

High Speed Rail (Crewe – Manchester)

**Supplementary Environmental Statement 1 and
Additional Provision 1 Environmental Statement**

Volume 2: Community Area Map Book

MA01: Hough to Walley's Green

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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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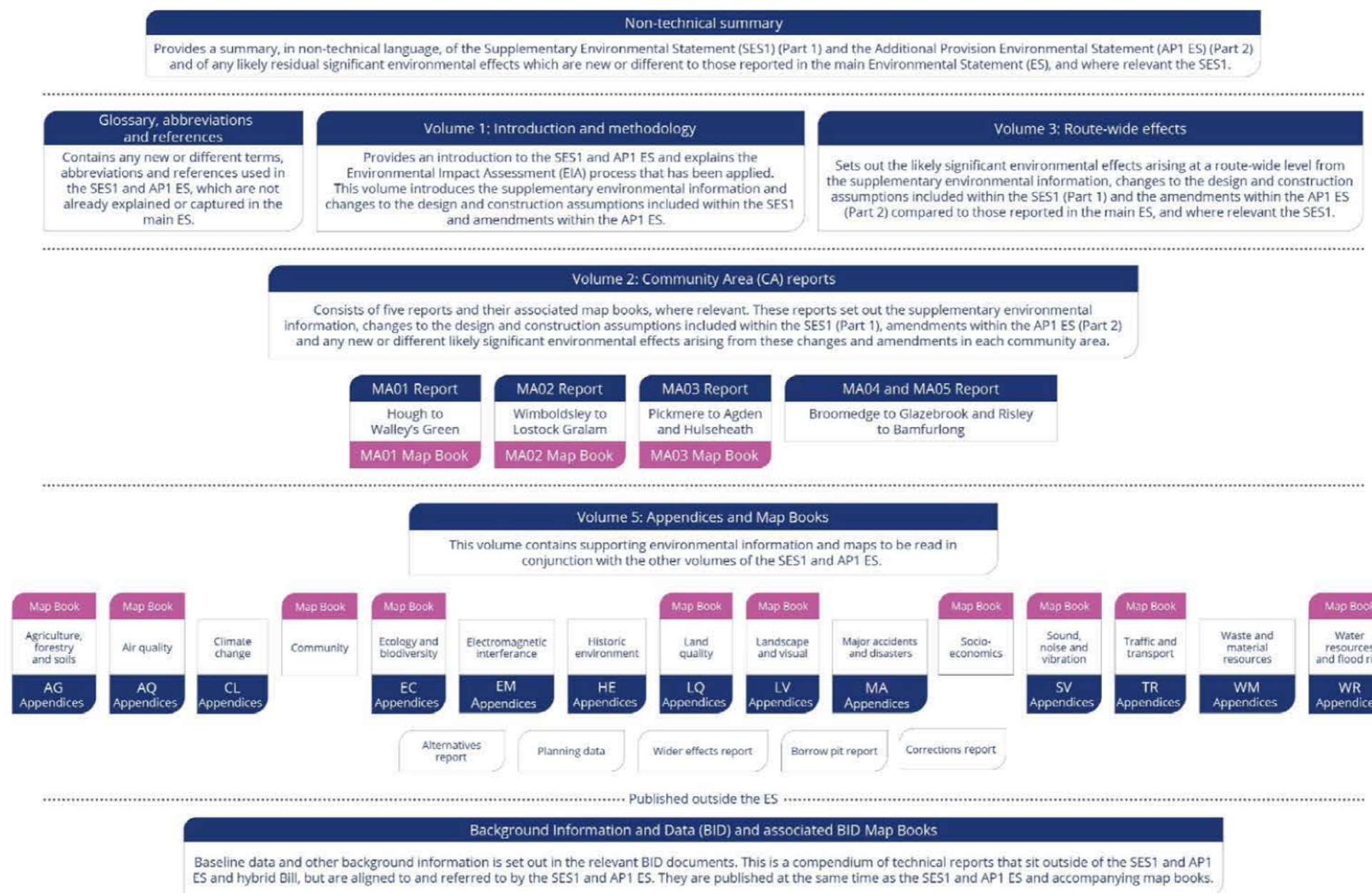
Data dictionary and definitions

Map series name	Map series description
Map series description	
CT-05 - Construction Phase	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 2018 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 shown on the plans is reflective of 2018 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/or operation for significantly affected Viewpoints.
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 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. A more detailed explanation of each legend item included is on the figures and can be found in the data dictionary.

Mapping explanatory notes

Structure of the Supplementary Environmental Statement 1 and the Additional Provision 1 Environmental Statement

This map book is part of the suite of documents that make up the Supplementary Environmental Statement 1 (SES1) and the Additional Provision 1 Environmental Statement (AP1 ES) for the High Speed Rail (Crewe – Manchester) scheme. The SES1 and the AP1 ES are separate documents; however, they are bound together and presented in a number of volumes shown in Figure 1.



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 SES1 and AP1 ES contain Ordnance Survey (OS) data. HS2 Ltd use the most up to date mapping available, where possible, supplied by the OS and as such, we cannot be held responsible for any inaccuracies within this data. As part of our licence conditions, all digital maps carry a watermark.

Chainage

Most of the maps presented as part of the SES1 and AP1 ES have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XXX+YYY, e.g. 192+000 or 239+500.

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

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

Map sheet layout

Each map in Volume 2 is presented twice, with the main ES map (In Parliament - Session 2021 - 2022) on the left-hand page and the SES1 and the AP1 ES map on the right. For the CT-05 and CT-06 map series, the SES1 and the AP1 ES is shown with different coloured hatching, annotated with labels, which highlights the areas of change. The coloured text box provides a brief description of the design change and amendment, and gives the SES1 and the AP1 ES reference number. In some instances where the effect covers a large area, a box without hatching but with a label, is shown. Only maps which have been amended as a result of the SES1 and the AP1 ES are included within the map books. Other design changes which are within the existing limits of the Bill and do not result in new or different likely significant effects are also shown on the maps, but are not indicated by hatching.

Each Volume 5 map is annotated to describe the change to a receptor or significant effect, and to give the SES1 and the AP1 ES reference number. For more detailed information about the SES1 and the AP1 ES annotation, refer to the map series legend. Only maps which have been amended as a result of the SES1 and the AP1 ES are included within the map book.

Map orientation

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

The exception to this, are map series LV-00, LV-02, LV-07 and LV-08, which present the alignment running from bottom to top of the page. This is to allow more of the modelled outputs to be shown at the appropriate map scale. In this instance, the direction of travel to London would be to the bottom of the page, and Manchester to the top.

Further details on the approach to mapping is set out in Section 6 of Volume 1 of the SES1 and AP1 ES.

Map books

In total, there are 14 map books included in the SES1 and AP1 ES Volume 2 and Volume 5. A list of the map book titles and map series is provided below for reference.

Map book title (map series)	Name
Volume 2: Map book – MA01: Hough to Walley's Green (CT-05, CT-06, CT-10, LV-01, LV-03, LV-04, SV-05)	Volume 5: Map book – Land quality (LQ-01)
Volume 2: Map book – MA02: Wimboldsley to Lostock Gralam (CT-05, CT-06, CT-10, LV-01, LV-03, LV-04, SV-05)	Volume 5: Map book – Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)
Volume 2: Map book – MA03: Pickmere to Agden and Hulseheath (CT-05, CT-06, CT-10, LV-01, LV-03, LV-04, SV-05)	Volume 5: Map book – Planning Data/Committed Development (CT-13)
Volume 5: Map book – Agriculture (AG-01, AG-04)	Volume 5: Map book – Socio-economics (SE-01)
Volume 5: Map book – Air quality (AQ-01)	Volume 5: Map book – Sound, noise and vibration (SV-02, SV-03, SV-08, SV-09)
Volume 5: Map book – Community (CM-01)	Volume 5: Map book – Traffic and transport (TR-03, TR-04, TR-08)
Volume 5: Map book – Ecology and biodiversity (EC-01)	Volume 5: Map book – Water resources and flood risk (WR-02)

High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement

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 gives indication of the topography, showing valleys and hills, and the steepness of slopes. Spaced at intervals of 5m.	High Speed Two (HS2) Ltd	
Additional land required at current AP	Areas of land required at the current AP, additional to that defined by the boundary of the maximum possible extent of construction works required to build HS2 based on the design at Hybrid Bill stage. 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 unless for air rights it is otherwise stated in the relevant Volume 2 report. It also encompasses associated highway, access, drainage and utility works.	High Speed Two (HS2) Ltd	
Ancient Woodland	Ancient Woodland is land that has had continuous woodland cover since at least 1600AD. Natural England maintain an inventory of ancient woodlands. On the basis of the heritage review undertaken by HS2 Ltd, Natural England has confirmed that a number of woodlands of potential relevance to the assessment will be added to the AWI. These have additionally been mapped.	Natural England	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2021 © Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
Ancient Woodland Inventory Sites (AWIS)	Ancient Woodland is land that has had continuous woodland cover since at least 1600AD. Natural England maintain an inventory of ancient woodlands.	Natural England	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2021.
Balancing pond	Part of a drainage system that is used to temporarily store, and thereby attenuate, the flow of surface water runoff.	High Speed Two (HS2) Ltd	
Borrow pit	Areas excavated to provide material for construction purposes.	High Speed Two (HS2) Ltd	
Committed developments - SV only	This informs the assessment of the future baseline. A development consent or allocation that has full or outline planning permission, or is allocated in an adopted development plan.	High Speed Two (HS2) Ltd	
Community area boundary	The Environmental Statement has been split into sections called Community Areas.	High Speed Two (HS2) Ltd	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.

