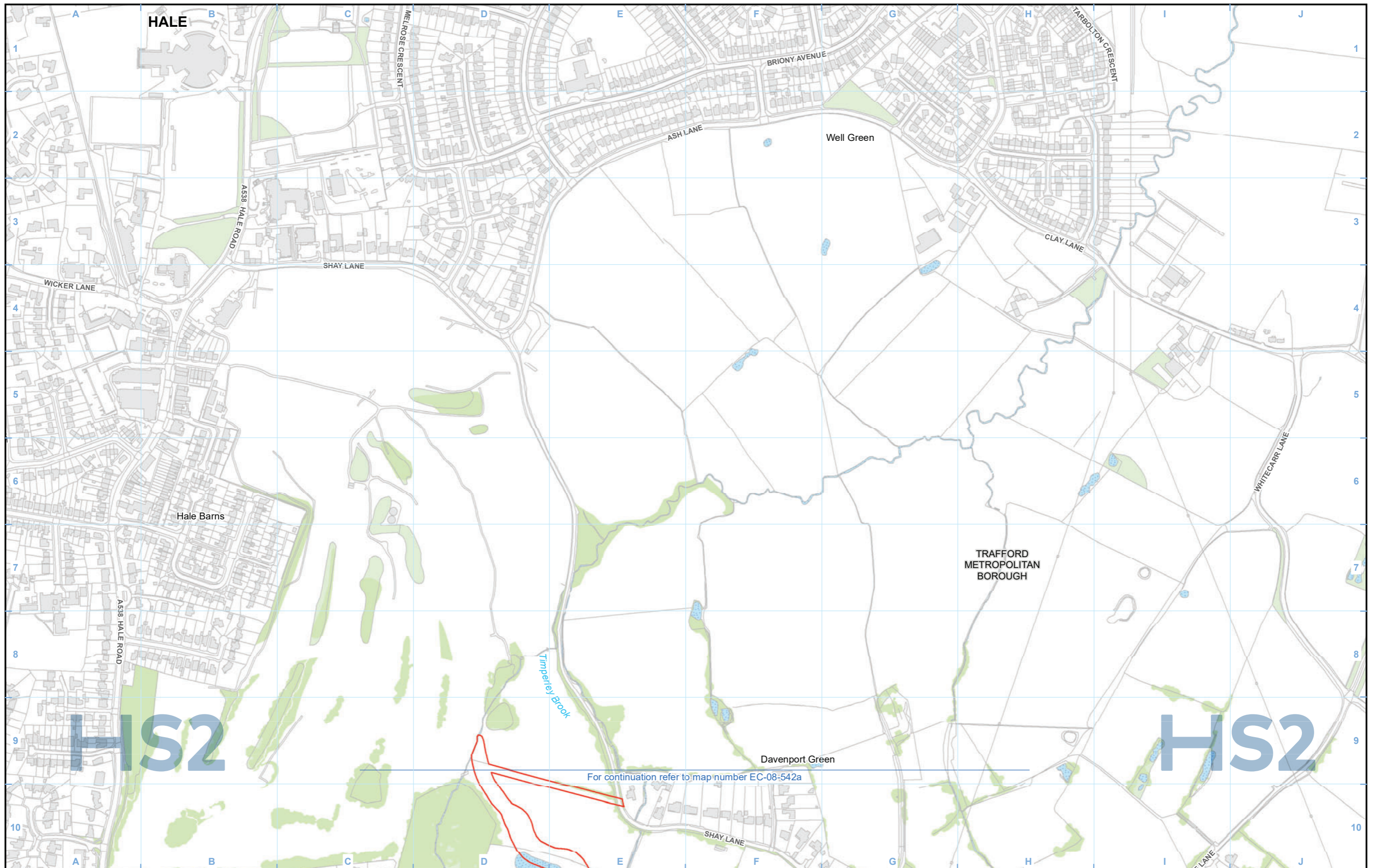
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Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 	<ul style="list-style-type: none"> Breeding birds - survey extent
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For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-542a-L1**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA06:
Hulseheath to Manchester Airport

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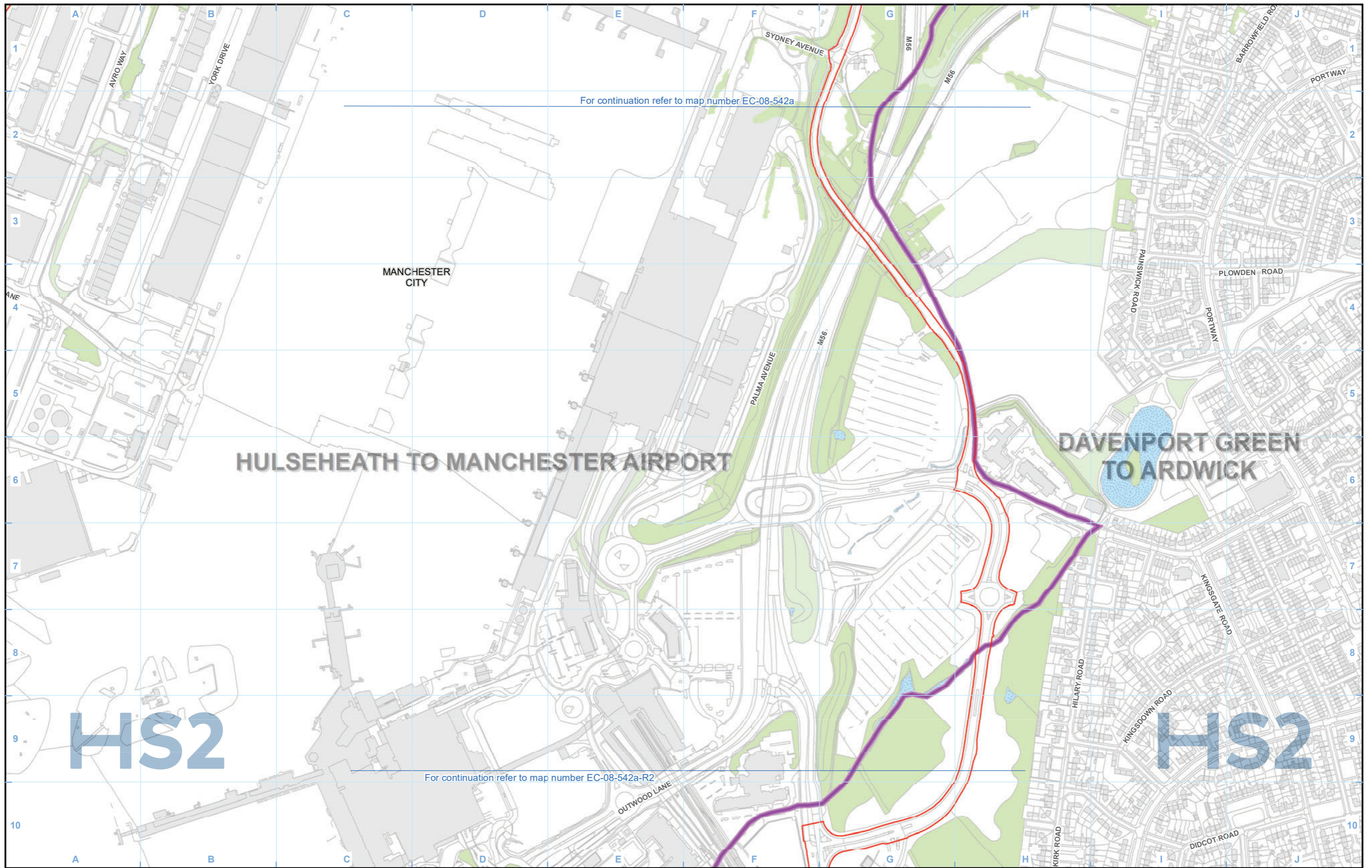
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Date: 12/08/21



For continuation refer to map number EC-08-542a

For continuation refer to map number EC-08-542a-R2

Legend	
Route in tunnel	Watercourse
Route on surface	Water body
Depot, station, headhouse or portal building	Woodland (verified by survey)
Land potentially required during construction	Species listed on Annex I of the Birds Directive
Community area boundary	Species listed on Schedule 1 of the Wildlife and Countryside Act
County boundary	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
District/Borough boundary	Birds of Conservation Concern
	Other notable species relevant to assessment
	Breeding birds - survey extent

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number	EC-08-542a-R1
Map Name	Breeding Birds – Protected and Notable Species
	Community Area MA06: Hulseheath to Manchester Airport

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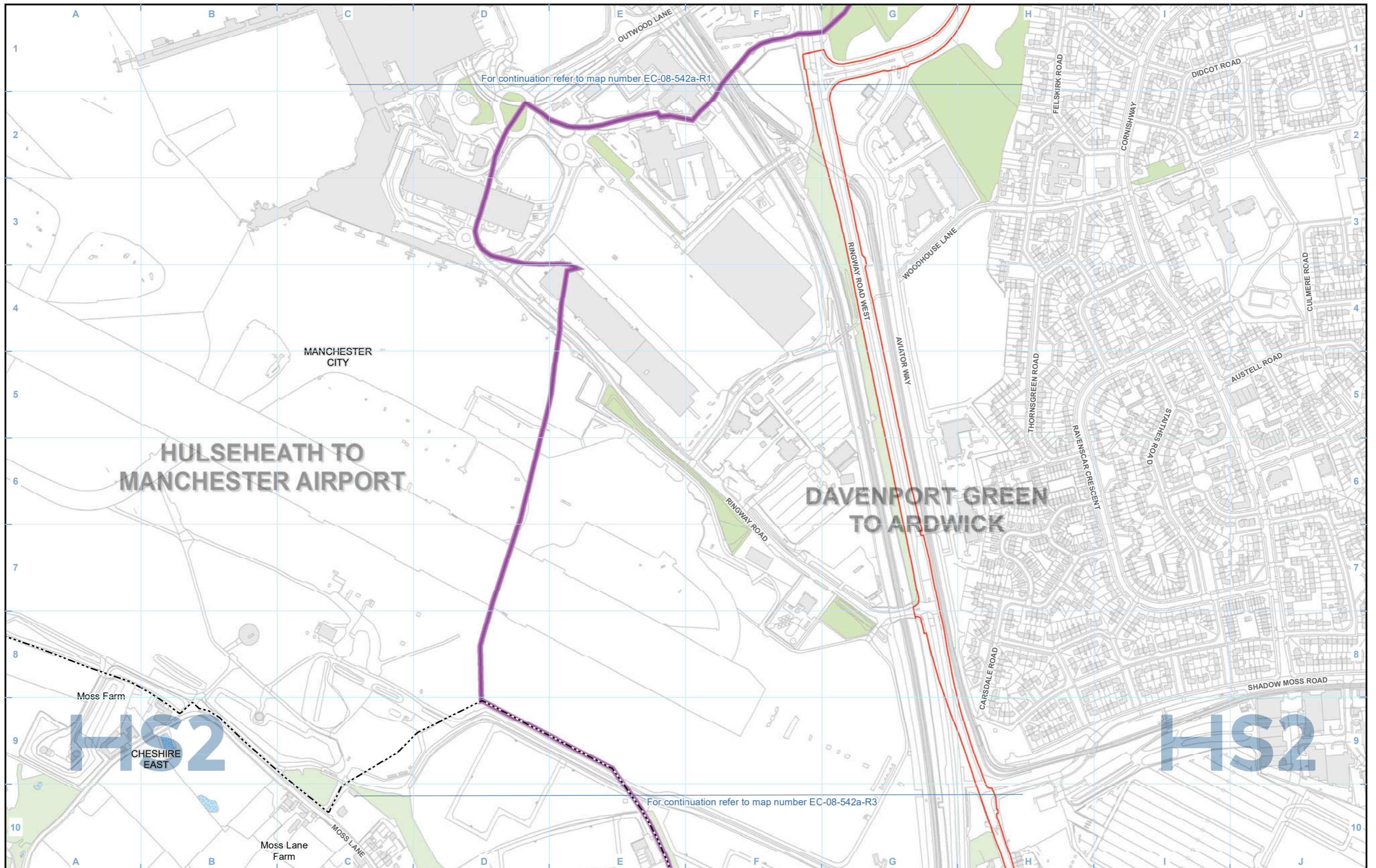
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number **EC-08-542a-R2**

Map Name **Breeding Birds – Protected and Notable Species**

Community Area MA06:
Hulseheath to Manchester Airport

HS2

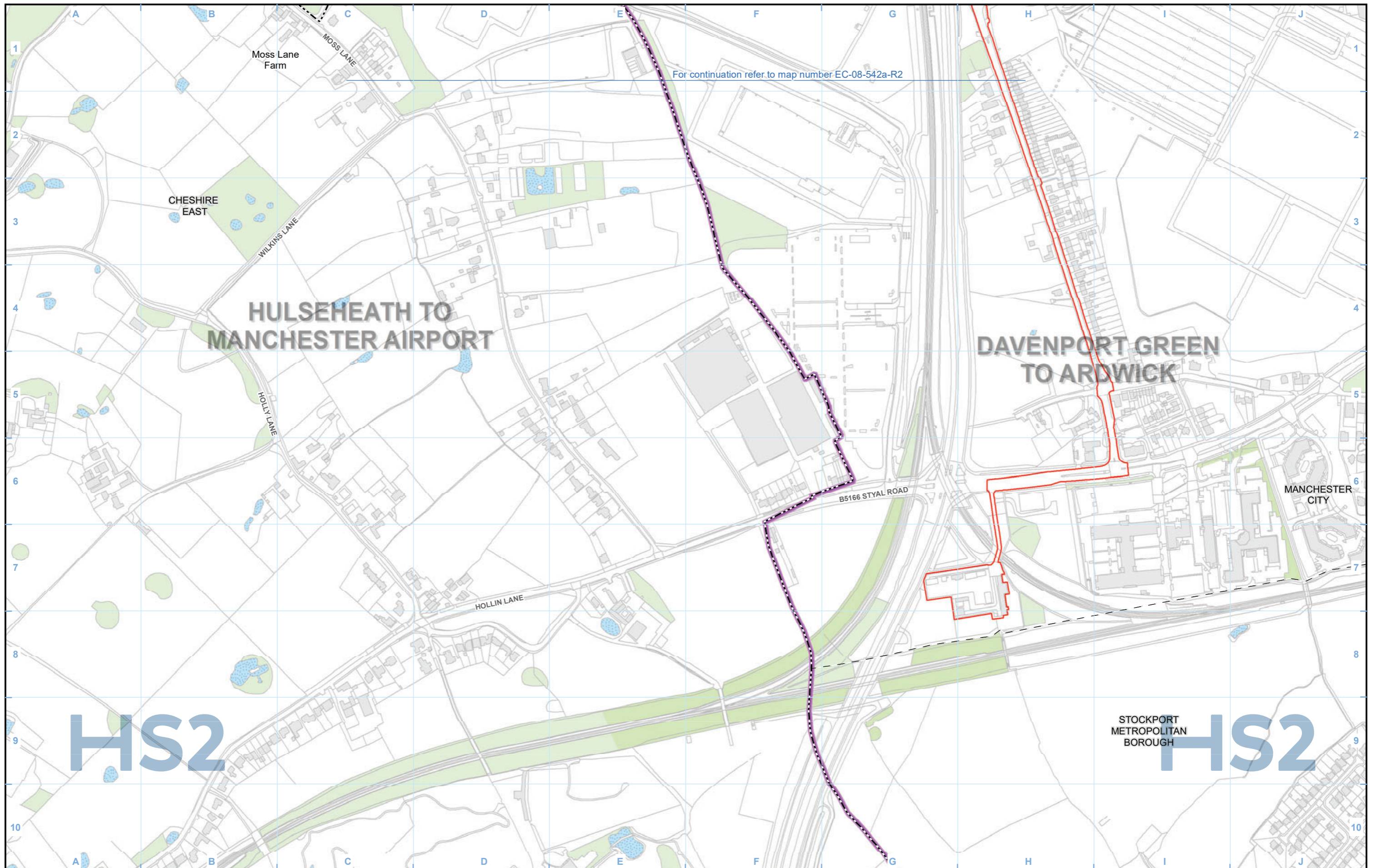
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-08 - Bird Species Legend Page

Map Number EC-08-542a-R3

Map Name Breeding Birds – Protected and Notable Species

Community Area MA06: Hulseheath to Manchester Airport

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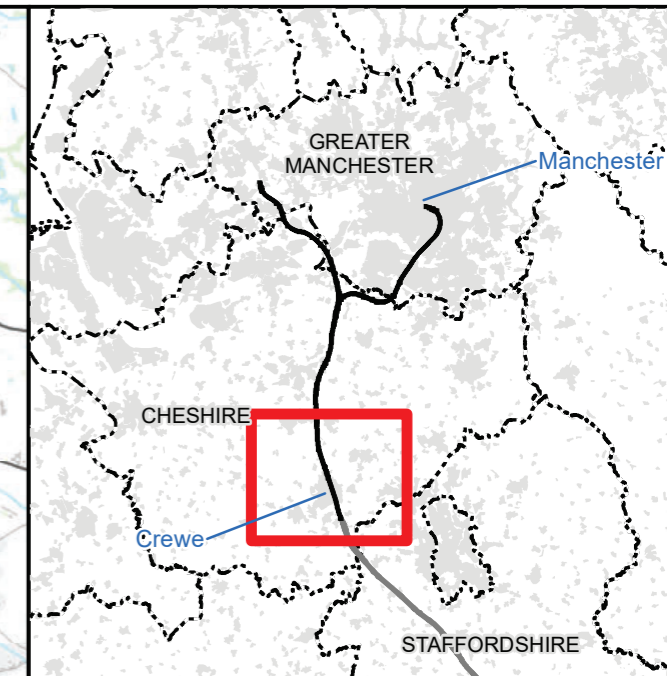
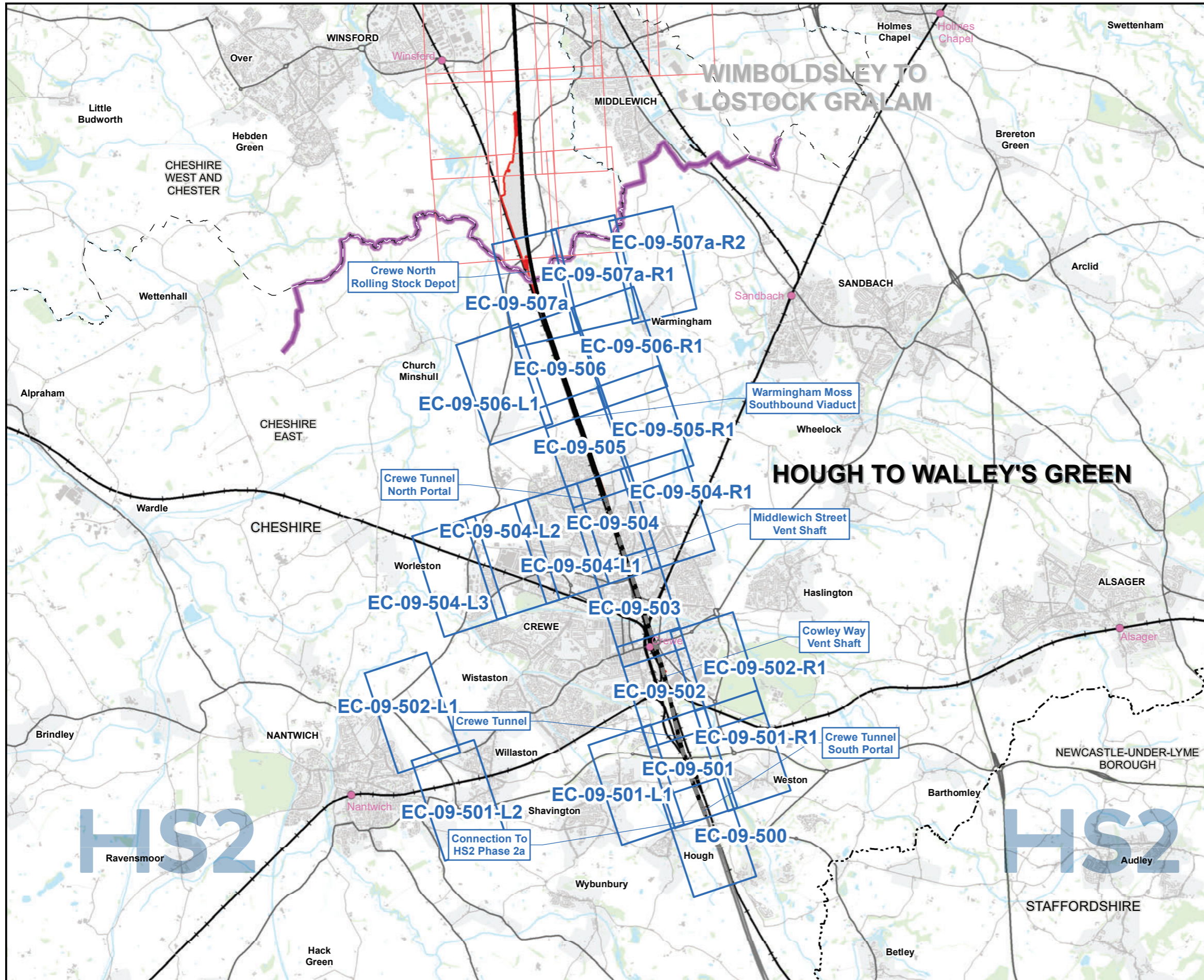
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Date: 12/08/21

High Speed Rail (Crewe – Manchester)

Background Information and Data

EC-09 - Wintering and Passage Birds - Protected and Notable Species



Map Series Information:

This map series shows records of protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.

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

Map Number EC-09-INDEX-MA01

Map Name Index Map of:
Wintering and Passage Birds –
Protected and Notable Species

Community Area MA01:
Hough to Walley's Green

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BTO SPECIES CODES

AC	Arctic Skua	D.	Dunnoek	K.	Kestrel	RN	Raven	SG	Starling
AE	Arctic Tern	EG	Egyptian Goose	KF	Kingfisher	RA	Razorbill	SD	Stock Dove
AV	Avocet	E.	Eider	KI	Kittiwake	RG	Red Grouse	SC	Stonechat
BO	Barn Owl	FP	Feral Pigeon	KN	Knot	KT	Red Kite	TN	Stone-curlew
BY	Barnacle Goose	ZL	Feral/hybrid goose	LM	Lady Amherst's Pheasant	ED	Red-backed Shrike	TM	Storm Petrel
BA	Bar-tailed Godwit	ZF	Feral/hybrid mallard type	LA	Lapland Bunting	RM	Red-breasted Merganser	SL	Swallow
BR	Bearded Tit	FF	Fieldfare	L.	Lapwing	RQ	Red-crested Pochard	SI	Swift
BS	Berwick's Swan	FC	Firecrest	TL	Leach's Petrel	FV	Red-footed Falcon	TO	Tawny Owl
BI	Bittern	F.	Fulmar	LB	Lesser Black-backed Gull	RL	Red-legged Partridge	T.	Teal
BK	Black Grouse	GA	Gadwall	LS	Lesser Spotted Woodpecker	NK	Red-necked Phalarope	TK	Temminck's Stint
TY	Black Guillemot	GX	Gannet	LW	Lesser Whitethroat	LR	Redpoll (Lesser)	TP	Tree Pipit
BX	Black Redstart	GW	Garden Warbler	LI	Linnet	RK	Redshank	TS	Tree Sparrow
BJ	Black Tern	GY	Garganey	ET	Little Egret	RT	Redstart	TC	Treecreeper
B.	Blackbird	GC	Goldcrest	LG	Little Grebe	RH	Red-throated Diver	TU	Tufted Duck
BC	Blackcap	EA	Golden Eagle	LU	Little Gull	RE	Redwing	TT	Turnstone
BH	Black-headed Gull	OL	Golden Oriole	LO	Little Owl	RB	Reed Bunting	TD	Turtle Dove
BN	Black-necked Grebe	GF	Golden Pheasant	LP	Little Ringed Plover	RW	Reed Warbler	TW	Twite
BW	Black-tailed Godwit	GP	Golden Plover	AF	Little Tern	RZ	Ring Ouzel	WA	Water Rail
BV	Black-throated Diver	GN	Goldeneye	LE	Long-eared Owl	RP	Ringed Plover	W.	Wheatear
BT	Blue Tit	GO	Goldfinch	LT	Long-tailed Tit	RI	Ring-necked Parakeet	WM	Whimbrel
BU	Bluethroat	GD	Goosander	MG	Magpie	R.	Robin	WC	Whinchat
BL	Brambling	GI	Goshawk	MA	Mallard	DV	Rock Dove (not feral)	WG	White-fronted Goose
BG	Brent Goose	GH	Grasshopper Warbler	MN	Mandarin Duck	RC	Rock Pipit	WH	Whitethroat
BF	Bullfinch	GB	Great Black-backed Gull	MX	Manx Shearwater	RO	Rook	WS	Whooper Swan
BZ	Buzzard	GG	Great Crested Grebe	MR	Marsh Harrier	RS	Roseate Tern	WN	Wigeon
CG	Canada Goose	ND	Great Northern Diver	MT	Marsh Tit	RY	Ruddy Duck	WT	Willow Tit
CP	Capercaillie	NX	Great Skua	MW	Marsh Warbler	RU	Ruff	WW	Willow Warbler
C.	Carrion Crow	GS	Great Spotted Woodpecker	MP	Meadow Pipit	SM	Sand Martin	OD	Wood Sandpiper
CW	Cetti's Warbler	GT	Great Tit	MU	Mediterranean Gull	SS	Sanderling	WO	Wood Warbler
CH	Chaffinch	GE	Green Sandpiper	ML	Merlin	TE	Sandwich Tern	WK	Woodcock
CC	Chiffchaff	G.	Green Woodpecker	M.	Mistle Thrush	VI	Savi's Warbler	WL	Woodlark
CF	Chough	GR	Greenfinch	MO	Montagu's Harrier	SQ	Scarlet Rosefinch	WP	Woodpigeon
CL	Cirl Bunting	GK	Greenshank	MH	Moorhen	SP	Scaup	WR	Wren
CT	Coal Tit	H.	Grey Heron	MS	Mute Swan	CY	Scottish Crossbill	WY	Wryneck
CD	Collared Dove	P.	Grey Partridge	N.	Nightingale	SW	Sedge Warbler	YW	Yellow Wagtail
CM	Common Gull	GV	Grey Plover	NJ	Nightjar	NS	Serin	Y.	Yellowhammer
CS	Common Sandpiper	GL	Grey Wagtail	NH	Nuthatch	SA	Shag		
CX	Common Scoter	GJ	Greylag Goose	OP	Osprey	SU	Shelduck		
CN	Common Tern	GU	Guillemot	OC	Oystercatcher	SX	Shorelark		
CO	Coot	FW	Guineafowl (Helmeted)	PX	Peafowl/Peacock	SE	Short-eared Owl		
CA	Cormorant	HF	Hawfinch	PE	Peregrine	SV	Shoveler		
CB	Corn Bunting	HH	Hen Harrier	PH	Pheasant	SK	Siskin		
CE	Corncrake	HG	Herring Gull	PF	Pied Flycatcher	S.	Skylark		
CI	Crested Tit	HY	Hobby	PW	Pied Wagtail	SZ	Slavonian Grebe		
CR	Crossbill (Common)	HZ	Honey Buzzard	PG	Pink-footed Goose	SN	Snipe		
CK	Cuckoo	HC	Hooded Crow	PT	Pintail	SB	Snow Bunting		
CU	Curlew	HP	Hoopoe	PO	Pochard	ST	Song Thrush		
DW	Dartford Warbler	HM	House Martin	PM	Ptarmigan	SH	Sparrowhawk		
DI	Dipper	HS	House Sparrow	PU	Puffin	AK	Spotted Crake		
DO	Dotterel	JD	Jackdaw	PS	Purple Sandpiper	SF	Spotted Flycatcher		
DN	Dunlin	J.	Jay	Q.	Quail	DR	Spotted Redshank		

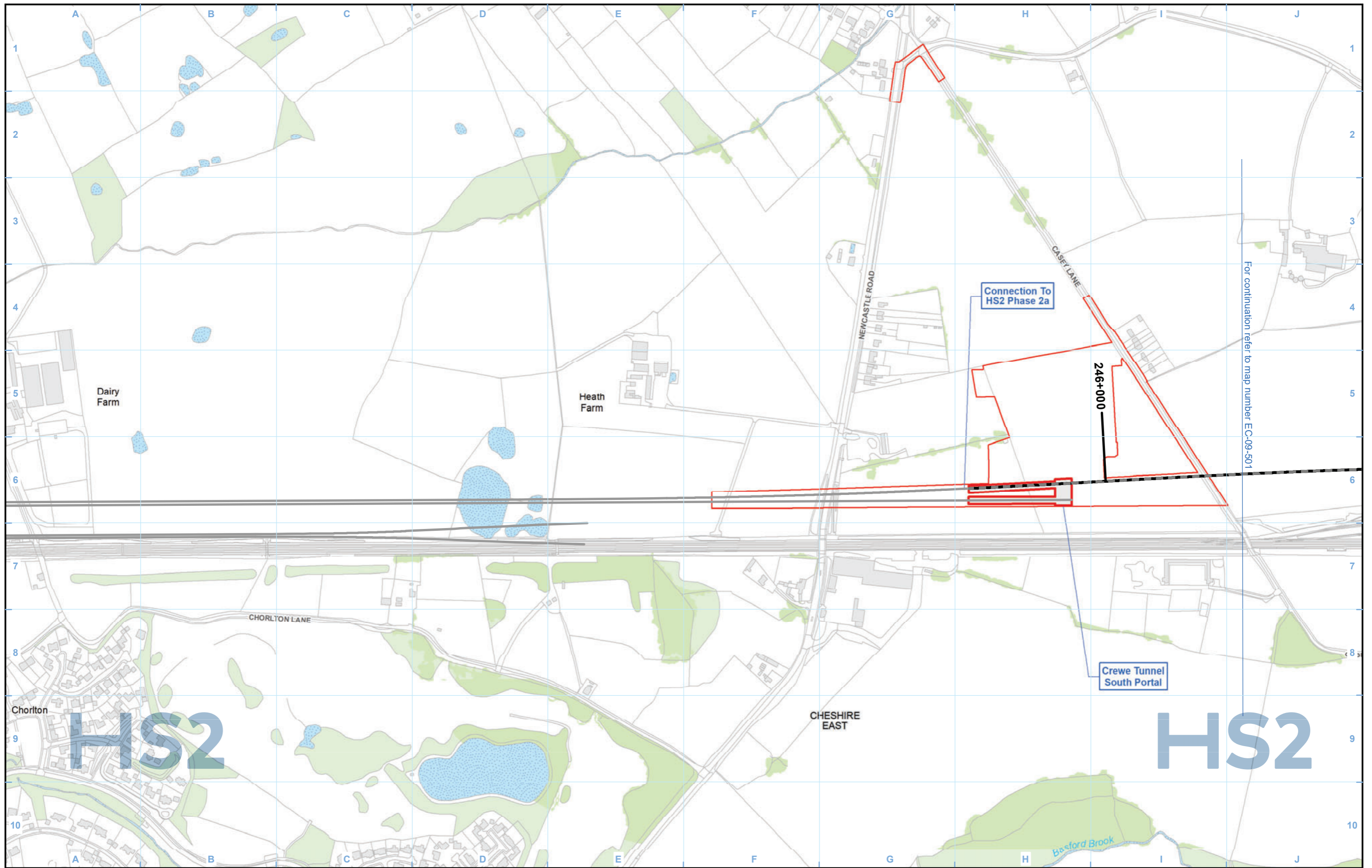
Map Number	EC-09 Legend
Map Name	EC-09 BTO Bird Species Legend

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For continuation refer to map number EC-09-501

Connection To
HS2 Phase 2a

246+000

Crewe Tunnel
South Portal

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number
EC-09-500

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area MA01:
Hough to Walley's Green

HS2

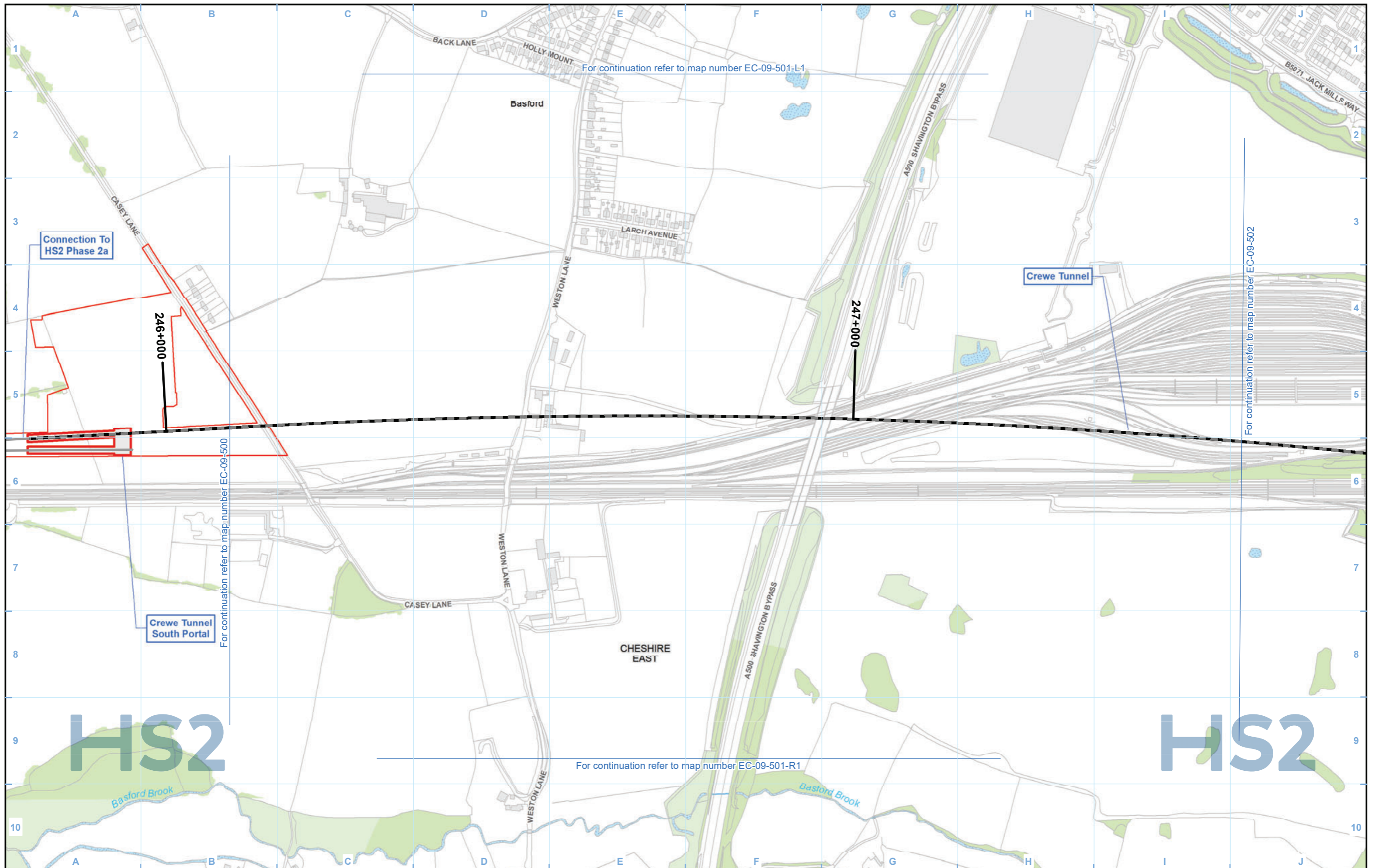
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Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number EC-09-501

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area MA01:
Hough to Walley's Green

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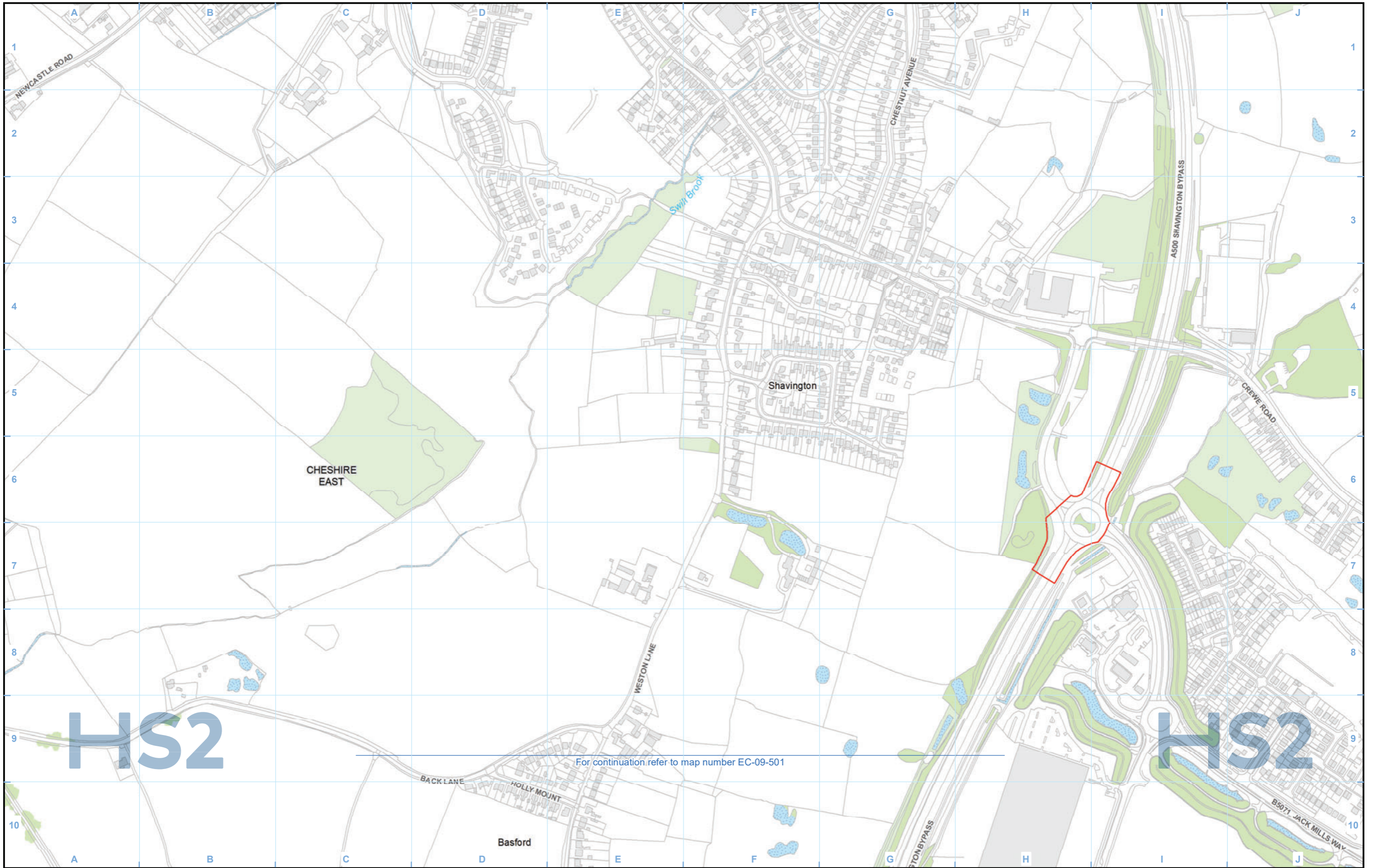
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For continuation refer to map number EC-09-501

Legend			

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number	EC-09-501-L1
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area	MA01: Hough to Walley's Green

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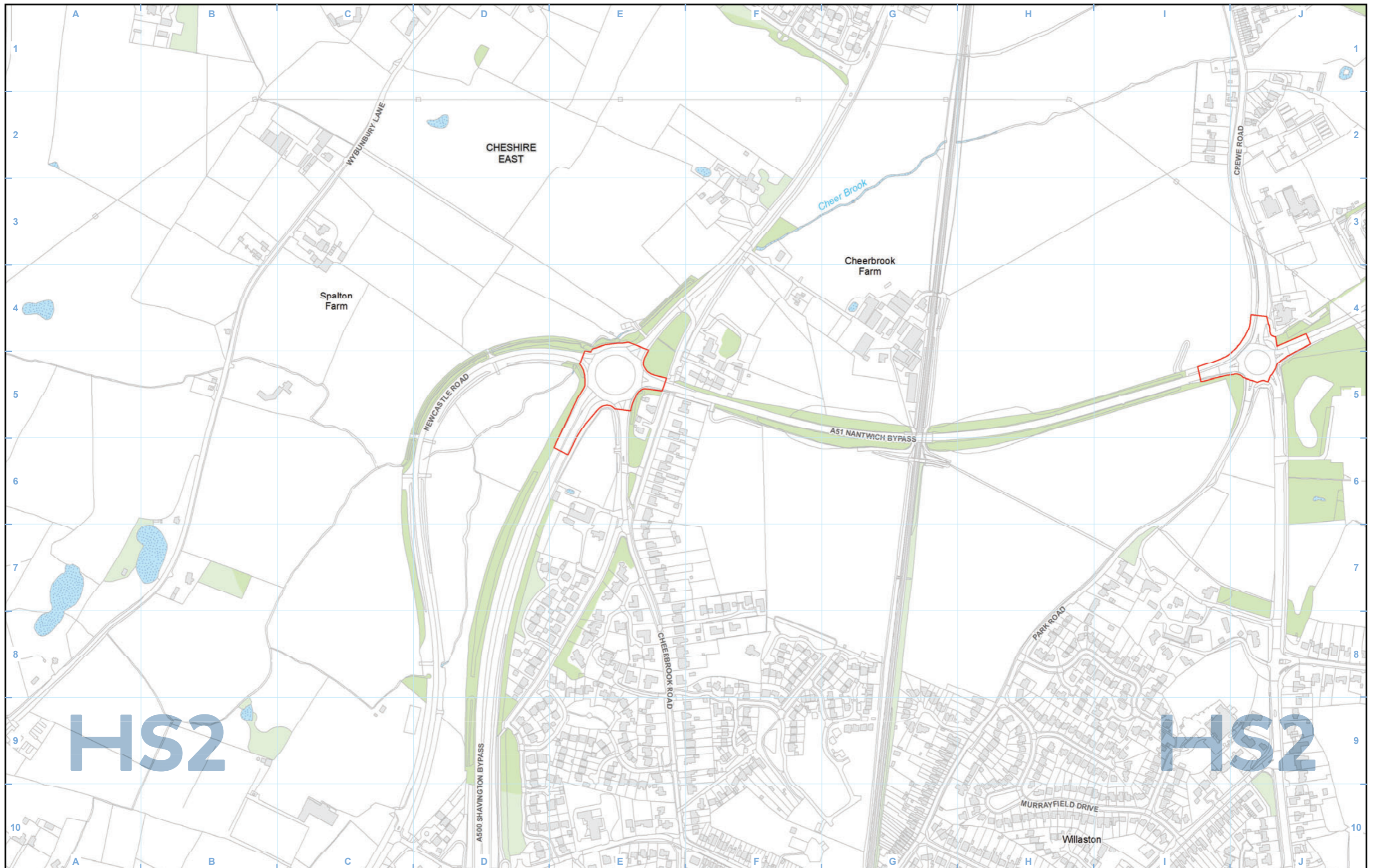
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Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-501-L2

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA01:
Hough to Walley's Green

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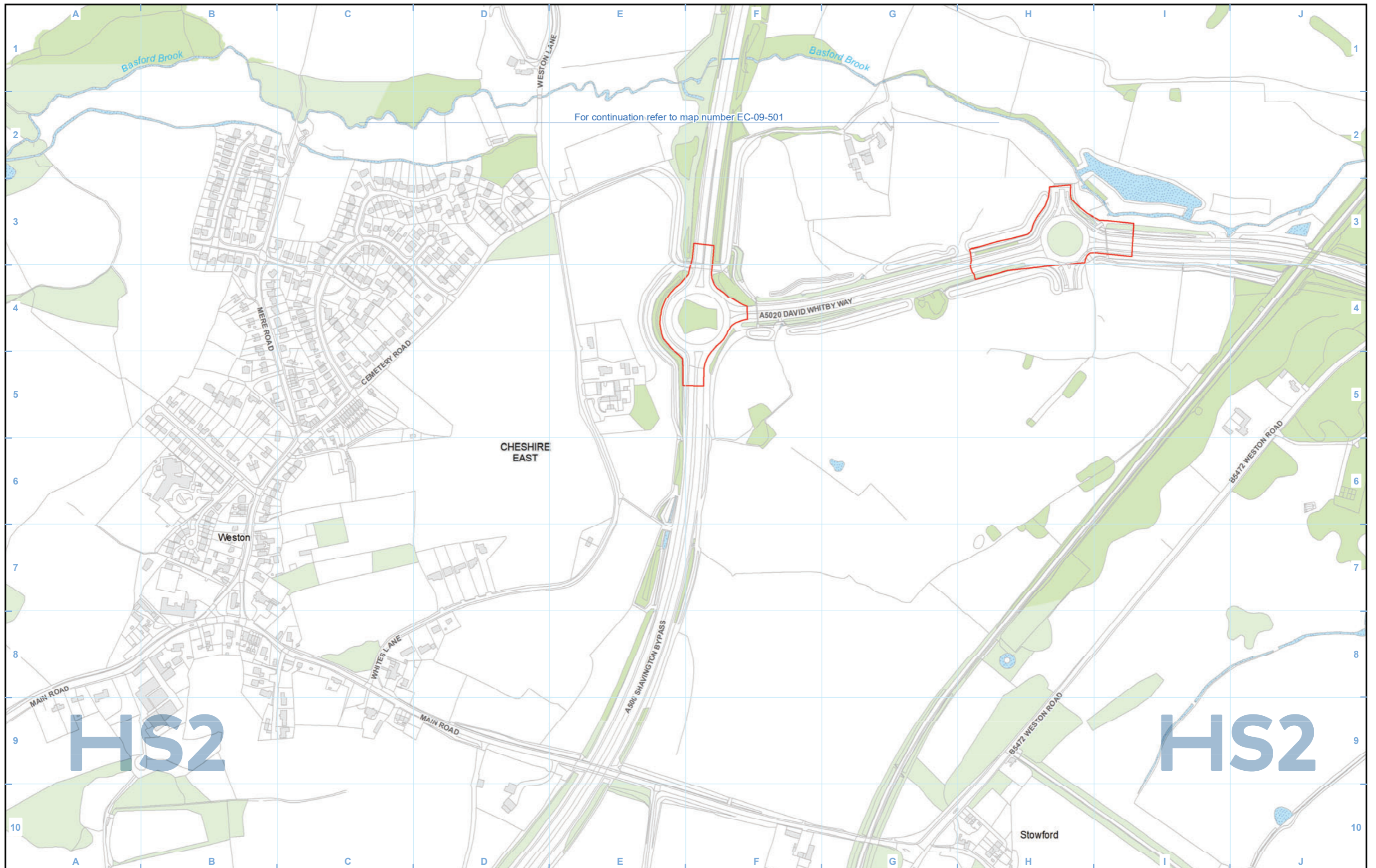
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For continuation refer to map number EC-09-501

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-501-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

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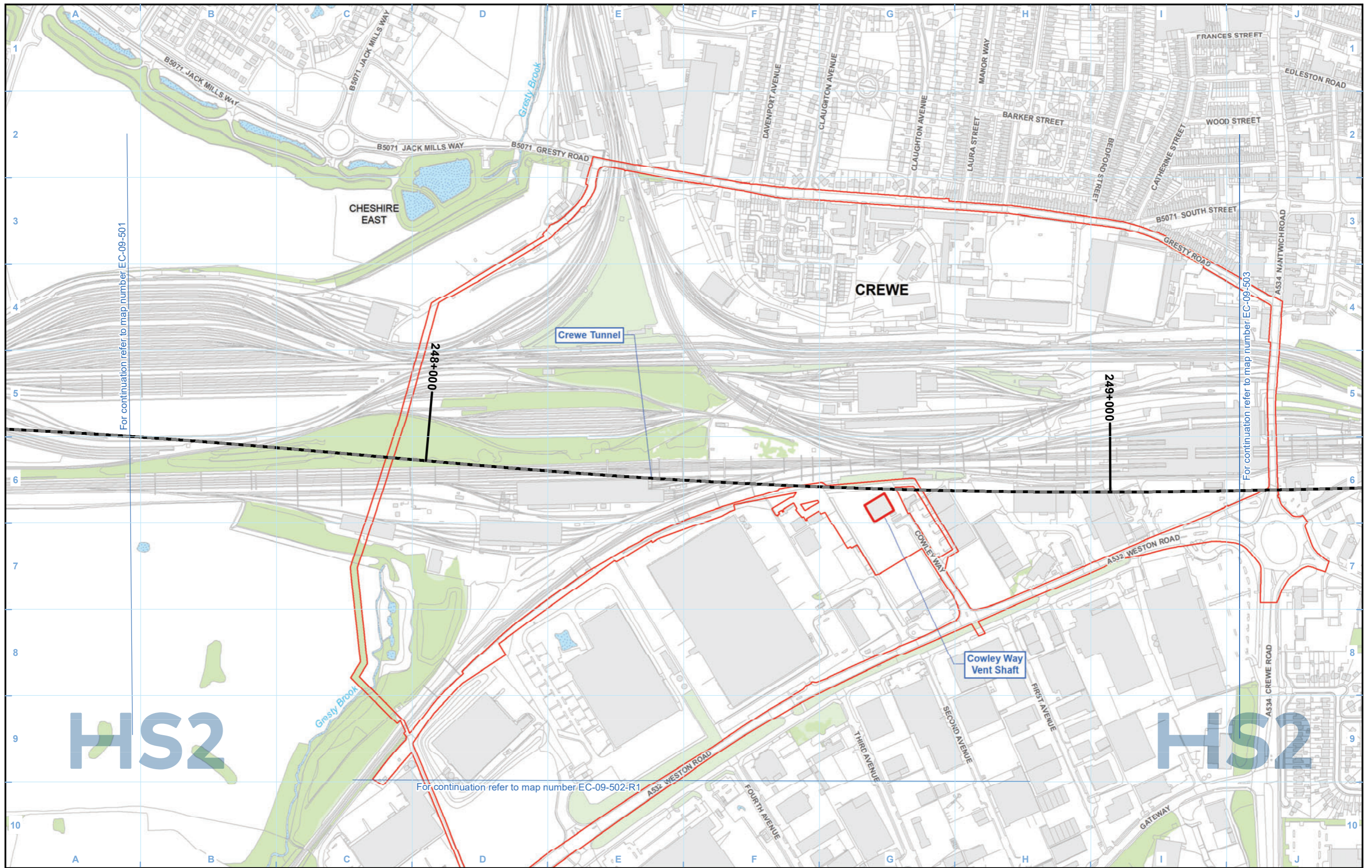
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For continuation refer to map number EC-09-501

For continuation refer to map number EC-09-503

For continuation refer to map number EC-09-502-R1

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-502

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

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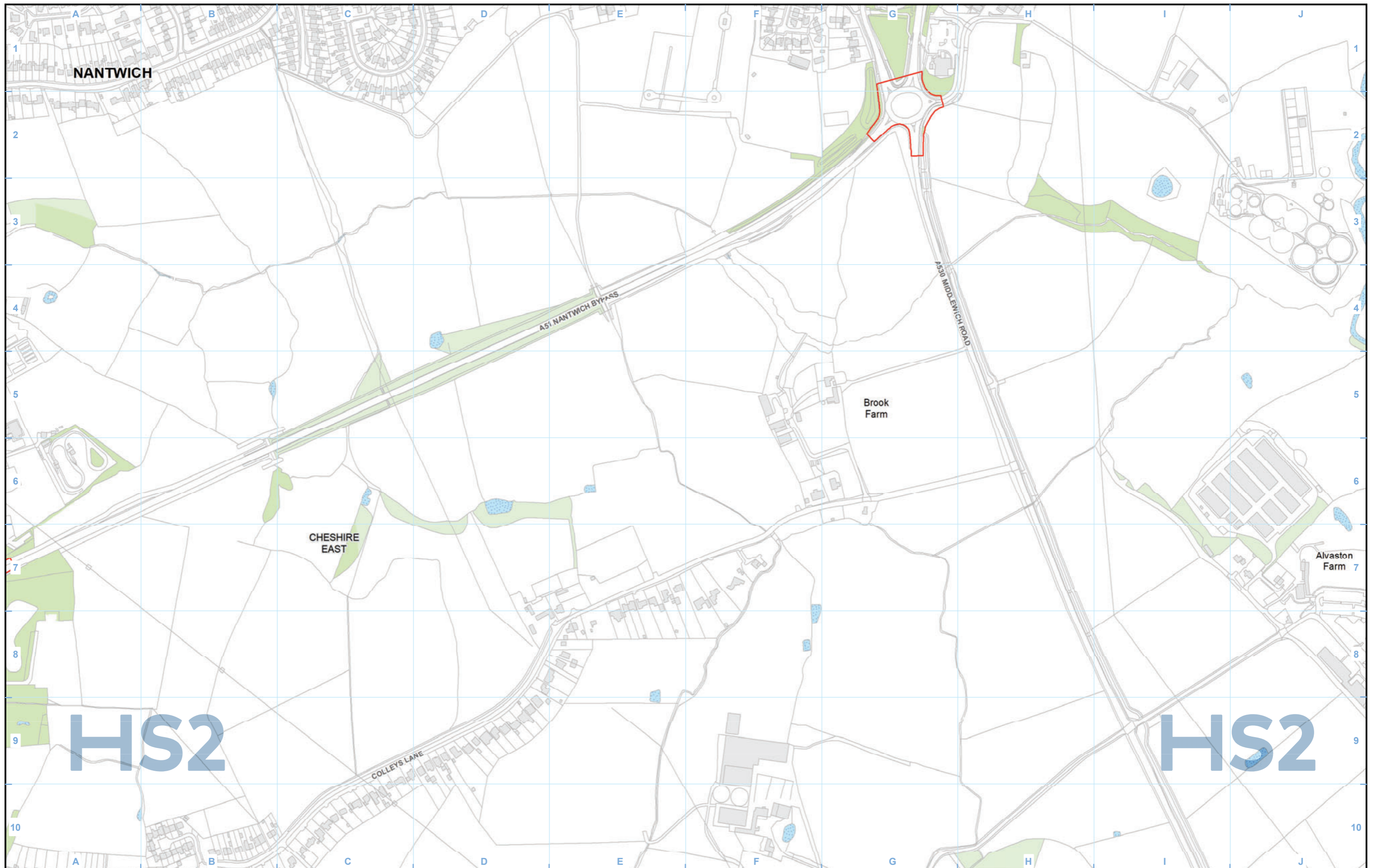
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Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-502-L1

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA01:
Hough to Walley's Green

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For continuation refer to map number EC-09-502

Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-502-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

HS2

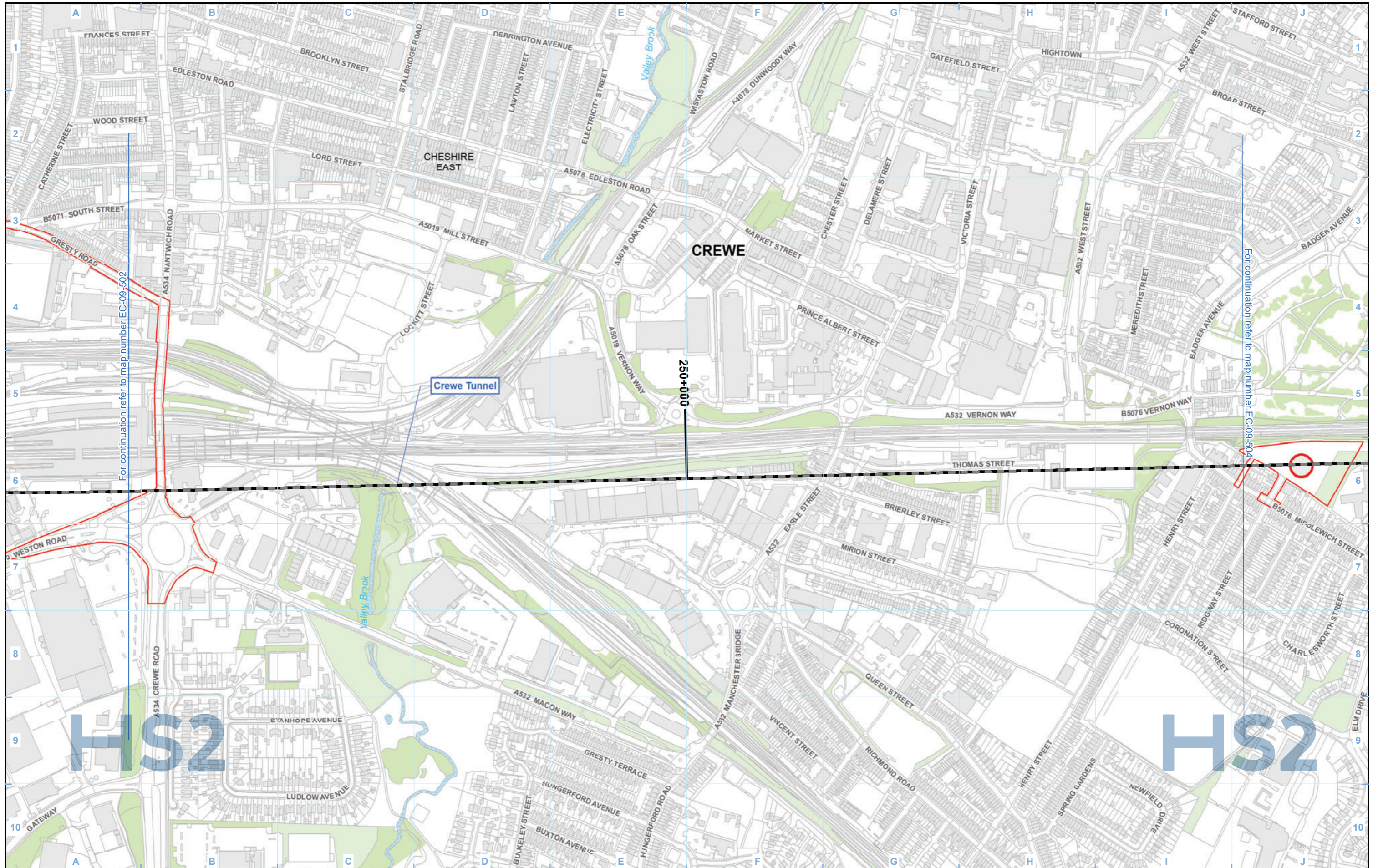
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For continuation refer to map number EC-09-502

