

High Speed Rail (West Midlands - Crewe)

Environmental Statement

Volume 5: Map book

CA5: South Cheshire

Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)

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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.

High Speed Two (HS2) Limited,
Two Snowhill
Snow Hill Queensway
Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.gov.uk/hs2

A report prepared for High Speed Two (HS2) Limited:

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LV-00 - Route Wide Landscape Character Areas and National Character Areas

Map series name	Map series description
LV-02 - Landscape Character Areas	Maps showing the landscape character areas that have been considered for assessment and illustrating significant residual effects during construction and operation.
LV-07 - Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints	Maps showing the construction phase zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the Proposed Scheme has been undertaken. (All significant and non-significant photomontage locations are shown).
LV-08 - Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints	Maps showing the operational phase year one and year fifteen zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the Proposed Scheme has been undertaken. (All significant and non-significant photomontage locations are shown).
LV-17 - Routewide Landscape Context	Maps showing the proposed scheme and planting in context with the wider landscape.

Mapping explanatory notes

Structure of the HS2 Phase 2a Environmental Statement

This map book is part of the suite of documents that make up the Environmental Statement (ES) for Phase 2a of the proposed High Speed Two (HS2) rail network between the West Midlands and Crewe (the Proposed Scheme).

The ES documentation comprises the following:

- Non-technical summary. This provides: a summary in non-technical language of the Proposed Scheme and the reasonable alternatives studied; the likely significant effects of the Proposed Scheme; the means to avoid, prevent or reduce the likely significant environmental effects; and an outline of the monitoring measures to manage the effects of construction and the effectiveness of mitigation post construction, as well as appropriate operational phase monitoring.
- Glossary of terms and list of abbreviations. This contains terms and abbreviations, including units of measurement used throughout the ES documentation.
- Volume 1: Introduction and methodology. This provides: a description of HS2, the EIA process and the approach to consultation and engagement; details of the permanent features of the Proposed Scheme and general construction techniques; a summary of the scope and methodology for the environmental topics; an outline of the general approach to mitigation; an outline of the approach to monitoring, including measures to manage the effects of construction, the effectiveness of mitigation post construction, as well as the approach to operational phase monitoring; and a summary of the reasonable alternatives studied (including local alternatives studied prior to the November 2015 route announcement). Local alternatives studied post November 2015 are discussed in the relevant Volume 2 community area reports.
- Volume 2: Community area reports and map books. These cover the following community areas: 1 Fradley to Colton; 2 Colwich to Yarlet; 3 Stone and Swynnerton; 4 Whitmore Heath to Madeley; and 5 South Cheshire. The reports provide the following for each area: an overview of the area; a description of the construction and operation of the Proposed Scheme within the area; a summary of the local alternatives studied since November 2015; a description of the environmental baseline; a description of the likely significant environmental effects of the Proposed Scheme; the proposed means to avoid, prevent or reduce the likely significant environmental effects; and the proposals for monitoring, including measures during and post construction, and during the operational phase.
The maps relevant to each community area are provided in separate Volume 2 map books. These maps should be read in conjunction with the relevant community area report. These maps include the location of the key environmental features (Map Series CT-10), key construction features (Map Series CT-05) and key operation features (Map Series CT-06) of the Proposed Scheme. There are also specific maps showing viewpoint and photomontage locations (Map Series LV, to be read in conjunction with Section 11, Landscape and visual of the Volume 2: community area reports) and noise contours (Map Series SV, to be read in conjunction with Section 13, Sound, noise and vibration of the Volume 2: community area reports).
- Volume 3: Route-wide effects. This describes the likely significant environmental effects that are likely to occur at a geographical scale greater than the community areas described in Volume 2.
- Volume 4: Off-route effects. This provides an assessment of the likely significant environmental effects of the Proposed Scheme at locations beyond the Phase 2a route corridor and its associated local environment. The maps relevant to the assessment of off-route effects are provided in a separate map book.
- Volume 5: Appendices and map books. This contains supporting technical information and associated map books to be read in conjunction with the other volumes of the ES.

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.

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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 XX+YYY. E.g. 192+000 or 239+500.

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

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

Map orientation

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

The exception to this, are map series LV-02, LV-03, LV-04, LV-07 and LV-08, which present the alignment running from bottom to top of the page. This is to allow more of the modelled outputs to be shown at the appropriate map scale. In this instance, the direction of travel to London would be to the bottom of the page, and Crewe to the top. Map series TR-08 is orientated north.

Map books

In total there are 22 map books which make up the ES, spread across volumes 2, 4 and 5. A list of the titles is provided below for reference.

Name	Name
Volume 2: Map book – CA1: Fradley to Colton	Volume 5: Map book – Land Quality (LQ-01)
Volume 2: Map book – CA2: Colwich to Yarlet	Volume 5: Map book – CA1: Fradley to Colton - Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)
Volume 2: Map book – CA3: Stone and Swynnerton	Volume 5: Map book – CA2: Colwich to Yarlet - Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)
Volume 2: Map book – CA4: Whitmore Heath to Madeley	Volume 5: Map book – CA3: Stone and Swynnerton - Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)
Volume 2: Map book – CA5: South Cheshire	Volume 5: Map book – CA4: Whitmore Heath to Madeley - Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)
Volume 4: Map book – Off-route effects	Volume 5: Map book – CA5: South Cheshire - Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)
Volume 5: Map book – Agriculture, forestry and soils (AG-01, AG-02 & AG-04)	Volume 5: Map book – Planning Data/Committed Development (CT-13)
Volume 5: Map book – Air quality (AQ-01)	Volume 5: Map book – Socio-Economics (SE-01)
Volume 5: Map book – Community (CM-01)	Volume 5: Map book – Sound, Noise and Vibration (SV-01, SV-02, SV-03 & SV-04)
Volume 5: Map book – Cultural Heritage (CH-01, CH-02, CH-03)	Volume 5: Map book – Traffic and Transport (TR-03, TR-04 & TR-08)
Volume 5: Map book – Ecology - designated sites (EC-01)	Volume 5: Map book – Water Resources and Flood Risk (WR-01, WR-02, WR-03, WR-05, WR-06)

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High Speed Rail (West Midlands-Crewe)
Environmental Statement
Data dictionary and definitions

Data dictionary and definitions

Legend features	Definition	Source	Copyright
5m contours	5m contour lines showing illustrating the surrounding topography.	GeoStore	©GeoPerspectives
Area of Outstanding Natural Beauty (AONB)	An Area of Outstanding Natural Beauty (AONB) is an area of high scenic quality which has statutory protection in order to conserve and enhance the natural beauty of its landscape. AONB landscapes range from rugged coastline to water meadows to gentle lowland and upland moors. Natural England has a statutory power to designate land as Areas of Outstanding Natural Beauty under the Countryside and Rights of Way Act 2000.	Natural England	© Natural England copyright 2017
Balancing pond	The proposed location and extent of balancing ponds for drainage attenuation and infiltration. Outer boundary represents the perimeter.	High Speed Two (HS2) Ltd	
Community area boundary	The Environmental Statement has been split into 5 sections called Community Areas.	High Speed Two (HS2) Ltd	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
Construction compounds	Main construction compounds in which main contractors offices and welfare facilities will be located. Satellite construction compounds which serve local works for major construction elements within a main contract.	High Speed Two (HS2) Ltd	
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
Depot, station, headhouse or portal building	Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures.	High Speed Two (HS2) Ltd	
District/Borough boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
Ecological mitigation pond	Ponds whose primary function is to provide ecological mitigation. This could be a standalone pond or part of a wider wetland habitat creation plan.	High Speed Two (HS2) Ltd	
Engineering earthworks: Cutting	Cuttings created in the construction of the railway and associated works such as highways.	High Speed Two (HS2) Ltd	
Engineering earthworks: Embankment	Embankments created in the construction of the railway and associated works such as highways.	High Speed Two (HS2) Ltd	
Existing woodland and tree belts	A dataset showing large areas of trees that are likely to have an impact on whether the scheme is visible during construction and vegetation. It was used in the ZTV as part of the base models.	High Speed Two (HS2) Ltd	
Land potentially required during construction	Boundary defining the maximum possible extent of construction works required to build HS2 as far as the current level of design allows. This only covers surface works and includes all tunnel portals, vent shafts and headhouses, but does not apply to wholly tunnelled sections or to air rights. It also encompasses associated highway, access, drainage and utility works.	High Speed Two (HS2) Ltd	
Landscape character areas (LCA)	This dataset represents the landscape character areas that have been assessed route wide as defined by the Landscape Architects. Landscape character areas (LCAs) are single unique areas which are the discrete	High Speed Two (HS2) Ltd	

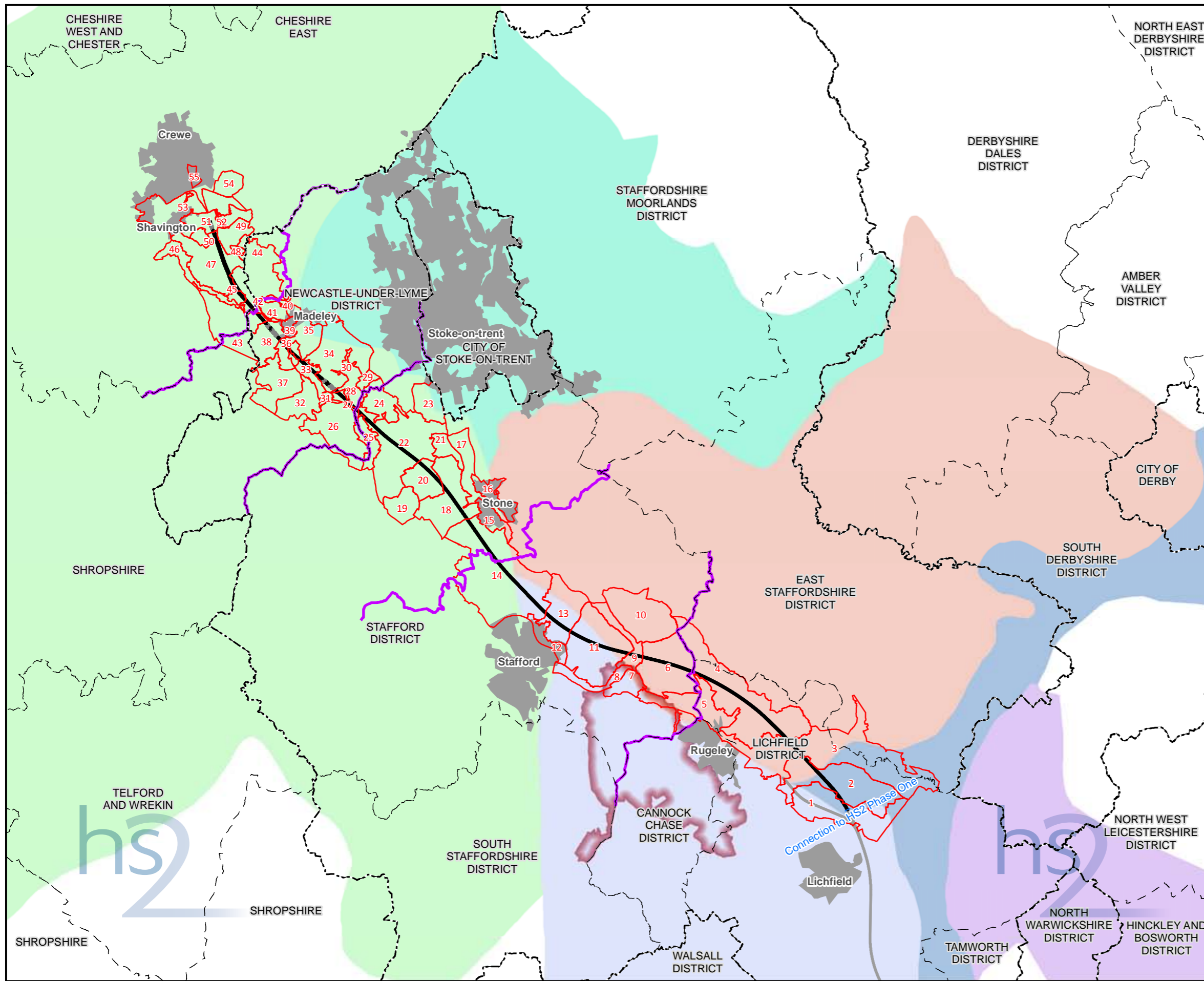
Legend features	Definition	Source	Copyright
	geographical areas of a particular landscape type.		
Non engineering earthworks: Cutting	Cuttings created in the construction of landscape features and mitigation measures.	High Speed Two (HS2) Ltd	
Non engineering earthworks: Embankment	Embankments created in the construction of landscape features and mitigation measures.	High Speed Two (HS2) Ltd	
Other planting and hedgerows	Soft landscape design that can include any seeded areas for the purpose of creating grassland except for the engineering earthworks. Ecological mitigation area to provide new wetland habitat creation, enhancements to existing areas and areas for ecological management. This level does not include screening planting for visual mitigation purposes.	High Speed Two (HS2) Ltd	
Photomontage location	Shows the locations from which verifiable photomontages have been produced. The locations are based on a fully surveyed point.	High Speed Two (HS2) Ltd	
Proposed tree planting	A dataset showing proposed planting that may have an impact on whether the scheme is visible during construction and operation. It was used in the operation year 15 ZTV.	High Speed Two (HS2) Ltd	
Public Rights of Way	Public rights of way are highways which can be used for the following purposes: - Footpaths - pedestrian's only - Bridleways - pedestrians, cyclists and equestrians - Restricted byways - as bridleways plus non-motorised vehicles - Byways open to all traffic. Definitive Map data supplied by surveying authorities.	Staffordshire County Council Cheshire East Council	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017. © Staffordshire County Council © Cheshire East Council
Route in tunnel Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Significantly affected viewpoint Non significantly affected viewpoint	This dataset shows the locations of the visual receptors from which the schemes visual impact has been assessed and shows whether or not the impact is significant or non-significant during construction and operation.	High Speed Two (HS2) Ltd	
Water body	Any mass of water having definite hydrological, physical, chemical and biological characteristics.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
Zone of Theoretical Visibility (ZTV) construction	This is a computer generated model showing areas of land within which the activities undertaken during the construction of the scheme may be theoretically visible. ZTV has been used as a tool for identifying likely areas for survey and assessment based on initial scheme design.	High Speed Two (HS2) Ltd	
Zone of Theoretical Visibility (ZTV) operation year 1	This is a computer generated model showing areas of land within which the scheme may be theoretically visible on day 1 of operation.	High Speed Two (HS2) Ltd	
Zone of Theoretical Visibility (ZTV) operation year 15	This is a computer generated model showing areas of land within which the scheme may be theoretically visible after 15 years of operation by incorporating an assumed height of 7.5 metres for any mitigation planting.	High Speed Two (HS2) Ltd	

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High Speed Rail (West Midlands-Crewe)