Legend features	Definition	Source	Copyright
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 publicly 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.	Cheshire East Council Cheshire Historic Environment Record Cheshire West and Chester Council	© Cheshire East Council. © Cheshire Historic Environment Record. © Cheshire West and Chester Council.
Construction compounds	A strategic construction hub for core project management (engineering, planning and construction delivery), commercial and administrative staff associated with the construction of the Proposed Scheme. These compounds will include an area for equipment and materials storage, as well as providing main welfare facilities for construction staff, with some compounds also providing overnight sleeping accommodation for construction staff.	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. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
Depot, station, headhouse or portal building	Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures.	High Speed Two (HS2) Ltd	
District/Borough boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
Ecological mitigation pond (indicative only)	A pond for ecological mitigation. Locations shown are indicative.	High Speed Two (HS2) Ltd	
Engineering earthworks	Engineering (structural) earthworks which include railway embankments, cuttings 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	

Legend features	Definition	Source	Copyright
Envisaged features further reducing noise effects	Other environmental features e.g. landscaping: These lines represent environmental mitigation features provided for reasons 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). 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.	High Speed Two (HS2) Ltd	
Envisaged mitigation to avoid / reduce significant noise effects	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. Engineering e.g. cuttings: 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.	High Speed Two (HS2) Ltd	
Existing buildings	Extent of buildings derived from Ordnance Survey MasterMap data.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
Existing inland water	See Water body	See Water body	See Water body
Existing public right of way	A highway where the public has the right to walk; and, depending on its class, use for other modes of travel. It can be a footpath (used for walking only), a bridleway (used for walking, riding a horse and cycling), a restricted byway (as a bridleway, but use by non-motorised vehicles also permitted) or a byway that is open to all traffic (include motor vehicles).	See Public Rights of Way	
Existing watercourse	See Watercourse.	See Watercourse.	See Watercourse.
Existing woodland	See Woodland.	See Woodland.	

Legend features	Definition	Source	Copyright
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	A grassed area.	High Speed Two (HS2) Ltd	
Grassland habitat creation	An area of grassland habitat creation.	High Speed Two (HS2) Ltd	
Hedgerow	Hedgerow.	High Speed Two (HS2) Ltd	
HS2 access	Access to HS2 infrastructure such as electricity substations, balancing ponds and maintenance access points to the railway.	High Speed Two (HS2) Ltd	
Land no longer required at current AP/SES	Areas of land no longer required at the current AP/SES as compared to that defined by the boundary of the maximum possible extent of construction works required to build HS2 based on the design at Hybrid Bill stage. 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	
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	
Land potentially required for mitigation planting	Land potentially required for mitigation planting.	High Speed Two (HS2) Ltd	
Landscape earthworks	Landscape earthworks to provide permanent landscape, visual or acoustic mitigation	High Speed Two (HS2) Ltd	
Landscape mitigation planting (scrub / woodland)	An area of landscape mitigation planting (scrub / woodland).	High Speed Two (HS2) Ltd	
Listed buildings: Grade I Grade II* Grade II	Buildings and structures in England of special architectural or historic interest. The Listed Building data consists of approximately 375,000 standing structures. The information was obtained in digital form from Historic England. The data is subject to continuous review and regularly updated as new structures are designated and positional accuracy improves.	Historic England	© Historic England 2021. Contains Ordnance Survey data © Crown copyright and database right 2021 The Historic England GIS Data contained in this material was obtained on 21 October 2021. The most publicly available up to date Historic England GIS Data can be obtained from HistoricEngland.org.uk .

Legend features	Definition	Source	Copyright
Local Nature Reserve (LNR)	A Local Nature Reserve (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. Contains Ordnance Survey data © Crown copyright and database right 2019.
Local placement	Local placement: Land already required for construction of the scheme to be used for the permanent placement of surplus excavated materials, which will subsequently be restored for agricultural use.	High Speed Two (HS2) Ltd	
Local Wildlife Sites (LWS)	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. They are local non-statutory nature conservation sites. They were formerly referred to as County Wildlife Sites.	Cheshire Biological Group Cheshire East Council Cheshire West and Chester Council Cheshire Wildlife Trust	© Cheshire Biological Group. © Cheshire East Council. © Cheshire West and Chester Council. © Cheshire Wildlife Trust.
LpAFmax exceeds 60dB façade	Assessment locations where the predicted value of LpAFmax is 60 dB or greater having applied a façade correction of +2.5 dB to the predicted free field value.	High Speed Two (HS2) Ltd	
Main construction compound	A strategic construction hub for core project management , commercial and administrative staff associated with the construction of the Proposed Scheme. These compounds will include an area for equipment and materials storage, as well as providing main welfare facilities for construction staff.	High Speed Two (HS2) Ltd	
Major utility works	Utilities which may be diverted, or have their height or depth altered, where their current alignment, either above or below ground.	High Speed Two (HS2) Ltd	
Major utility works - removed	Utilities to be removed to enable construction of the Proposed Scheme.	High Speed Two (HS2) Ltd	
National Nature Reserve (NNR)	Designated and non-designated nature reserves managed by local authorities, The Wildlife Trusts and private landowners.	Natural England	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2021.
New ditches	New ditches.	High Speed Two (HS2) Ltd	
New, diverted or realigned public right of way	New, realigned or diverted public rights of way (PRoW).	High Speed Two (HS2) Ltd	
Noise fence barrier	A barrier to reduce unwanted sound.	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
Noise Important Areas defined in national noise action plans (Defra 2014)	The Environmental Noise (England) Regulations 2006 (SI 2006/2238) required Defra, as the Competent Authority, to implement the Environmental Noise Directive in England, which requires amongst other things, the adoption of Action Plans, based upon the noise exposure assessment results. The noise action plan(s) "apply in particular to the most important areas as established by the strategic noise maps". These identified areas are referred to as noise important areas.	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 noise impacts at residential 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 SV-001-00000). Panel B on SV02/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	
Potential additional noise insulation (triggered by maximum sound levels at night)	This represents dwellings which would potentially be provided with noise insulation due maximum sound levels from the Proposed Scheme (further information regarding assessment criteria can be found in Volume 5 Appendix SV-001-00000).	High Speed Two (HS2) Ltd	
Potential additional noise insulation (triggered by WHO Night Noise Guidelines Interim Target)	This represents dwellings which would potentially be provided with noise insulation due to noise from the Proposed Scheme exceeding the World Health Organization (WHO) night noise guidelines interim target (further information regarding assessment criteria can be found in Volume 5 Appendix SV-001-00000).	High Speed Two (HS2) Ltd	
Potential noise insulation (triggered by Noise Insulation Regulations 1996)	This represents dwellings which would potentially qualify for noise insulation under the Noise Insulation (Railways and Other Guided Transport Systems) Regulations 1996 (further information regarding assessment criteria can be found in Volume 5 Appendix SV-001-00000).	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	Outdoor areas, other than highways, accessible to the public in towns and cities.	High Speed Two (HS2) Ltd	
Public right of way closure	Public rights of way that will be closed due to construction of the scheme	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
Public Rights of Way (PRoW)	Public rights of way are highways which can be used for the following purposes: - 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.	Cheshire East council Cheshire West council	© Cheshire East council. © Cheshire West council.
Pumping station	Site for pumping water.	High Speed Two (HS2) Ltd	
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, lineside access paths and cable routes for electrification and communication systems.	High Speed Two (HS2) Ltd	
Railway systems compounds	Represents railway systems compounds which facilitate installation, testing and commissioning of the railway systems, including track, overhead line equipment, communications and signalling equipment, and traction power supply.	High Speed Two (HS2) Ltd	
Railway systems site	Site of power supply, train control and/or telecommunications for the operational railway.	High Speed Two (HS2) Ltd	
Ramsar Site - Wetland of International Importance	A Ramsar Site is the land listed as a Wetland of International Importance under the Convention on Wetlands of International Importance Especially as Waterfowl Habitat (the Ramsar Convention) 1971. Data supplied has the status of "Listed".	Natural England	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2021.
Registered park and garden	Parks and Gardens of special historic interest. Supplied by Historic England. 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) improvements.	Historic England	© Historic England 2021. Contains Ordnance Survey data © Crown copyright and database right 2021 The Historic England GIS Data contained in this material was obtained on 21 October 2021. The most publicly available up to date Historic England GIS Data can be obtained from HistoricEngland.org.uk .
Replacement Community Facility	Area of land for the provision of a replacement community facility, such as a playground, community centre or activity centre, whilst construction works are in progress.	High Speed Two (HS2) Ltd	
Replacement floodplain storage area	An area of low-lying land designed to temporarily fill with flood water to replace an area of existing floodplain lost due to development.	High Speed Two (HS2) Ltd	
Returned to suitable development use	An area to be levelled and protected by hoarding, which will be available for return to suitable development use following construction of the Proposed Scheme.	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
Route in bored tunnel Route in green tunnel	Represents the proposed route of HS2, split into route in bored tunnel and route in green tunnel sections.	High Speed Two (HS2) Ltd	
Route in tunnel	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Satellite construction compound	A compound that is smaller in size than the main compounds. Satellite compounds provide office accommodation for limited numbers of staff involved in the construction of the Proposed Scheme. Welfare facilities for staff are also provided.	High Speed Two (HS2) Ltd	
Scheduled monument (CT-10)	Nationally significant heritage assets protected by the Ancient Monuments and Archaeological Areas Act 1979. 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.	Historic England	© Historic England 2021. Contains Ordnance Survey data © Crown copyright and database right 2021. The Historic England GIS Data contained in this material was obtained on 21 October 2021. The most publicly available up to date Historic England GIS Data can be obtained from HistoricEngland.org.uk .
Significantly affected photomontage	This dataset shows the locations of photomontages from which the schemes visual impact has been assessed as significant during either construction or operation.	High Speed Two (HS2) Ltd	
Significantly affected viewpoint	This dataset shows the locations of the visual receptors from which the schemes visual impact has been assessed and shows whether or not the impact is significant or non-significant during construction and operation.	High Speed Two (HS2) Ltd	
Significantly affected viewpoint or photomontage number	This dataset shows the locations of the visual receptors from which the schemes visual impact has been assessed and shows whether or not the impact is significant or non-significant during construction and operation.	High Speed Two (HS2) Ltd	
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. Contains Ordnance Survey data. © Crown copyright and database right 2021.
Sound contours	The sound levels from the Proposed Scheme (expressed as LpAeq,T and representing sound from the new railway only) are presented as contours lines, which represent equal sound levels. Further details regarding contour values are provided on the SV-02, SV-05, SV-08 and SV-09 map series.	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
Special Area of Conservation (SAC)	A Special Area of Conservation (SAC) is the land designated under Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora.	Natural England	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2021.
Special Protection Area (SPA)	Special Protection Areas (SPAs) are strictly protected sites classified in accordance with Article 4 of the EC Birds Directive, which came into force in April 1979. They are classified for rare and vulnerable birds (as listed on Annex I of the Directive), and for regularly occurring migratory species.	Natural England	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2021.
Storage / prefabrication / laydown areas	An area used for prefabrication and/or the temporary storage of construction equipment and supplies.	High Speed Two (HS2) Ltd	
System railheads	A site at locations along the route with connections to the National Rail network. They will be used as the delivery location for bulk rail-borne materials, such as ballast, rails and sleepers.	High Speed Two (HS2) Ltd	
Temporary material stockpile	An area where materials excavated during construction of the Proposed Scheme will be stored temporarily before being reused, and managing movement of excavated materials during construction.	High Speed Two (HS2) Ltd	
Temporary public right of way closure	Indicative temporary closures to public rights of way as a result of construction of the scheme.	High Speed Two (HS2) Ltd	
Temporary public right of way diversion / realignment	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	
Temporary replacement community facility	An area where materials excavated during construction of the Proposed Scheme will be stored temporarily before being reused, and managing movement of excavated materials during construction	High Speed Two (HS2) Ltd	
Temporary workers accommodation	Temporary overnight accommodation for workers during the construction period.	High Speed Two (HS2) Ltd	
Tunnel portal	The footprint of a tunnel portal.	High Speed Two (HS2) Ltd	
Tunnels external extent	The external excavated extent of each tunnel bore	High Speed Two (HS2) Ltd	
Water body	Any mass of water having definite hydrological, physical, chemical and biological characteristics.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
Watercourse	Any channel through which water flows, can be natural or manmade. They are split into two categories (main rivers or ordinary watercourses) in England and Wales for regulation purposes.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
Watercourse diversion	A route of a watercourse, where either the start or the finish point changes due to modification, which results in changes to the flow regime within a discrete section of channel.	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
Wetland habitat creation	An area of wetland habitat creation.	High Speed Two (HS2) Ltd	
Woodland	Woodland areas derived from Ordnance Survey MasterMap data.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
Woodland habitat creation	An area of woodland habitat creation.	High Speed Two (HS2) Ltd	