For continuation refer to map number EC-09-504

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number EC-09-503

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

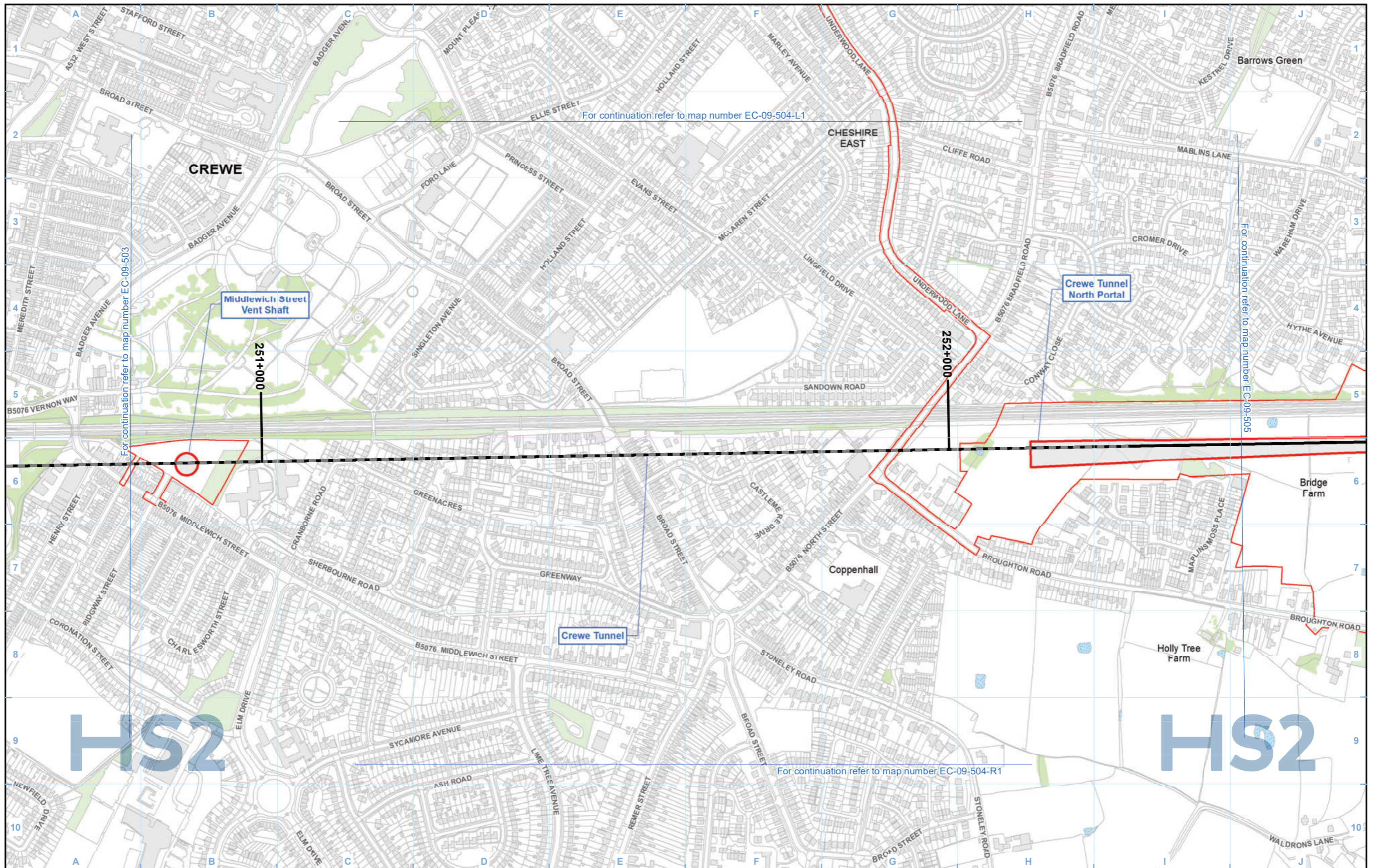
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Legend

- 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
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

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Map Number: EC-09-504

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

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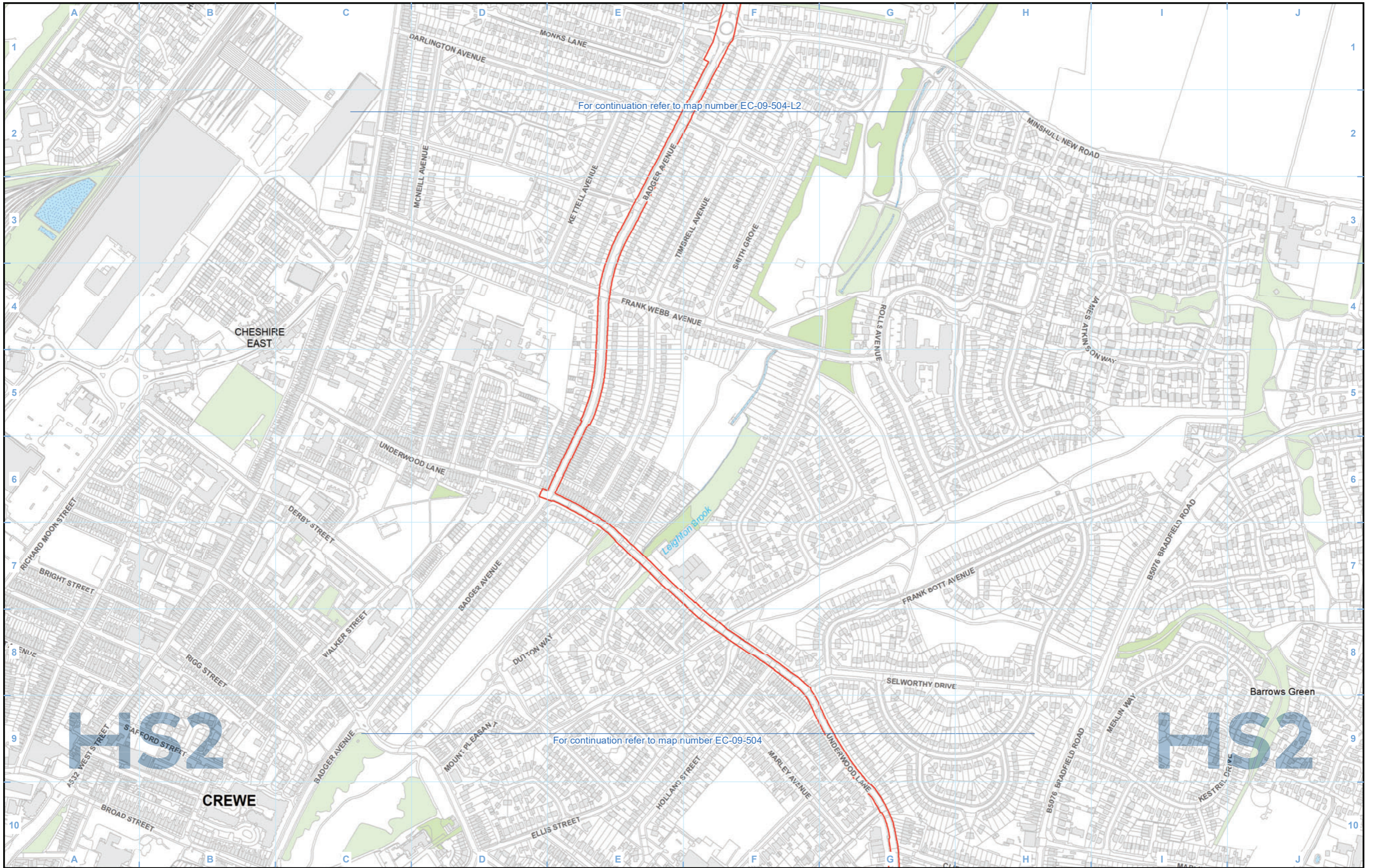
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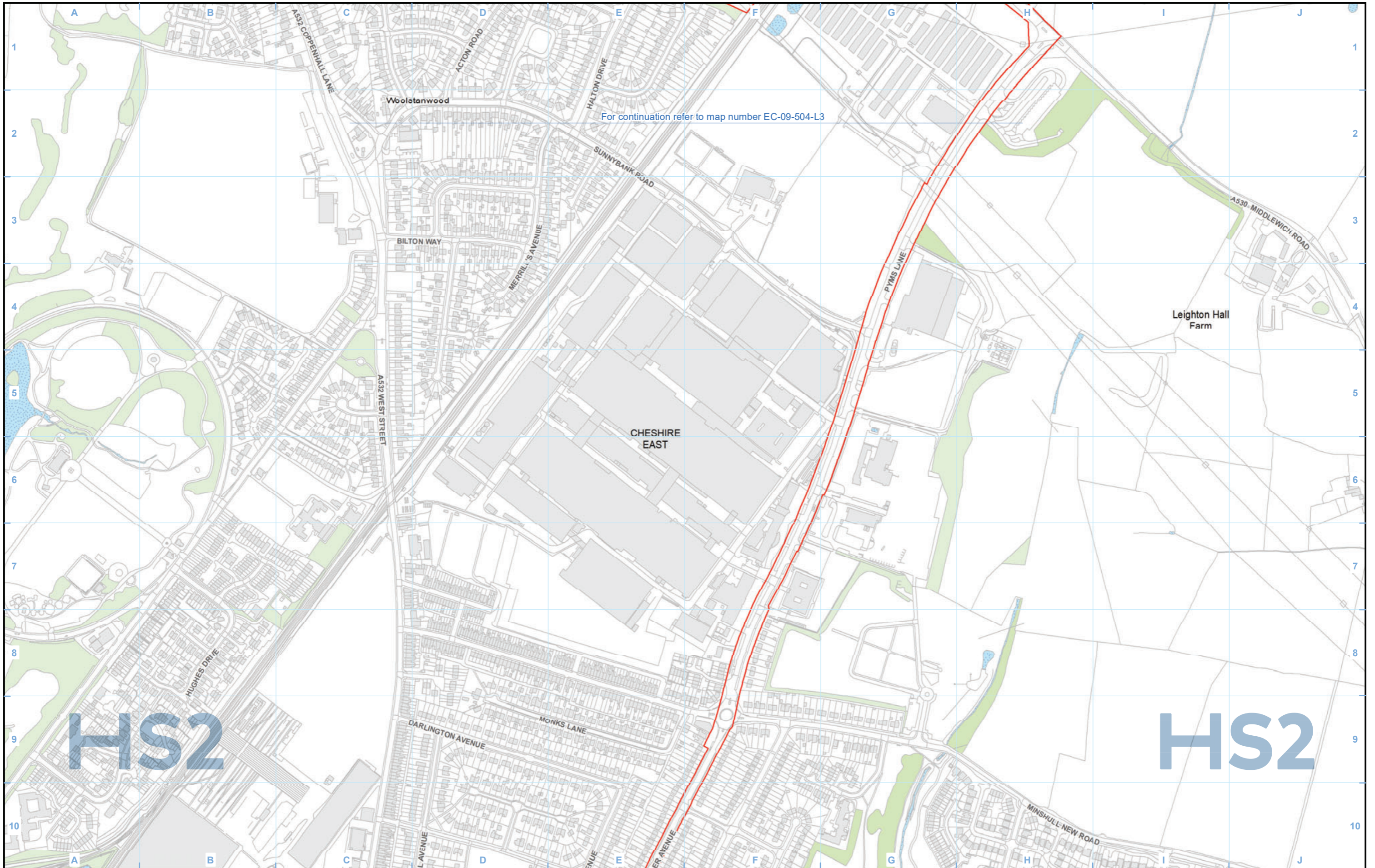


For continuation refer to map number EC-09-504-L2

For continuation refer to map number EC-09-504

Legend <ul style="list-style-type: none"> 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) Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Species listed on Schedule 1 of the Wildlife and Countryside Act Wintering & passage birds - survey extent 		<p>Map Number EC-09-504-L1</p> <p>Map Name Wintering and Passage Birds – Protected and Notable Species</p> <p>Community Area MA01: Hough to Walley's Green</p>	<p>HS2</p> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2021 OS 100049190</p> <p>Scale at A3: 1:5,000</p> <p>Doc Number: 2DE01-MWJ-EV-MAP-M000-003277-P01</p> <p>Date: 12/08/21</p>
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For full legend please refer to EC-09 - Bird Species Legend Page



For continuation refer to map number EC-09-504-L3

HS2

HS2

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-504-L2**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-504-L3**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

HS2

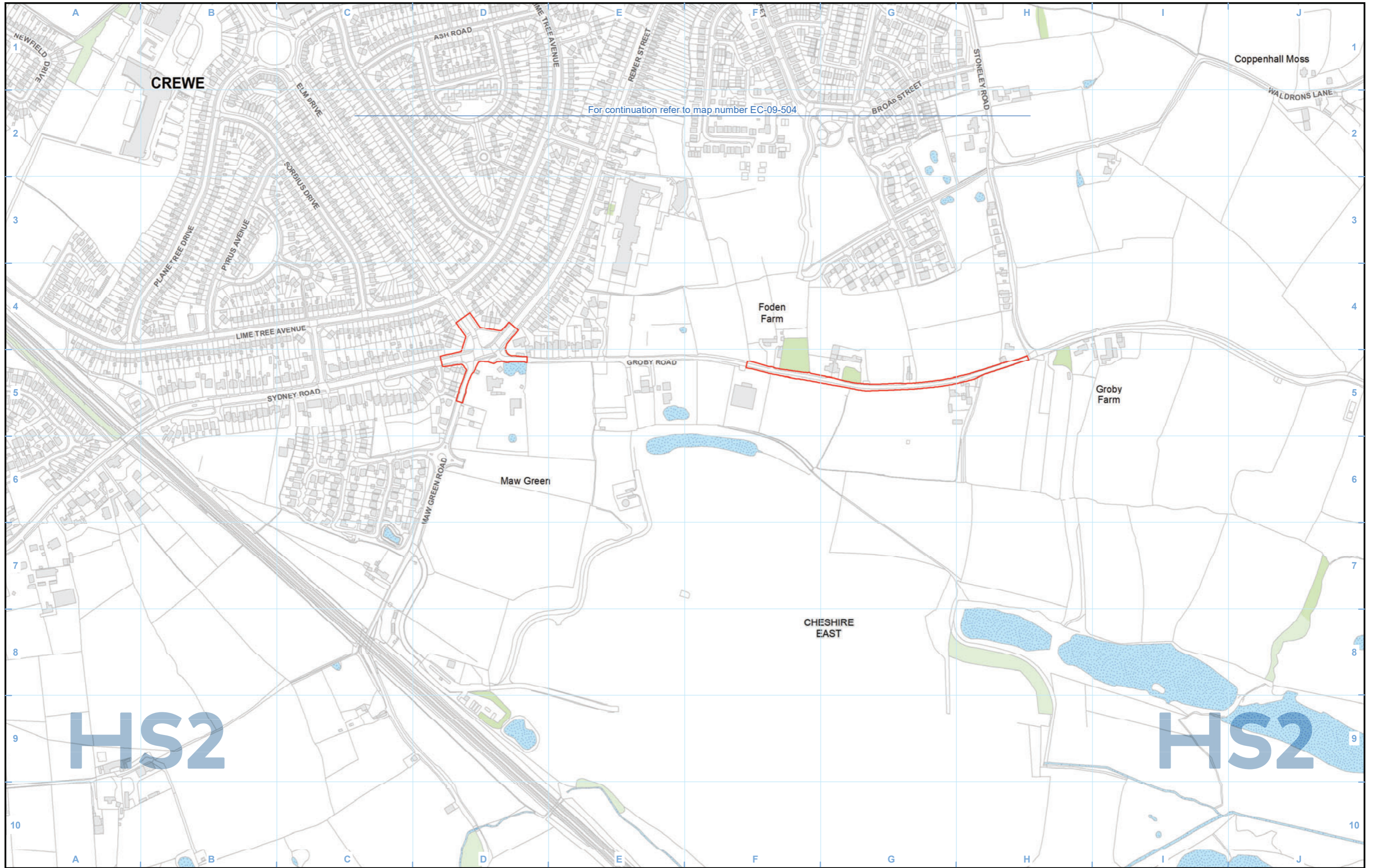
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-504-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

HS2

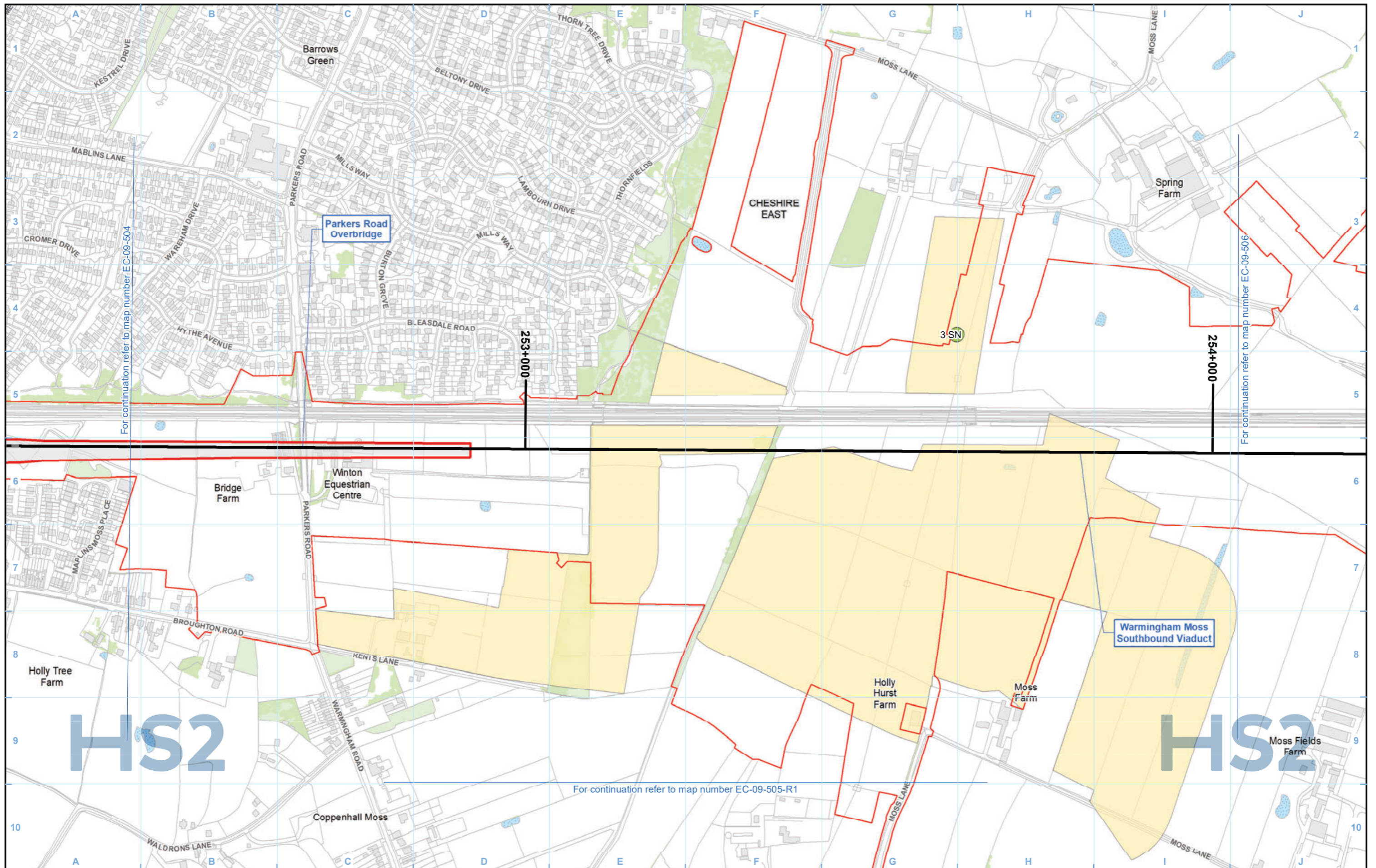
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For continuation refer to map number EC-09-504

For continuation refer to map number EC-09-506

253+000

254+000

For continuation refer to map number EC-09-505-R1

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number EC-09-505

Map Name Winting and Passage Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

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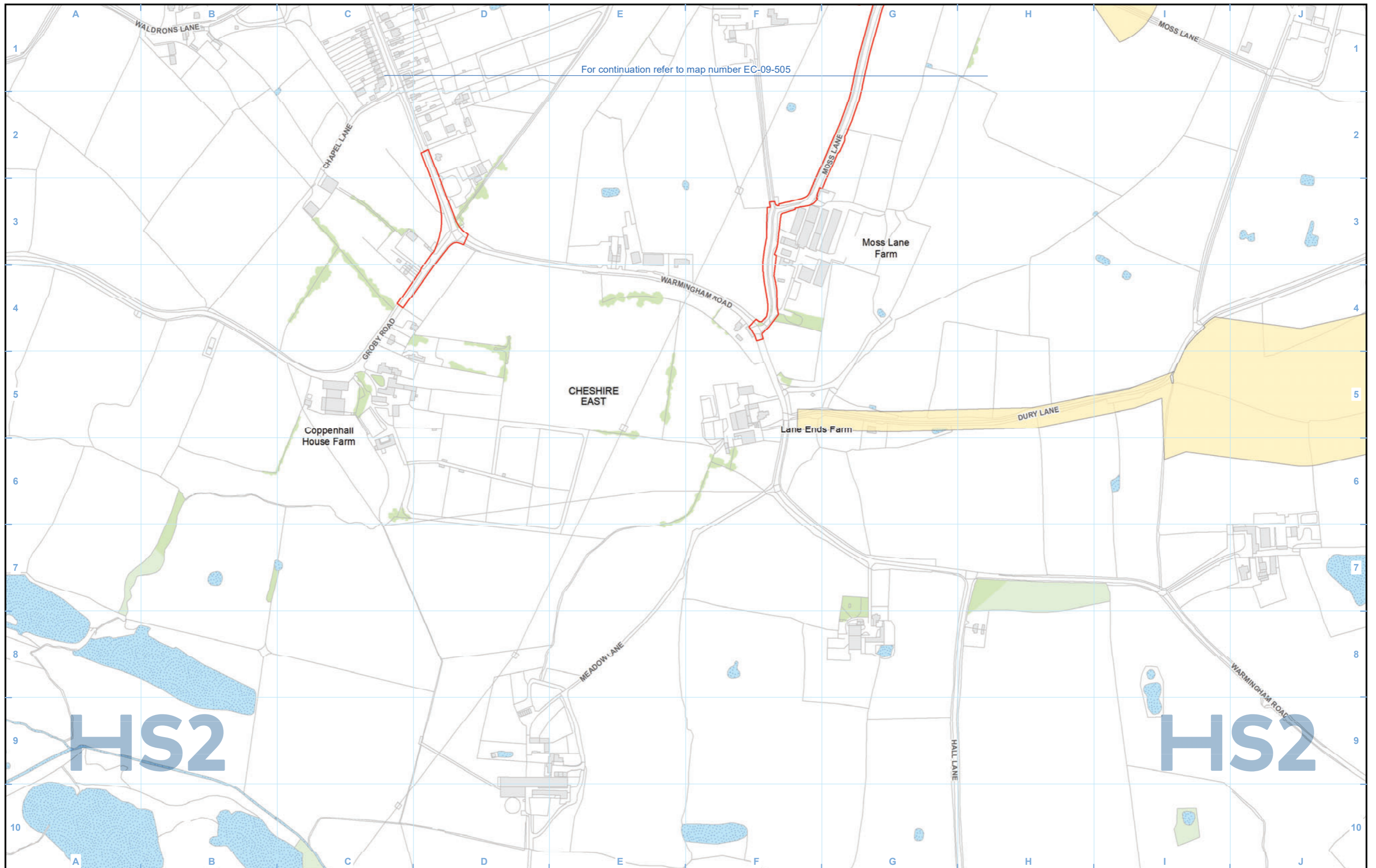
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-505-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

HS2

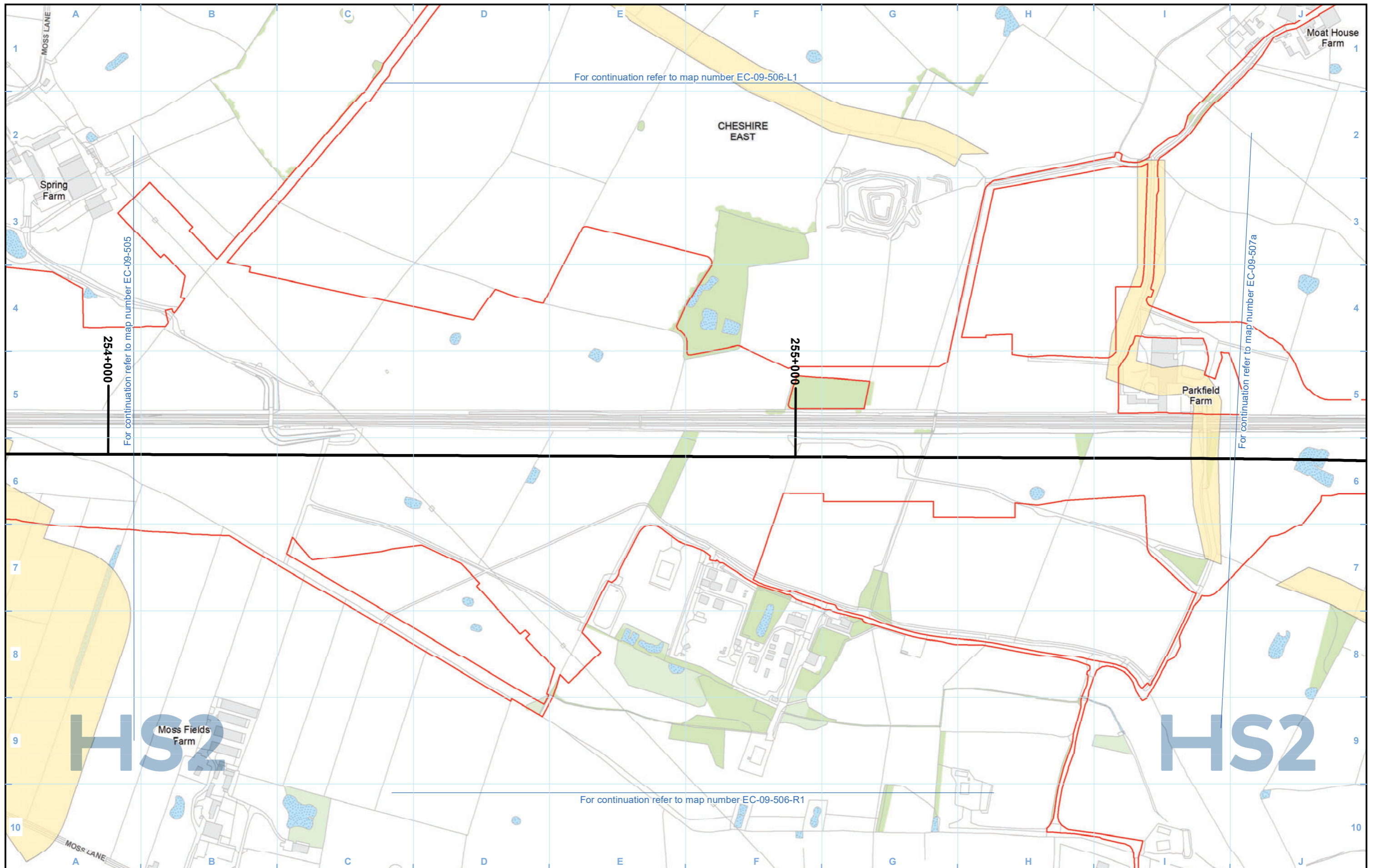
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Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-506

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

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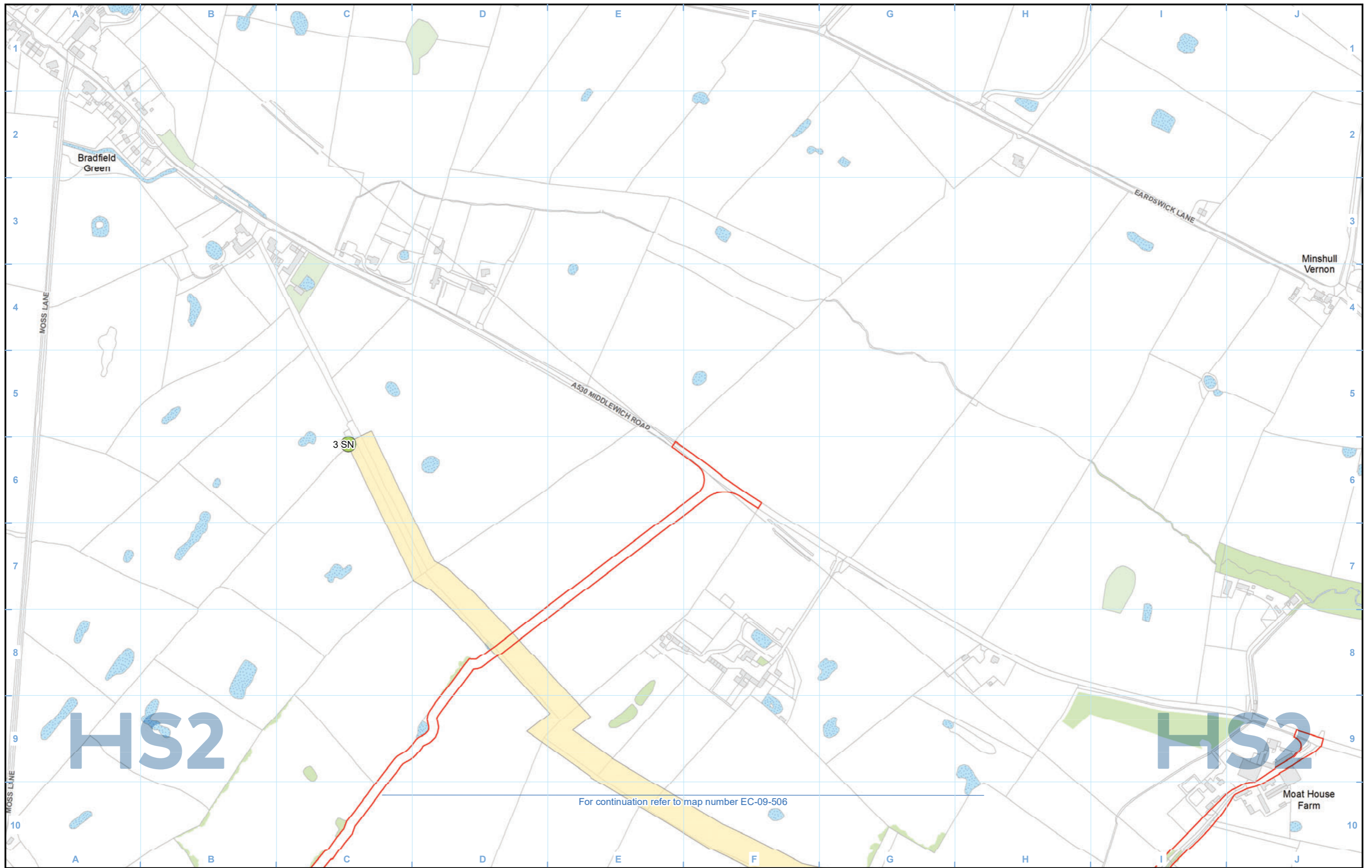
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For continuation refer to map number EC-09-506

Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-506-L1

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA01:
Hough to Walley's Green

HS2

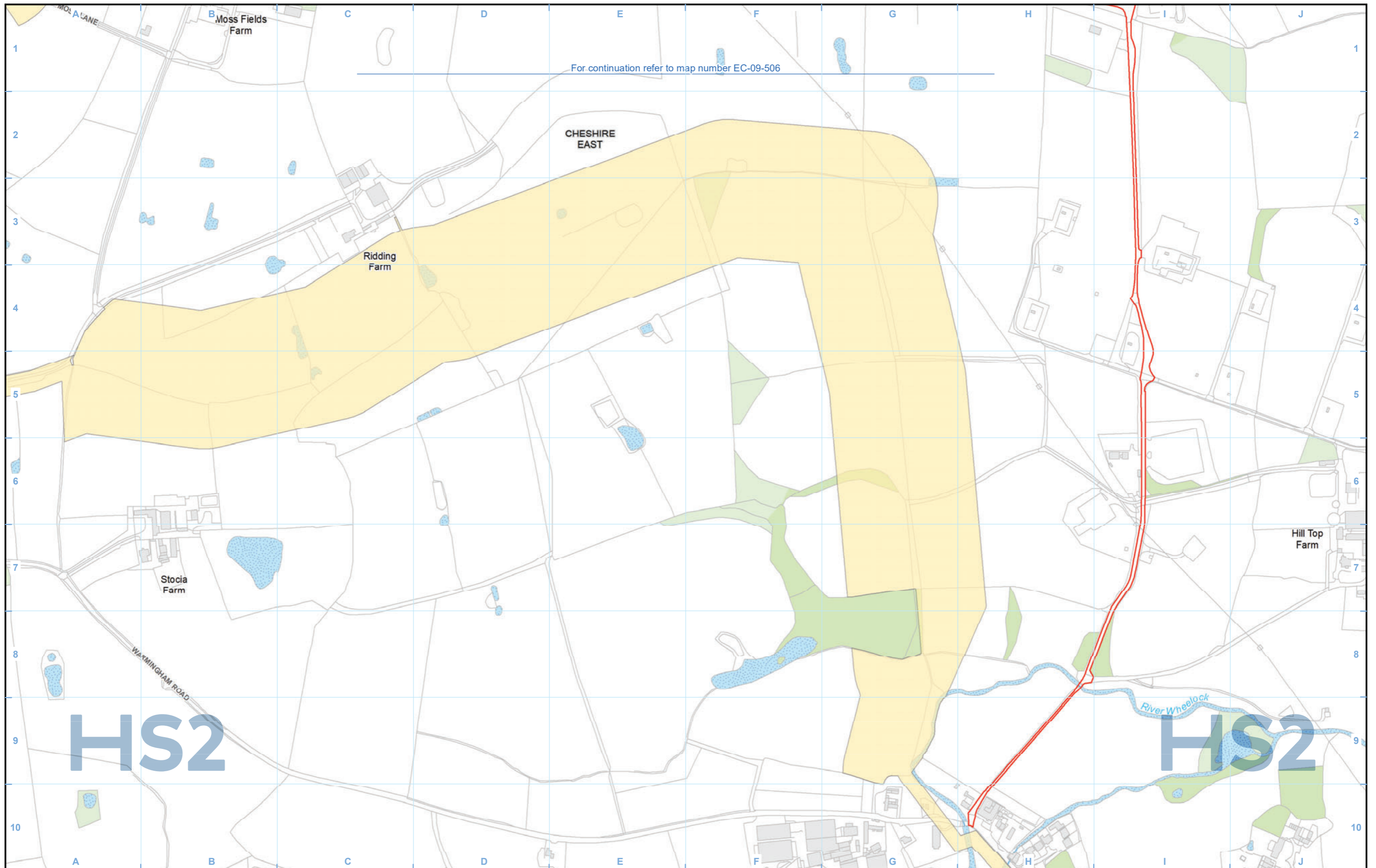
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-506-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

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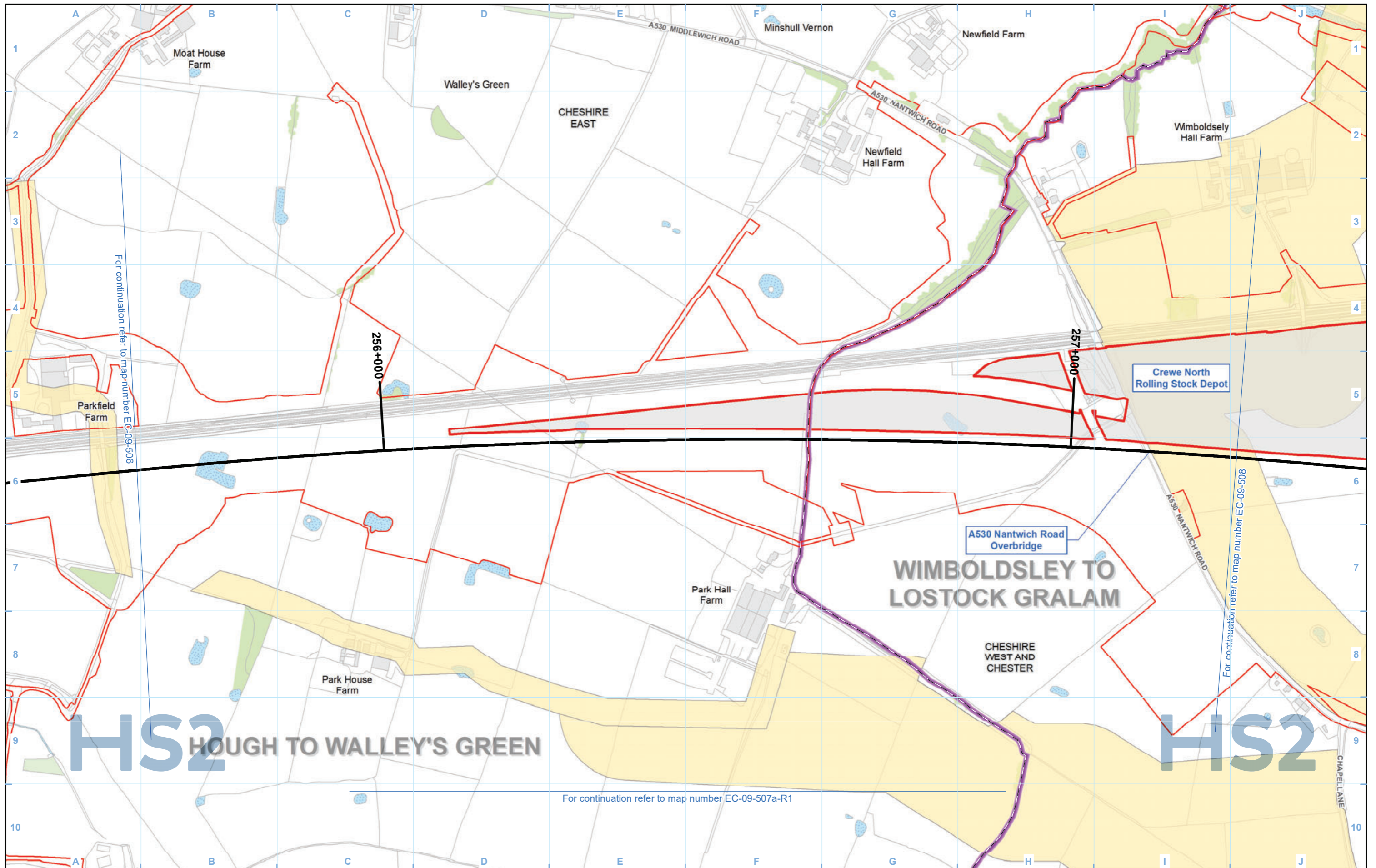
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Date: 12/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-507a

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA01: Hough to Walley's Green

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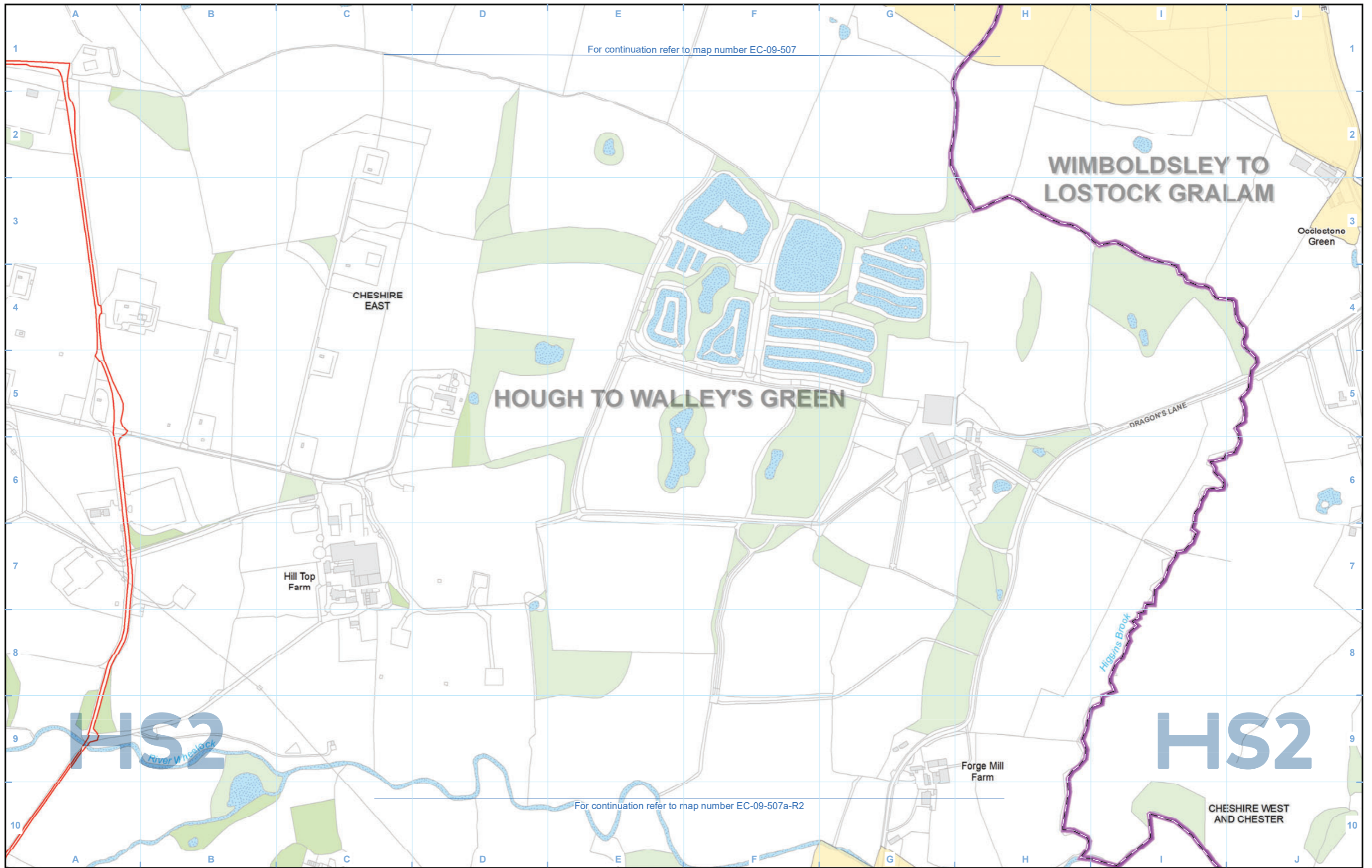
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-507a-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

HS2

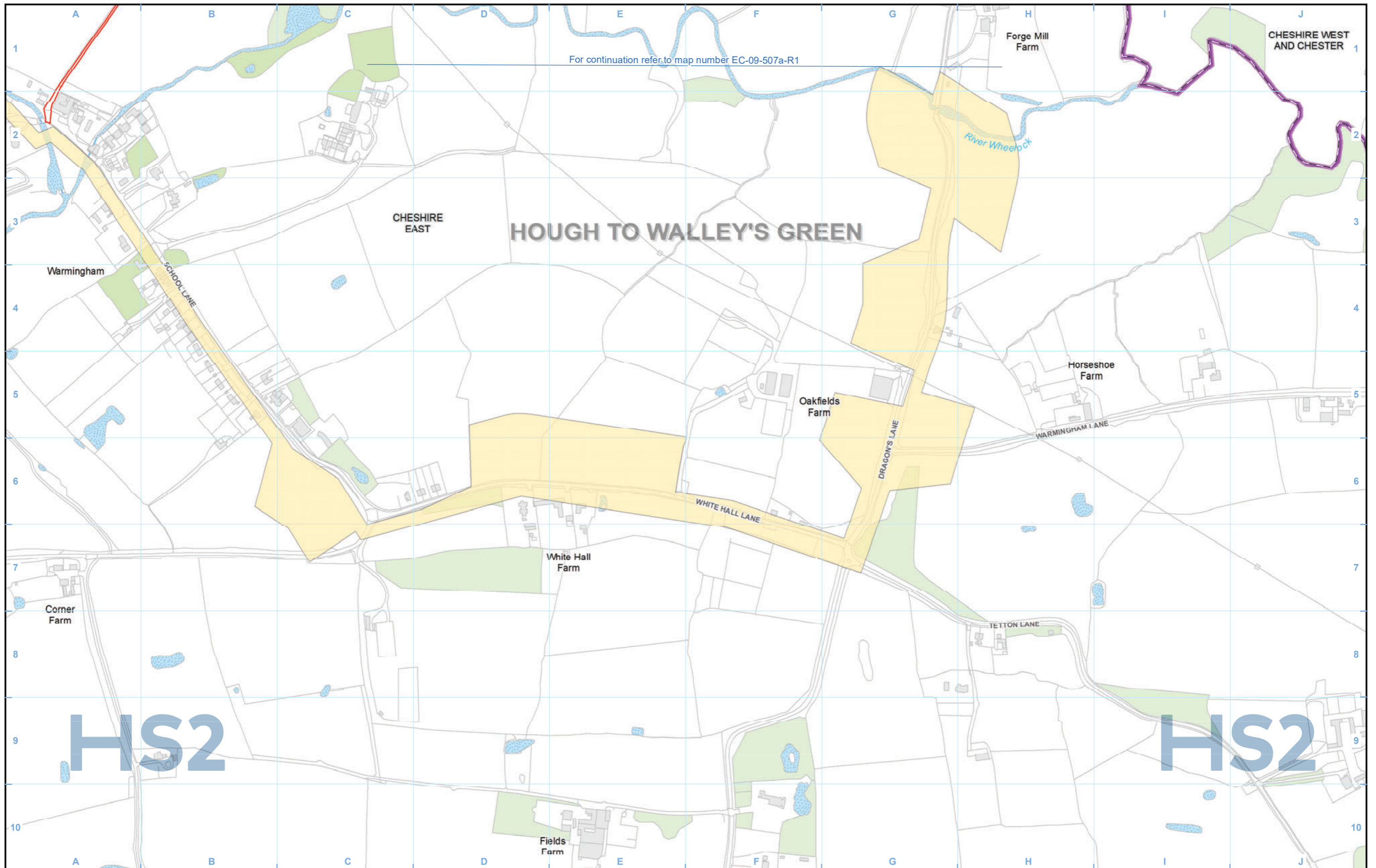
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HOUGH TO WALLEY'S GREEN

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-507a-R2**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA01:
Hough to Walley's Green

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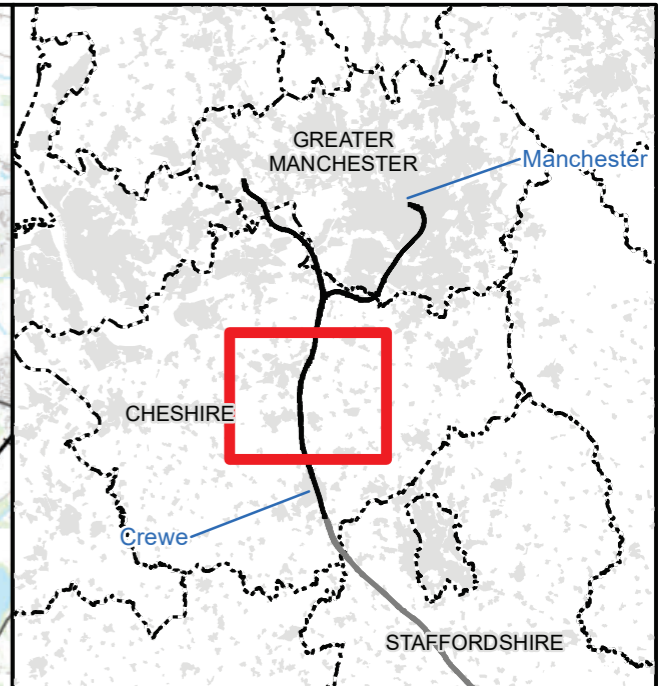
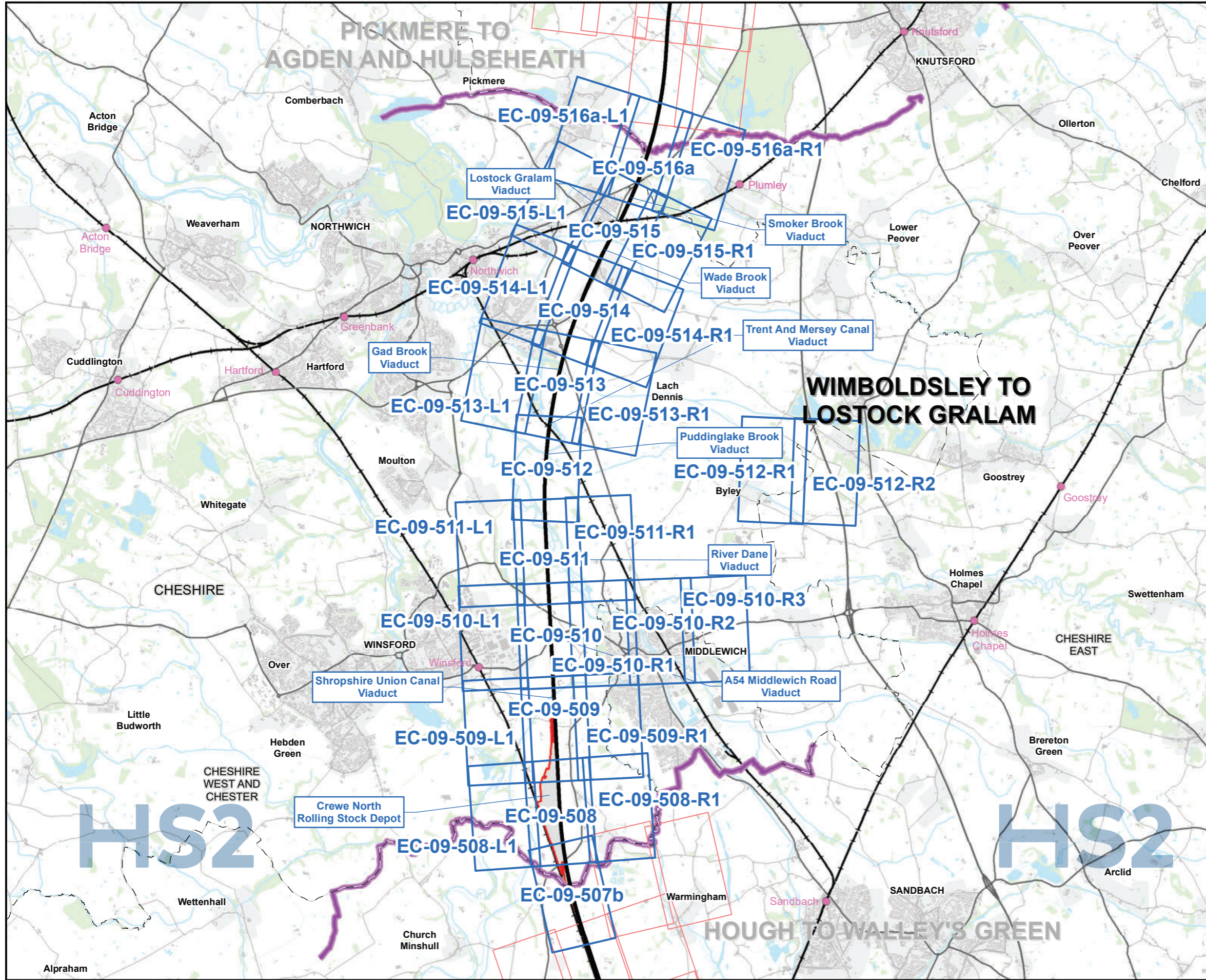
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Map Series Information:

This map series shows records of protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.

Main Map Legend

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

Map Number: EC-09-INDEX-MA02

Map Name: Index Map of:
Wintering and Passage Birds –
Protected and Notable Species

Community Area MA02:
Wimboldsley to Lostock Gralam

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BTO SPECIES CODES

AC	Arctic Skua	D.	Dunnoek	K.	Kestrel	RN	Raven	SG	Starling
AE	Arctic Tern	EG	Egyptian Goose	KF	Kingfisher	RA	Razorbill	SD	Stock Dove
AV	Avocet	E.	Eider	KI	Kittiwake	RG	Red Grouse	SC	Stonechat
BO	Barn Owl	FP	Feral Pigeon	KN	Knot	KT	Red Kite	TN	Stone-curlew
BY	Barnacle Goose	ZL	Feral/hybrid goose	LM	Lady Amherst's Pheasant	ED	Red-backed Shrike	TM	Storm Petrel
BA	Bar-tailed Godwit	ZF	Feral/hybrid mallard type	LA	Lapland Bunting	RM	Red-breasted Merganser	SL	Swallow
BR	Bearded Tit	FF	Fieldfare	L.	Lapwing	RQ	Red-crested Pochard	SI	Swift
BS	Berwick's Swan	FC	Firecrest	TL	Leach's Petrel	FV	Red-footed Falcon	TO	Tawny Owl
BI	Bittern	F.	Fulmar	LB	Lesser Black-backed Gull	RL	Red-legged Partridge	T.	Teal
BK	Black Grouse	GA	Gadwall	LS	Lesser Spotted Woodpecker	NK	Red-necked Phalarope	TK	Temminck's Stint
TY	Black Guillemot	GX	Gannet	LW	Lesser Whitethroat	LR	Redpoll (Lesser)	TP	Tree Pipit
BX	Black Redstart	GW	Garden Warbler	LI	Linnet	RK	Redshank	TS	Tree Sparrow
BJ	Black Tern	GY	Garganey	ET	Little Egret	RT	Redstart	TC	Treecreeper
B.	Blackbird	GC	Goldcrest	LG	Little Grebe	RH	Red-throated Diver	TU	Tufted Duck
BC	Blackcap	EA	Golden Eagle	LU	Little Gull	RE	Redwing	TT	Turnstone
BH	Black-headed Gull	OL	Golden Oriole	LO	Little Owl	RB	Reed Bunting	TD	Turtle Dove
BN	Black-necked Grebe	GF	Golden Pheasant	LP	Little Ringed Plover	RW	Reed Warbler	TW	Twite
BW	Black-tailed Godwit	GP	Golden Plover	AF	Little Tern	RZ	Ring Ouzel	WA	Water Rail
BV	Black-throated Diver	GN	Goldeneye	LE	Long-eared Owl	RP	Ringed Plover	W.	Wheatear
BT	Blue Tit	GO	Goldfinch	LT	Long-tailed Tit	RI	Ring-necked Parakeet	WM	Whimbrel
BU	Bluethroat	GD	Goosander	MG	Magpie	R.	Robin	WC	Whinchat
BL	Brambling	GI	Goshawk	MA	Mallard	DV	Rock Dove (not feral)	WG	White-fronted Goose
BG	Brent Goose	GH	Grasshopper Warbler	MN	Mandarin Duck	RC	Rock Pipit	WH	Whitethroat
BF	Bullfinch	GB	Great Black-backed Gull	MX	Manx Shearwater	RO	Rook	WS	Whooper Swan
BZ	Buzzard	GG	Great Crested Grebe	MR	Marsh Harrier	RS	Roseate Tern	WN	Wigeon
CG	Canada Goose	ND	Great Northern Diver	MT	Marsh Tit	RY	Ruddy Duck	WT	Willow Tit
CP	Capercaillie	NX	Great Skua	MW	Marsh Warbler	RU	Ruff	WW	Willow Warbler
C.	Carrion Crow	GS	Great Spotted Woodpecker	MP	Meadow Pipit	SM	Sand Martin	OD	Wood Sandpiper
CW	Cetti's Warbler	GT	Great Tit	MU	Mediterranean Gull	SS	Sanderling	WO	Wood Warbler
CH	Chaffinch	GE	Green Sandpiper	ML	Merlin	TE	Sandwich Tern	WK	Woodcock
CC	Chiffchaff	G.	Green Woodpecker	M.	Mistle Thrush	VI	Savi's Warbler	WL	Woodlark
CF	Chough	GR	Greenfinch	MO	Montagu's Harrier	SQ	Scarlet Rosefinch	WP	Woodpigeon
CL	Cirl Bunting	GK	Greenshank	MH	Moorhen	SP	Scaup	WR	Wren
CT	Coal Tit	H.	Grey Heron	MS	Mute Swan	CY	Scottish Crossbill	WY	Wryneck
CD	Collared Dove	P.	Grey Partridge	N.	Nightingale	SW	Sedge Warbler	YW	Yellow Wagtail
CM	Common Gull	GV	Grey Plover	NJ	Nightjar	NS	Serin	Y.	Yellowhammer
CS	Common Sandpiper	GL	Grey Wagtail	NH	Nuthatch	SA	Shag		
CX	Common Scoter	GJ	Greylag Goose	OP	Osprey	SU	Shelduck		
CN	Common Tern	GU	Guillemot	OC	Oystercatcher	SX	Shorelark		
CO	Coot	FW	Guineafowl (Helmeted)	PX	Peafowl/Peacock	SE	Short-eared Owl		
CA	Cormorant	HF	Hawfinch	PE	Peregrine	SV	Shoveler		
CB	Corn Bunting	HH	Hen Harrier	PH	Pheasant	SK	Siskin		
CE	Corncrake	HG	Herring Gull	PF	Pied Flycatcher	S.	Skylark		
CI	Crested Tit	HY	Hobby	PW	Pied Wagtail	SZ	Slavonian Grebe		
CR	Crossbill (Common)	HZ	Honey Buzzard	PG	Pink-footed Goose	SN	Snipe		
CK	Cuckoo	HC	Hooded Crow	PT	Pintail	SB	Snow Bunting		
CU	Curlew	HP	Hoopoe	PO	Pochard	ST	Song Thrush		
DW	Dartford Warbler	HM	House Martin	PM	Ptarmigan	SH	Sparrowhawk		
DI	Dipper	HS	House Sparrow	PU	Puffin	AK	Spotted Crake		
DO	Dotterel	JD	Jackdaw	PS	Purple Sandpiper	SF	Spotted Flycatcher		
DN	Dunlin	J.	Jay	Q.	Quail	DR	Spotted Redshank		

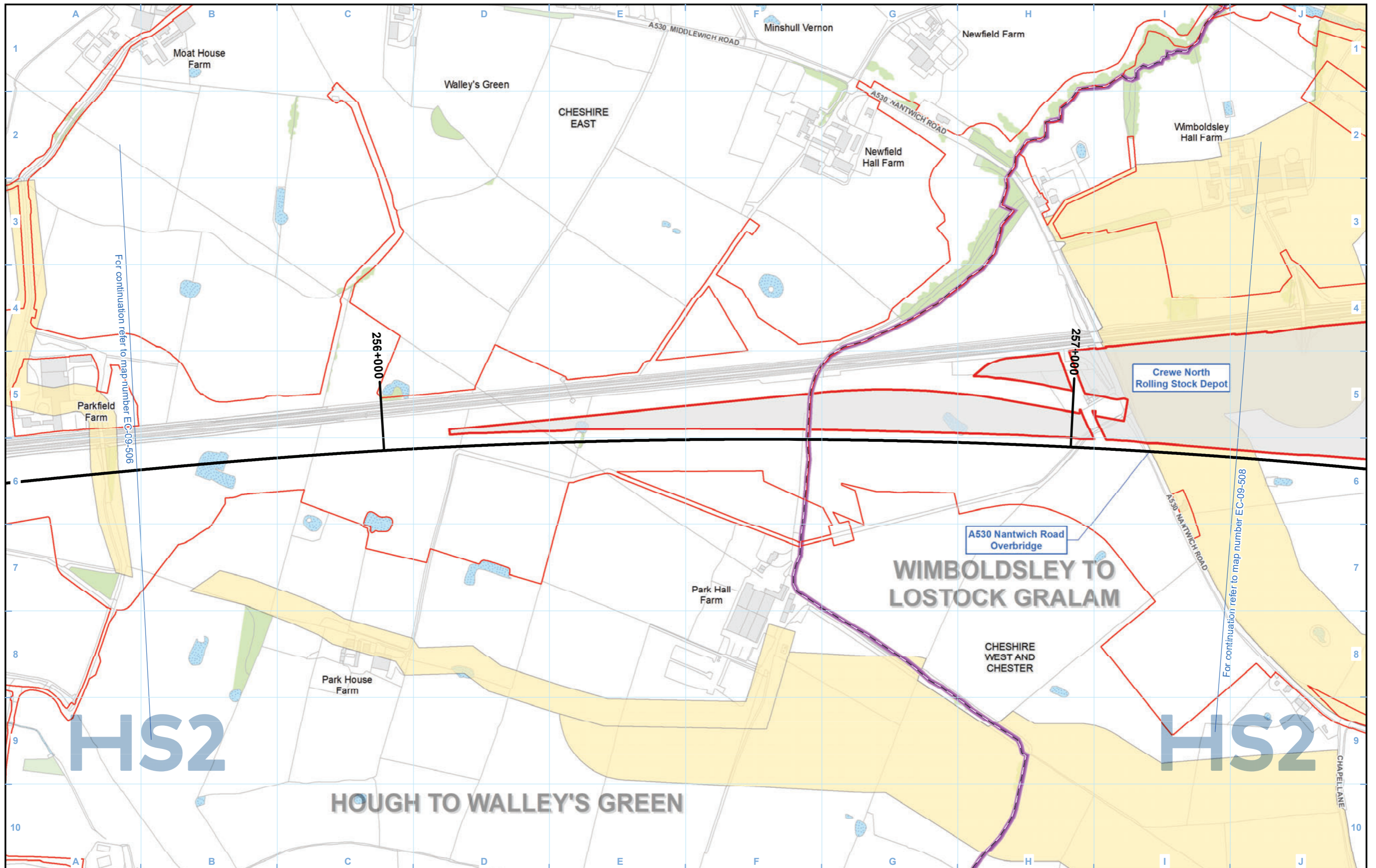
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Map Name	EC-09 BTO Bird Species Legend