Environmental Statement

**LV-00 - Route Wide Landscape Character Areas
and National Character Areas**



ID	Landscape Character Area
1	Fradley Settled Heathlands
2	Kings Bromley Terrace Alluvial Lowlands
3	Trent Riparian Alluvial Lowlands
4	Colton and Stockwell Heath Settled Farmlands
5	Colton Riparian Alluvial Lowlands
6	Great Haywood Settled Plateau Farmland Slopes
7	Shugborough Designed Parkland
8	Shugborough Riparian Alluvial Lowlands
9	Ingestre Riparian Alluvial Lowlands
10	Hixon Settled Farmlands
11	Ingestre Park Sandstone Estatelands
12	Stafford Sandstone Estatelands
13	Hopton Sandstone Estatelands
14	Stone and Whitgreave Settled Farmlands
15	Walton (urban)
16	Stone (urban)
17	Trent Valley Coalfield Farmlands
18	Yarnfield Settled Farmlands
19	Swynnerton Training Area Sandstone Hills and Heaths
20	Swynnerton Park Sandstone Hills and Heaths
21	Tittensor Chase Sandstone Hills and Heaths
22	Swynnerton Village Sandstone Hills and Heaths
23	Trentham Park
24	Swynnerton Old Park Sandstone Hills and Heaths
25	Meece Brook Valley Sandstone Hills and Heaths
26	Baldwin's Gate Sandstone Hills and Heaths
27	Upper Meece Brook Valley Alluvial Lowlands
28	Upper Meece Brook Valley Ancient Redlands
29	Meece Ancient Redlands
30	Whitmore Hall Valley Ancient Redlands
31	Baldwin's Gate Built Area
32	Maer Sandstone Hills and Heaths
33	Upper Lea Valley Ancient Redlands
34	Hey Sprink Ancient Redlands and Woodlands
35	Madeley Ancient Redlands
36	Old Madeley Manor Ancient Redlands
37	Onneley Sandstone Hills and Heaths
38	Madeley Ancient Clay Farmlands
39	Madeley Built Area
40	Madeley Manor Ancient Redlands
41	Madeley North Ancient Clay Farmlands
42	Madeley Valley
43	Checkley Farms and Woods
44	Betley Ancient Clay Farmlands
45	The Grange Lower Farms and Woods
46	Checkley Brook Lower Farms and Woods
47	Blakenhall Lower Farms and Woods
48	Border Fisheries Lower Farms and Woods
49	Wychwood Park
50	Hough Common
51	Shavington/Crewe Outer Fringe Lower Farms and Woods
52	Basford Brook Lower Farms and Woods
53	Crewe Urban Fringe
54	Crewe Hall
55	Crewe Station Built Area

Legend

- Route in tunnel
- Route on surface
- Community area boundary
- County boundary
- District/Borough boundary
- Landscape Character Area boundary
- Cannock Chase and Cank Wood
- Mease/Sence Lowlands
- Needwood and South Derbyshire Claylands
- Potteries and Churnet Valley
- Shropshire, Cheshire and Staffordshire Plain
- Trent Valley Washlands
- Large urban area
- Cannock Chase Area of Outstanding Natural Beauty (AONB)

Map Number: LV-00-101

Map Name: Route Wide Landscape Character Areas and National Character Areas

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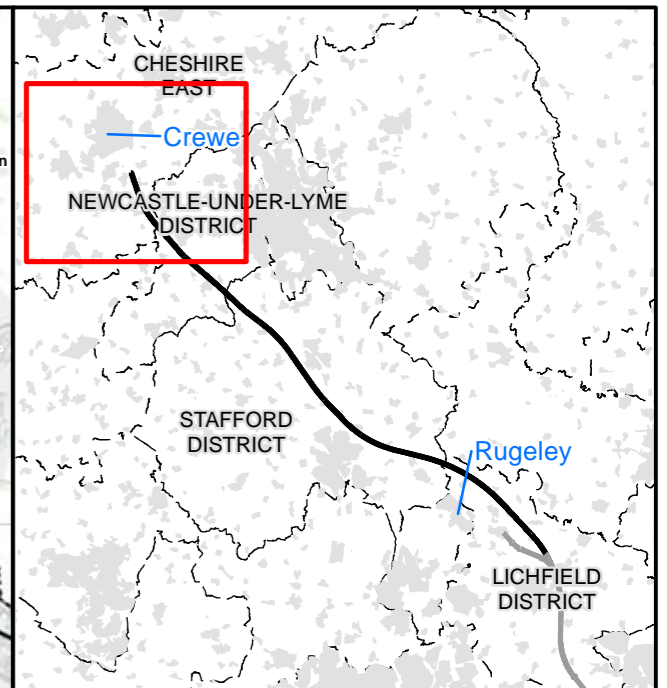
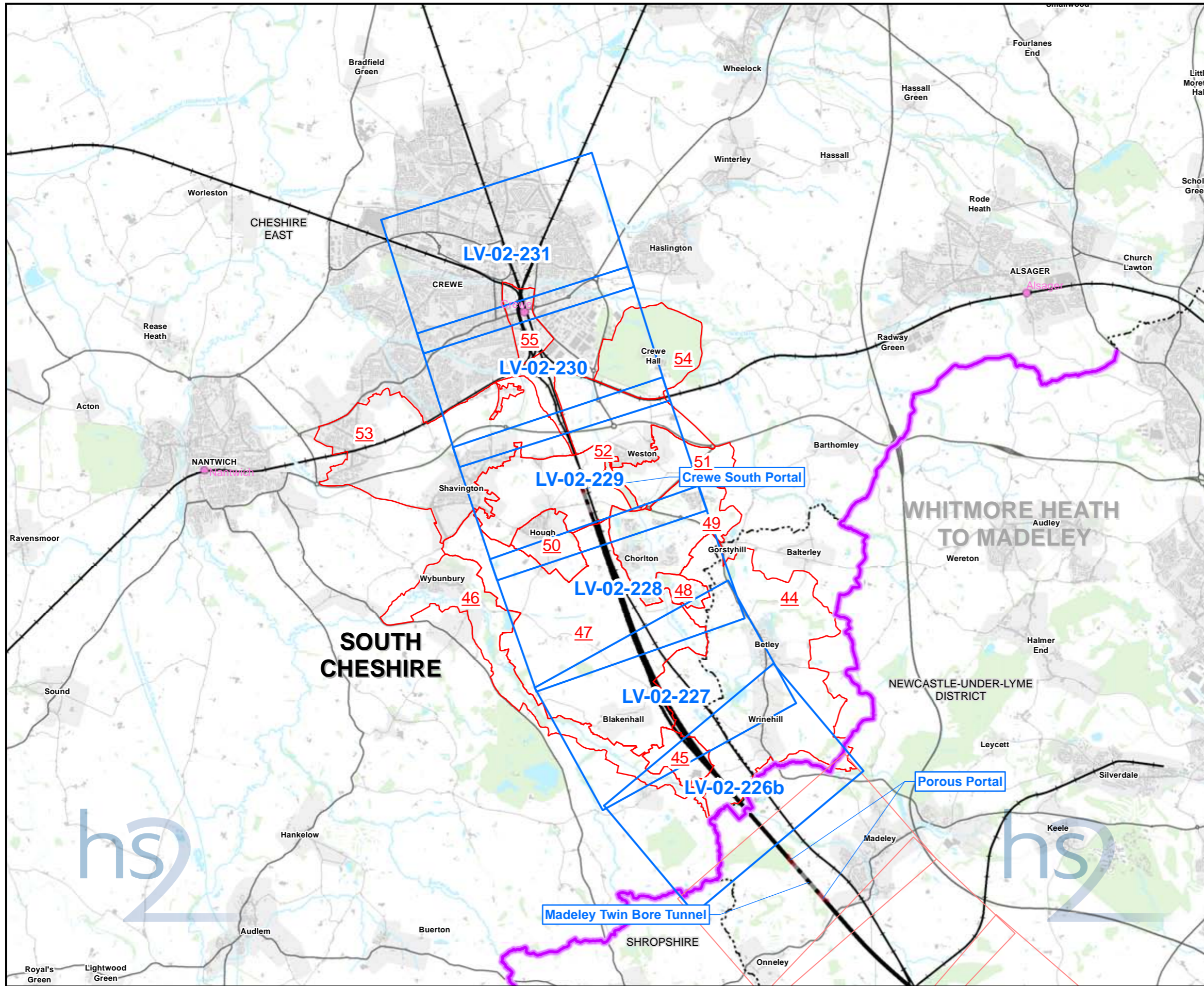
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High Speed Rail (West Midlands-Crewe)
Environmental Statement
LV-02 - Landscape Character Areas



Map Series Information:

Maps showing the landscape character areas that have been considered for assessment and illustrating significant residual effects during construction and operation.

LCA No.	LCA Name
44	Betley Ancient Clay Farmlands
45	The Grange Lower Farms and Woods
46	Checkley Brook Lower Farms and Woods
47	Blakenhall Lower Farms and Woods
48	Border Fisheries Lower Farms and Woods
49	Wychwood Park
50	Hough Common
51	Shavington/Crewe Outer Fringe Lower Farms and Woods
52	Basford Brook Lower Farms and Woods
53	Crewe Urban Fringe
54	Crewe Hall
55	Crewe Station Built Area

Main Map Legend

Map Number	LV-02-INDEX-CA5
Map Name	Index Map of: Landscape Character Areas
	Community Area 5: South Cheshire

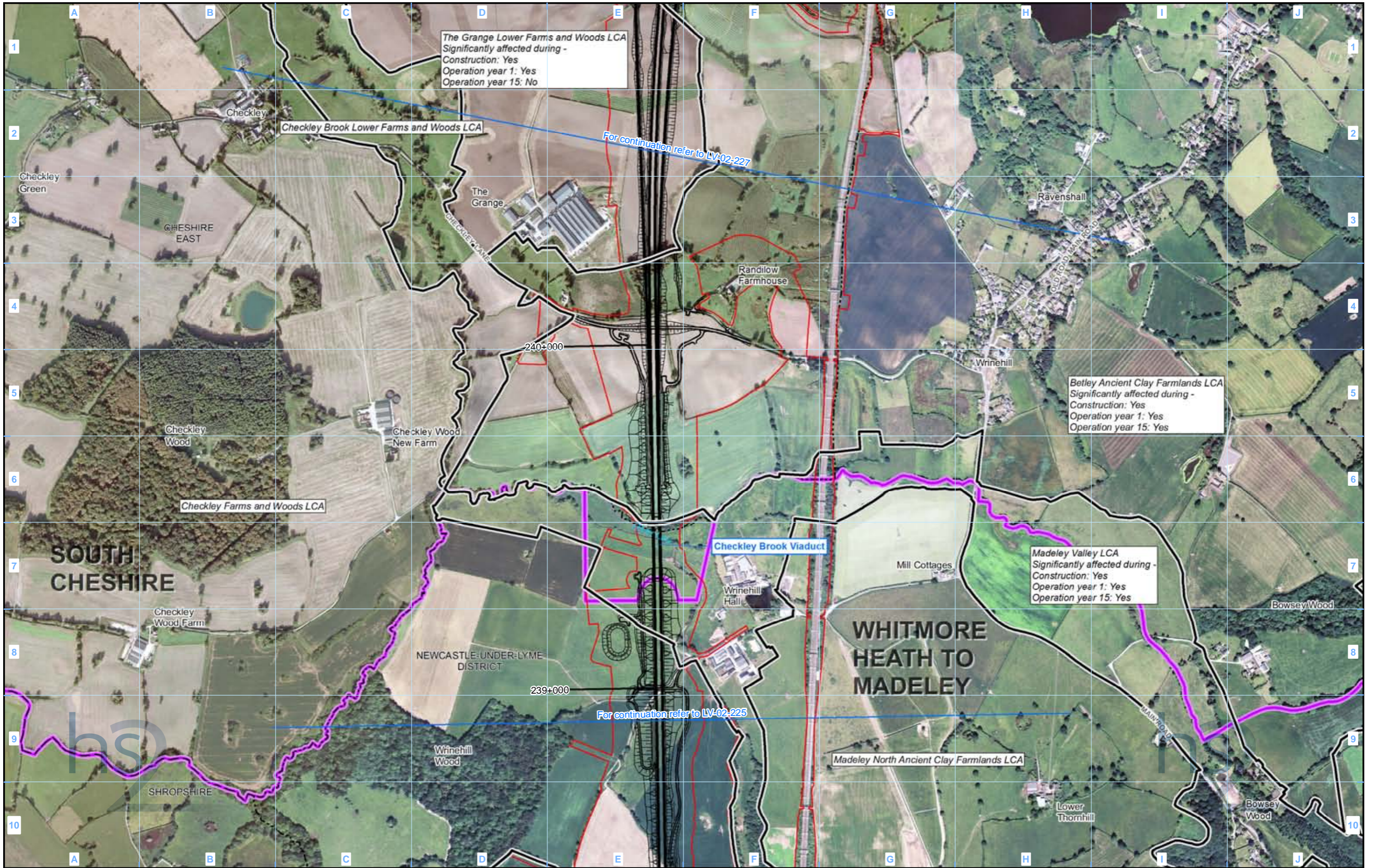
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Landscape character areas (LCA)
- Cannock Chase Area of Outstanding Natural Beauty (AONB)

- Engineering earthworks:**
- Embankment
 - Cutting
- Non engineering earthworks:**
- Embankment
 - Cutting

