

LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

Volume 2 | Map books

CFA10 | Dunsmore, Wendover and Halton

November 2013

ES 3.2.2.10



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
CT-05 – Construction Phase	These maps show the land potentially required during construction, the construction features, access requirements and infrastructure associated with construction of the Proposed Scheme. The maps also show the construction phase arrangements for public access using Public Rights of Way. The base mapping is reflective of 2013 Ordnance Survey (OS) data.
CT-06 – Proposed Scheme	These maps show permanent features, infrastructure, restored land, and areas for landscaping, screening and ecological mitigation associated with the Proposed Scheme. The base mapping is reflective of 2013 Ordnance Survey (OS) data.
CT-10 – Environmental Baseline	The Environmental Baseline maps display a range of environmental data layers.
LV-01 – Photomontages	Photomontages illustrating the Proposed Scheme during construction and operation.
LV-15 – Aerial Visualisations	Aerial visualisations along parts of the Proposed Scheme.
LV-03 – Construction Phase Significantly Affected Viewpoints	Maps showing the viewpoint locations from which the Proposed Scheme has been assessed to give rise to significant effects during the construction phase.
LV-04 – Operational Phase Significantly Affected Viewpoints	Maps showing the viewpoint locations from which the Proposed Scheme has been assessed to give rise to significant effects during the operational phase.
SV-05 – Operational Airborne Noise and Vibration Impacts and Likely Significant Effects	SV-05 presents the direct operational noise impacts and likely significant effects of the scheme. The SV-05 figure series contains a large amount of information relating to the operational noise and vibration assessment. It is designed to communicate visually the assessment process from the prediction of impacts to the determination of likely residual significant effects. The corresponding text is included in Vol2.

Mapping explanatory notes

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 London-West Midlands Environmental Statement (ES) contain Ordnance Survey (OS) data. HS2 Ltd uses the most up-to-date mapping available, where possible, supplied by the OS. 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 XX+YYY, for example: 77+000.

Chainage (known as reference chainage) is referenced from Euston station, which is 0+000, and the value presented is in metres. For example, 77+000 refers to the point 77,000m, or 77km, 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 1:10,000, 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 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 the West Midlands to the left.

The exceptions to this are map series LV-02, LV-03, LV-04, LV-07 and LV-08, which present the alignment running from the bottom to the 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 the West Midlands to the top.

Map books

There are a total of 76 map books in the ES, spread across Volumes 2, 4 and 5. A list of the titles is provided in the table below for reference.

Name	Name
Volume 2 Map Books Community Forum Area: 01 Euston – Station and Approach	Volume 5 Map Books: Ecology – Community Forum Area: 05 Northolt Corridor
Volume 2 Map Book s Community Forum Area: 02 Camden Town and HS1 Link	Volume 5 Map Books: Ecology – Community Forum Area: 06 South Ruislip to Ickenham
Volume 2 Map Books Community Forum Area: 03 Primrose Hill to Kilburn (Camden)	Volume 5 Map Books: Ecology – Community Forum Area: 07 Colne Valley
Volume 2 Map Books Community Forum Area: 04 Kilburn (Brent) to Old Oak Common	Volume 5 Map Books: Ecology – Community Forum Area: 08 The Chalfonts and Amersham
Volume 2 Map Books Community Forum Area: 05 Northolt Corridor	Volume 5 Map Books: Ecology – Community Forum Area: 09 Central Chilterns
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Volume 2 Map Books Community Forum Area: 23 Balsall Common and Hampton-in-Arden	Volume 5 Map Books: Land Quality
Volume 2 Map Books Community Forum Area: 24 Birmingham Interchange and Chelmsley Wood	Volume 5 Map Books: Landscape and Visual – Euston and London Metropolitan
Volume 2 Map Books Community Forum Area: 25 Castle Bromwich and Bromford	Volume 5 Map Books: Landscape and Visual – Country South
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Volume 4 Map Books Off Route Effects	Volume 5 Map Books: Landscape and Visual – West Midlands Metropolitan
Volume 5 Map Books: Agriculture, Forestry and Soils	Volume 5 Map Books: Socio-Economic
Volume 5 Map Books: Air Quality	Volume 5 Map Books: Sound, Noise and Vibration – Euston and London Metropolitan
Volume 5 Map Books: Community	Volume 5 Map Books: Sound, Noise and Vibration – Country South
Volume 5 Map Books: Cultural Heritage – Euston and London Metropolitan	Volume 5 Map Books: Sound, Noise and Vibration – Country North
Volume 5 Map Books: Cultural Heritage – Country South	Volume 5 Map Books: Sound, Noise and Vibration – West Midlands Metropolitan
Volume 5 Map Books: Cultural Heritage – Country North	Volume 5 Map Books: Traffic and Transport
Volume 5 Map Books: Cultural Heritage – West Midlands Metropolitan	Volume 5 Map Books: Water Resources – Euston and London Metropolitan
Volume 5 Map Books: Ecology – Community Forum Area: 01 Euston - Station and Approach	Volume 5 Map Books: Water Resources – Country South
Volume 5 Map Books: Ecology – Community Forum Area: 02 Camden Town and HS1 Link	Volume 5 Map Books: Water Resources – Country North
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Data dictionary and definitions

Data dictionary and definitions

Legend features	Definition	Source	Copyright
5m contours	A contour line showing points of equal elevation (height) above a reference level, such as mean sea level, and therefore giving an indication of the topography, showing valleys and hills, and the steepness of slopes. Spaced at intervals of 5m.	High Speed Two (HS2) Ltd	
Airborne sound study area	This defines the area within which operational airborne sound impacts of the scheme have been quantitatively assessed. This area is defined as within 1km of surface sections of the route in rural areas and within 500m of surface sections of the route in urban areas.	High Speed Two (HS2) Ltd	
Ancient Woodland	Ancient Woodland Inventory. Ancient Woodland is land that has had continuous woodland cover since at least AD1600.	Natural England	© Natural England copyright 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf
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	
Chainage	<p>Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres. E.g. 77+000 refers to the point, 77,000m, or 77km, 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 1:10,000, 1:5,000 and 1:2,500 scale, chainage is shown at 1km intervals.</p> <p>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.</p>	High Speed Two (HS2) Ltd	
Committed developments	<p>This informs the assessment of the future baseline.</p> <p>Committed consents are unimplemented but committed developments or Local Plan development allocations that are likely to be largely built out prior to commencement of the Proposed Scheme.</p> <p>Cumulative development is unimplemented but committed developments or Local Plan development allocations that are likely to be largely built out during implementation of the Proposed Scheme and give rise to potential cumulative effects, when considered alongside the Proposed Scheme.</p>	High Speed Two (HS2) Ltd	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.

Legend features	Definition	Source	Copyright
Community Forum boundary	The Environmental Statement has been split into 26 sections called Community Forum Areas.	High Speed Two (HS2) Ltd	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Conservation area	Areas considered worthy of preservation or enhancement because of their special architectural or historic interest. Conservation Areas have been captured and digitised from desktop based studies using publically available local authority information. Accuracy of the data is dependent upon that of the individual data source and areas are provided as indicative site boundaries only.	Local Authorities	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Construction compounds	See main construction compounds.	High Speed Two (HS2) Ltd	
Construction traffic route	Public highways which may be used for HGV construction traffic.	High Speed Two (HS2) Ltd	
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
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 and database rights 2013 Ordnance Survey Licence Number 100049190.
Ditches – new	The proposed location and extent of drainage ditches.	High Speed Two (HS2) Ltd	
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	
Electricity substation	Includes all auto-transformers and feeder stations.	High Speed Two (HS2) Ltd	
Engineering earthworks	Engineering (structural) earthworks which include railway slopes and crossings (roads etc).	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	
Envisaged mitigation to avoid/reduce significant noise effects	<p>Landscaping and/or fence barriers: These lines represent the envisaged mitigation provided specifically to reduce sound levels from the Proposed Scheme at sensitive receptors in order to reduce or remove likely operational significant noise effects. Examples include noise fence barriers or earth bunds (non-engineering earthworks) acting as noise barriers. These features are labelled with the height of the top of the barrier/bund above rail level.</p> <p>Engineering e.g. cuttings (green tunnels marked separately): These lines represent engineering features of the route which reduce sound levels from the Proposed Scheme at potentially significant sensitive receptors. These features, therefore, serve a material purpose in reducing or avoiding likely significant noise effects. Examples include engineering cuttings near to sensitive receptors. These features are labelled with the height of the top of the feature above rail level.</p>	High Speed Two (HS2) Ltd	
Envisaged mitigation further reducing noise effects	Other environmental features e.g. landscaping: These lines represent environmental mitigation features provided for reasons	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
	<p>other than noise mitigation which also reduce sound levels from the Proposed Scheme to the surrounding environment. These features are not placed specifically to reduce or remove a likely significant noise effect. Examples include landscaping and visual mitigation earthworks (non-engineering earthworks).</p> <p>Engineering e.g. cuttings: These lines represent engineering features which reduce sound levels from the Proposed Scheme to the surrounding environment but are not placed specifically to reduce or remove a likely significant noise effect. Examples include cuttings and safety barriers on viaducts which are not close to sensitive receptors.</p>		
Existing public right of way (PRoW)	See Public Rights of Way.	See Public Rights of Way.	See Public Rights of Way.
Existing watercourse	See Watercourse.	See Watercourse.	See Watercourse.
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	
Grassed areas	Any other area grassed not included in landscaped earthworks or ecological habitat.	High Speed Two (HS2) Ltd	
Grassland habitat creation	Soft landscape design that can include any seeded areas for the purpose of creating grassland except for the engineering earthworks.	High Speed Two (HS2) Ltd	
Ground-borne sound & vibration study area (highly sensitive non-residential)	This defines the area within which direct operational ground-borne sound and vibration impacts of the scheme at highly sensitive non-residential receptors have been quantitatively assessed. This area is defined as within 200m of the route.	High Speed Two (HS2) Ltd	
Ground-borne sound & vibration study area (residential and non-residential)	This defines the area within which direct operational ground-borne sound and vibration impacts of the scheme at residential and non-residential receptors have been quantitatively assessed. This area is defined as within 85m of the route.	High Speed Two (HS2) Ltd	
Hedgerow habitat creation	Ecological mitigation to provide new hedgerow planting, connectivity 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	
HS2 access road	Access road to HS2 infrastructure such as electricity substations, balancing ponds and maintenance access points to the railway.	High Speed Two (HS2) Ltd	
Land drainage area	Provision of land to attenuate or infiltrate overland flows at or beyond the HS2 railway boundaries; for example, where existing land drainage systems are altered by the HS2 works, where the existing landform is reshaped by landscape earthworks or where surface water from third party land is intercepted by the HS2 perimeter drainage system.	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	

Legend features	Definition	Source	Copyright
Landscape earthworks	Landscape earthworks to provide permanent landscape, visual or acoustic mitigation.	High Speed Two (HS2) Ltd	
Landscape mitigation planting (scrub / woodland)	Screening planting, using woodland, for visual mitigation and landscape integration purposes.	High Speed Two (HS2) Ltd	
Listed building Grade I	Buildings and structures in England of special architectural or historic interest. In some instances the source data for individual buildings is grouped under a single grid reference; in these instances the data may have been interrogated further to identify addresses of individual buildings with Listed Building status so that these can be displayed individually on the map. The Listed Building data consists of approximately 375,000 standing structures. The information has been converted from paper records georeferenced to digital mapping. A small percentage of the data was manually located. The data is subject to continuous review and regularly updated as new structures are designated and positional accuracy improves.	English Heritage	Contains, or is based upon, English Heritage's National Heritage List for England data © English Heritage.
Listed building Grade II*	Buildings and structures in England of special architectural or historic interest. In some instances the source data for individual buildings is grouped under a single grid reference; in these instances the data may have been interrogated further to identify addresses of individual buildings with Listed Building status so that these can be displayed individually on the map. The Listed Building data consists of approximately 375,000 standing structures. The information has been converted from paper records georeferenced to digital mapping. A small percentage of the data was manually located. The data is subject to continuous review and regularly updated as new structures are designated and positional accuracy improves.	English Heritage	Contains, or is based upon, English Heritage's National Heritage List for England data © English Heritage.
Listed building Grade II	Buildings and structures in England of special architectural or historic interest. In some instances the source data for individual buildings is grouped under a single grid reference; in these instances the data may have been interrogated further to identify addresses of individual buildings with Listed Building status so that these can be displayed individually on the map. The Listed Building data consists of approximately 375,000 standing structures. The information has been converted from paper records georeferenced to digital mapping. A small percentage of the data was manually located. The data is subject to continuous review and regularly updated as new structures are designated and positional accuracy improves.	English Heritage	Contains, or is based upon, English Heritage's National Heritage List for England data © English Heritage.
Local Nature Reserve (LNR)	An LNR is a statutory designation made under Section 21 of the National Parks and Access to the Countryside Act 1949 by principal local authorities. Data supplied has the status of Declared. The boundaries are interpreted from material gathered from the local authorities and does not currently cover all LNRs. This national dataset is indicative not definitive. Definitive information can only be provided by individual local authorities and you should refer directly to their information for all purposes that require the most up to date and complete dataset.	Natural England	© Natural England copyright 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf

Legend features	Definition	Source	Copyright
Local Wildlife Site (LWS) - county/metropolitan value			Data supplied by Ecorecord, Warwickshire BRC & Birmingham use (© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.)
		Supplied by Ecorecord, Warwickshire County Council, Birmingham Council	Map derived from GiGL data 2013 (where a map shows information derived from GiGL data).This data incorporates biodiversity data supplied to HS2 by Northamptonshire Biodiversity Records Centre and The Wildlife Trust for Bedfordshire, Cambridgeshire and Northamptonshire (Wildlife Trust BCN), and is copyright to Wildlife Trust BCN and/or its partners.
		Greenspace Information for Greater London (GiGL)	
	Local Wildlife Sites (LWS) are identified and selected for their local nature conservation value. They protect threatened species and habitats acting as buffers, stepping stones and corridors between nationally-designated wildlife sites.	Northamptonshire County Council	This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Buckinghamshire County Council Licence No. 100021529, 2012.
		Buckinghamshire County Council	Incorporates biodiversity data supplied by Thames Valley Environmental Records Centre (TVERC). This data are copyright to TVERC and/or its partners.
	Local Wildlife Sites (LWS) are local non-statutory nature conservation sites. They were formerly referred to as County Wildlife Sites.		Incorporates biodiversity data supplied to High Speed Two (HS2) by Hertfordshire Biological Records Centre and is copyright to Hertfordshire County Council, Hertfordshire Biological Records Centre and/or its partners.
	In some cases Local Wildlife data is not shown as this is still being verified.	Thames Valley Ecological Records Centre c/o Oxfordshire County Council (TVERC)	
		Hertfordshire Biological Record Centre	Copyright © Staffordshire Ecological Record Partnership, 2013. The information is reproduced from, or based upon information supplied by Staffordshire Ecological Record (SER) and reproduced with the permission of the SER Partnership. Individual records within the data are copyright their original recorders and provided under licence via SER. All data supplied by SER is to the best of SER's knowledge correct at the time of production. However, the precision or accuracy of SER data is usually based upon the original information supplied by the recorder and although SER strives to ensure all records are checked and validated, SER cannot be held responsible for any errors or omissions. The presence of a marked boundary within SER information does not imply any rights of public
		Staffordshire Ecological Record (SER)	

Legend features	Definition	Source	Copyright
			access.
Local Wildlife Site (LWS) - less than county/metropolitan value			Data supplied by Ecorecord, Warwickshire BRC & Birmingham use (© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.)
		Supplied by Ecorecord, Warwickshire County Council, Birmingham Council. Greenspace Information for Greater London (GiGL)	Map derived from GiGL data 2013 (where a map shows information derived from GiGL data).
		Northamptonshire County Council	This data incorporates biodiversity data supplied to HS2 by Northamptonshire Biodiversity Records Centre and The Wildlife Trust for Bedfordshire, Cambridgeshire and Northamptonshire (Wildlife Trust BCN), and is copyright to Wildlife Trust BCN and/or its partners.
	Local Wildlife Sites (LWS) are identified and selected for their local nature conservation value. They protect threatened species and habitats acting as buffers, stepping stones and corridors between nationally-designated wildlife sites.	Buckinghamshire County Council	This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Buckinghamshire County Council Licence No. 100021529, 2012.
	Local Wildlife Sites (LWS) are local non-statutory nature conservation sites. They were formerly referred to as County Wildlife Sites.		Incorporates biodiversity data supplied by Thames Valley Environmental Records Centre (TVERC). This data are copyright to TVERC and/or its partners.
	In some cases Local Wildlife data is not shown as this is still being verified.	Thames Valley Ecological Records Centre c/o Oxfordshire County Council (TVERC)	Incorporates biodiversity data supplied to High Speed Two (HS2) by Hertfordshire Biological Records Centre and is copyright to Hertfordshire County Council, Hertfordshire Biological Records Centre and/or its partners.
		Hertfordshire Biological Record Centre	
		Staffordshire Ecological Record (SER)	Copyright © Staffordshire Ecological Record Partnership, 2013. The information is reproduced from, or based upon information supplied by Staffordshire Ecological Record (SER) and reproduced with the permission of the SER Partnership. Individual records within the data are copyright their original recorders and provided under licence via SER. All data supplied by SER is to the best of SER's knowledge correct at the time of production. However, the precision or accuracy of SER data is usually based upon the original information supplied by the recorder and although SER strives to ensure all records are checked and validated, SER cannot be held responsible for any errors or

Legend features	Definition	Source	Copyright
			omissions. The presence of a marked boundary within SER information does not imply any rights of public access.
Main construction compound	Construction compounds in which main contractors offices and welfare facilities will be located.	High Speed Two (HS2) Ltd	
Main utility works	Represents all new major utility installations (included in the hybrid Bill) and also modifications to existing utilities required to construct the scheme. Includes water, electricity, telecommunications and gas.	High Speed Two (HS2) Ltd	
Minor ground-borne noise or vibration impact	Buildings at which a minor operational ground-borne sound or vibration impact is predicted from the Proposed Scheme.	High Speed Two (HS2) Ltd	
National Nature Reserve (NNR)	A National Nature Reserve (NNR) is the land declared under the National Parks and Access to the Countryside Act 1949 or Wildlife and Countryside Act (1981) as amended.	Natural England	© Natural England copyright 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf
New, diverted or realigned PRoW	New, realigned or diverted Public Rights of Way (PRoW).	High Speed Two (HS2) Ltd	
Noise fence barrier	Denotes fence-style barriers provided as part of the noise mitigation measures. Note that other noise barriers have also been included in the form of landscaping and engineering cuttings - see the SV map series for more detail on noise mitigation.	High Speed Two (HS2) Ltd	
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	
Operational airborne sound impacts at buildings	The buildings shown on SV-02 and SV-05 are colour-coded according to the magnitude of the predicted noise impacts of the Proposed Scheme. Noise impacts are calculated by comparing the sound levels predicted if the Proposed Scheme did not go ahead with those if it did (details of this process can be found in Volume 5: Appendix SV001-000). Panel B on SV-02/SV-05 contains a key showing the colours used with the corresponding impact categories. The impacts presented are the greatest (i.e. worst-case) of the impacts predicted for daytime and night-time.	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 realm	Specifically provided to show areas to be used for public realm. This layer is mainly associated with station sites and is to be used to indicate general areas for designed soft and hard landscaping.	High Speed Two (HS2) Ltd	
Public Rights of Way	Public rights of way are highways which can be used for the following purposes:	Buckinghamshire County Council Birmingham City Council	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.