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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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-507b

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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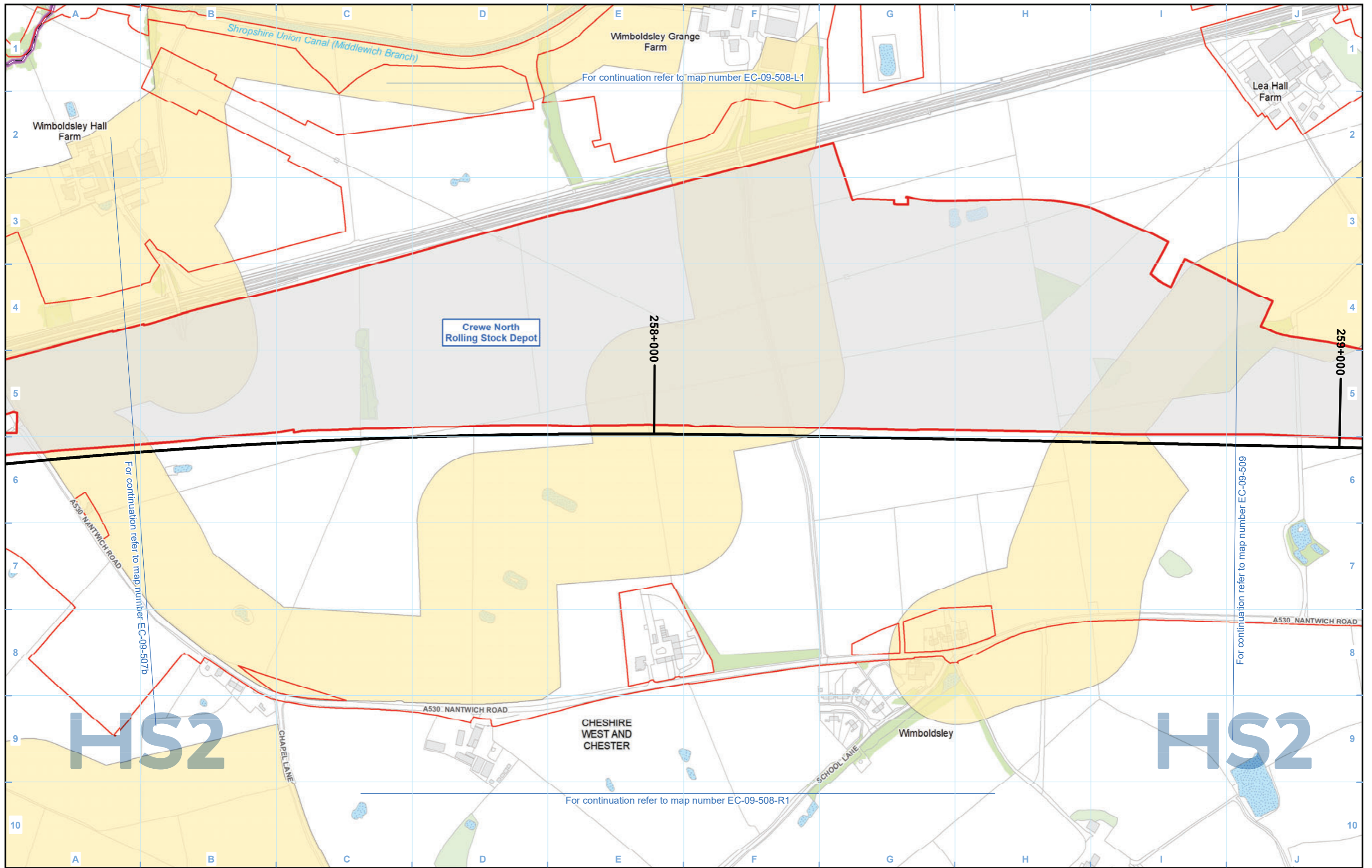
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-508

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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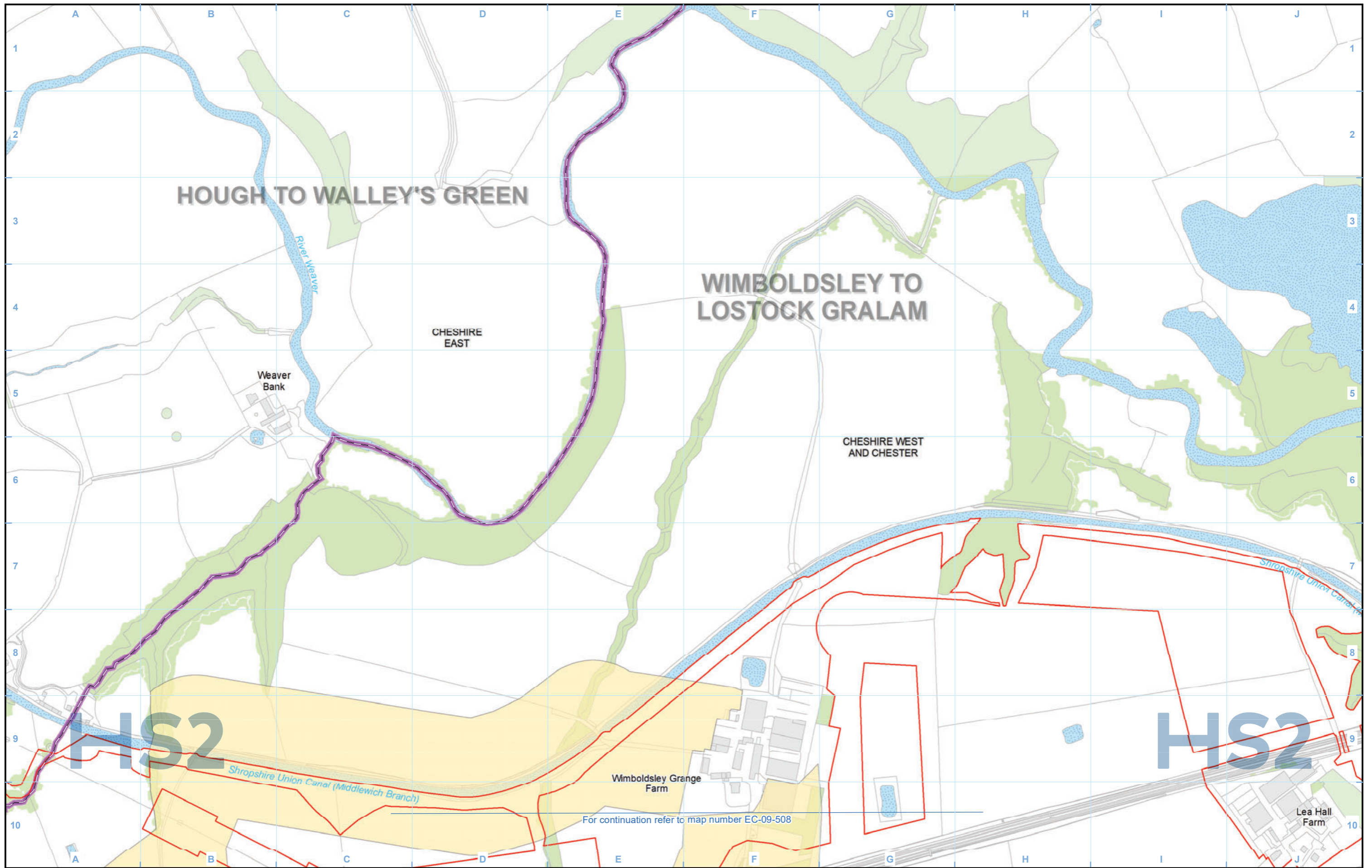
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-508-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

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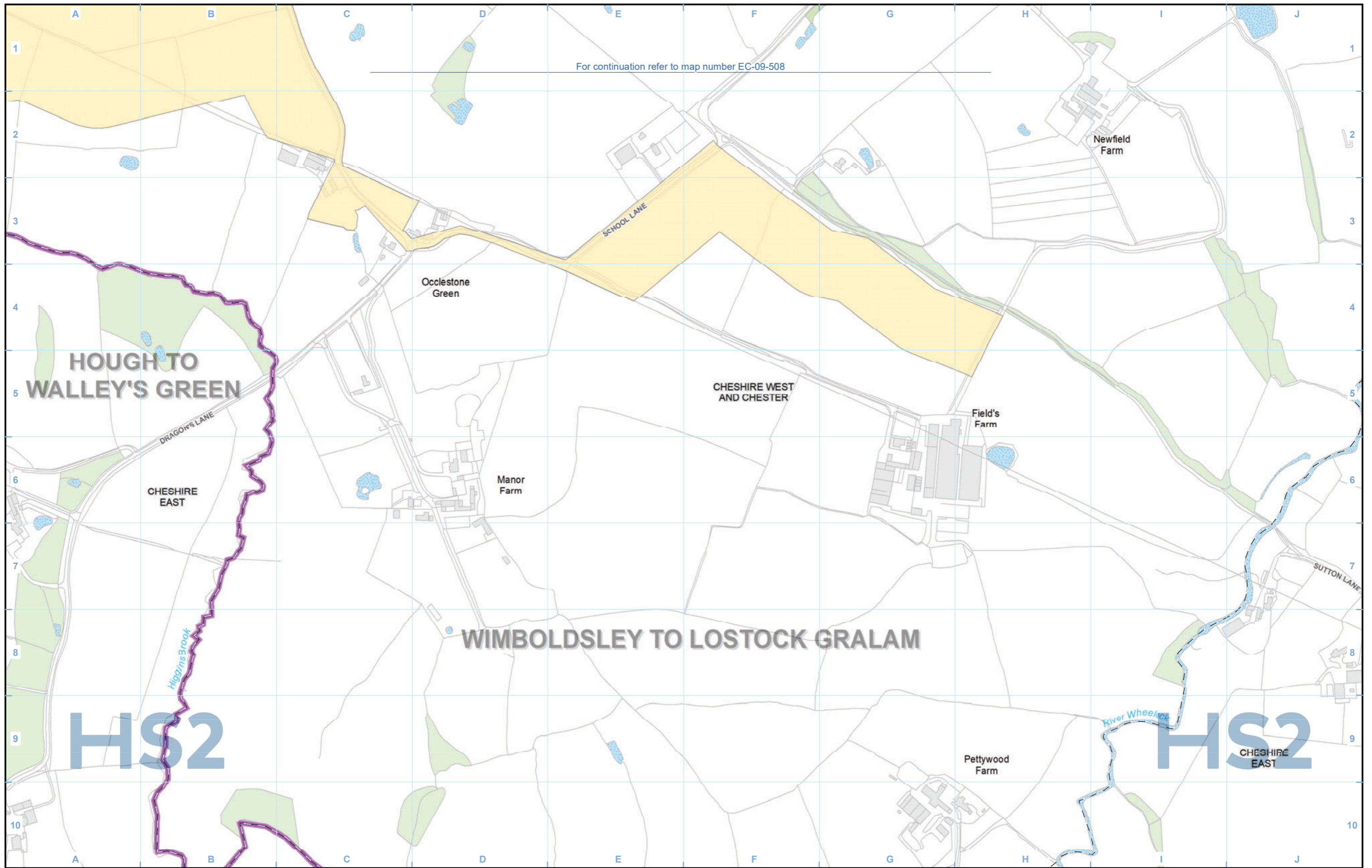
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-508-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

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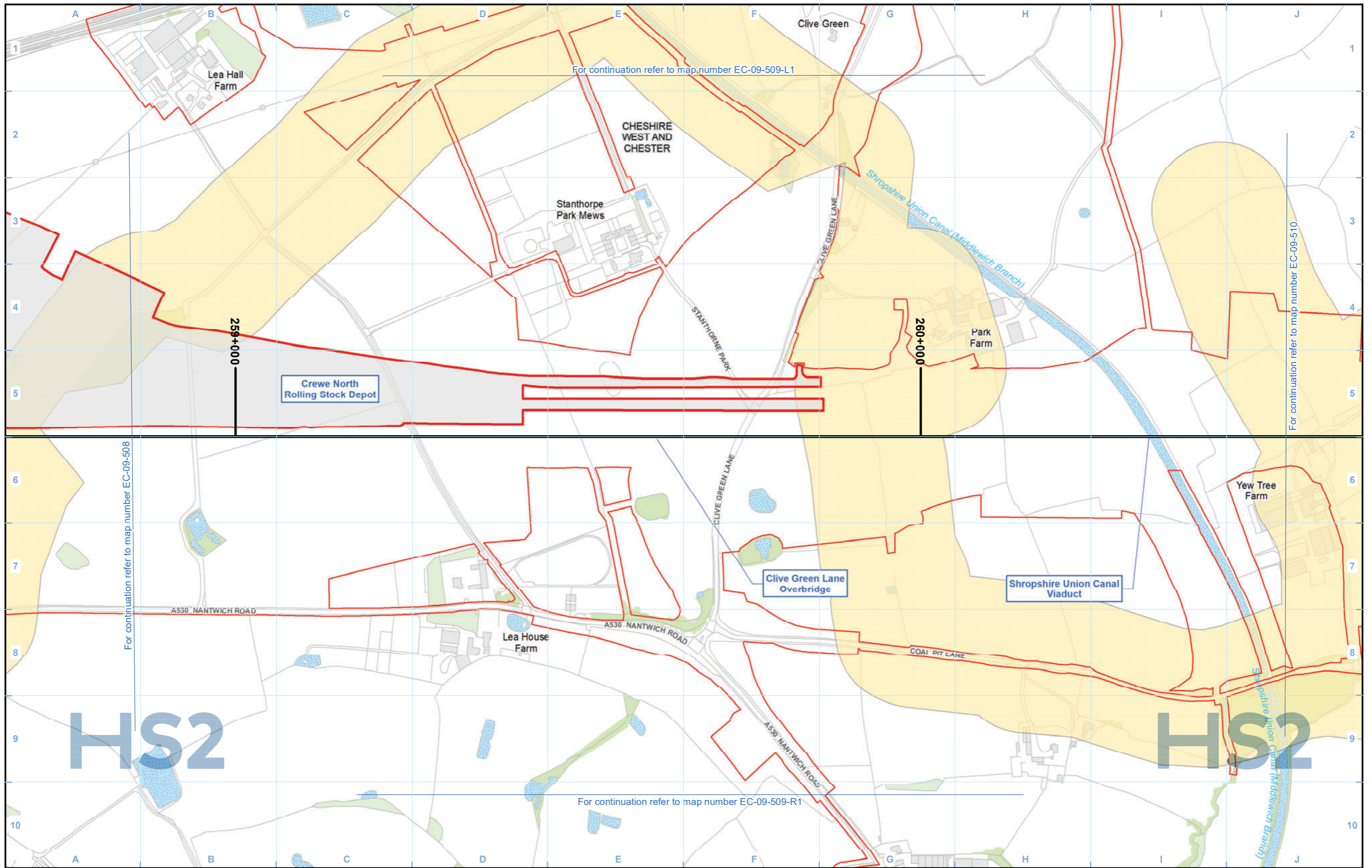
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Date: 12/08/21

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-509

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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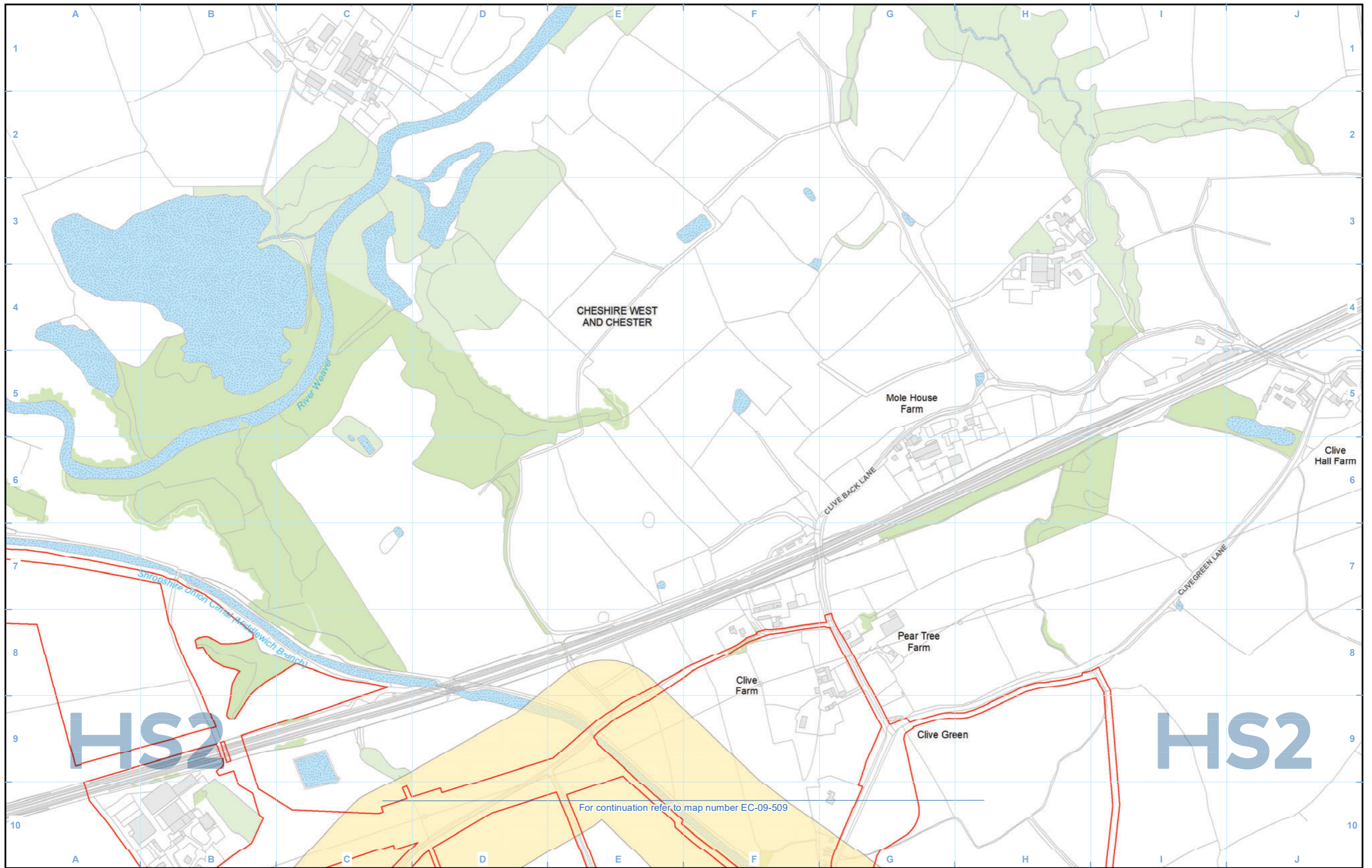
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Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 	<ul style="list-style-type: none"> Wintering & passage birds - survey extent
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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-509-L1

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

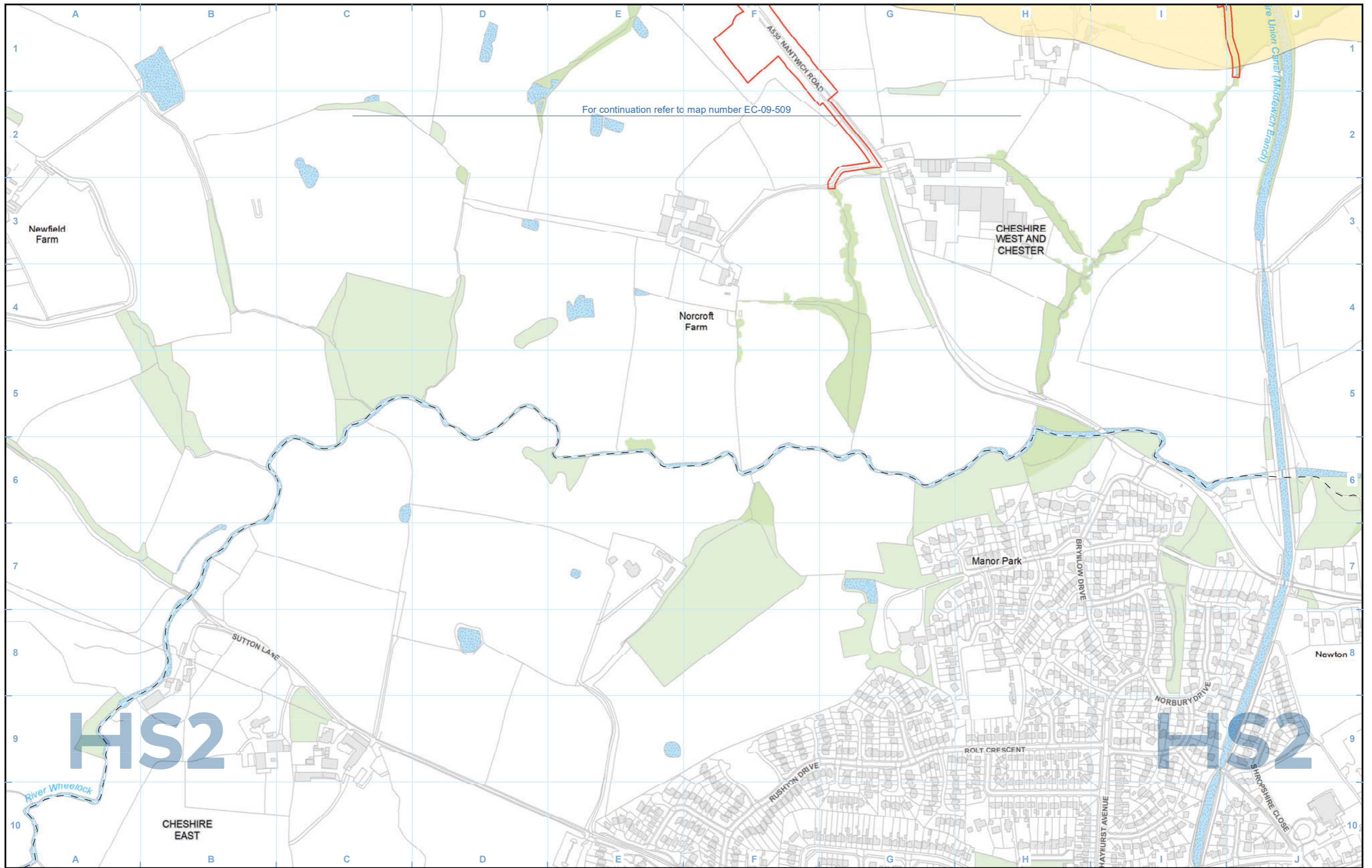
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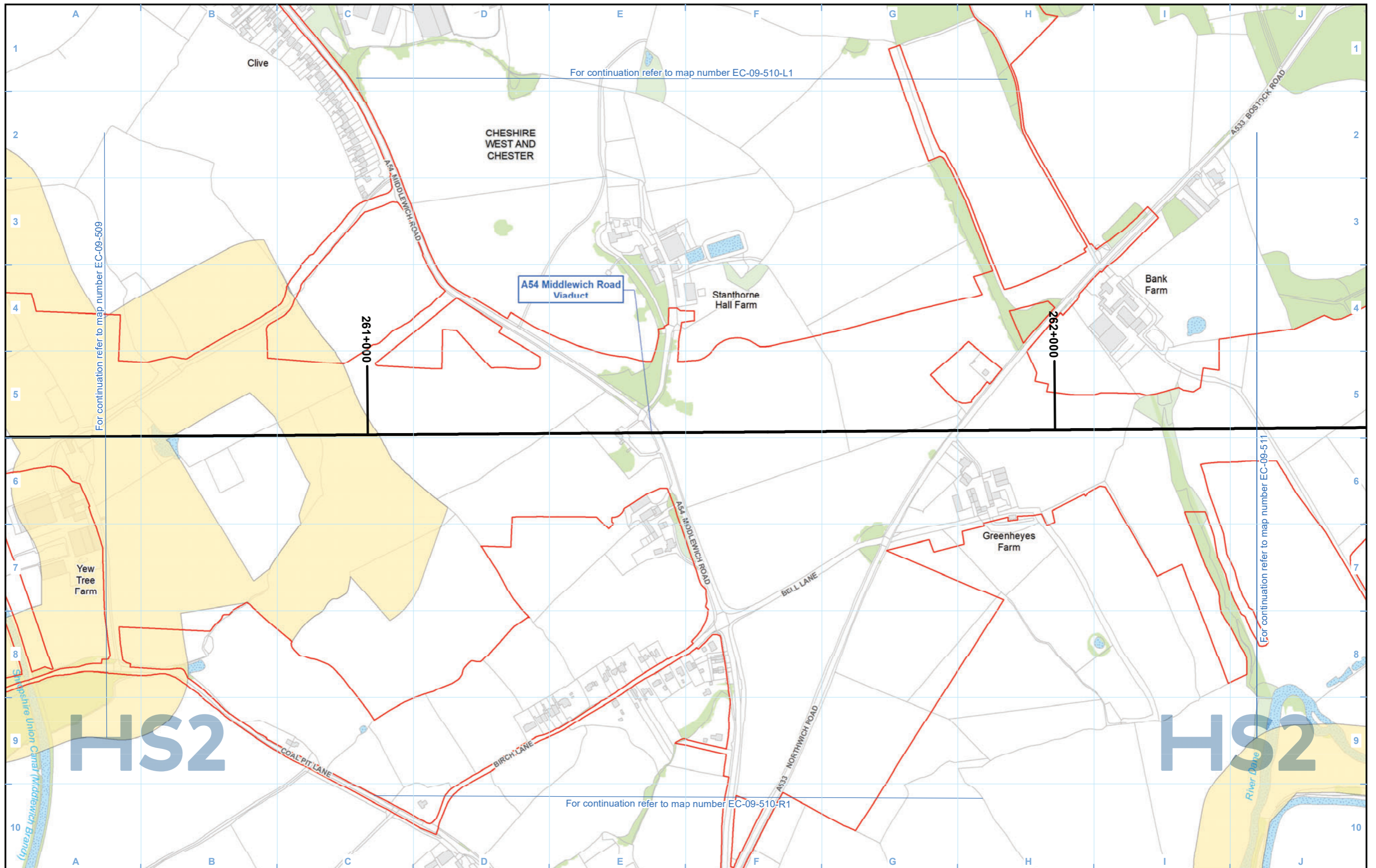
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For continuation refer to map number EC-09-509

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<p>For full legend please refer to EC-09 - Bird Species Legend Page</p>				<p>Map Number EC-09-509-R1</p> <p>Map Name Wintering and Passage Birds – Protected and Notable Species</p> <p>Community Area MA02: Wimboldsley to Lostock Gralam</p>		<p>HS2</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2021 OS 100049190</p> <p>Scale at A3: 1:5,000</p> <p>Doc Number: 2DE01-MWJ-EV-MAP-M000-003282-P01</p> <p>Date: 12/08/21</p>	



For continuation refer to map number EC-09-509

For continuation refer to map number EC-09-510-L1

For continuation refer to map number EC-09-511

For continuation refer to map number EC-09-510-R1

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-510

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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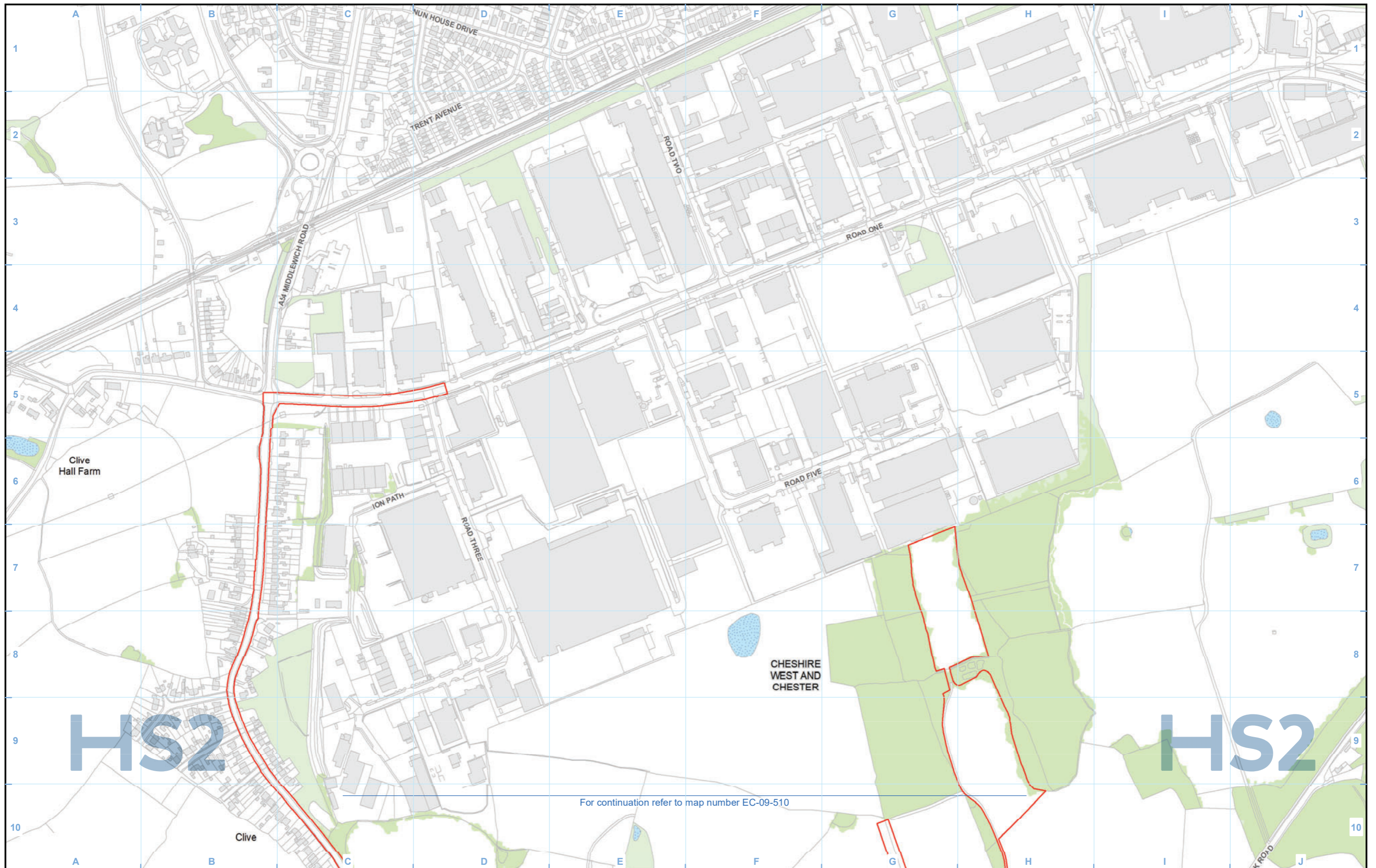
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Date: 12/08/21

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For continuation refer to map number EC-09-510

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-510-L1**
 Map Name **Wintering and Passage Birds – Protected and Notable Species**
 Community Area MA02:
 Wimboldsley to Lostock Gralam

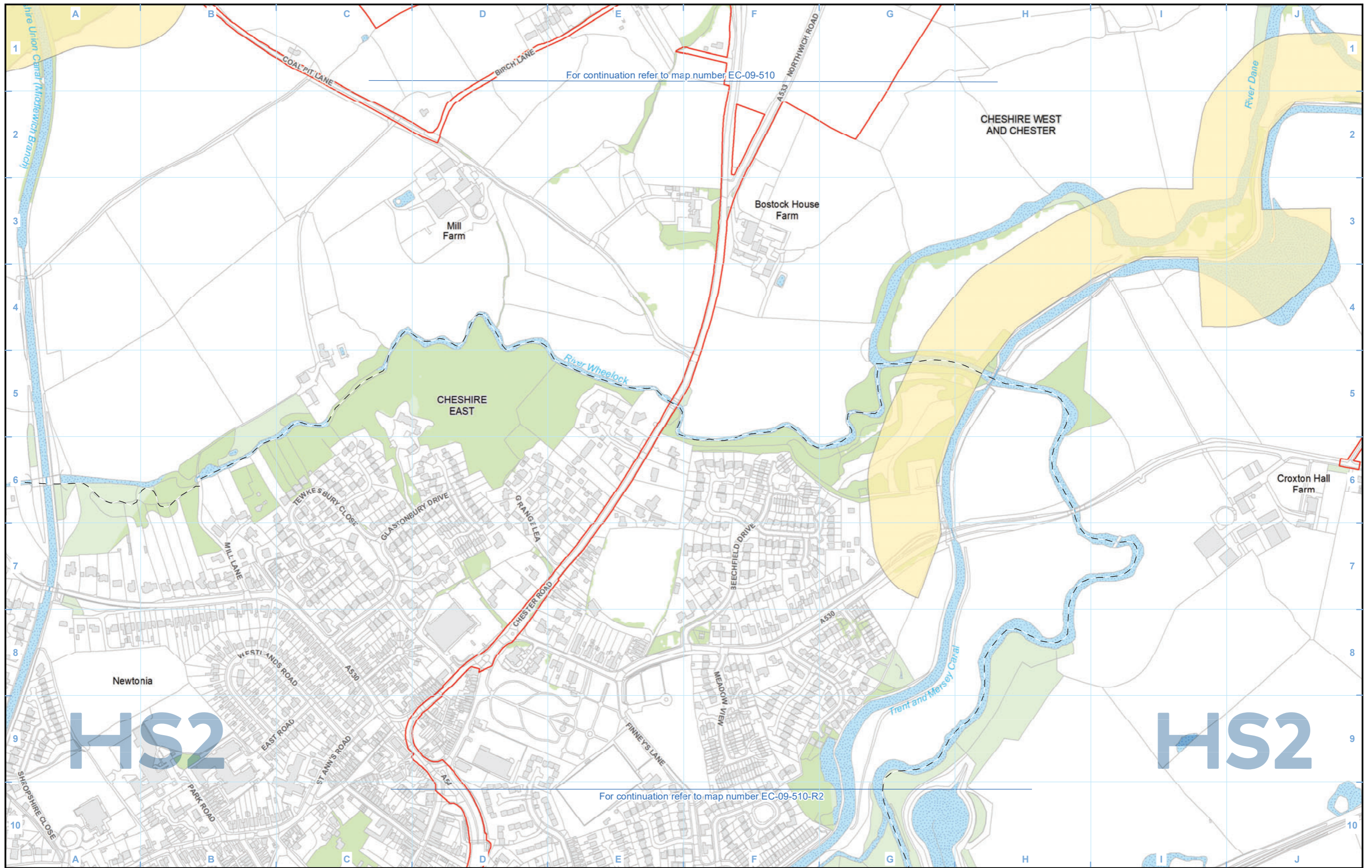
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For continuation refer to map number EC-09-510

For continuation refer to map number EC-09-510-R2

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-510-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

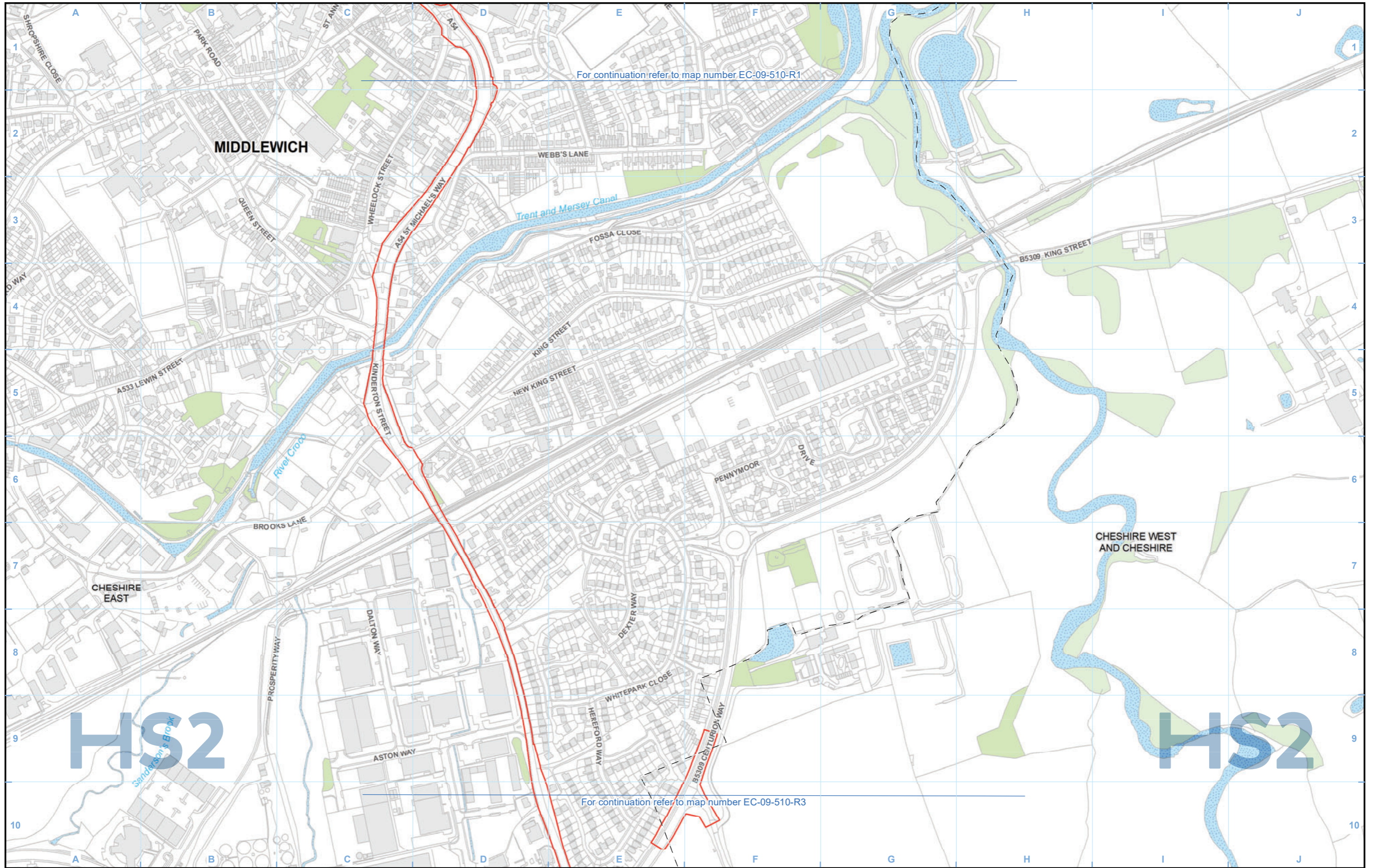
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-510-R2**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

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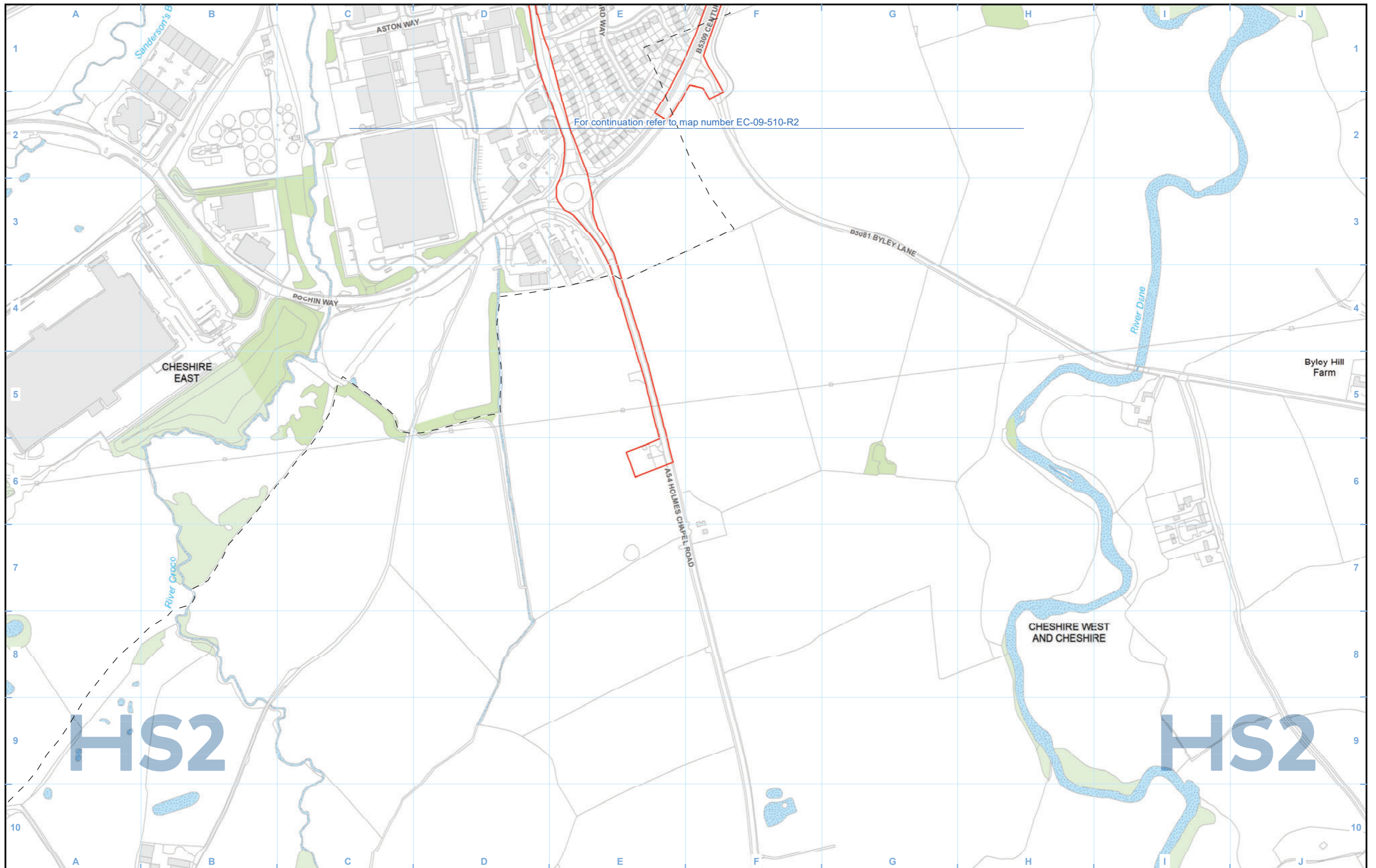
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003284-P01

Date: 12/08/21



Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-510-R3**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

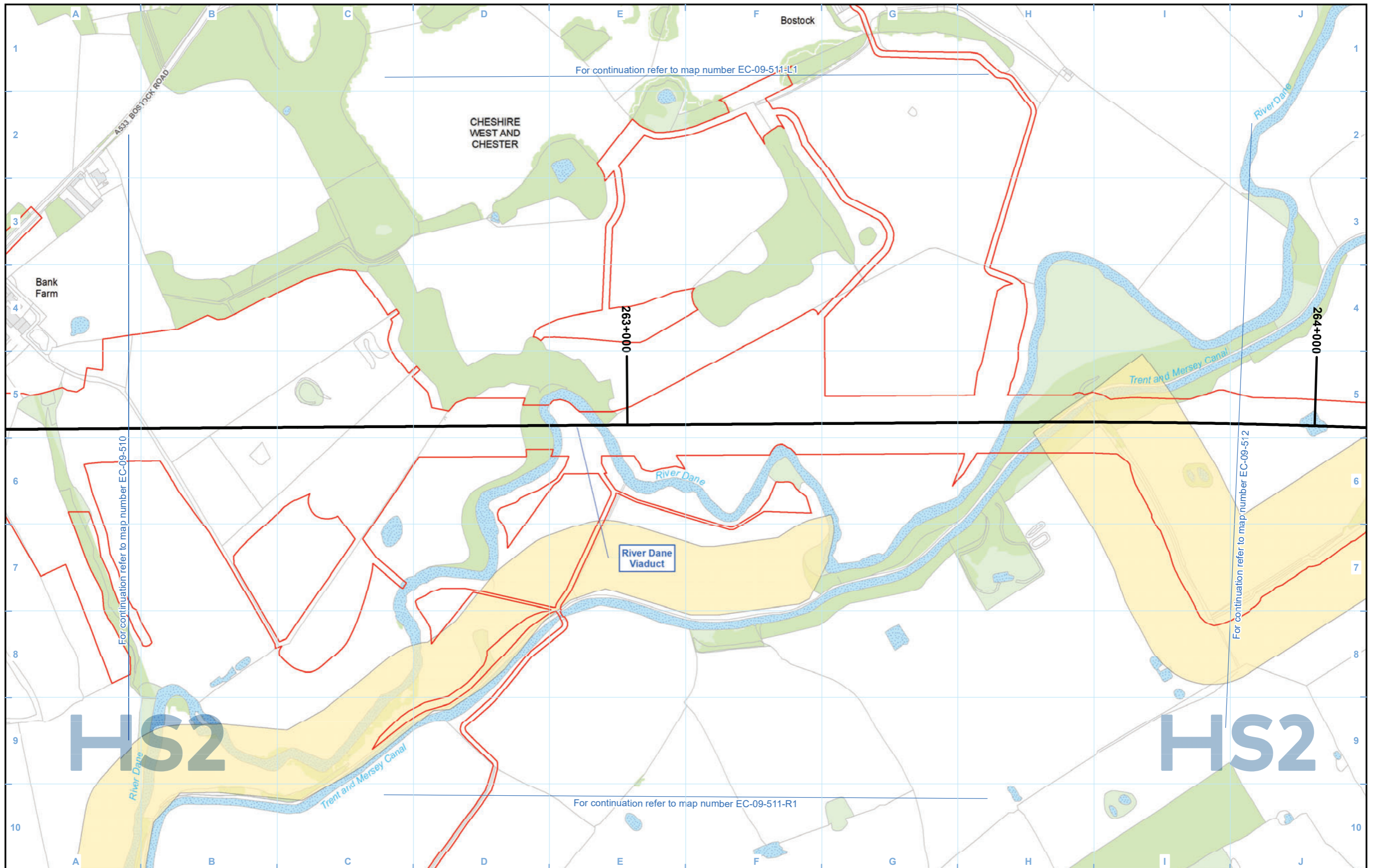
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003285-P01

Date: 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number EC-09-511

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area MA02:
 Wimboldsley to Lostock Gralam

HS2

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Doc Number: 2DE01-MWJ-EV-MAP-M000-001242-P01

Date: 12/08/21



Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 	<ul style="list-style-type: none"> Wintering & passage birds - survey extent
--	---	--	---	--

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-511-L1

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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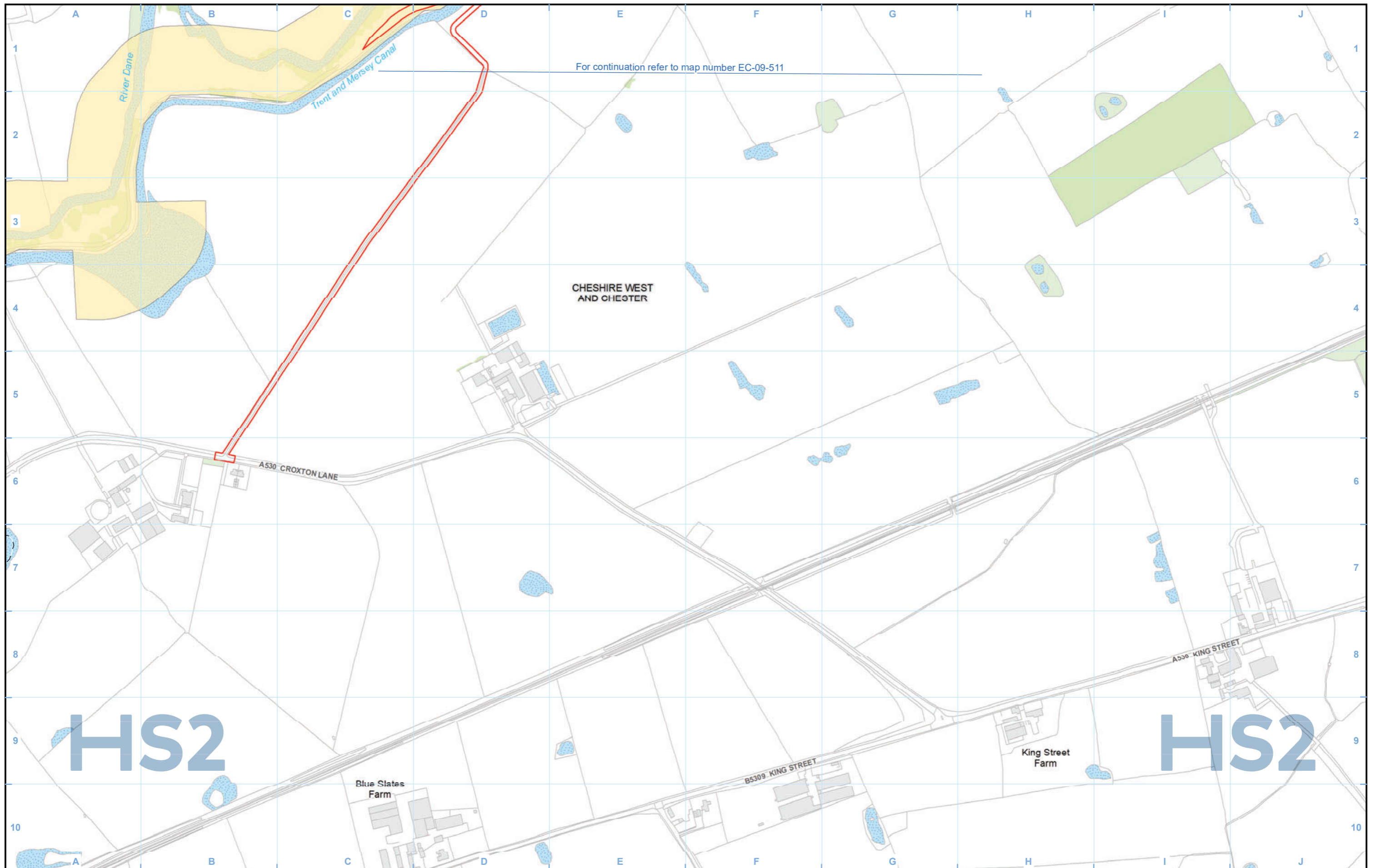
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003286-P01

Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-511-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

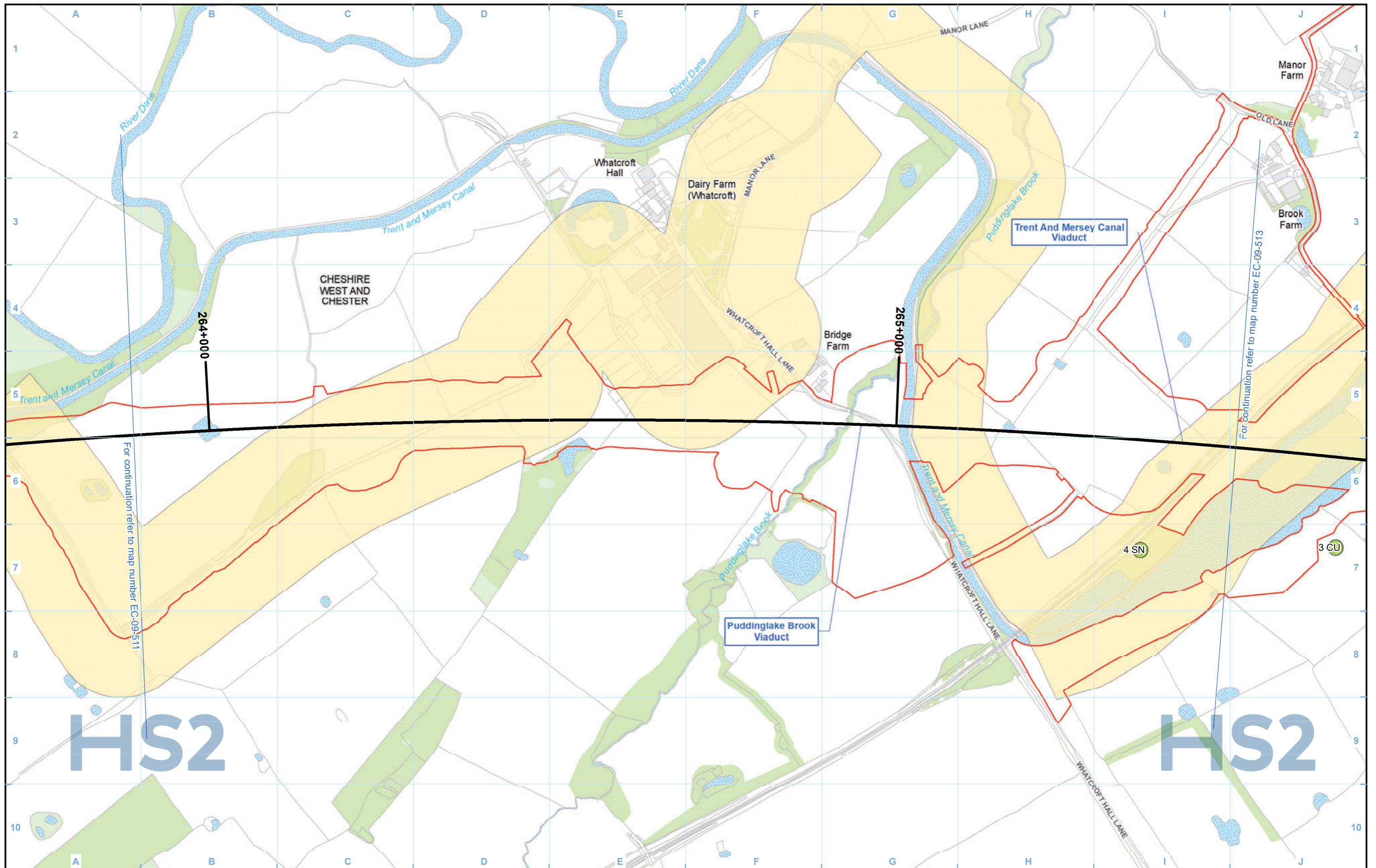
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Date: 12/08/21

Scale at A3: 1:5,000



Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 	<ul style="list-style-type: none"> Wintering & passage birds - survey extent
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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-512

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

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Doc Number: 2DE01-MWJ-EV-MAP-M000-001243-P01

Date: 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-512-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

Hs2

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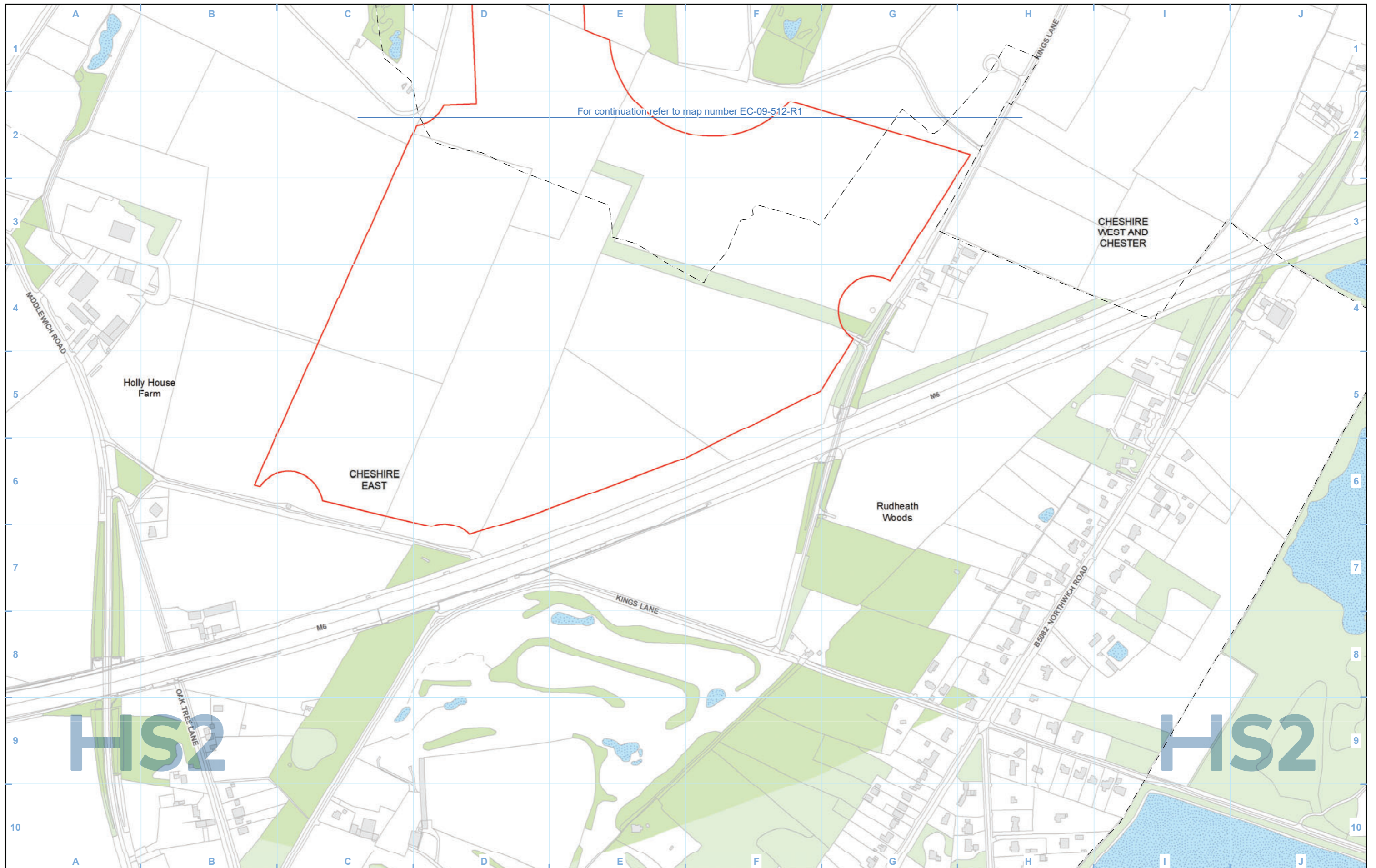
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003288-P01

Date: 12/08/21

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0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-512-R2**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