Map Number: LV-02-226b

Map Name: Landscape Character Areas

Community Area 5: South Cheshire

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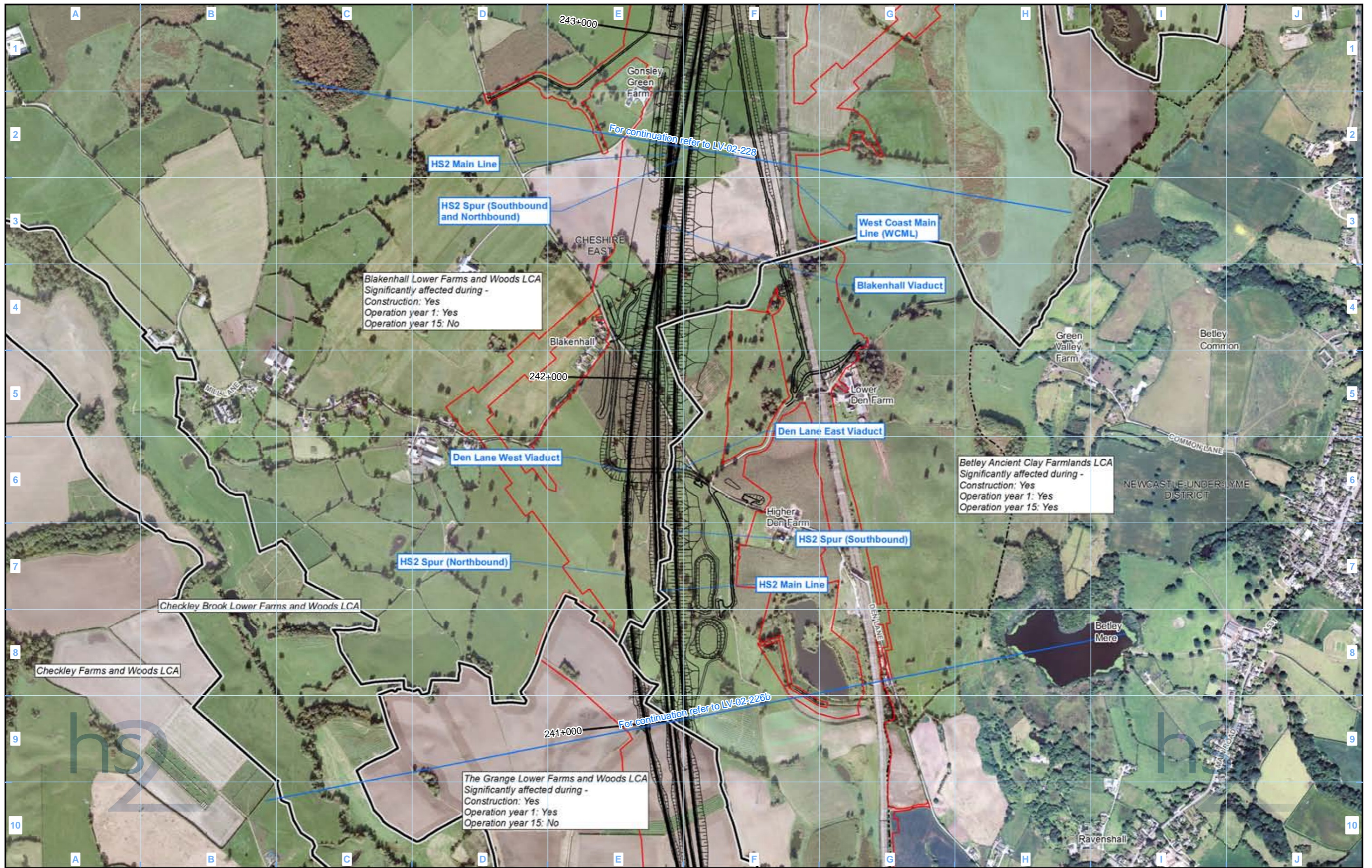
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Legend

- 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

- Landscape character areas (LCA)
- Cannock Chase Area of Outstanding Natural Beauty (AONB)

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-02-227

Map Name: Landscape Character Areas

Community Area 5: South Cheshire

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Metres

Date: 07/06/17



- 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

- Landscape character areas (LCA)
- Cannock Chase Area of Outstanding Natural Beauty (AONB)

- Engineering earthworks:**
- Embankment
 - Cutting
- Non engineering earthworks:**
- Embankment
 - Cutting

Map Number	LV-02-228
Map Name	Landscape Character Areas
Community Area 5: South Cheshire	

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Metres

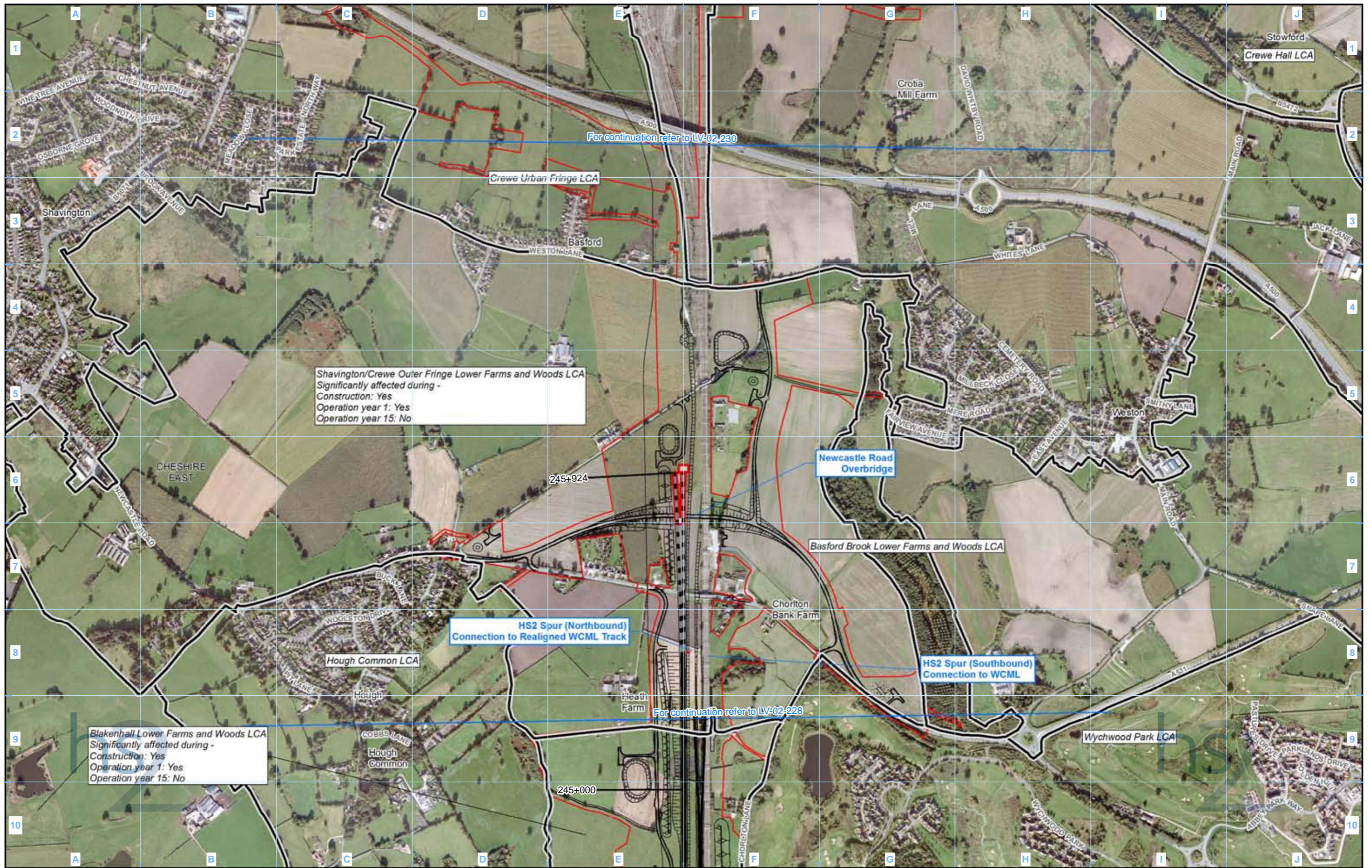
Date: 07/06/17

Blakenhall Lower Farms and Woods LCA
Significantly affected during -
Construction: Yes
Operation year 1: Yes
Operation year 15: No

Betley Ancient Clay Farmlands LCA
Significantly affected during -
Construction: Yes
Operation year 1: Yes
Operation year 15: Yes

For continuation refer to LV-02-229

For continuation refer to LV-02-227



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

	Landscape character areas (LCA)
	Cannock Chase Area of Outstanding Natural Beauty (AONB)
	Engineering earthworks: Embankment
	Cutting
	Non engineering earthworks: Embankment
	Cutting

Map Number	LV-02-229
Map Name	Landscape Character Areas
Community Area 5:	South Cheshire

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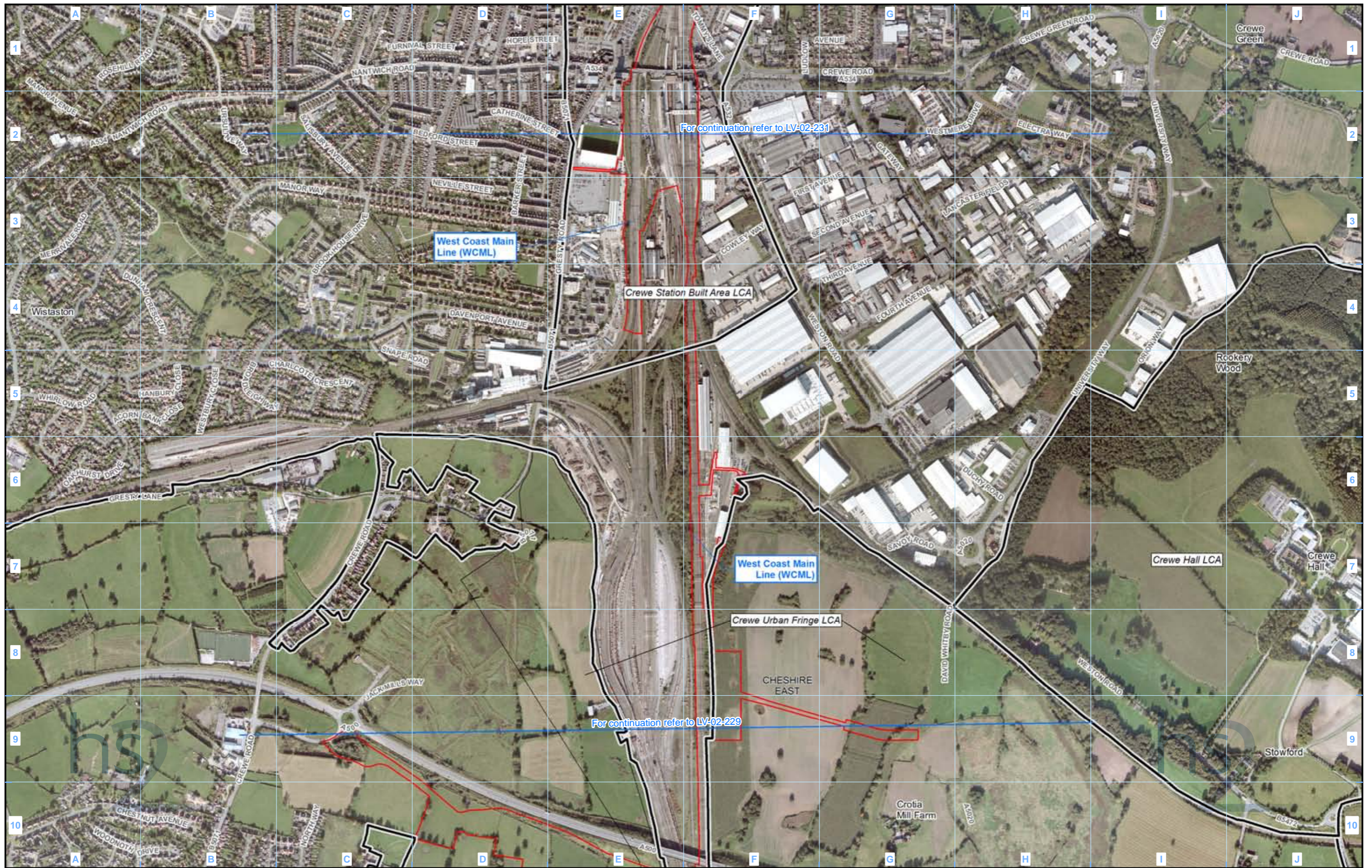
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Landscape character areas (LCA)
- Cannock Chase Area of Outstanding Natural Beauty (AONB)

- Engineering earthworks:**
- Embankment
 - Cutting
- Non engineering earthworks:**
- Embankment
 - Cutting

Map Number: LV-02-230

Map Name: Landscape Character Areas

Community Area 5: South Cheshire

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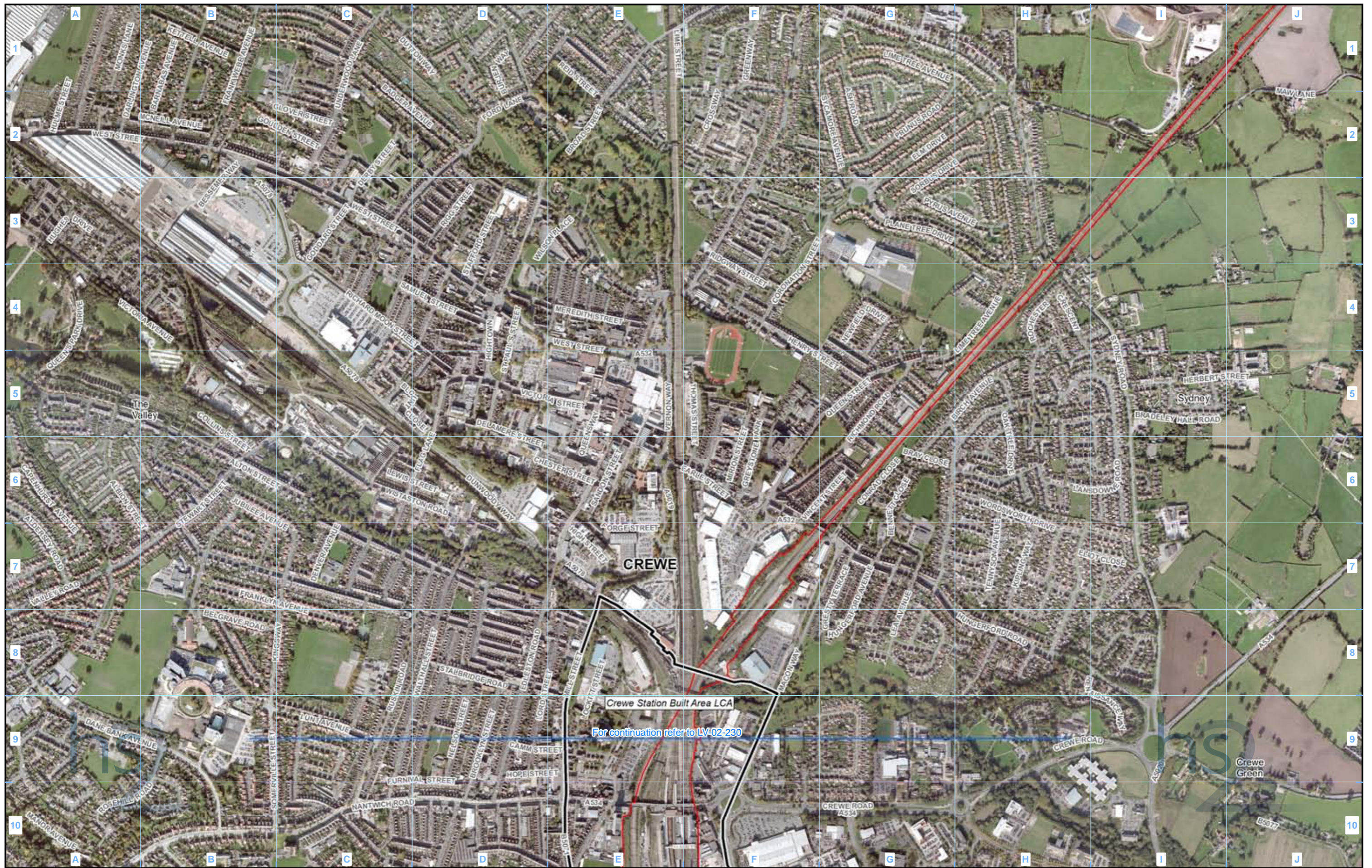
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Legend