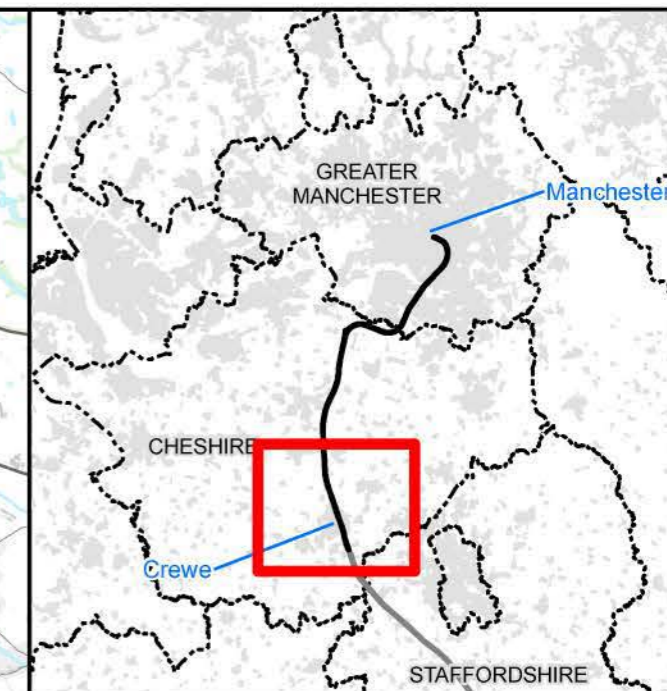
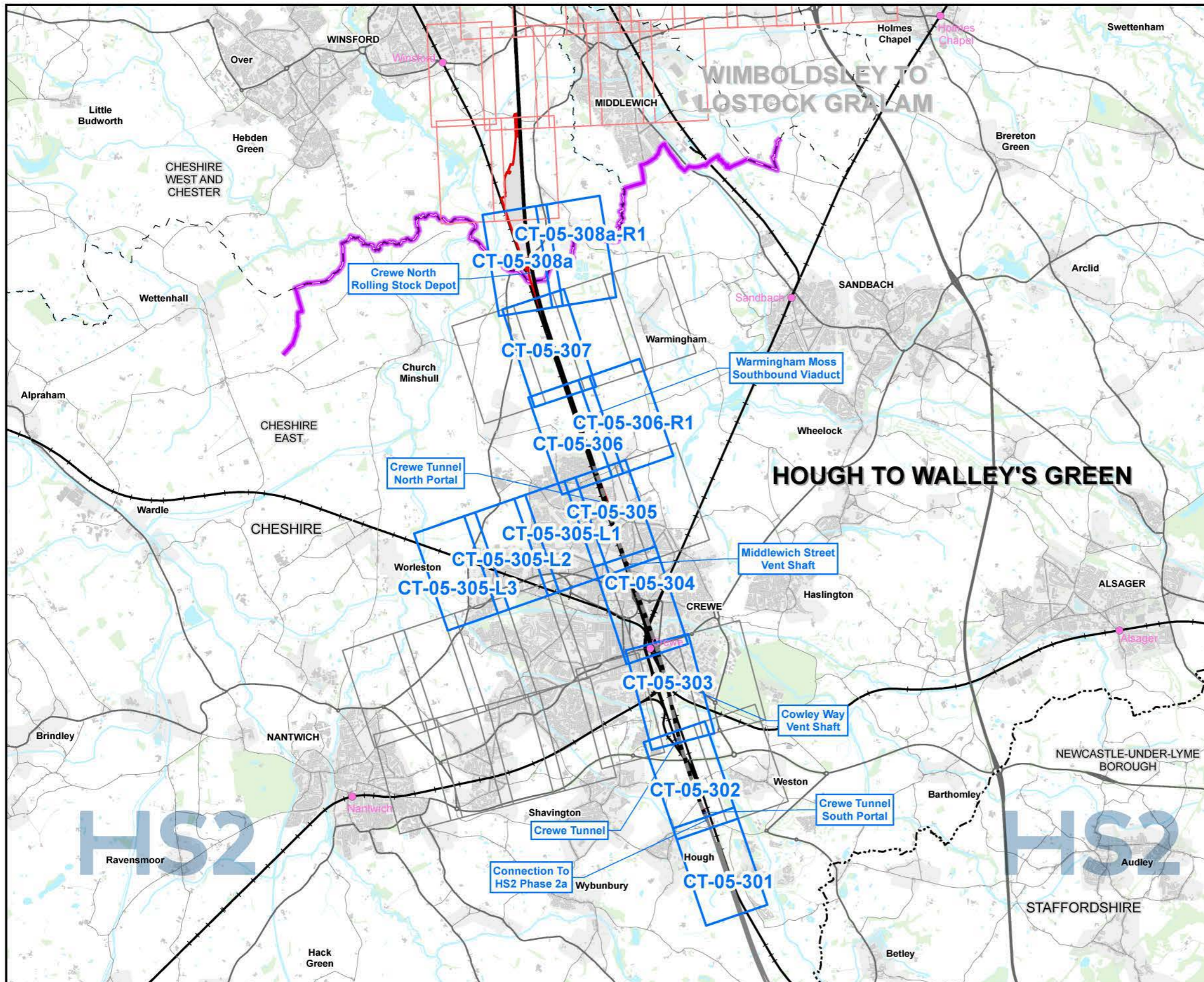
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High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 1 and Additional Provision 1 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 2021 Ordnance Survey (OS) data.