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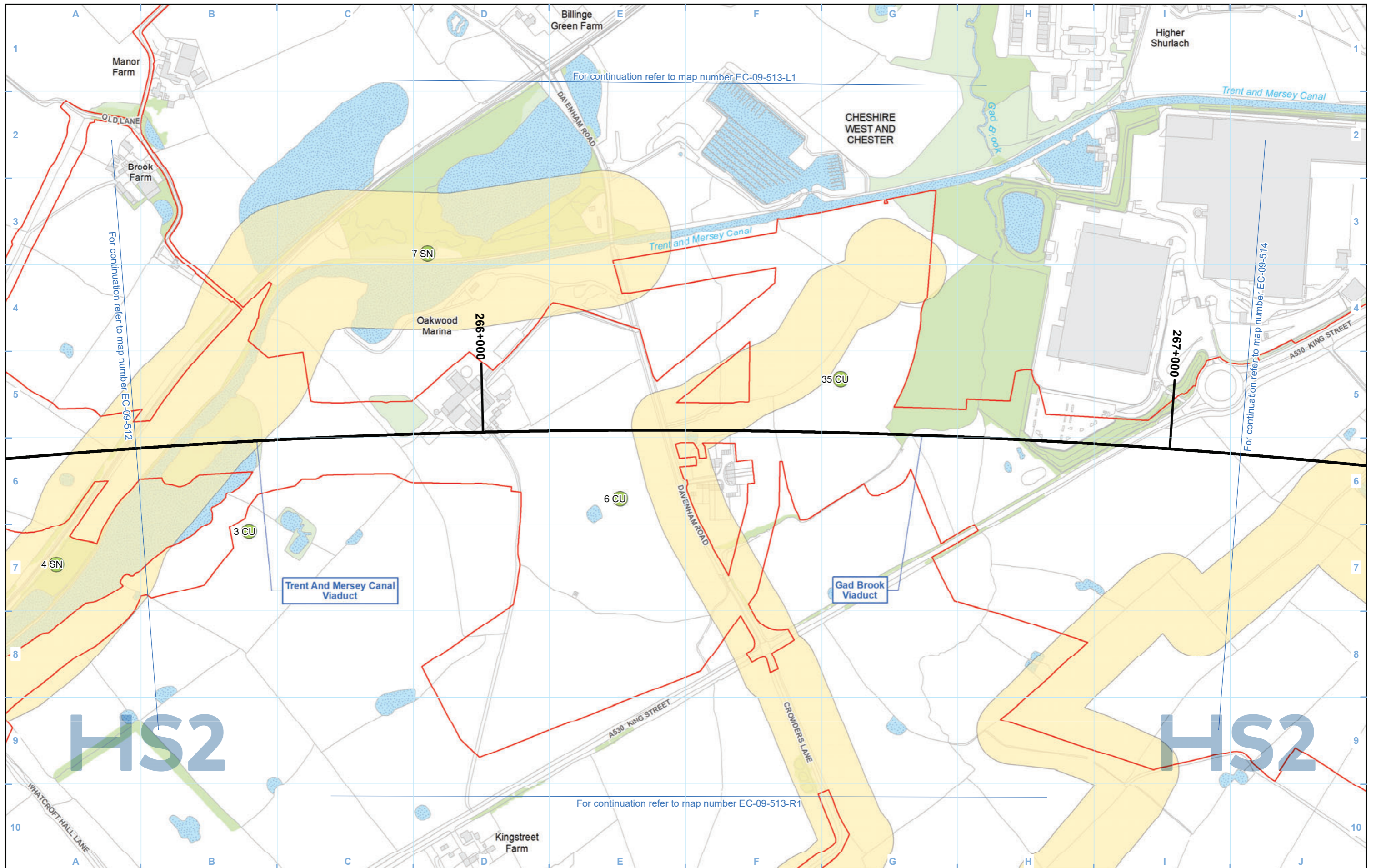
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003289-P01

Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Wintering & passage birds - survey extent
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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-513

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

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Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



For continuation refer to map number EC-09-513

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-513-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

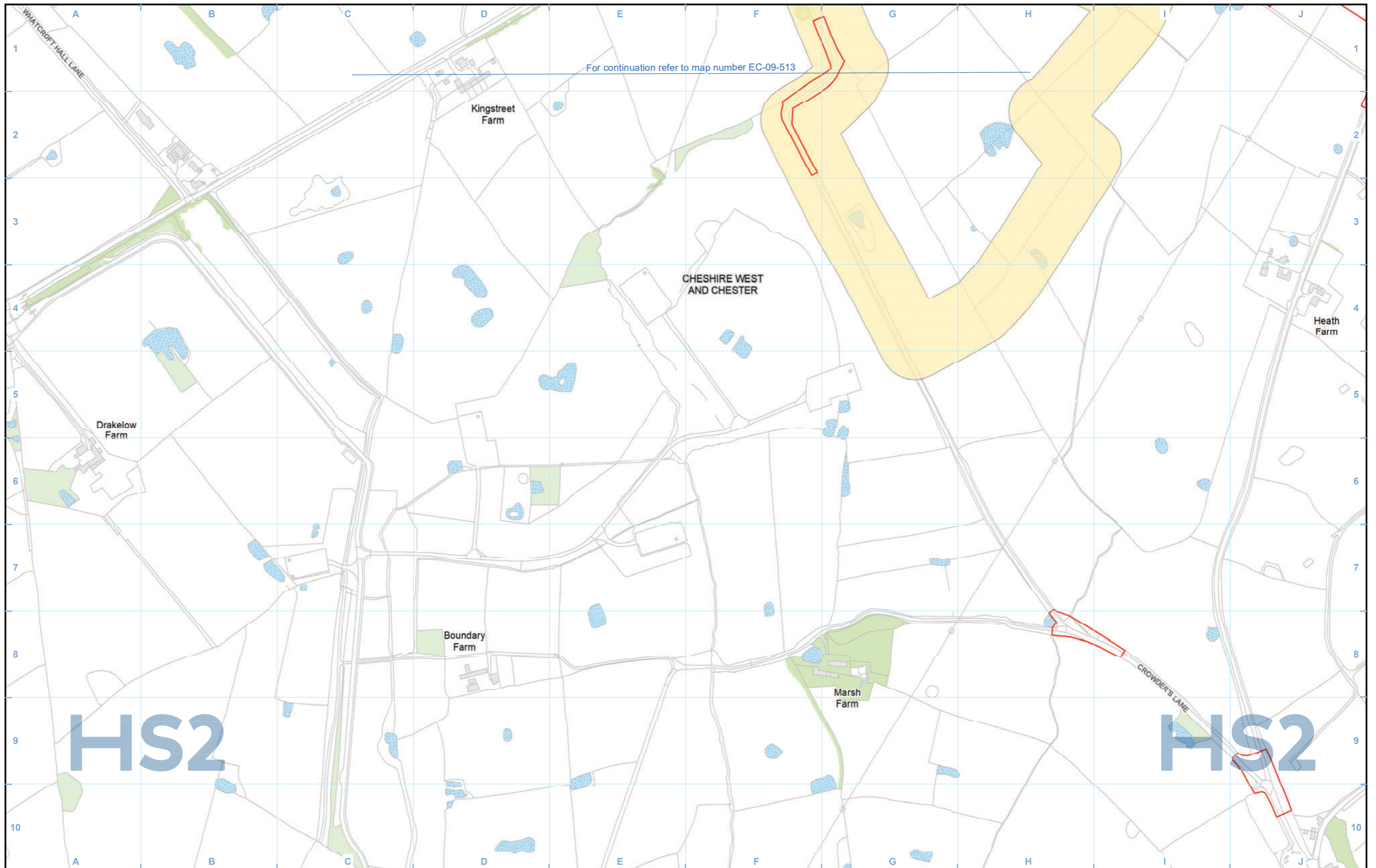
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003290-P01

Date: 12/08/21

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Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Other notable species relevant to assessment 	<ul style="list-style-type: none"> Wintering & passage birds - survey extent
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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-513-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

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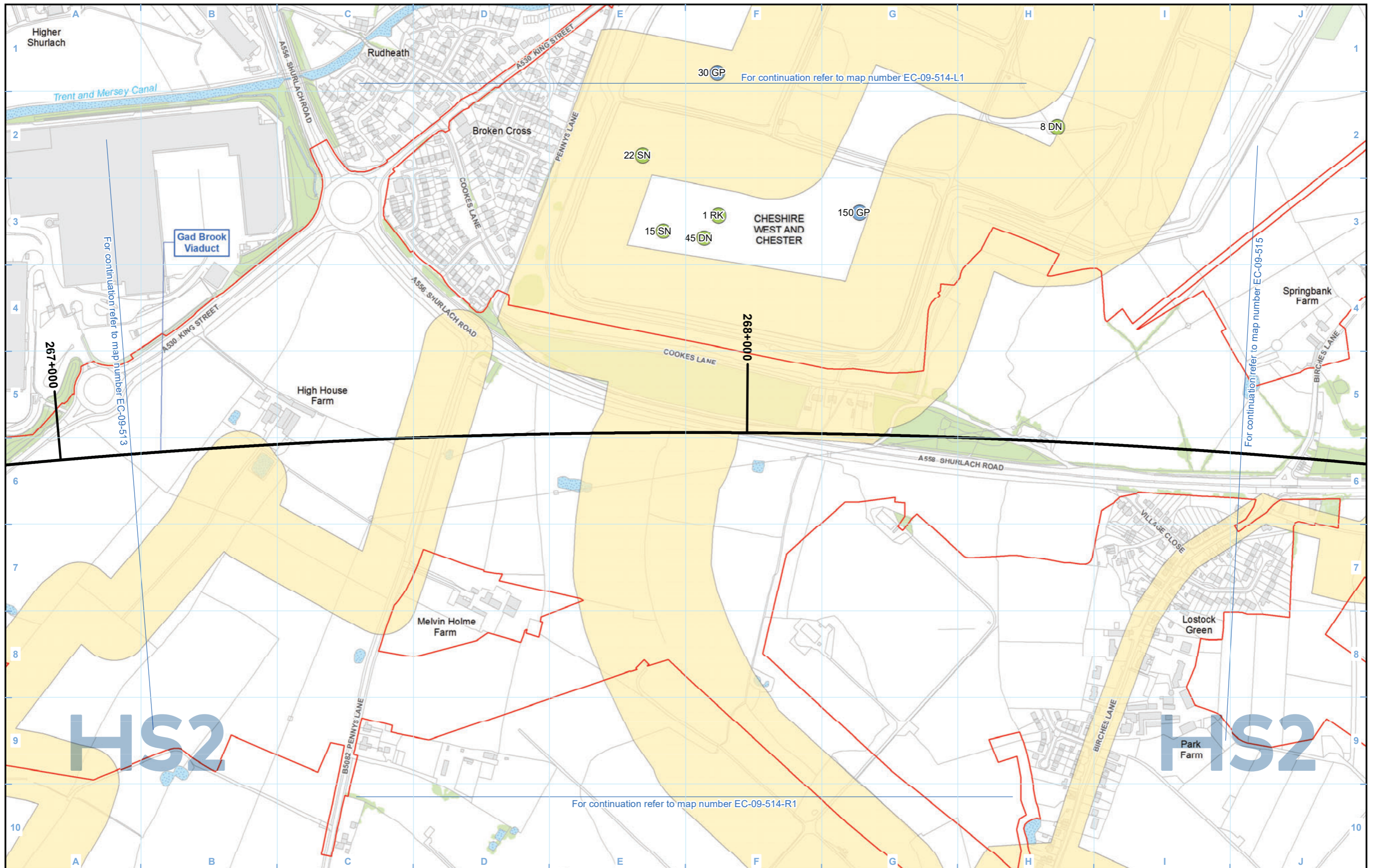
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Doc Number: 2DE01-MWJ-EV-MAP-M000-002848-P01

Scale at A3: 1:5,000

0 50 100 150 200 Metres

Date: 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-514

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

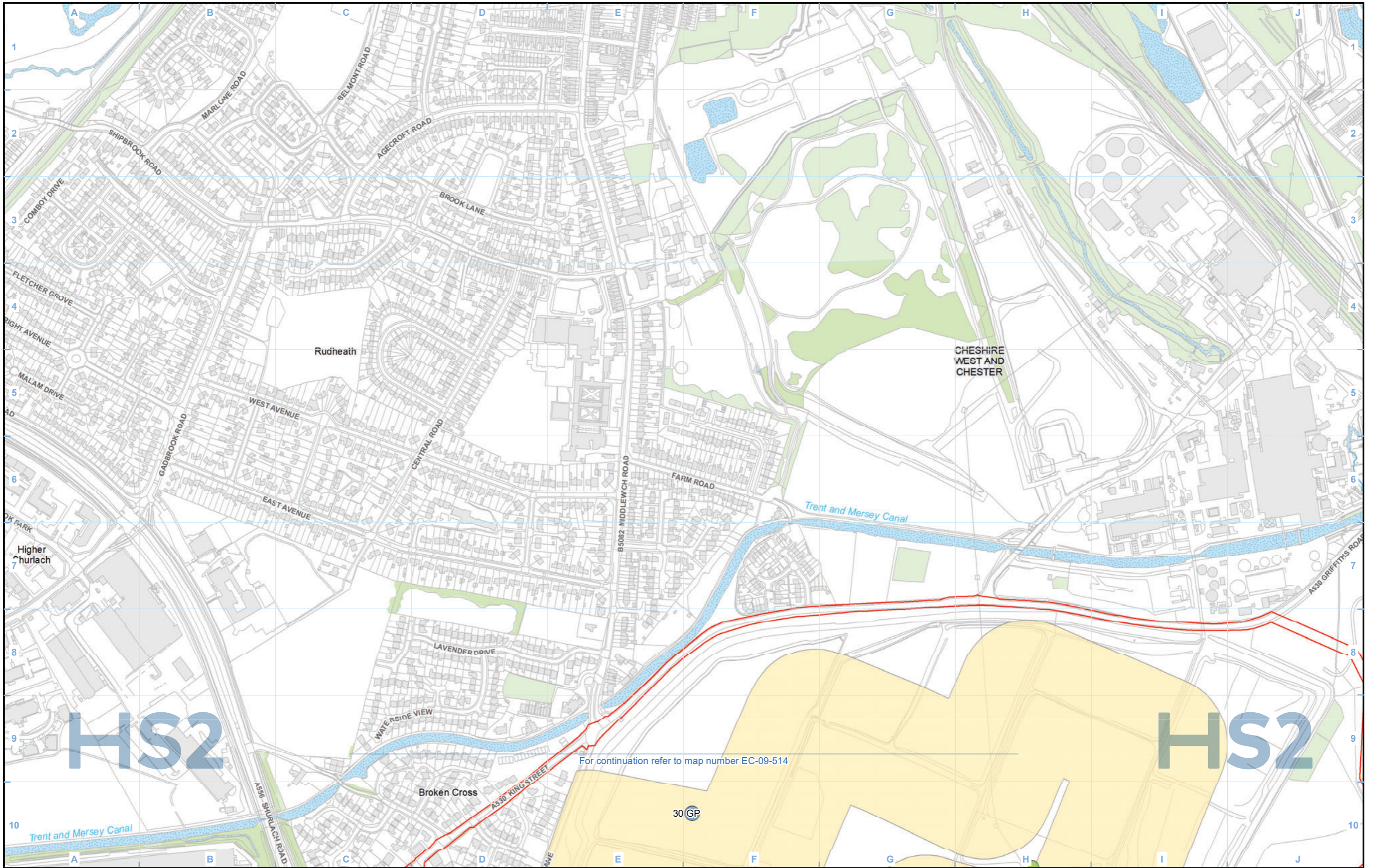
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Date: 12/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-514-L1

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

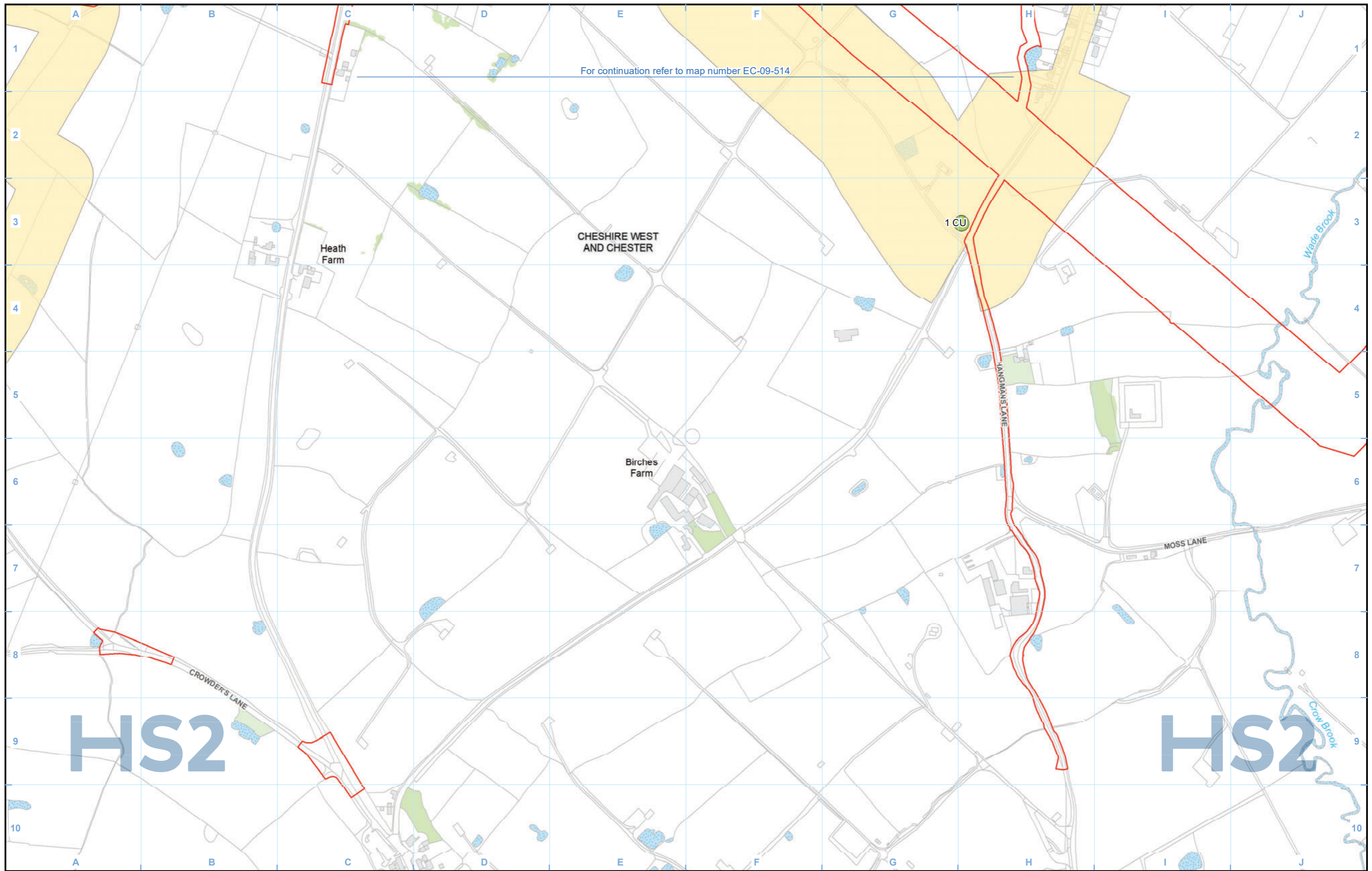
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003291-P01

Date: 12/08/21



For continuation refer to map number EC-09-514

Heath Farm

CHESHIRE WEST AND CHESTER

Birches Farm

1 CU

HANGMAN'S LANE

MOSS LANE

CROWDER'S LANE

Crow Brook

HS2

HS2

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-514-R1

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

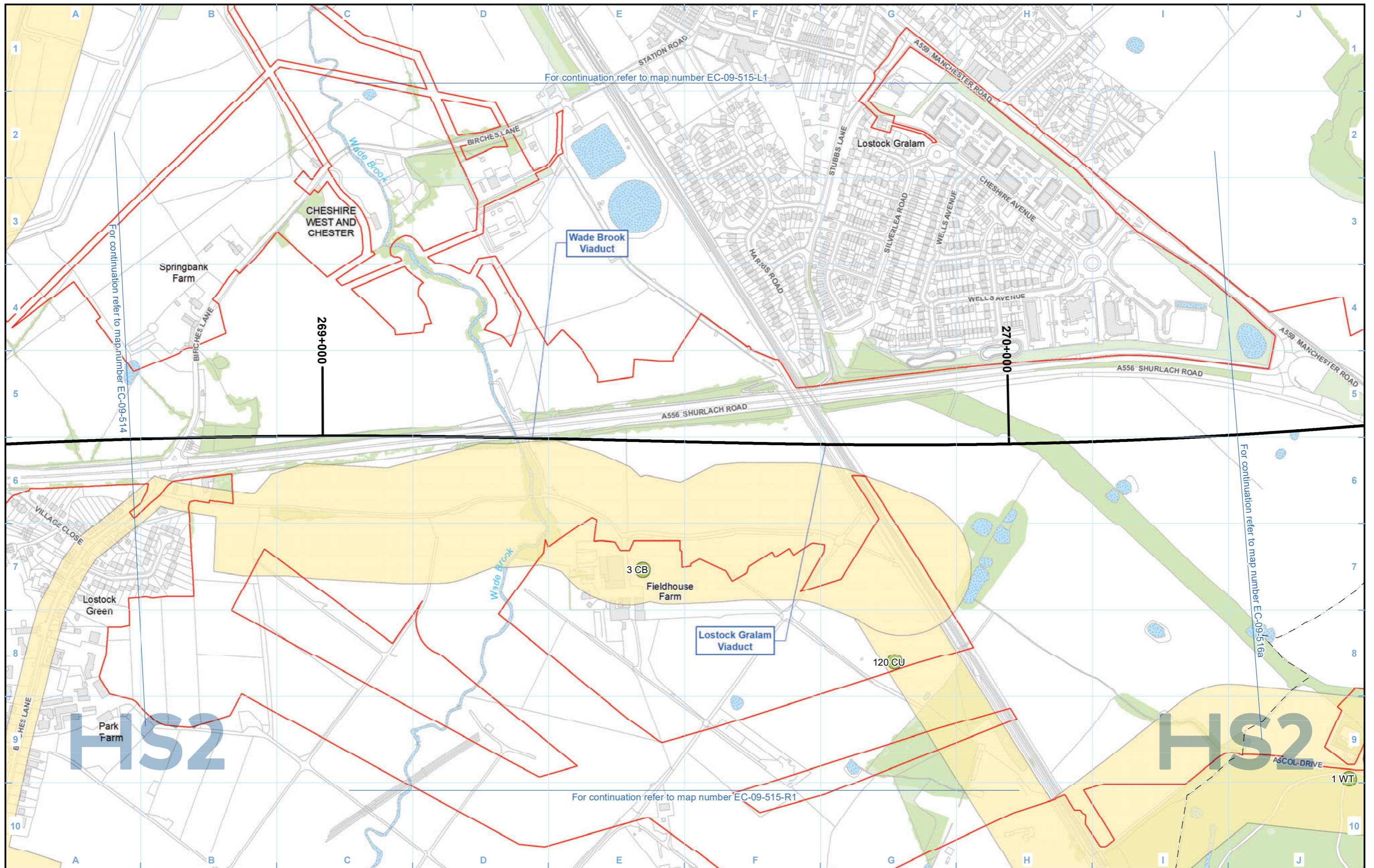
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Doc Number: 2DE01-MWJ-EV-MAP-M000-002849-P01

Date: 12/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-515

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

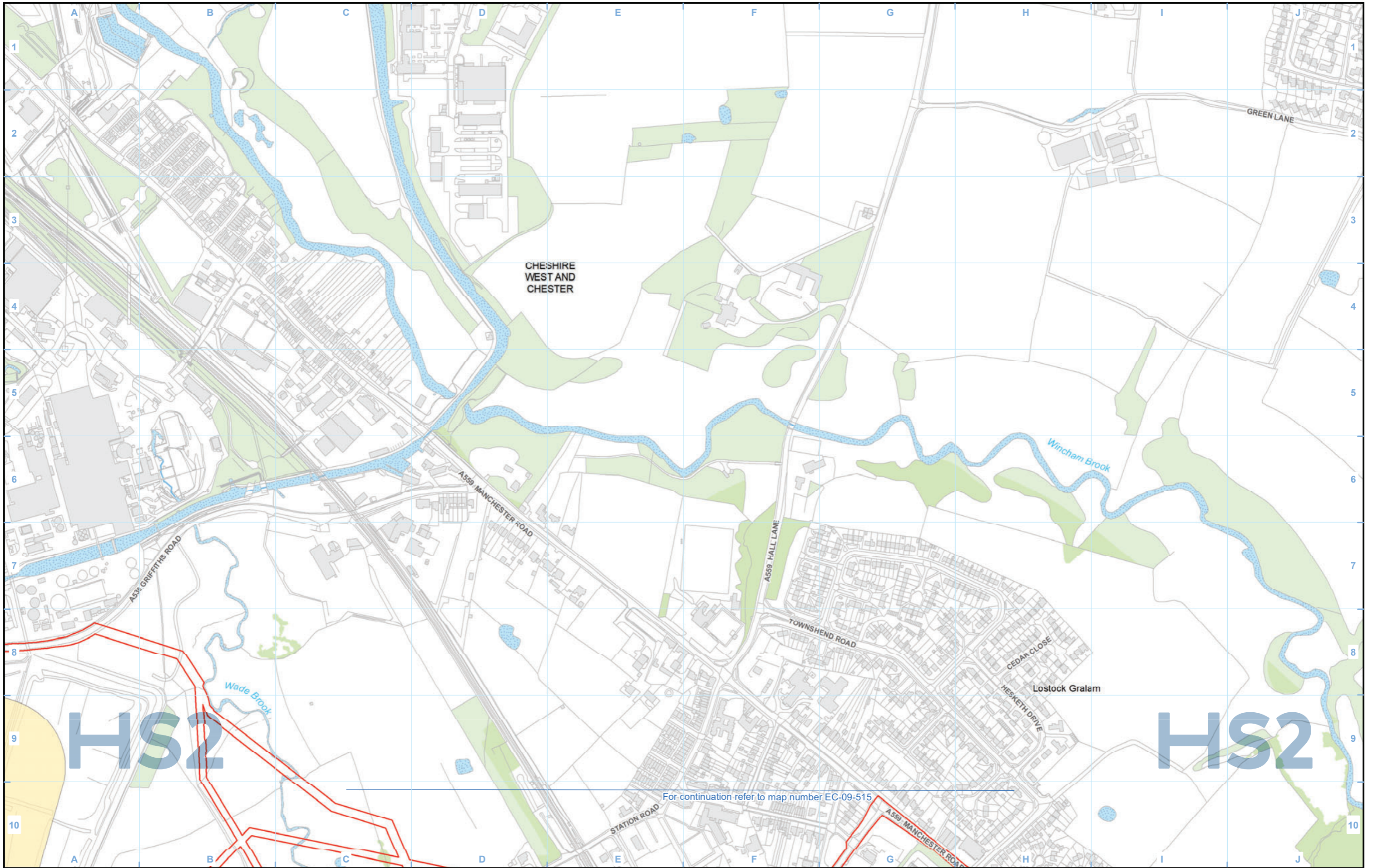
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Date: 12/08/21



For continuation refer to map number EC-09-515

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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-515-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

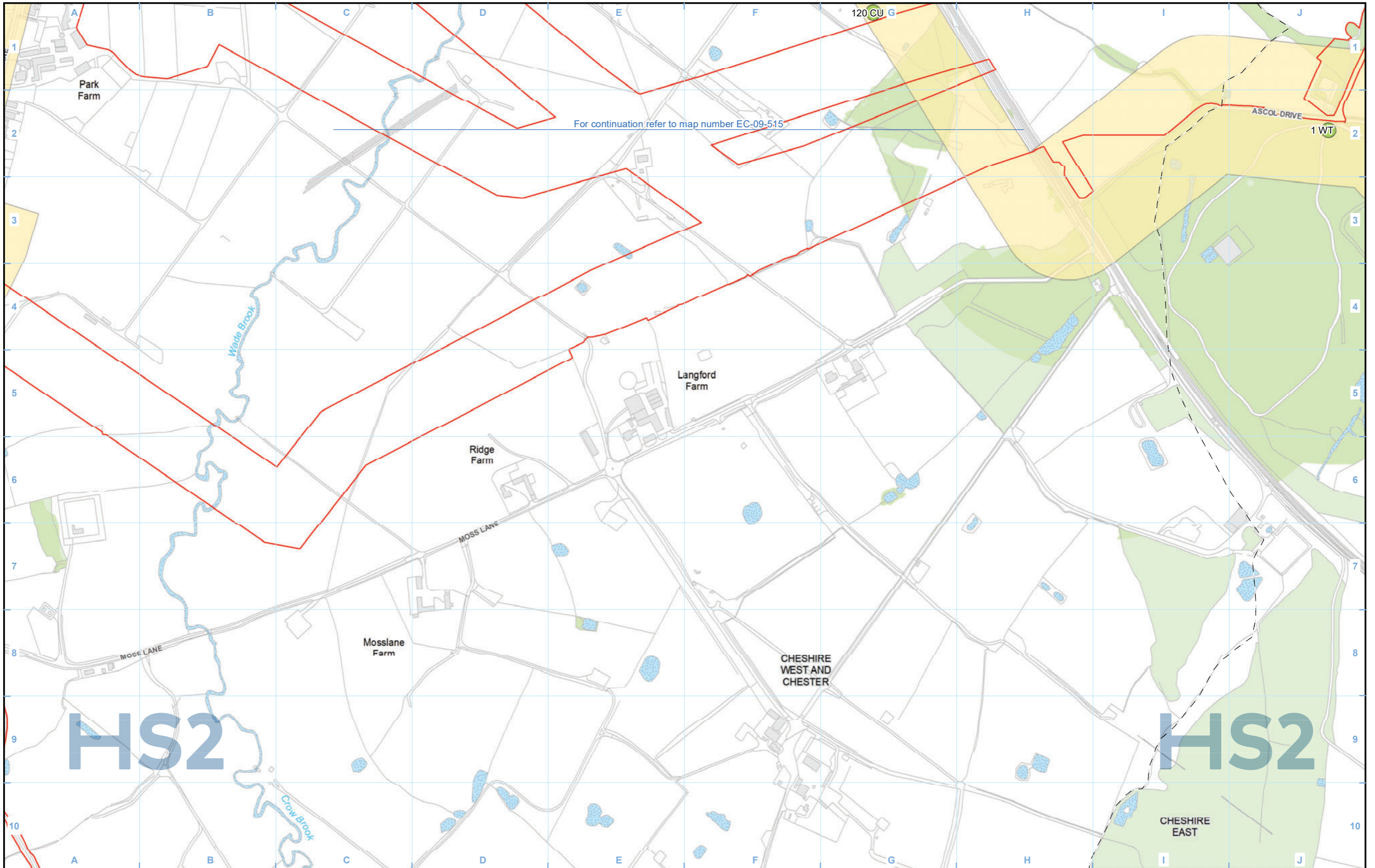
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For continuation refer to map number EC-09-515

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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-515-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

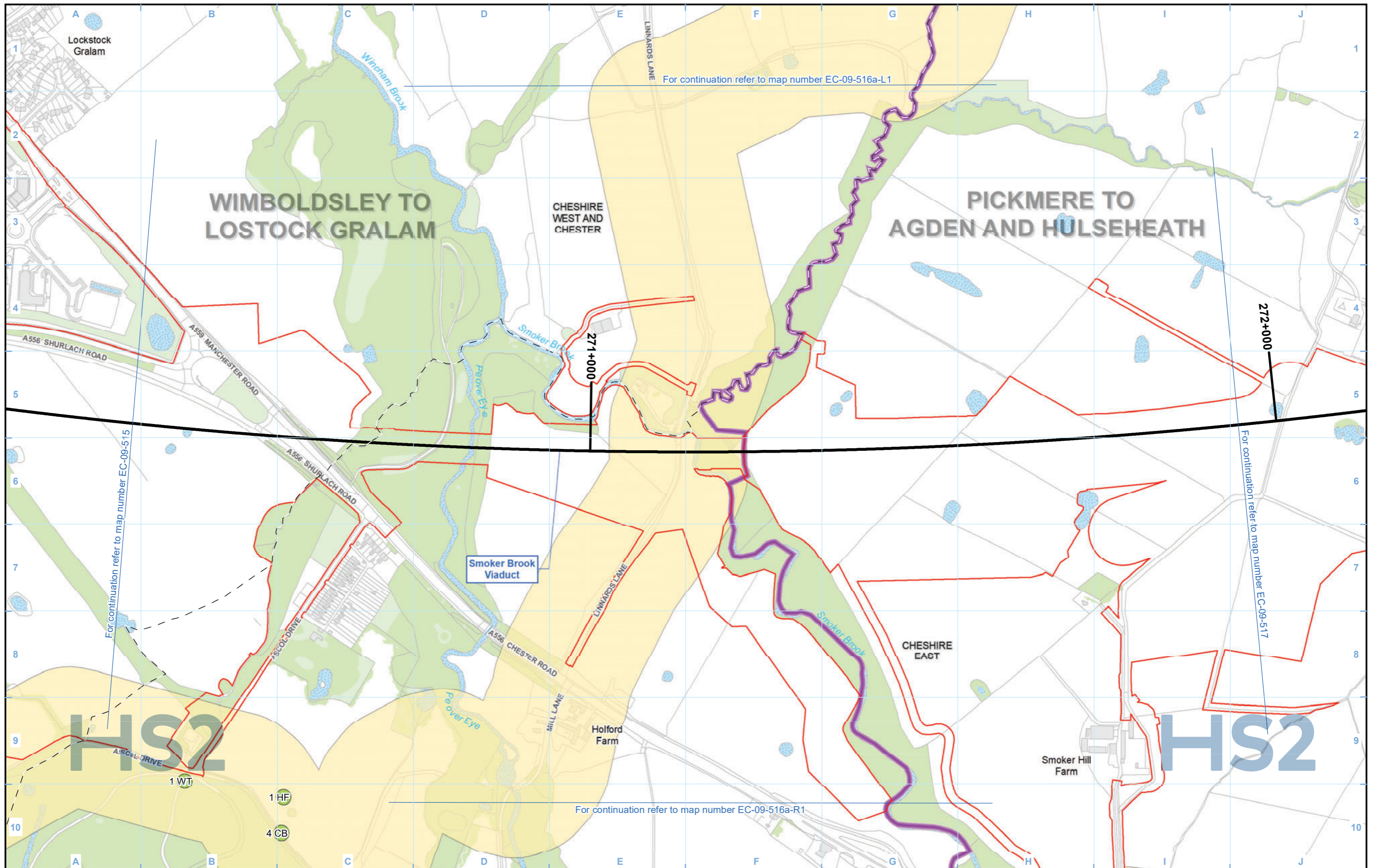
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-516a

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA02:
Wimboldsley to Lostock Gralam

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Date: 12/08/21



WIMBOLDSLEY TO LOSTOCK GRALAM

PICKMERE TO AGDEN AND HULSEHEATH

For continuation refer to map number EC-09-516

- 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)

- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act

- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment

- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-516a-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

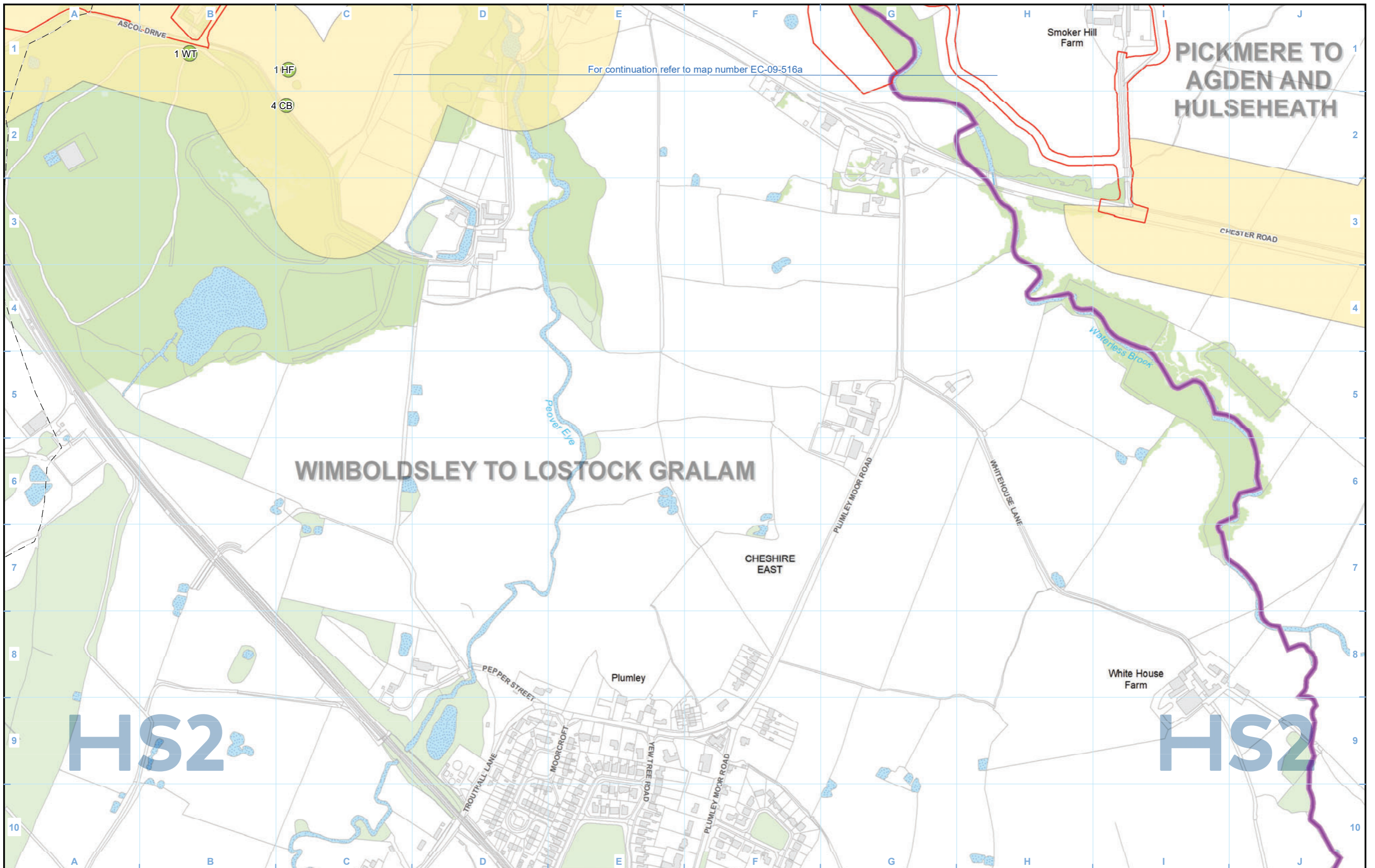
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Date: 12/08/21

Scale at A3: 1:5,000



For continuation refer to map number EC-09-516a

PICKMERE TO AGDEN AND HULSEHEATH

WIMBOLDSLEY TO LOSTOCK GRALAM

CHESHIRE EAST

Plumley

White House Farm

Hs2

Hs2

Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 	<ul style="list-style-type: none"> Wintering & passage birds - survey extent
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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-516a-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA02:
Wimboldsley to Lostock Gralam

Hs2

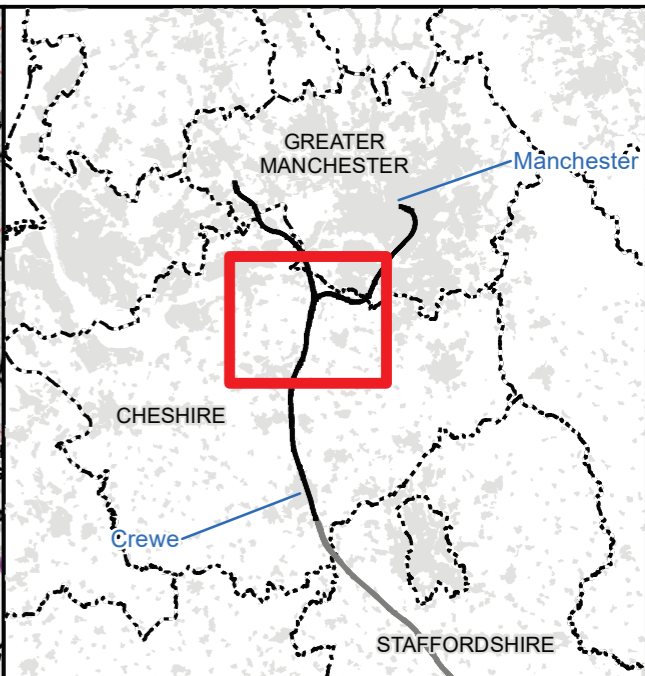
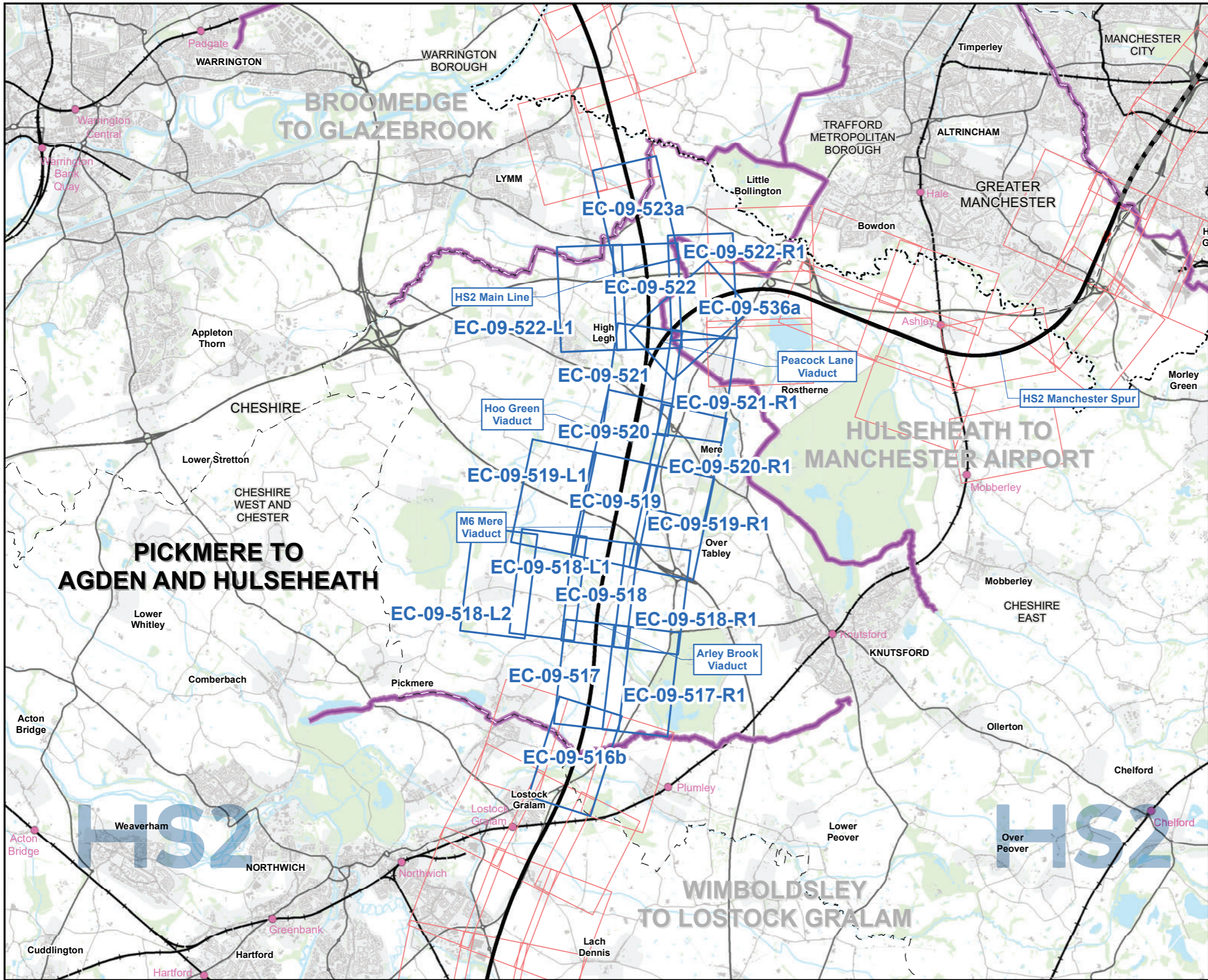
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Date: 12/08/21

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Map Series Information:

This map series shows records of protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.

Main Map Legend

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

Map Number EC-09-INDEX-MA03

Map Name
**Index Map of:
 Wintering and Passage Birds –
 Protected and Notable Species**

Community Area MA03:
 Pickmere to Agden and Hulseheath

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Date: 12/08/21

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

BTO SPECIES CODES

AC	Arctic Skua	D.	Dunnoek	K.	Kestrel	RN	Raven	SG	Starling
AE	Arctic Tern	EG	Egyptian Goose	KF	Kingfisher	RA	Razorbill	SD	Stock Dove
AV	Avocet	E.	Eider	KI	Kittiwake	RG	Red Grouse	SC	Stonechat
BO	Barn Owl	FP	Feral Pigeon	KN	Knot	KT	Red Kite	TN	Stone-curlew
BY	Barnacle Goose	ZL	Feral/hybrid goose	LM	Lady Amherst's Pheasant	ED	Red-backed Shrike	TM	Storm Petrel
BA	Bar-tailed Godwit	ZF	Feral/hybrid mallard type	LA	Lapland Bunting	RM	Red-breasted Merganser	SL	Swallow
BR	Bearded Tit	FF	Fieldfare	L.	Lapwing	RQ	Red-crested Pochard	SI	Swift
BS	Berwick's Swan	FC	Firecrest	TL	Leach's Petrel	FV	Red-footed Falcon	TO	Tawny Owl
BI	Bittern	F.	Fulmar	LB	Lesser Black-backed Gull	RL	Red-legged Partridge	T.	Teal
BK	Black Grouse	GA	Gadwall	LS	Lesser Spotted Woodpecker	NK	Red-necked Phalarope	TK	Temminck's Stint
TY	Black Guillemot	GX	Gannet	LW	Lesser Whitethroat	LR	Redpoll (Lesser)	TP	Tree Pipit
BX	Black Redstart	GW	Garden Warbler	LI	Linnet	RK	Redshank	TS	Tree Sparrow
BJ	Black Tern	GY	Garganey	ET	Little Egret	RT	Redstart	TC	Treecreeper
B.	Blackbird	GC	Goldcrest	LG	Little Grebe	RH	Red-throated Diver	TU	Tufted Duck
BC	Blackcap	EA	Golden Eagle	LU	Little Gull	RE	Redwing	TT	Turnstone
BH	Black-headed Gull	OL	Golden Oriole	LO	Little Owl	RB	Reed Bunting	TD	Turtle Dove
BN	Black-necked Grebe	GF	Golden Pheasant	LP	Little Ringed Plover	RW	Reed Warbler	TW	Twite
BW	Black-tailed Godwit	GP	Golden Plover	AF	Little Tern	RZ	Ring Ouzel	WA	Water Rail
BV	Black-throated Diver	GN	Goldeneye	LE	Long-eared Owl	RP	Ringed Plover	W.	Wheatear
BT	Blue Tit	GO	Goldfinch	LT	Long-tailed Tit	RI	Ring-necked Parakeet	WM	Whimbrel
BU	Bluethroat	GD	Goosander	MG	Magpie	R.	Robin	WC	Whinchat
BL	Brambling	GI	Goshawk	MA	Mallard	DV	Rock Dove (not feral)	WG	White-fronted Goose
BG	Brent Goose	GH	Grasshopper Warbler	MN	Mandarin Duck	RC	Rock Pipit	WH	Whitethroat
BF	Bullfinch	GB	Great Black-backed Gull	MX	Manx Shearwater	RO	Rook	WS	Whooper Swan
BZ	Buzzard	GG	Great Crested Grebe	MR	Marsh Harrier	RS	Roseate Tern	WN	Wigeon
CG	Canada Goose	ND	Great Northern Diver	MT	Marsh Tit	RY	Ruddy Duck	WT	Willow Tit
CP	Capercaillie	NX	Great Skua	MW	Marsh Warbler	RU	Ruff	WW	Willow Warbler
C.	Carrion Crow	GS	Great Spotted Woodpecker	MP	Meadow Pipit	SM	Sand Martin	OD	Wood Sandpiper
CW	Cetti's Warbler	GT	Great Tit	MU	Mediterranean Gull	SS	Sanderling	WO	Wood Warbler
CH	Chaffinch	GE	Green Sandpiper	ML	Merlin	TE	Sandwich Tern	WK	Woodcock
CC	Chiffchaff	G.	Green Woodpecker	M.	Mistle Thrush	VI	Savi's Warbler	WL	Woodlark
CF	Chough	GR	Greenfinch	MO	Montagu's Harrier	SQ	Scarlet Rosefinch	WP	Woodpigeon
CL	Cirl Bunting	GK	Greenshank	MH	Moorhen	SP	Scaup	WR	Wren
CT	Coal Tit	H.	Grey Heron	MS	Mute Swan	CY	Scottish Crossbill	WY	Wryneck
CD	Collared Dove	P.	Grey Partridge	N.	Nightingale	SW	Sedge Warbler	YW	Yellow Wagtail
CM	Common Gull	GV	Grey Plover	NJ	Nightjar	NS	Serin	Y.	Yellowhammer
CS	Common Sandpiper	GL	Grey Wagtail	NH	Nuthatch	SA	Shag		
CX	Common Scoter	GJ	Greylag Goose	OP	Osprey	SU	Shelduck		
CN	Common Tern	GU	Guillemot	OC	Oystercatcher	SX	Shorelark		
CO	Coot	FW	Guineafowl (Helmeted)	PX	Peafowl/Peacock	SE	Short-eared Owl		
CA	Cormorant	HF	Hawfinch	PE	Peregrine	SV	Shoveler		
CB	Corn Bunting	HH	Hen Harrier	PH	Pheasant	SK	Siskin		
CE	Corncrake	HG	Herring Gull	PF	Pied Flycatcher	S.	Skylark		
CI	Crested Tit	HY	Hobby	PW	Pied Wagtail	SZ	Slavonian Grebe		
CR	Crossbill (Common)	HZ	Honey Buzzard	PG	Pink-footed Goose	SN	Snipe		
CK	Cuckoo	HC	Hooded Crow	PT	Pintail	SB	Snow Bunting		
CU	Curlew	HP	Hoopoe	PO	Pochard	ST	Song Thrush		
DW	Dartford Warbler	HM	House Martin	PM	Ptarmigan	SH	Sparrowhawk		
DI	Dipper	HS	House Sparrow	PU	Puffin	AK	Spotted Crake		
DO	Dotterel	JD	Jackdaw	PS	Purple Sandpiper	SF	Spotted Flycatcher		
DN	Dunlin	J.	Jay	Q.	Quail	DR	Spotted Redshank		

Map Number	EC-09 Legend
Map Name	EC-09 BTO Bird Species Legend

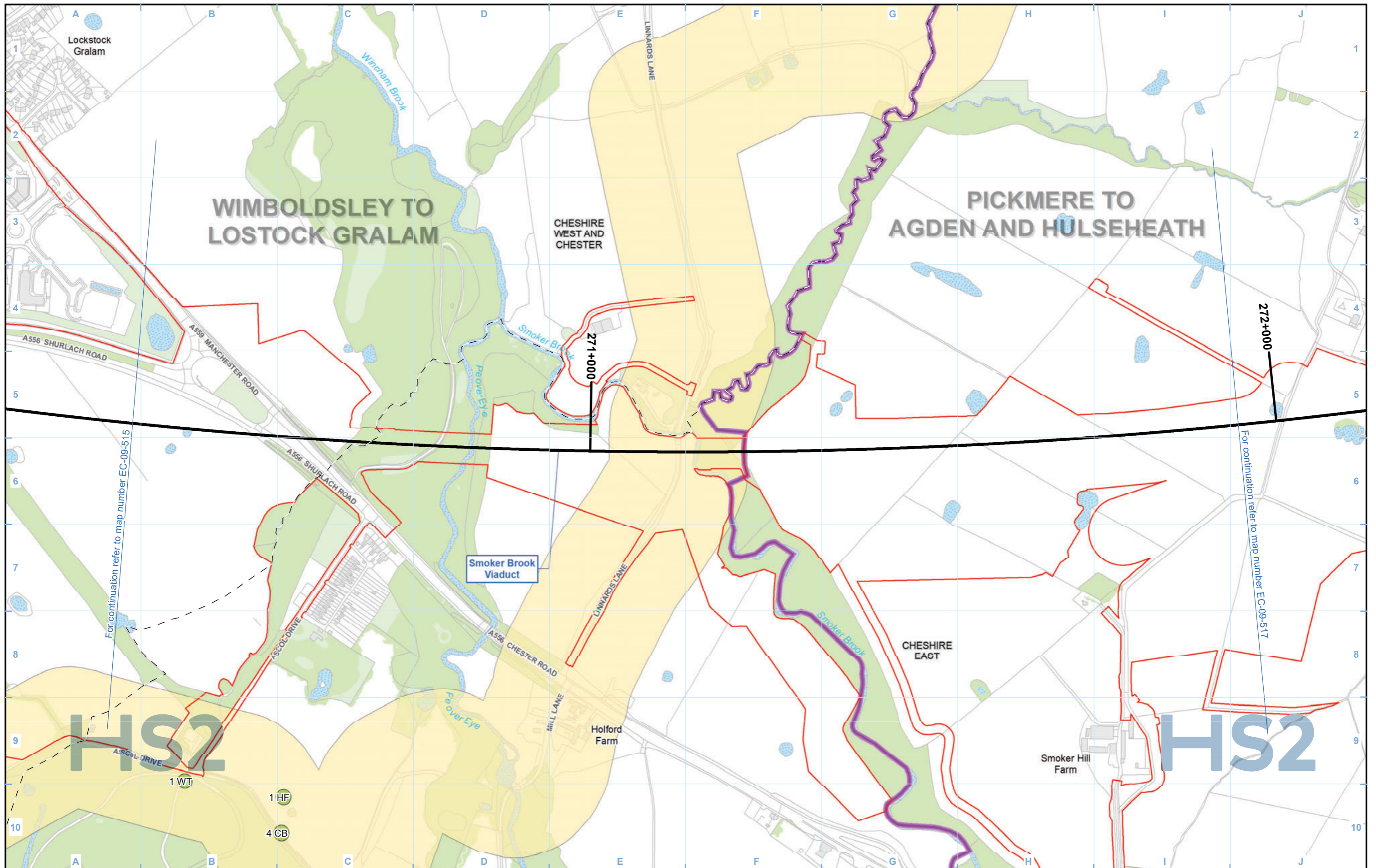
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Legend

- 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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-516b

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseheath

HS2

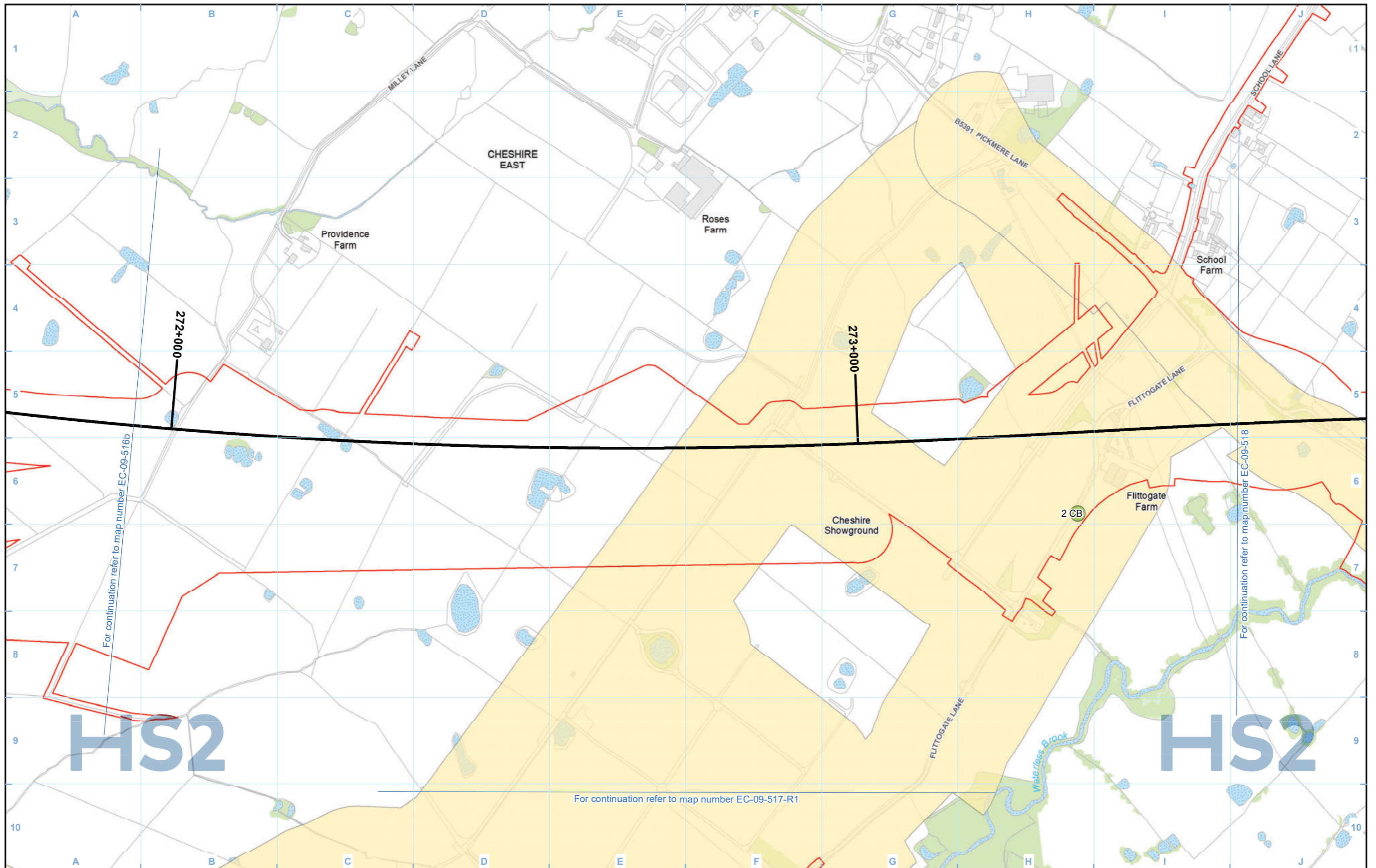
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number EC-09-517

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area MA03:
Pickmere to Agden and Hulseheath

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Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 	<ul style="list-style-type: none"> Wintering & passage birds - survey extent
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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-517-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

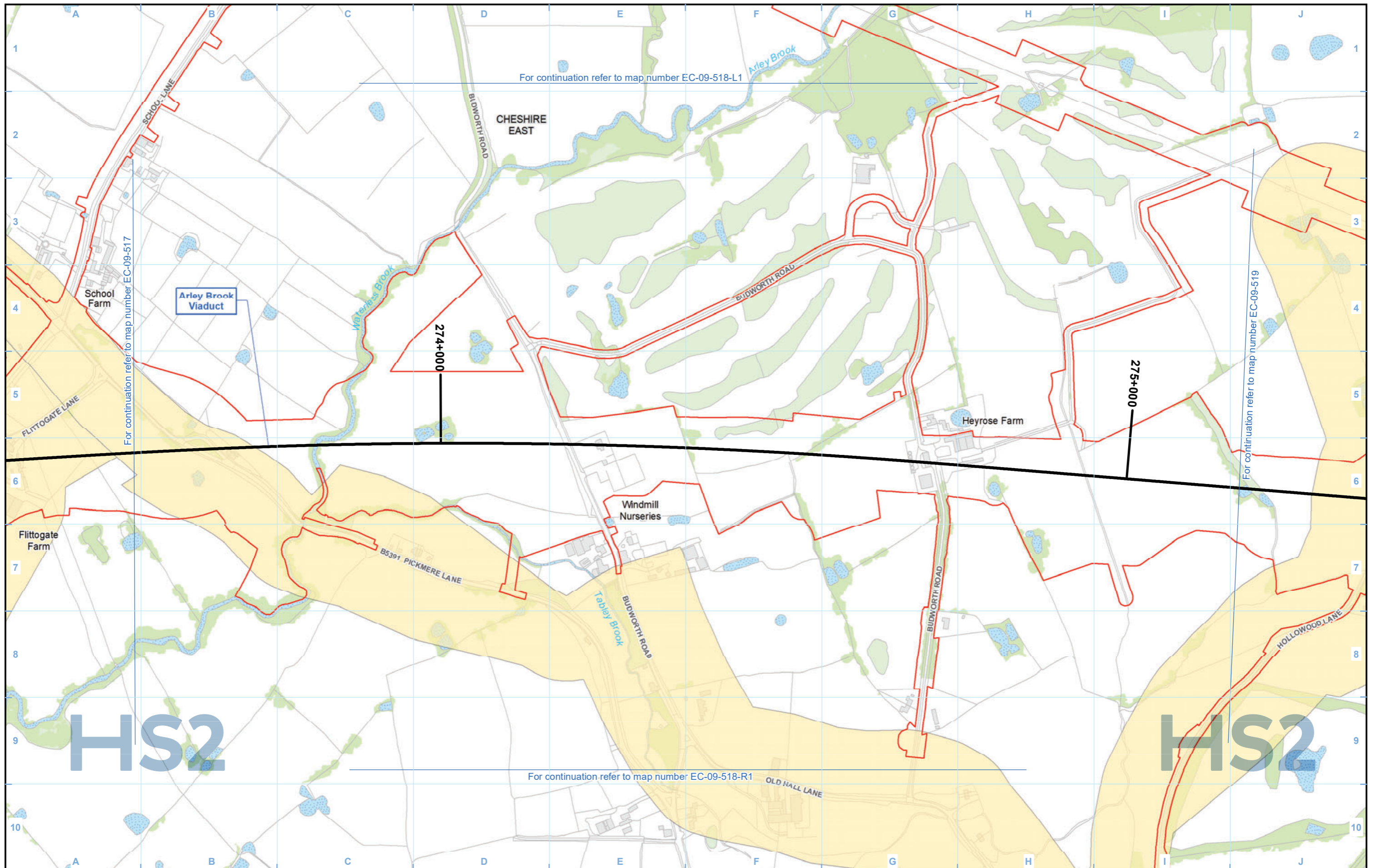
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Legend