- 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

- Landscape character areas (LCA)
- Cannock Chase Area of Outstanding Natural Beauty (AONB)

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-02-231

Map Name: Landscape Character Areas

Community Area 5: South Cheshire

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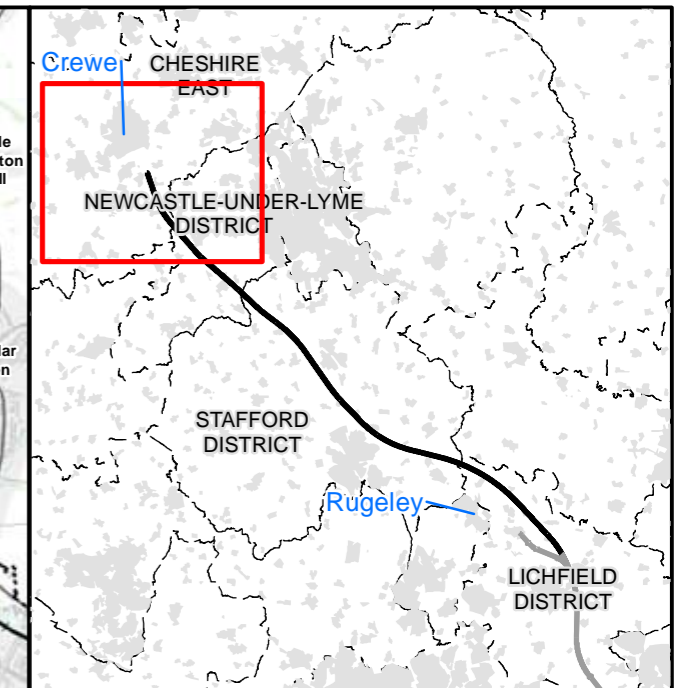
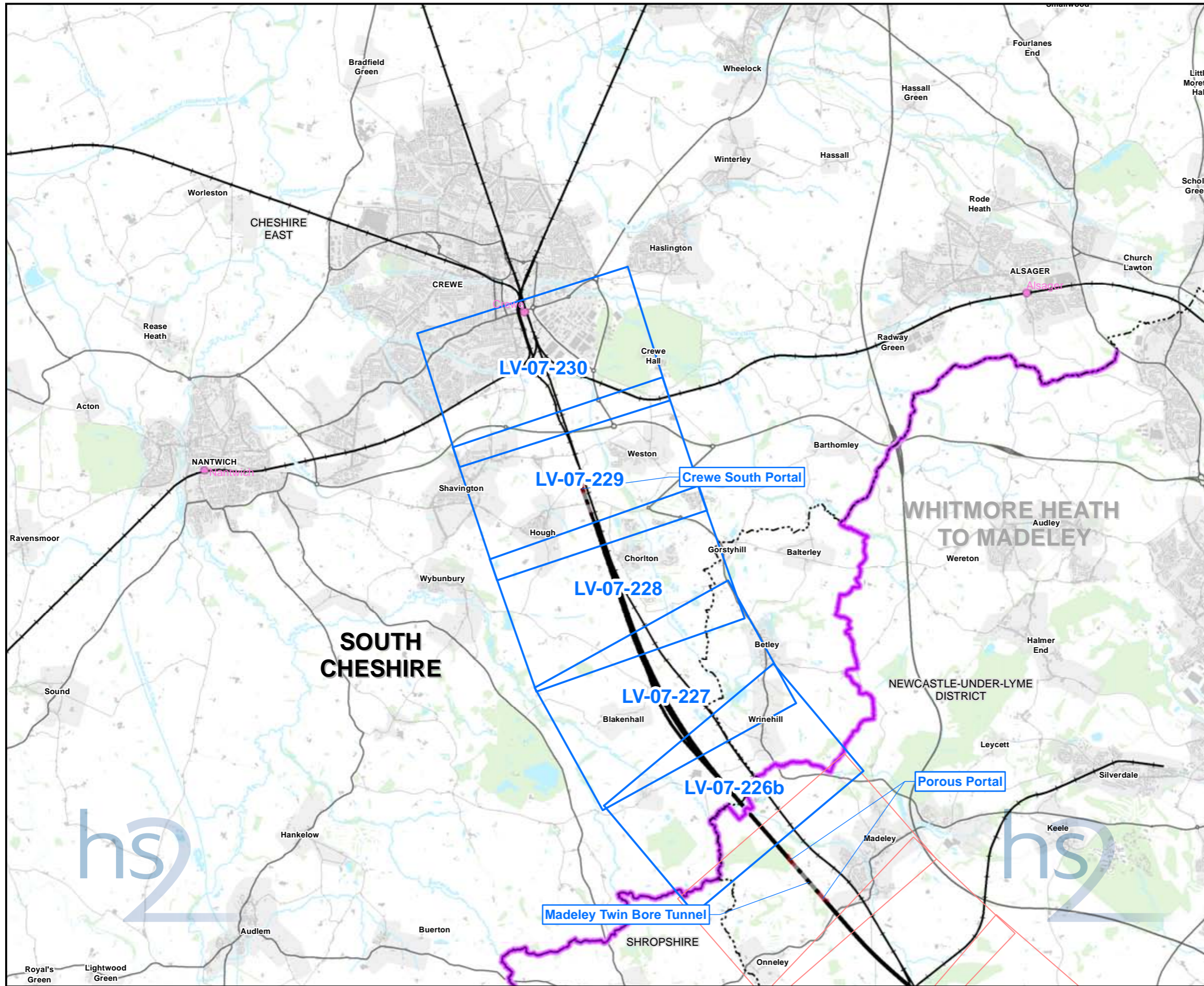
Date: 07/06/17

High Speed Rail (West Midlands-Crewe)

Environmental Statement

**LV-07 - Construction Phase Zone of
Theoretical Visibility (ZTV) and Viewpoints**

**LV-08 - Operational Phase Zone of
Theoretical Visibility (ZTV) and Viewpoints**



Map Series Information:

Maps showing the construction phase zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the Proposed Scheme has been undertaken. (All significant and non-significant photomontage locations are shown).

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: LV-07-INDEX-CA5

Map Name: Index Map of:
Construction Phase Zone of Theoretical
Visibility (ZTV) and Viewpoints

Community Area 5:
South Cheshire

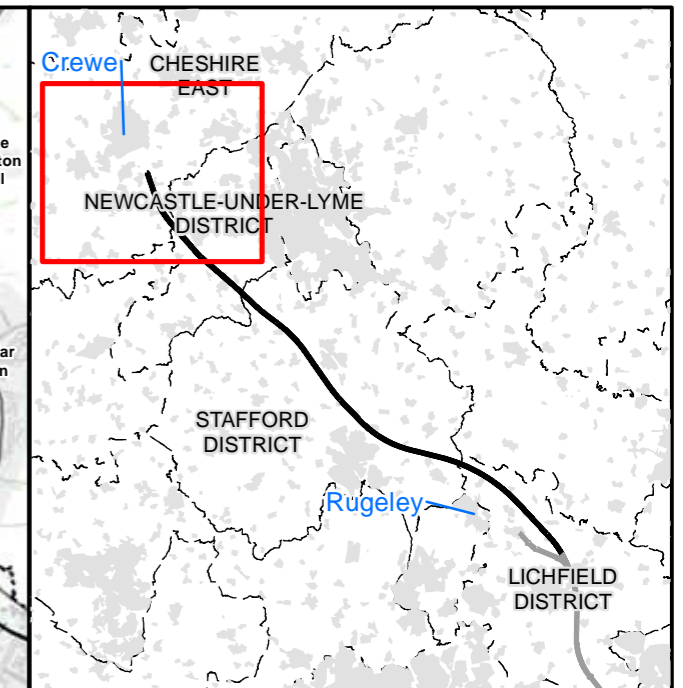
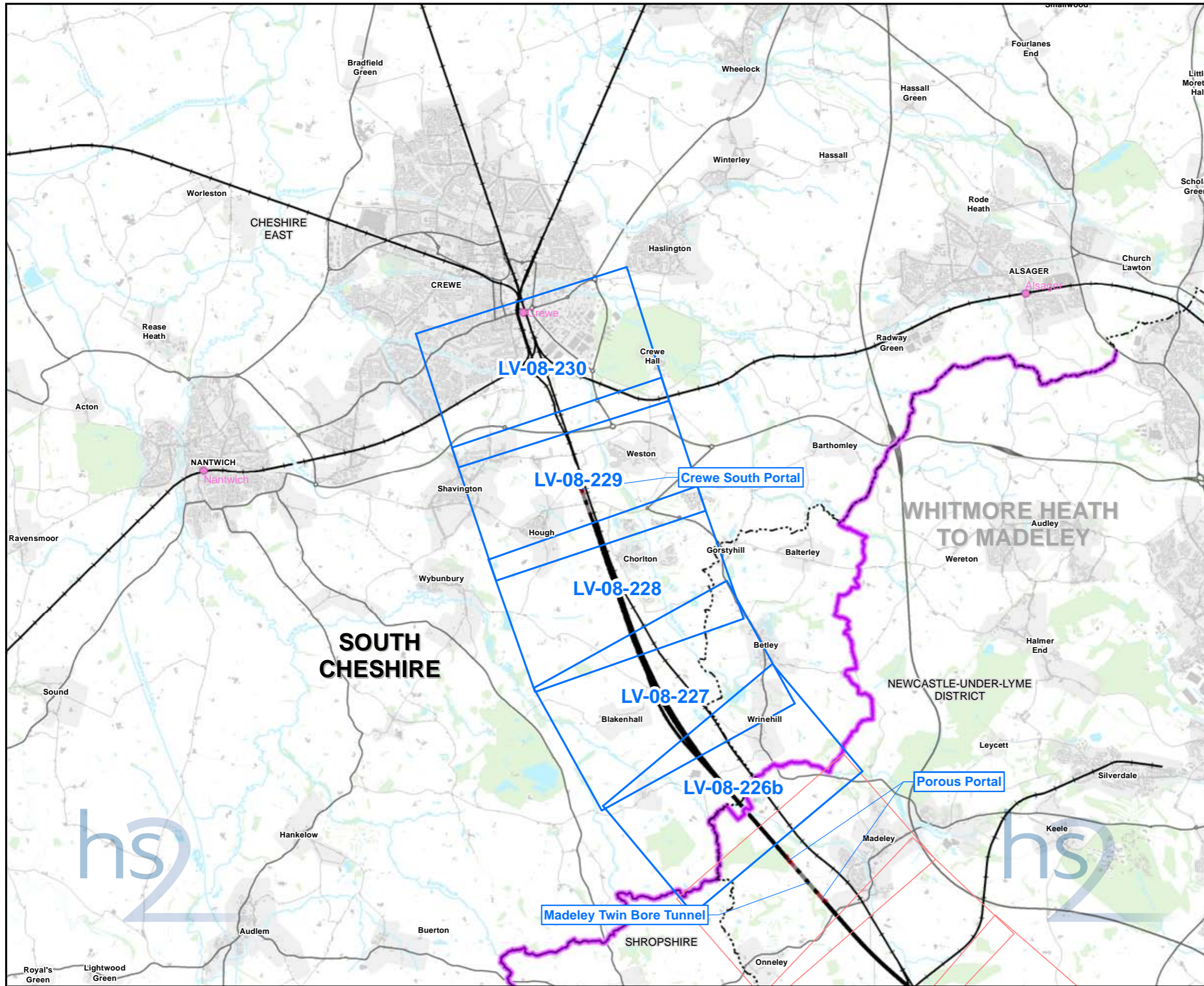
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Map Series Information:

Maps showing the operational phase year one and year fifteen zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the Proposed Scheme has been undertaken. (All significant and non-significant photomontage locations are shown).

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

Map Number	LV-08-INDEX-CA5
Map Name	Index Map of: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints
	Community Area 5: South Cheshire

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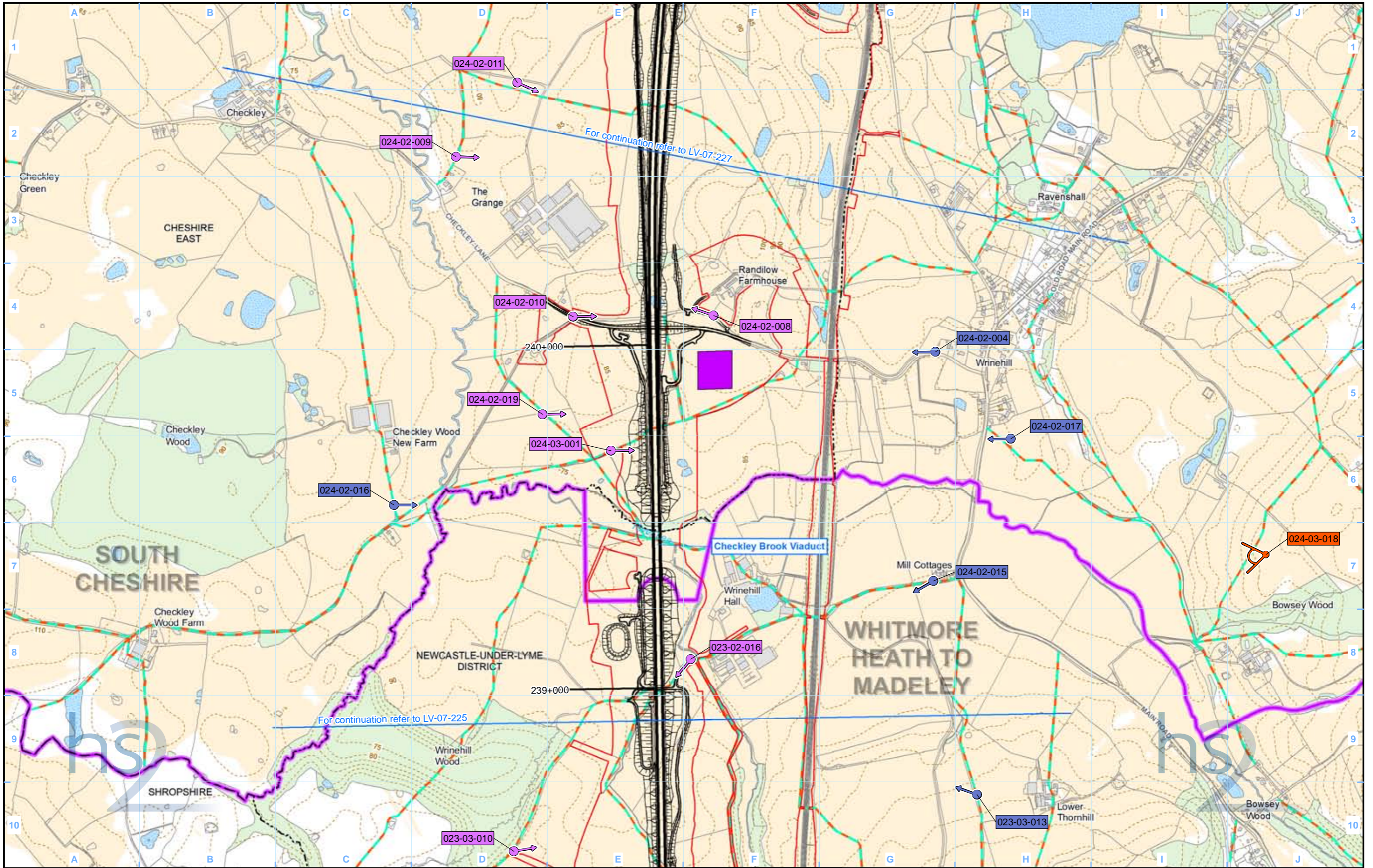
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Date: 07/06/17