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

Map Number: CT-05-INDEX-MA01

Map Name: Index Map of: Construction Phase SES1 and AP1 ES Community Area MA01: Hough to Walley's Green

HS2

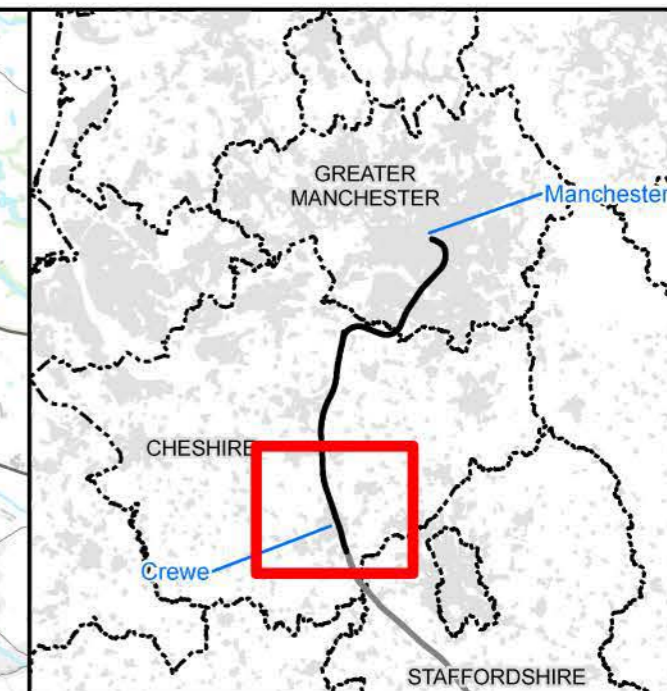
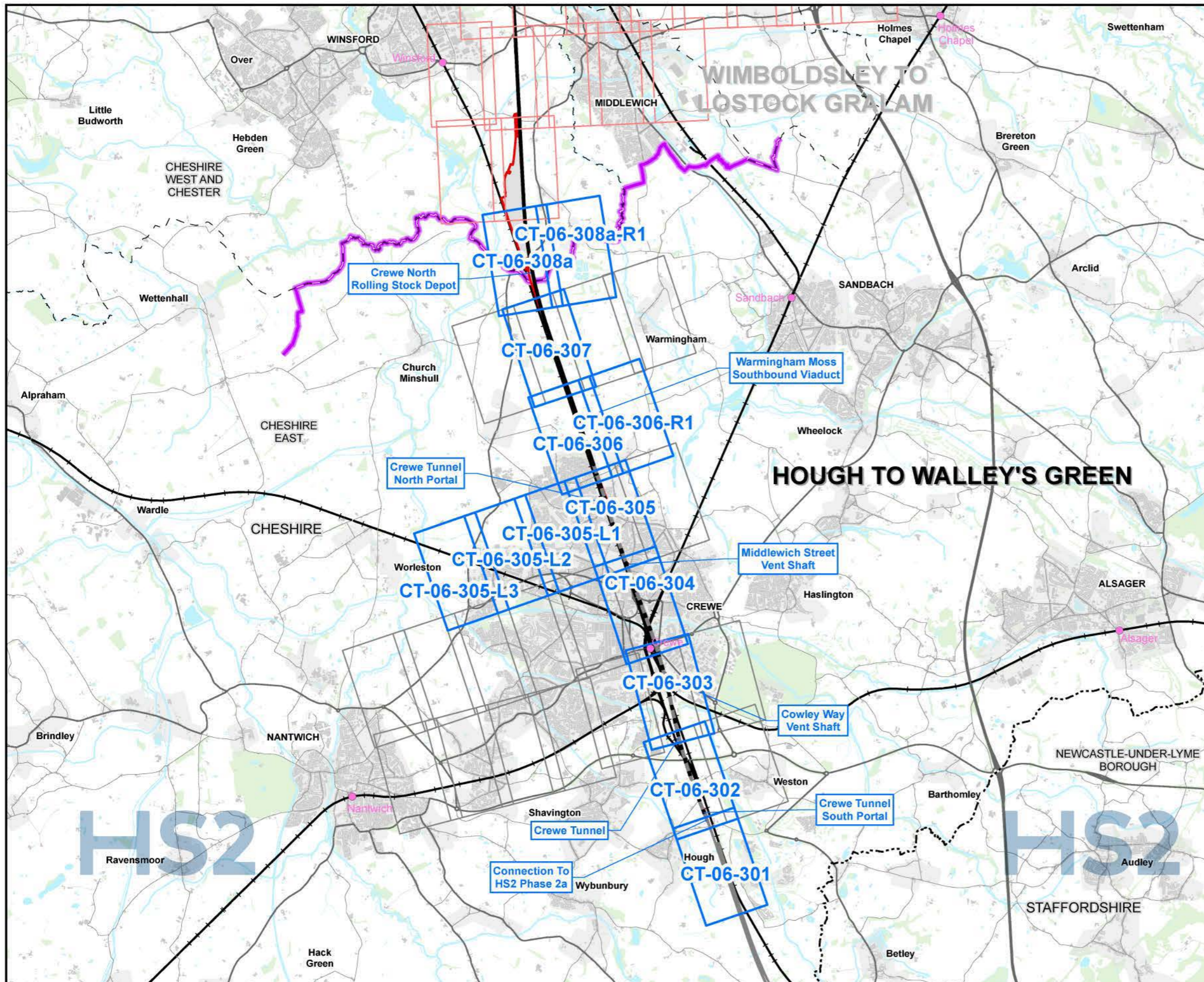
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Doc Number: 2PT24-MWJ-EV-DSC-M000-500001-P02 Date: 19/05/22



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 shown on the plans is reflective of 2021 Ordnance Survey (OS) data.

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

Map Number: CT-06-INDEX-MA01

Map Name: Index Map of:
Proposed Scheme
SES1 and AP1 ES
Community Area MA01:
Hough to Walley's Green

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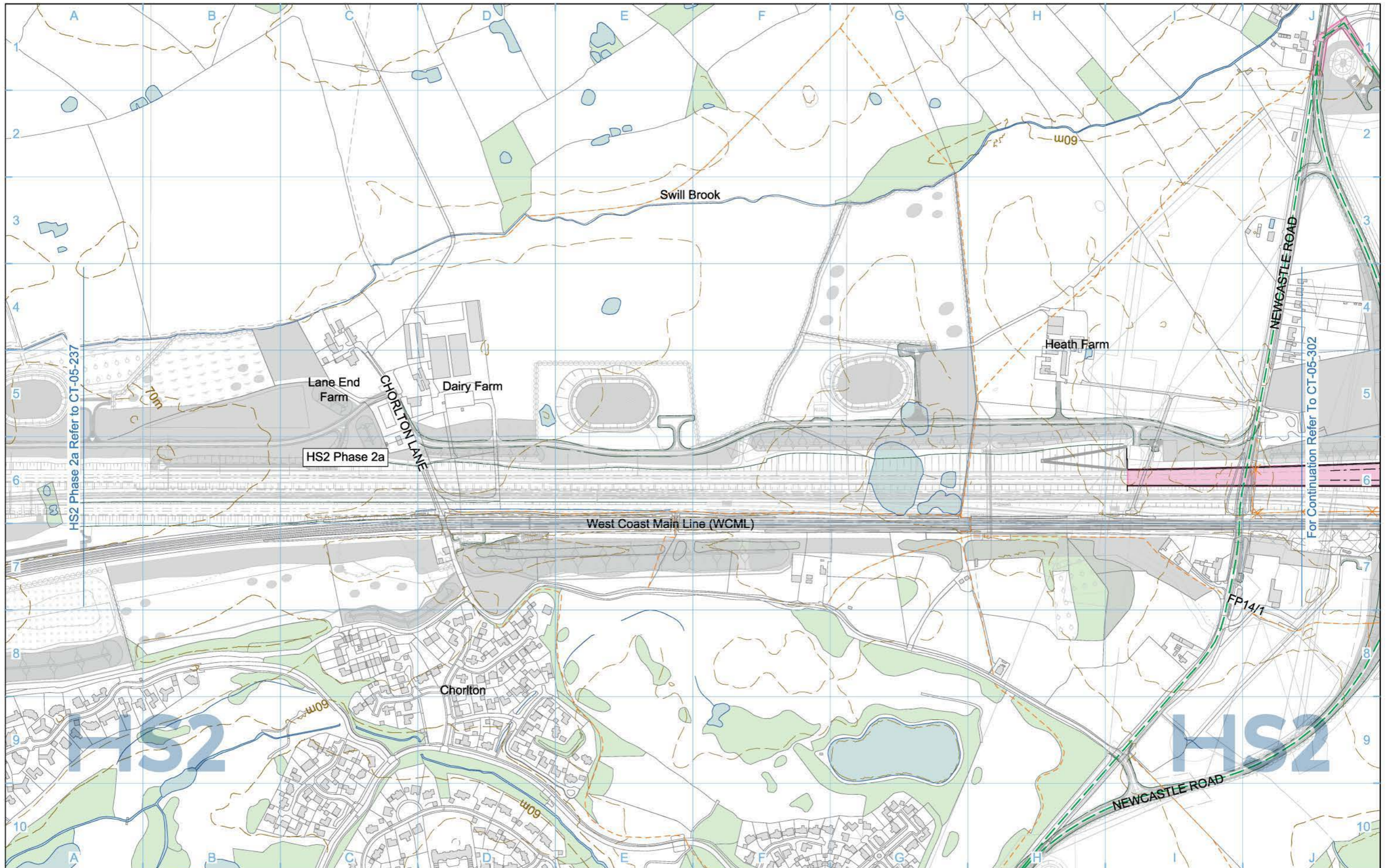
Doc Number: 2PT24-MWJ-EV-DSC-M000-600001-P03

Date: 19/05/22

Scale at A3: 1:75,000

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

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



Legend	
Depot, station, headhouse or portal building	Borrow pit
Tunnel portal	Railway systems site
Main construction compounds	Storage / prefabrication / laydown areas
Satellite construction compounds	Land potentially required during construction
Railway systems compounds	Land potentially required for mitigation planting
System railheads	Temporary replacement community facility
Temporary material stockpile	Rail alignment formation
Community area boundary	Temporary workers accommodation
Construction traffic route	Existing public right of way
Existing public right of way	Public right of way closure
Public right of way closure	Temporary public right of way closure
Temporary public right of way closure	Temporary public right of way diversion / realignment
Temporary public right of way diversion / realignment	New, diverted or realigned public right of way
New, diverted or realigned public right of way	Landscape earthworks
Landscape earthworks	Engineering earthworks
Engineering earthworks	Temporary highway diversion / realignment
Temporary highway diversion / realignment	Major utility works
Major utility works	Major utility works - Removed
Major utility works - Removed	County boundary
County boundary	Borough / District boundary
Borough / District boundary	Tunnels external extent
Tunnels external extent	Existing woodland
Existing woodland	Existing buildings
Existing buildings	Existing inland water
Existing inland water	Existing contours
Existing contours	Existing watercourse
Existing watercourse	HS2 access
HS2 access	Rail alignment Chainage (e.g. 10+000)
Rail alignment Chainage (e.g. 10+000)	