- 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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number	EC-09-518
Map Name	Wintering and Passage Birds – Protected and Notable Species
	Community Area MA03: Pickmere to Agden and Hulseheath

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Metres

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-518-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

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For continuation refer to map number EC-09-518-L1

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-518-L2**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

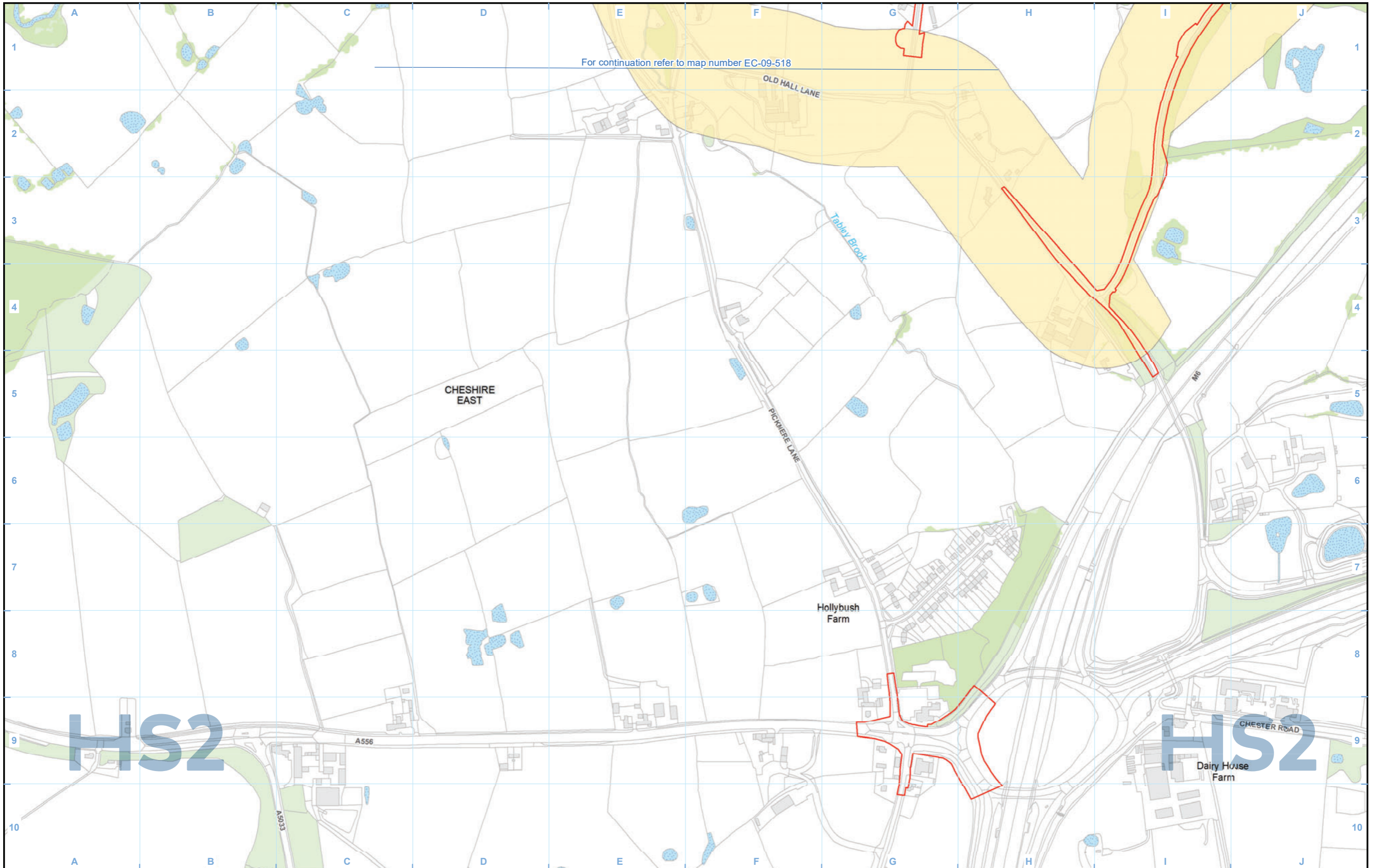
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For continuation refer to map number EC-09-518

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-518-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseath

HS2

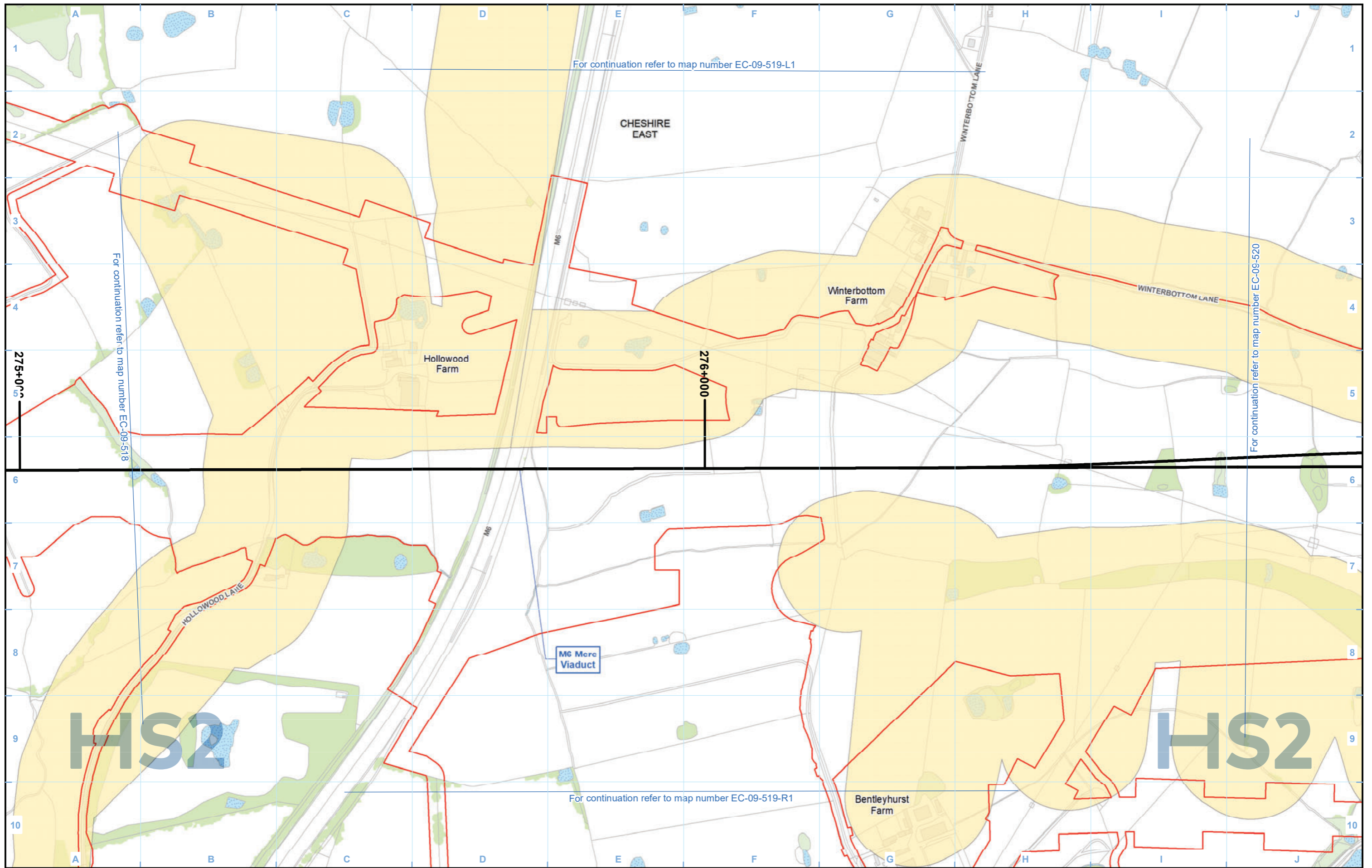
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-519

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA03:
Pickmere to Agden and Hulseath

HS2

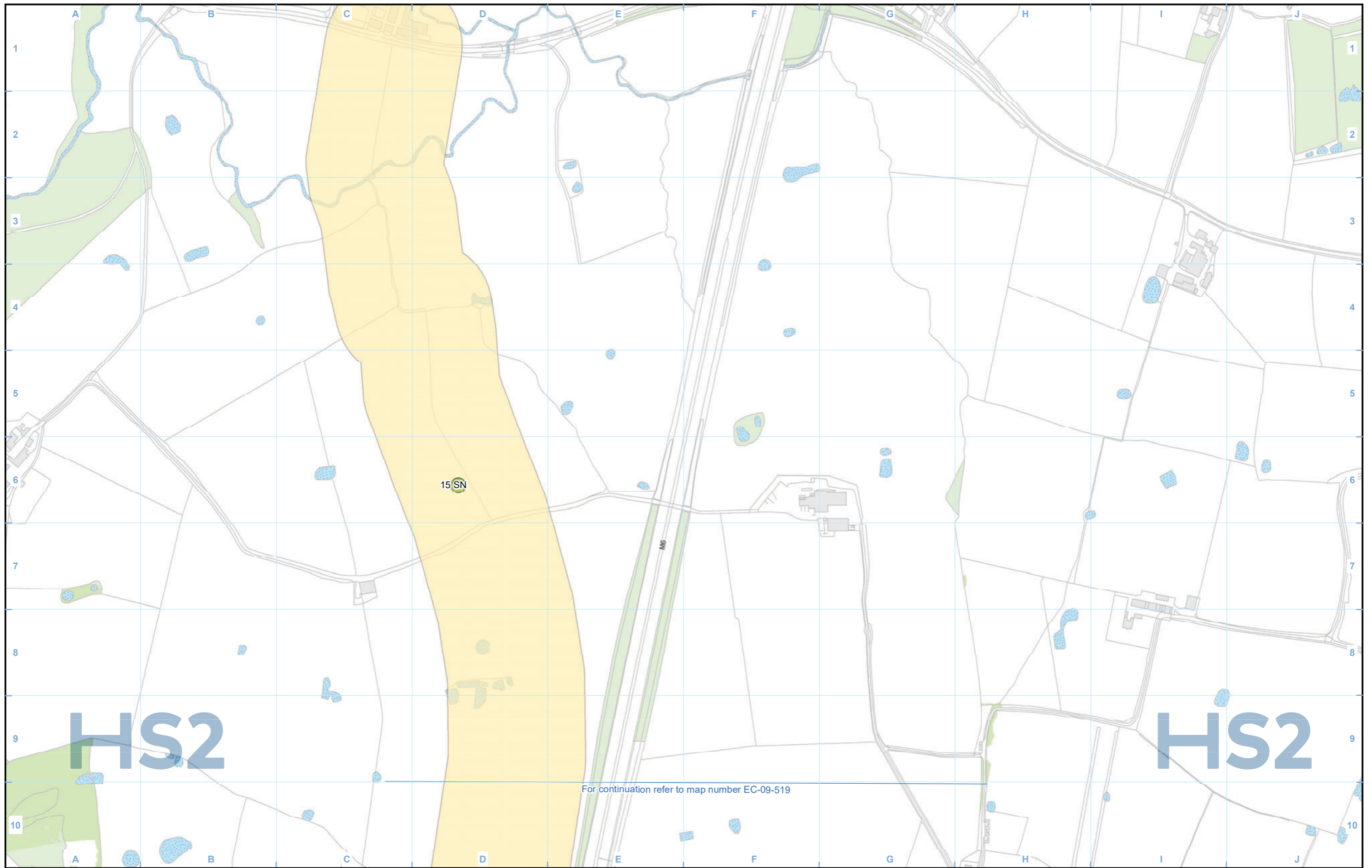
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-519-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

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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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-519-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

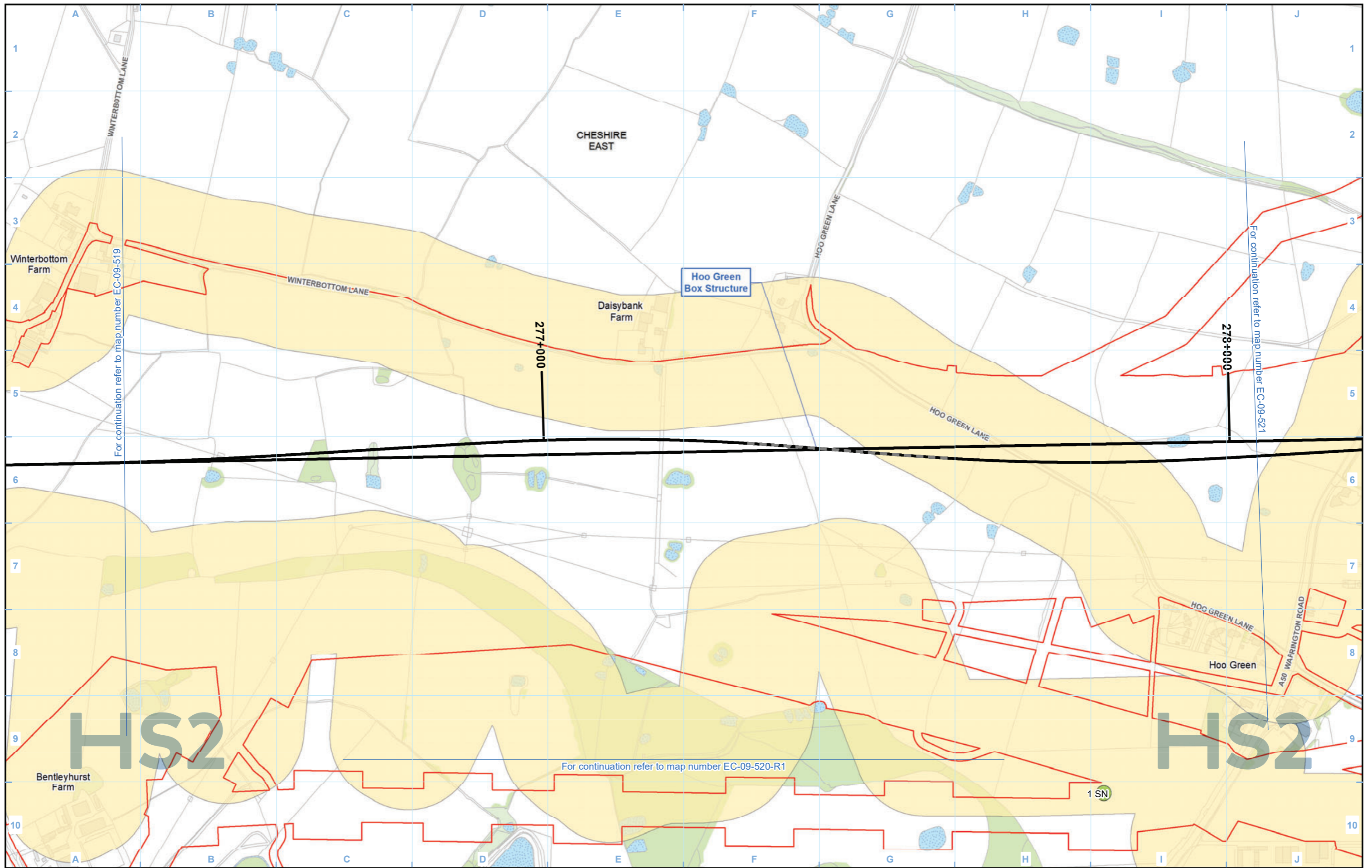
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-520

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseheath

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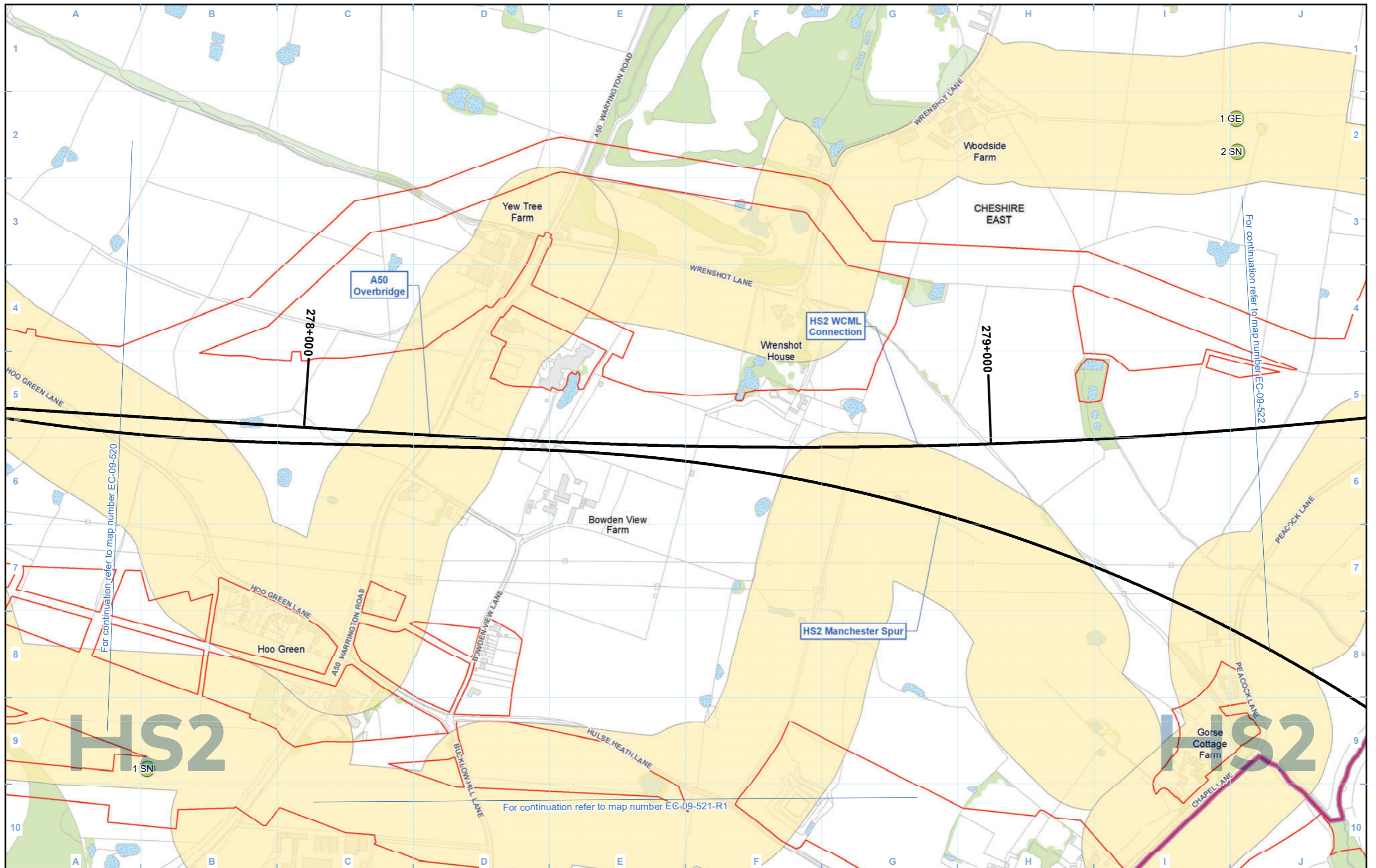
Legend

- | | | | | |
|--|---|--|---|--|
| <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) | <ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act | <ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment | <ul style="list-style-type: none"> Wintering & passage birds - survey extent |
|--|---|--|---|--|

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number	EC-09-520-R1
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area MA03: Pickmere to Agden and Hulseheath	

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-521

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseheath

HS2

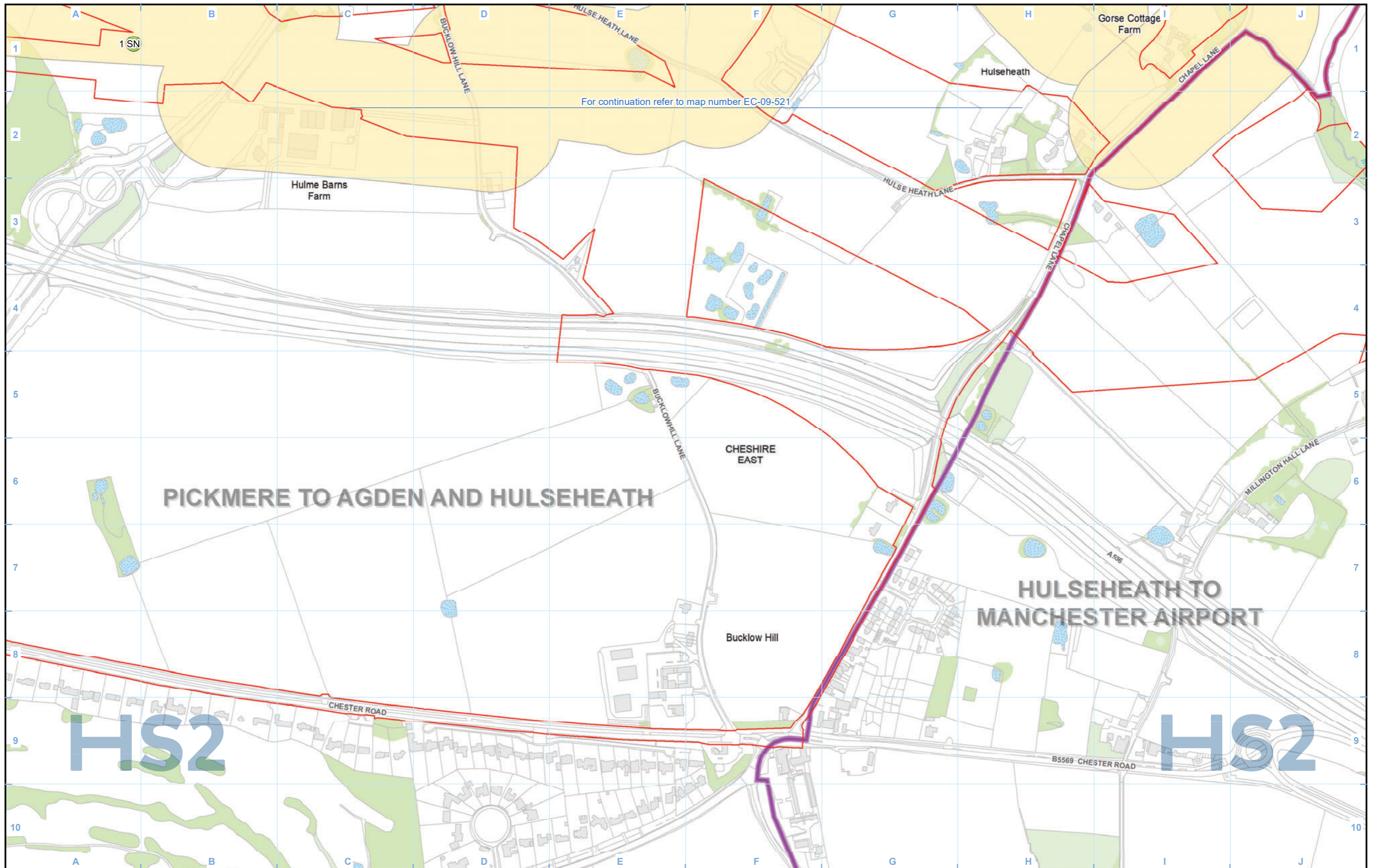
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PICKMERE TO AGDEN AND HULSEHEATH

HULSEHEATH TO MANCHESTER AIRPORT

HS2

HS2

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-521-R1

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseheath

HS2

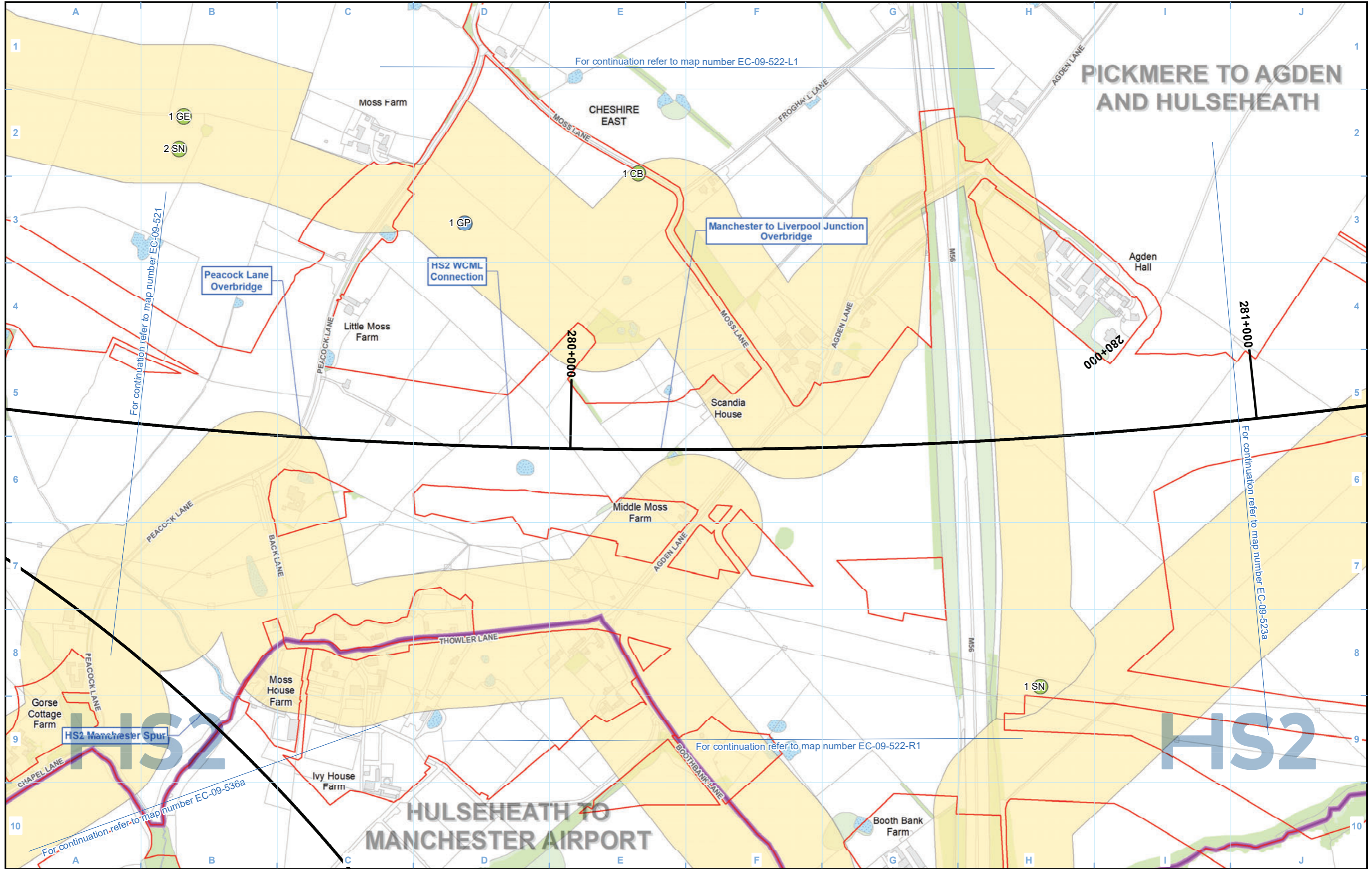
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PICKMERE TO AGDEN AND HULSEHEATH

HULSEHEATH TO MANCHESTER AIRPORT

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-522**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

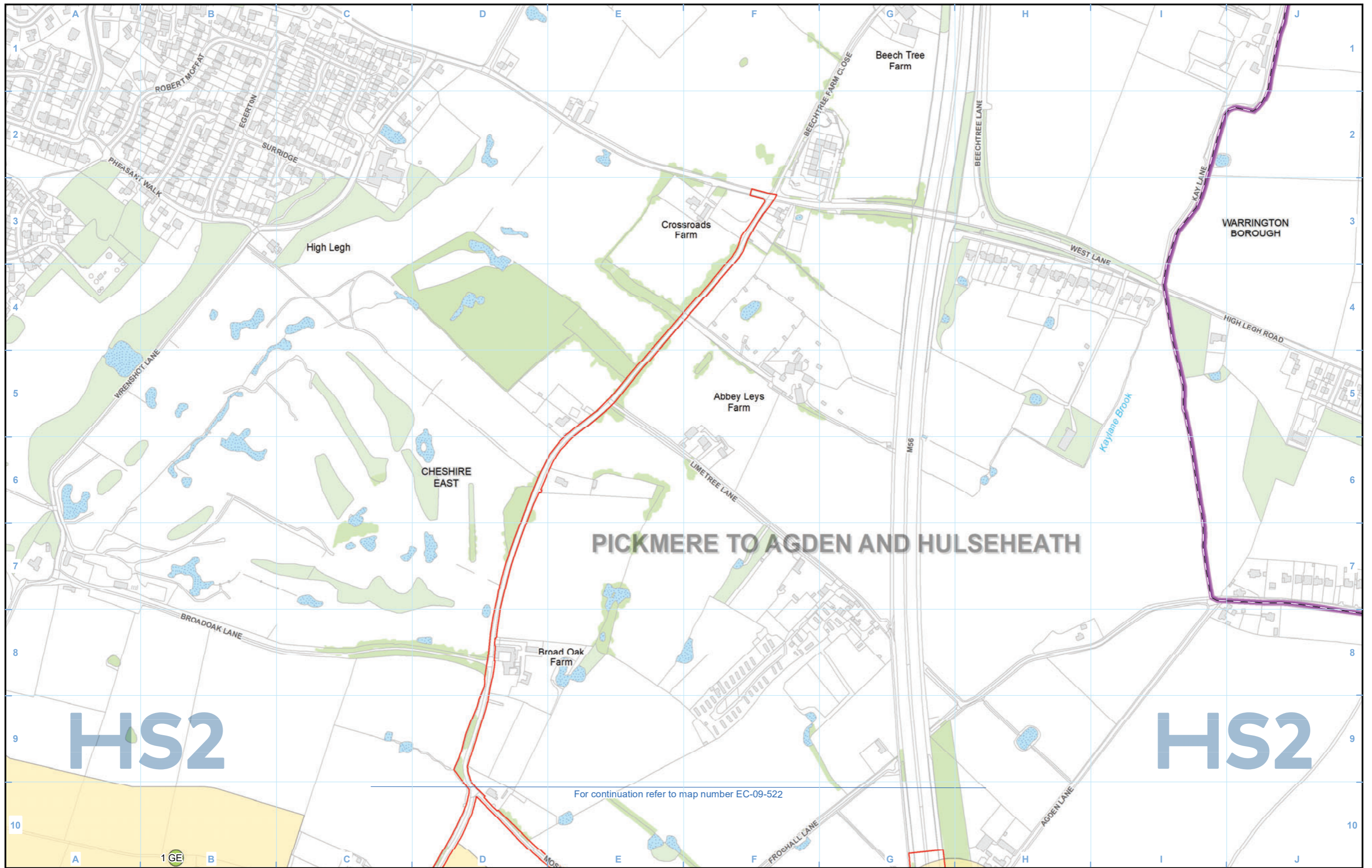
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PICKMERE TO AGDEN AND HULSEHEATH

HS2

HS2

For continuation refer to map number EC-09-522

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-522-L1

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseheath

HS2

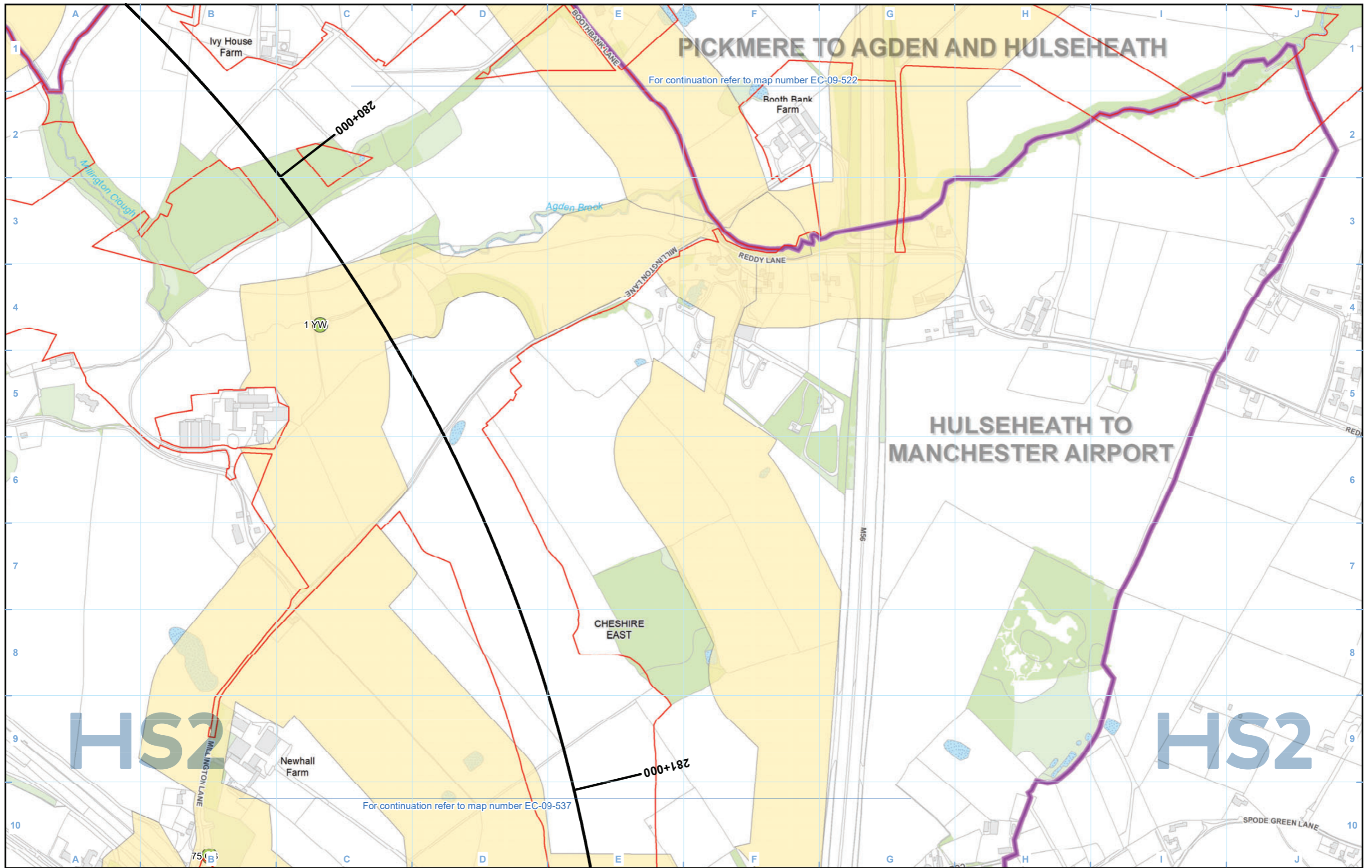
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-522-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA03:
Pickmere to Agden and Hulseheath

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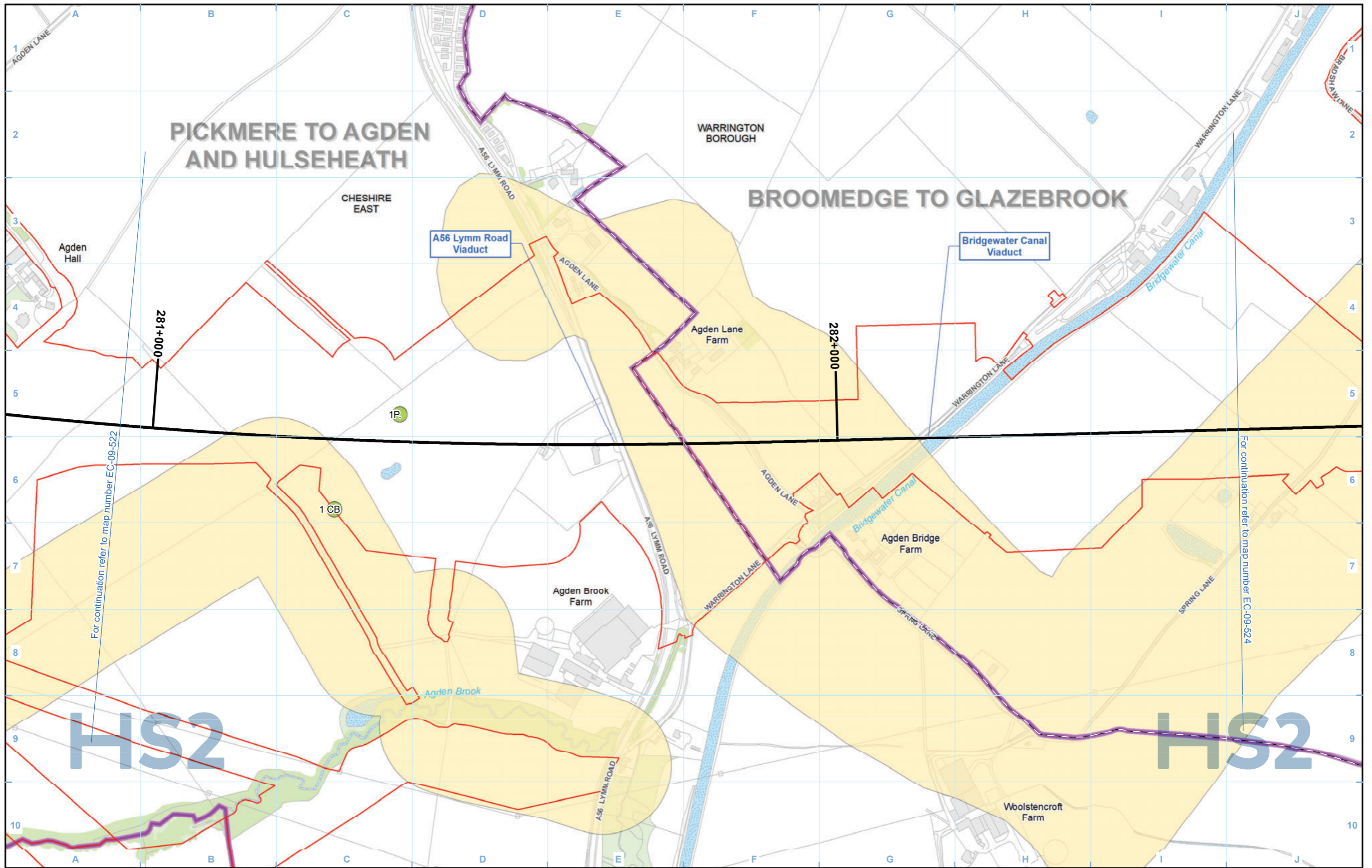
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-523a

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseheath

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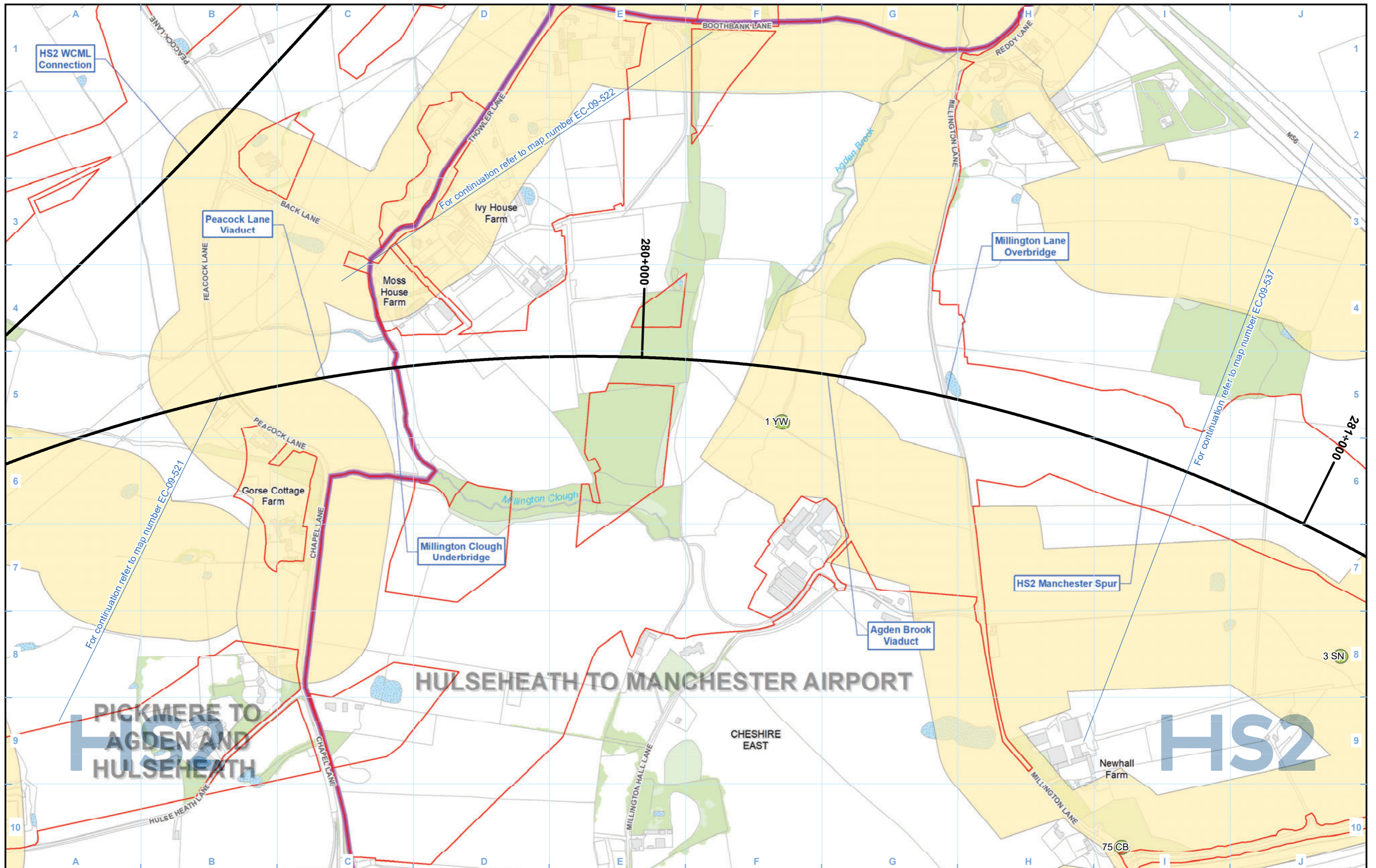
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001255-P01

Date: 12/08/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-536a

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA03: Pickmere to Agden and Hulseheath

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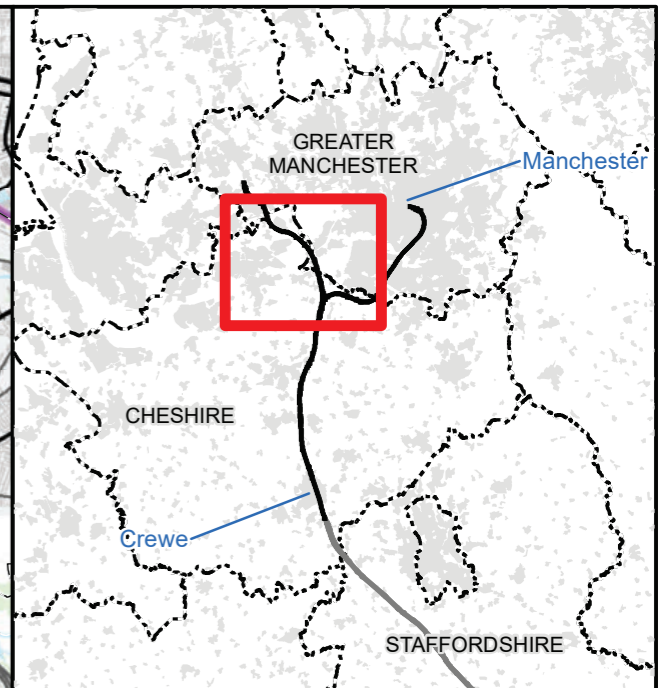
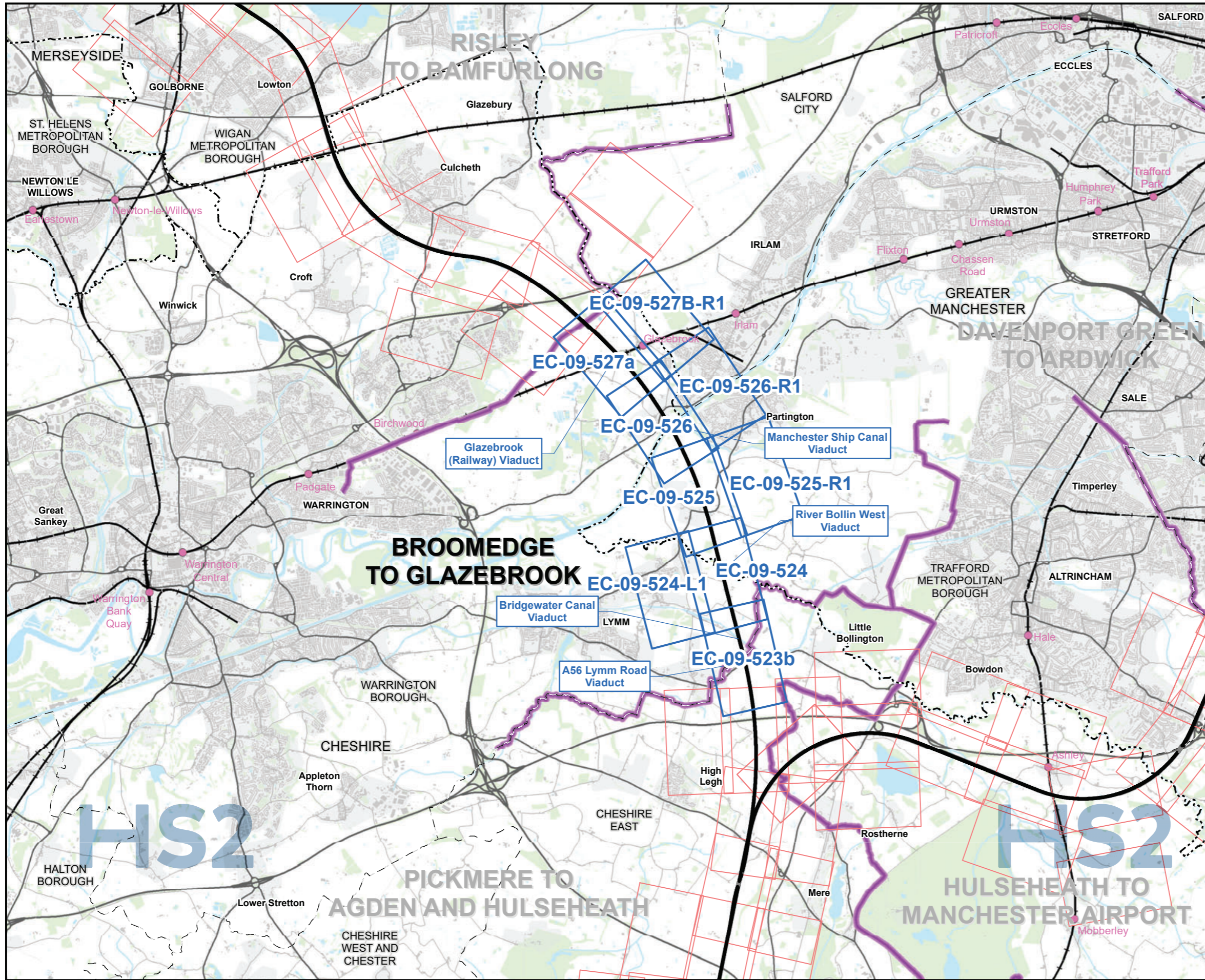
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Date: 12/08/21

Scale at A3: 1:5,000

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Map Series Information:

This map series shows records of protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.

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

Map Number	EC-09-INDEX-MA04
Map Name	Index Map of: Wintering and Passage Birds – Protected and Notable Species
Community Area MA04: Broomedge to Glazebrook	

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Doc Number: 2DE01-MWJ-EV-MAP-M000-001296-P01 **Date:** 12/08/21

BTO SPECIES CODES

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AE	Arctic Tern	EG	Egyptian Goose	KF	Kingfisher	RA	Razorbill	SD	Stock Dove
AV	Avocet	E.	Eider	KI	Kittiwake	RG	Red Grouse	SC	Stonechat
BO	Barn Owl	FP	Feral Pigeon	KN	Knot	KT	Red Kite	TN	Stone-curlew
BY	Barnacle Goose	ZL	Feral/hybrid goose	LM	Lady Amherst's Pheasant	ED	Red-backed Shrike	TM	Storm Petrel
BA	Bar-tailed Godwit	ZF	Feral/hybrid mallard type	LA	Lapland Bunting	RM	Red-breasted Merganser	SL	Swallow
BR	Bearded Tit	FF	Fieldfare	L.	Lapwing	RQ	Red-crested Pochard	SI	Swift
BS	Berwick's Swan	FC	Firecrest	TL	Leach's Petrel	FV	Red-footed Falcon	TO	Tawny Owl
BI	Bittern	F.	Fulmar	LB	Lesser Black-backed Gull	RL	Red-legged Partridge	T.	Teal
BK	Black Grouse	GA	Gadwall	LS	Lesser Spotted Woodpecker	NK	Red-necked Phalarope	TK	Temminck's Stint
TY	Black Guillemot	GX	Gannet	LW	Lesser Whitethroat	LR	Redpoll (Lesser)	TP	Tree Pipit
BX	Black Redstart	GW	Garden Warbler	LI	Linnet	RK	Redshank	TS	Tree Sparrow
BJ	Black Tern	GY	Garganey	ET	Little Egret	RT	Redstart	TC	Treecreeper
B.	Blackbird	GC	Goldcrest	LG	Little Grebe	RH	Red-throated Diver	TU	Tufted Duck
BC	Blackcap	EA	Golden Eagle	LU	Little Gull	RE	Redwing	TT	Turnstone
BH	Black-headed Gull	OL	Golden Oriole	LO	Little Owl	RB	Reed Bunting	TD	Turtle Dove
BN	Black-necked Grebe	GF	Golden Pheasant	LP	Little Ringed Plover	RW	Reed Warbler	TW	Twite
BW	Black-tailed Godwit	GP	Golden Plover	AF	Little Tern	RZ	Ring Ouzel	WA	Water Rail
BV	Black-throated Diver	GN	Goldeneye	LE	Long-eared Owl	RP	Ringed Plover	W.	Wheatear
BT	Blue Tit	GO	Goldfinch	LT	Long-tailed Tit	RI	Ring-necked Parakeet	WM	Whimbrel
BU	Bluethroat	GD	Goosander	MG	Magpie	R.	Robin	WC	Whinchat
BL	Brambling	GI	Goshawk	MA	Mallard	DV	Rock Dove (not feral)	WG	White-fronted Goose
BG	Brent Goose	GH	Grasshopper Warbler	MN	Mandarin Duck	RC	Rock Pipit	WH	Whitethroat
BF	Bullfinch	GB	Great Black-backed Gull	MX	Manx Shearwater	RO	Rook	WS	Whooper Swan
BZ	Buzzard	GG	Great Crested Grebe	MR	Marsh Harrier	RS	Roseate Tern	WN	Wigeon
CG	Canada Goose	ND	Great Northern Diver	MT	Marsh Tit	RY	Ruddy Duck	WT	Willow Tit
CP	Capercaillie	NX	Great Skua	MW	Marsh Warbler	RU	Ruff	WW	Willow Warbler
C.	Carrion Crow	GS	Great Spotted Woodpecker	MP	Meadow Pipit	SM	Sand Martin	OD	Wood Sandpiper
CW	Cetti's Warbler	GT	Great Tit	MU	Mediterranean Gull	SS	Sanderling	WO	Wood Warbler
CH	Chaffinch	GE	Green Sandpiper	ML	Merlin	TE	Sandwich Tern	WK	Woodcock
CC	Chiffchaff	G.	Green Woodpecker	M.	Mistle Thrush	VI	Savi's Warbler	WL	Woodlark
CF	Chough	GR	Greenfinch	MO	Montagu's Harrier	SQ	Scarlet Rosefinch	WP	Woodpigeon
CL	Cirl Bunting	GK	Greenshank	MH	Moorhen	SP	Scaup	WR	Wren
CT	Coal Tit	H.	Grey Heron	MS	Mute Swan	CY	Scottish Crossbill	WY	Wryneck
CD	Collared Dove	P.	Grey Partridge	N.	Nightingale	SW	Sedge Warbler	YW	Yellow Wagtail
CM	Common Gull	GV	Grey Plover	NJ	Nightjar	NS	Serin	Y.	Yellowhammer
CS	Common Sandpiper	GL	Grey Wagtail	NH	Nuthatch	SA	Shag		
CX	Common Scoter	GJ	Greylag Goose	OP	Osprey	SU	Shelduck		
CN	Common Tern	GU	Guillemot	OC	Oystercatcher	SX	Shorelark		
CO	Coot	FW	Guineafowl (Helmeted)	PX	Peafowl/Peacock	SE	Short-eared Owl		
CA	Cormorant	HF	Hawfinch	PE	Peregrine	SV	Shoveler		
CB	Corn Bunting	HH	Hen Harrier	PH	Pheasant	SK	Siskin		
CE	Corncrake	HG	Herring Gull	PF	Pied Flycatcher	S.	Skylark		
CI	Crested Tit	HY	Hobby	PW	Pied Wagtail	SZ	Slavonian Grebe		
CR	Crossbill (Common)	HZ	Honey Buzzard	PG	Pink-footed Goose	SN	Snipe		
CK	Cuckoo	HC	Hooded Crow	PT	Pintail	SB	Snow Bunting		
CU	Curlew	HP	Hoopoe	PO	Pochard	ST	Song Thrush		
DW	Dartford Warbler	HM	House Martin	PM	Ptarmigan	SH	Sparrowhawk		
DI	Dipper	HS	House Sparrow	PU	Puffin	AK	Spotted Crake		
DO	Dotterel	JD	Jackdaw	PS	Purple Sandpiper	SF	Spotted Flycatcher		
DN	Dunlin	J.	Jay	Q.	Quail	DR	Spotted Redshank		

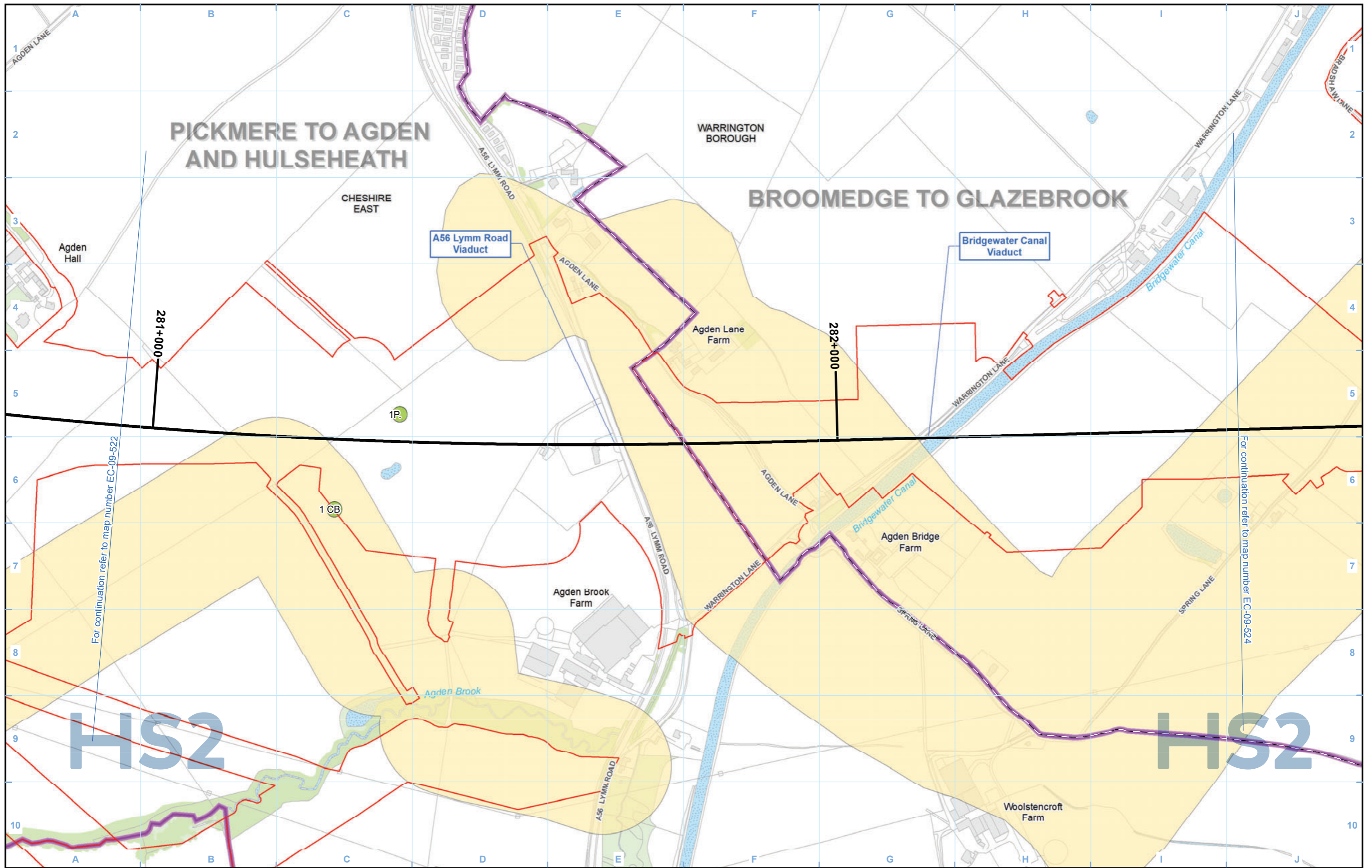
Map Number	EC-09 Legend
Map Name	EC-09 BTO Bird Species Legend

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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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-523b

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA04: Broomedge to Glazebrook