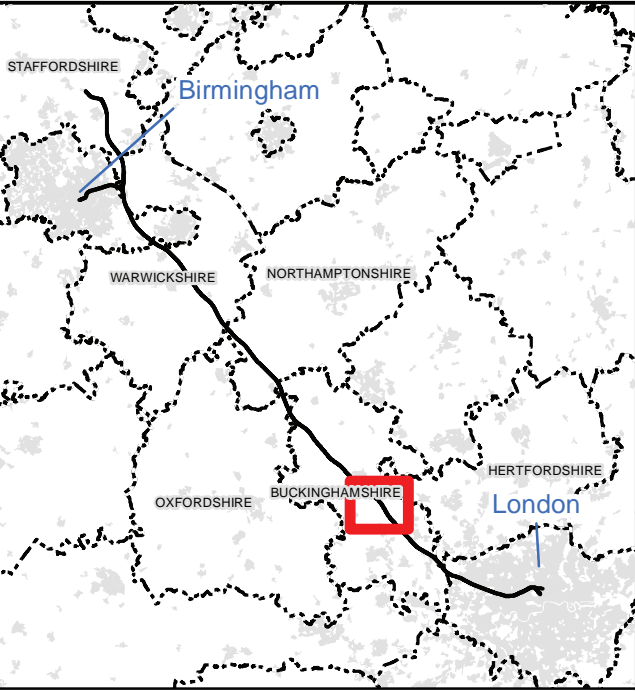
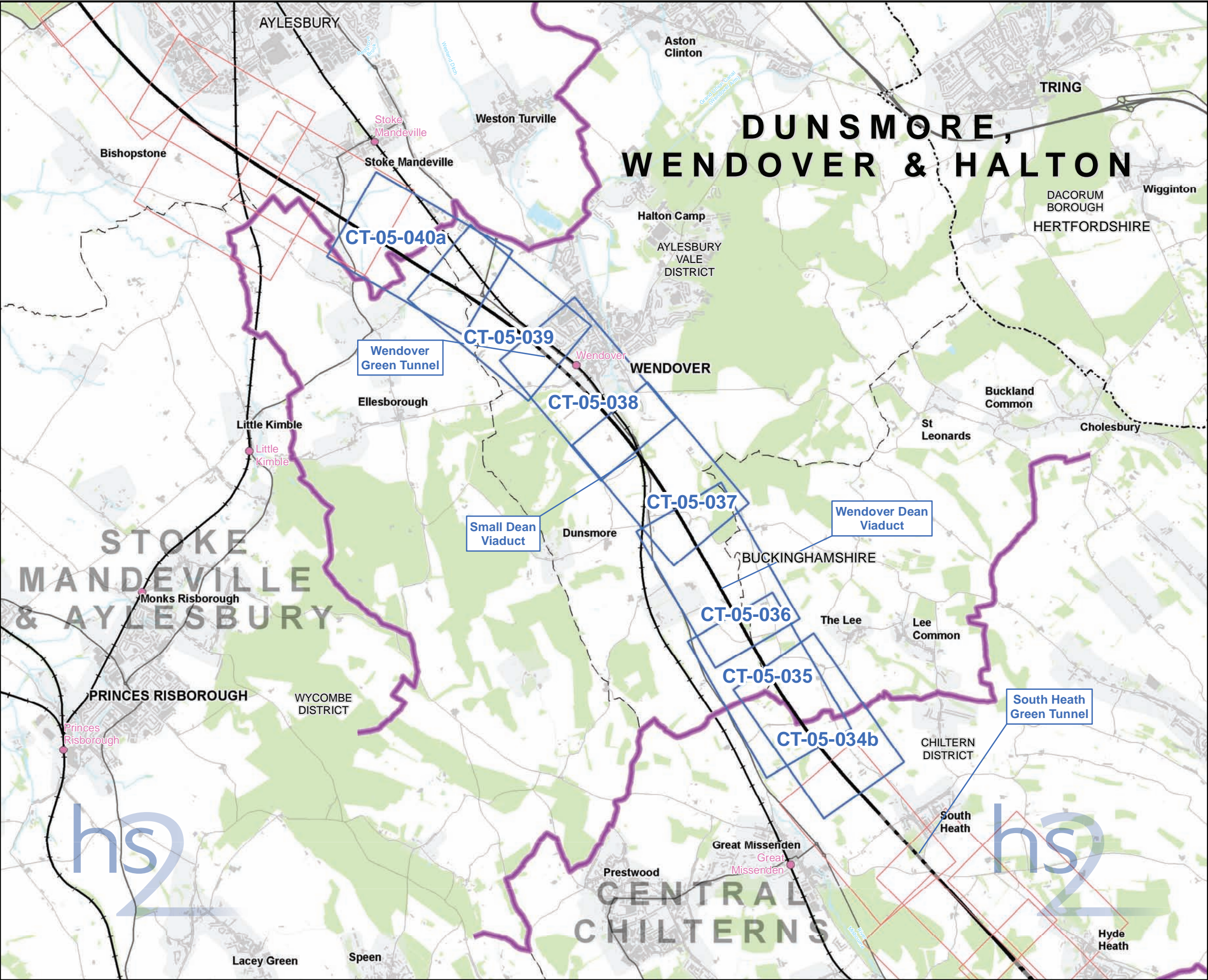
Legend features	Definition	Source	Copyright
	<ul style="list-style-type: none">- Footpaths - pedestrians only- Bridleways - pedestrians, cyclists and equestrians- Restricted byways - as bridleways plus non-motorised vehicles- Byways open to all traffic. Definitive Map data supplied by surveying authorities (i.e. county councils, London Boroughs and metropolitan borough councils in the West Midlands).	Coventry City Council City of Westminster Hertfordshire County Council London Borough of Brent London Borough of Camden London Borough of Ealing London Borough of Hammersmith & Fulham London Borough of Hillingdon Northamptonshire County Council Oxfordshire County Council Royal Borough of Kensington & Chelsea Solihull Metropolitan Borough Council Staffordshire County Council Warwickshire County Council	<p>This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Buckinghamshire County Council Licence No. 100021529, 2012. Copyright Buckinghamshire County Council.</p> <p>© Copyright Coventry City Council</p> <p>© Northamptonshire County Council</p>
Rail alignment	Longitudinal geometry of the tracks consisting of a series of straights and curves.	High Speed Two (HS2) Ltd	
Rail alignment formation	The space required to accommodate the railway infrastructure which typically includes the tracks, overhead line equipment, drainage, line-side access paths and cable routes for electrification and communication systems.	High Speed Two (HS2) Ltd	
Registered Park or Garden	<p>Parks and Gardens of special historic interest.</p> <p>Supplied by English Heritage. Of the 1,590 Registered Parks and Gardens, over 91% were captured against the 1:10,000 Ordnance Survey Raster product. 135 records are potentially subject to movement under Positional Accuracy Improvement (PAI).</p>	High Speed Two (HS2) Ltd	Contains, or is based upon, English Heritage's National Heritage List for England data © English Heritage.
Replacement floodplain storage	Provision of storage to replace floodplain occupied by the Proposed Scheme. Equivalent storage is provided for events up to the 1 in 100 (1%) annual probability event with an allowance for climate change.	High Speed Two (HS2) Ltd	
Returned to suitable development use	Post construction, land will be reinstated to enable potential future development.	High Speed Two (HS2) Ltd	
Route in tunnel Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Satellite construction compound	Represents satellite construction compounds which serve local works for major construction elements within a main contract.	High Speed Two (HS2) Ltd	
Scheduled Monument	A schedule has been kept since 1882 of monuments considered to be of national importance by the government. The current legislation, the Ancient Monuments and Archaeological Areas Act 1979, supports a formal system of Scheduled Monument Consent for any work to a designated monument. The Scheduled Monument layer consists of approximately 22,380 monuments tied into the Ordnance Survey. The majority of these are fixed; however, a small number of records may be updated as digital positional accuracy improves. The data is subject to continuous review and regularly updated as new monuments are designated.	English Heritage	Contains, or is based upon, English Heritage's National Heritage List for England data © English Heritage.
Significantly affected viewpoint	This dataset shows the locations of the visual receptors from which the scheme's visual impact has been assessed and shows	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
	whether or not the impact is significant or non-significant during construction and operation.		
Site of Special Scientific Interest (SSSI)	A Site of Special Scientific Interest (SSSI) is the land notified as an SSSI under the Wildlife and Countryside Act (1981), as amended.	Natural England	© Natural England copyright 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf
Stopped-up PRoW	Public right of way that will be closed due to construction of the scheme.	High Speed Two (HS2) Ltd	
Sustainable placement	The on-site placement for disposal of surplus excavated material to avoid causing environmental effects (e.g. transport) that would otherwise be associated with the off-site disposal of that material. 'On-site' in this context means within the land required for the purposes of the Proposed Scheme and 'off-site' means external land (or landfill site) which is not specifically required for the purposes of the Proposed Scheme.	High Speed Two (HS2) Ltd	
Temporary highway diversion / realignment	Indicative temporary highway diversion layouts during the construction phase.	High Speed Two (HS2) Ltd	
Temporary material stockpile	Represents temporary stockpiling of topsoil, subsoil and other excavated materials to be used for reinstatement purposes, and also stockpile areas for managing movement of excavated materials during construction.	High Speed Two (HS2) Ltd	
Temporary PRoW diversions/ realignments	Indicative temporary diversions to public rights of way as a result of construction of the scheme. These will vary depending on construction phase and local conditions.	High Speed Two (HS2) Ltd	
Tunnel portal	The footprint of a tunnel portal.	High Speed Two (HS2) Ltd	
Tunnel's external extent	The external excavated extent of each tunnel bore.	High Speed Two (HS2) Ltd	
Water body	Based on Ordnance Survey Vector Map District.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Watercourse	The Detailed River Network (DRN) is the only large-scale, accurate and fully attributed digital river centreline covering England and Wales.	Environment Agency	Contains Environment Agency information © Environment Agency and database right.
Watercourse diversion	Includes rivers, streams, ditches and other open channels, diversions to these, together with any new culverts required.	High Speed Two (HS2) Ltd	
Wetland habitat creation	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	
Woodland	Woodland areas derived from Ordnance Survey mastermap data.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Woodland habitat creation	Ecological mitigation area to provide new woodland planting, connectivity 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	

LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

CT-05 – Construction Phase

CT-06 – Proposed Scheme



Map Series Information:

These plans show the land potentially required during construction, the construction features, access requirements and infrastructure associated with construction of the Proposed Scheme. The plans also show the construction phase arrangements for public access using Public Rights of Way.

The base mapping shown on the plans is reflective of 2013 Ordnance Survey (OS) data.

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Community forum boundary

County boundary

District/Borough boundary

Map sheets included in this community forum

Map sheets not included in this community forum

Map Number

Map Name

Community Forum Area CFA10: Dunsmore, Wendover & Halton

Map Number

Map Name

Community Forum Area CFA10: Dunsmore, Wendover & Halton

Map Number

Map Name

Community Forum Area CFA10: Dunsmore, Wendover & Halton

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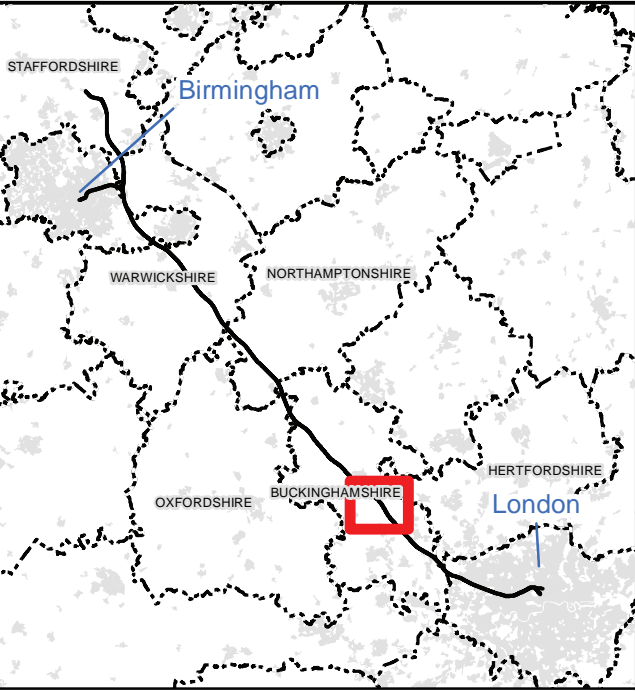
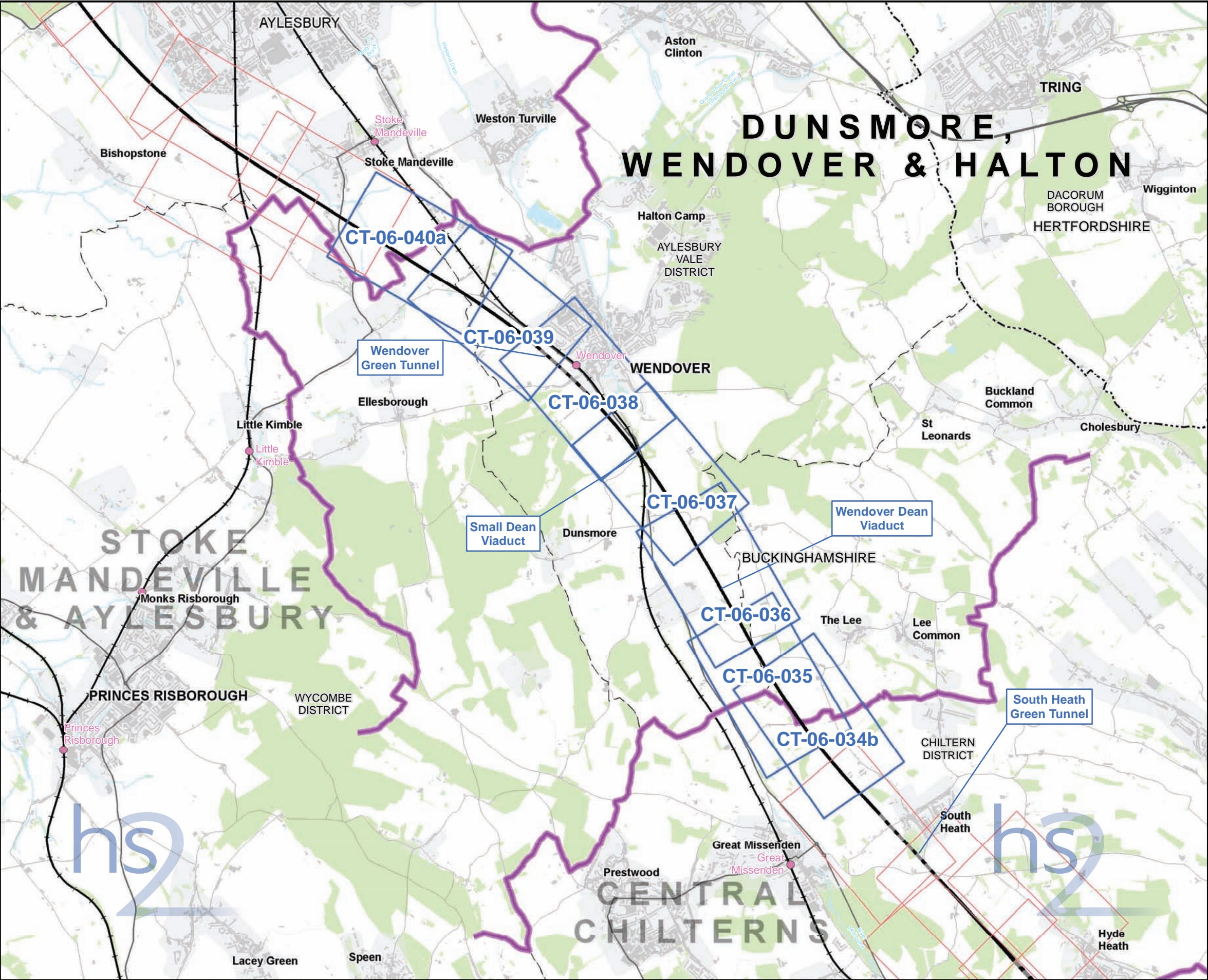
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Doc Number: C250-ARP-EV-MAP-000-004196--P05.00

Scale at A3: 1:50,000

0 500 1,000 1,500 2,000
Metres

Date: 29/10/13



Map Series Information:

These maps show permanent features, infrastructure, restored land, and areas for landscaping, screening and ecological mitigation associated with the Proposed Scheme.

The base mapping is reflective of 2013 Ordnance Survey (OS) data.

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

Map Number	CT-06-INDEX-CFA10
Map Name	Index Map of: Proposed Scheme
Community Forum Area CFA10: Dunsmore, Wendover & Halton	



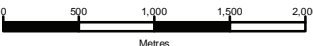
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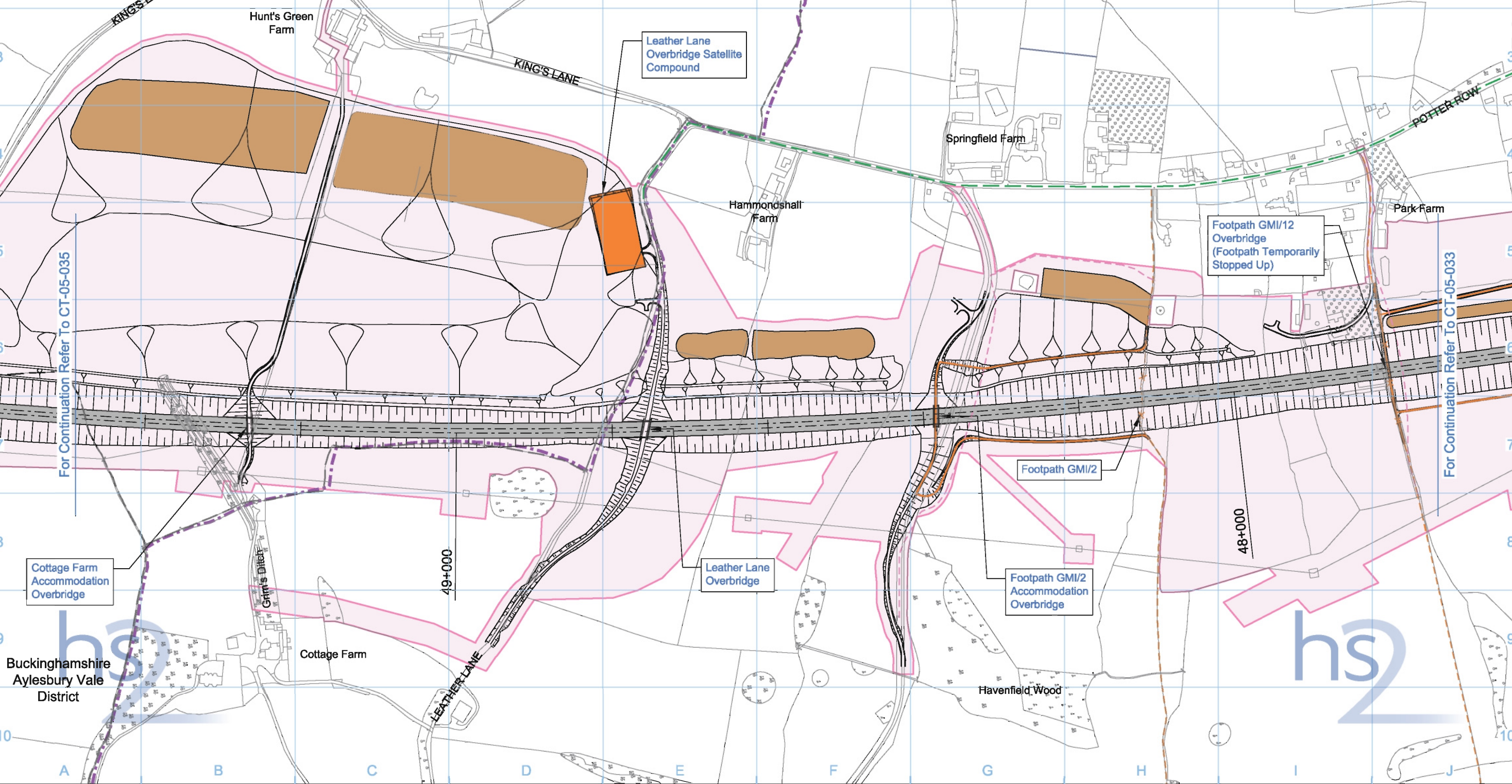
Date: 29/10/13

DUNSMORE, WENDOVER & HALTON

Buckinghamshire
Chiltern District

CENTRAL CHILTERNS

Buckinghamshire
Chiltern District



Legend

- Depot, station, headhouse or portal building
- Tunnel portal
- Main construction compound
- Satellite construction compound
- Temporary material stockpile
- Rail alignment formation
- Landscape earthworks
- Engineering earthworks
- County boundary
- Borough / District boundary
- Land potentially required during construction
- Community forum boundary
- Existing watercourse
- Tunnels external extent
- Construction traffic route
- Existing public right of way (PRoW)
- New, diverted or realigned PRoW
- Stopped-up PRoW
- Temporary PRoW diversion / realignment
- Temporary highway diversion / realignment
- UT - Main utility works
- Chainage (e.g. 10+000)
- Rail alignment

Map Number

CT-05-034b

Map Name

Construction Phase

Community Forum Area

CFA10
Dunsmore, Wendover and Halton

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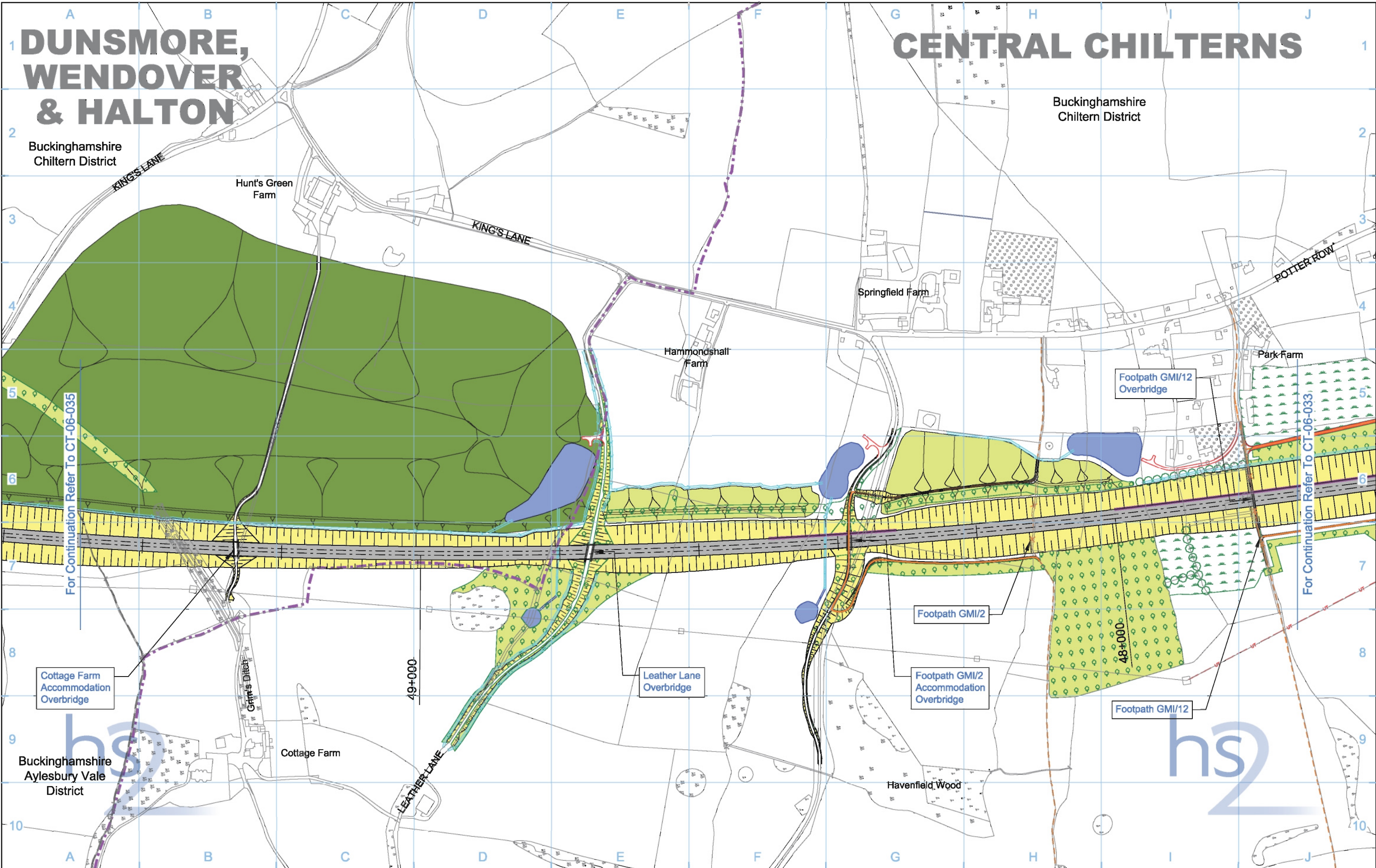
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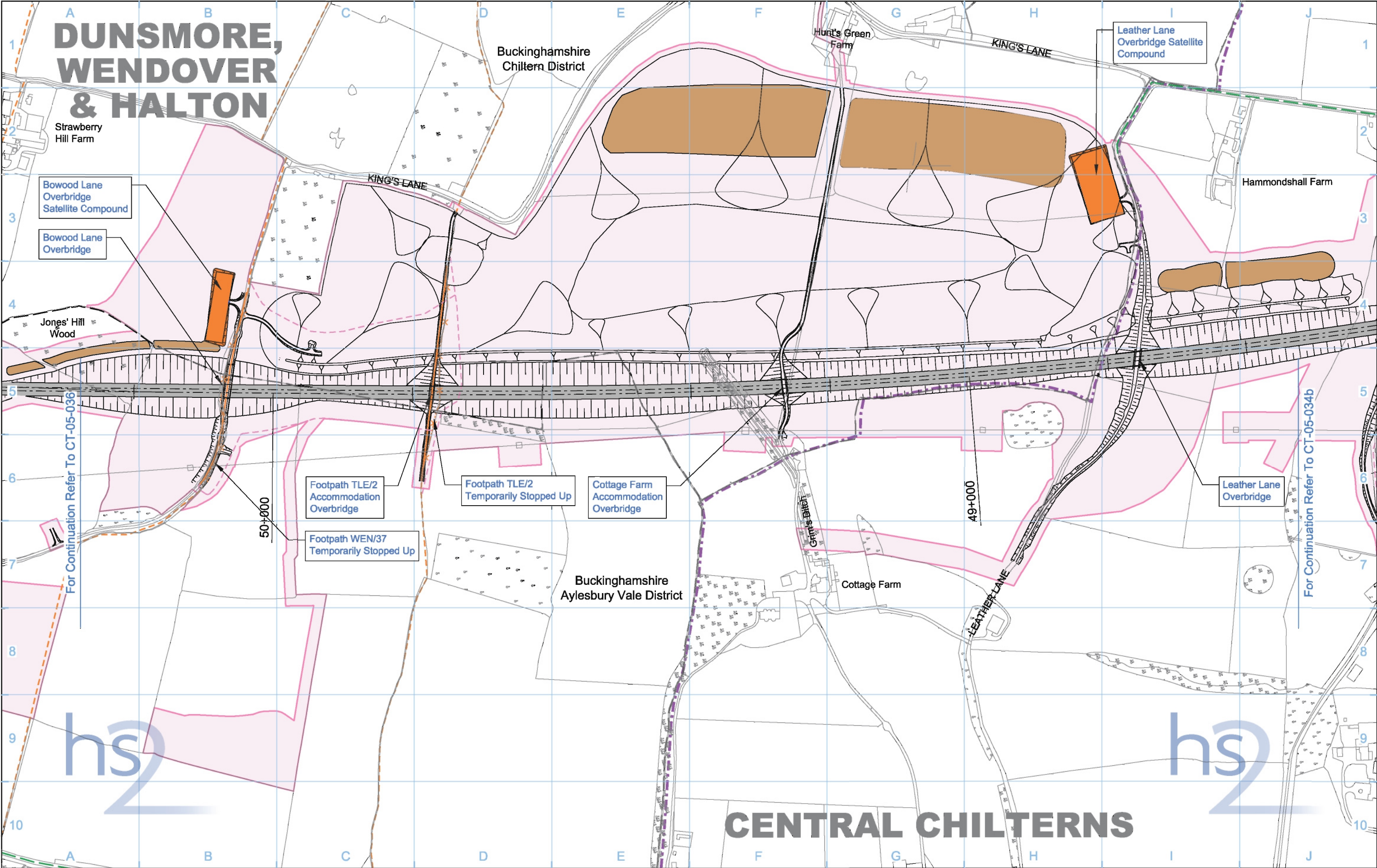
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Doc Number: C222-ATK-EV-DPL-020-051007 **P03** **Date:** 22/10/13