Map Number	CT-05-301
Map Name	Construction Phase
Community Area	MA01 Hough to Walley's Green

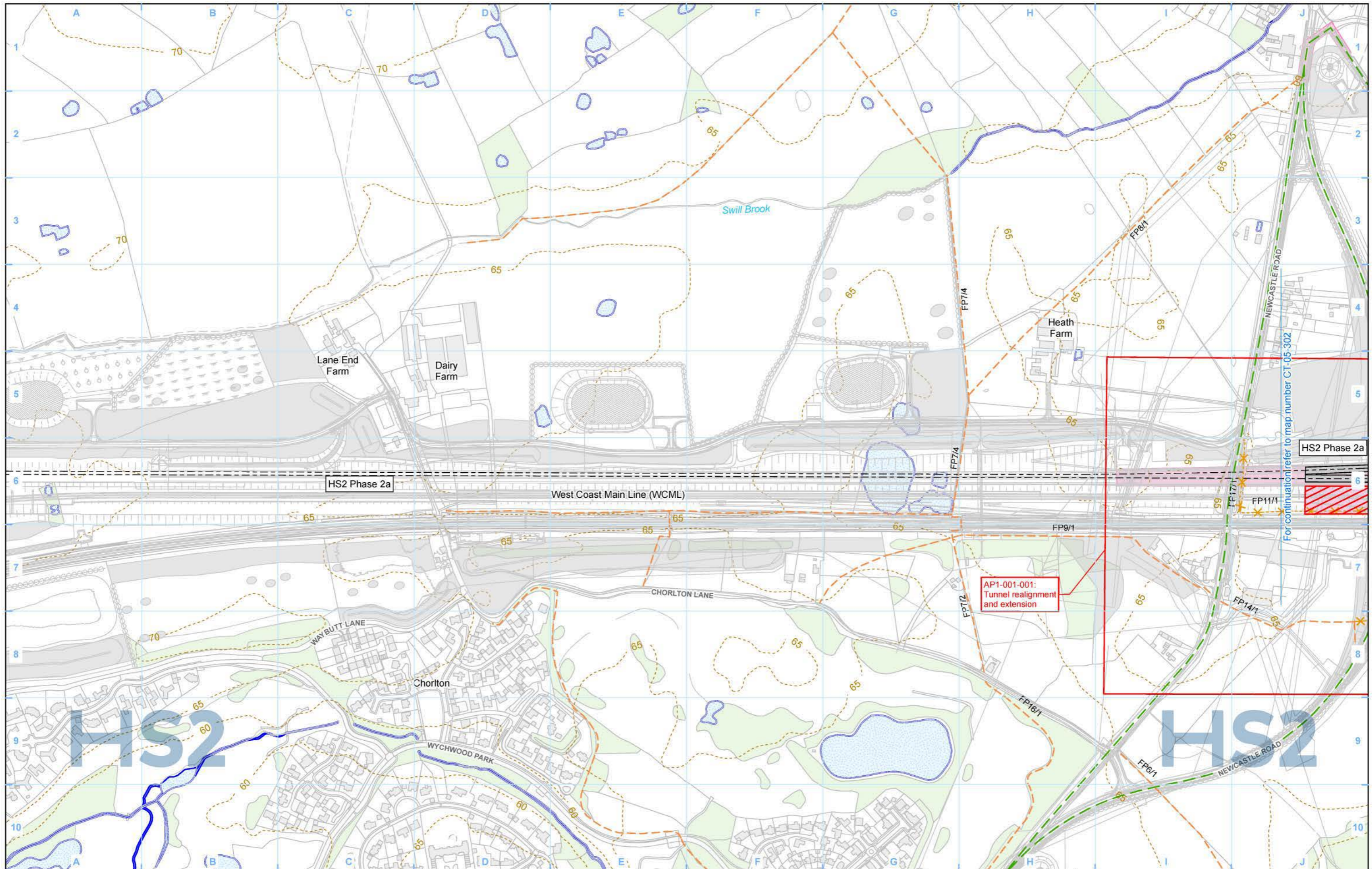
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Doc Number: 2DE01-MWJ-EV-DPL-M002-500301 P09 Date: 10/08/21



Legend	
Depot, station, headhouse or portal building	System railheads
Tunnel portal	Temporary material stockpile
Main construction compound	Borrow pit
Satellite construction compound	Railway systems site
Railway systems compounds	Storage / prefabrication / laydown areas
	Land potentially required during construction
	Temporary replacement community facility
	Rail alignment formation
	Temporary workers accommodation
	Community area boundary
	Construction traffic route
	Existing public right of way
	Public right of way closure
	Temporary public right of way closure
	Temporary public right of way diversion / realignment
	New, diverted or realigned public right of way
	Landscape earthworks
	Engineering earthworks
	Major utility works
	Major utility works - Removed
	County boundary
	Borough / District boundary
	Tunnels external extent
	Existing buildings
	Existing woodland
	Existing inland water
	Existing watercourse
	HS2 access
	Rail alignment
	Additional land required for current AP
	Land no longer required at current AP/SES

Map Number: CT-05-301

Map Name: Construction Phase SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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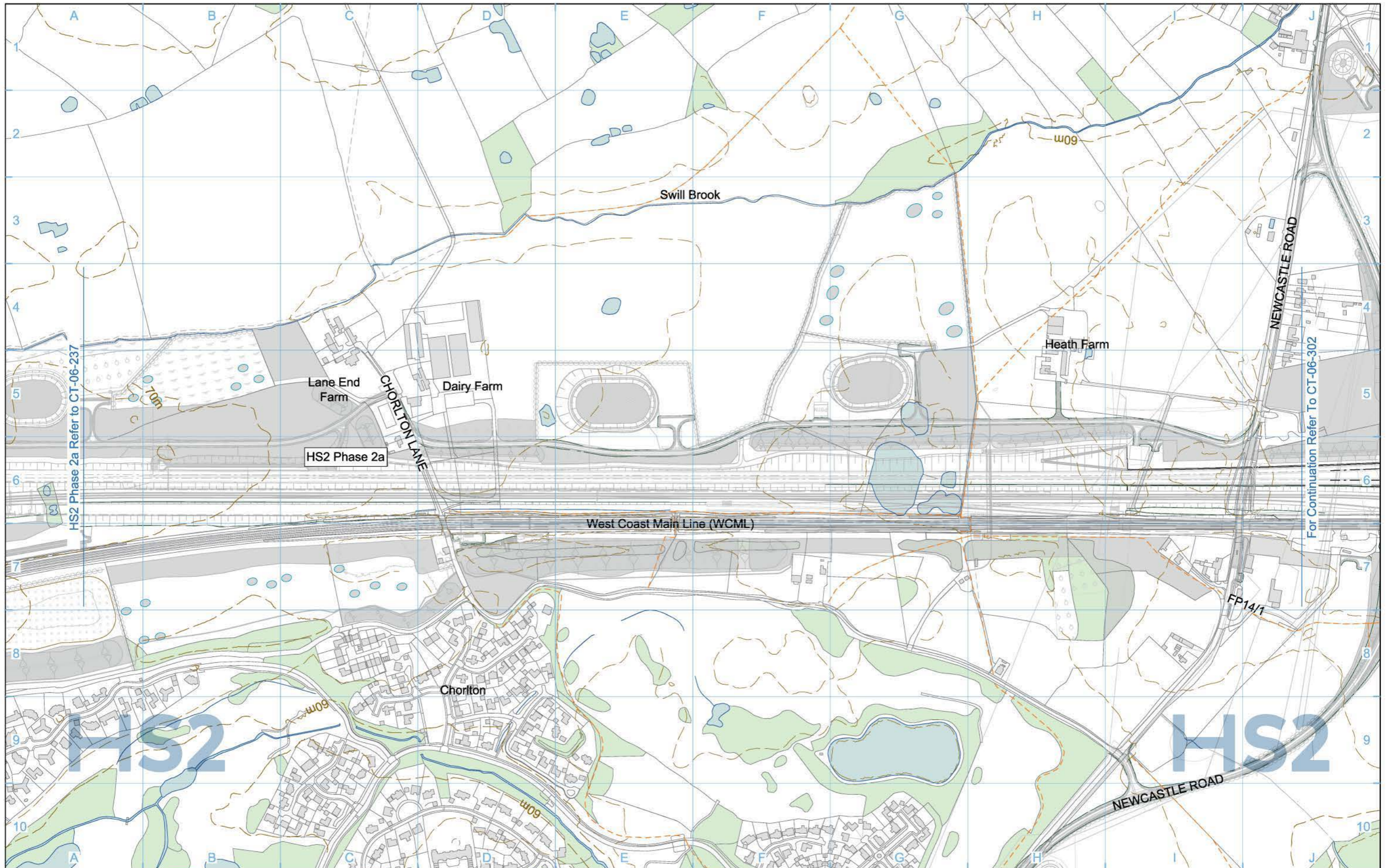
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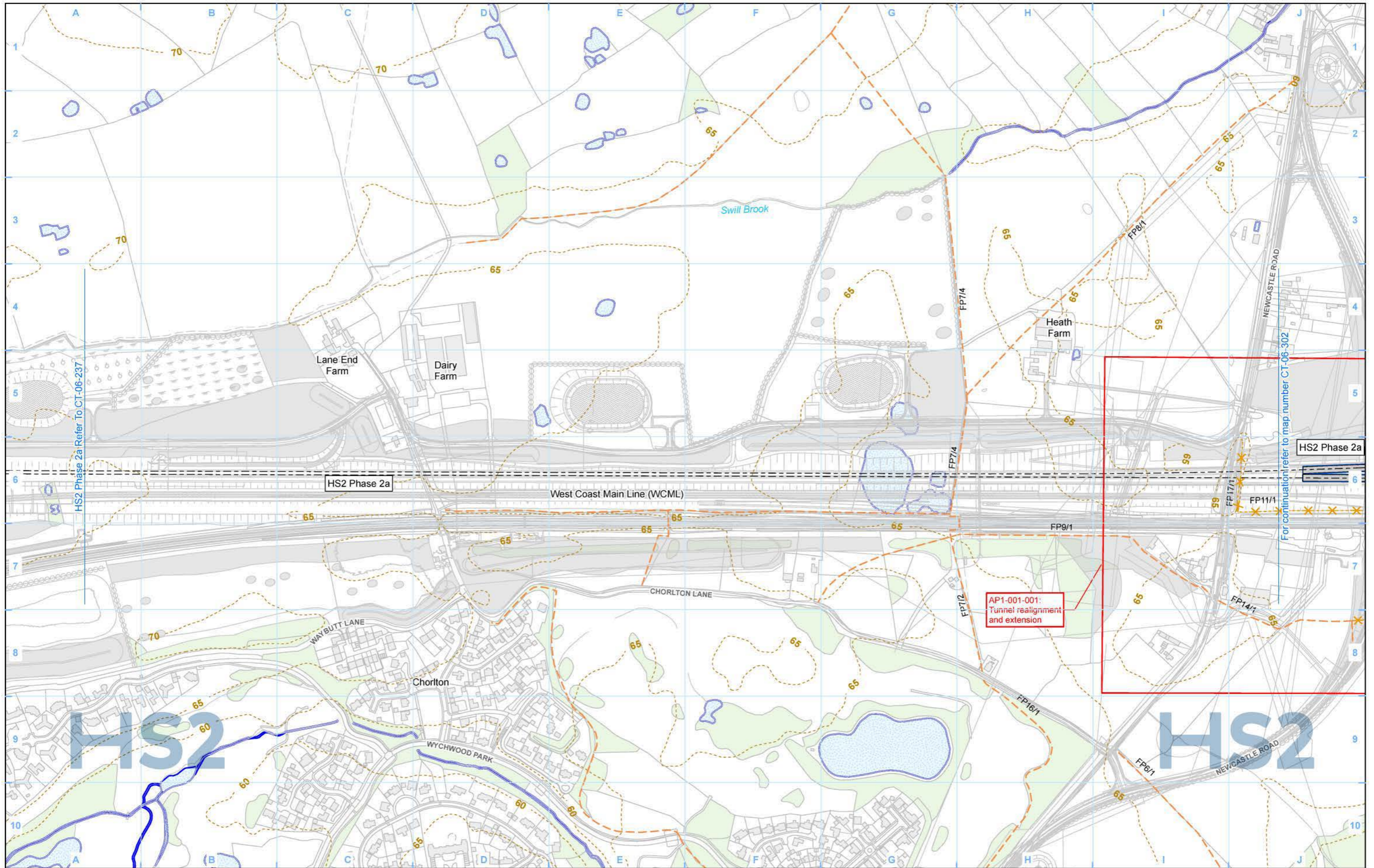
For continuation refer to map number CT-05-302