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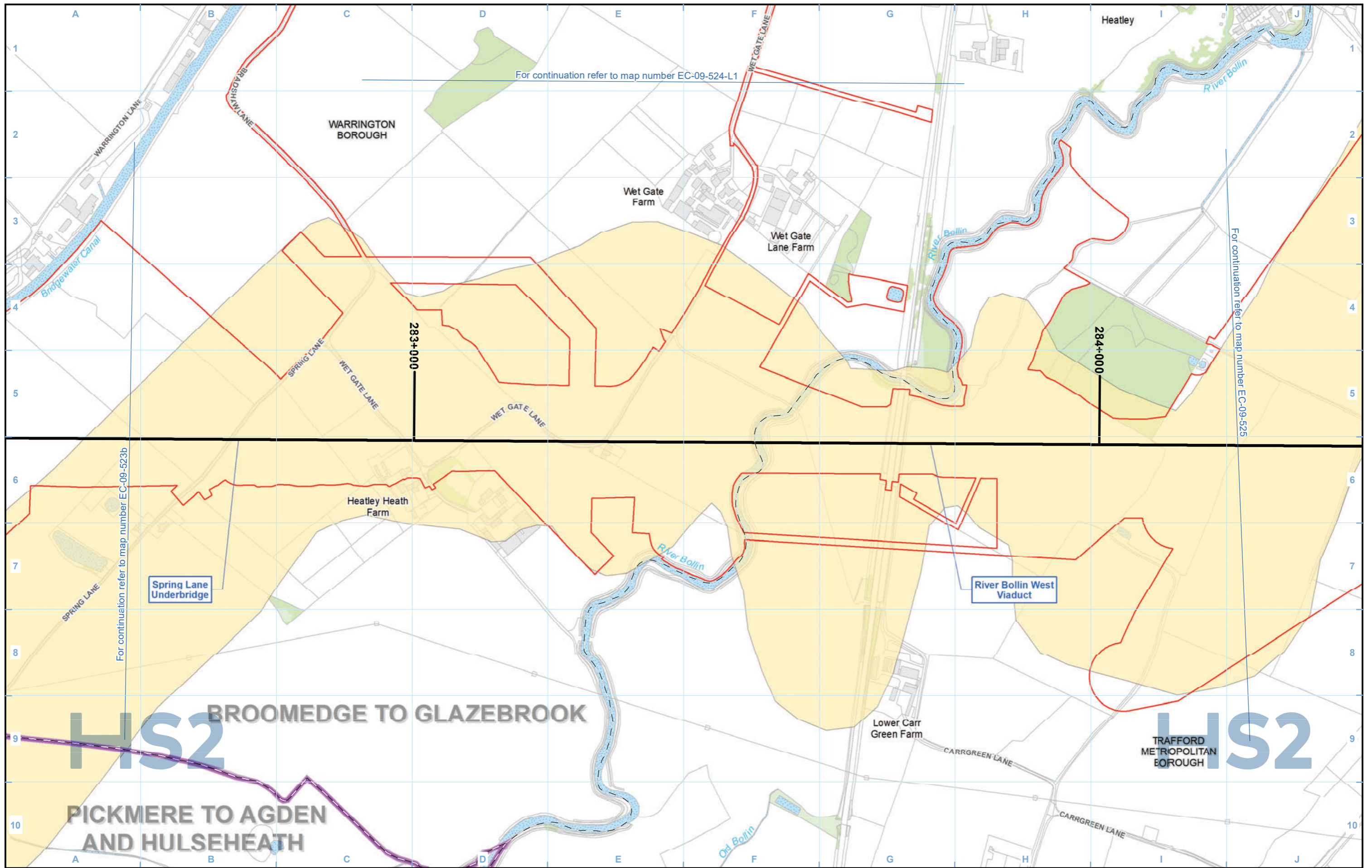
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Date: 12/08/21

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For continuation refer to map number EC-09-524-L1

For continuation refer to map number EC-09-525

For continuation refer to map number EC-09-523b

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-524

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA04: Broomedge to Glazebrook

HS2

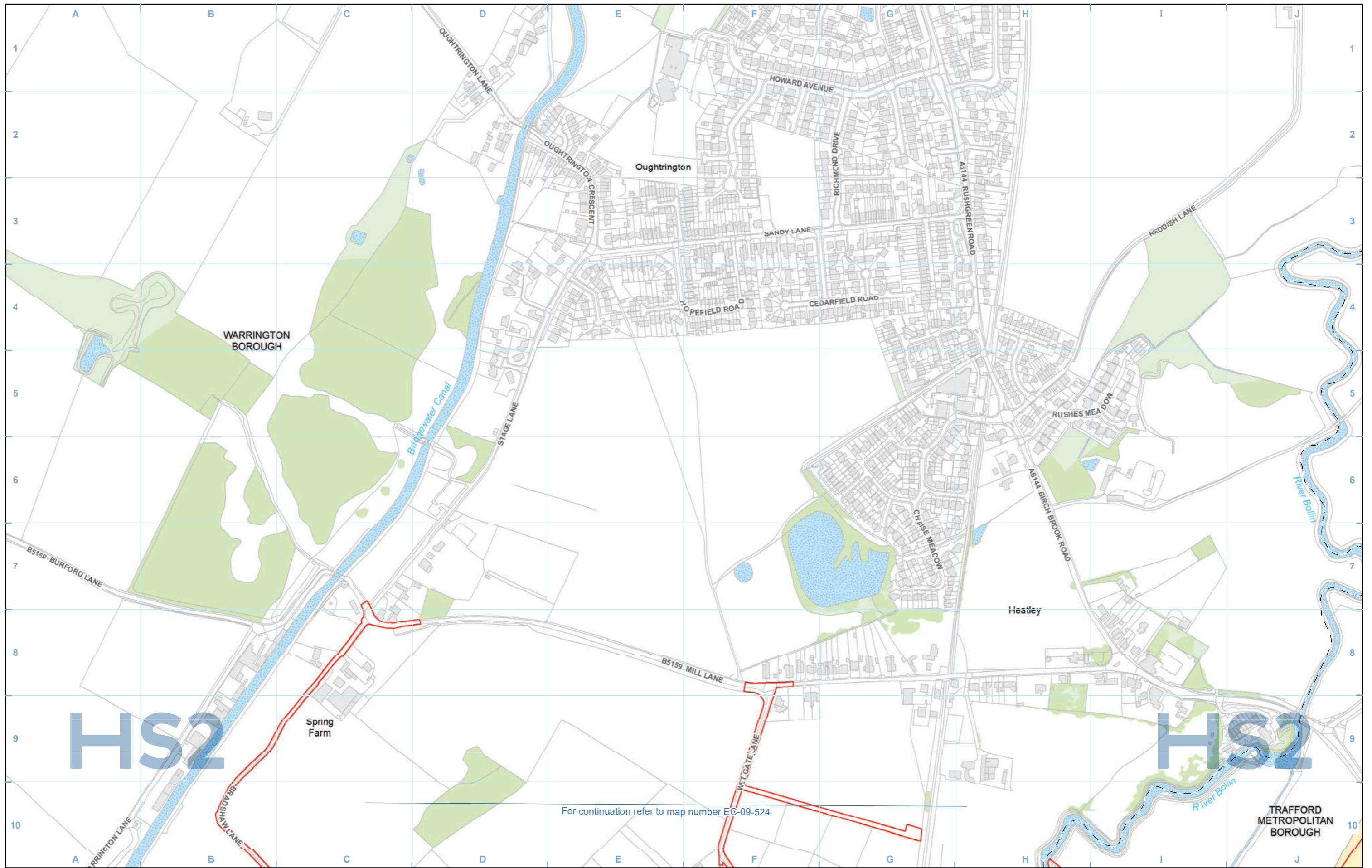
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For continuation refer to map number EC-09-524

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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-524-L1

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA04: Broomedged to Glazebrook

Hs2

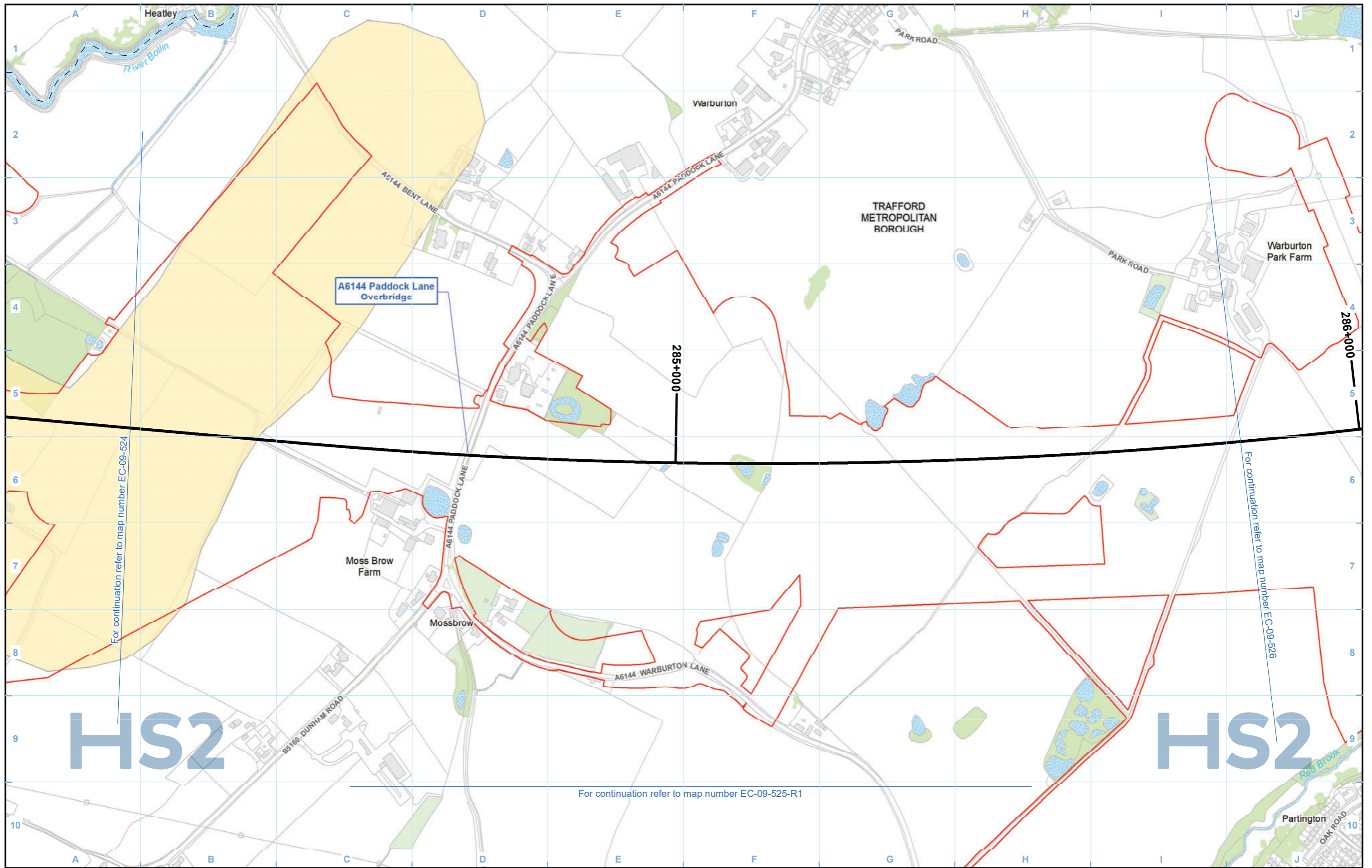
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Legend

- 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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-525

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA04: Broomedje to Glazebrook

HS2

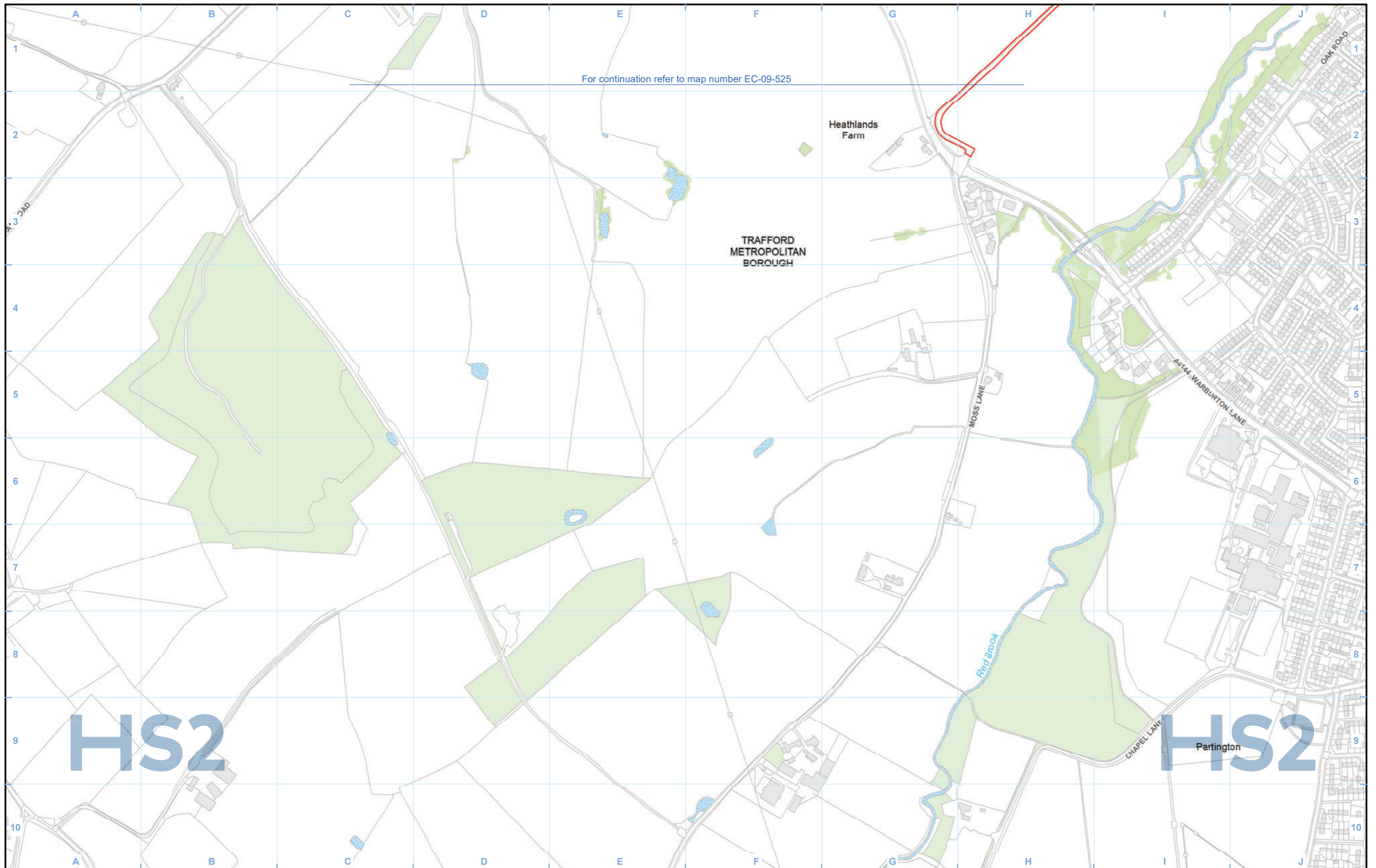
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Date: 12/08/21



For continuation refer to map number EC-09-525

HS2

Partington 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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-525-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA04:
Broomedged to Glazebrook

HS2

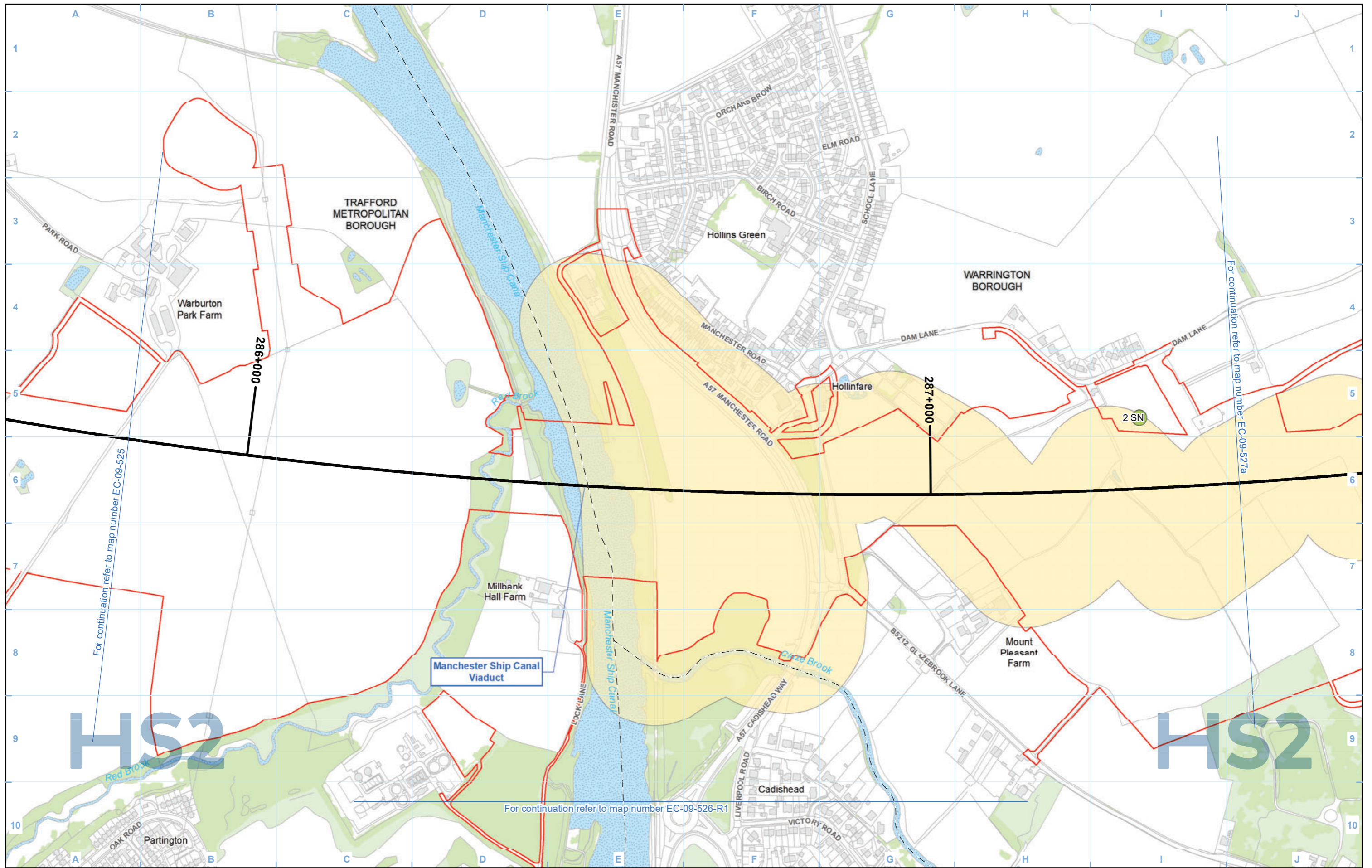
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Date: 12/08/21



For continuation refer to map number EC-09-525

For continuation refer to map number EC-09-527a

For continuation refer to map number EC-09-526-R1

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-526**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA04:
Broomedged to Glazebrook

HS2

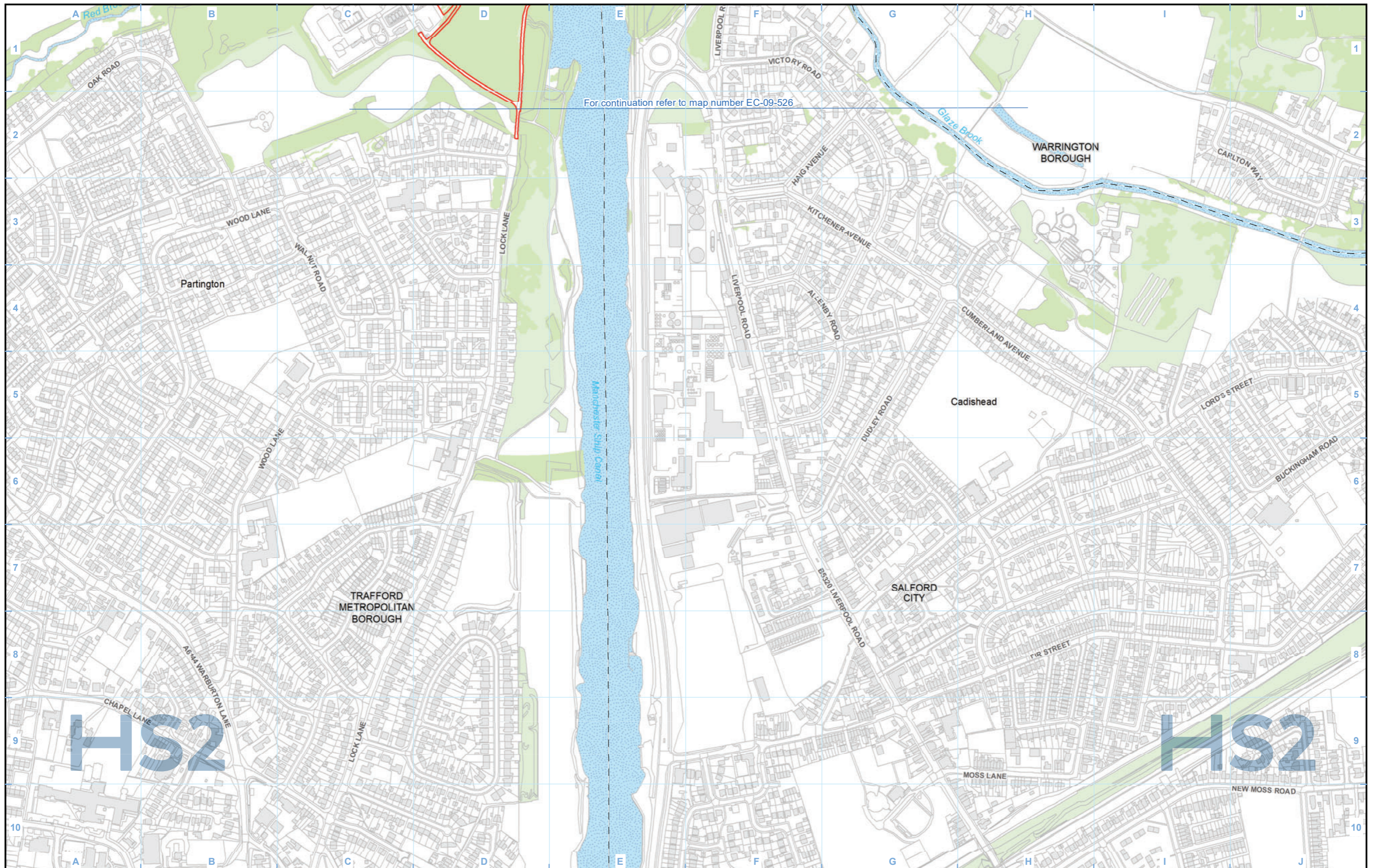
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Date: 12/08/21



For continuation refer to map number EC-09-526

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-526-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA04:
Broomedged to Glazebrook

HS2

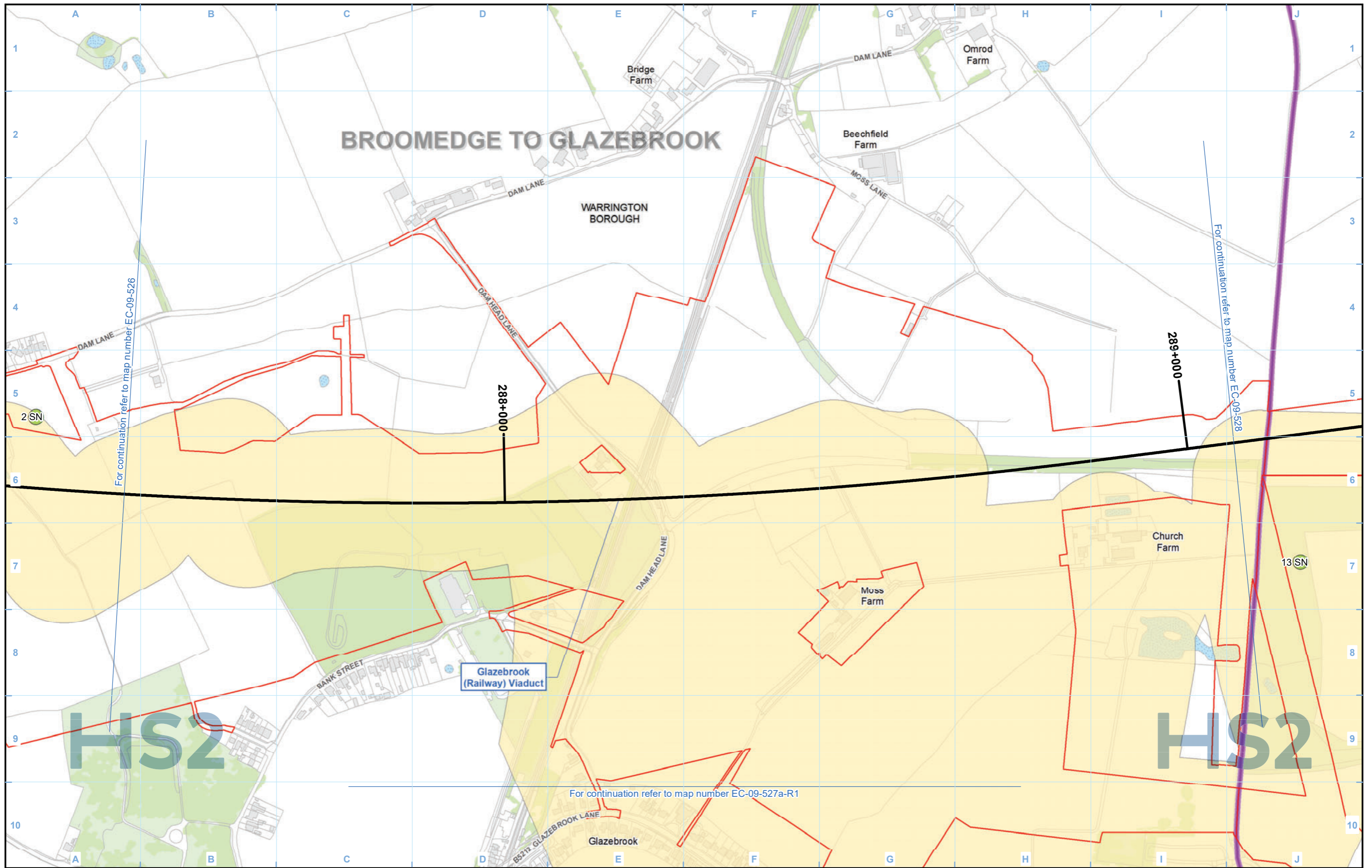
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003303-P01

Date: 12/08/21



Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-527a

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA04: Broomedge to Glazebrook

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Date: 12/08/21

Scale at A3: 1:5,000

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BROOMEDGE TO GLAZEBROOK

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number EC-09-527a-R1

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area MA04:
Broomedge to Glazebrook

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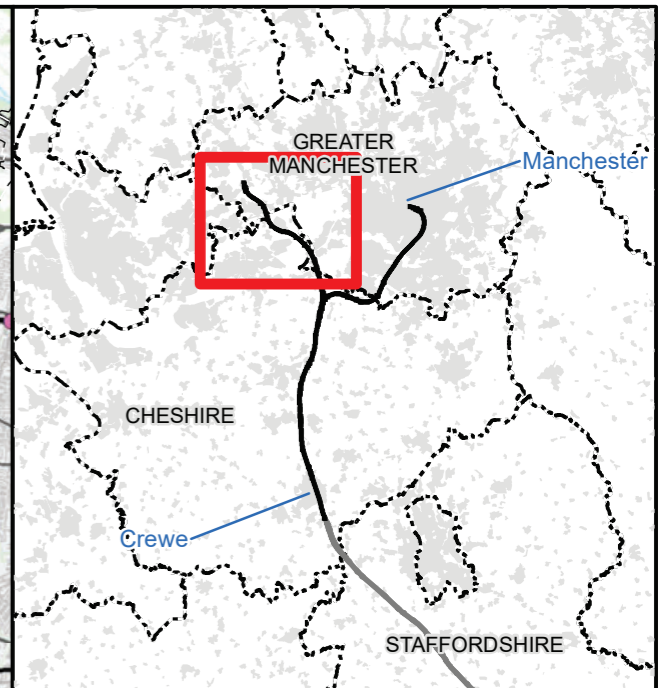
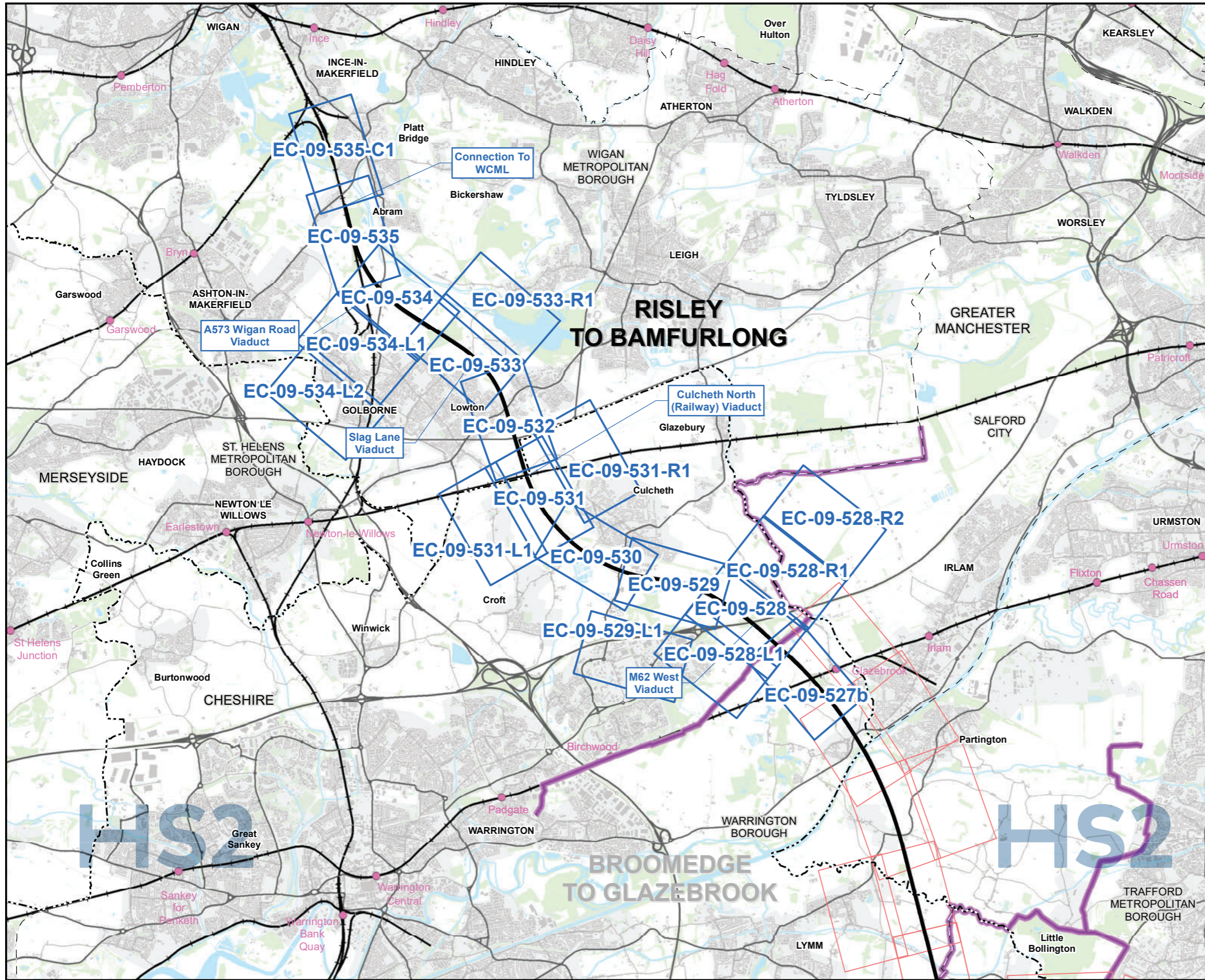
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003304-P01 Date: 12/08/21

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Map Series Information:

This map series shows records of protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.

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

Map Number	EC-09-INDEX-MA05
Map Name	Index Map of: Wintering and Passage Birds – Protected and Notable Species
Community Area MA05: Risley to Bamfurlong	

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

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Scale at A3: 1:75,000

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Doc Number: 2DE01-MWJ-EV-MAP-M000-001297-P01 Date: 12/08/21

BTO SPECIES CODES

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AE	Arctic Tern	EG	Egyptian Goose	KF	Kingfisher	RA	Razorbill	SD	Stock Dove
AV	Avocet	E.	Eider	KI	Kittiwake	RG	Red Grouse	SC	Stonechat
BO	Barn Owl	FP	Feral Pigeon	KN	Knot	KT	Red Kite	TN	Stone-curlew
BY	Barnacle Goose	ZL	Feral/hybrid goose	LM	Lady Amherst's Pheasant	ED	Red-backed Shrike	TM	Storm Petrel
BA	Bar-tailed Godwit	ZF	Feral/hybrid mallard type	LA	Lapland Bunting	RM	Red-breasted Merganser	SL	Swallow
BR	Bearded Tit	FF	Fieldfare	L.	Lapwing	RQ	Red-crested Pochard	SI	Swift
BS	Berwick's Swan	FC	Firecrest	TL	Leach's Petrel	FV	Red-footed Falcon	TO	Tawny Owl
BI	Bittern	F.	Fulmar	LB	Lesser Black-backed Gull	RL	Red-legged Partridge	T.	Teal
BK	Black Grouse	GA	Gadwall	LS	Lesser Spotted Woodpecker	NK	Red-necked Phalarope	TK	Temminck's Stint
TY	Black Guillemot	GX	Gannet	LW	Lesser Whitethroat	LR	Redpoll (Lesser)	TP	Tree Pipit
BX	Black Redstart	GW	Garden Warbler	LI	Linnet	RK	Redshank	TS	Tree Sparrow
BJ	Black Tern	GY	Garganey	ET	Little Egret	RT	Redstart	TC	Treecreeper
B.	Blackbird	GC	Goldcrest	LG	Little Grebe	RH	Red-throated Diver	TU	Tufted Duck
BC	Blackcap	EA	Golden Eagle	LU	Little Gull	RE	Redwing	TT	Turnstone
BH	Black-headed Gull	OL	Golden Oriole	LO	Little Owl	RB	Reed Bunting	TD	Turtle Dove
BN	Black-necked Grebe	GF	Golden Pheasant	LP	Little Ringed Plover	RW	Reed Warbler	TW	Twite
BW	Black-tailed Godwit	GP	Golden Plover	AF	Little Tern	RZ	Ring Ouzel	WA	Water Rail
BV	Black-throated Diver	GN	Goldeneye	LE	Long-eared Owl	RP	Ringed Plover	W.	Wheatear
BT	Blue Tit	GO	Goldfinch	LT	Long-tailed Tit	RI	Ring-necked Parakeet	WM	Whimbrel
BU	Bluethroat	GD	Goosander	MG	Magpie	R.	Robin	WC	Whinchat
BL	Brambling	GI	Goshawk	MA	Mallard	DV	Rock Dove (not feral)	WG	White-fronted Goose
BG	Brent Goose	GH	Grasshopper Warbler	MN	Mandarin Duck	RC	Rock Pipit	WH	Whitethroat
BF	Bullfinch	GB	Great Black-backed Gull	MX	Manx Shearwater	RO	Rook	WS	Whooper Swan
BZ	Buzzard	GG	Great Crested Grebe	MR	Marsh Harrier	RS	Roseate Tern	WN	Wigeon
CG	Canada Goose	ND	Great Northern Diver	MT	Marsh Tit	RY	Ruddy Duck	WT	Willow Tit
CP	Capercaillie	NX	Great Skua	MW	Marsh Warbler	RU	Ruff	WW	Willow Warbler
C.	Carrion Crow	GS	Great Spotted Woodpecker	MP	Meadow Pipit	SM	Sand Martin	OD	Wood Sandpiper
CW	Cetti's Warbler	GT	Great Tit	MU	Mediterranean Gull	SS	Sanderling	WO	Wood Warbler
CH	Chaffinch	GE	Green Sandpiper	ML	Merlin	TE	Sandwich Tern	WK	Woodcock
CC	Chiffchaff	G.	Green Woodpecker	M.	Mistle Thrush	VI	Savi's Warbler	WL	Woodlark
CF	Chough	GR	Greenfinch	MO	Montagu's Harrier	SQ	Scarlet Rosefinch	WP	Woodpigeon
CL	Cirl Bunting	GK	Greenshank	MH	Moorhen	SP	Scaup	WR	Wren
CT	Coal Tit	H.	Grey Heron	MS	Mute Swan	CY	Scottish Crossbill	WY	Wryneck
CD	Collared Dove	P.	Grey Partridge	N.	Nightingale	SW	Sedge Warbler	YW	Yellow Wagtail
CM	Common Gull	GV	Grey Plover	NJ	Nightjar	NS	Serin	Y.	Yellowhammer
CS	Common Sandpiper	GL	Grey Wagtail	NH	Nuthatch	SA	Shag		
CX	Common Scoter	GJ	Greylag Goose	OP	Osprey	SU	Shelduck		
CN	Common Tern	GU	Guillemot	OC	Oystercatcher	SX	Shorelark		
CO	Coot	FW	Guineafowl (Helmeted)	PX	Peafowl/Peacock	SE	Short-eared Owl		
CA	Cormorant	HF	Hawfinch	PE	Peregrine	SV	Shoveler		
CB	Corn Bunting	HH	Hen Harrier	PH	Pheasant	SK	Siskin		
CE	Corncrake	HG	Herring Gull	PF	Pied Flycatcher	S.	Skylark		
CI	Crested Tit	HY	Hobby	PW	Pied Wagtail	SZ	Slavonian Grebe		
CR	Crossbill (Common)	HZ	Honey Buzzard	PG	Pink-footed Goose	SN	Snipe		
CK	Cuckoo	HC	Hooded Crow	PT	Pintail	SB	Snow Bunting		
CU	Curlew	HP	Hoopoe	PO	Pochard	ST	Song Thrush		
DW	Dartford Warbler	HM	House Martin	PM	Ptarmigan	SH	Sparrowhawk		
DI	Dipper	HS	House Sparrow	PU	Puffin	AK	Spotted Crake		
DO	Dotterel	JD	Jackdaw	PS	Purple Sandpiper	SF	Spotted Flycatcher		
DN	Dunlin	J.	Jay	Q.	Quail	DR	Spotted Redshank		

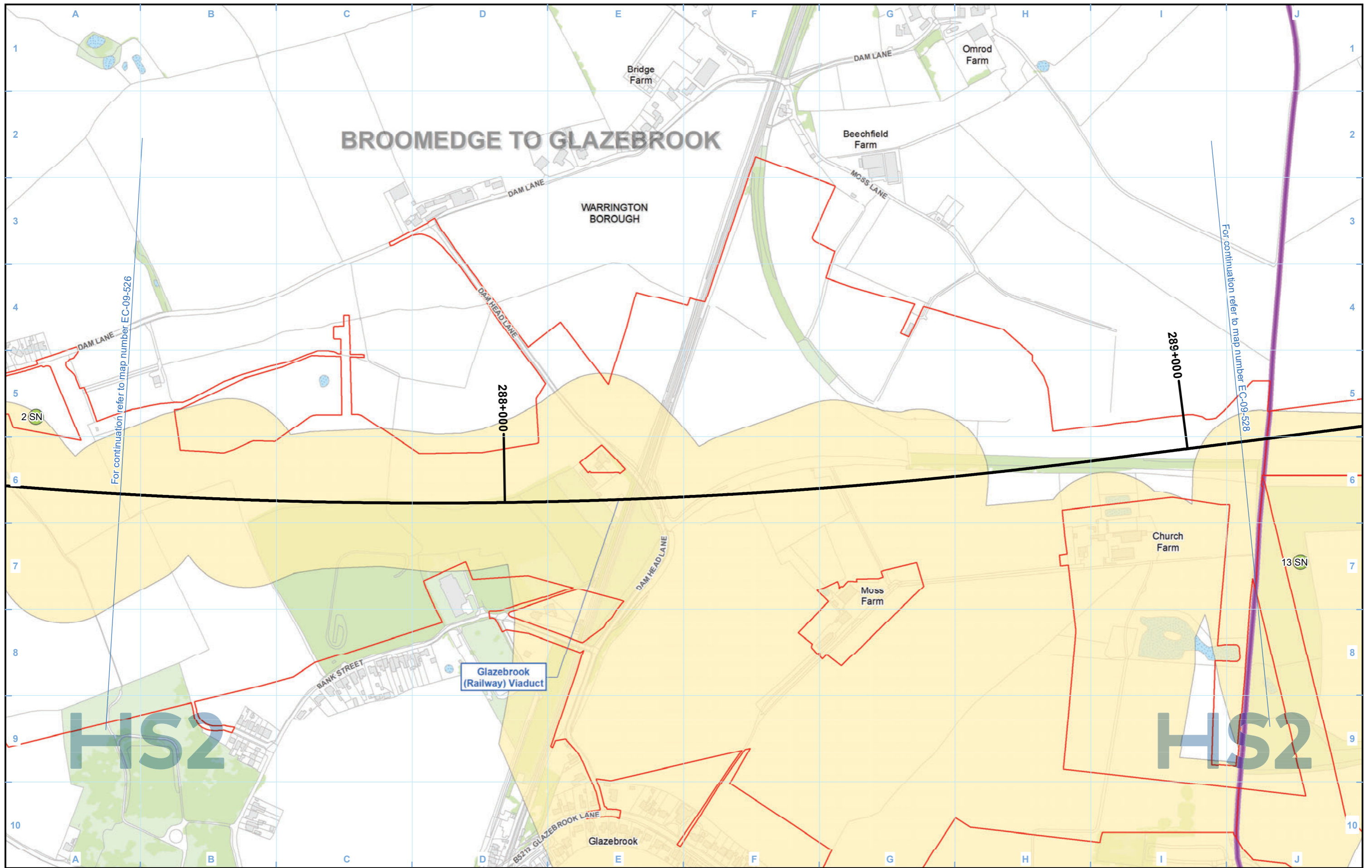
Map Number	EC-09 Legend
Map Name	EC-09 BTO Bird Species Legend

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Doc Number: 2DE01-MWJ-EV-MAP-M000-004052-P01 **Date:** 12/08/21



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-527b

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

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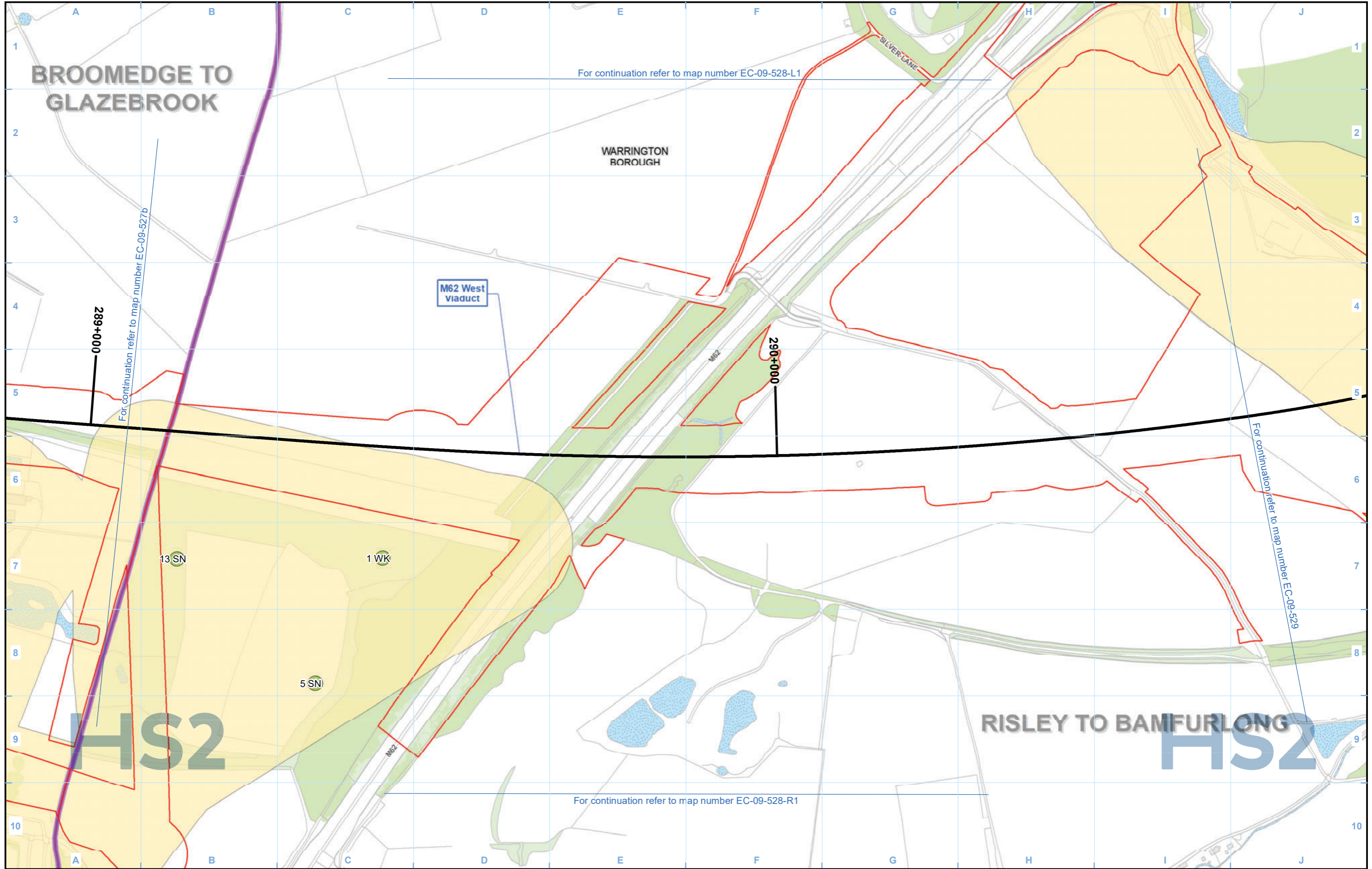
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001261-P01 Date: 12/08/21



Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-528

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

HS2

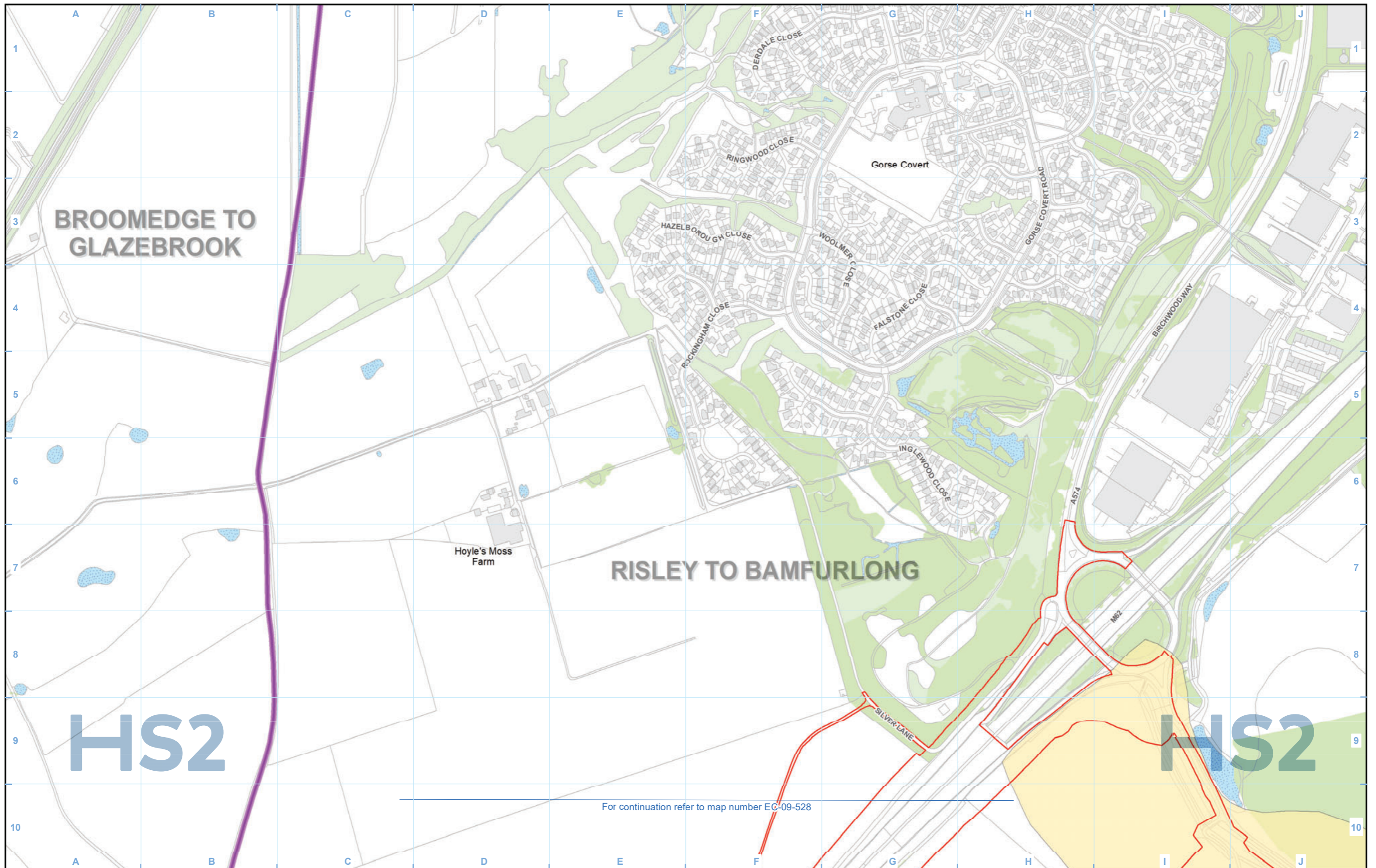
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Scale at A3: 1:5,000

Date: 12/08/21



For continuation refer to map number EC-09-528

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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-528-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

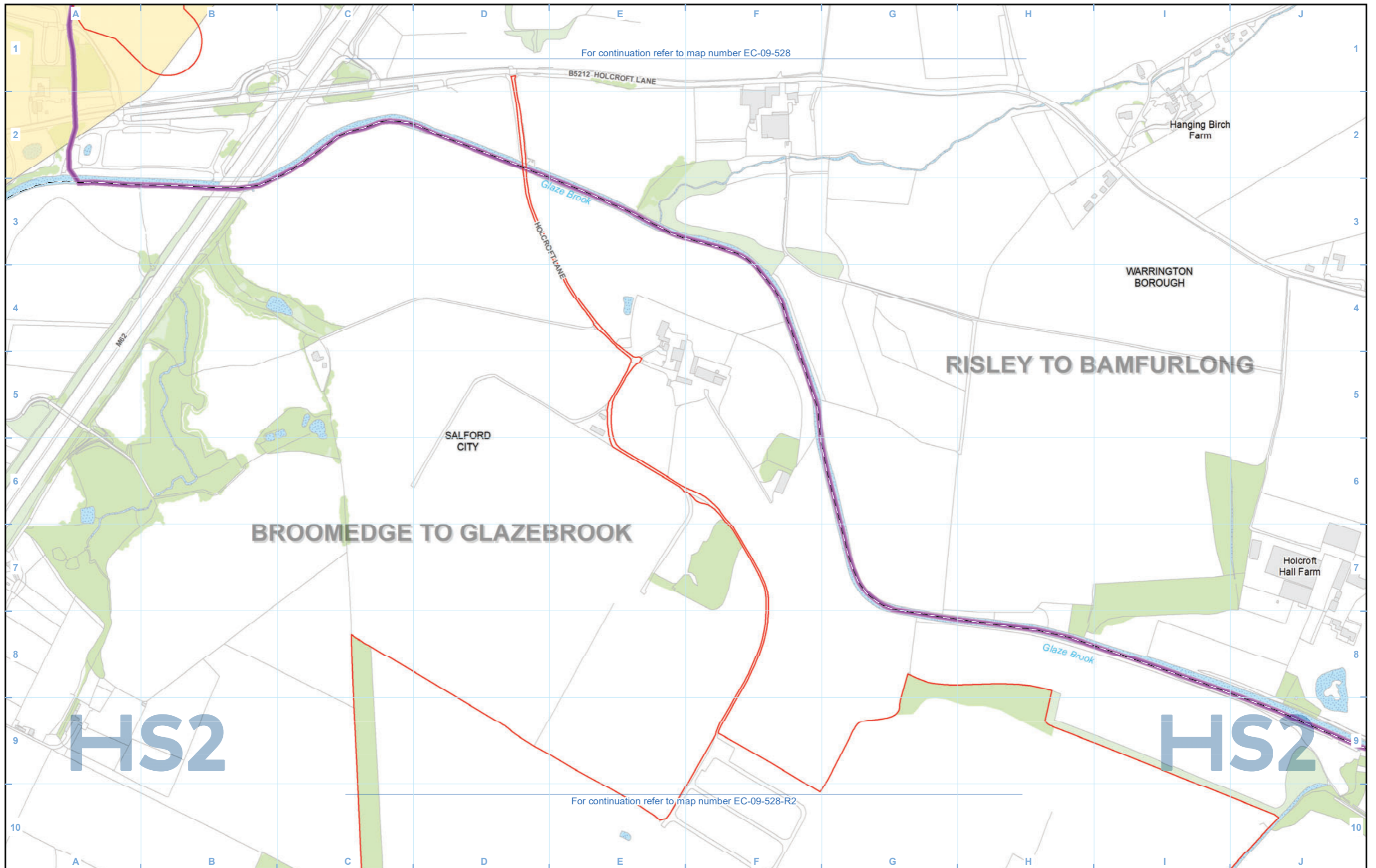
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003305-P01 **Date: 12/08/21**



Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-528-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-528-R2**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

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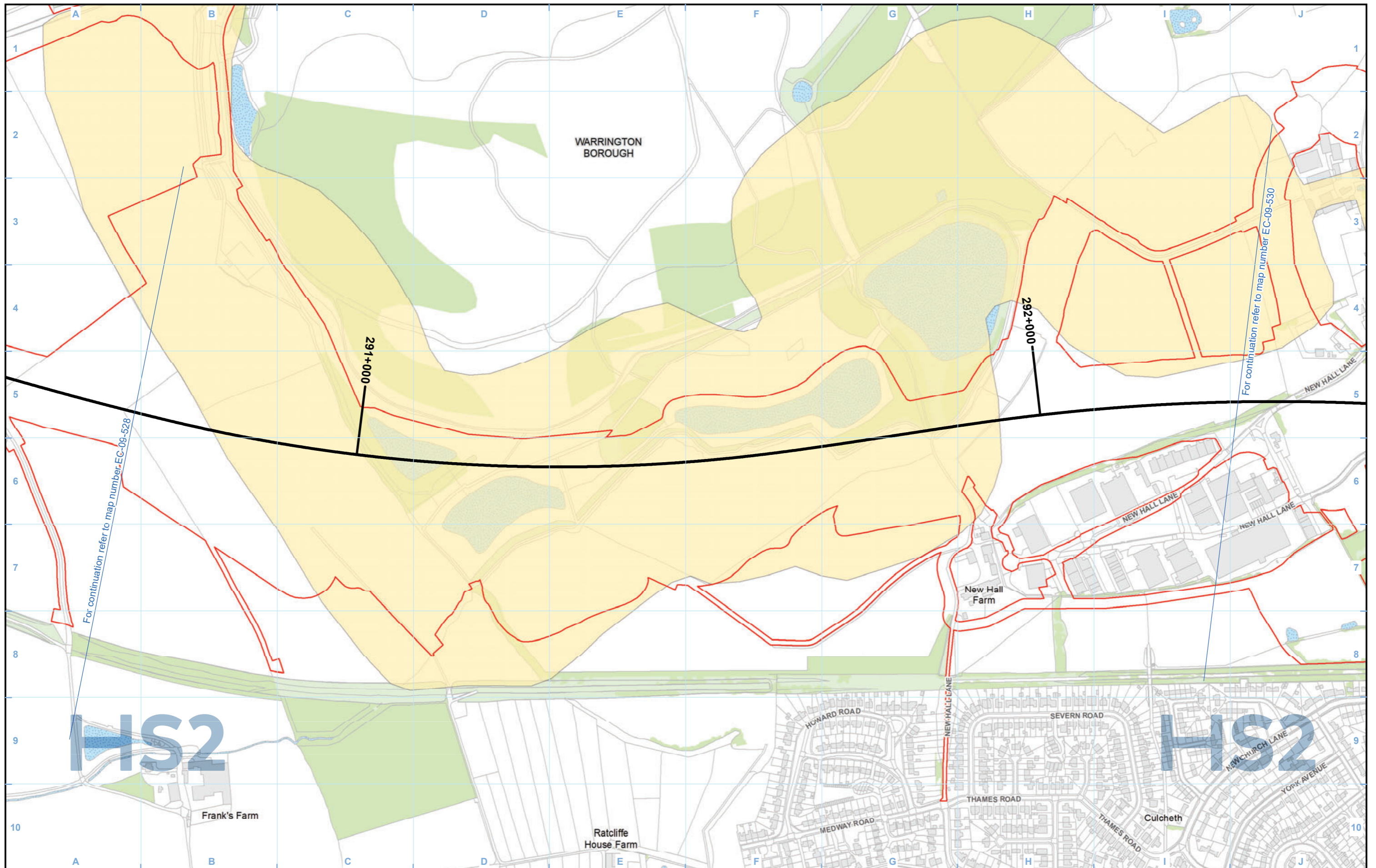
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-529**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

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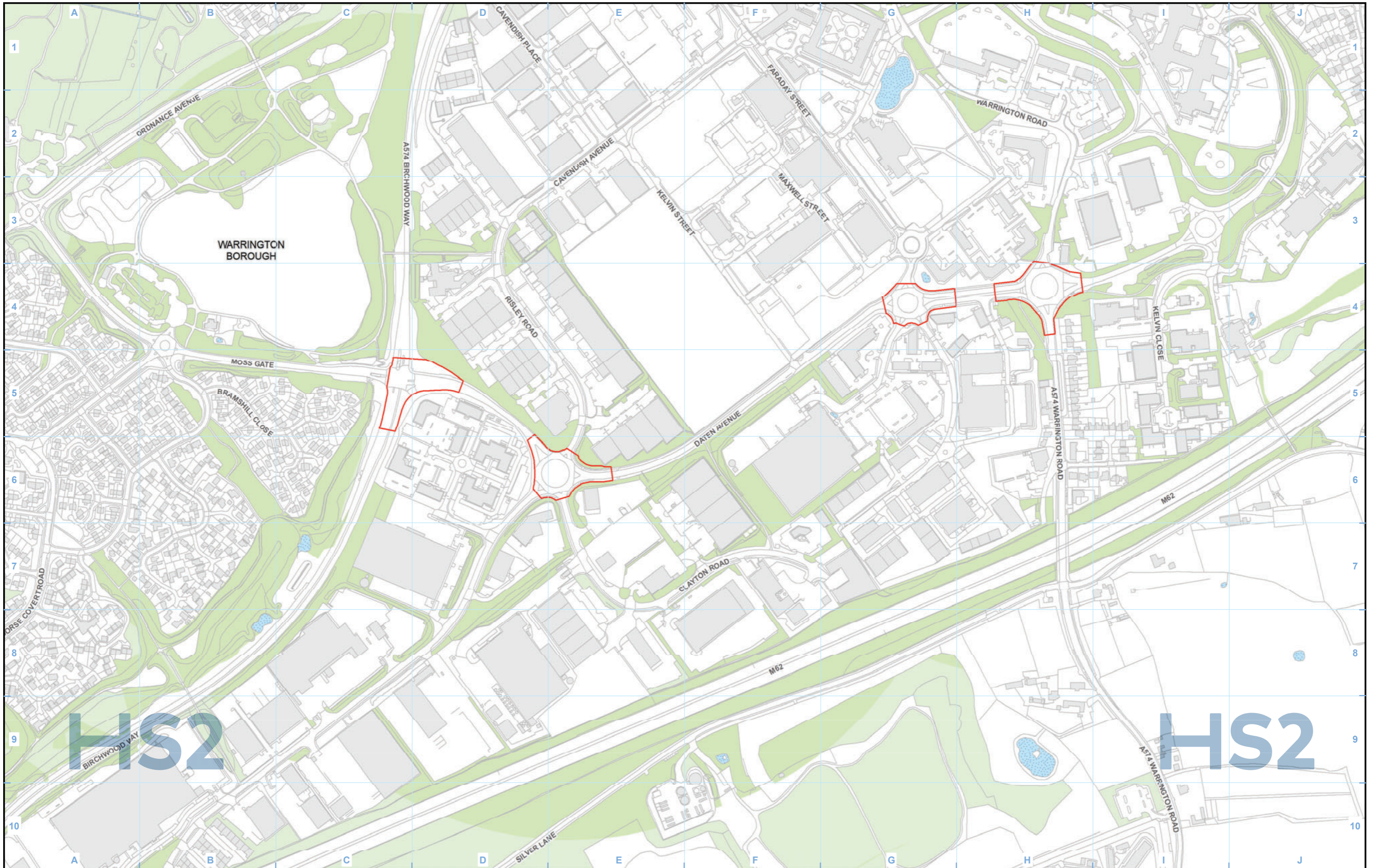
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-529-L1