Legend	<ul style="list-style-type: none">Replacement floodplain storageWoodland habitat creationWetland habitat creationGrassland habitat creationLandscape mitigation planting (scrub / woodland)Grassed areasSustainable placement	<ul style="list-style-type: none">Public realmEngineering earthworksLandscape earthworksRail alignment formationReturned to suitable development useCounty boundaryBorough / District boundary	<ul style="list-style-type: none">Community forum boundaryWatercourse diversionExisting watercourseDitches - newHedgerow habitat creationMain utility worksExisting public right of way (PRoW)New, diverted or realigned PRoW	<ul style="list-style-type: none">Stopped-up PRoWTunnels external extentRail alignmentHS2 Access roadNoise fence barrierChainage (e.g. 10+000)	<p>Map Number: CT-06-034b</p> <p>Map Name: Proposed Scheme</p> <p>Community Forum Area: CFA10 Dunsmore, Wendover and Halton</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 06791688 Registered office: Eland House, Bressenden Place, London SW1E 6DU</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250 Metres</p> <p>© Crown copyright and database rights 2013. Ordnance Survey Licence Number 100048190.</p> <p>Doc Number: C222-ATK-EV-DPL-020-061007 P03 Date: 22/10/13</p>
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Legend

Depot, station, headhouse or portal building	Rail alignment formation	Community forum boundary	Stopped-up PRoW
Tunnel portal	Landscape earthworks	Existing watercourse	Temporary PRoW diversion / realignment
Main construction compound	Engineering earthworks	Tunnels external extent	Temporary highway diversion / realignment
Satellite construction compound	County boundary	Construction traffic route	Main utility works
Temporary material stockpile	Borough / District boundary	Existing public right of way (PRoW)	
	Land potentially required during construction	New, diverted or realigned PRoW	

Chainage (e.g. 10+000)
 Rail alignment

Map Number
CT-05-035

Map Name
Construction Phase

Community Forum Area
CFA10
Dunsmore, Wendover and Halton

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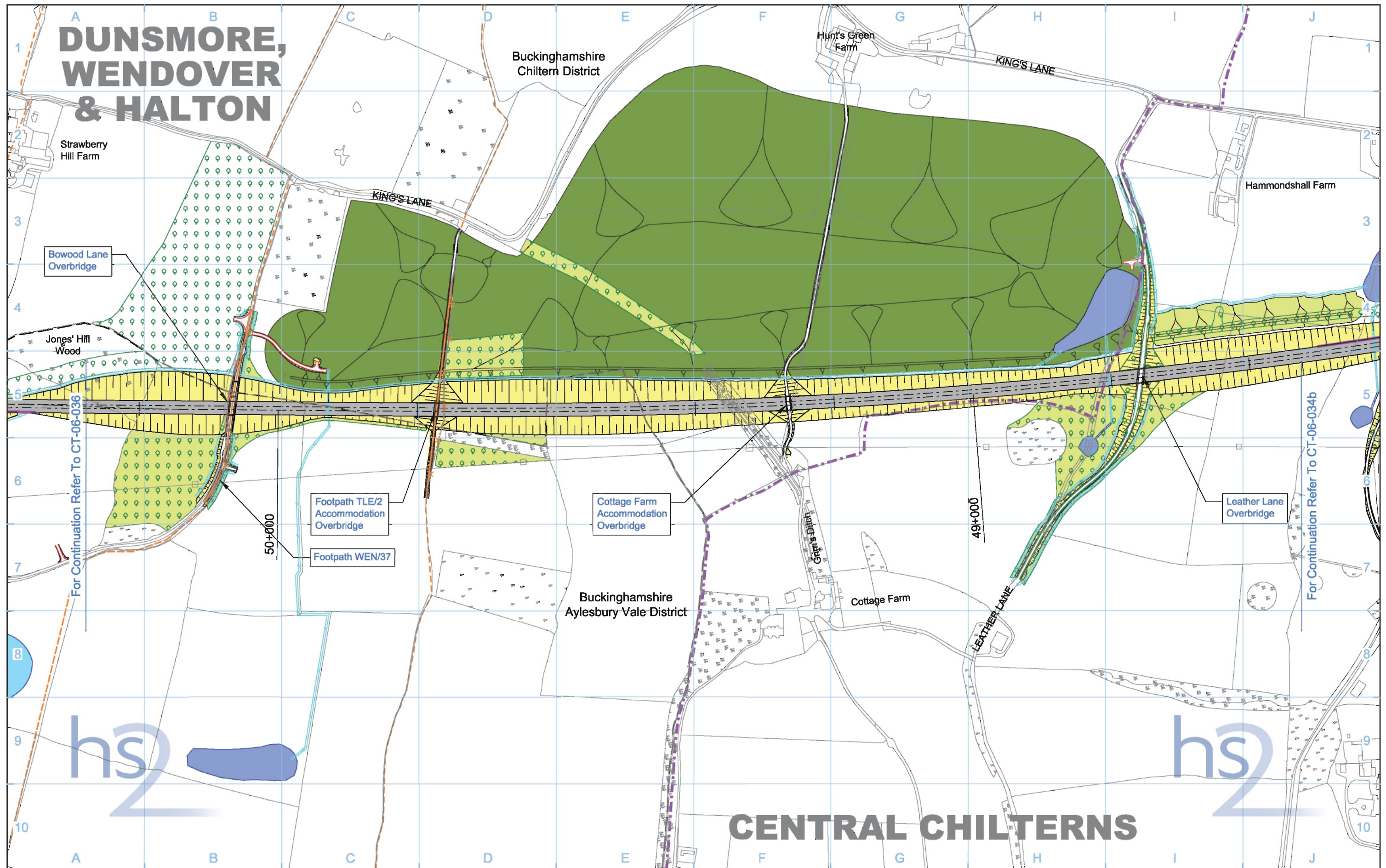
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Doc Number: C222-ATK-EV-DPL-020-051001 P03 Date: 22/10/13



Legend			
Depot, station, headhouse or portal building	Replacement floodplain storage	Public realm	Stopped-up PRoW
Tunnel portal	Woodland habitat creation	Engineering earthworks	Tunnels external extent
Electricity substation	Wetland habitat creation	Landscape earthworks	Rail alignment
Land drainage area	Grassland habitat creation	Rail alignment formation	HS2 Access road
Ecological mitigation pond	Landscape mitigation planting (scrub / woodland)	Returned to suitable development use	Noise fence barrier
Balancing pond	Grassed areas	County boundary	Chainage (e.g. 10+000)
	Sustainable placement	Borough / District boundary	
		Community forum boundary	
		Watercourse diversion	
		Existing watercourse	
		Ditches - new	
		Hedgerow habitat creation	
		Main utility works	
		Existing public right of way (PRoW)	
		New, diverted or realigned PRoW	

Map Number	CT-06-035
Map Name	Proposed Scheme
Community Forum Area	CFA10 Dunsmore, Wendover and Halton

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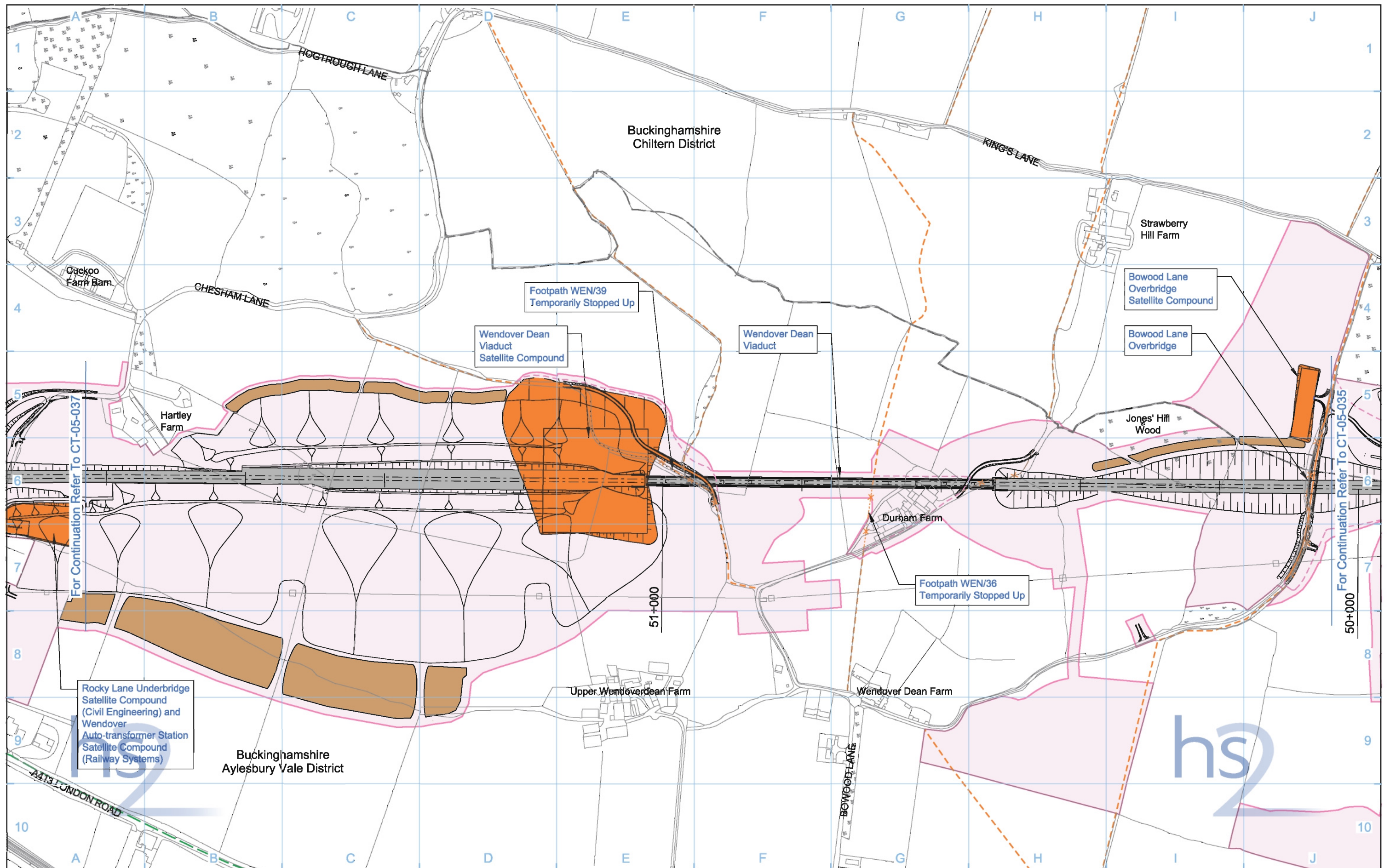
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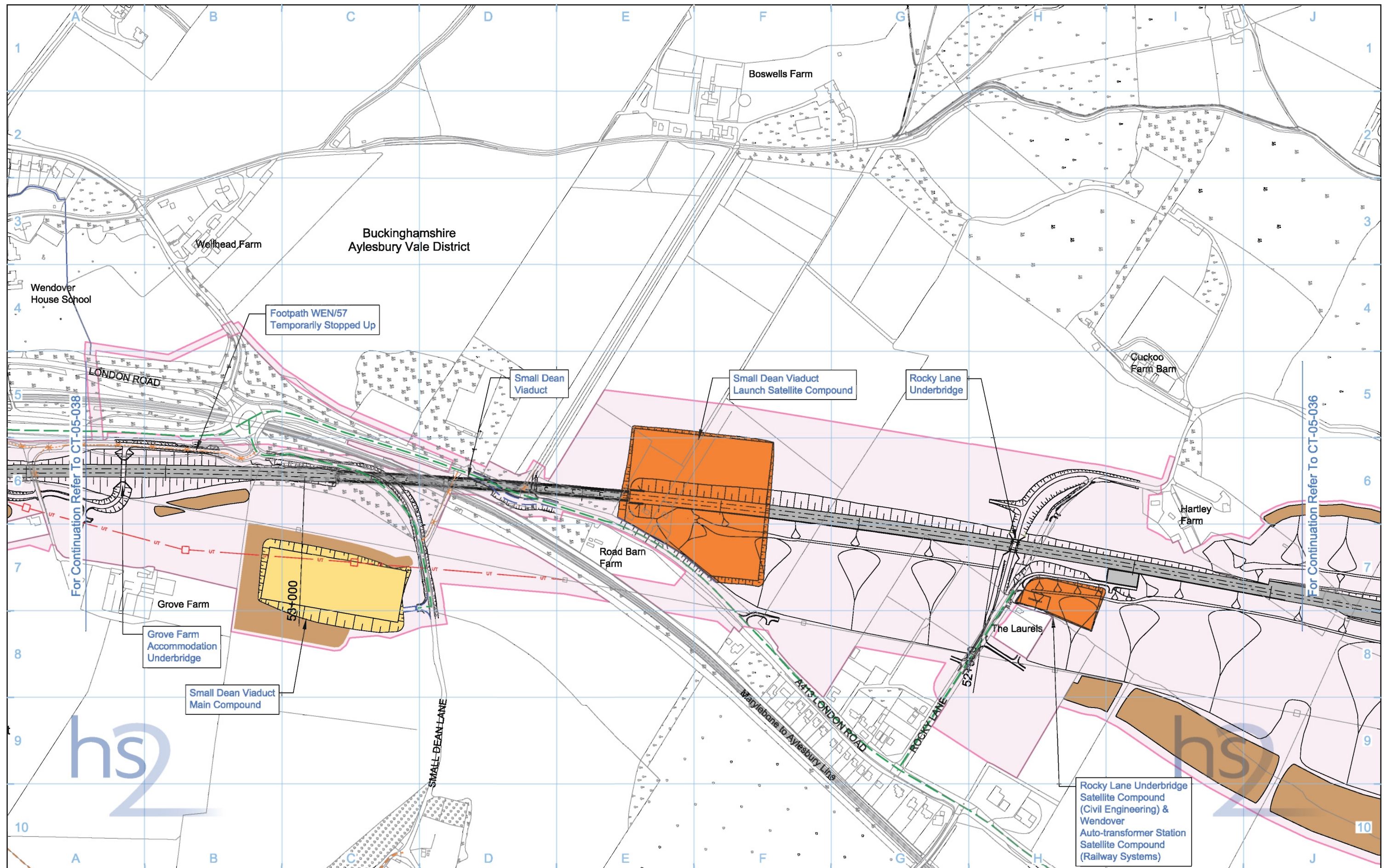
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Doc Number: C222-ATK-EV-DPL-020-061001 P03 Date: 22/10/13



Legend	<ul style="list-style-type: none">Rail alignment formationDepot, station, headhouse or portal buildingTunnel portalMain construction compoundSatellite construction compoundTemporary material stockpile	<ul style="list-style-type: none">Landscape earthworksEngineering earthworksCounty boundaryBorough / District boundaryLand potentially required during construction	<ul style="list-style-type: none">Community forum boundaryExisting watercourseTunnels external extentConstruction traffic routeExisting public right of way (PRoW)New, diverted or realigned PRoW	<ul style="list-style-type: none">Stopped-up PRoWTemporary PRoW diversion / realignmentTemporary highway diversion / realignmentUT - Main utility works	<ul style="list-style-type: none">Chainage (e.g. 10+000)Rail alignment	<table border="1"><tr><td>Map Number</td><td>CT-05-036</td></tr><tr><td>Map Name</td><td>Construction Phase</td></tr><tr><td>Community Forum Area</td><td>CFA10 Dunsmore, Wendover and Halton</td></tr></table>	Map Number	CT-05-036	Map Name	Construction Phase	Community Forum Area	CFA10 Dunsmore, Wendover and Halton	<div><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 06791688 Registered office: Eland House, Bressenden Place, London SW1E 6DU</p><p>© Crown copyright and database rights 2013. Ordnance Survey Licence Number 100048190.</p><p>Scale at A3: 1:5,000</p><p>0 50 100 150 200 250 Metres</p><p>Doc Number: C222-ATK-EV-DPL-020-051002 P03 Date: 22/10/13</p></div>
Map Number	CT-05-036												
Map Name	Construction Phase												
Community Forum Area	CFA10 Dunsmore, Wendover and Halton												



Legend		Community forum boundary		Stopped-up PRoW		Chainage (e.g. 10+000)	
Depot, station, headhouse or portal building	Rail alignment formation	Existing watercourse	Stopped-up PRoW	10+000	Chainage (e.g. 10+000)		
Tunnel portal	Landscape earthworks	Tunnels external extent	Temporary PRoW diversion / realignment				
Main construction compound	Engineering earthworks	Construction traffic route	Temporary highway diversion / realignment				
Satellite construction compound	County boundary	Existing public right of way (PRoW)	- UT - Main utility works				
Temporary material stockpile	Borough / District boundary	New, diverted or realigned PRoW					
	Land potentially required during construction						

Map Number: CT-05-037

Map Name: Construction Phase

Community Forum Area: CFA10, Dunsmore, Wendover and Halton

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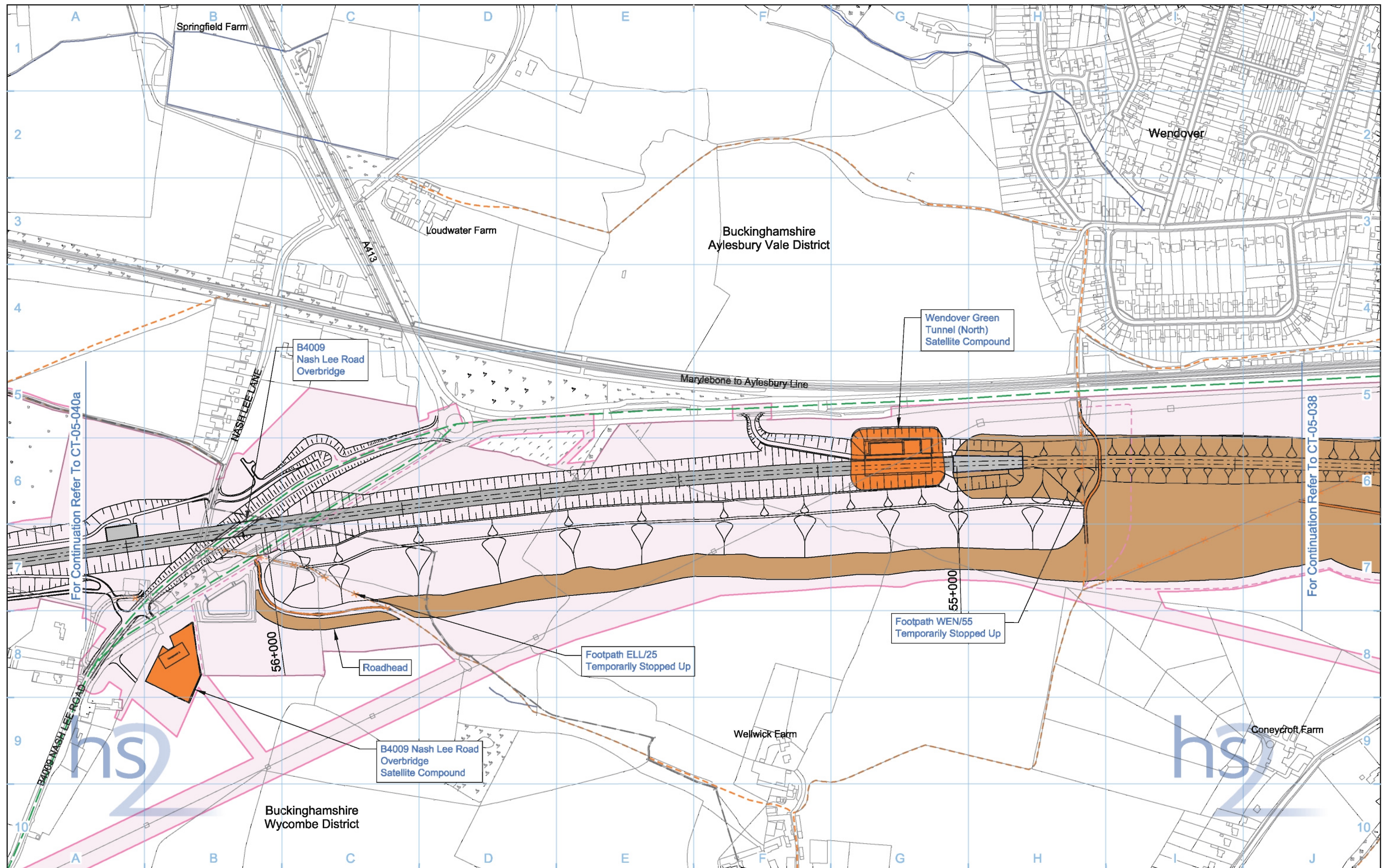
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Legend			
Depot, station, headhouse or portal building	Landscape earthworks	Community forum boundary	Stopped-up PRoW
Tunnel portal	Engineering earthworks	Existing watercourse	Temporary PRoW diversion / realignment
Main construction compound	County boundary	Tunnels external extent	Temporary highway diversion / realignment
Satellite construction compound	Borough / District boundary	Construction traffic route	Main utility works
Temporary material stockpile	Land potentially required during construction	Existing public right of way (PRoW)	
		New, diverted or realigned PRoW	

Map Information	
Map Number	CT-05-039
Map Name	Construction Phase
Community Forum Area	CFA10 Dunsmore, Wendover and Halton