HS2 Phase 2a

AP1-001-001:
Tunnel realignment
and extension



Legend 		Map Number CT-06-301	 <small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small> <small>Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA.</small>	 Scale at A3: 1:5,000 <small>0 50 100 150 200 250 Metres</small>
Map Name Proposed Scheme		Community Area MA01 Hough to Walley's Green		
Doc Number: 2DE01-MWJ-EV-DPL-M002-600301		P09	Date: 10/08/21	



AP1-001-001:
Tunnel realignment
and extension

- Legend**
- Depot, station, headhouse or portal building
 - Tunnel portal
 - Railway Systems Site
 - Ecological mitigation pond (indicative only)
 - Balancing pond
 - Replacement floodplain storage area
 - Grassland habitat creation
 - Wetland habitat creation
 - Woodland habitat creation
 - Landscape mitigation planting (scrub / woodland)
 - Hedgerow
 - Grassed areas
 - Public realm
 - Replacement community facility
 - Returned to suitable development use
 - Local placement

- County boundary
- Borough / District boundary
- Community area boundary
- New ditches
- Existing watercourse
- Watercourse diversion
- Engineering earthworks
- Landscape earthworks
- Rail alignment formation
- Tunnels external extent
- Major utility works
- Existing public right of way
- New, diverted or realigned public right of way

- Public right of way closure
- Existing woodland
- Existing buildings
- Existing inland water
- HS2 access
- Noise fence barrier
- Rail alignment

Map Number: CT-06-301

Map Name: Proposed Scheme SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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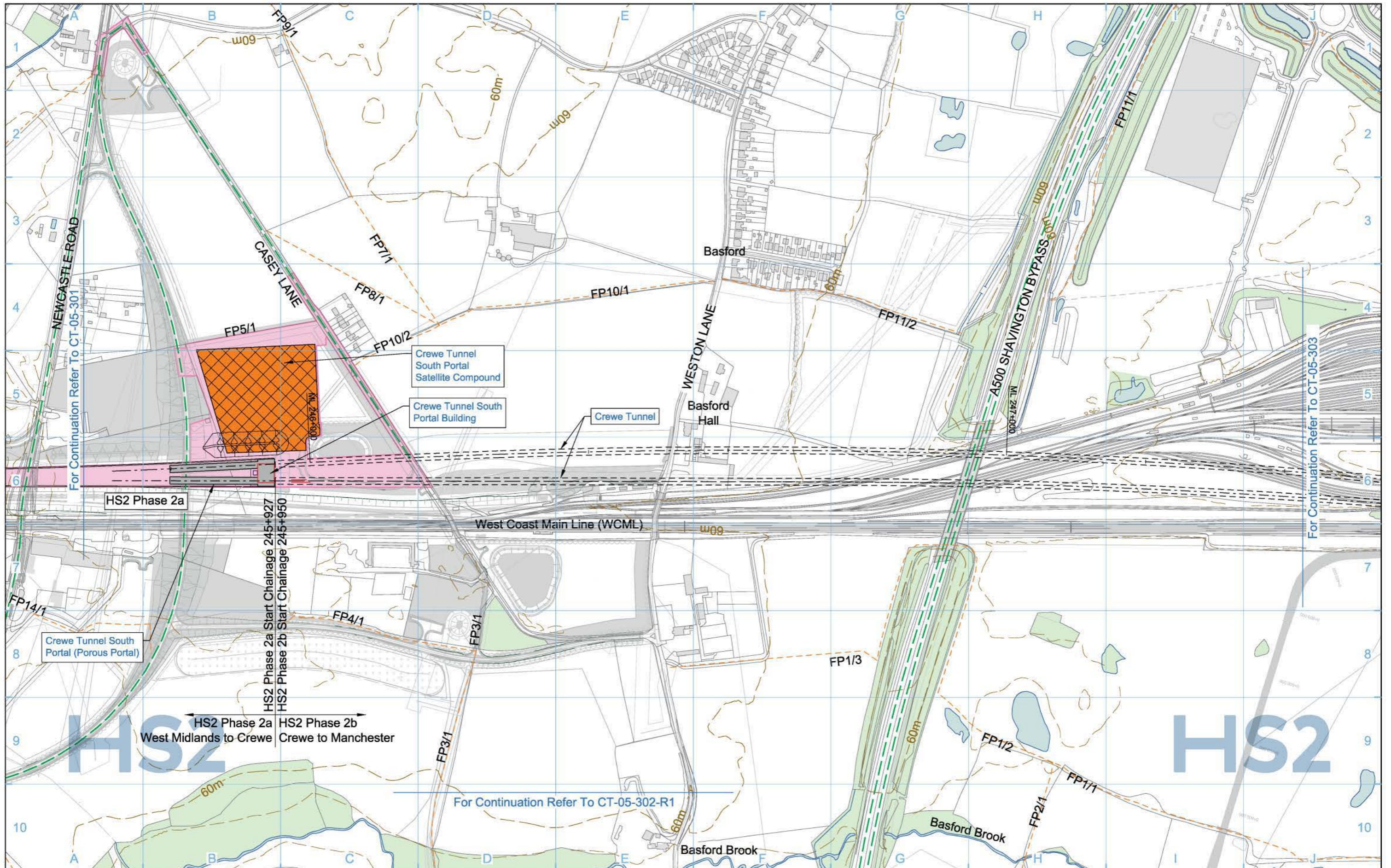
HS2 Phase 2a Refer To CT-06-237

For continuation refer to map number CT-06-302

HS2 Phase 2a

HS2

HS2



Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compounds
	Satellite construction compounds
	Railway systems compounds
	System railheads
	Temporary material stockpile
	Borrow pit
	Railway systems site
	Storage / prefabrication / laydown areas
	Land potentially required during construction
	Land potentially required for mitigation planting
	Temporary replacement community facility
	Rail alignment formation
	Temporary workers accommodation
	Community area boundary
	Construction traffic route
	Existing public right of way
	Public right of way closure
	Temporary public right of way closure
	Temporary public right of way diversion / realignment
	New, diverted or realigned public right of way
	Landscape earthworks
	Engineering earthworks
	Temporary highway diversion / realignment
	Major utility works
	Major utility works - Removed
	County boundary
	Borough / District boundary
	Tunnels external extent
	Existing woodland
	Existing buildings
	Existing inland water
	Existing contours
	Existing watercourse
	HS2 access
	Rail alignment Chainage (e.g. 10+000)

Map Number	CT-05-302
Map Name	Construction Phase
Community Area	MA01 Hough to Walley's Green