Legend	
	District/Borough boundary
	Public Rights of Way (PRoW)
	5m contours
	Water body
	Existing woodland and tree belts
	Construction compounds
	Non significantly affected viewpoint number
	Significantly affected viewpoint number
	Photomontage viewpoint number
	Engineering earthworks:
	Embankment
	Cutting
	Non engineering earthworks:
	Embankment
	Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-07-226b
Map Name	Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints
Community Area	Community Area 5: South Cheshire

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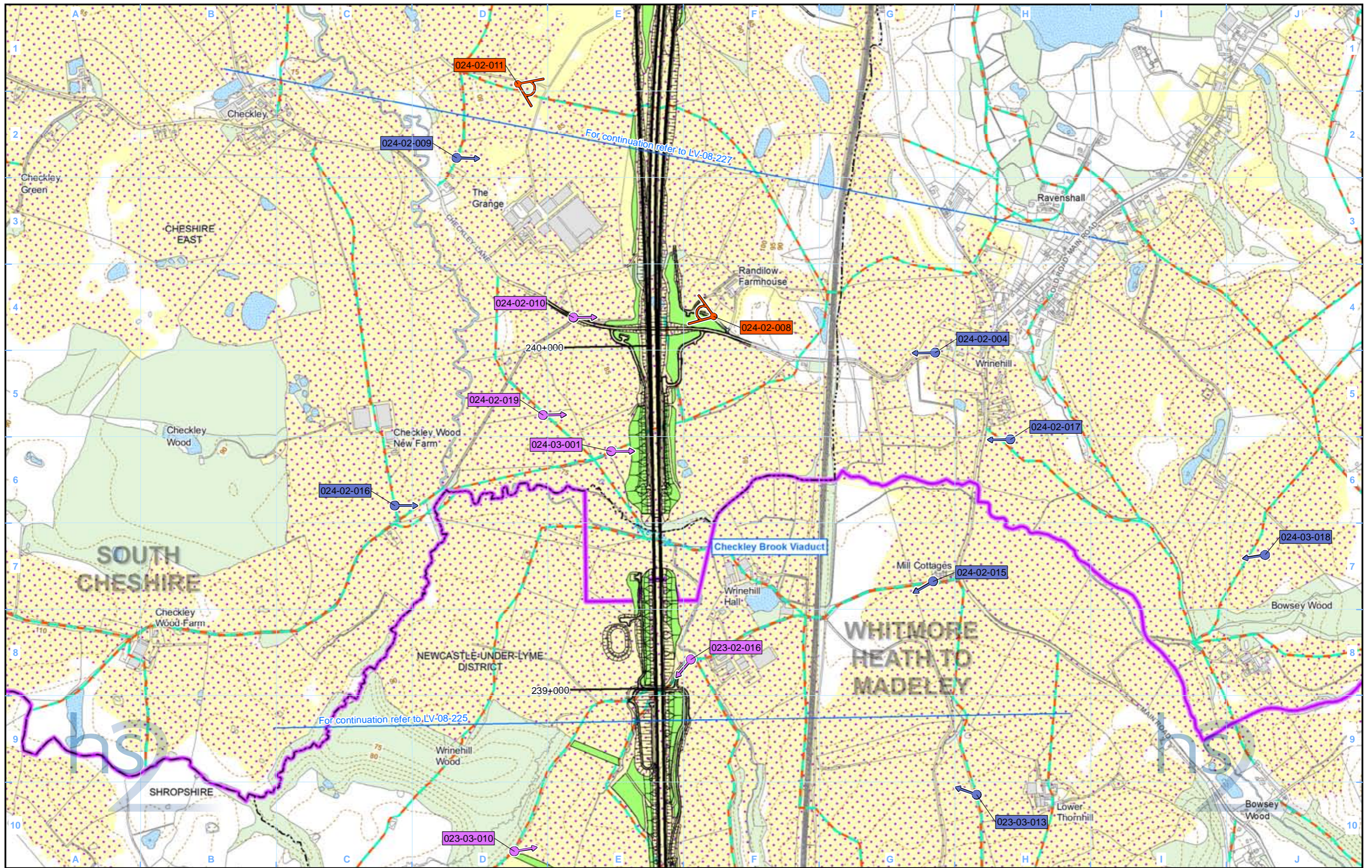
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Doc Number: C861-ARP-EV-MAP-000-107326-P03

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Metres

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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Community area boundary
	County boundary
	District/Borough boundary
	Public Rights of Way (PRoW)
	5m contours
	Water body
	Existing woodland and tree belts
	Proposed tree planting
	Cannock Chase Area of Outstanding Natural Beauty (AONB)
	ZTV operation year 1
	ZTV operation year 15
	001-1-001 Non significantly affected viewpoint number
	001-1-001 Significantly affected viewpoint number
	001-1-001 Photomontage viewpoint number
	Non significantly affected viewpoint
	Significantly affected viewpoint
	Photomontage location
	Engineering earthworks: Embankment
	Engineering earthworks: Cutting
	Non engineering earthworks: Embankment
	Non engineering earthworks: Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-08-226b
Map Name	Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints
Community Area	Community Area 5: South Cheshire

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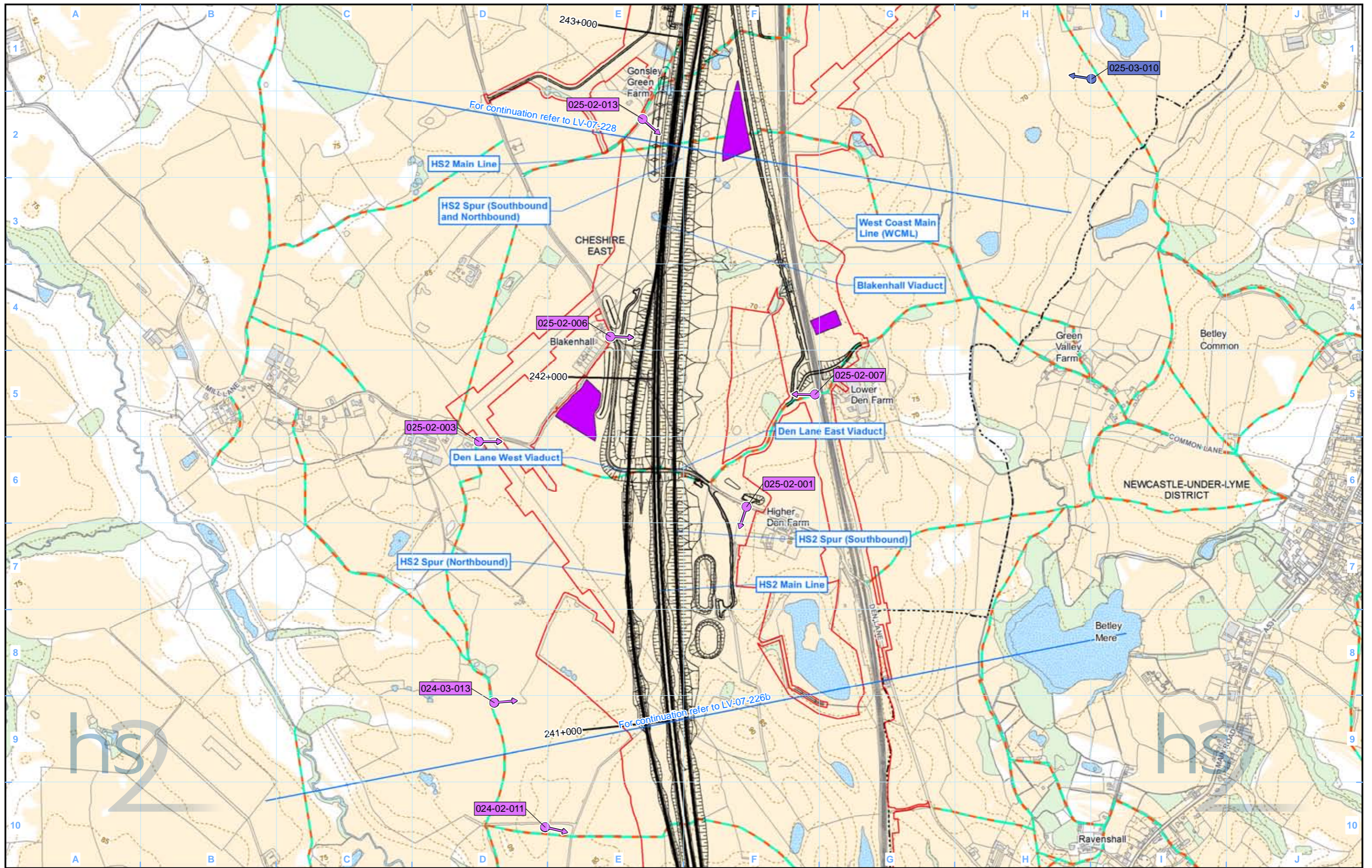
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Legend

Route in tunnel	District/Borough boundary	ZTV construction	Non significantly affected viewpoint	Engineering earthworks: Embankment
Route on surface	Public Rights of Way (PRoW)	5m contours	Significantly affected viewpoint	Cutting
Depot, station, headhouse or portal building	Water body	Existing woodland and tree belts	Photomontage location	Non engineering earthworks: Embankment
Land potentially required during construction	Construction compounds	Cannock Chase Area of Outstanding Natural Beauty (AONB)	001-1-001 Non significantly affected viewpoint number	Cutting
Community area boundary	001-1-001 Significantly affected viewpoint number		001-1-001 Photomontage viewpoint number	
County boundary				

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-227

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints

Community Area 5: South Cheshire

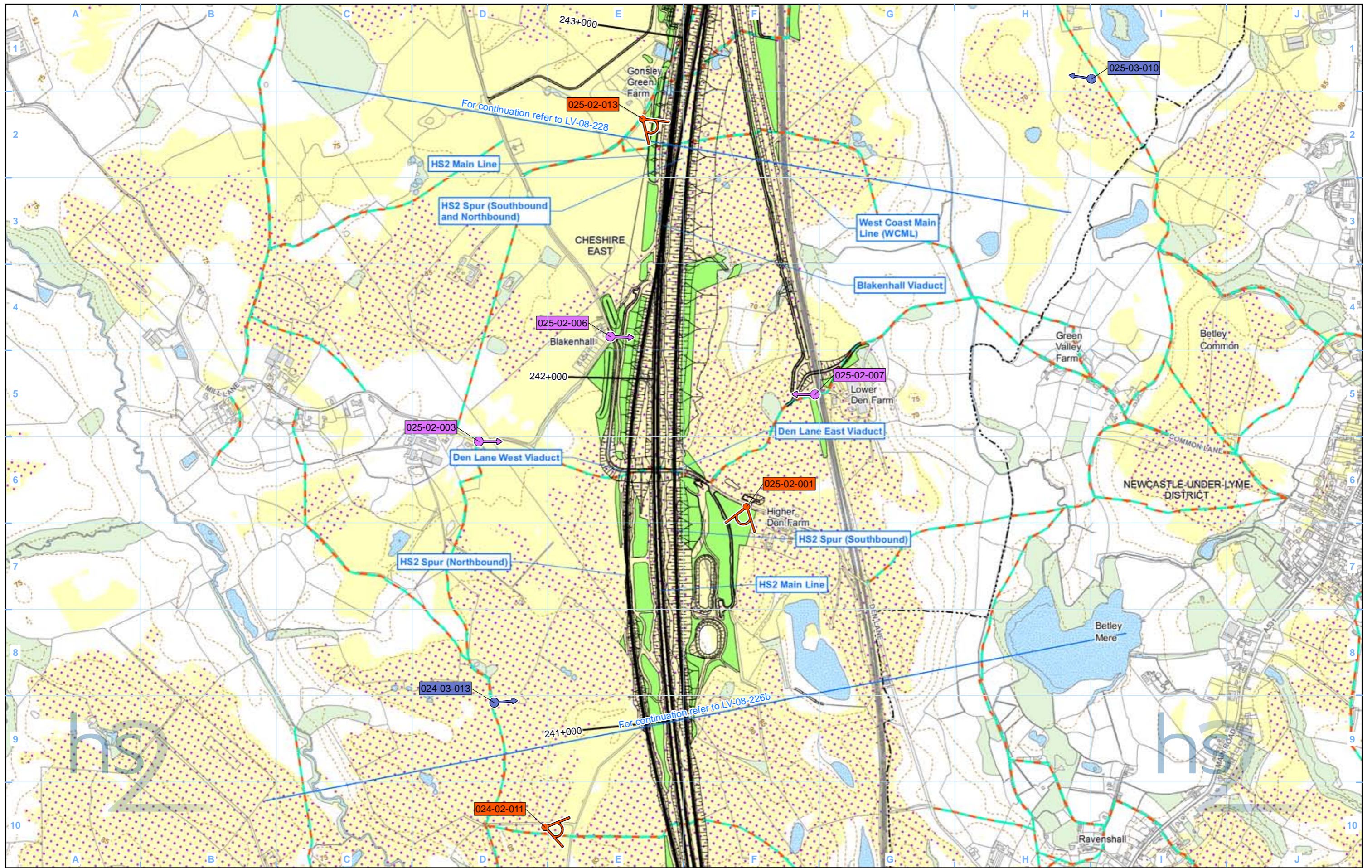
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Doc Number: C861-ARP-EV-MAP-000-107227-P03

Date: 07/06/17



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Community area boundary
	County boundary
	District/Borough boundary
	Public Rights of Way (PRoW)
	5m contours
	Water body
	Existing woodland and tree belts
	Proposed tree planting
	Cannock Chase Area of Outstanding Natural Beauty (AONB)
	ZTV operation year 1
	ZTV operation year 15
	001-1-001 Non significantly affected viewpoint number
	001-1-001 Significantly affected viewpoint number
	001-1-001 Photomontage viewpoint number
	Photomontage location
	Non significantly affected viewpoint
	Significantly affected viewpoint
	Engineering earthworks: Embankment
	Engineering earthworks: Cutting
	Non engineering earthworks: Embankment
	Non engineering earthworks: Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-08-227
Map Name	Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints
Community Area	Community Area 5: South Cheshire