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

HS2

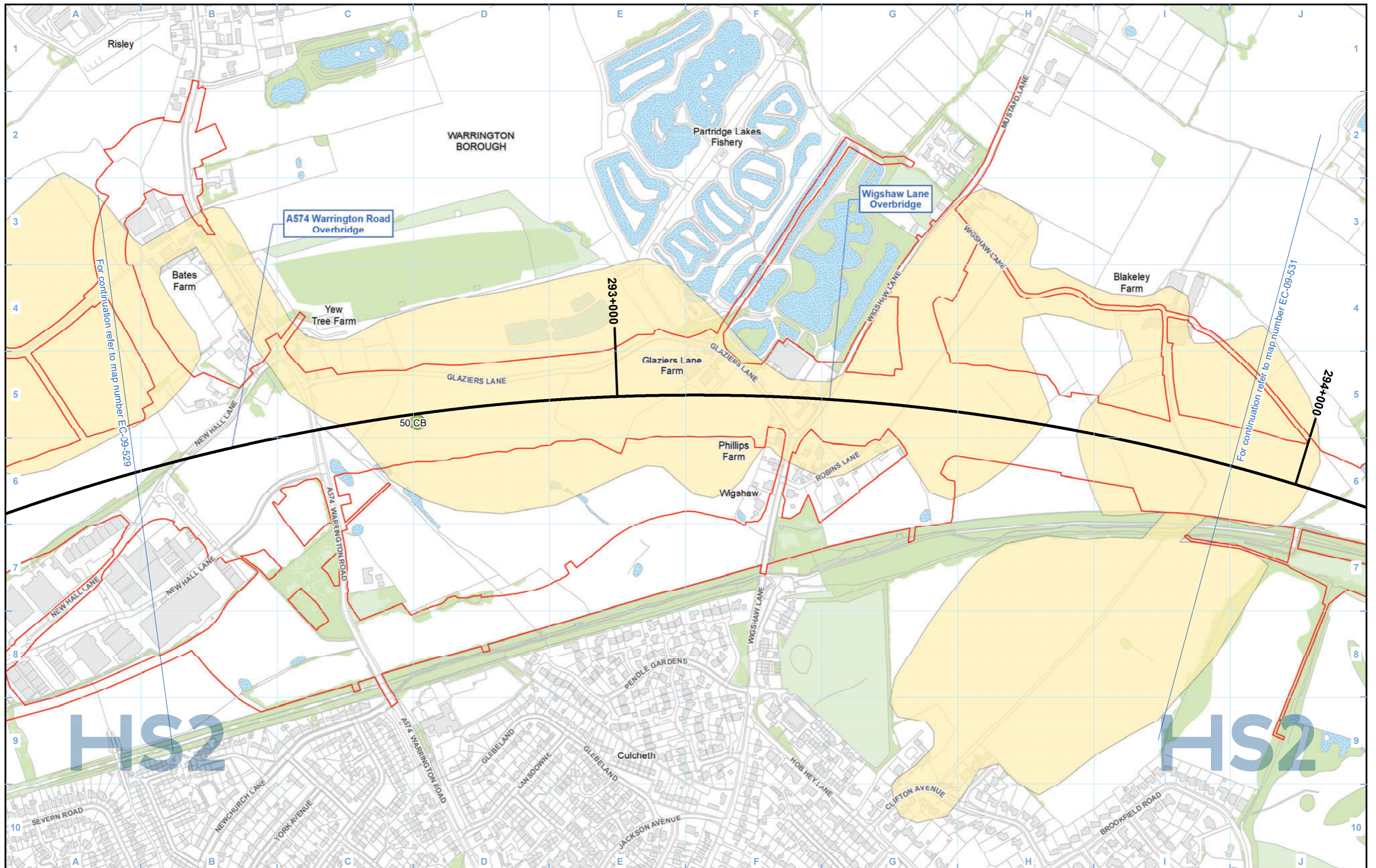
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number EC-09-530

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area MA05:
 Risley to Bamfurlong

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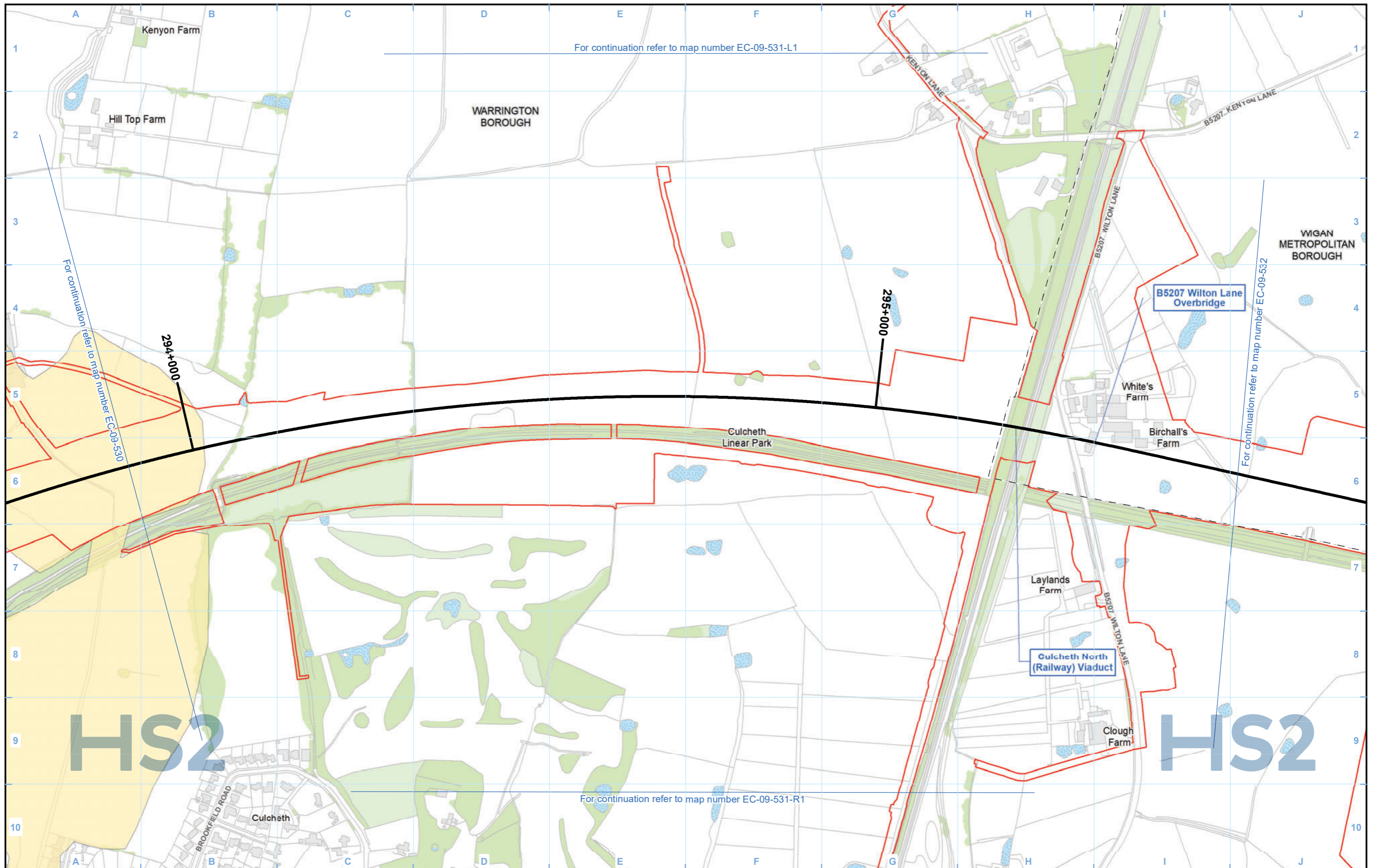
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-531

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

HS2

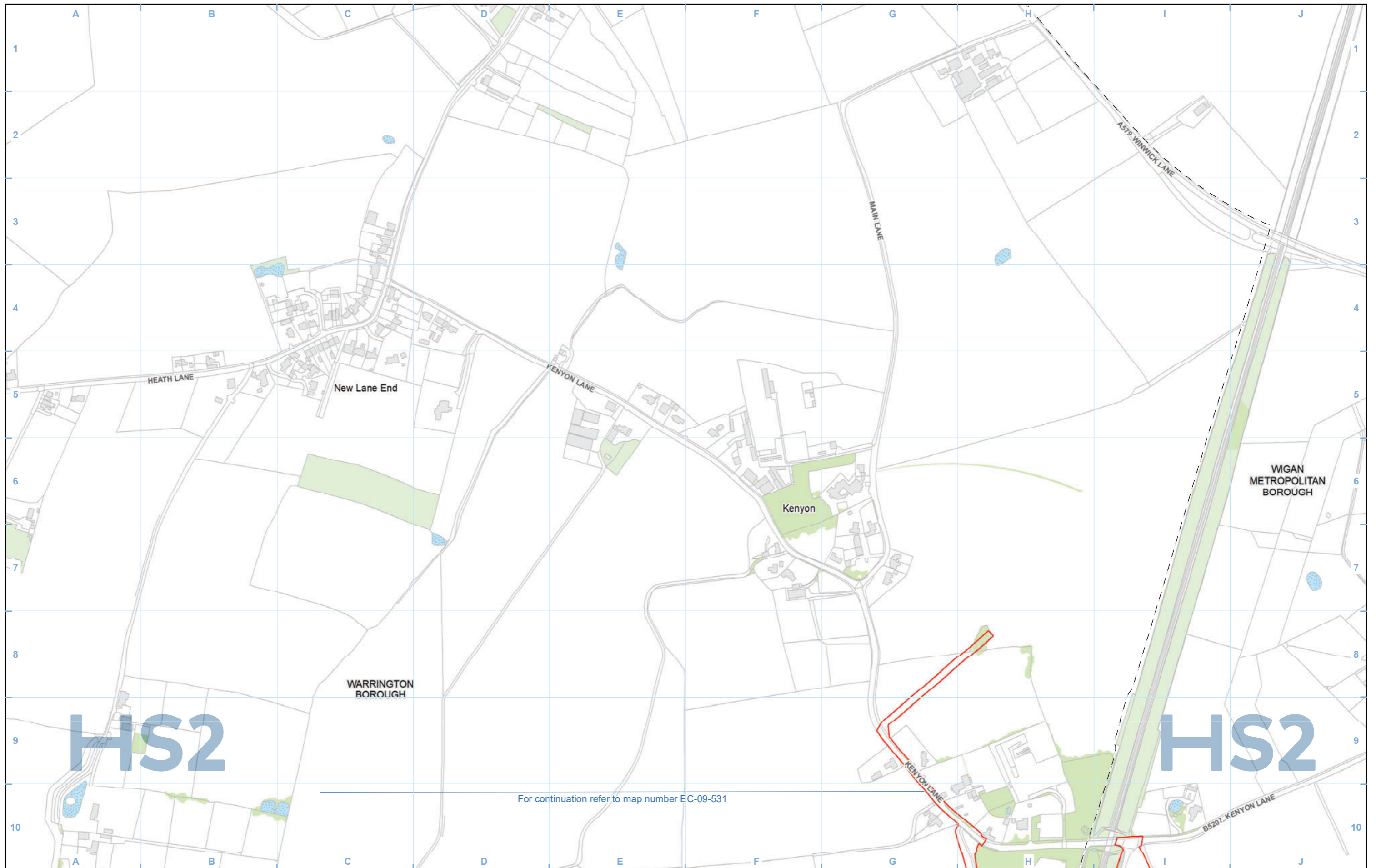
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-531-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

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For continuation refer to map number EC-09-531

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-531-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

HS2

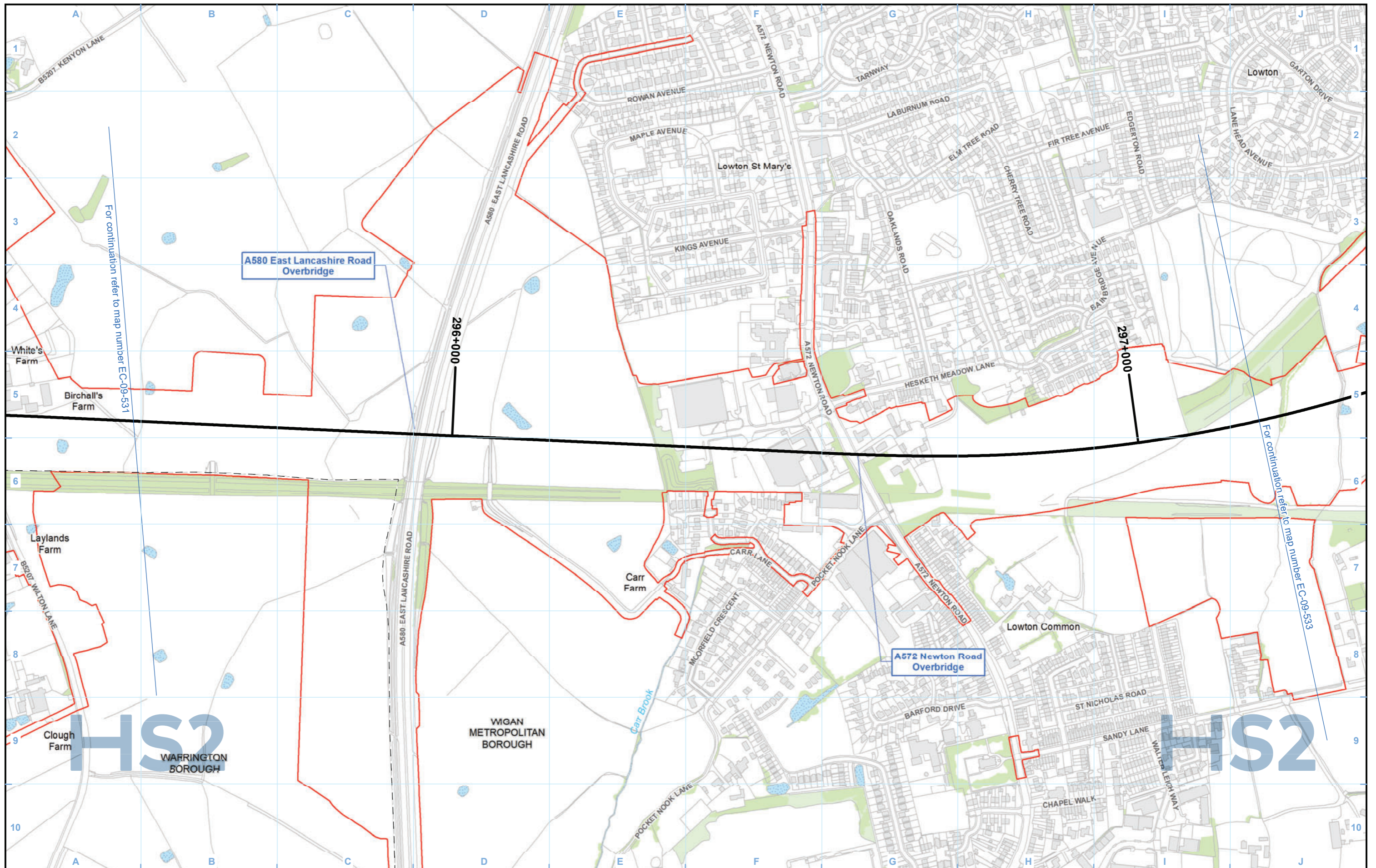
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Legend

- 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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-532

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

HS2

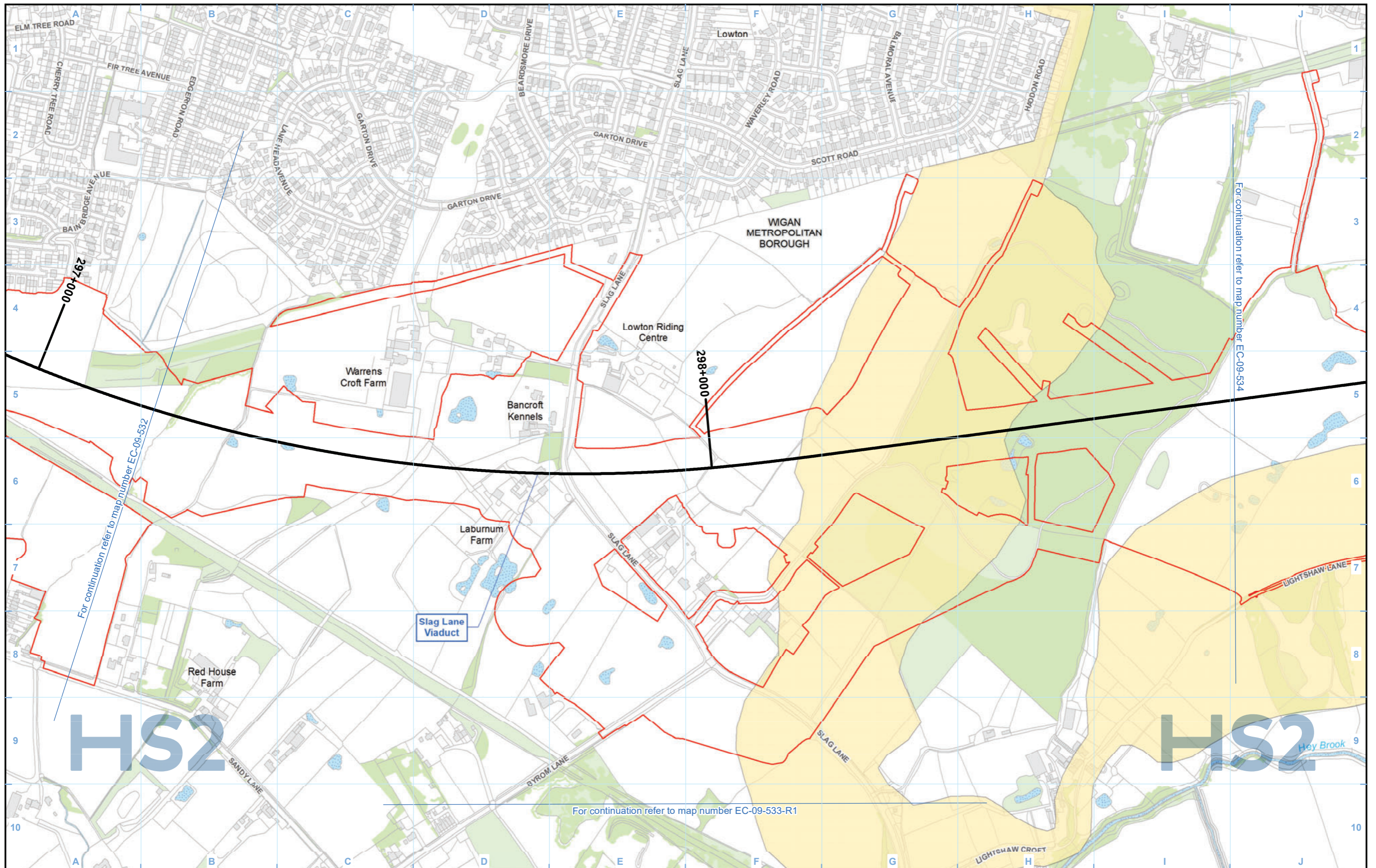
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Date: 12/08/21



HS2

HS2

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number	EC-09-533
Map Name	Wintering and Passage Birds – Protected and Notable Species
	Community Area MA05: Risley to Bamfurlong

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Date: 12/08/21



For continuation refer to map number EC-09-533

Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-533-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

HS2

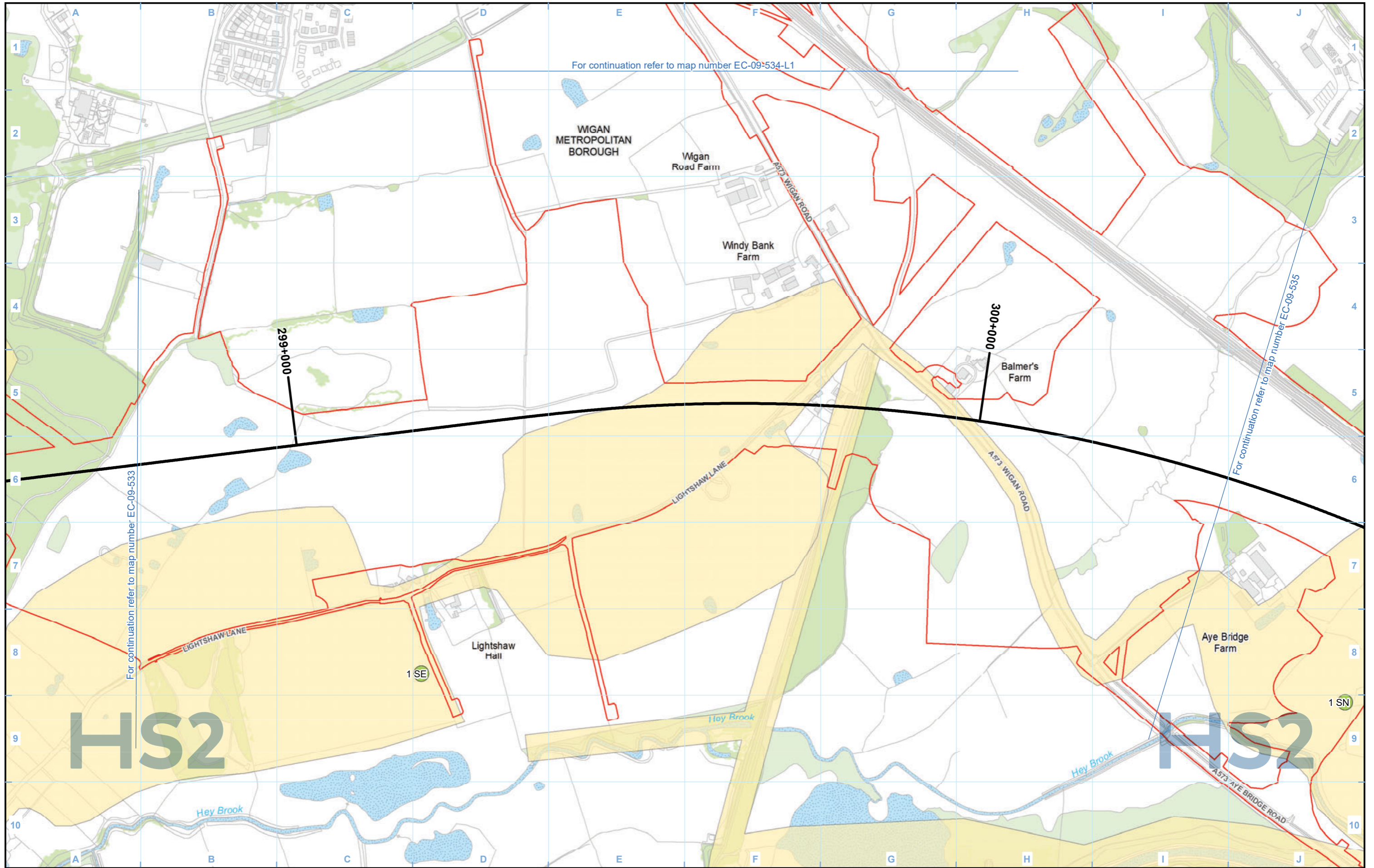
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Date: 12/08/21



For continuation refer to map number EC-09-534-L1

WIGAN METROPOLITAN BOROUGH

Wigan Road Farm

Windy Bank Farm

Balmer's Farm

Lightshaw Hall

Aye Bridge Farm

HS2

HS2

299+000

300+000

For continuation refer to map number EC-09-533

For continuation refer to map number EC-09-535

Legend <ul style="list-style-type: none"> 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) Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Wintering & passage birds - survey extent 		<p>Map Number: EC-09-534</p> <p>Map Name: Wintering and Passage Birds – Protected and Notable Species</p> <p>Community Area MA05: Risley to Bamfurlong</p>	<p>HS2</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2021 OS 100049190</p> <p>Scale at A3: 1:5,000</p> <p>Doc Number: 2DE01-MWJ-EV-MAP-M000-001268-P01</p> <p>Date: 12/08/21</p>
<p>For full legend please refer to EC-09 - Bird Species Legend Page</p>			

For continuation refer to map number EC-09-534-L2

For continuation refer to map number EC-09-534



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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-534-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

HS2

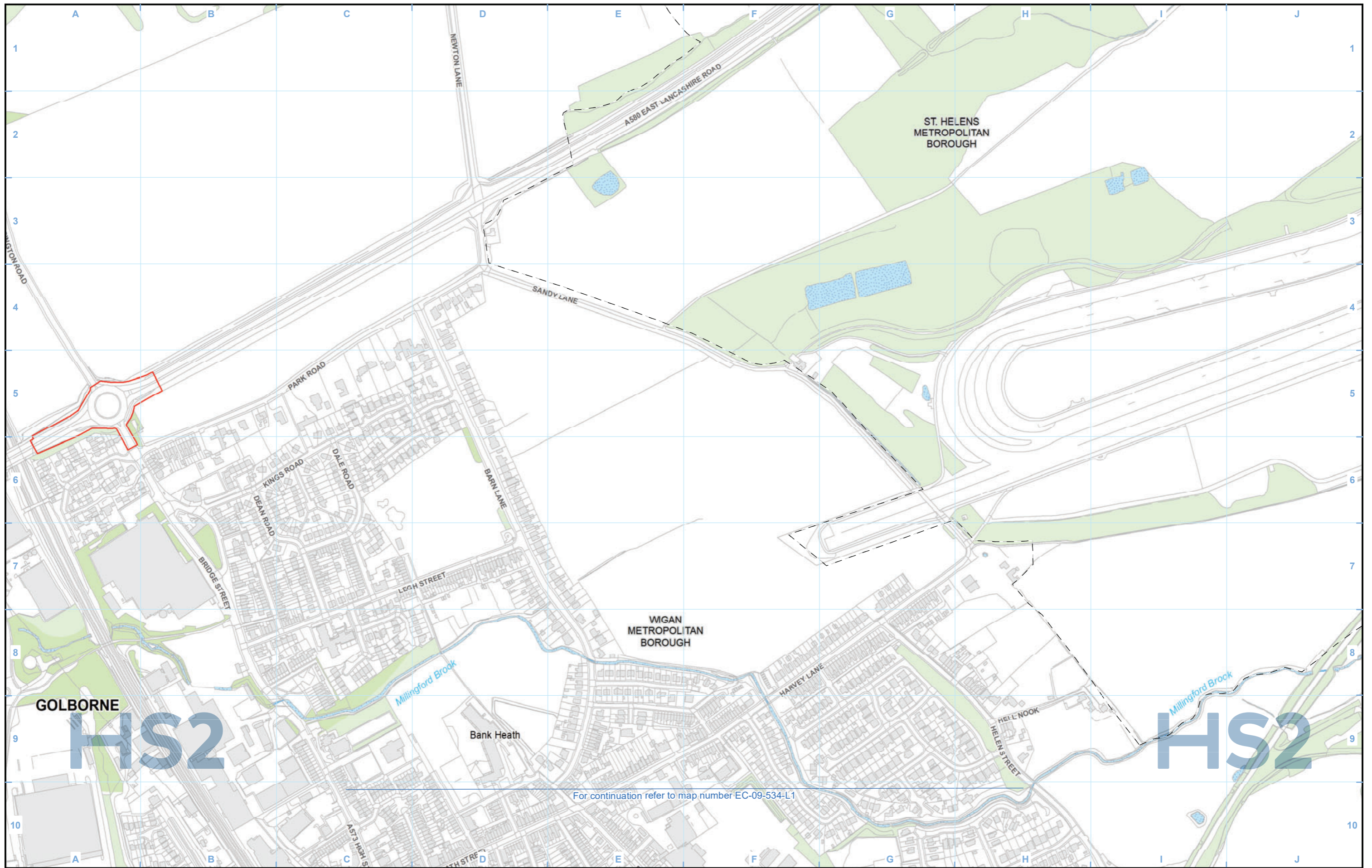
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Date: 12/08/21



For continuation refer to map number EC-09-534-L1

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-534-L2**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA05:
Risley to Bamfurlong

HS2

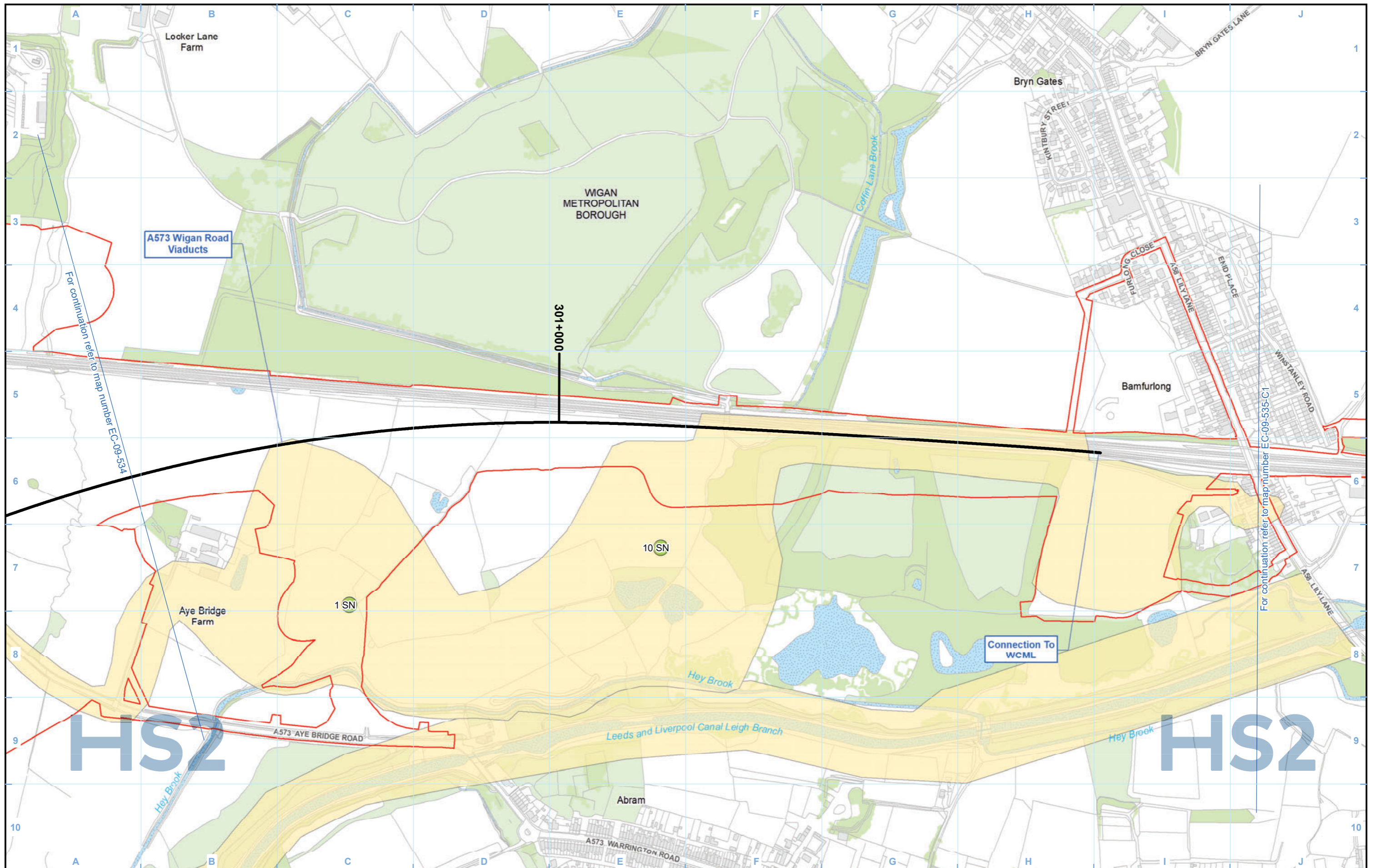
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-535

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA05: Risley to Bamfurlong

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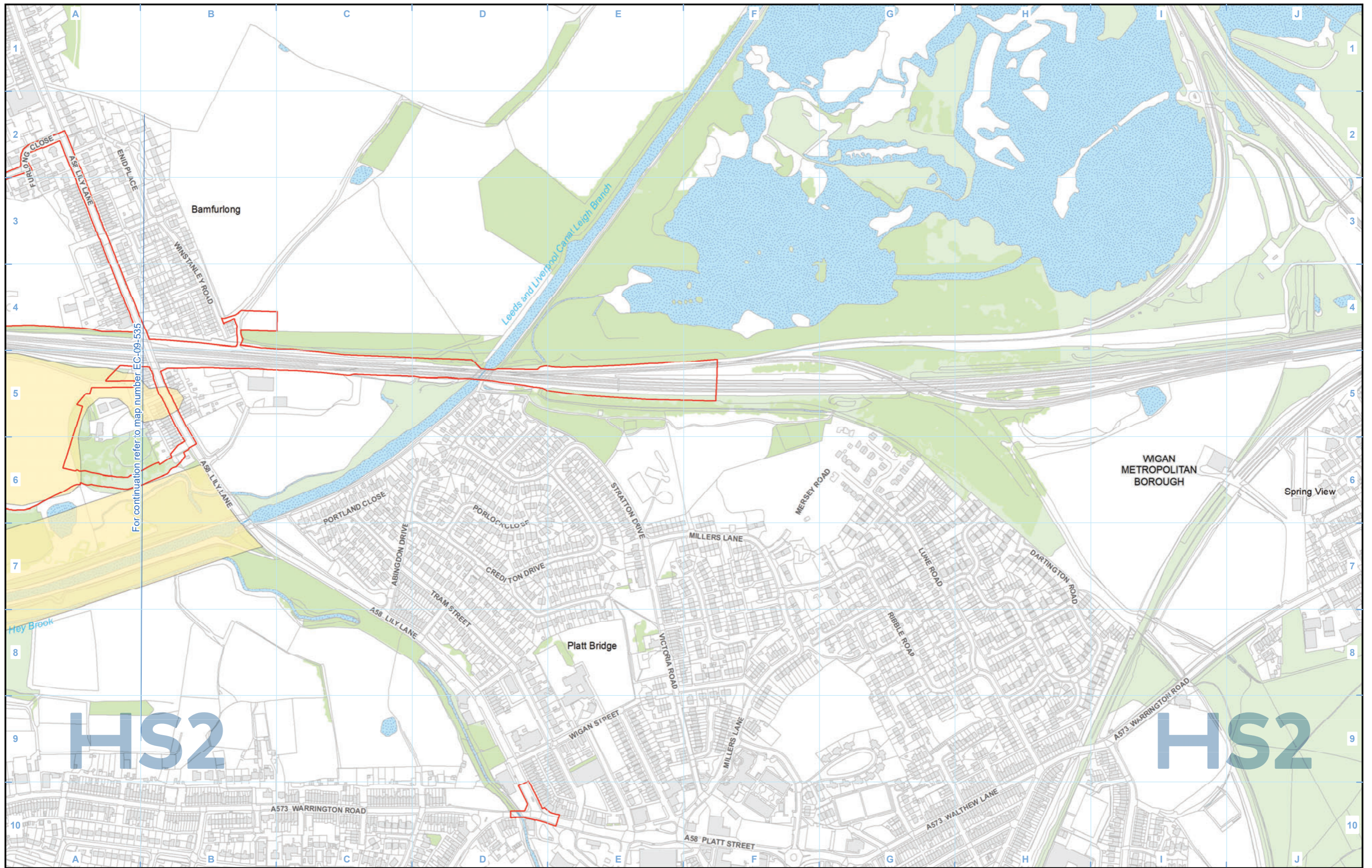
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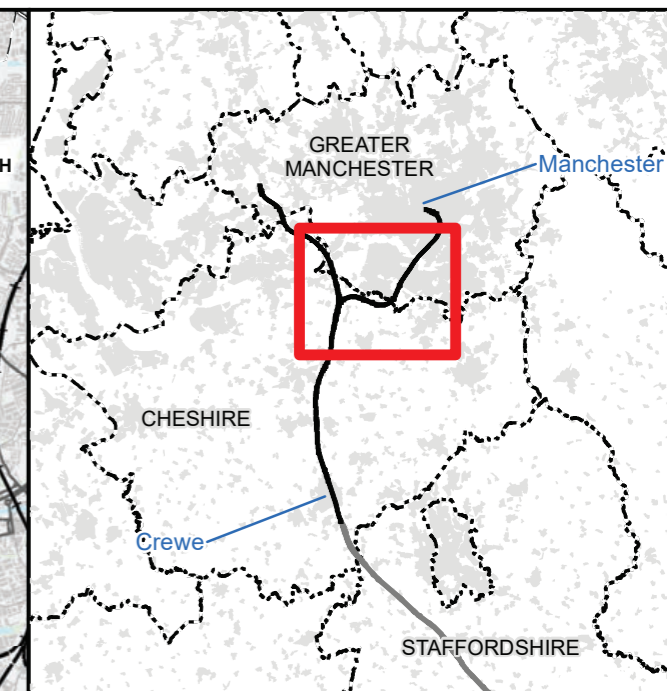
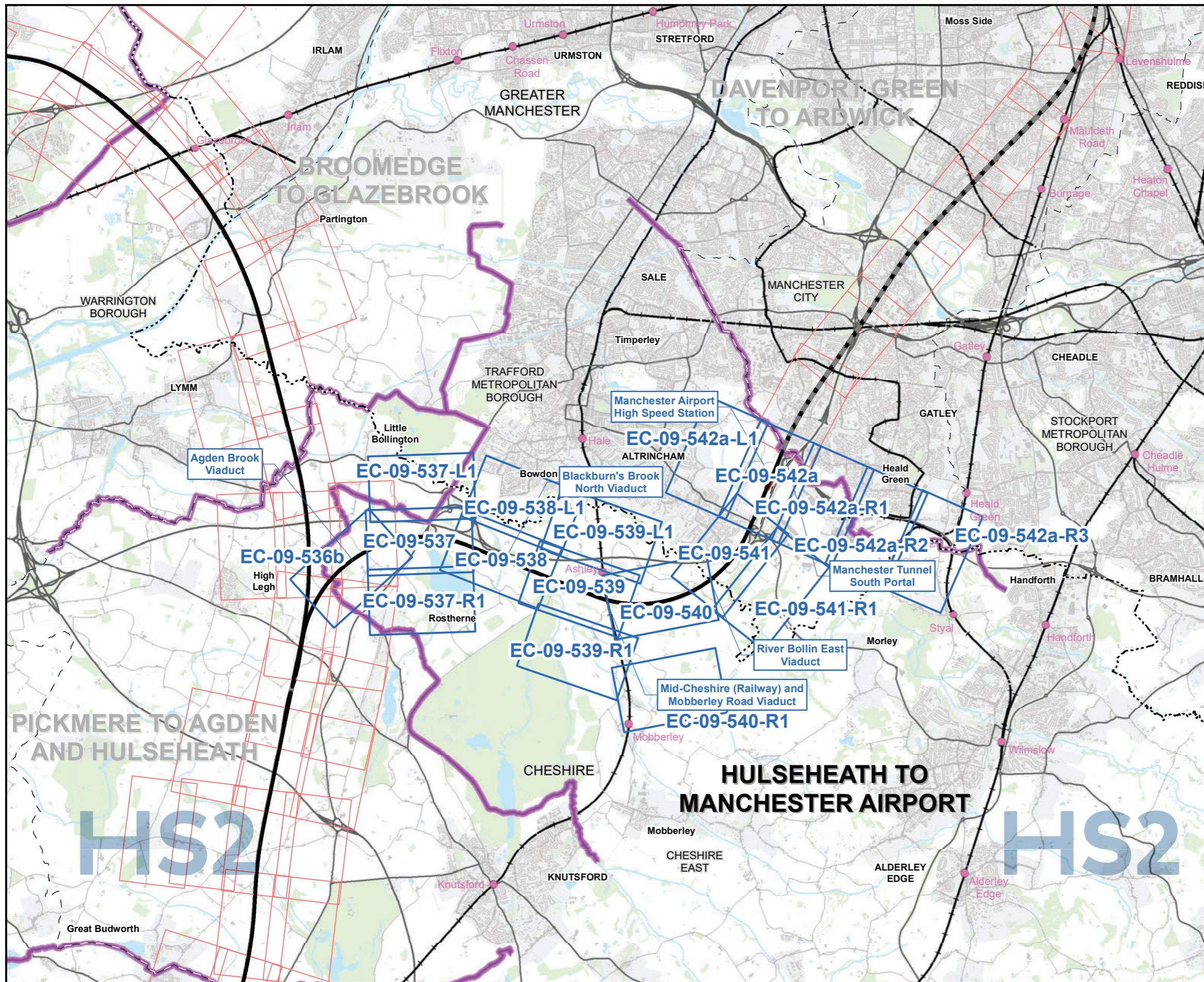
Date: 12/08/21



For continuation refer to map number EC-09-535

Legend <ul style="list-style-type: none"> 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 		<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 		<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 		<ul style="list-style-type: none"> Wintering & passage birds - survey extent 	
<p>For full legend please refer to EC-09 - Bird Species Legend Page</p>				<p>Map Number: EC-09-535-C1</p> <p>Map Name: Wintering and Passage Birds – Protected and Notable Species</p> <p>Community Area MA05: Risley to Bamfurlong</p>		<p>HS2</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2021 OS 100049190</p> <p>Scale at A3: 1:5,000</p> <p>Doc Number: 2DE01-MWJ-EV-MAP-M000-003314-P01</p> <p>Date: 12/08/21</p>	

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Map Series Information:

This map series shows records of protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.

Main Map Legend

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

Map Number: EC-09-INDEX-MA06

Map Name: Index Map of:
Wintering and Passage Birds –
Protected and Notable Species

Community Area MA06:
Hulseheath to Manchester Airport

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BTO SPECIES CODES

AC	Arctic Skua	D.	Dunnoek	K.	Kestrel	RN	Raven	SG	Starling
AE	Arctic Tern	EG	Egyptian Goose	KF	Kingfisher	RA	Razorbill	SD	Stock Dove
AV	Avocet	E.	Eider	KI	Kittiwake	RG	Red Grouse	SC	Stonechat
BO	Barn Owl	FP	Feral Pigeon	KN	Knot	KT	Red Kite	TN	Stone-curlew
BY	Barnacle Goose	ZL	Feral/hybrid goose	LM	Lady Amherst's Pheasant	ED	Red-backed Shrike	TM	Storm Petrel
BA	Bar-tailed Godwit	ZF	Feral/hybrid mallard type	LA	Lapland Bunting	RM	Red-breasted Merganser	SL	Swallow
BR	Bearded Tit	FF	Fieldfare	L.	Lapwing	RQ	Red-crested Pochard	SI	Swift
BS	Berwick's Swan	FC	Firecrest	TL	Leach's Petrel	FV	Red-footed Falcon	TO	Tawny Owl
BI	Bittern	F.	Fulmar	LB	Lesser Black-backed Gull	RL	Red-legged Partridge	T.	Teal
BK	Black Grouse	GA	Gadwall	LS	Lesser Spotted Woodpecker	NK	Red-necked Phalarope	TK	Temminck's Stint
TY	Black Guillemot	GX	Gannet	LW	Lesser Whitethroat	LR	Redpoll (Lesser)	TP	Tree Pipit
BX	Black Redstart	GW	Garden Warbler	LI	Linnet	RK	Redshank	TS	Tree Sparrow
BJ	Black Tern	GY	Garganey	ET	Little Egret	RT	Redstart	TC	Treecreeper
B.	Blackbird	GC	Goldcrest	LG	Little Grebe	RH	Red-throated Diver	TU	Tufted Duck
BC	Blackcap	EA	Golden Eagle	LU	Little Gull	RE	Redwing	TT	Turnstone
BH	Black-headed Gull	OL	Golden Oriole	LO	Little Owl	RB	Reed Bunting	TD	Turtle Dove
BN	Black-necked Grebe	GF	Golden Pheasant	LP	Little Ringed Plover	RW	Reed Warbler	TW	Twite
BW	Black-tailed Godwit	GP	Golden Plover	AF	Little Tern	RZ	Ring Ouzel	WA	Water Rail
BV	Black-throated Diver	GN	Goldeneye	LE	Long-eared Owl	RP	Ringed Plover	W.	Wheatear
BT	Blue Tit	GO	Goldfinch	LT	Long-tailed Tit	RI	Ring-necked Parakeet	WM	Whimbrel
BU	Bluethroat	GD	Goosander	MG	Magpie	R.	Robin	WC	Whinchat
BL	Brambling	GI	Goshawk	MA	Mallard	DV	Rock Dove (not feral)	WG	White-fronted Goose
BG	Brent Goose	GH	Grasshopper Warbler	MN	Mandarin Duck	RC	Rock Pipit	WH	Whitethroat
BF	Bullfinch	GB	Great Black-backed Gull	MX	Manx Shearwater	RO	Rook	WS	Whooper Swan
BZ	Buzzard	GG	Great Crested Grebe	MR	Marsh Harrier	RS	Roseate Tern	WN	Wigeon
CG	Canada Goose	ND	Great Northern Diver	MT	Marsh Tit	RY	Ruddy Duck	WT	Willow Tit
CP	Capercaillie	NX	Great Skua	MW	Marsh Warbler	RU	Ruff	WW	Willow Warbler
C.	Carrion Crow	GS	Great Spotted Woodpecker	MP	Meadow Pipit	SM	Sand Martin	OD	Wood Sandpiper
CW	Cetti's Warbler	GT	Great Tit	MU	Mediterranean Gull	SS	Sanderling	WO	Wood Warbler
CH	Chaffinch	GE	Green Sandpiper	ML	Merlin	TE	Sandwich Tern	WK	Woodcock
CC	Chiffchaff	G.	Green Woodpecker	M.	Mistle Thrush	VI	Savi's Warbler	WL	Woodlark
CF	Chough	GR	Greenfinch	MO	Montagu's Harrier	SQ	Scarlet Rosefinch	WP	Woodpigeon
CL	Cirl Bunting	GK	Greenshank	MH	Moorhen	SP	Scaup	WR	Wren
CT	Coal Tit	H.	Grey Heron	MS	Mute Swan	CY	Scottish Crossbill	WY	Wryneck
CD	Collared Dove	P.	Grey Partridge	N.	Nightingale	SW	Sedge Warbler	YW	Yellow Wagtail
CM	Common Gull	GV	Grey Plover	NJ	Nightjar	NS	Serin	Y.	Yellowhammer
CS	Common Sandpiper	GL	Grey Wagtail	NH	Nuthatch	SA	Shag		
CX	Common Scoter	GJ	Greylag Goose	OP	Osprey	SU	Shelduck		
CN	Common Tern	GU	Guillemot	OC	Oystercatcher	SX	Shorelark		
CO	Coot	FW	Guineafowl (Helmeted)	PX	Peafowl/Peacock	SE	Short-eared Owl		
CA	Cormorant	HF	Hawfinch	PE	Peregrine	SV	Shoveler		
CB	Corn Bunting	HH	Hen Harrier	PH	Pheasant	SK	Siskin		
CE	Corncrake	HG	Herring Gull	PF	Pied Flycatcher	S.	Skylark		
CI	Crested Tit	HY	Hobby	PW	Pied Wagtail	SZ	Slavonian Grebe		
CR	Crossbill (Common)	HZ	Honey Buzzard	PG	Pink-footed Goose	SN	Snipe		
CK	Cuckoo	HC	Hooded Crow	PT	Pintail	SB	Snow Bunting		
CU	Curlew	HP	Hoopoe	PO	Pochard	ST	Song Thrush		
DW	Dartford Warbler	HM	House Martin	PM	Ptarmigan	SH	Sparrowhawk		
DI	Dipper	HS	House Sparrow	PU	Puffin	AK	Spotted Crake		
DO	Dotterel	JD	Jackdaw	PS	Purple Sandpiper	SF	Spotted Flycatcher		
DN	Dunlin	J.	Jay	Q.	Quail	DR	Spotted Redshank		

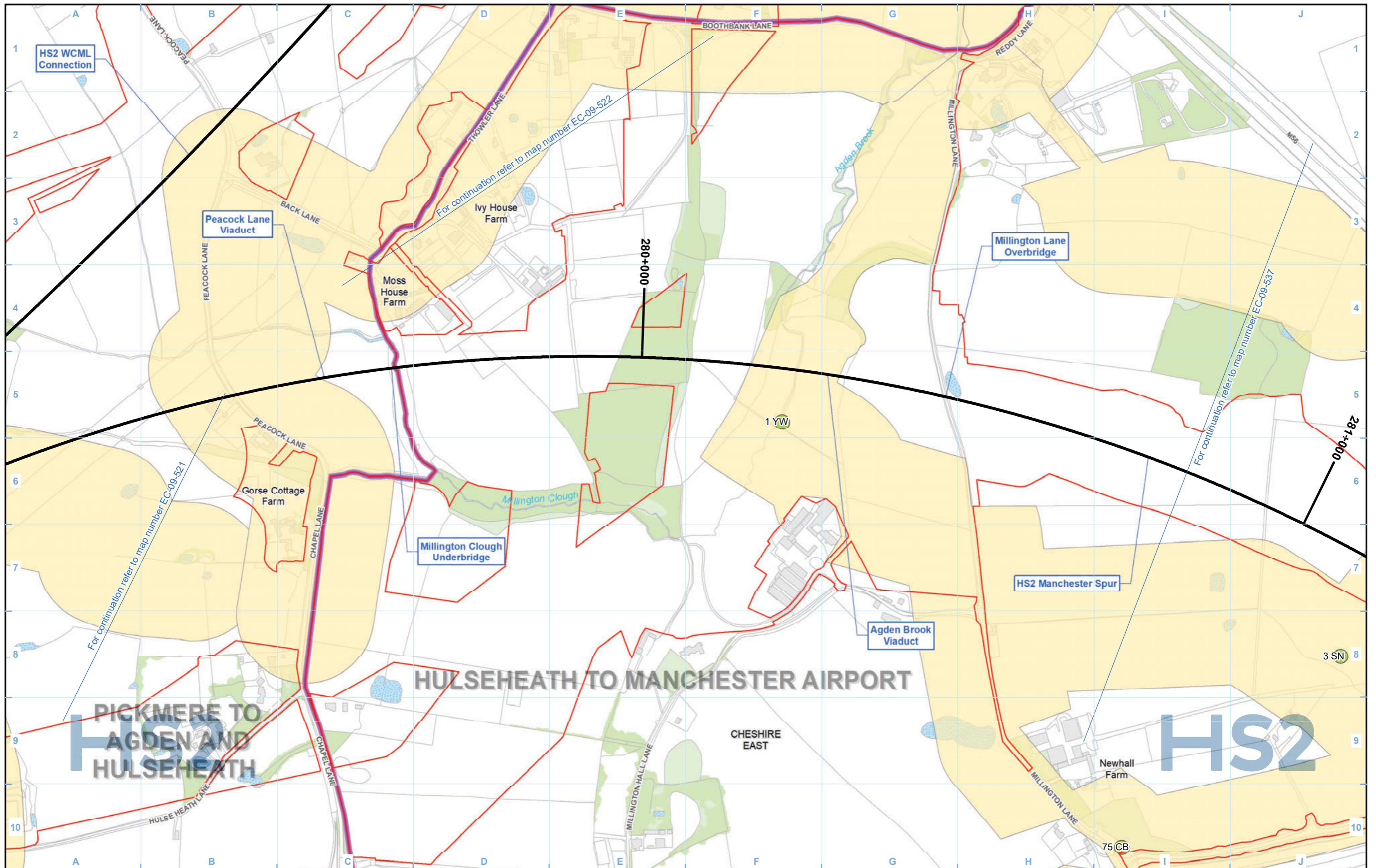
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Map Name	EC-09 BTO Bird Species Legend

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Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-536b

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA06: Hulseheath to Manchester Airport

HS2

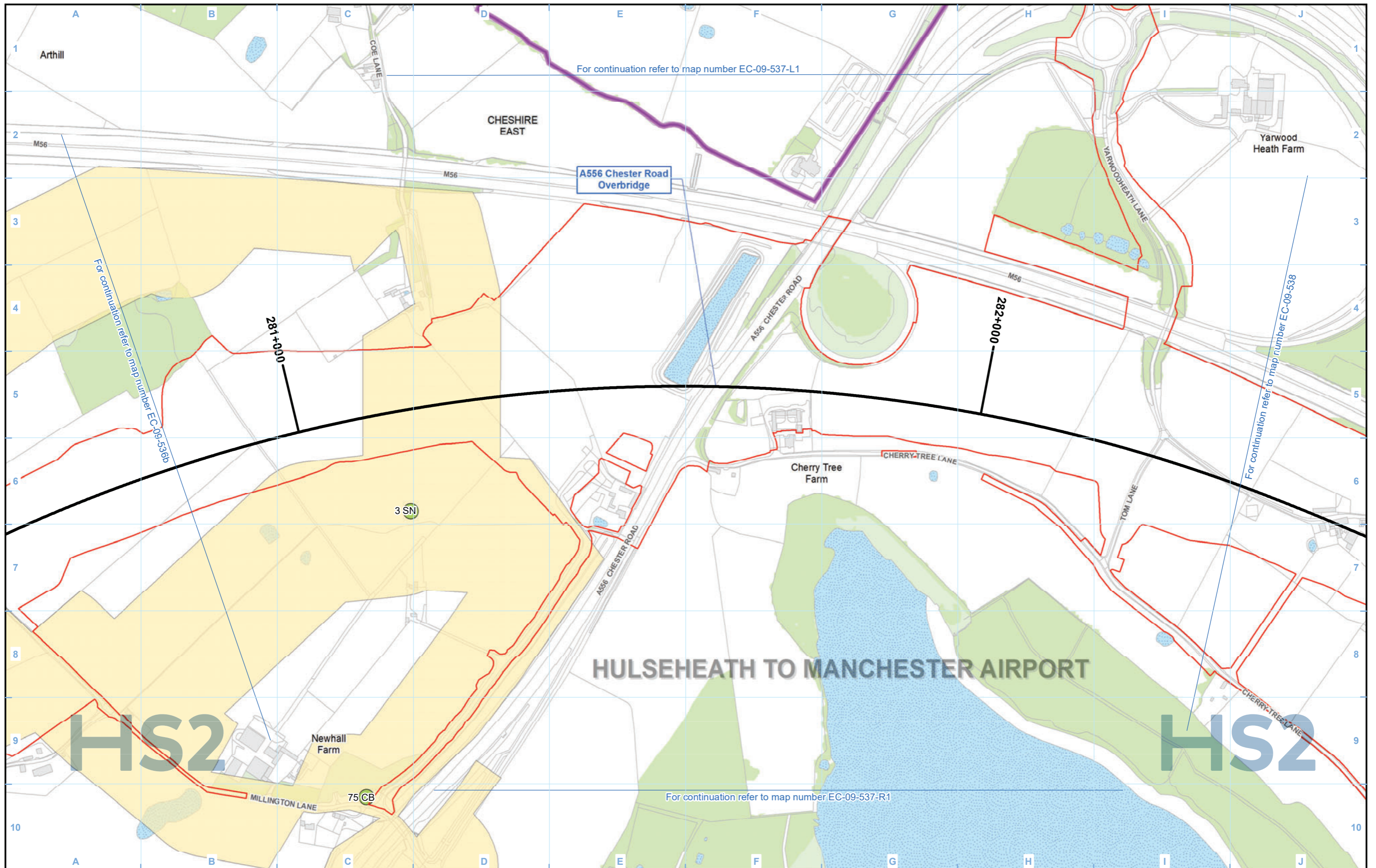
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Date: 12/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-537

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA06: Hulseheath to Manchester Airport

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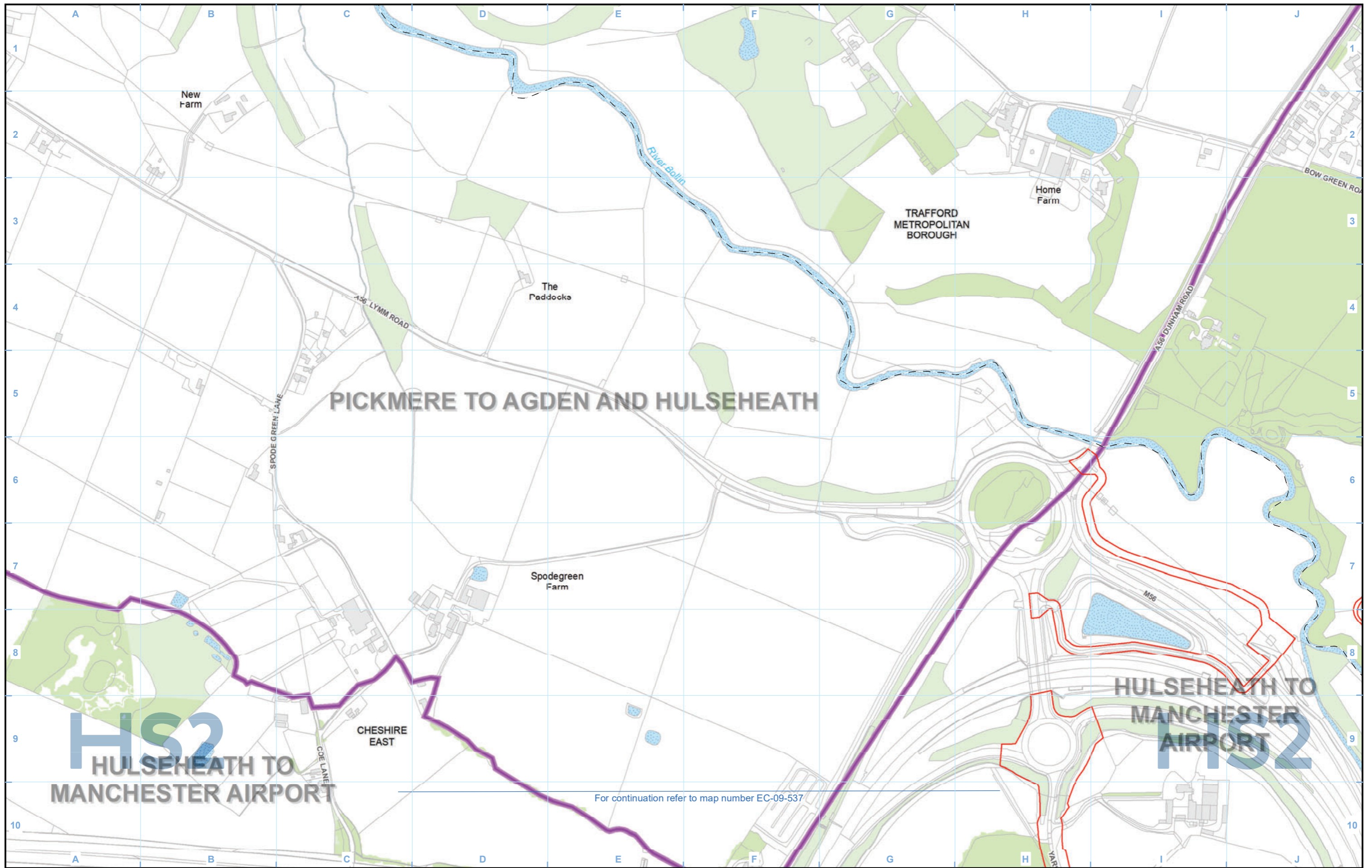
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PICKMERE TO AGDEN AND HULSEHEATH