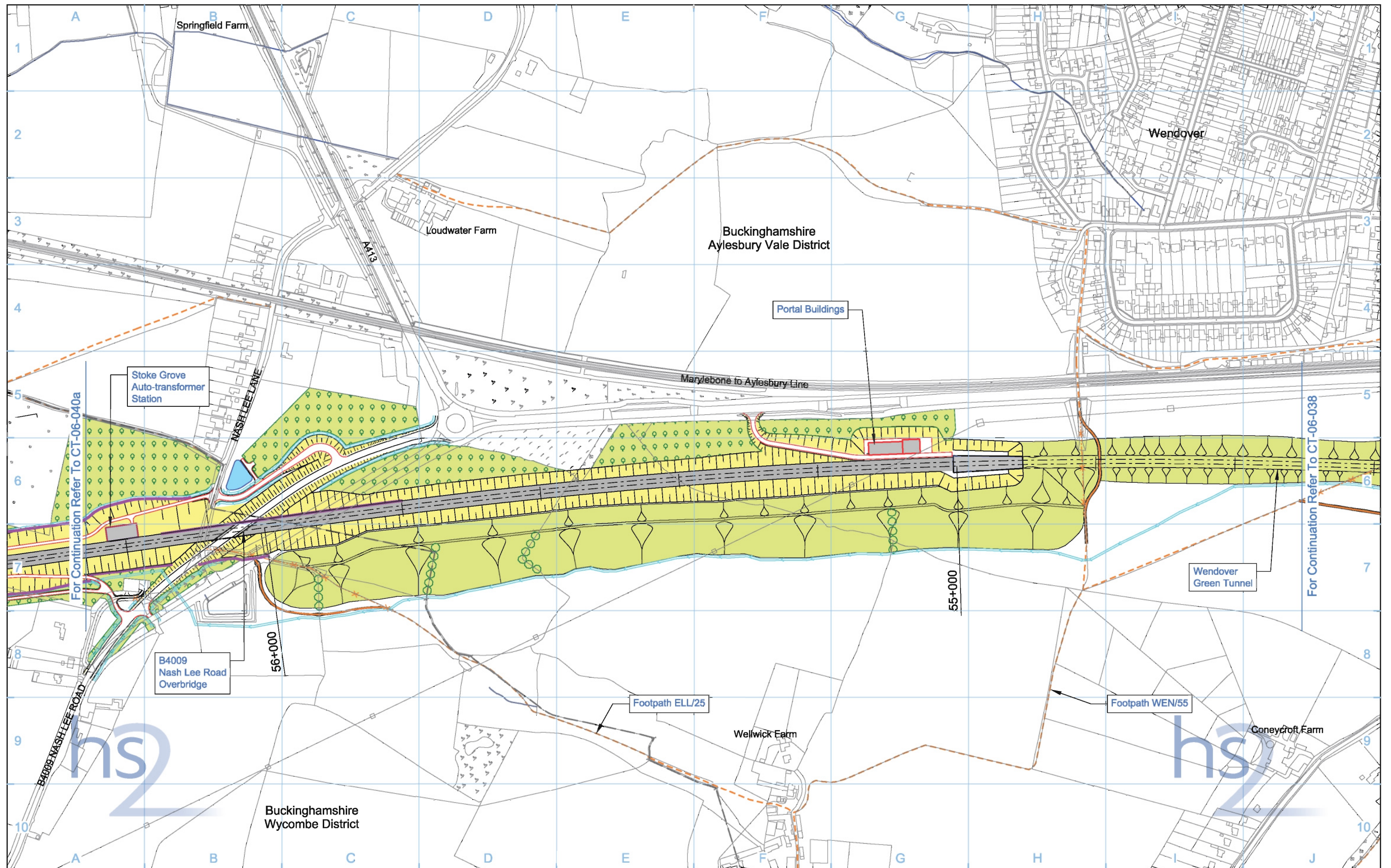
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Legend		Community forum boundary		Stopped-up PRoW	
Depot, station, headhouse or portal building	Replacement floodplain storage	Watercourse diversion	Existing watercourse	Tunnels external extent	Rail alignment
Tunnel portal	Woodland habitat creation	Ditches - new	Hedgerow habitat creation	HS2 Access road	Noise fence barrier
Electricity substation	Wetland habitat creation	Main utility works	Existing public right of way (PRoW)	Chainage (e.g. 10+000)	
Land drainage area	Grassland habitat creation	Returned to suitable development use	New, diverted or realigned PRoW		
Ecological mitigation pond	Landscape mitigation planting (scrub / woodland)	County boundary			
Balancing pond	Landscape earthworks	Borough / District boundary			
	Grassed areas				
	Sustainable placement				

Map Number: **CT-06-039**

Map Name: **Proposed Scheme**

Community Forum Area: CFA10
Dunsmore, Wendover and Halton

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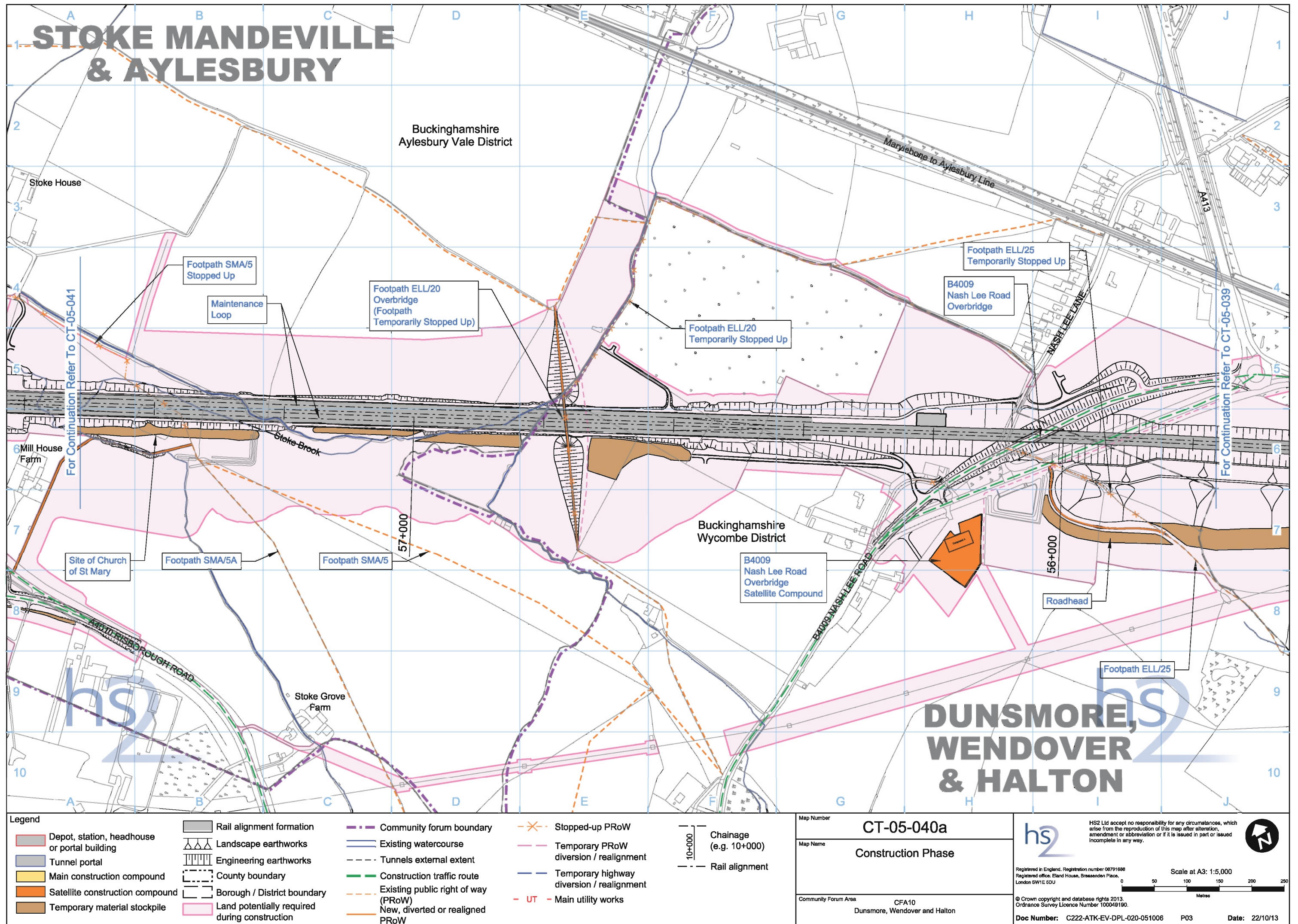
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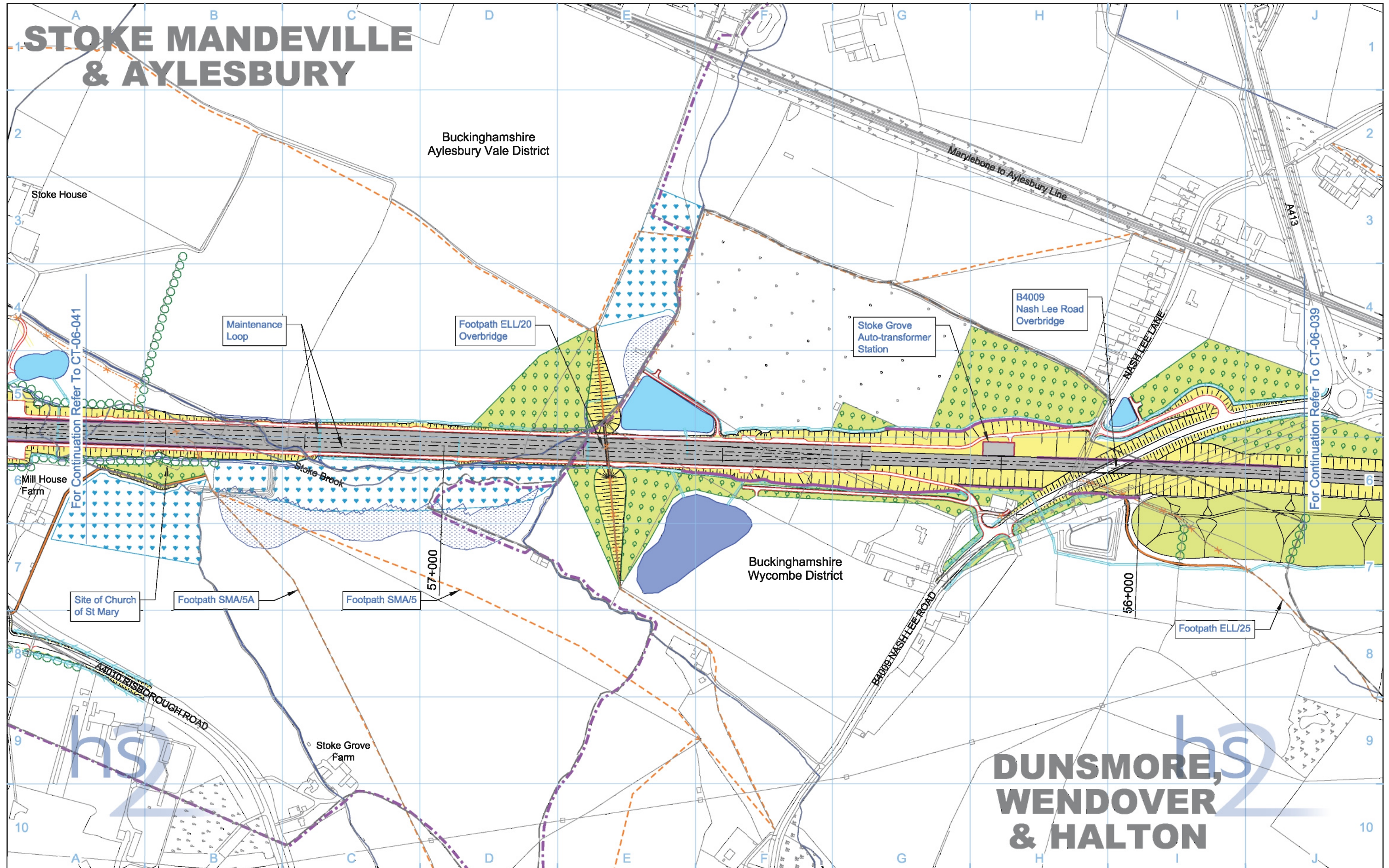
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Legend		Community forum boundary		Stopped-up PRoW	
Depot, station, headhouse or portal building	Replacement floodplain storage	Watercourse diversion	Tunnels external extent	Rail alignment	Chainage (e.g. 10+000)
Tunnel portal	Woodland habitat creation	Existing watercourse	Ditches - new	HS2 Access road	
Electricity substation	Wetland habitat creation	Hedgerow habitat creation	Main utility works	Noise fence barrier	
Land drainage area	Grassland habitat creation	Existing public right of way (PRoW)	Returned to suitable development use		
Ecological mitigation pond	Landscape mitigation planting (scrub / woodland)	New, diverted or realigned PRoW	County boundary		
Balancing pond	Landscape earthworks		Borough / District boundary		
	Grassed areas				
	Sustainable placement				

Map Number CT-06-040a

Map Name Proposed Scheme

Community Forum Area CFA10
Dunsmore, Wendover and Halton

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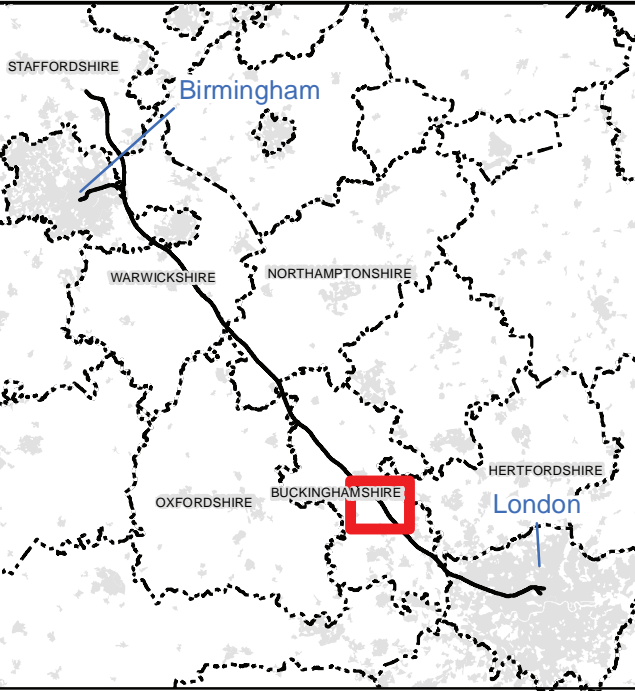
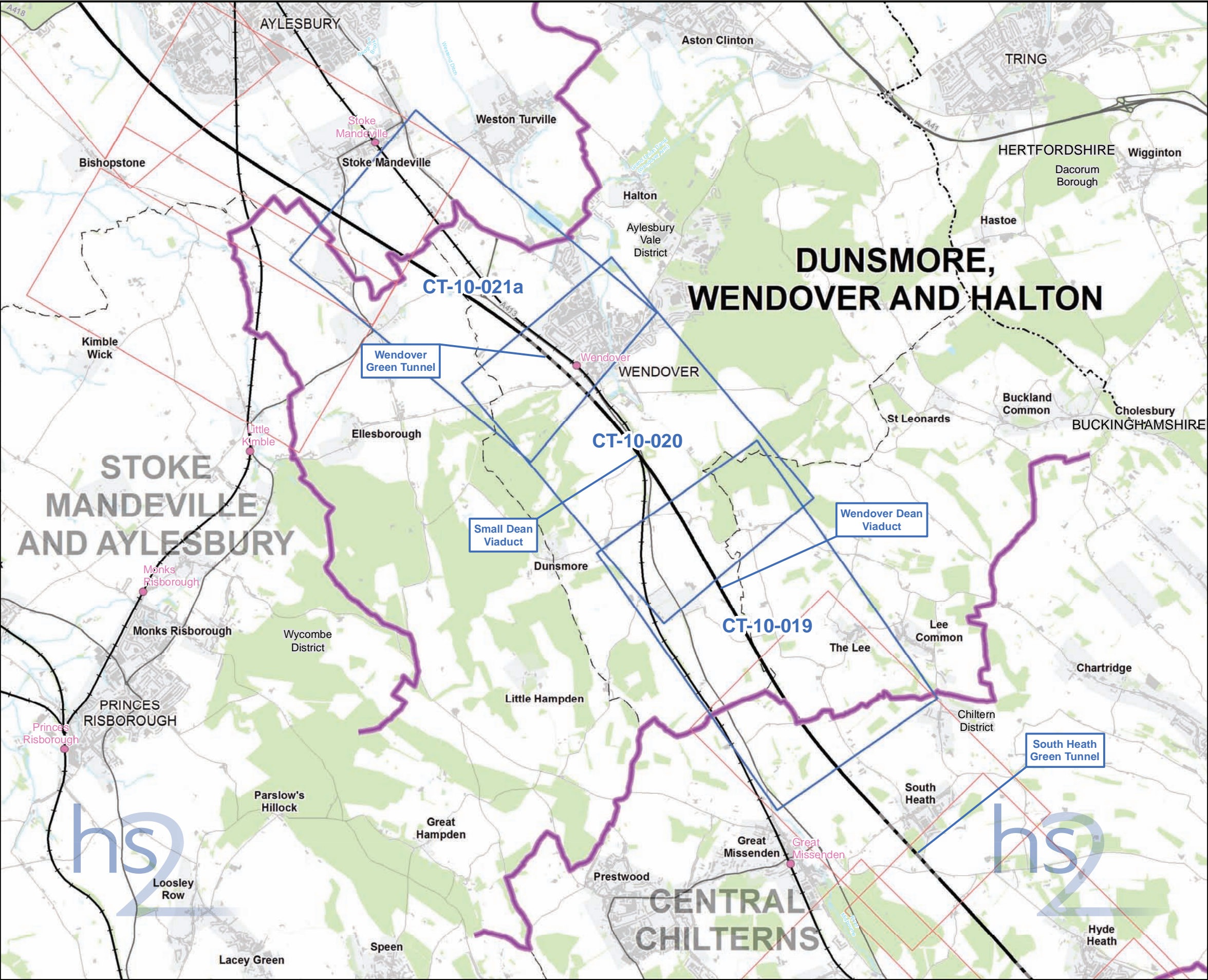
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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

CT-10 – Environmental Baseline



Map Series Information:

The Environmental Baseline maps display a range of environmental data layers.

Main Map Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Community forum boundary

Existing railway station

County boundary

District/Borough boundary

Map sheets included in this community forum

Map sheets not included in this community forum

Map Number

CT-10-INDEX-CFA10

Map Name

Index Map of:
Environmental Baseline

Community Forum Area CFA10:
Dunsmore, Wendover and Halton

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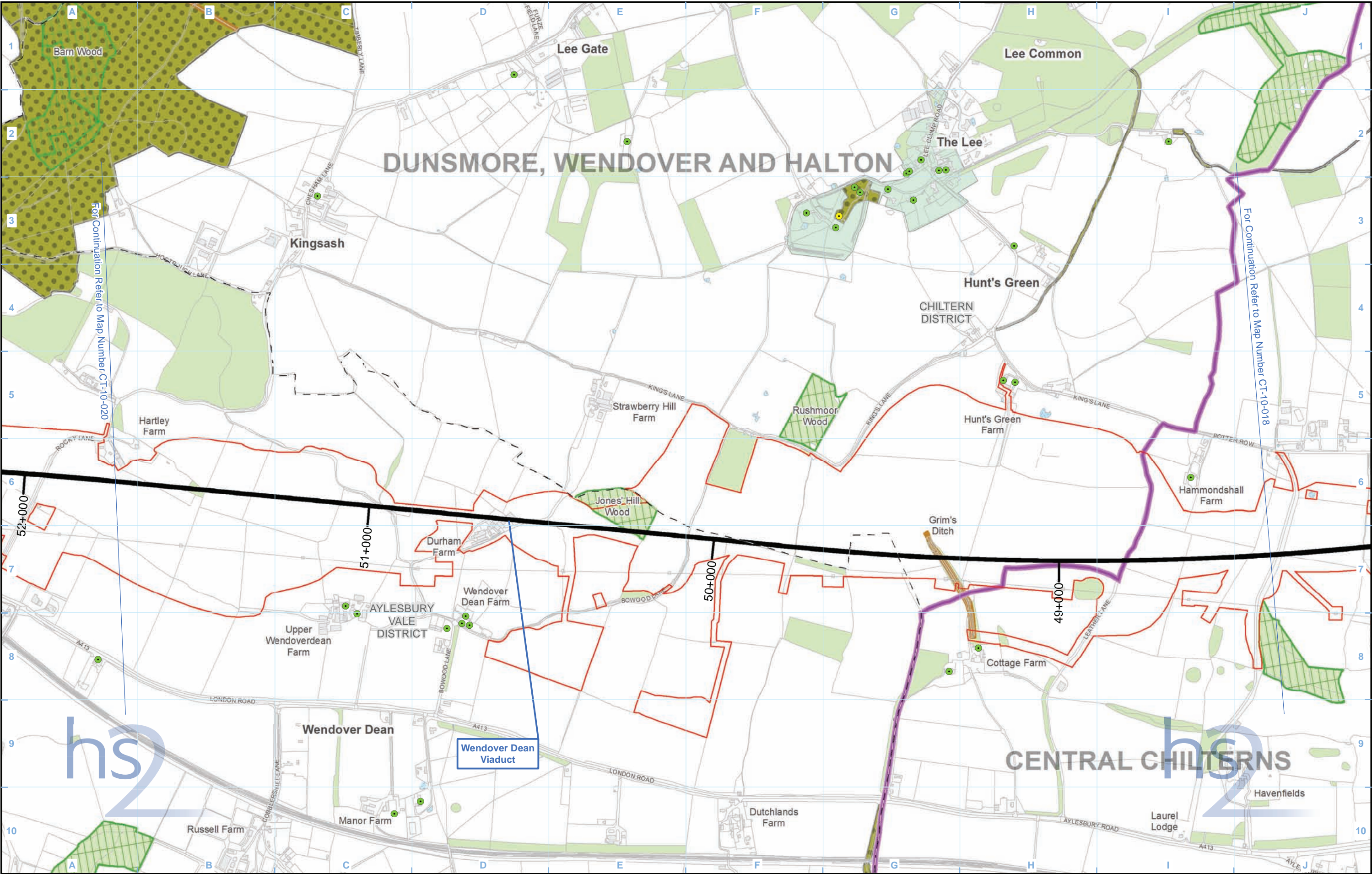
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Metres

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Date: 25/10/13



Legend			
	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland
	Land potentially required during construction		Conservation area
	Community forum boundary		Scheduled monument
	County boundary		Listed building Grade I
	District/Borough boundary		Listed building Grade II*
			Listed building Grade II
			Registered park or garden
			Site of Special Scientific Interest (SSSI)
			National Nature Reserve (NNR)
			Local Nature Reserve (LNR)
			Local Wildlife Site (LWS) - county/metropolitan value
			Local Wildlife Site (LWS) - less than county/metropolitan value
			Ancient woodland

Map Number	CT-10-019
Map Name	Environmental Baseline
Community Forum Area CFA10: Dunsmore, Wendover and Halton	

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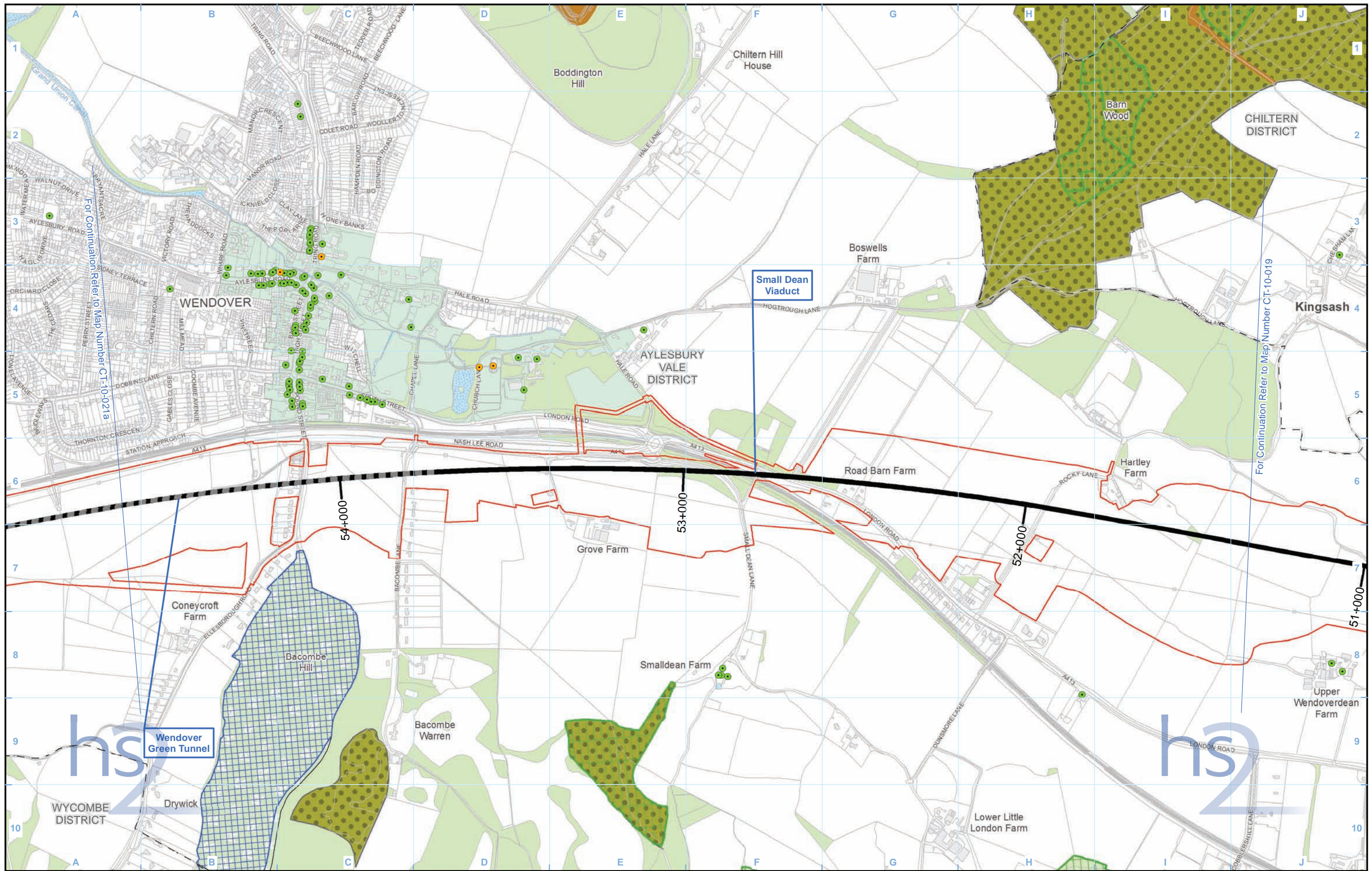
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Date: 25/10/13