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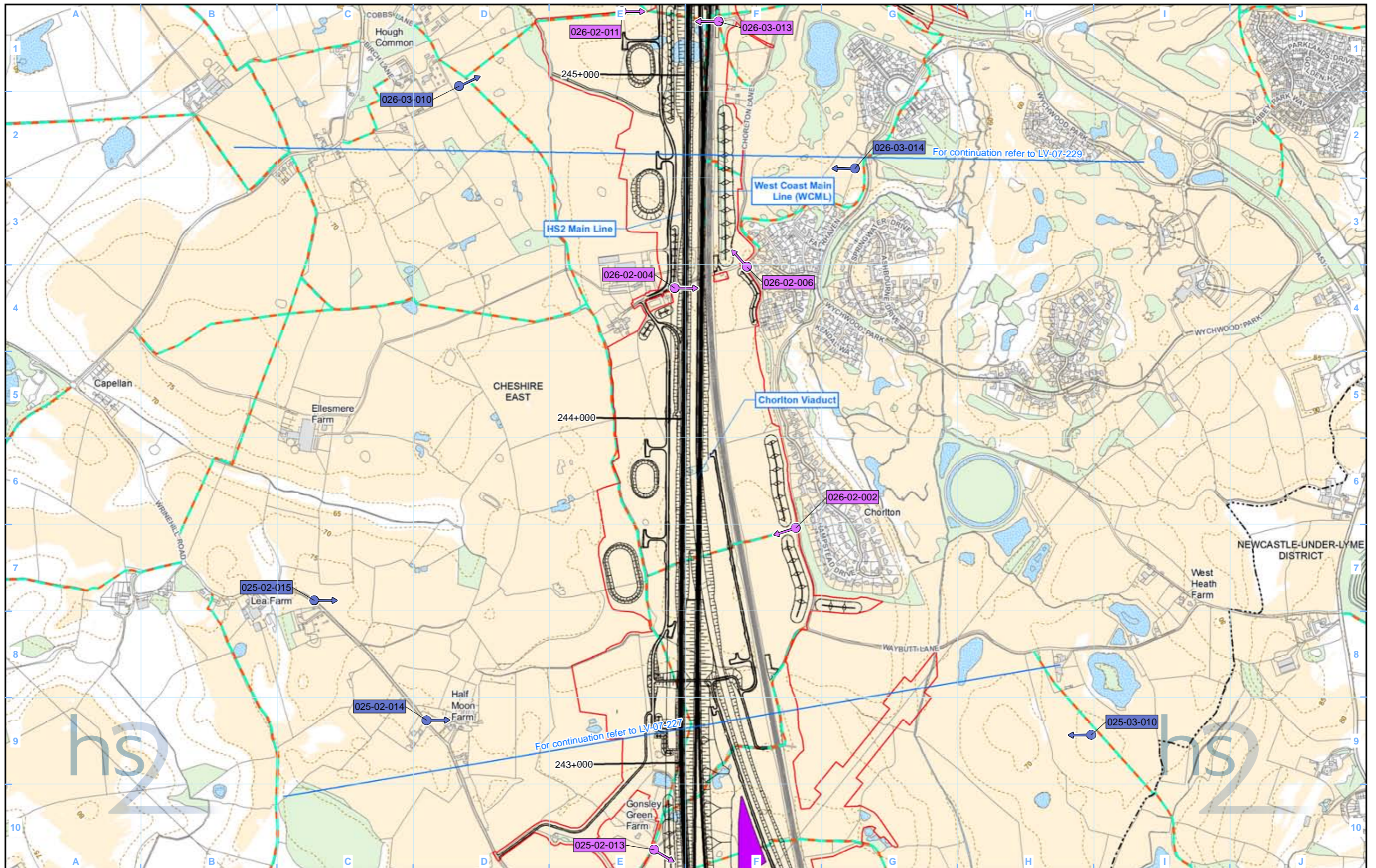
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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Public Rights of Way (PRoW)
	5m contours
	Water body
	Existing woodland and tree belts
	Construction compounds
	Cannock Chase Area of Outstanding Natural Beauty (AONB)
	ZTV construction
	001-1-001 Non significantly affected viewpoint number
	001-1-001 Significantly affected viewpoint number
	001-1-001 Photomontage viewpoint number
	Non significantly affected viewpoint
	Significantly affected viewpoint
	Photomontage location
	Engineering earthworks: Embankment
	Engineering earthworks: Cutting
	Non engineering earthworks: Embankment
	Non engineering earthworks: Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-07-228
Map Name	Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints
Community Area	Community Area 5: South Cheshire

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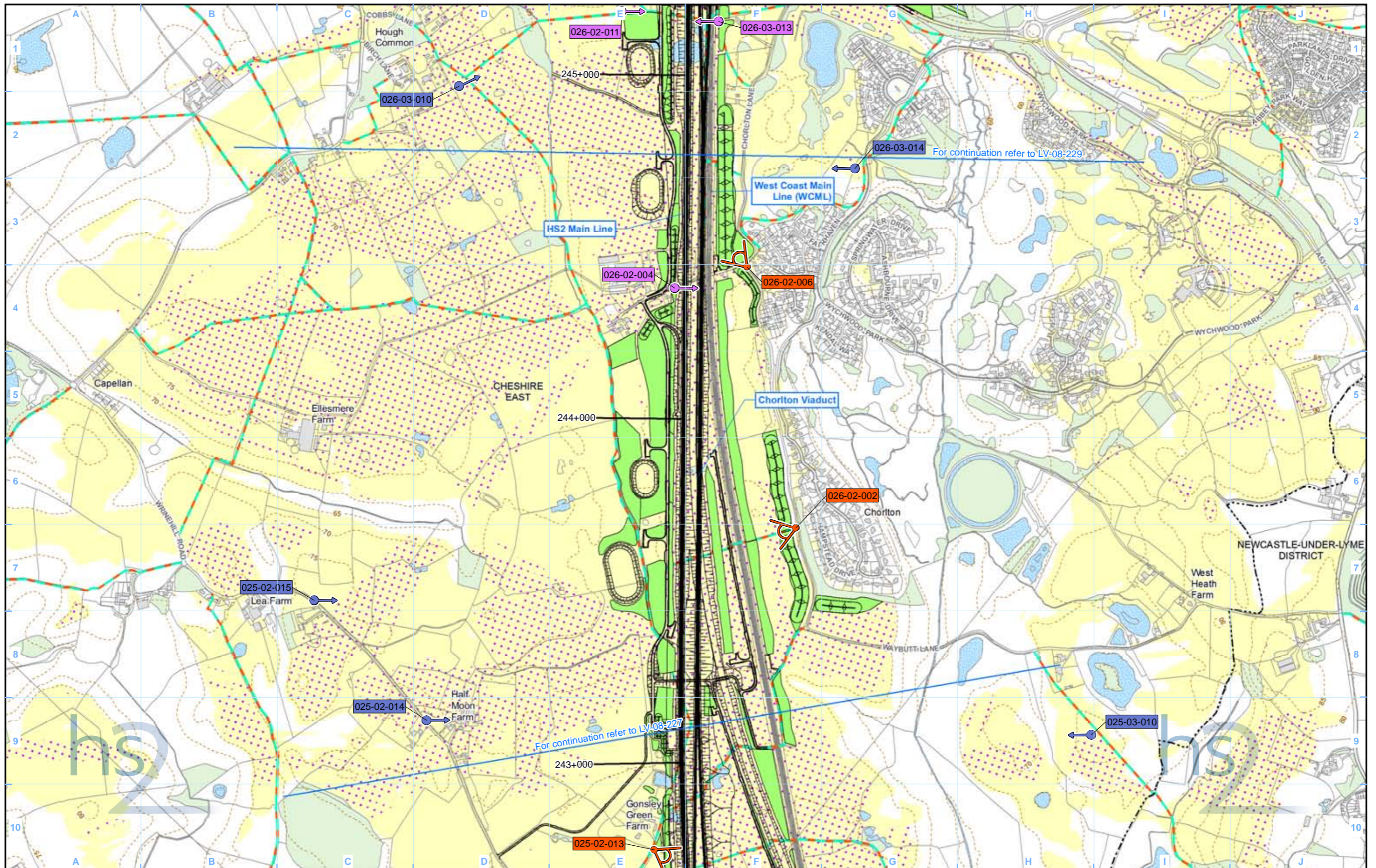
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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Community area boundary
	County boundary
	District/Borough boundary
	Public Rights of Way (PRoW)
	5m contours
	Water body
	Existing woodland and tree belts
	Proposed tree planting
	Cannock Chase Area of Outstanding Natural Beauty (AONB)
	ZTV operation year 1
	ZTV operation year 15
	001-1-001 Non significantly affected viewpoint number
	001-1-001 Significantly affected viewpoint number
	001-1-001 Photomontage viewpoint number
	Photomontage location
	Non significantly affected viewpoint
	Significantly affected viewpoint
	Engineering earthworks: Embankment
	Engineering earthworks: Cutting
	Non engineering earthworks: Embankment
	Non engineering earthworks: Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-08-228
Map Name	Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints
Community Area	Community Area 5: South Cheshire

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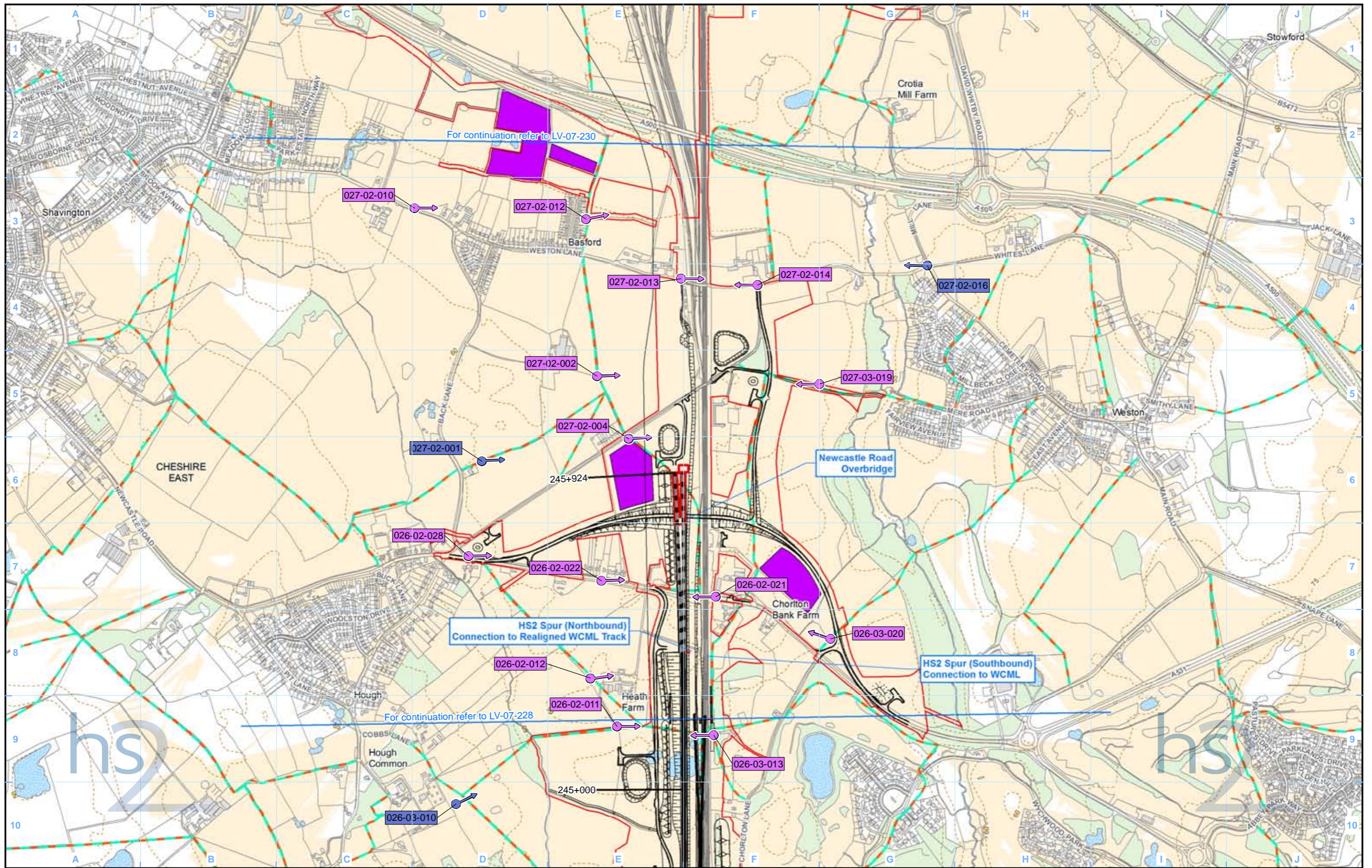
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Legend		
	District/Borough boundary	
	Public Rights of Way (PRoW)	
	5m contours	
	Water body	
	Existing woodland and tree belts	
	Construction compounds	
	Cannock Chase Area of Outstanding Natural Beauty (AONB)	
		Engineering earthworks:
		Non engineering earthworks:

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-07-229
Map Name	Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints
Community Area 5: South Cheshire	