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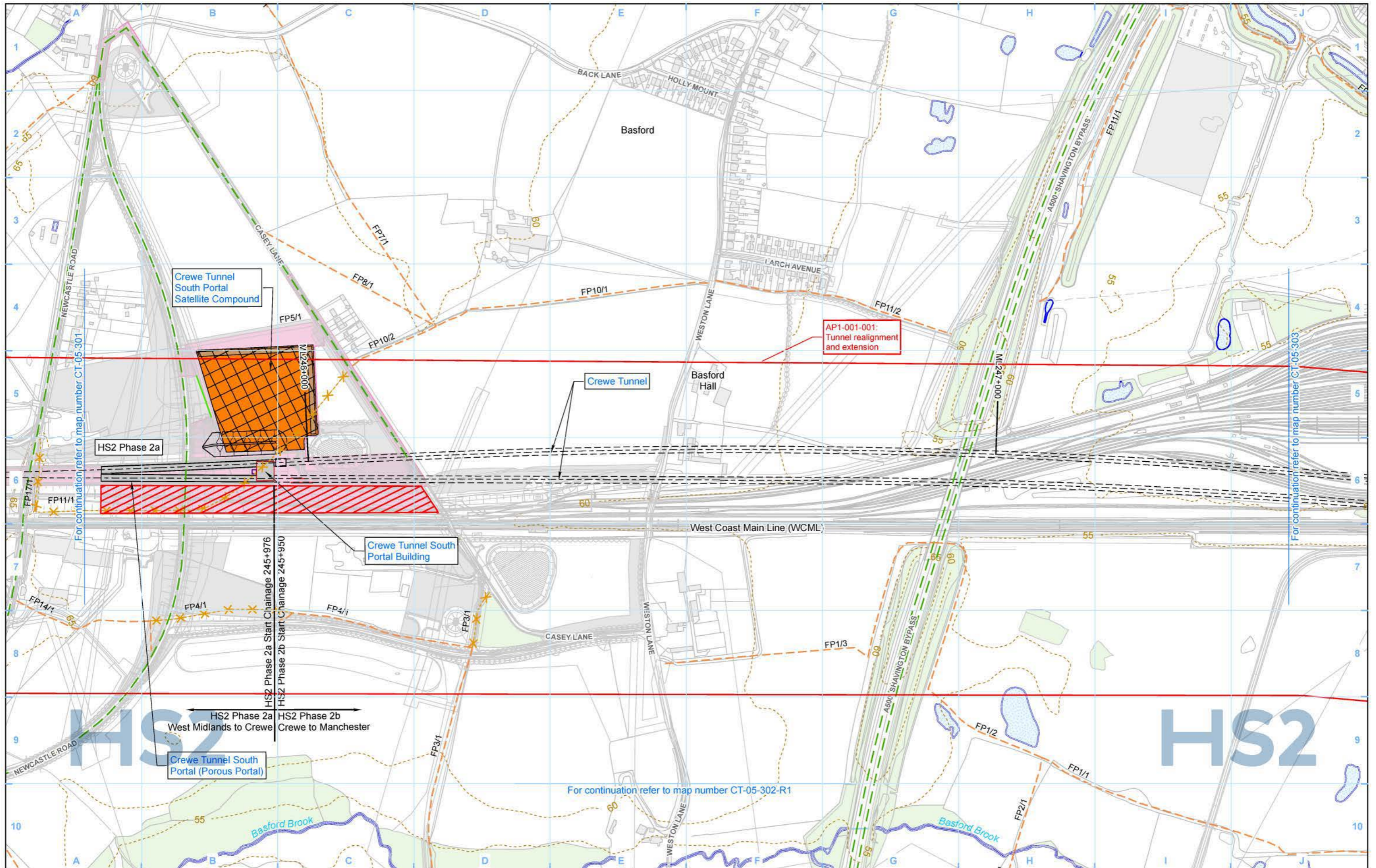
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- Legend**
- Depot, station, headhouse or portal building
 - Tunnel portal
 - Main construction compound
 - Satellite construction compound
 - Railway systems compounds
 - System railheads
 - Temporary material stockpile
 - Borrow pit
 - Railway systems site
 - Storage / prefabrication / laydown areas
 - Land potentially required during construction
 - Land potentially required for mitigation planting
 - Temporary replacement community facility
 - Rail alignment formation
 - Temporary workers accommodation
 - Community area boundary
 - Construction traffic route
 - Existing public right of way
 - Public right of way closure
 - Temporary public right of way closure
 - Temporary public right of way diversion / realignment
 - New, diverted or realigned public right of way
 - Landscape earthworks
 - Engineering earthworks
 - Major utility works
 - Major utility works - Removed
 - County boundary
 - Borough / District boundary
 - Tunnels external extent
 - Existing buildings
 - Existing woodland
 - Existing inland water
 - Existing watercourse
 - HS2 access
 - Rail alignment
 - Additional land required for current AP
 - Land no longer required at current AP/SES

For continuation refer to map number CT-05-301

For continuation refer to map number CT-05-302-R1

For continuation refer to map number CT-05-303

HS2 Phase 2a
West Midlands to Crewe

HS2 Phase 2b
Crewe to Manchester

HS2 Phase 2a Start Chainage 245+976

HS2 Phase 2b Start Chainage 245+950

Crewe Tunnel South Portal Satellite Compound

Crewe Tunnel

Crewe Tunnel South Portal Building

Crewe Tunnel South Portal (Porous Portal)

Basford

Basford Hall

West Coast Main Line (WCML)

Basford Brook

AP1-001-001: Tunnel realignment and extension

Map Number: CT-05-302

Map Name: Construction Phase SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