Legend		Map Number CT-10-020	
Route in tunnel	Watercourse	Conservation area	Site of Special Scientific Interest (SSSI)
Route on surface	Water body	Scheduled monument	National Nature Reserve (NNR)
Depot, station, headhouse or portal building	Woodland	Listed building Grade I	Local Nature Reserve (LNR)
Land potentially required during construction		Listed building Grade II*	Local Wildlife Site (LWS) - county/metropolitan value
Community forum boundary		Listed building Grade II	Local Wildlife Site (LWS) - less than county/metropolitan value
County boundary		Registered park or garden	Ancient woodland
District/Borough boundary			
		Map Name Environmental Baseline	
		Community Forum Area CFA10: Dunsmore, Wendover and Halton	
		Doc Number: C252-ETM-EV-MAP-020-001250-P06.00	
		Date: 25/10/13	

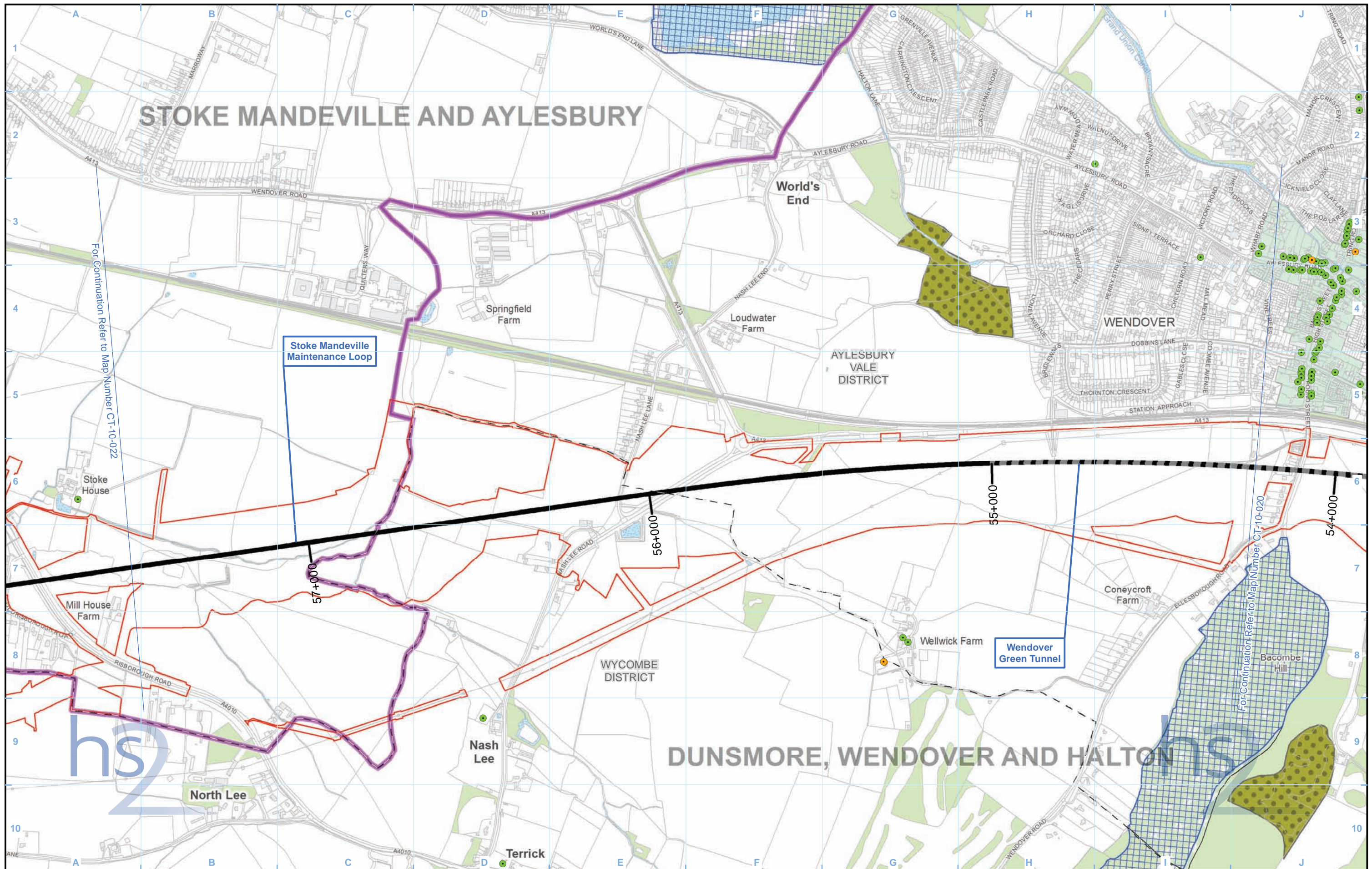
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0 100 200 300 400
Metres



Legend

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

- Watercourse
- Water body
- Woodland

- Conservation area
- Scheduled monument
- Listed building Grade I
- Listed building Grade II*
- Listed building Grade II
- Registered park or garden

- Site of Special Scientific Interest (SSSI)
- National Nature Reserve (NNR)
- Local Nature Reserve (LNR)
- Local Wildlife Site (LWS) - county/metropolitan value
- Local Wildlife Site (LWS) - less than county/metropolitan value
- Ancient woodland

Map Number

CT-10-021a

Map Name

Environmental Baseline

Community Forum Area CFA10:
Dunsmore, Wendover and Halton

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Scale at A3: 1:10,000

Doc Number: C252-ETM-EV-MAP-020-001251-P06.00

Date: 25/10/13

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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

LV-01 - Photomontages



LV-15 - Aerial Visualisations

Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage



<div><div>Technical Information</div><div>Location: Viewpoint 095-3-002: View east from the South Bucks Way PRow (Bridleway WEN/45), near Cockshoots Wood.</div><div><div>Date taken: 21/03/13</div><div>Time taken: 15:28</div><div>Focal length: 57.296mm</div></div><div>Viewpoint location shown on Map LV-04-035b.</div><div>For key plan legend refer to map series LV-04.</div></div> <div><div>This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.</div></div> <div><div><div>Key Plan</div><div></div></div></div> <div><div><div>Figure Number</div><div>LV-01-044</div></div><div><div>Figure Name</div><div>Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 095-3-002</div></div><div><div>Community Forum Area CFA10: Dunsmore, Wendover and Halton</div></div></div> <div><div><div></div><div>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 anyway.</div></div><div><div><div>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</div><div>© Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190</div></div><div><div>Doc Number: C250-ARP-EV-PHO-000-001043-P01</div><div>Date: 17/10/13</div></div></div></div>
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Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage



<p>Technical Information Location: Viewpoint 098-3-001: View west from PRoW (Foot-path TLE/3) on Bowood Lane.</p> <p>Date taken: 21/03/13 Time taken: 14:09 Focal length: 57.296mm</p> <p>Viewpoint location shown on Map LV-04-035b. For key plan legend refer to map series LV-04.</p>	<p>This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.</p>		<table><tr><td>Figure Number</td><td>LV-01-045</td></tr><tr><td>Figure Name</td><td>Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 098-3-001</td></tr><tr><td></td><td>Community Forum Area CFA10: Dunsmore, Wendover and Halton</td></tr></table>	Figure Number	LV-01-045	Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 098-3-001		Community Forum Area CFA10: Dunsmore, Wendover and Halton	<div><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 anyway.</p><p><small>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190 Doc Number: C250-ARP-EV-PHO-000-001044-P01</small></p></div> <p>Date: 17/10/13</p>
Figure Number	LV-01-045									
Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 098-3-001									
	Community Forum Area CFA10: Dunsmore, Wendover and Halton									

Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage



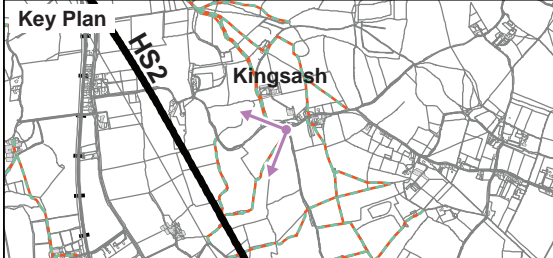

<div>Technical Information</div> <div>Location: Viewpoint 098-3-003: View north-west from PRoW (Footpath TLE/5) near Kingsash.</div> <div>Date taken:27/02/13 Time taken: 14:52 Focal length: 57.296mm</div> <div>Viewpoint location shown on Map LV-04-035b. For key plan legend refer to map series LV-04.</div>	<div>This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.</div>	<div><div><div>Key Plan</div><div></div></div></div>	<div><div>Figure Number</div><div>LV-01-046</div></div> <div><div>Figure Name</div><div>Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 098-3-003</div></div> <div><div>Community Forum Area CFA10: Dunsmore, Wendover and Halton</div></div>	<div><div><div><div>hs2</div><div>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</div><div>© Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190</div><div>Doc Number: C250-ARP-EV-PHO-000-001045-P01</div></div><div><div>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 anyway.</div><div>Date: 17/10/13</div></div></div></div>
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Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage



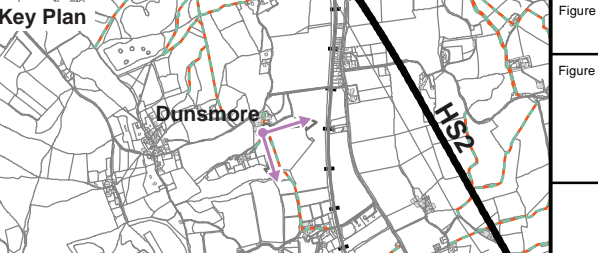

<p>Technical Information Location: Viewpoint 100-2-001: View south-west from dwellings at the junction of King's Lane and Rocky Lane, Kingsash.</p> <p>Date taken: 28/03/13 Time taken: 12:09 Focal length: 57.296mm</p> <p>Viewpoint location shown on Map LV-04-035b. For key plan legend refer to map series LV-04.</p>	<p>This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.</p>	 <p>The key plan is a map showing the location of the viewpoint (indicated by a purple arrow) and the proposed scheme (indicated by a black line labeled 'HS2'). The map includes labels for 'Kingsash' and 'HS2'.</p>	<table><tr><td>Figure Number</td><td>LV-01-048</td></tr><tr><td>Figure Name</td><td>Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 100-2-001</td></tr><tr><td></td><td>Community Forum Area CFA10: Dunsmore, Wendover and Halton</td></tr></table>	Figure Number	LV-01-048	Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 100-2-001		Community Forum Area CFA10: Dunsmore, Wendover and Halton	<div><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 anyway.</p><p><small>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190 Doc Number: C250-ARP-EV-PHO-000-001047-P01</small></p></div> <p>Date: 10/10/13</p>
Figure Number	LV-01-048									
Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 100-2-001									
	Community Forum Area CFA10: Dunsmore, Wendover and Halton									

Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage



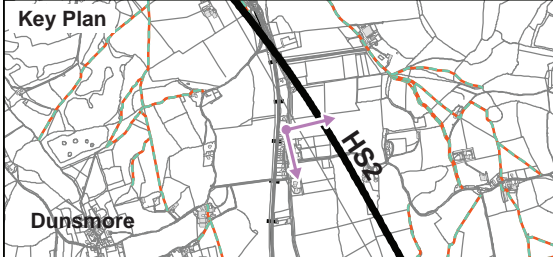

<div><div>Technical Information</div><div>Location: Viewpoint 101.2.002: View east from dwellings near Little London, Dunsmore.</div><div>Date taken: 21/03/13 Time taken: 16:09 Focal length: 57.296mm</div><div>Viewpoint location shown on Map LV-04-036. For key plan legend refer to map series LV-04.</div></div>	<div><div>This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.</div></div>	<div><div><div>Key Plan</div><div></div></div></div>	<div><div><div>Figure Number</div><div>LV-01-049</div></div><div><div>Figure Name</div><div>Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 101-2-002</div></div><div><div>Community Forum Area CFA10: Dunsmore, Wendover and Halton</div></div></div>	<div><div><div></div><div>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 anyway.</div></div><div><div><div>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</div><div>© Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190</div><div>Doc Number: C250-ARP-EV-PHO-000-001048-P01</div></div><div>Date: 17/10/13</div></div></div>
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Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage



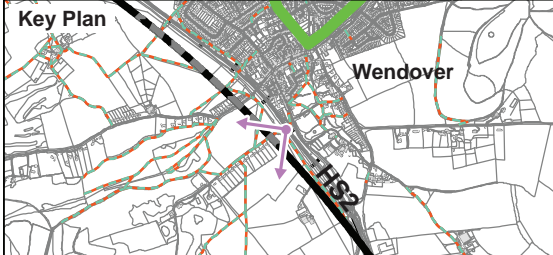

<p>Technical Information Location: Viewpoint 101-2-003: View east from dwellings on London Road, Small Dean.</p> <p>Date taken: 27/03/13 Time taken: 15:54 Focal length: 57.296mm</p> <p>Viewpoint location shown on Map LV-04-036. For key plan legend refer to map series LV-04.</p>	<p>This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.</p>		<table><tr><td>Figure Number</td><td>LV-01-050</td></tr><tr><td>Figure Name</td><td>Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 101-2-003</td></tr><tr><td></td><td>Community Forum Area CFA10: Dunsmore, Wendover and Halton</td></tr></table>	Figure Number	LV-01-050	Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 101-2-003		Community Forum Area CFA10: Dunsmore, Wendover and Halton	<div><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 anyway.</p><p><small>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190 Doc Number: C250-ARP-EV-PHO-000-001049-P01</small></p></div> <p>Date: 24/10/13</p>
Figure Number	LV-01-050									
Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 101-2-003									
	Community Forum Area CFA10: Dunsmore, Wendover and Halton									

Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage



<p>Technical Information Location: Viewpoint 104-3-002: View south-west from PRow (Bridleway WEN/14) on Bacombe Lane, Wendover.</p> <p>Date taken: 28/02/13 Time taken: 10:48 Focal length: 57.296mm</p> <p>Viewpoint location shown on Map LV-04-036. For key plan legend refer to map series LV-04.</p>	<p>This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.</p>	 <p>The Key Plan is a map showing the location of the viewpoint (indicated by a purple arrow) and the proposed scheme (indicated by a green line) in the area around Wendover. The map includes labels for 'Wendover' and 'HS2'.</p>	<table><tr><td>Figure Number</td><td>LV-01-051</td></tr><tr><td>Figure Name</td><td>Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 104-3-002</td></tr><tr><td></td><td>Community Forum Area CFA10: Dunsmore, Wendover and Halton</td></tr></table>	Figure Number	LV-01-051	Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 104-3-002		Community Forum Area CFA10: Dunsmore, Wendover and Halton	<div><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 anyway.</p><p><small>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190</small></p><p>Doc Number: C250-ARP-EV-PHO-000-001050-P01</p></div> <p>Date: 17/10/13</p>
Figure Number	LV-01-051									
Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 104-3-002									
	Community Forum Area CFA10: Dunsmore, Wendover and Halton									

Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage



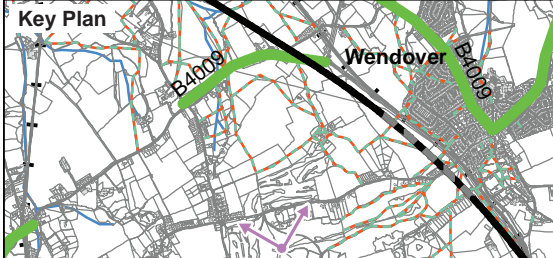

<p>Technical Information Location: Viewpoint 105-2-002: View east from Wellwick Farm, Wendover.</p> <p>Date taken: 28/03/13 Time taken: 12:47 Focal length: 57.296mm</p> <p>Viewpoint location shown on Map LV-04-037. For key plan legend refer to map series LV-04.</p>	<p>This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.</p>		<table><tr><td>Figure Number</td><td>LV-01-053</td></tr><tr><td>Figure Name</td><td>Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 105-2-002</td></tr><tr><td></td><td>Community Forum Area CFA10: Dunsmore, Wendover and Halton</td></tr></table>	Figure Number	LV-01-053	Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 105-2-002		Community Forum Area CFA10: Dunsmore, Wendover and Halton	<div><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 anyway.</p><p><small>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</small></p><p><small>© Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190</small></p><p>Doc Number: C250-ARP-EV-PHO-000-001052-P01</p></div> <p>Date: 17/10/13</p>
Figure Number	LV-01-053									
Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 105-2-002									
	Community Forum Area CFA10: Dunsmore, Wendover and Halton									

Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage



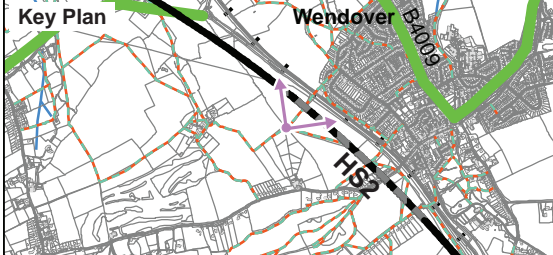

<p>Technical Information Location: Viewpoint 105-3-001: View north-east from the summit of Coombe Hill on the PRoW (Footpath ELL/64).</p> <p>Date taken: 28/03/13 Time taken: 09:47 Focal length: 57.296mm</p> <p>Viewpoint location shown on Map LV-04-037. For key plan legend refer to map series LV-04.</p>	<p>This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.</p>		<table><tr><td>Figure Number</td><td>LV-01-054</td></tr><tr><td>Figure Name</td><td>Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 105-3-001</td></tr><tr><td></td><td>Community Forum Area CFA10: Dunsmore, Wendover and Halton</td></tr></table>	Figure Number	LV-01-054	Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 105-3-001		Community Forum Area CFA10: Dunsmore, Wendover and Halton	<div><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 anyway.</p><p><small>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</small></p><p><small>© Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190</small></p><p>Doc Number: C250-ARP-EV-PHO-000-001053-P01</p><p>Date: 17/10/13</p></div>
Figure Number	LV-01-054									
Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 105-3-001									
	Community Forum Area CFA10: Dunsmore, Wendover and Halton									

Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage



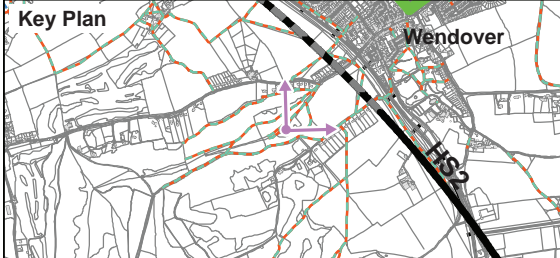

<p>Technical Information Location: Viewpoint 105-3-002: View north-east from the Aylesbury Ring (Footpath WEN/6), west of Wendover.</p> <p>Date taken: 28/03/13 Time taken: 11:27 Focal length: 57.296mm</p> <p>Viewpoint location shown on Map LV-04-037. For key plan legend refer to map series LV-04.</p>	<p>This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.</p>		<table><tr><td>Figure Number</td><td>LV-01-055</td></tr><tr><td>Figure Name</td><td>Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 105-3-002</td></tr><tr><td></td><td>Community Forum Area CFA10: Dunsmore, Wendover and Halton</td></tr></table>	Figure Number	LV-01-055	Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 105-3-002		Community Forum Area CFA10: Dunsmore, Wendover and Halton	<div><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 anyway.</p><p><small>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU</small></p><p><small>© Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190</small></p><p>Doc Number: C250-ARP-EV-PHO-000-001054-P01</p><p>Date: 17/10/13</p></div>
Figure Number	LV-01-055									
Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 105-3-002									
	Community Forum Area CFA10: Dunsmore, Wendover and Halton									

Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage





<p>Technical Information Location: Viewpoint 105-3-003: View east from Bacombe Hill on the PRoW (Footpath WEN/15c).</p> <p>Date taken: 28/02/13 Time taken: 10:15 Focal length: 57.296mm</p> <p>Viewpoint location shown on Map LV-04-037. For key plan legend refer to map series LV-04.</p>	<p>This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.</p>	<p>Key Plan</p> 	<table><tr><td>Figure Number</td><td>LV-01-056</td></tr><tr><td>Figure Name</td><td>Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 105-3-003</td></tr><tr><td></td><td>Community Forum Area CFA10: Dunsmore, Wendover and Halton</td></tr></table>	Figure Number	LV-01-056	Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 105-3-003		Community Forum Area CFA10: Dunsmore, Wendover and Halton	<div><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 anyway.</p><p><small>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190</small></p><p>Doc Number: C250-ARP-EV-PHO-000-001055-P01</p><p>Date: 17/10/13</p></div>
Figure Number	LV-01-056									
Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 105-3-003									
	Community Forum Area CFA10: Dunsmore, Wendover and Halton									

Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage



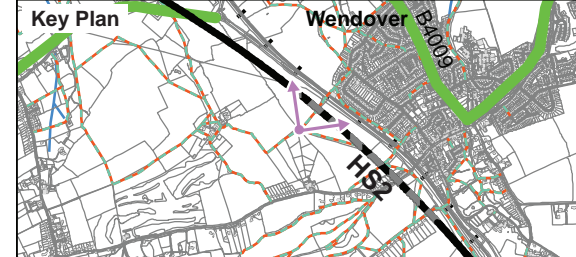

<p>Technical Information Location: Viewpoint 108-2-001: View south-west from dwellings on Nash Lee Lane, Wendover.</p> <p>Date taken: 28/03/13 Time taken: 13:24 Focal length: 57.296mm</p> <p>Viewpoint location shown on Map LV-04-038a. For key plan legend refer to map series LV-04.</p>	<p>This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.</p>	<p>Key Plan</p> 	<table><tr><td>Figure Number</td><td>LV-01-058</td></tr><tr><td>Figure Name</td><td>Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 108-2-001</td></tr><tr><td></td><td>Community Forum Area CFA10: Dunsmore, Wendover and Halton</td></tr></table>	Figure Number	LV-01-058	Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 108-2-001		Community Forum Area CFA10: Dunsmore, Wendover and Halton	<div><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 anyway.</p><p><small>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU</small></p><p><small>© Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190</small></p><p>Doc Number: C250-ARP-EV-PHO-000-001057-P01</p><p>Date: 17/10/13</p></div>
Figure Number	LV-01-058									
Figure Name	Verifiable Photomontage Operation Year 1 (2026) - Winter Viewpoint 108-2-001									
	Community Forum Area CFA10: Dunsmore, Wendover and Halton									

Current baseline (2013)