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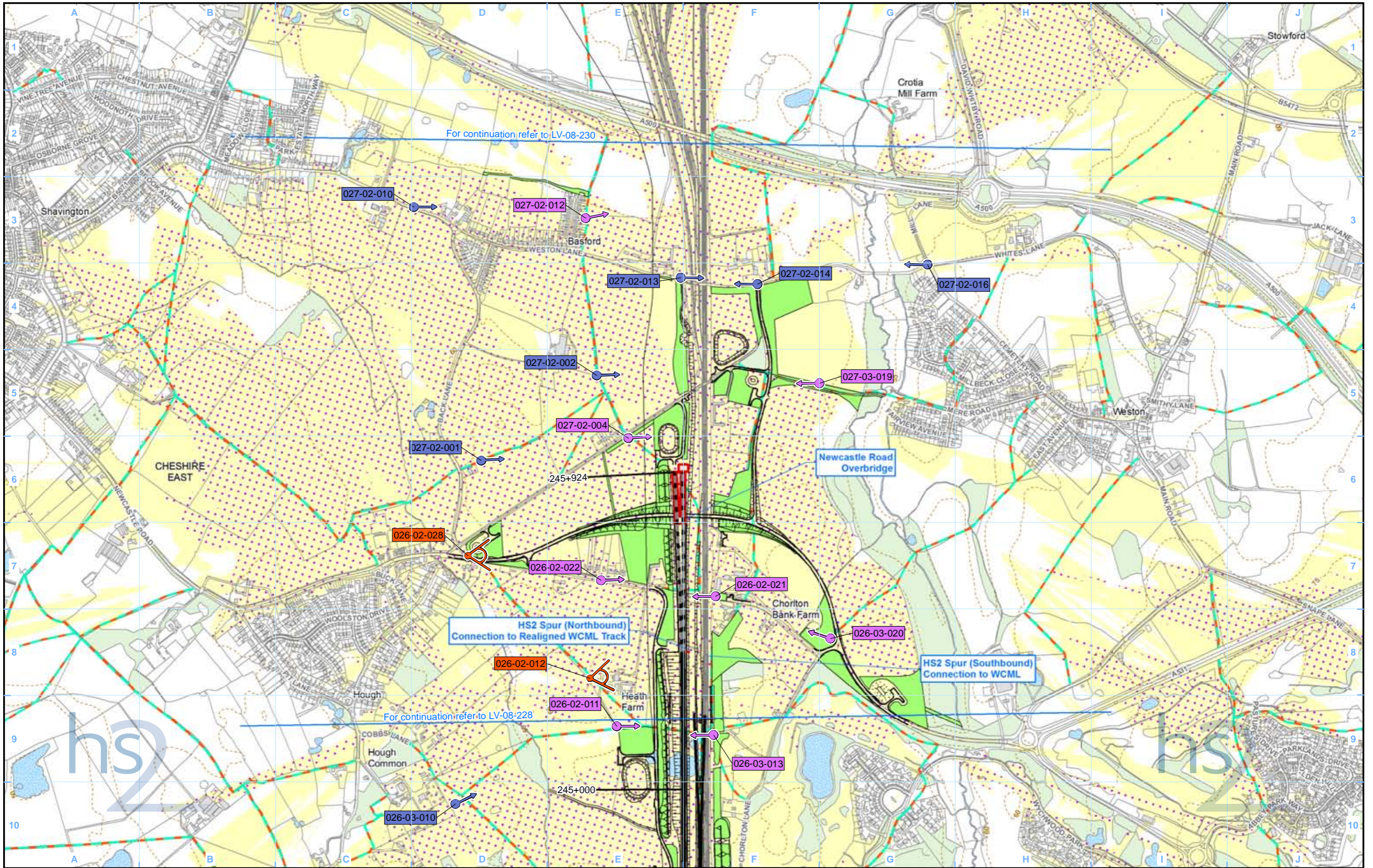
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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Community area boundary
	County boundary
	District/Borough boundary
	Public Rights of Way (PRoW)
	5m contours
	Water body
	Existing woodland and tree belts
	Proposed tree planting
	Cannock Chase
	Area of Outstanding Natural Beauty (AONB)
	ZTV operation year 1
	ZTV operation year 15
	001-1-001 Non significantly affected viewpoint number
	001-1-001 Significantly affected viewpoint number
	001-1-001 Photomontage viewpoint number
	Photomontage location
	Non significantly affected viewpoint
	Significantly affected viewpoint
	Engineering earthworks: Embankment
	Engineering earthworks: Cutting
	Non engineering earthworks: Embankment
	Non engineering earthworks: Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-08-229
Map Name	Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints
Community Area 5: South Cheshire	

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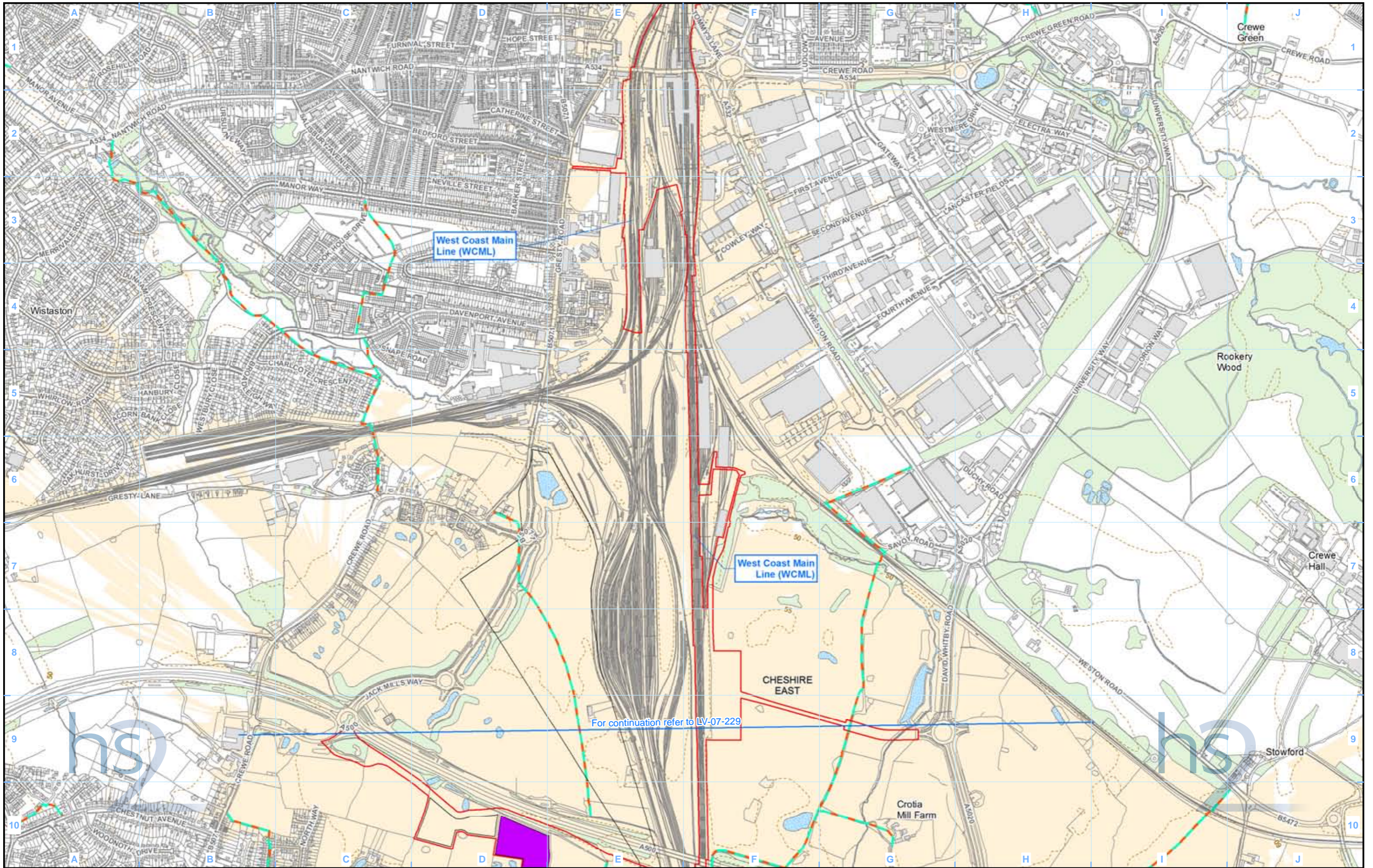
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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Public Rights of Way (PRoW)
	5m contours
	Water body
	Existing woodland and tree belts
	Construction compounds
	Cannock Chase Area of Outstanding Natural Beauty (AONB)
	ZTV construction
	001-1-001 Non significantly affected viewpoint number
	001-1-001 Significantly affected viewpoint number
	001-1-001 Photomontage viewpoint number
	Non significantly affected viewpoint
	Significantly affected viewpoint
	Photomontage location
	Engineering earthworks: Embankment
	Engineering earthworks: Cutting
	Non engineering earthworks: Embankment
	Non engineering earthworks: Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-07-230
Map Name	Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints
Community Area	Community Area 5: South Cheshire

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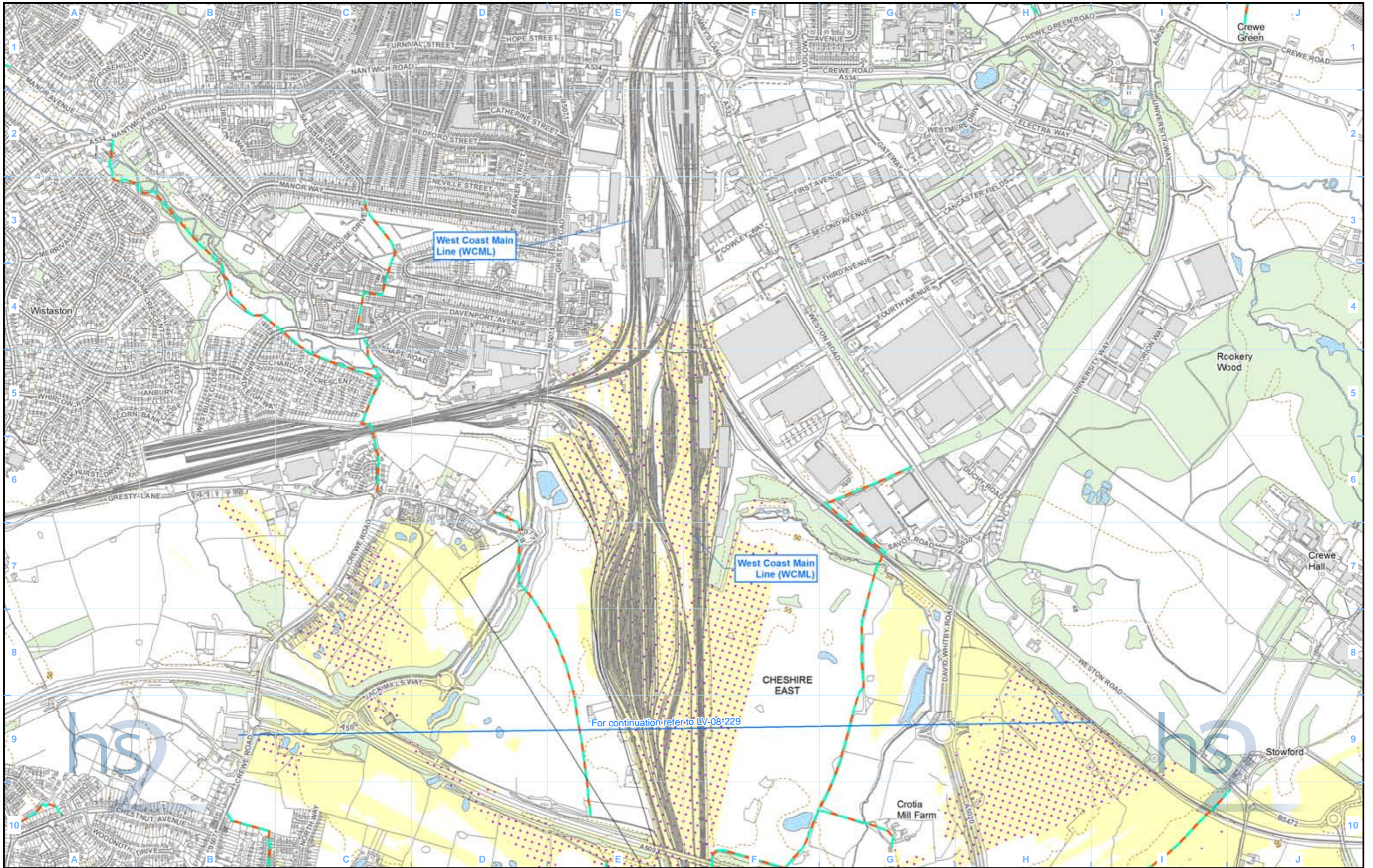
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Date: 07/06/17



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Community area boundary
	County boundary
	District/Borough boundary
	Public Rights of Way (PRoW)
	5m contours
	Water body
	Existing woodland and tree belts
	Proposed tree planting
	Cannock Chase Area of Outstanding Natural Beauty (AONB)
	ZTV operation year 1
	ZTV operation year 15
	Non significantly affected viewpoint number
	Significantly affected viewpoint number
	Photomontage viewpoint number
	Photomontage location
	Non significantly affected viewpoint
	Significantly affected viewpoint
	Engineering earthworks: Embankment
	Engineering earthworks: Cutting
	Non engineering earthworks: Embankment
	Non engineering earthworks: Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-08-230
Map Name	Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints
Community Area 5: South Cheshire	

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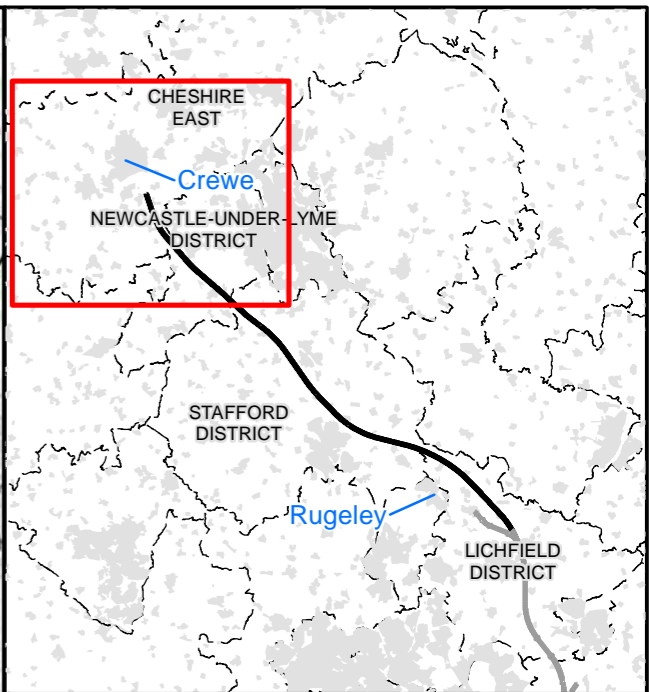
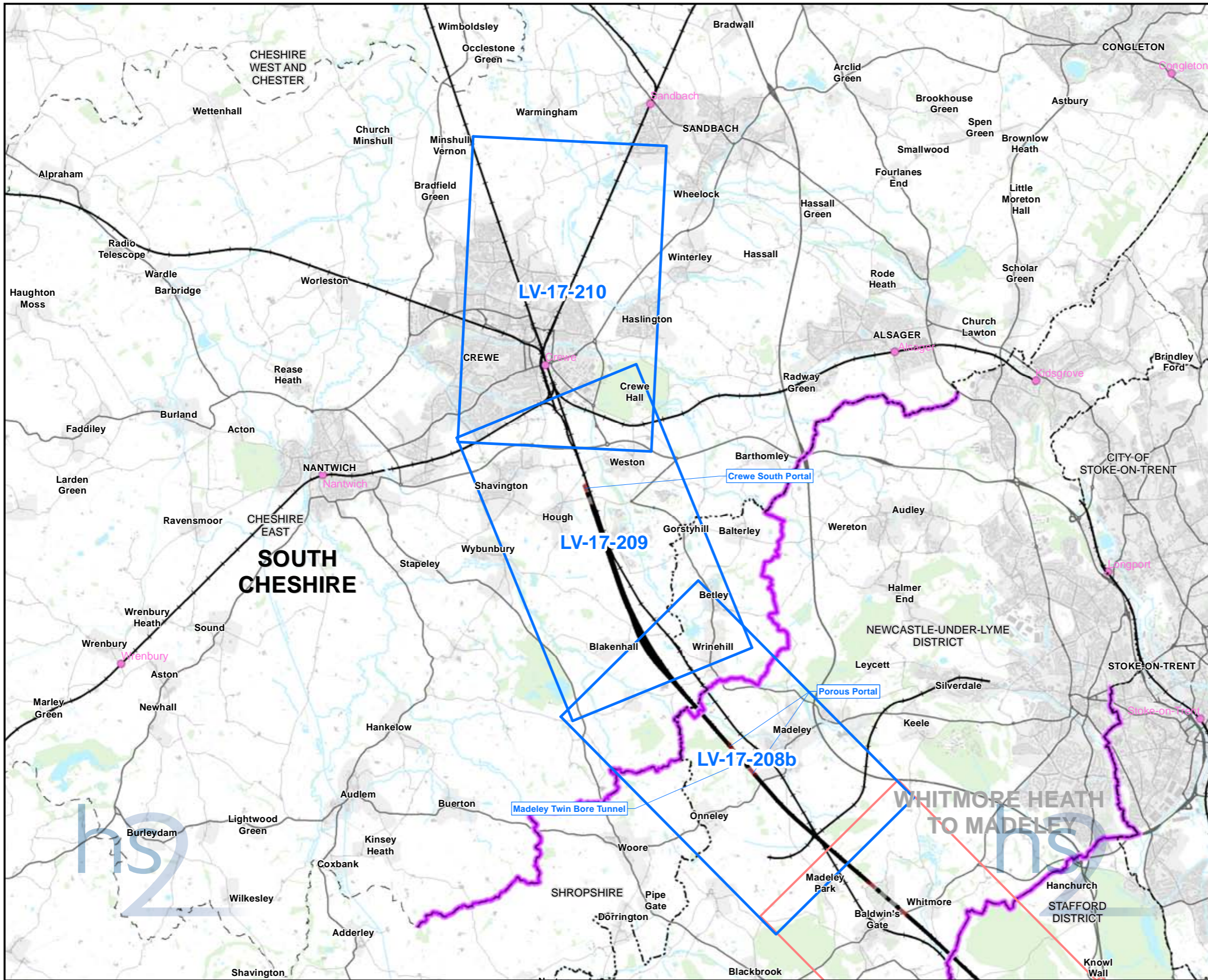
Metres