**HS2
HULSEHEATH TO
MANCHESTER AIRPORT**

**HS2
HULSEHEATH TO
MANCHESTER
AIRPORT**

For continuation refer to map number EC-09-537

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-537-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA06:
Hulseheath to Manchester Airport

HS2

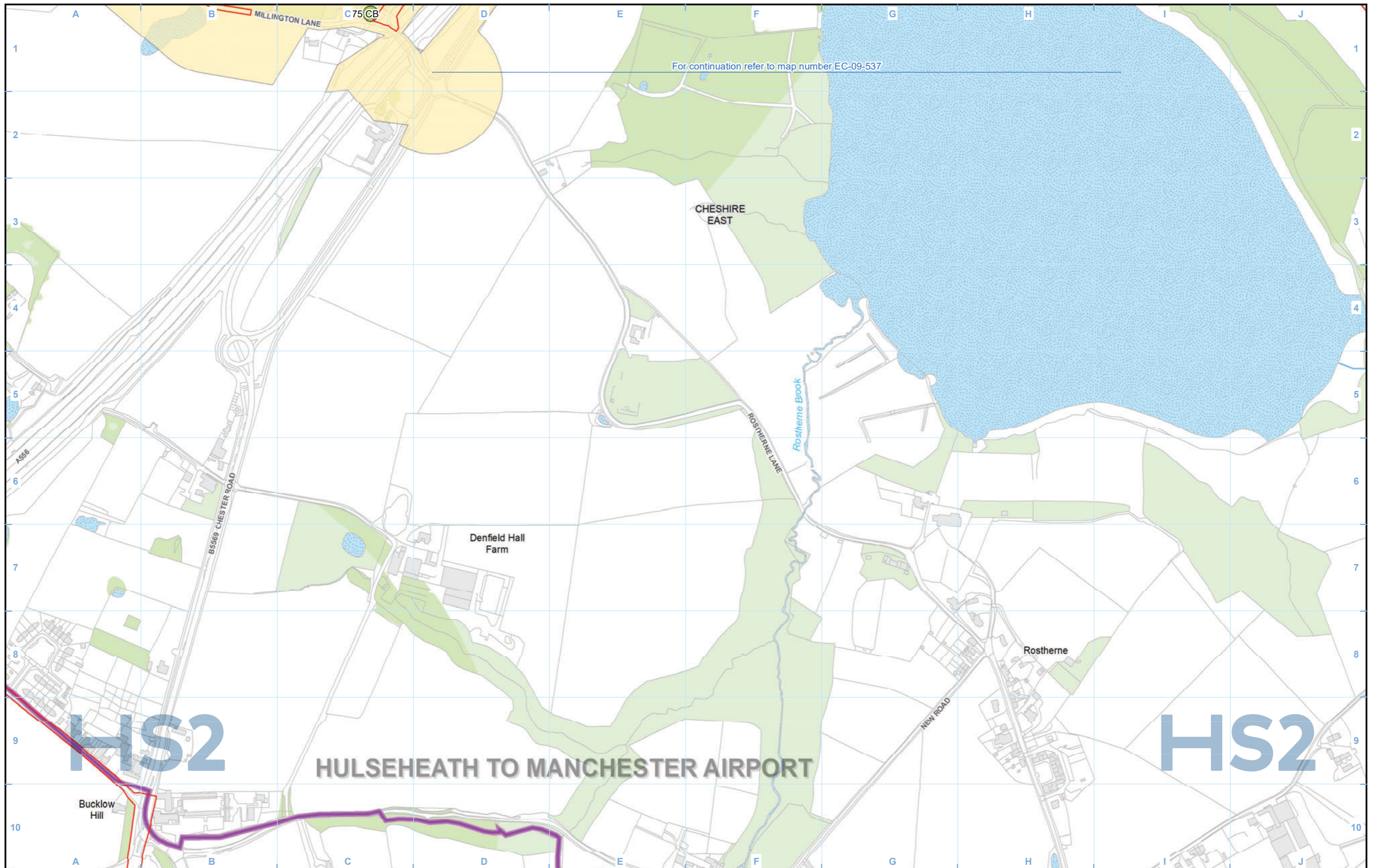
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-537-R1

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA06: Hulseheath to Manchester Airport

HS2

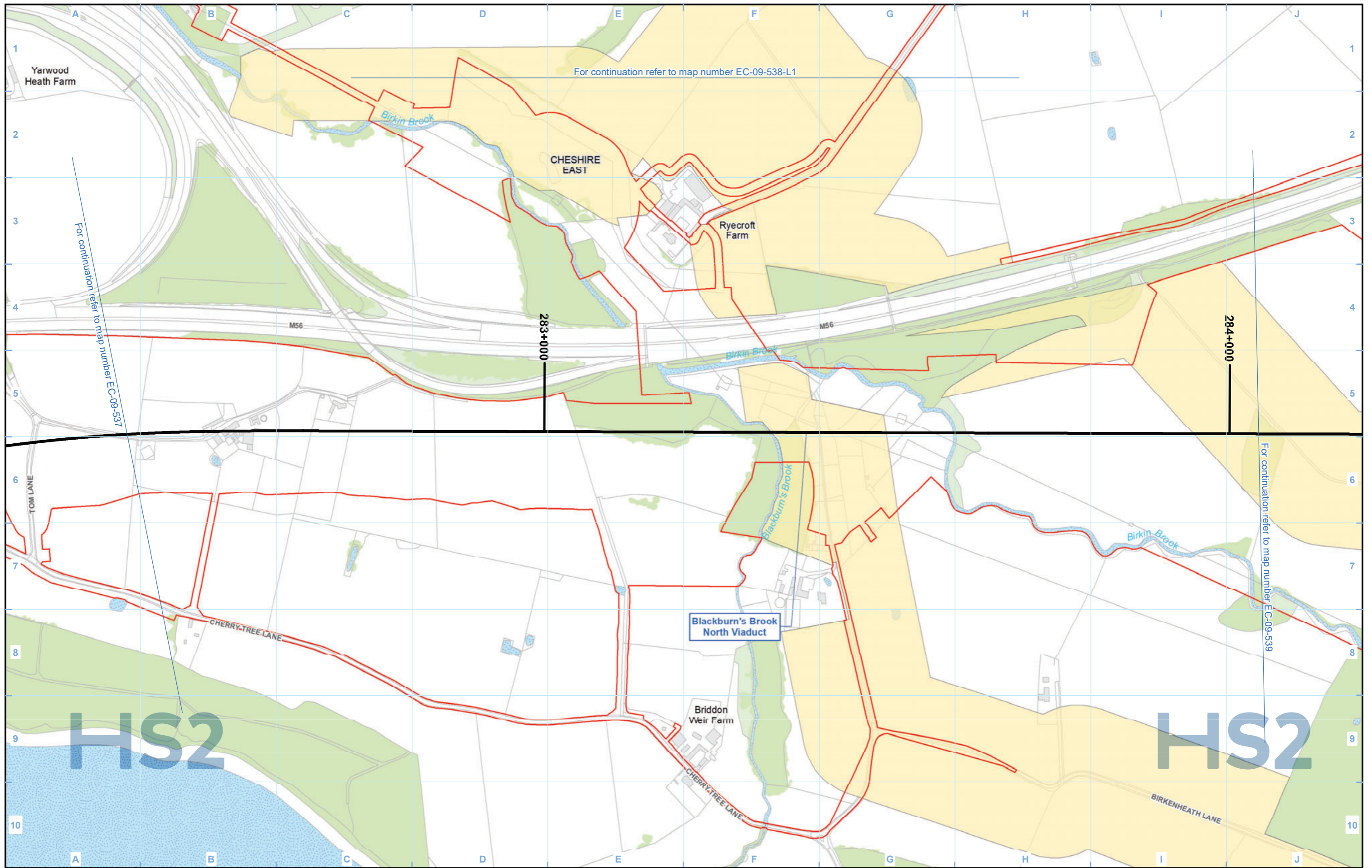
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number EC-09-538

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area MA06:
Hulseheath to Manchester Airport

HS2

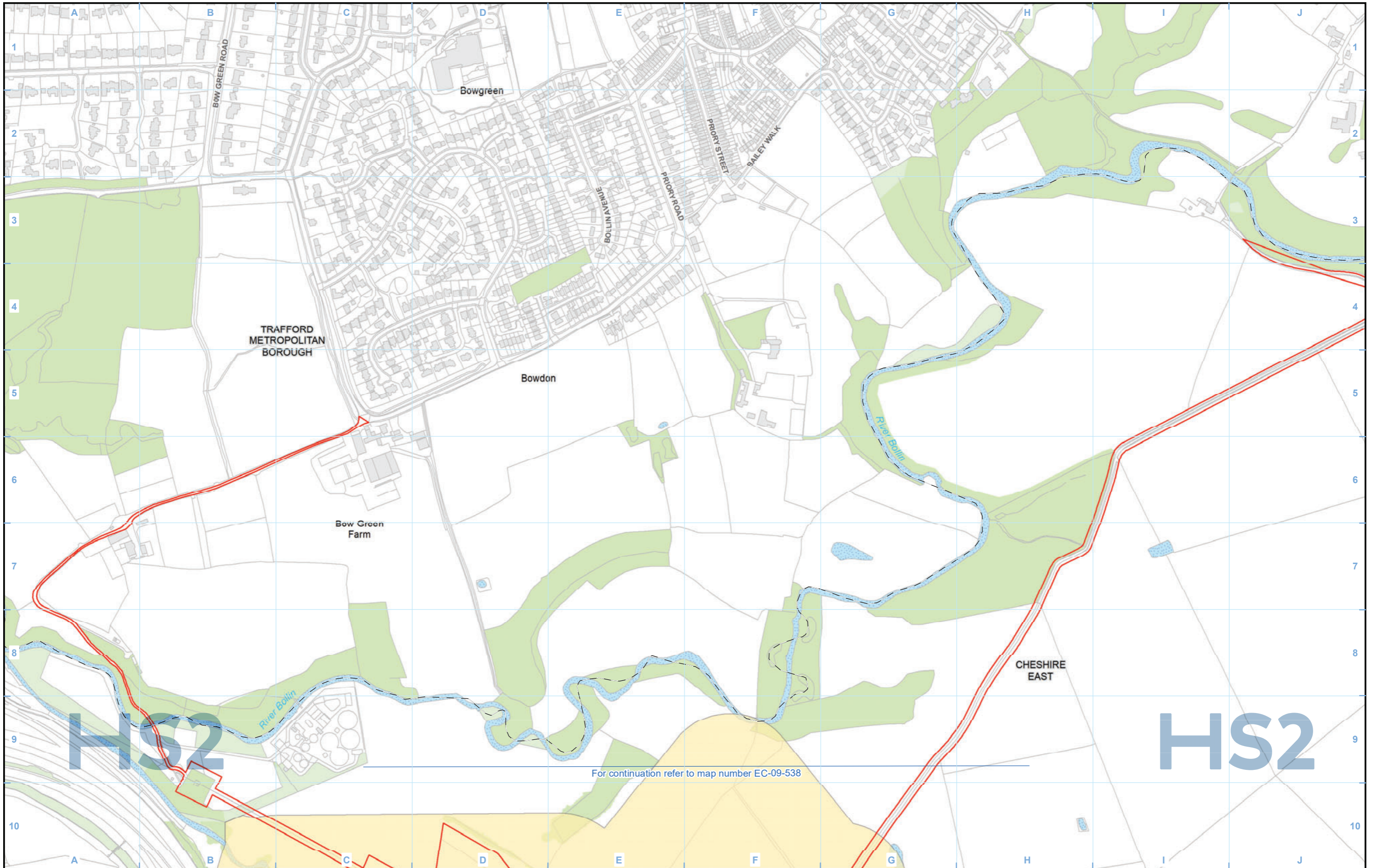
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Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-538-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA06:
Hulseheath to Manchester Airport

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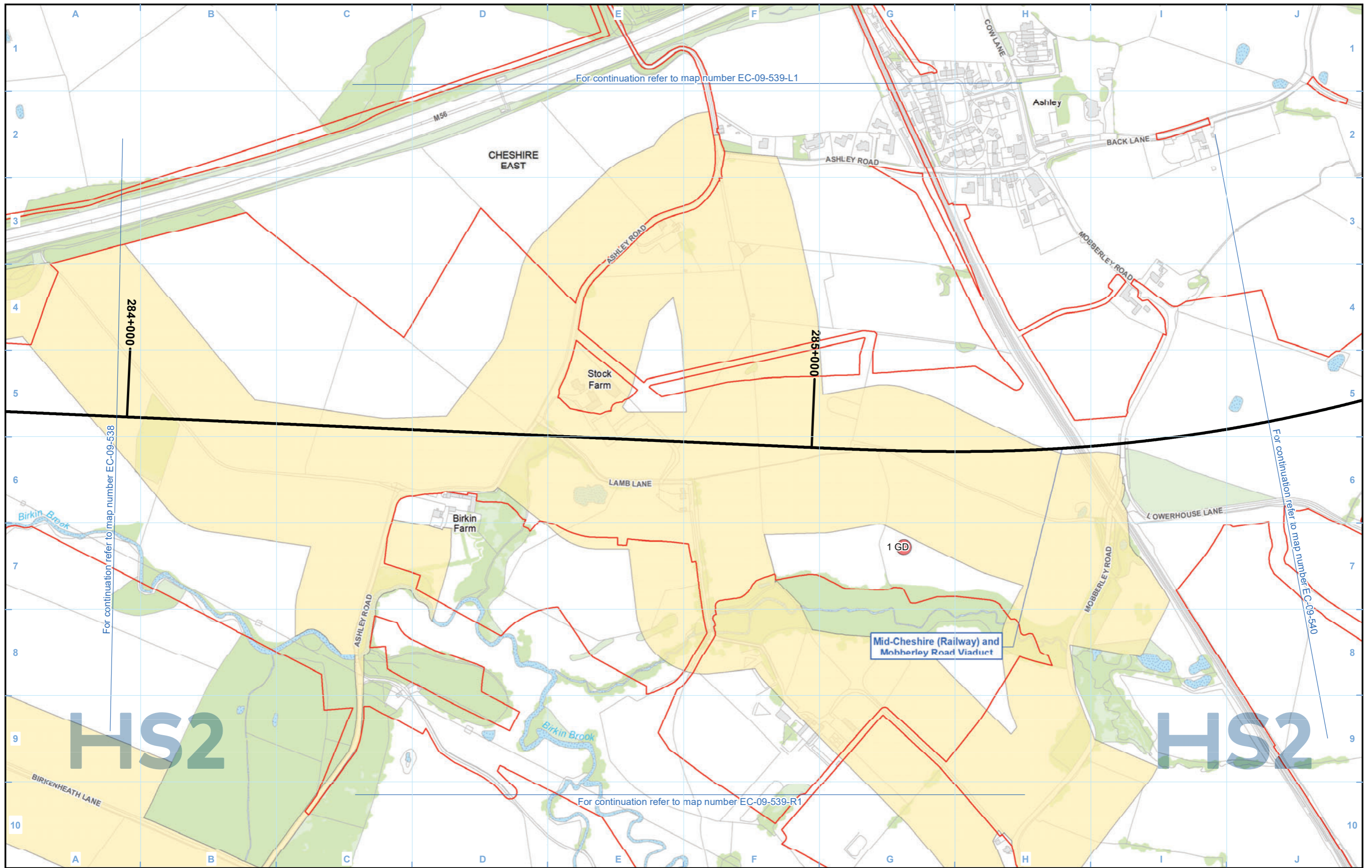
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number EC-09-539

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area MA06:
Hulseheath to Manchester Airport

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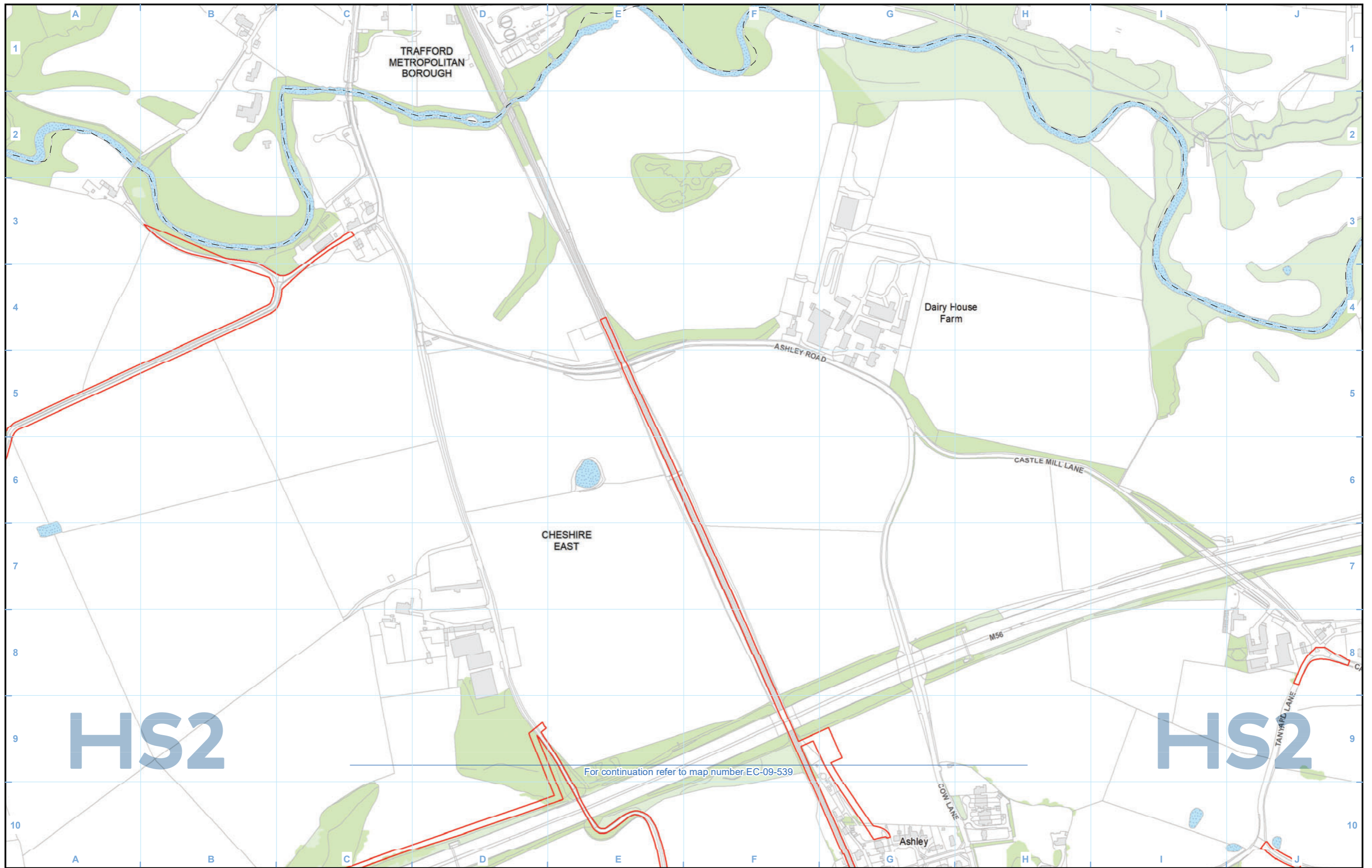
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Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-539-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA06:
Hulseheath to Manchester Airport

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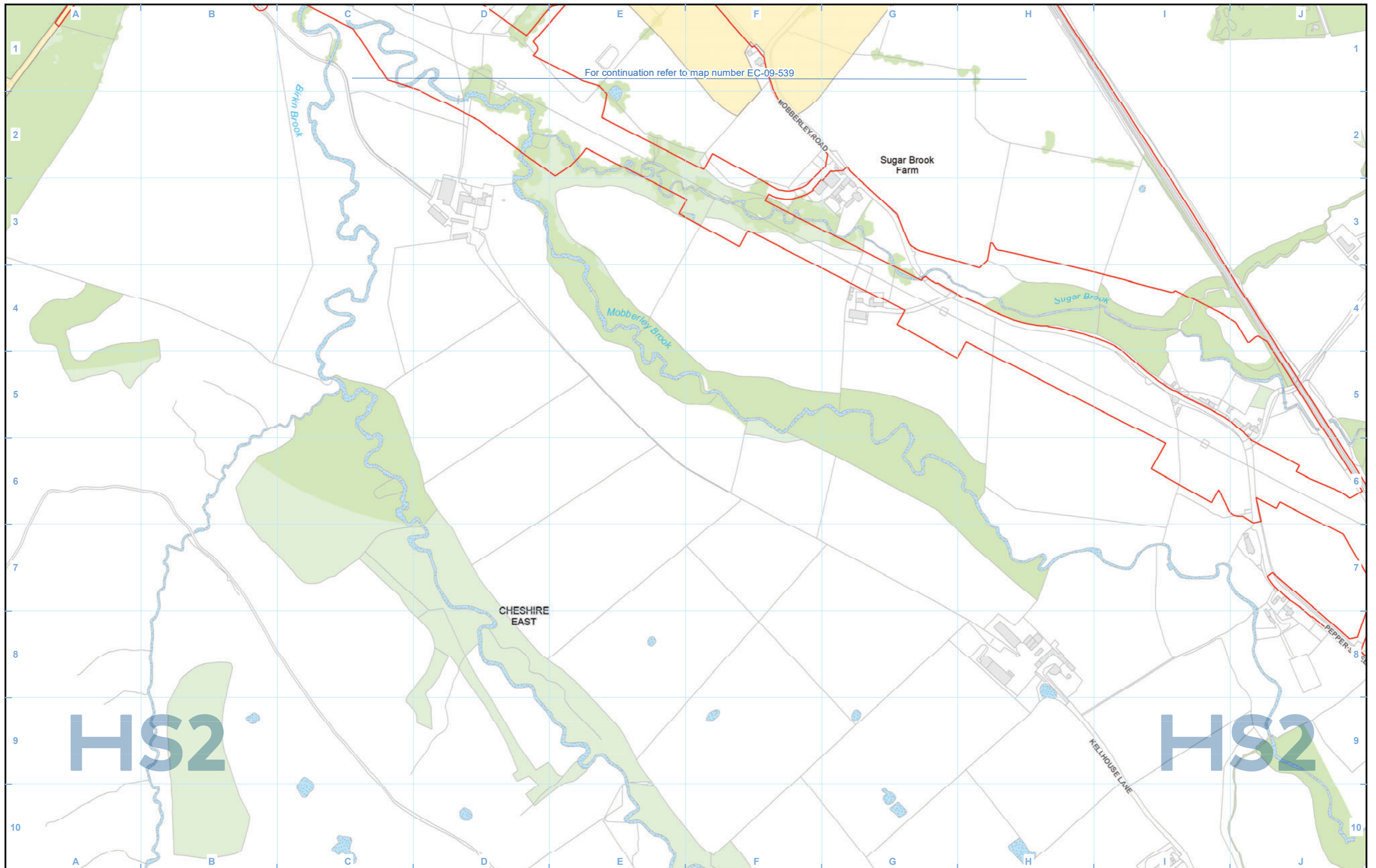
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Legend

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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-539-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA06:
Hulseheath to Manchester Airport

HS2

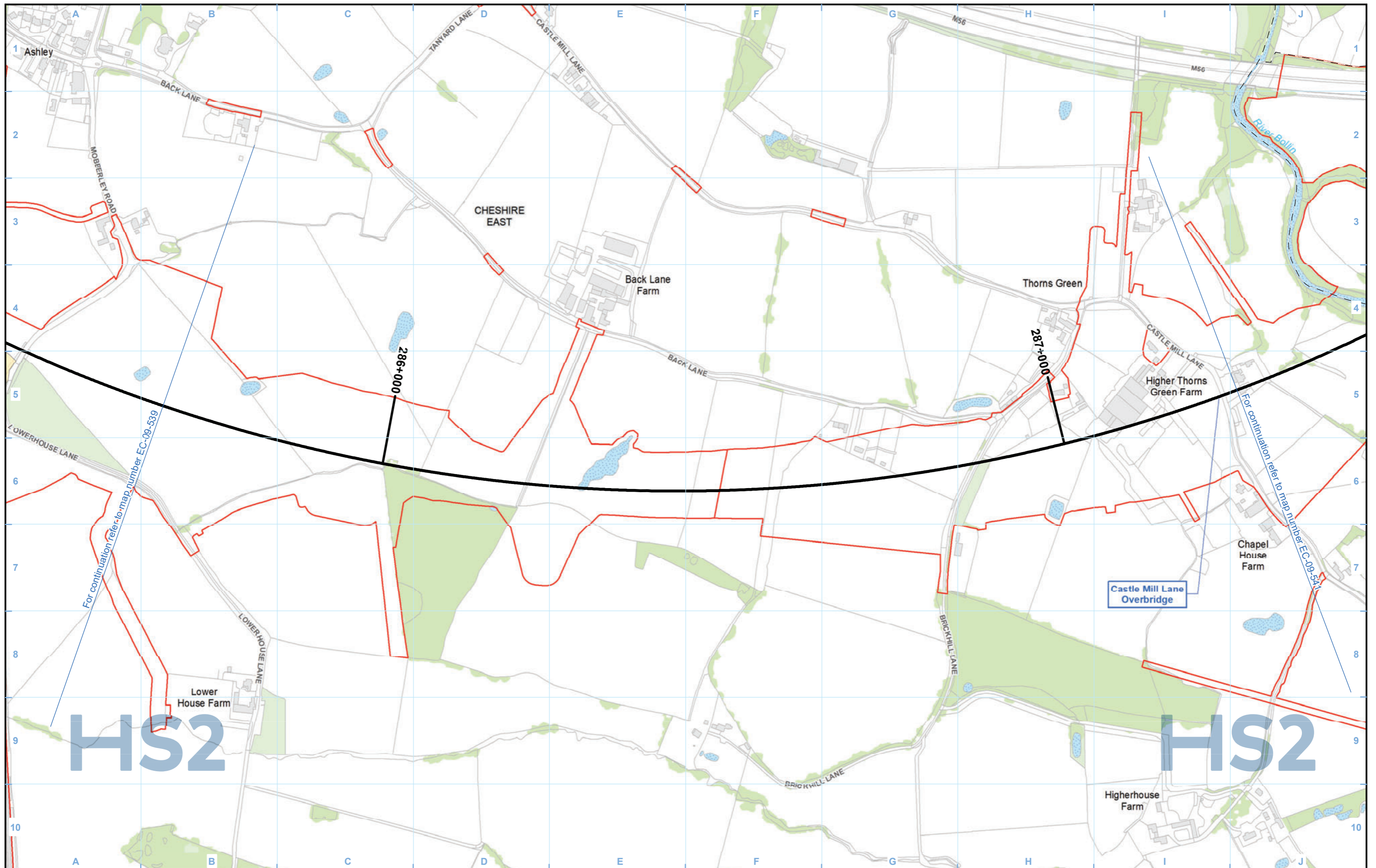
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Other notable species relevant to assessment		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-540

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA06:
Hulseheath to Manchester Airport

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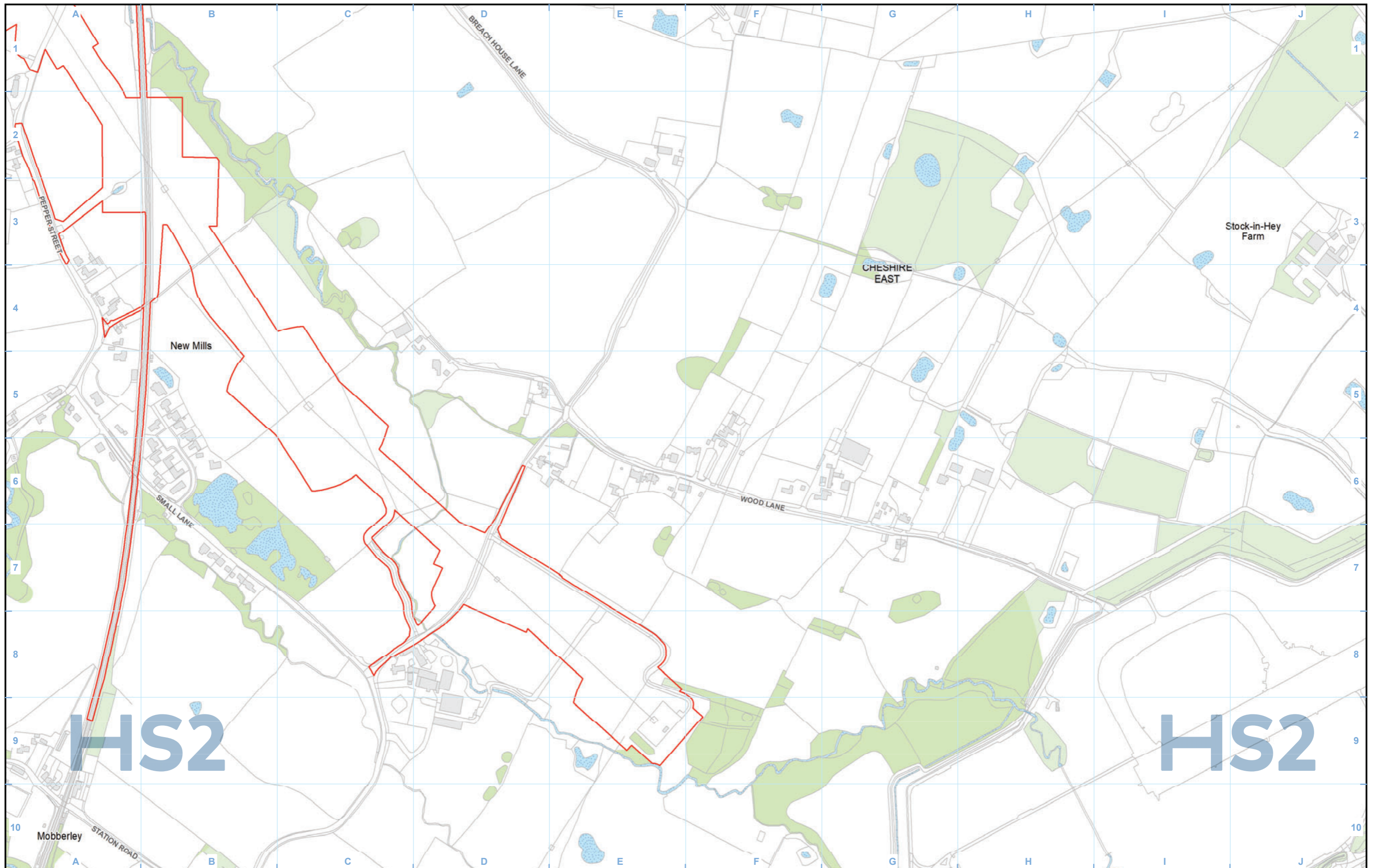
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Date: 12/08/21

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0 50 100 150 200 Metres



Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 	<ul style="list-style-type: none"> Wintering & passage birds - survey extent
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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-540-R1

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA06:
Hulseheath to Manchester Airport

HS2

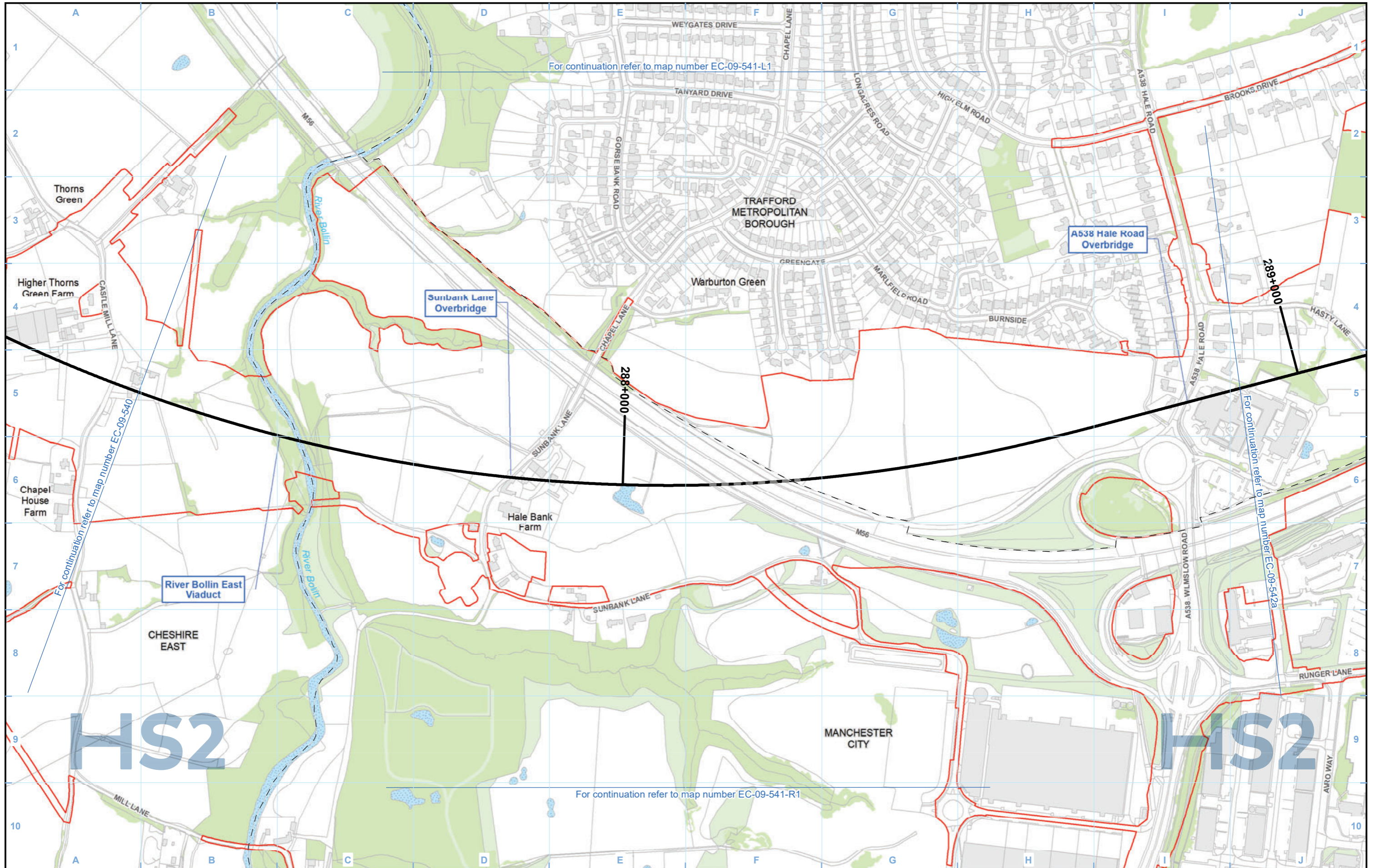
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Date: 12/08/21



For continuation refer to map number EC-09-541-L1

For continuation refer to map number EC-09-542A

For continuation refer to map number EC-09-541-R1

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-541

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA06: Hulseheath to Manchester Airport

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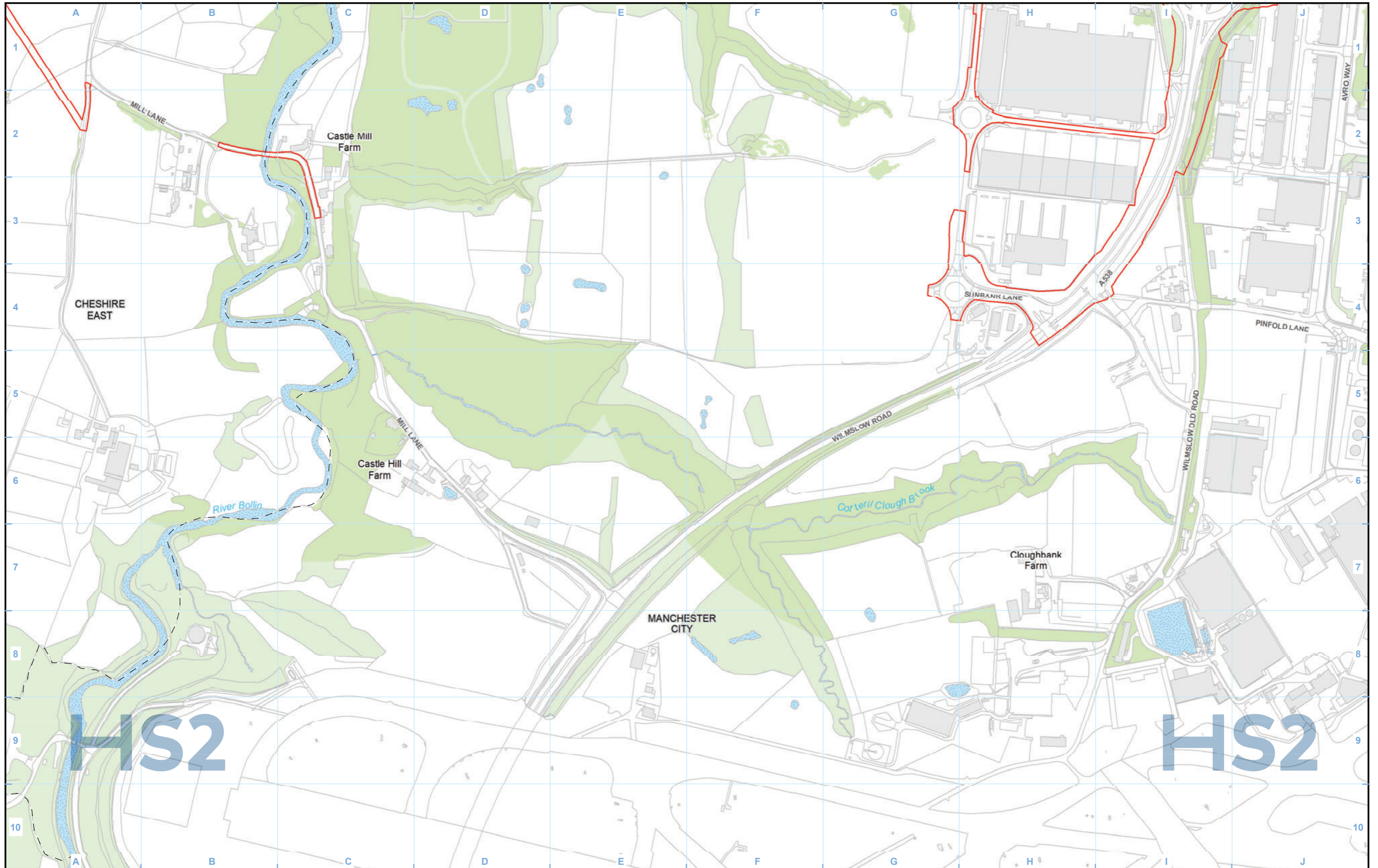
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Date: 12/08/21

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0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number **EC-09-541-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area MA06:
Hulseheath to Manchester Airport

HS2

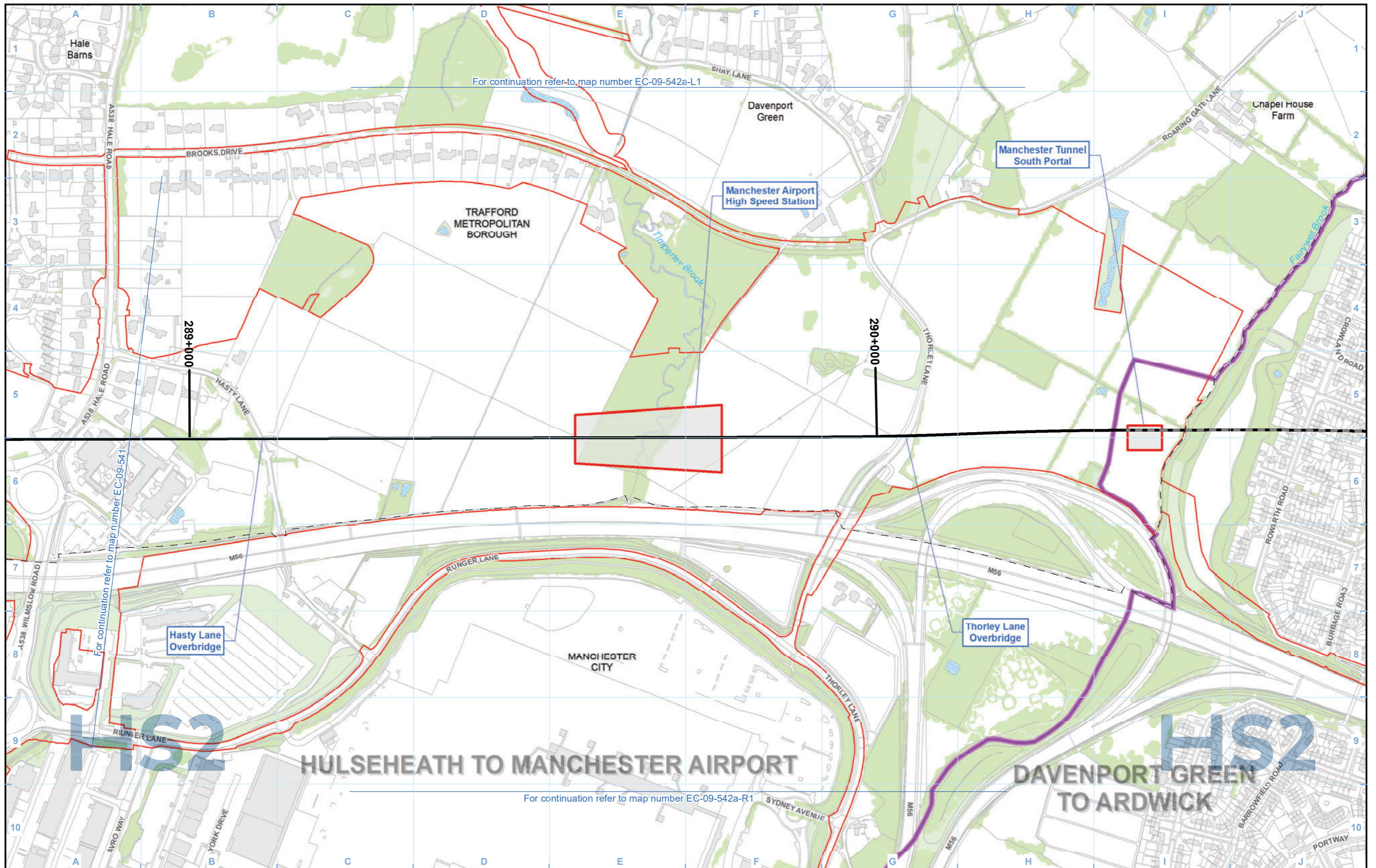
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Legend

- 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)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Birds of Conservation Concern
- Other notable species relevant to assessment
- Wintering & passage birds - survey extent

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number: EC-09-542a

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area MA06: Hulseheath to Manchester Airport

HS2

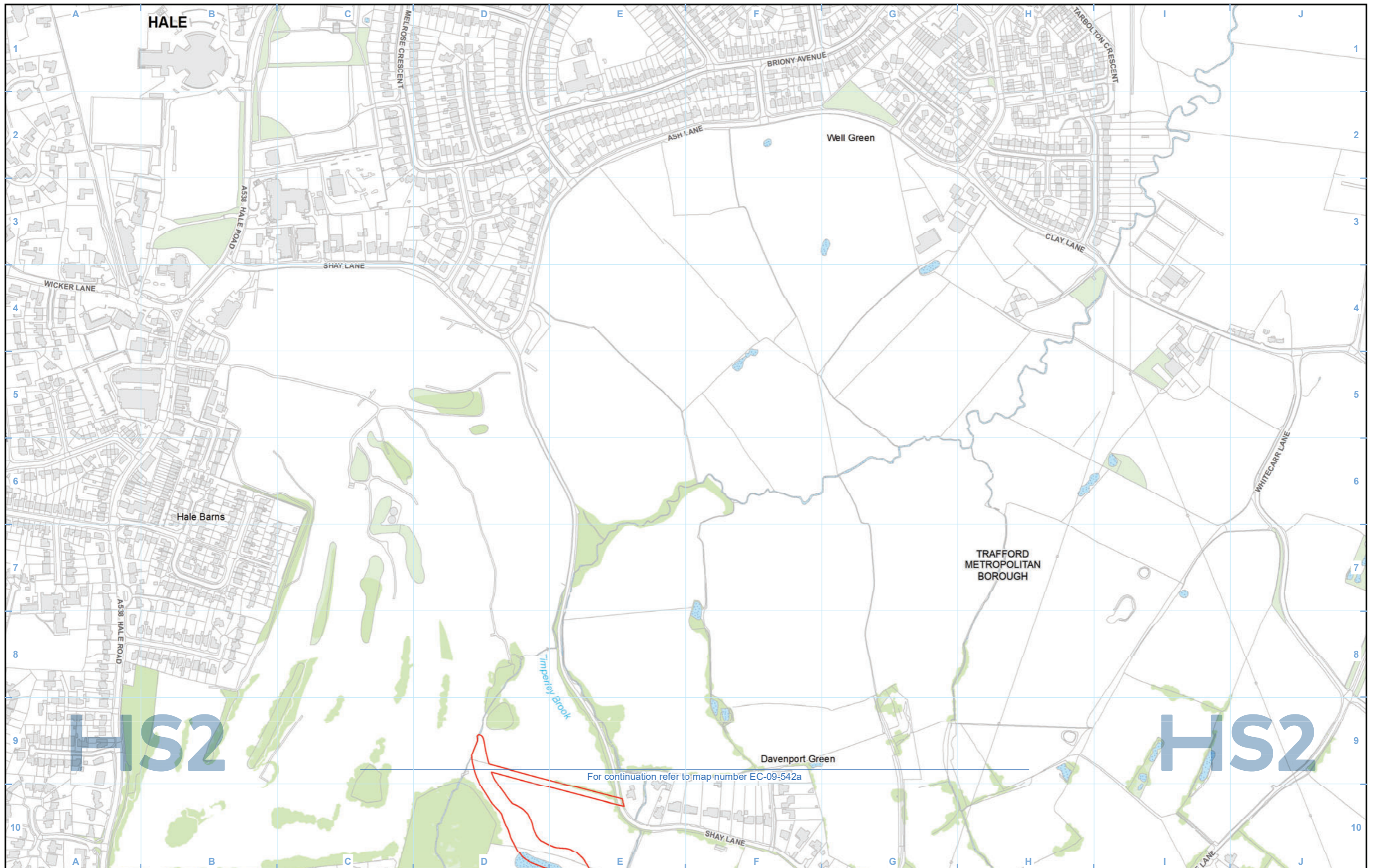
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For continuation refer to map number EC-09-542a

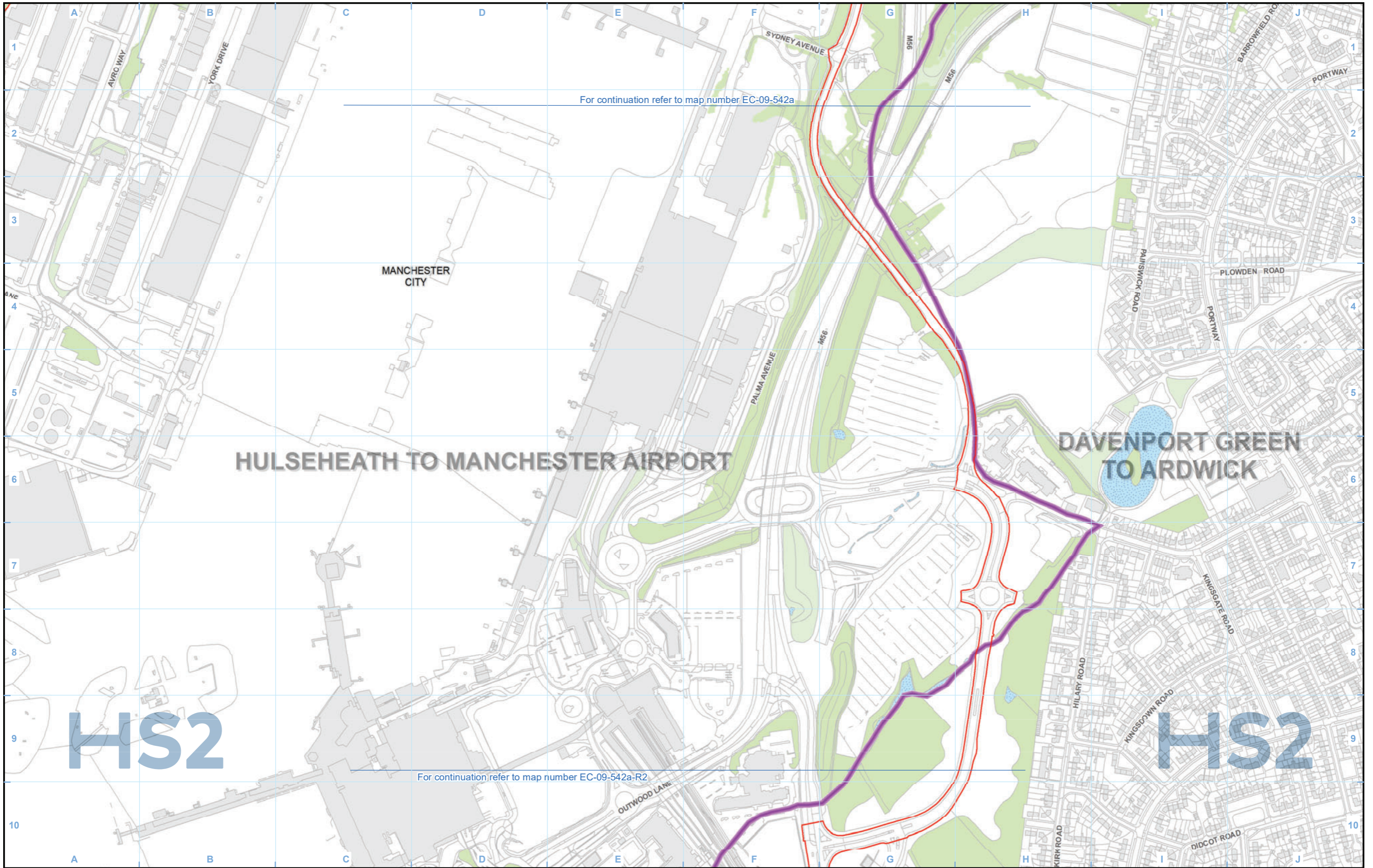
Legend

- | | | | |
|--|---|---|--|
| <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) | <ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment | <ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Wintering & passage birds - survey extent |
|--|---|---|--|

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number	EC-09-542a-L1
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area MA06: Hulseheath to Manchester Airport	

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For continuation refer to map number EC-09-542a

For continuation refer to map number EC-09-542a-R2

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number EC-09-542a-R1

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area MA06:
Hulseheath to Manchester Airport

HS2

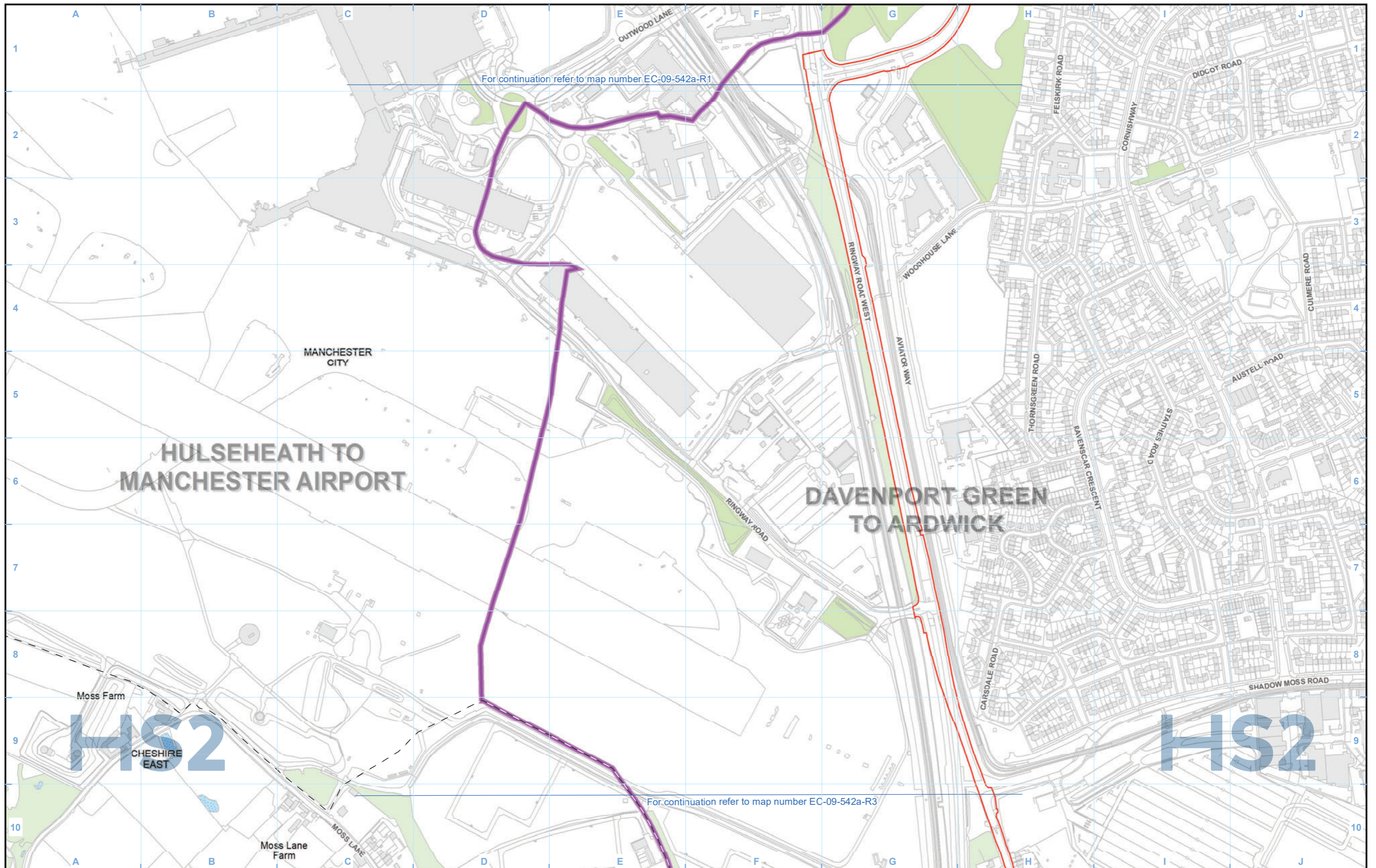
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Wintering & passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Birds of Conservation Concern	Other notable species relevant to assessment
Depot, station, headhouse or portal building	Woodland (verified by survey)			
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

For full legend please refer to EC-09 - Bird Species Legend Page

Map Number EC-09-542a-R2

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area MA06:
Hulseheath to Manchester Airport

HS2

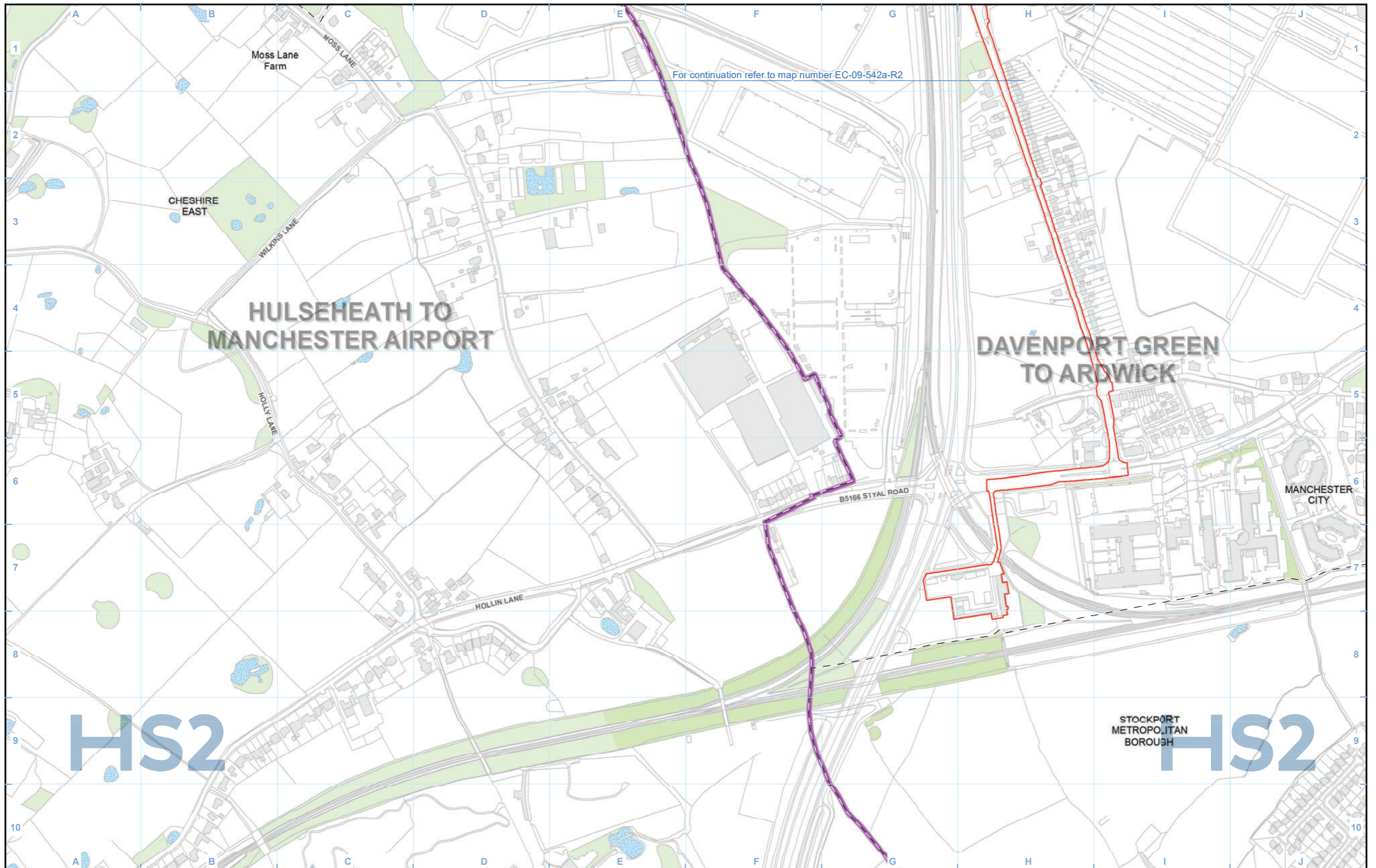
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Legend

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Birds of Conservation Concern Other notable species relevant to assessment 	<ul style="list-style-type: none"> Wintering & passage birds - survey extent
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For full legend please refer to EC-09 - Bird Species Legend Page

Map Number EC-09-542a-R3

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area MA06:
Hulseheath to Manchester Airport

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