Peak construction phase - Winter verifiable photomontage





<p>Technical Information Location: Viewpoint 105-2-001: View north from dwellings on Ellesborough Road, Wendover.</p> <p>Date taken: 21/03/13 Time taken: 17:19 Focal length: 57.296mm</p> <p>Viewpoint location shown on Map LV-03-037. For key plan legend refer to map series LV-03.</p>	<p>This verifiable photomontage provides an illustration of how the Proposed Scheme may look during the peak construction phase for this part of the route. The construction methods and siting of construction activities may be subject to change in response to consultation and ongoing design. The extent of land required temporarily to construct the scheme will not extend beyond that shown in the photomontage. Changes in the construction of the Proposed Scheme will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme.</p>		<table><tr><td>Figure Number</td><td>LV-01-190</td></tr><tr><td>Figure Name</td><td>Verifiable Photomontage Peak construction phase - Winter Viewpoint 105-2-001</td></tr><tr><td></td><td>Community Forum Area CFA10: Dunsmore, Wendover and Halton</td></tr></table>	Figure Number	LV-01-190	Figure Name	Verifiable Photomontage Peak construction phase - Winter Viewpoint 105-2-001		Community Forum Area CFA10: Dunsmore, Wendover and Halton	<div><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 anyway.</p><p><small>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</small></p><p><small>© Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190</small></p><p>Doc Number: C250-ARP-EV-PHO-000-001227-P01</p><p>Date: 24/10/13</p></div>
Figure Number	LV-01-190									
Figure Name	Verifiable Photomontage Peak construction phase - Winter Viewpoint 105-2-001									
	Community Forum Area CFA10: Dunsmore, Wendover and Halton									

Current baseline (2013)



Operation Year 15 (2041) - Summer verifiable photomontage



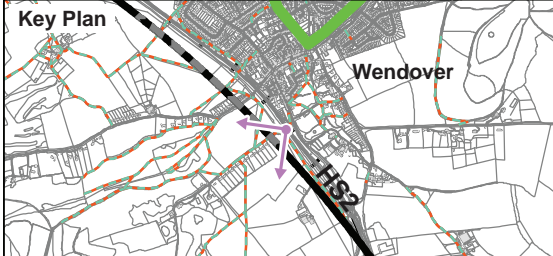

<p>Technical Information Location: Viewpoint 095-3-002: View east from the South Bucks Way PRoW (Bridleway WEN/45), near Cockshoots Wood.</p> <p>Date taken: 28/08/13 Time taken: 15:28 Focal length: 57.296mm</p> <p>Viewpoint location shown on Map LV-04-035b. For key plan legend refer to map series LV-04.</p>	<p>This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2041 (15 years after opening). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as semi-mature trees which have put on 15 years of growth to illustrate how the Proposed Scheme will further integrate into the landscape over time.</p>		<table><tr><td>Figure Number</td><td>LV-01-233</td></tr><tr><td>Figure Name</td><td>Verifiable Photomontage Operation Year 15 (2041) - Summer Viewpoint 095-3-002</td></tr><tr><td></td><td>Community Forum Area CFA10: Dunsmore, Wendover and Halton</td></tr></table>	Figure Number	LV-01-233	Figure Name	Verifiable Photomontage Operation Year 15 (2041) - Summer Viewpoint 095-3-002		Community Forum Area CFA10: Dunsmore, Wendover and Halton	<div><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 anyway.</p><p><small>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</small></p><p><small>© Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190</small></p><p>Doc Number: C250-ARP-EV-PHO-000-001191-P01</p><p>Date: 17/10/13</p></div>
Figure Number	LV-01-233									
Figure Name	Verifiable Photomontage Operation Year 15 (2041) - Summer Viewpoint 095-3-002									
	Community Forum Area CFA10: Dunsmore, Wendover and Halton									

Current baseline (2013)



Operation Year 15 (2041) - Summer verifiable photomontage



<p>Technical Information Location: Viewpoint 104-3-002: View south-west from PRow (Bridleway WEN/14) on Bacombe Lane, Wendover.</p> <p>Date taken: 28/08/13 Time taken: 13:05 Focal length: 57.296mm</p> <p>Viewpoint location shown on Map LV-04-036. For key plan legend refer to map series LV-04.</p>	<p>This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2041 (15 years after opening). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as semi-mature trees which have put on 15 years of growth to illustrate how the Proposed Scheme will further integrate into the landscape over time.</p>		<table><tr><td>Figure Number</td><td>LV-01-235</td></tr><tr><td>Figure Name</td><td>Verifiable Photomontage Operation Year 15 (2041) - Summer Viewpoint 104-3-002</td></tr><tr><td></td><td>Community Forum Area CFA10: Dunsmore, Wendover and Halton</td></tr></table>	Figure Number	LV-01-235	Figure Name	Verifiable Photomontage Operation Year 15 (2041) - Summer Viewpoint 104-3-002		Community Forum Area CFA10: Dunsmore, Wendover and Halton	<div><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 anyway.</p><p><small>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</small></p><p><small>© Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190</small></p><p>Doc Number: C250-ARP-EV-PHO-000-001193-P01</p><p>Date: 17/10/13</p></div>
Figure Number	LV-01-235									
Figure Name	Verifiable Photomontage Operation Year 15 (2041) - Summer Viewpoint 104-3-002									
	Community Forum Area CFA10: Dunsmore, Wendover and Halton									



Technical Information

Location: Aerial visualisation of Wendover Dean Viaduct looking north-east from Durham Farm, Wendover Dean.

Date taken: 21/08/13
Time taken: 12:28
Focal length: 35mm

For key plan legend refer to map series LV-04.

This aerial visualisation provides an illustration of how the Proposed Scheme may look in 2041 (15 years after opening). The design of the Proposed Scheme may be subject to design development in response to consultation. Where new planting is proposed, it has been shown as semi-mature trees which have put on 15 years of growth to illustrate how the Proposed Scheme will further integrate into the landscape over time.

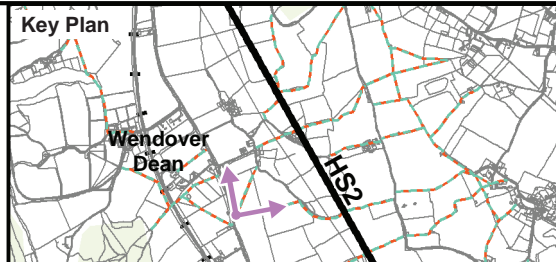



Figure Number	LV-15-003
Figure Name	Wendover Dean Viaduct Aerial Visualisation
Community Forum Area CFA10:	Dunsmore, Wendover and Halton



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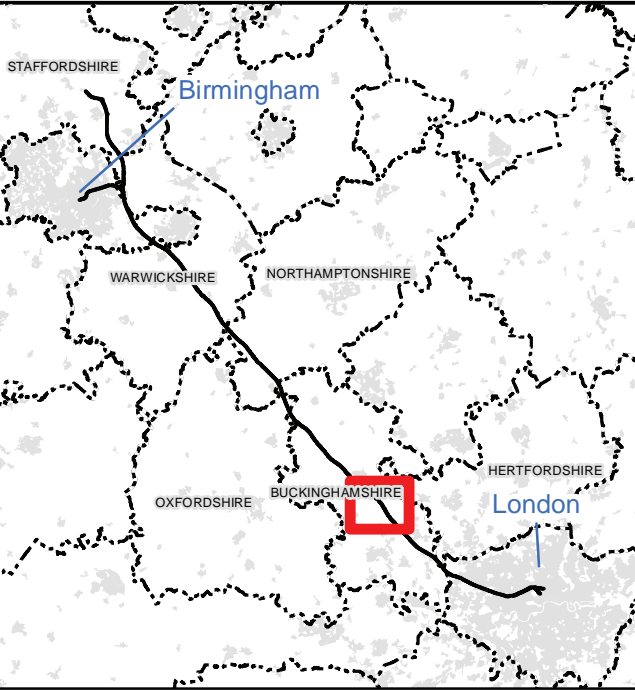
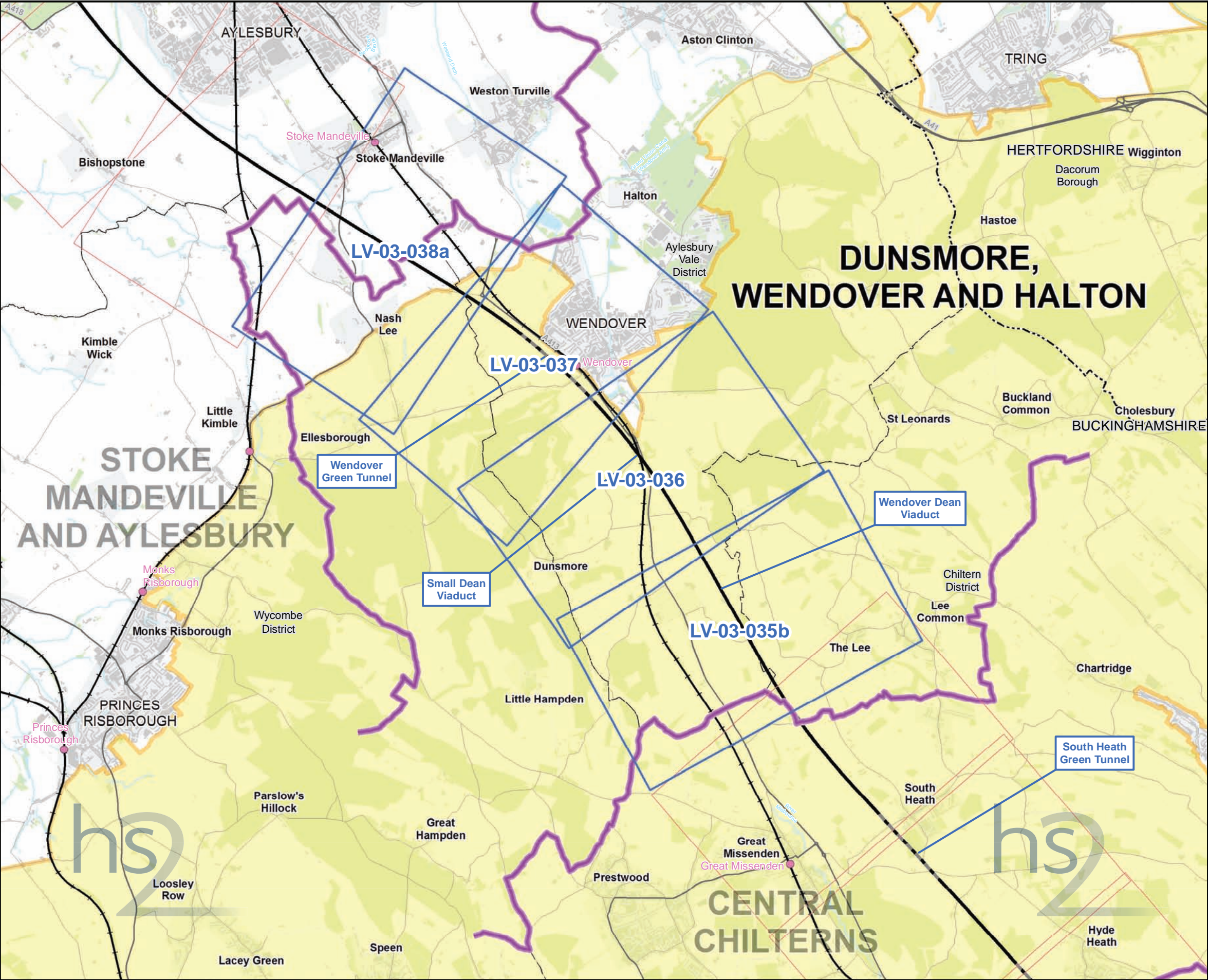
Date: 28/10/13

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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

LV-03 - Construction Phase Significantly Affected Viewpoints

LV-04 - Operational Phase Significantly Affected Viewpoints



Map Series Information:

Maps showing the viewpoint locations from which the Proposed Scheme has been assessed to give rise to significant effects during the construction phase.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community forum
 - Map sheets not included in this community forum
 - Area of Outstanding Natural Beauty (AONB)

Map Number LV-03-INDEX-CFA10

Map Name
Index Map of:
Construction Phase Significantly
Affected Viewpoints

Community Forum Area CFA10:
Dunsmore, Wendover and Halton



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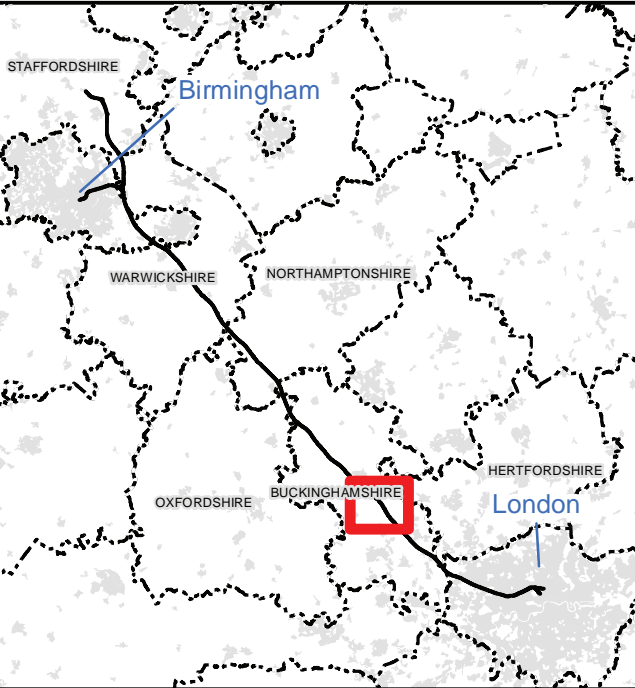
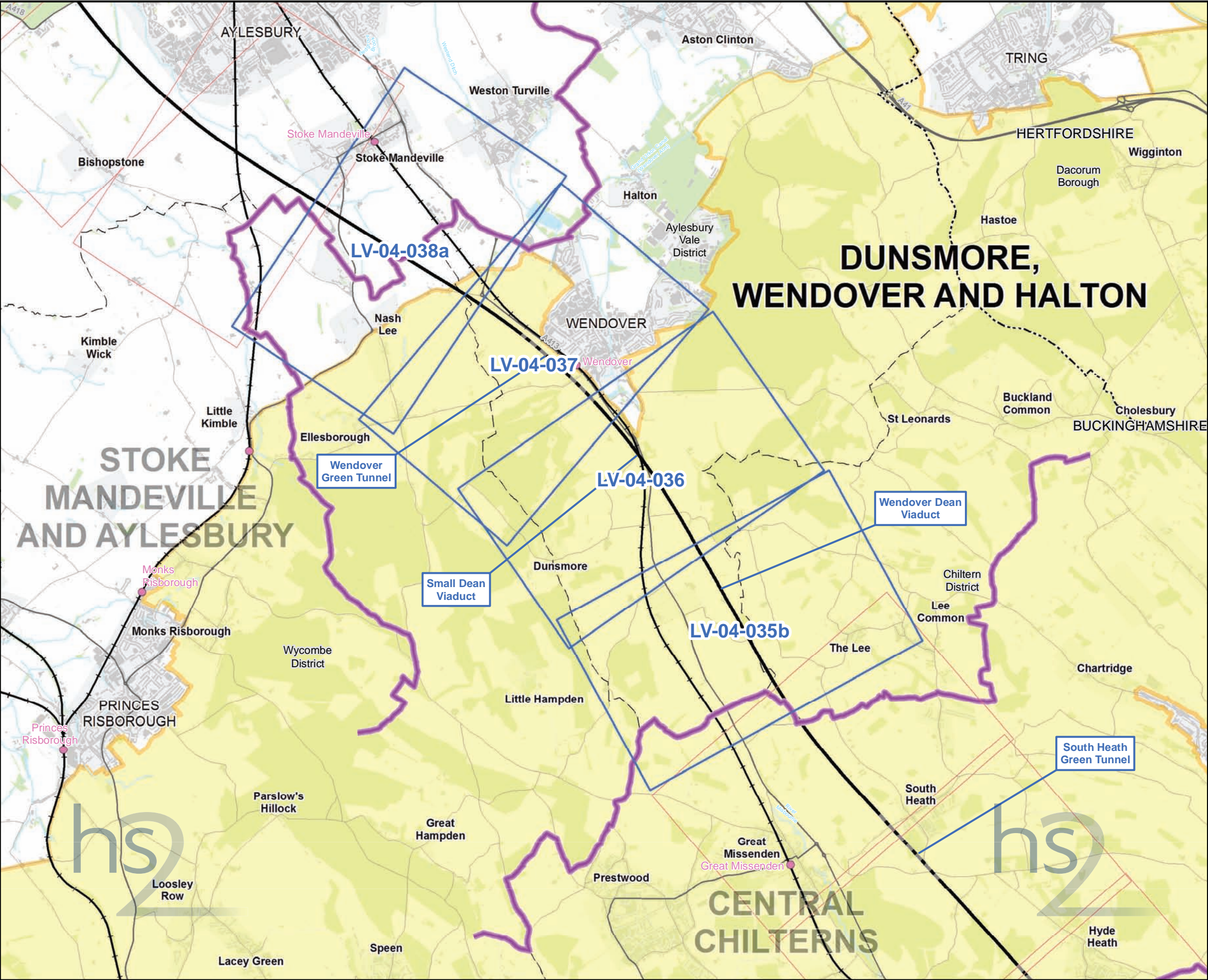
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Date: 30/10/13



Map Series Information:

Maps showing the viewpoint locations from which the Proposed Scheme has been assessed to give rise to significant effects during the operational phase.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community forum
 - Map sheets not included in this community forum
 - Area of Outstanding Natural Beauty (AONB)

Map Number LV-04-INDEX-CFA10

Map Name Index Map of:
Operational Phase Significantly
Affected Viewpoints

Community Forum Area CFA10:
Dunsmore, Wendover and Halton

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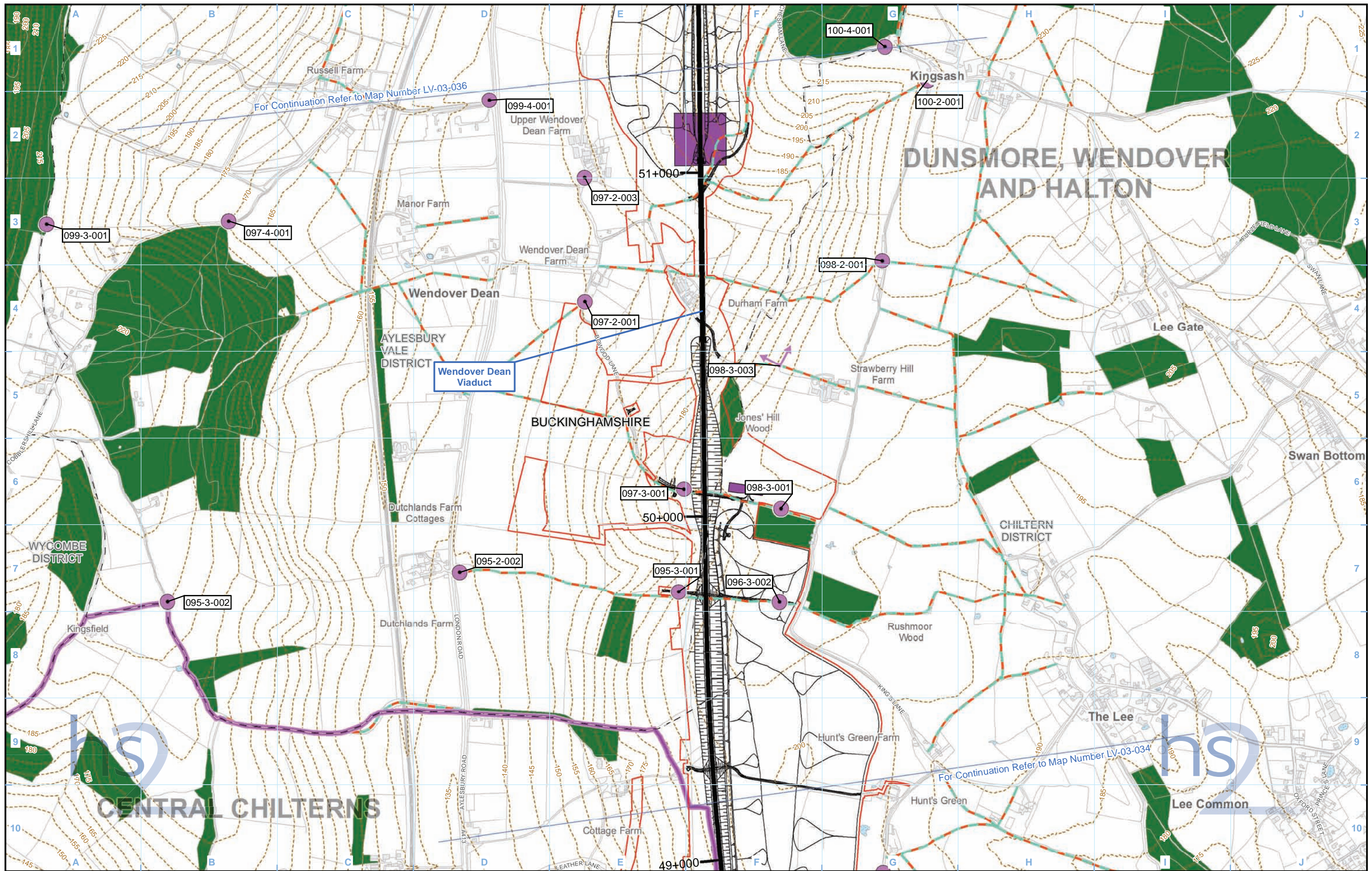
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Metres

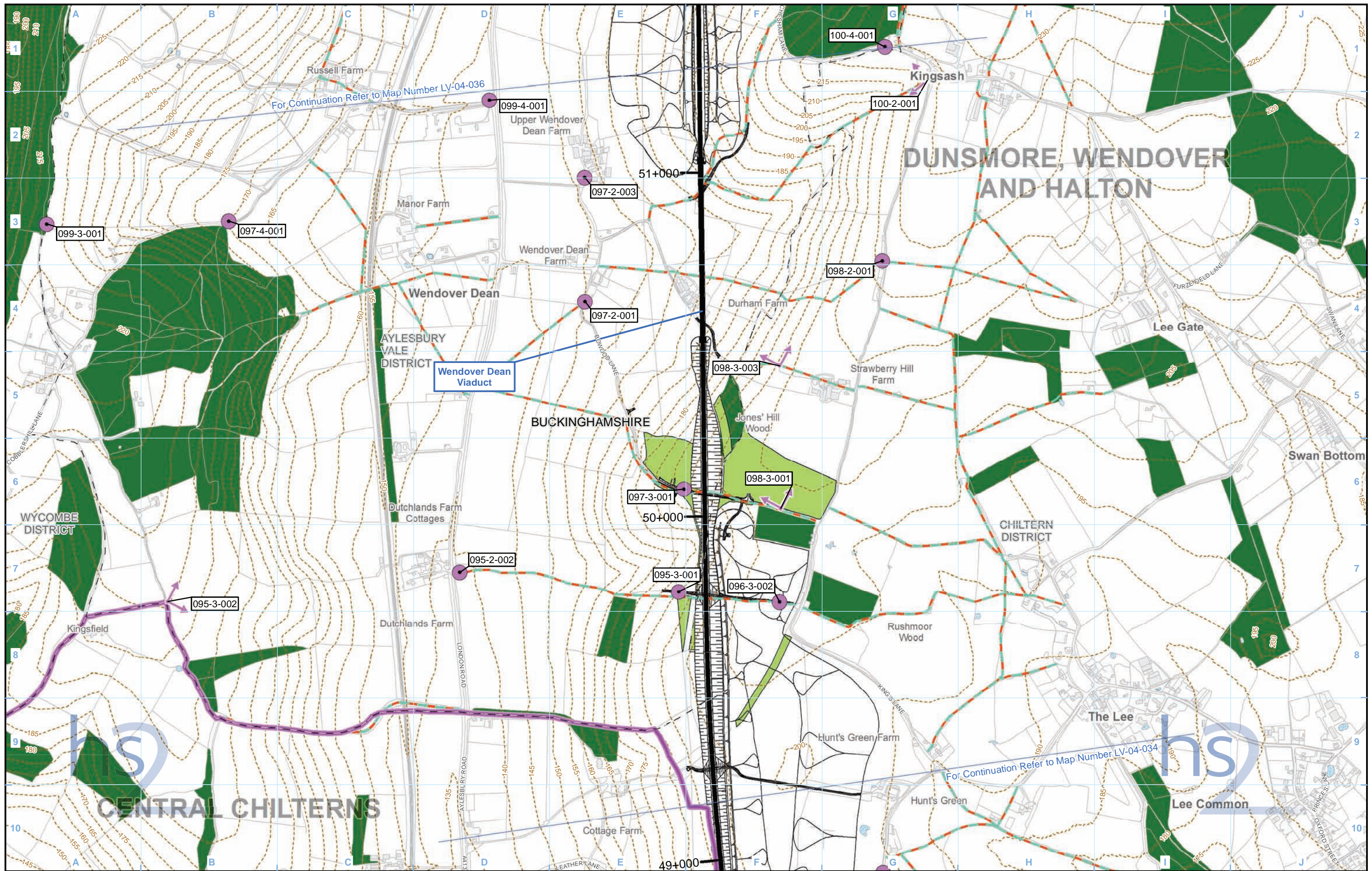
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Date: 30/10/13



Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary County boundary	District/Borough boundary Public Rights of Way 5m contours Water body Watercourse Existing woodland and tree belts Construction compounds	Significantly affected viewpoint Photomontage location Viewpoint number [001-1-001]	Engineering earthworks: Embankment Cutting Non engineering earthworks: Embankment Cutting
Map Number LV-03-035b Map Name Construction Phase Significantly Affected Viewpoints Community Forum Area CFA10: Dunsmore, Wendover and Halton			
		 Scale at A3: 1:10,000 0 100 200 300 400 Metres Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C252-ETM-EV-MAP-020-001649-P07.00 Date: 30/10/13	



Legend

Route in tunnel	Public Rights of Way	Significantly affected viewpoint	Engineering earthworks:
Route on surface	5m contours	Photomontage location	Embankment
Depot, station, headhouse or portal building	Water body	Viewpoint number	Cutting
Community forum boundary	Watercourse		Non engineering earthworks:
County boundary	Existing woodland and tree belts		Embankment
District/Borough boundary	Proposed tree planting		Cutting

Map Number: LV-04-035b

Map Name: Operational Phase Significantly Affected Viewpoints

Community Forum Area CFA10: Dunsmore, Wendover and Halton

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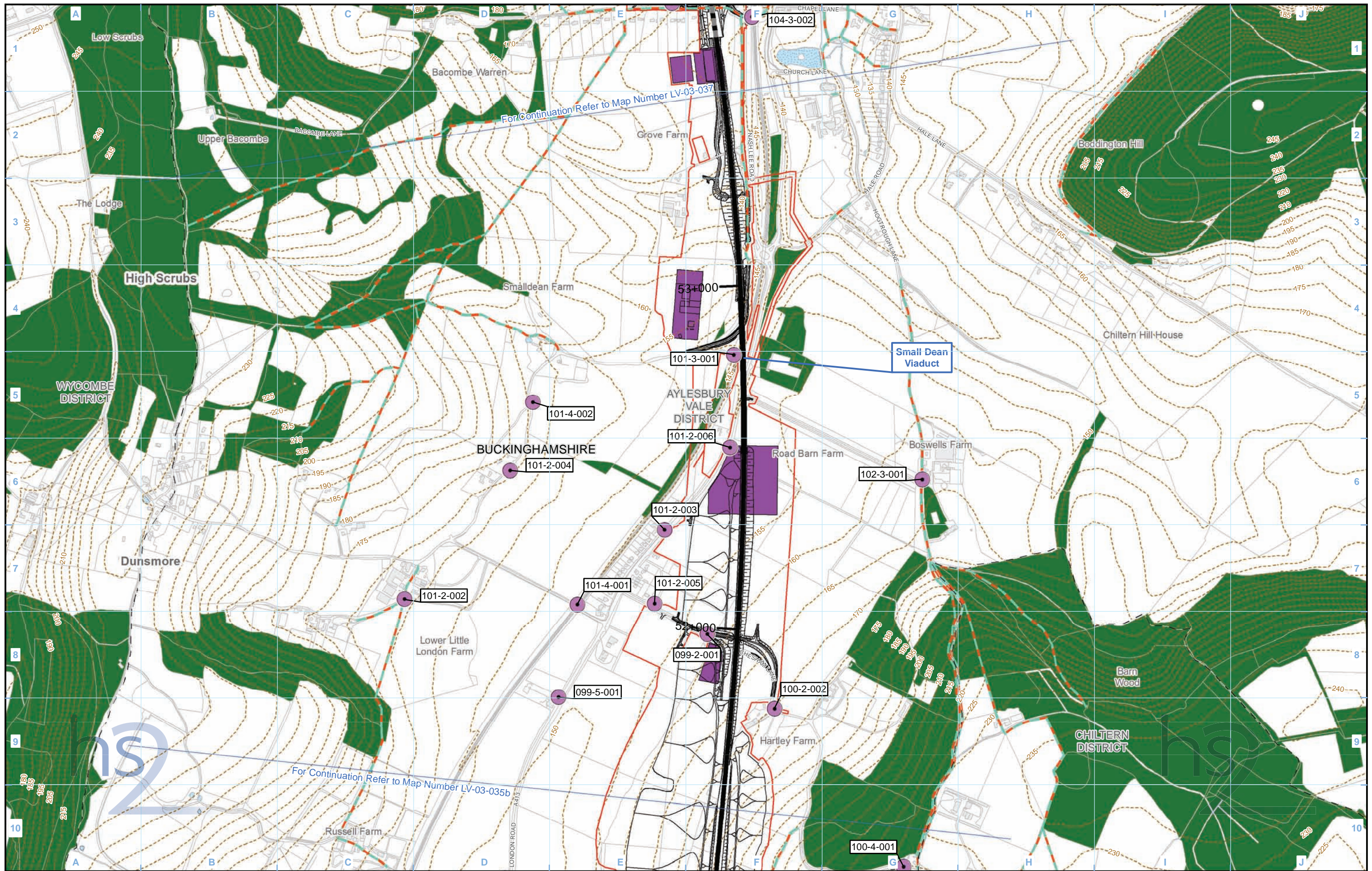
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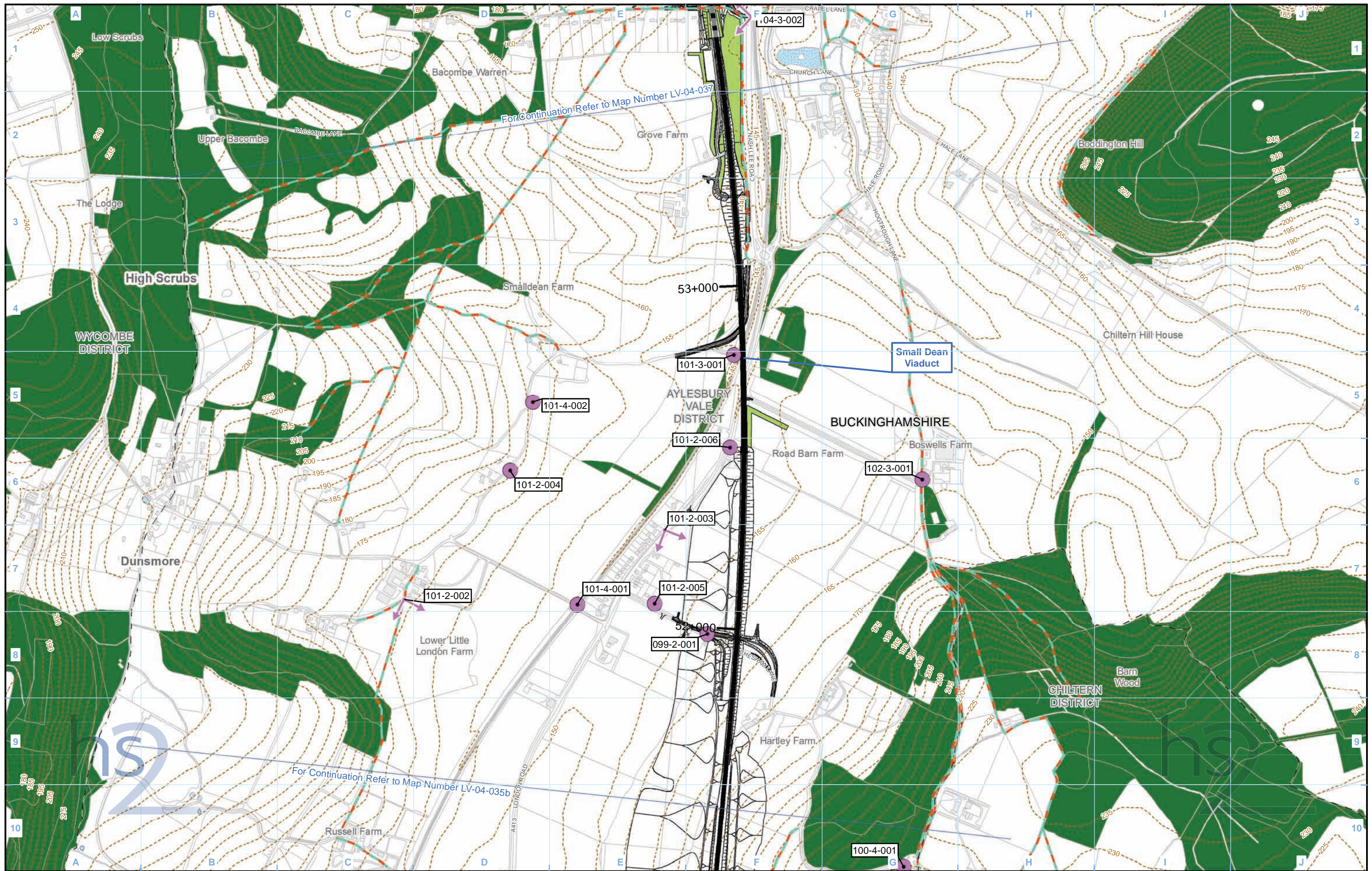
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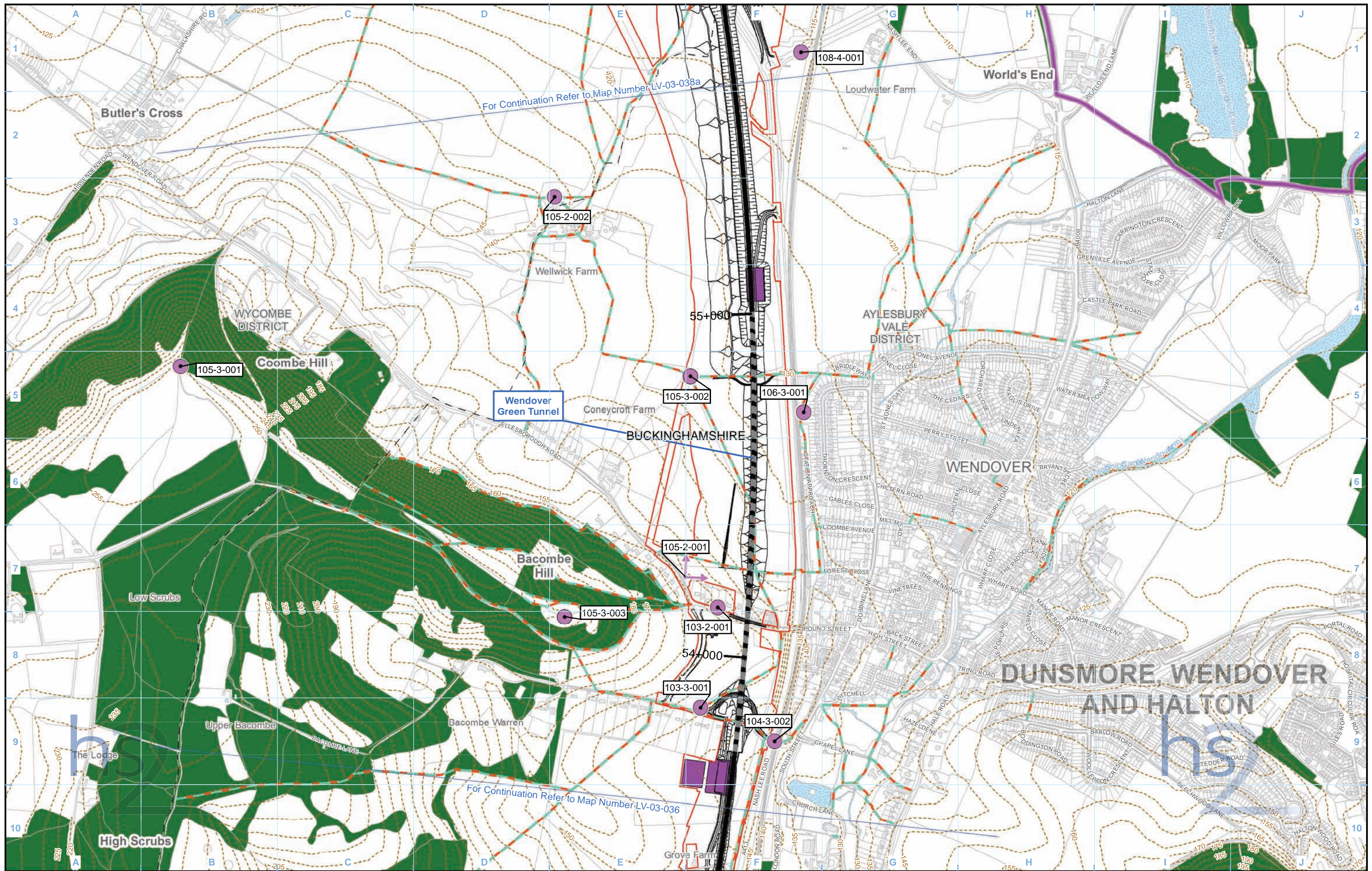
0 100 200 300 400 Metres



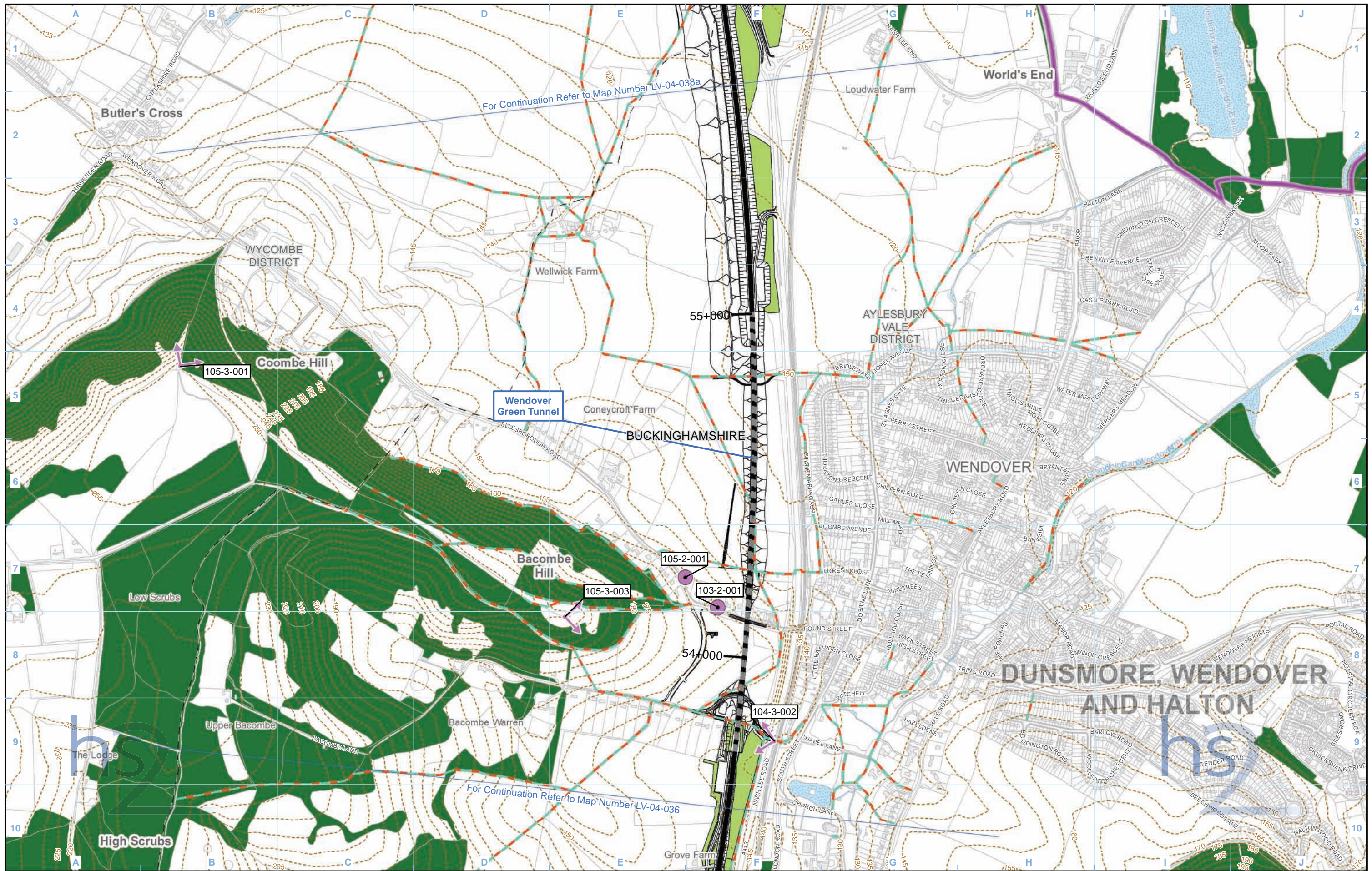
Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary County boundary	District/Borough boundary Public Rights of Way 5m contours Water body Watercourse Existing woodland and tree belts Construction compounds	Significantly affected viewpoint Photomontage location Viewpoint number 001-1-001	Engineering earthworks: Embankment Cutting Non engineering earthworks: Embankment Cutting
Map Number LV-03-036 Map Name Construction Phase Significantly Affected Viewpoints Community Forum Area CFA10: Dunsmore, Wendover and Halton			
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Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Community forum boundary County boundary District/Borough boundary Public Rights of Way 5m contours Water body Watercourse Existing woodland and tree belts Proposed tree planting Significantly affected viewpoint Photomontage location Viewpoint number Engineering earthworks: Embankment Cutting Non engineering earthworks: Embankment Cutting	Map Number LV-04-036 Map Name Operational Phase Significantly Affected Viewpoints Community Forum Area CFA10: Dunsmore, Wendover and Halton	 Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C252-ETM-EV-MAP-020-001698-P07.00 Date: 30/10/13 Scale at A3: 1:10,000 0 100 200 300 400 Metres
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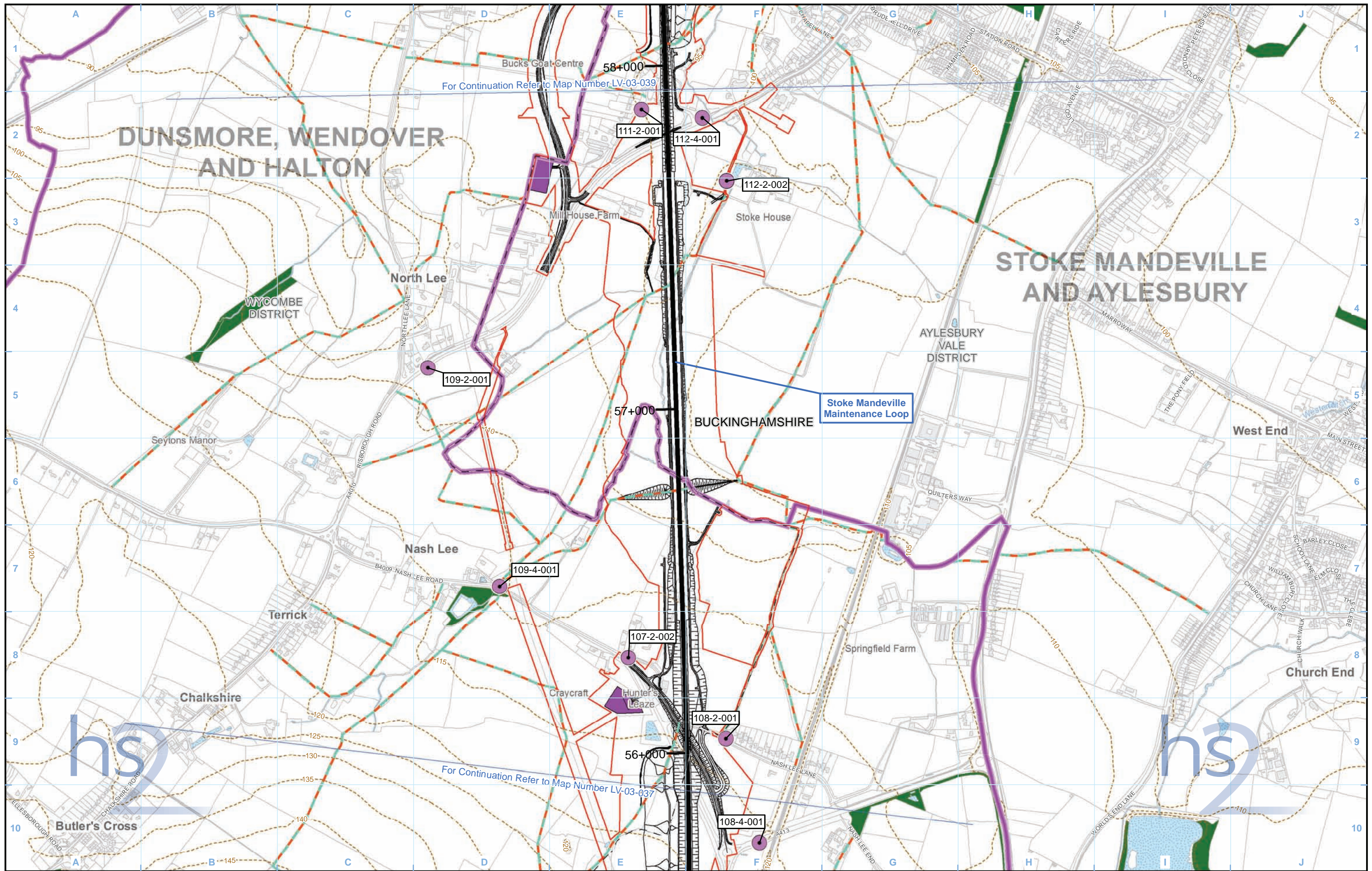


Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary County boundary	District/Borough boundary Public Rights of Way 5m contours Water body Watercourse Existing woodland and tree belts Construction compounds	Significantly affected viewpoint Photomontage location Viewpoint number 001-1-001	Engineering earthworks: Embankment Cutting Non engineering earthworks: Embankment Cutting
Map Number LV-03-037 Map Name Construction Phase Significantly Affected Viewpoints Community Forum Area CFA10: Dunsmore, Wendover and Halton			
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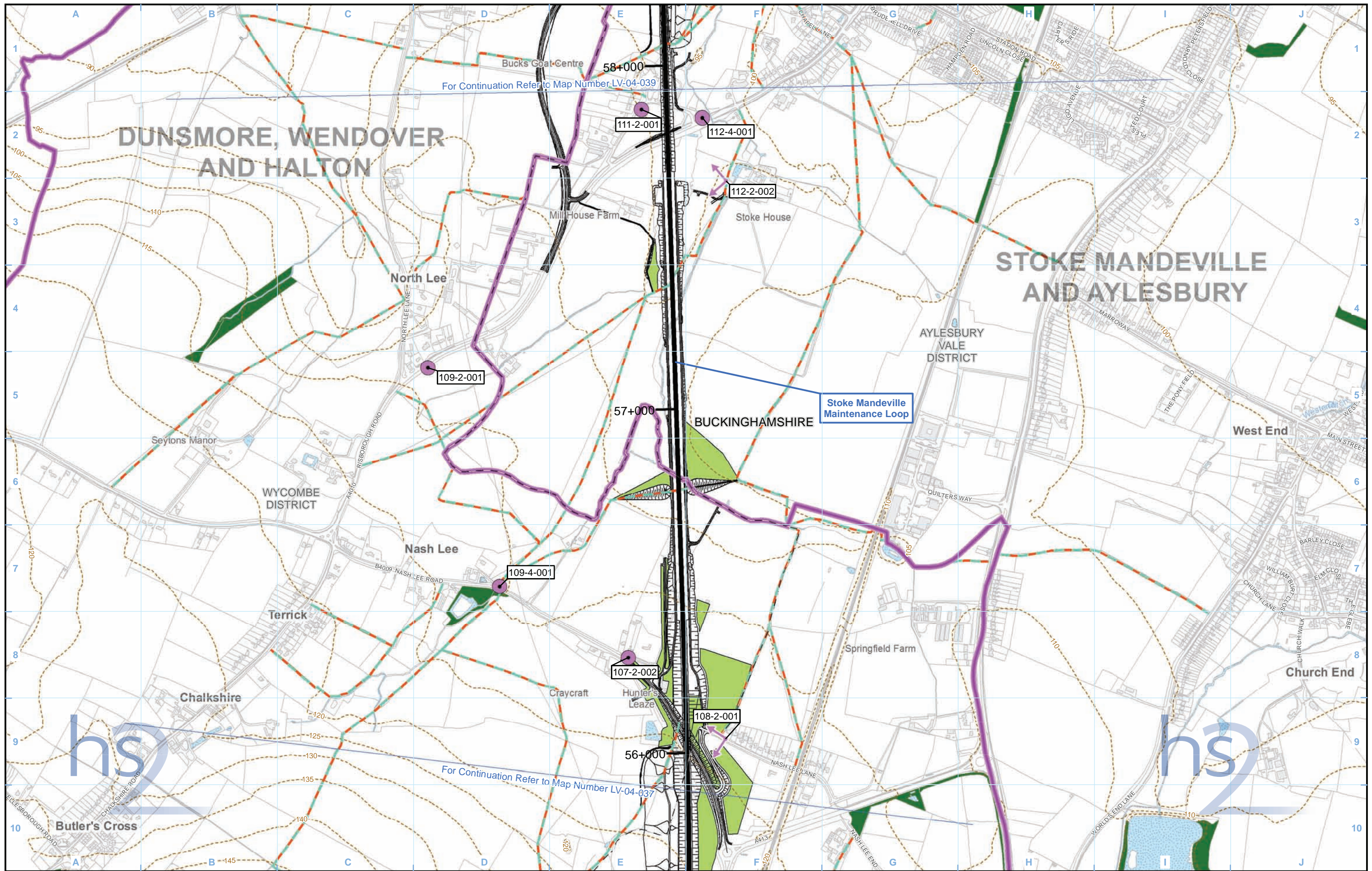


Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Community forum boundary County boundary District/Borough boundary	Public Rights of Way 5m contours Water body Watercourse Existing woodland and tree belts Proposed tree planting	Significantly affected viewpoint Photomontage location Viewpoint number	Engineering earthworks: Embankment Cutting Non engineering earthworks: Embankment Cutting
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Map Number LV-04-037	 Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C252-ETM-EV-MAP-020-001699-P07.00
Map Name Operational Phase Significantly Affected Viewpoints	
Community Forum Area CFA10: Dunsmore, Wendover and Halton	
Scale at A3: 1:10,000 Date: 30/10/13	



Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary County boundary District/Borough boundary Public Rights of Way 5m contours Water body Watercourse Existing woodland and tree belts Construction compounds Significantly affected viewpoint Photomontage location Viewpoint number Engineering earthworks: Embankment Cutting Non engineering earthworks: Embankment Cutting	Map Number LV-03-038a Map Name Construction Phase Significantly Affected Viewpoints Community Forum Area CFA10: Dunsmore, Wendover and Halton	hs2 Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C252-ETM-EV-MAP-020-001652-P07.00 Date: 30/10/13 Scale at A3: 1:10,000 0 100 200 300 400 Metres
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Legend		Engineering earthworks:	
Route in tunnel	Public Rights of Way	Significantly affected viewpoint	Embankment
Route on surface	5m contours	Photomontage location	Cutting
Depot, station, headhouse or portal building	Water body	Viewpoint number	Non engineering earthworks:
Community forum boundary	Watercourse		Embankment
County boundary	Existing woodland and tree belts		Cutting
District/Borough boundary	Proposed tree planting		

Map Number	LV-04-038a
Map Name	Operational Phase Significantly Affected Viewpoints
Community Forum Area CFA10: Dunsmore, Wendover and Halton	

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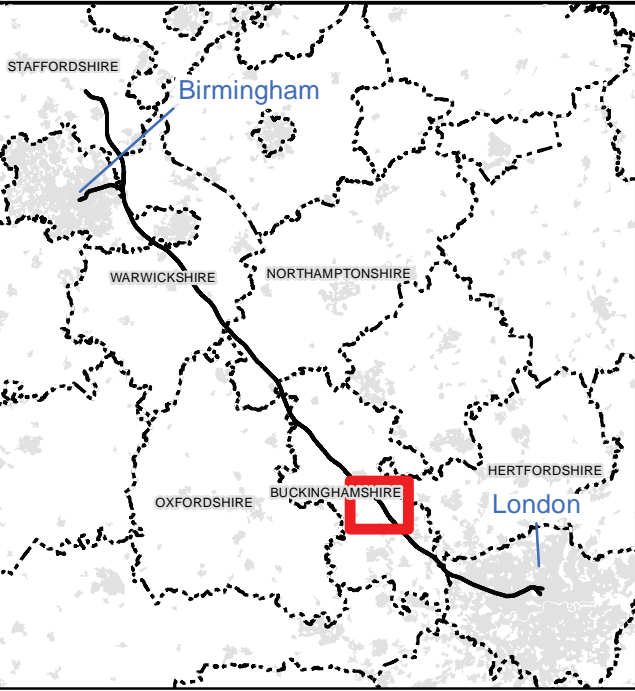
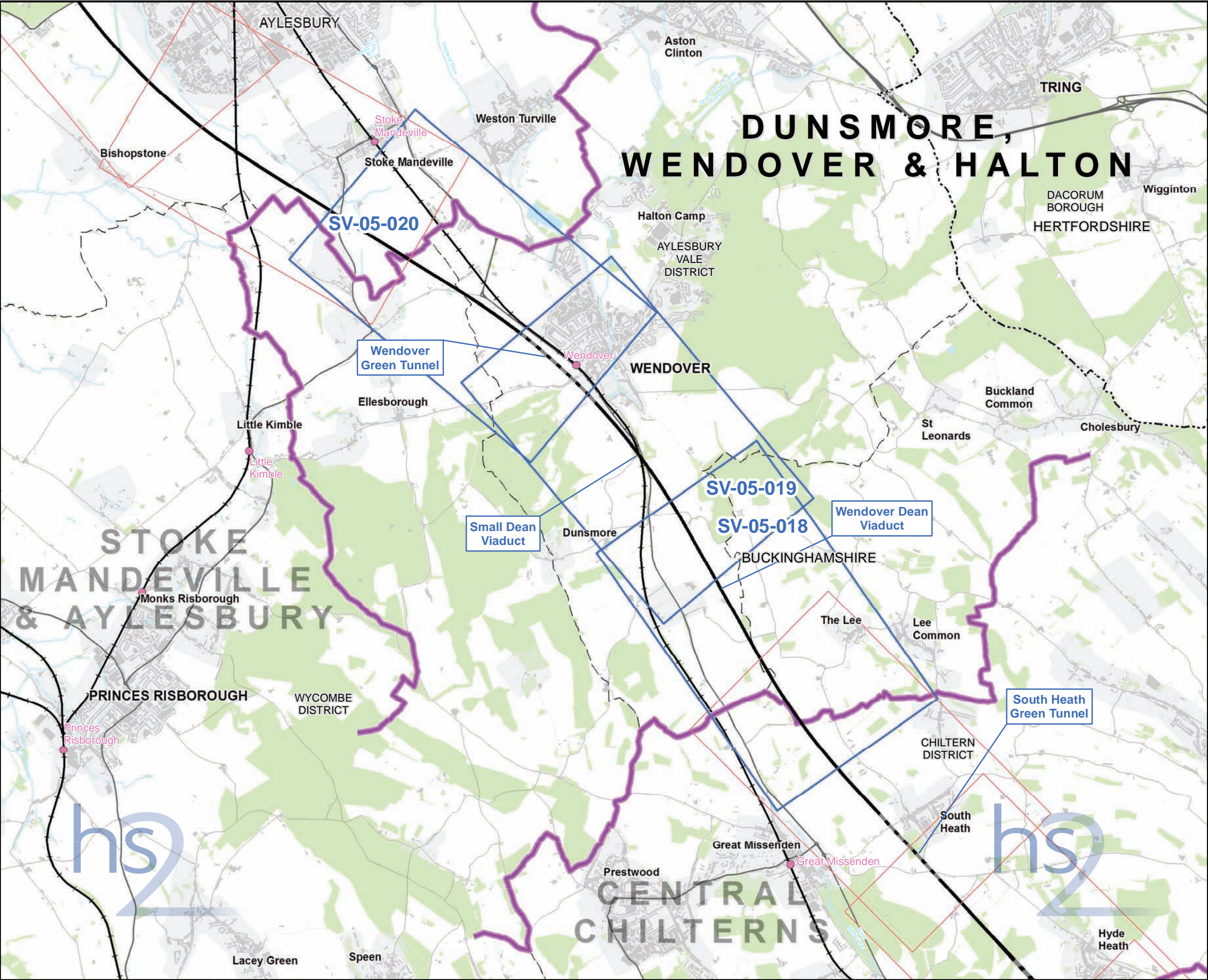
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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

SV-05 - Operational Sound and Vibration Impacts and Likely Significant Effects



Map Series Information:

SV-05 presents the direct operational noise impacts and likely significant effects of the scheme.

The SV-05 figure series necessarily contains a large amount of information relating to the operational noise and vibration assessment. It is designed to communicate visually the assessment process from the prediction of impacts to the determination of likely residual significant effects. The corresponding text is included in Vol2. Key items on the figure series include:

- the Proposed Scheme (the proposed railway alignments and surrounding associated earthworks/roads);
- blue and green lines representing the wayside airborne noise mitigation measures included in the Proposed Scheme;
- the study areas, which indicate the areas within which direct operational sound and vibration impacts of the scheme have been quantitatively assessed;
- the calculated scheme direct impacts, displayed as colour-coded buildings, and symbols representing buildings that would potentially qualify for noise insulation;
- sound contours representing sound produced by the new railway (displayed in a simpler manner than on SV-01 in order not to obscure other features on the figure series); and
- labels indicating where the likely residual direct noise and/or vibration significant effects have been identified.

A more detailed explanation of each legend item included on the figures can be found in the data dictionary.

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

Main Map Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Community forum boundary

Existing railway station

County boundary

District/Borough boundary

Map sheets included in this community forum

Map sheets not included in this community forum

Map Number

SV-05-INDEX-CFA10

Map Name

Index Map of:
Operational Noise and Vibration Impacts
and Likely Significant Effects

Community Forum Area CFA10:
Dunsmore, Wendover & Halton

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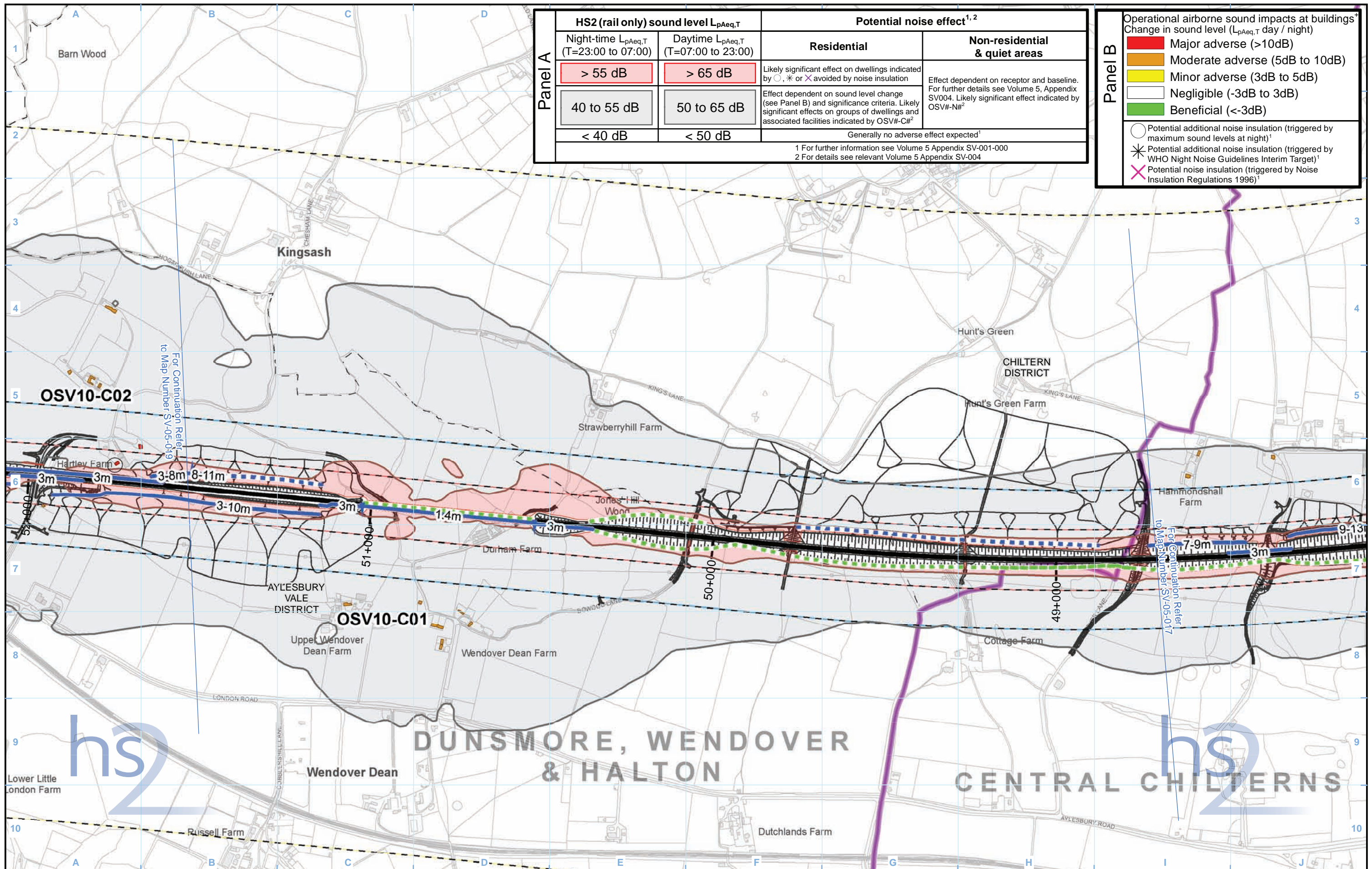
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Metres

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Date: 29/10/13



Panel A	HS2 (rail only) sound level $L_{pAeq,T}$		Potential noise effect ^{1,2}	
	Night-time $L_{pAeq,T}$ (T=23:00 to 07:00)	Daytime $L_{pAeq,T}$ (T=07:00 to 23:00)	Residential	Non-residential & quiet areas
	> 55 dB	> 65 dB	Likely significant effect on dwellings indicated by ○, ✱ or ✕ avoided by noise insulation	Effect dependent on receptor and baseline. For further details see Volume 5, Appendix SV004. Likely significant effect indicated by OSV#-N# ²
	40 to 55 dB	50 to 65 dB	Effect dependent on sound level change (see Panel B) and significance criteria. Likely significant effects on groups of dwellings and associated facilities indicated by OSV#-C# ²	
	< 40 dB	< 50 dB	Generally no adverse effect expected ¹	

1 For further information see Volume 5 Appendix SV-001-000
2 For details see relevant Volume 5 Appendix SV-004

Panel B	Operational airborne sound impacts at buildings* Change in sound level ($L_{pAeq,T}$ day / night)	
	Major adverse (>10dB)	
	Moderate adverse (5dB to 10dB)	
	Minor adverse (3dB to 5dB)	
	Negligible (-3dB to 3dB)	

○ Potential additional noise insulation (triggered by maximum sound levels at night)¹
✱ Potential additional noise insulation (triggered by WHO Night Noise Guidelines Interim Target)¹
✕ Potential noise insulation (triggered by Noise Insulation Regulations 1996)¹

Legend - General features

- Route in bored tunnel
- Route in green tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community forum boundary
- District/Borough boundary
- County boundary

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

* Residential buildings only
* Labelled with total barrier height above rail level

Legend - Sound related features

- Committed developments (labelled as CFA#/#)
- Envisaged mitigation to avoid / reduce significant noise effects:
 - Landscaping and/or fence barriers*
 - Engineering e.g. cuttings (green tunnels separately marked)
- Envisaged measures further reducing noise effects:
 - Other environmental e.g. landscaping
 - Engineering e.g. cuttings

- Airborne sound study area
- Ground-borne sound & vibration study area (residential and non-residential)
- Ground-borne sound & vibration study area (highly sensitive non-residential)
- Minor ground-borne noise or vibration impact*

Map Number: SV-05-018

Map Name: Operational Noise and Vibration Impacts and Likely Significant Effects

Community Forum Area CFA10: Dunsmore, Wendover & Halton

hs2

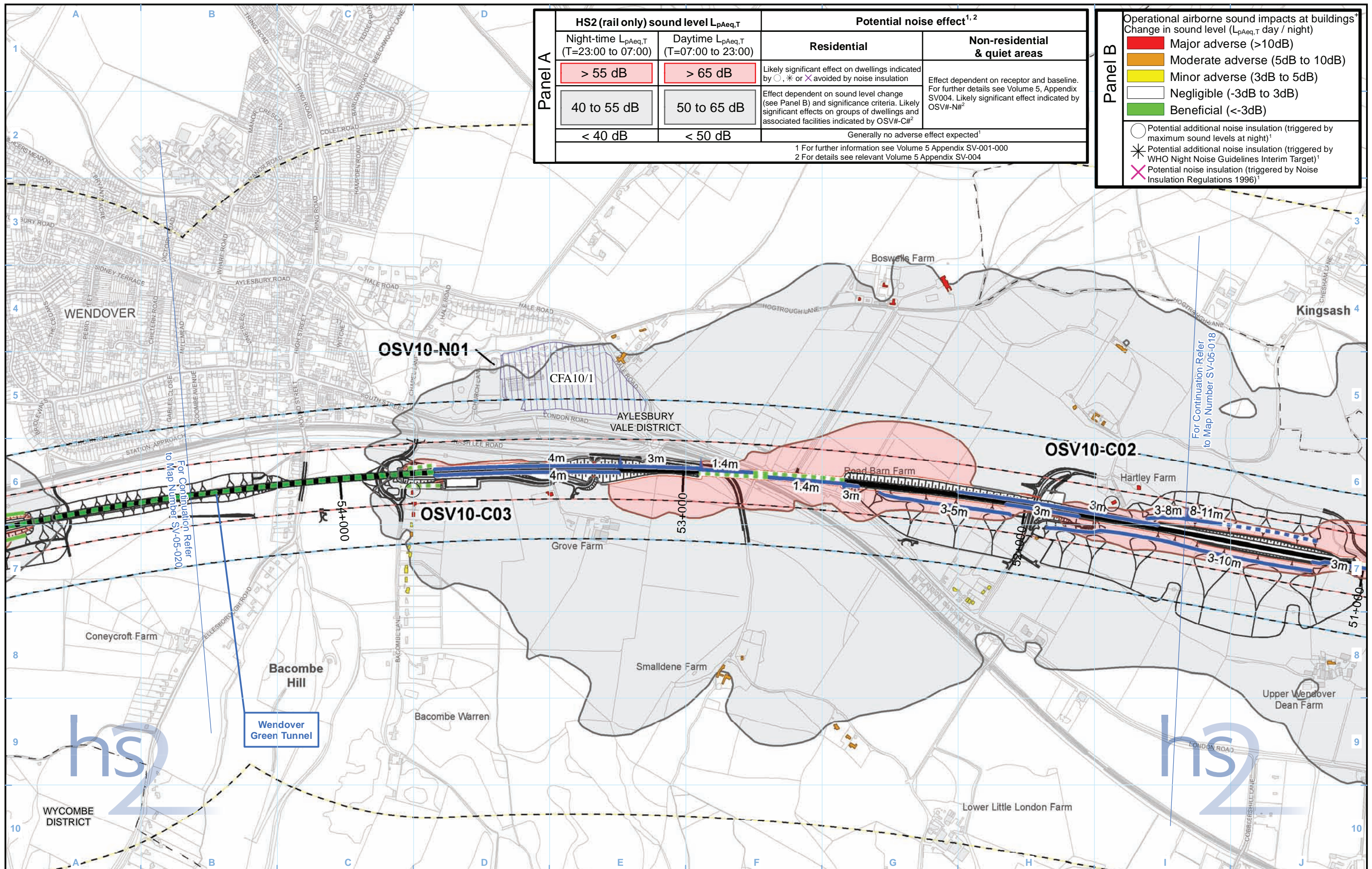
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Scale at A3: 1:10,000

Date: 29/10/13



Panel A	HS2 (rail only) sound level $L_{pAeq,T}$		Potential noise effect ^{1, 2}	
	Night-time $L_{pAeq,T}$ (T=23:00 to 07:00)	Daytime $L_{pAeq,T}$ (T=07:00 to 23:00)	Residential	Non-residential & quiet areas
	> 55 dB	> 65 dB	Likely significant effect on dwellings indicated by ○, ✱ or ✕ avoided by noise insulation	Effect dependent on receptor and baseline. For further details see Volume 5, Appendix SV004. Likely significant effect indicated by OSV#-N# ²
	40 to 55 dB	50 to 65 dB	Effect dependent on sound level change (see Panel B) and significance criteria. Likely significant effects on groups of dwellings and associated facilities indicated by OSV#-C# ²	
	< 40 dB	< 50 dB	Generally no adverse effect expected ¹	
	1 For further information see Volume 5 Appendix SV-001-000 2 For details see relevant Volume 5 Appendix SV-004			

Panel B	Operational airborne sound impacts at buildings* Change in sound level ($L_{pAeq,T}$ day / night)	
	Major adverse (>10dB)	
	Moderate adverse (5dB to 10dB)	
	Minor adverse (3dB to 5dB)	
	Negligible (-3dB to 3dB)	
		Beneficial (<-3dB)
		○ Potential additional noise insulation (triggered by maximum sound levels at night) ¹
		✱ Potential additional noise insulation (triggered by WHO Night Noise Guidelines Interim Target) ¹
		✕ Potential noise insulation (triggered by Noise Insulation Regulations 1996) ¹

Legend - General features

- Route in bored tunnel
- Route in green tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community forum boundary
- District/Borough boundary
- County boundary

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Legend - Sound related features

- Committed developments (labelled as CFA#/#)
- Envisaged mitigation to avoid / reduce significant noise effects:
 - Landscaping and/or fence barriers*
 - Engineering e.g. cuttings (green tunnels separately marked)
- Envisaged measures further reducing noise effects:
 - Other environmental e.g. landscaping
 - Engineering e.g. cuttings

Airborne sound study area

- Ground-borne sound & vibration study area (residential and non-residential)
- Ground-borne sound & vibration study area (highly sensitive non-residential)
- Minor ground-borne noise or vibration impact*

Map Number

SV-05-019

Map Name

Operational Noise and Vibration Impacts and Likely Significant Effects

Community Forum Area CFA10:
Dunsmore, Wendover & Halton

hs2

Registered in England. Registration number 06791686.
Registered office: Eland House, Bressenden Place,
London SW1E 5DU.

Scale at A3: 1:10,000

0 100 200 300 400
Metres

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