Date: 07/06/17

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High Speed Rail (West Midlands-Crewe)
Environmental Statement
LV-17 - Routewide Landscape Context



Map Series Information:
 Maps showing the proposed scheme and planting in context with the wider landscape.

- 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: LV-17-INDEX-CA5
 Map Name: Index Map of:
 Routewide Landscape Context
 Community Area 5:
 South Cheshire

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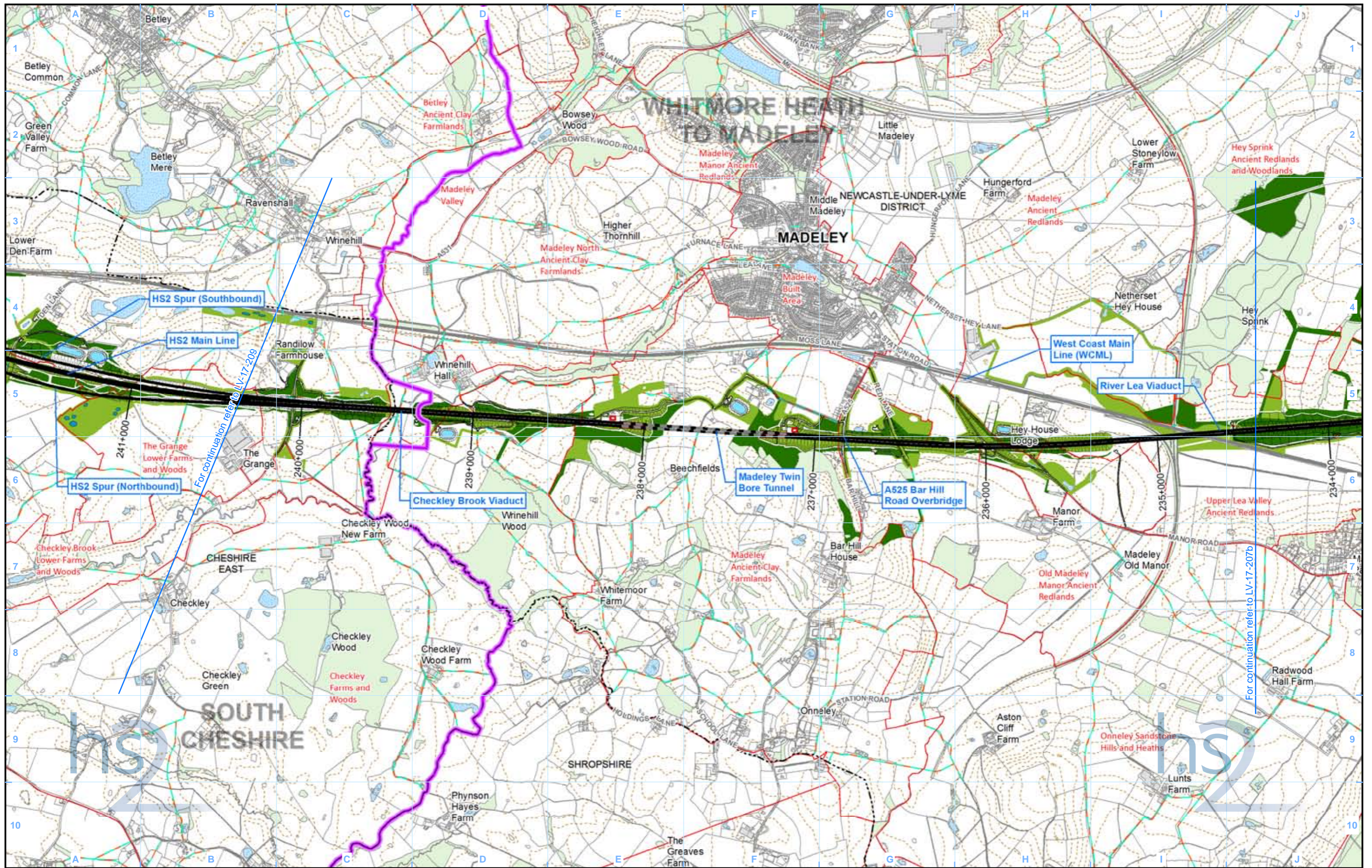
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Legend

Map Number	LV-17-208b
Map Name	Routewide Landscape Context
Community Area 5:	South Cheshire

Map Number LV-17-208b

Map Name Routewide Landscape Context

Community Area 5: South Cheshire

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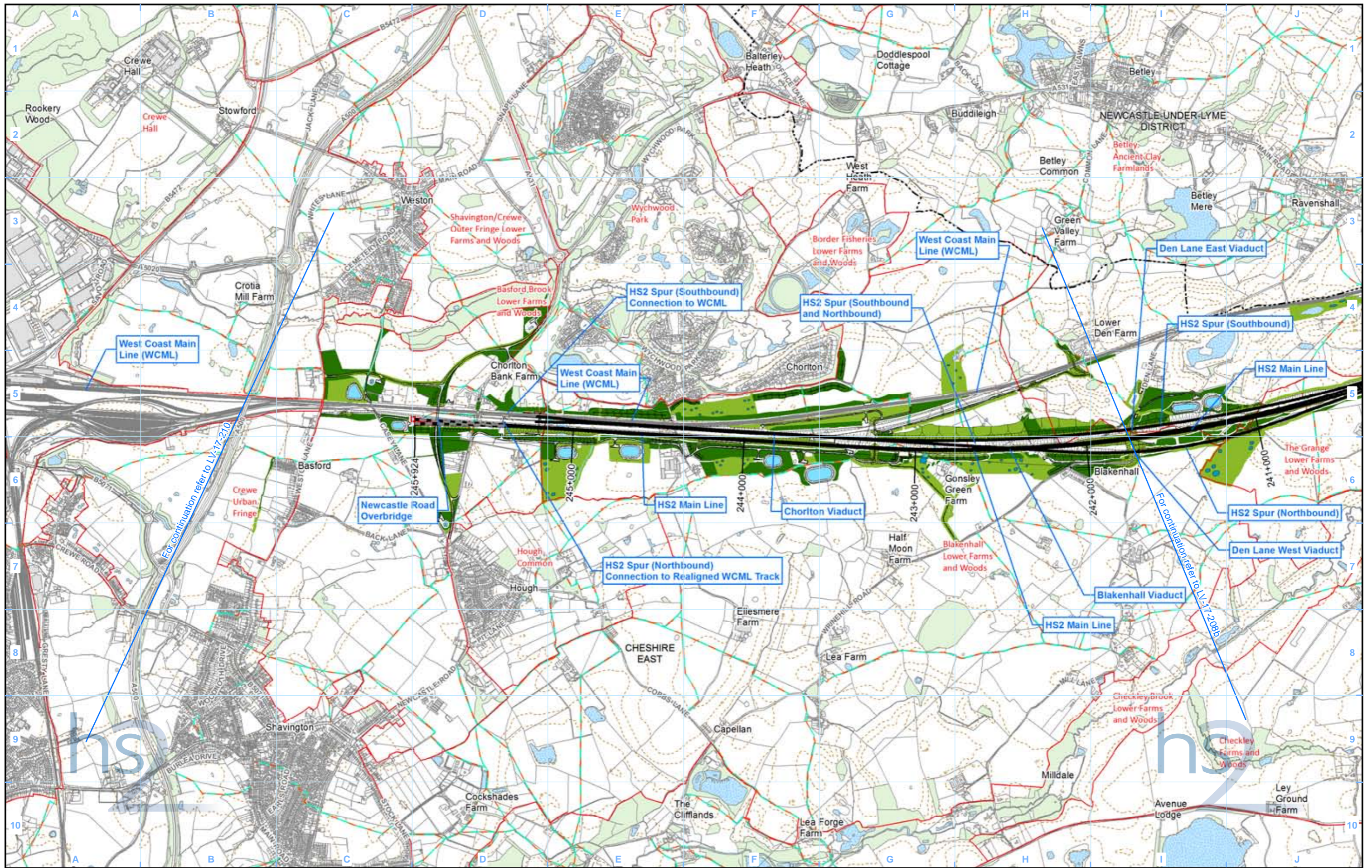
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Cannoak Chase Area of Outstanding Natural Beauty (AONB)
 - Landscape Character Area boundary
 - Public Rights of Way (PRoW)
 - 5m contours
 - Water body
 - Existing woodland and tree belts
 - Tree planting
 - Other planting and hedgerows
 - Ecological mitigation pond
 - Balancing pond

Map Number: LV-17-209

Map Name: **Routewide Landscape Context**

Community Area 5: South Cheshire

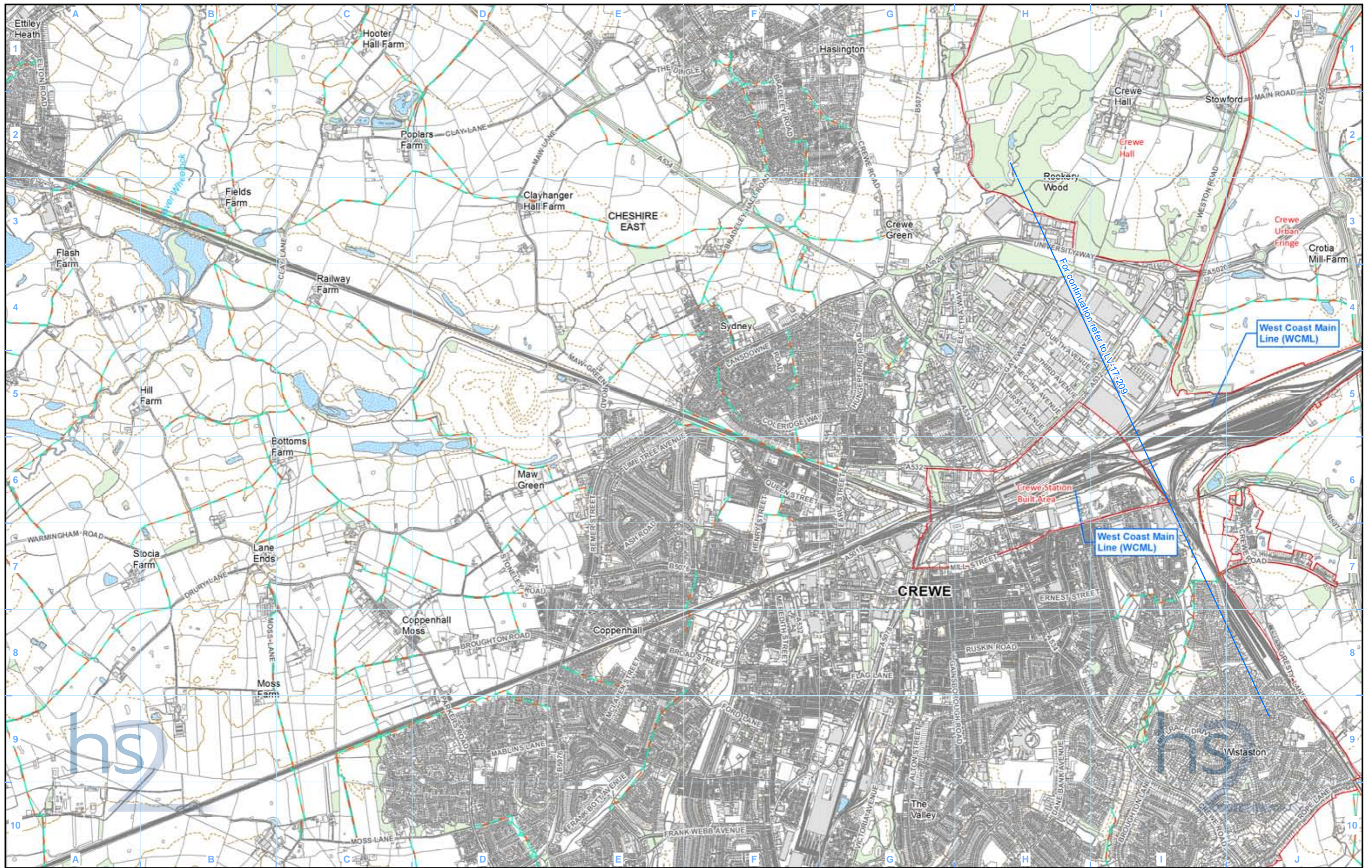
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Cannock Chase Area of Outstanding Natural Beauty (AONB)
 - Landscape Character Area boundary
 - Public Rights of Way (PRoW)
 - 5m contours
 - Water body
 - Existing woodland and tree belts
 - Tree planting
 - Other planting and hedgerows
 - Ecological mitigation pond
 - Balancing pond

Map Number: LV-17-210

Map Name: **Routewide Landscape Context**

Community Area 5: South Cheshire

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