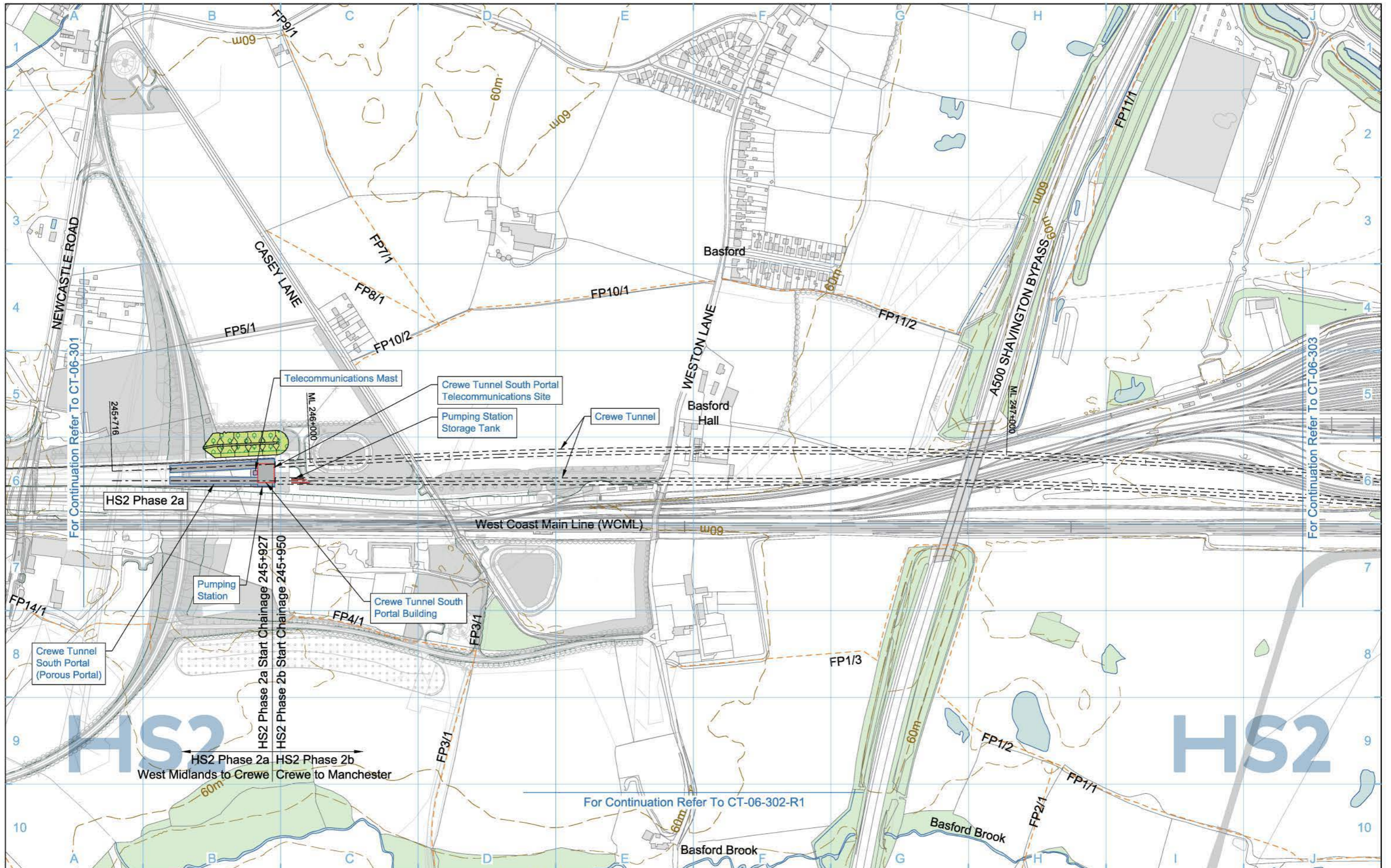
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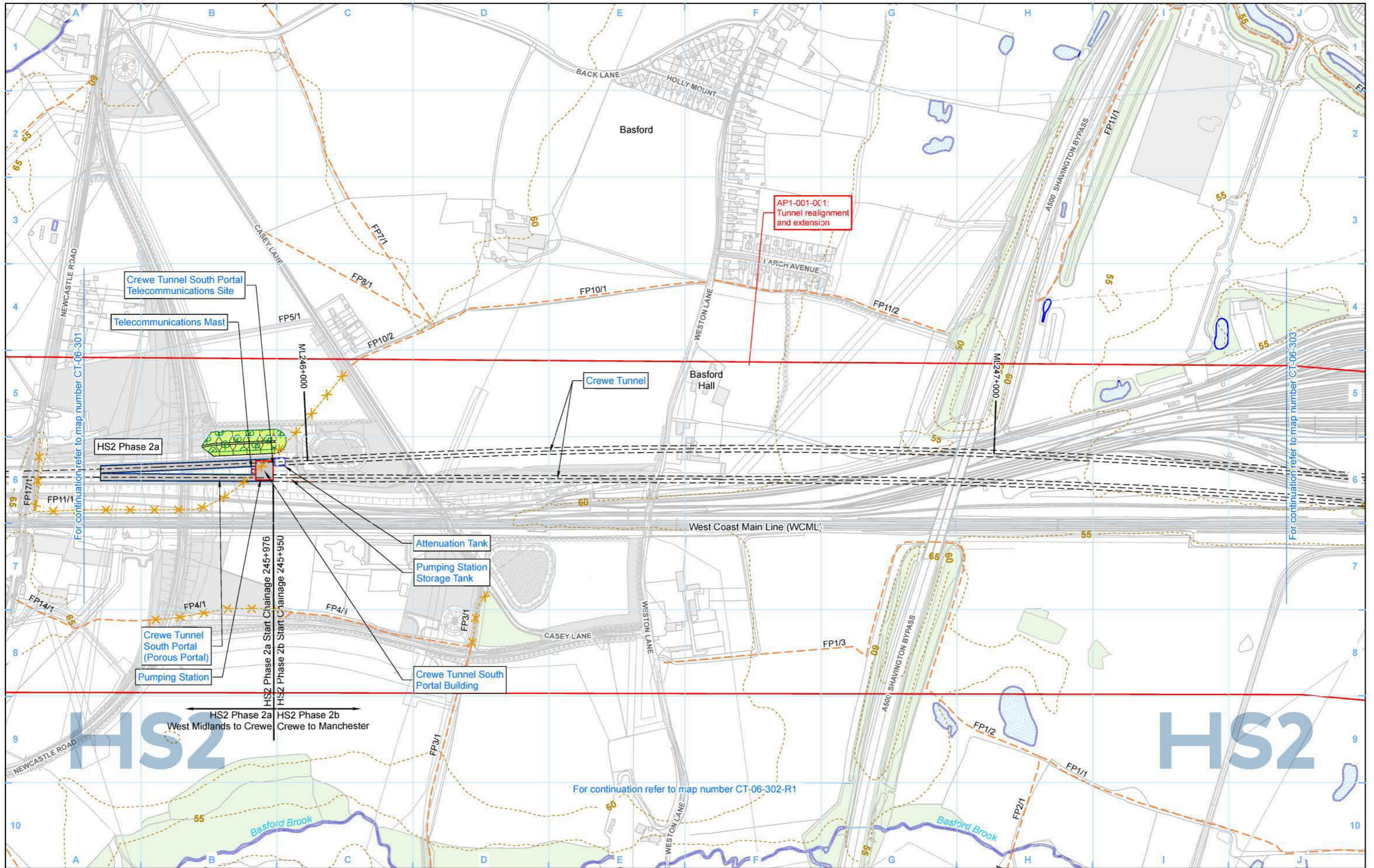
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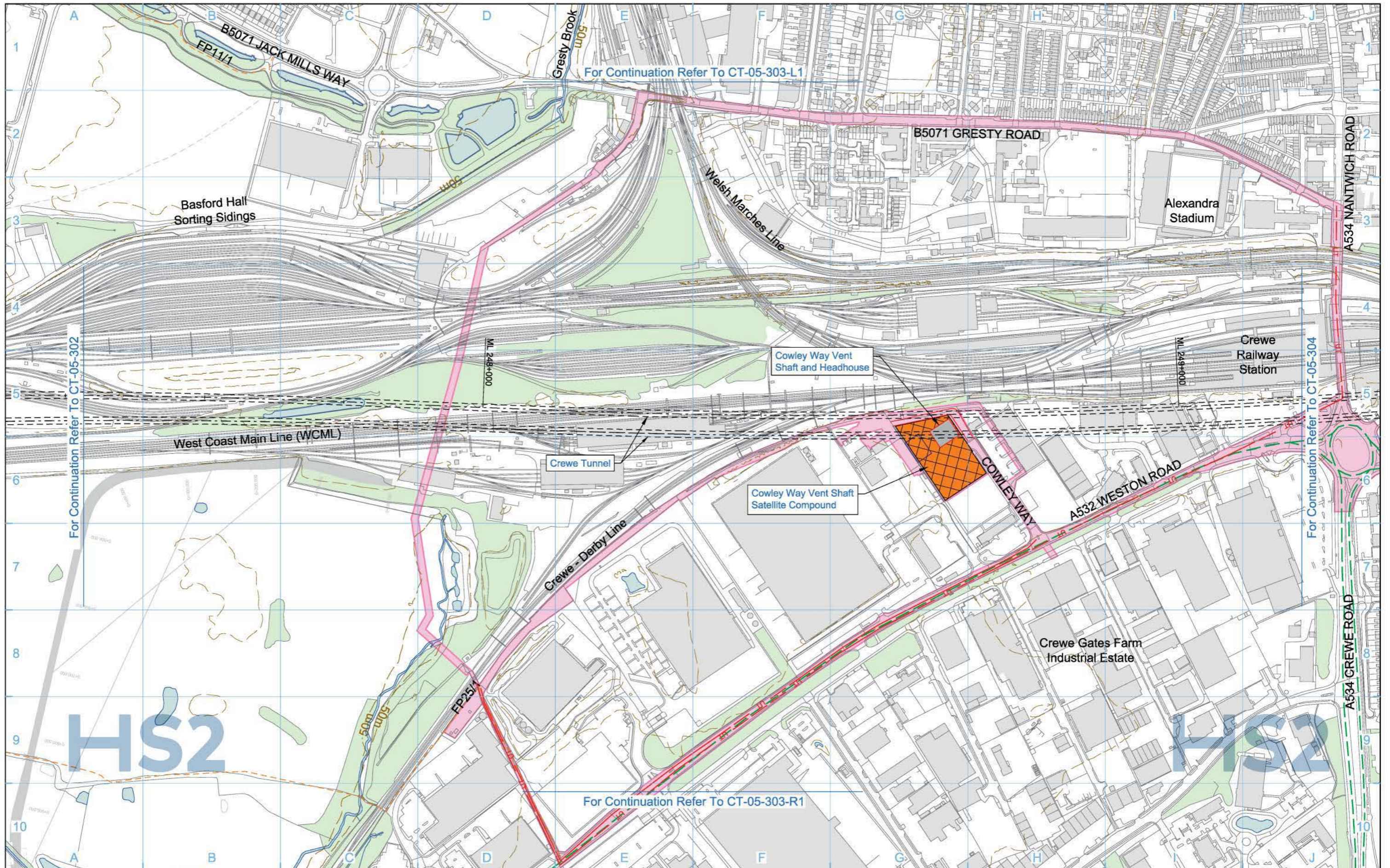
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Map Name Proposed Scheme		Community Area MA01 Hough to Walley's Green	



Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Railway Systems Site Ecological mitigation pond (Indicative only) Balancing pond 		<ul style="list-style-type: none"> Replacement floodplain storage area Pumping station Grassland habitat creation Wetland habitat creation Woodland habitat creation Landscape mitigation planting (scrub / woodland) Hedgerow 		<ul style="list-style-type: none"> Grassed areas Public realm Replacement community facility Returned to suitable development use Local placement 		<ul style="list-style-type: none"> County boundary Borough / District boundary Community area boundary New ditches Existing watercourse Watercourse diversion Engineering earthworks 		<ul style="list-style-type: none"> Landscape earthworks Rail alignment formation Tunnels external extent Major utility works Existing public right of way New, diverted or realigned public right of way 		<ul style="list-style-type: none"> Public right of way closure Existing woodland Existing buildings Existing inland water HS2 access Noise fence barrier Rail alignment 	
Map Number CT-06-302		Map Name Proposed Scheme SES1 and AP1 ES		Community Area MA01: Hough to Walley's Green		HS2 <small>Registered in England. Registration number 06791686. Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6GA.</small> <small>© Crown copyright and database rights 2021 OS 100049190</small>		<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>		Scale at A3: 1:5,000 	
<small>For continuation refer to map number CT-06-301</small>		<small>For continuation refer to map number CT-06-303</small>		<small>For continuation refer to map number CT-06-302-R1</small>		<small>For continuation refer to map number CT-06-302-R1</small>		<small>For continuation refer to map number CT-06-302-R1</small>		<small>For continuation refer to map number CT-06-302-R1</small>	



Legend	
Depot, station, headhouse or portal building	Borrow pit
Tunnel portal	Railway systems site
Main construction compounds	Storage / prefabrication / laydown areas
Satellite construction compounds	Land potentially required during construction
Railway systems compounds	Land potentially required for mitigation planting
System railheads	Temporary replacement community facility
Temporary material stockpile	Rail alignment formation
	Temporary workers accommodation
Community area boundary	Construction traffic route
Existing public right of way	Existing earthworks
Public right of way closure	Temporary highway diversion / realignment
Temporary public right of way closure	Major utility works
Temporary public right of way diversion / realignment	Major utility works - Removed
New, diverted or realigned public right of way	County boundary
	Borough / District boundary
	Tunnels external extent
	Existing woodland
	Existing buildings
	Existing inland water
	Existing contours
	Existing watercourse
	HS2 access
	Rail alignment Chainage (e.g. 10+000)

Map Number	CT-05-303
Map Name	Construction Phase
Community Area	MA01 Hough to Walley's Green

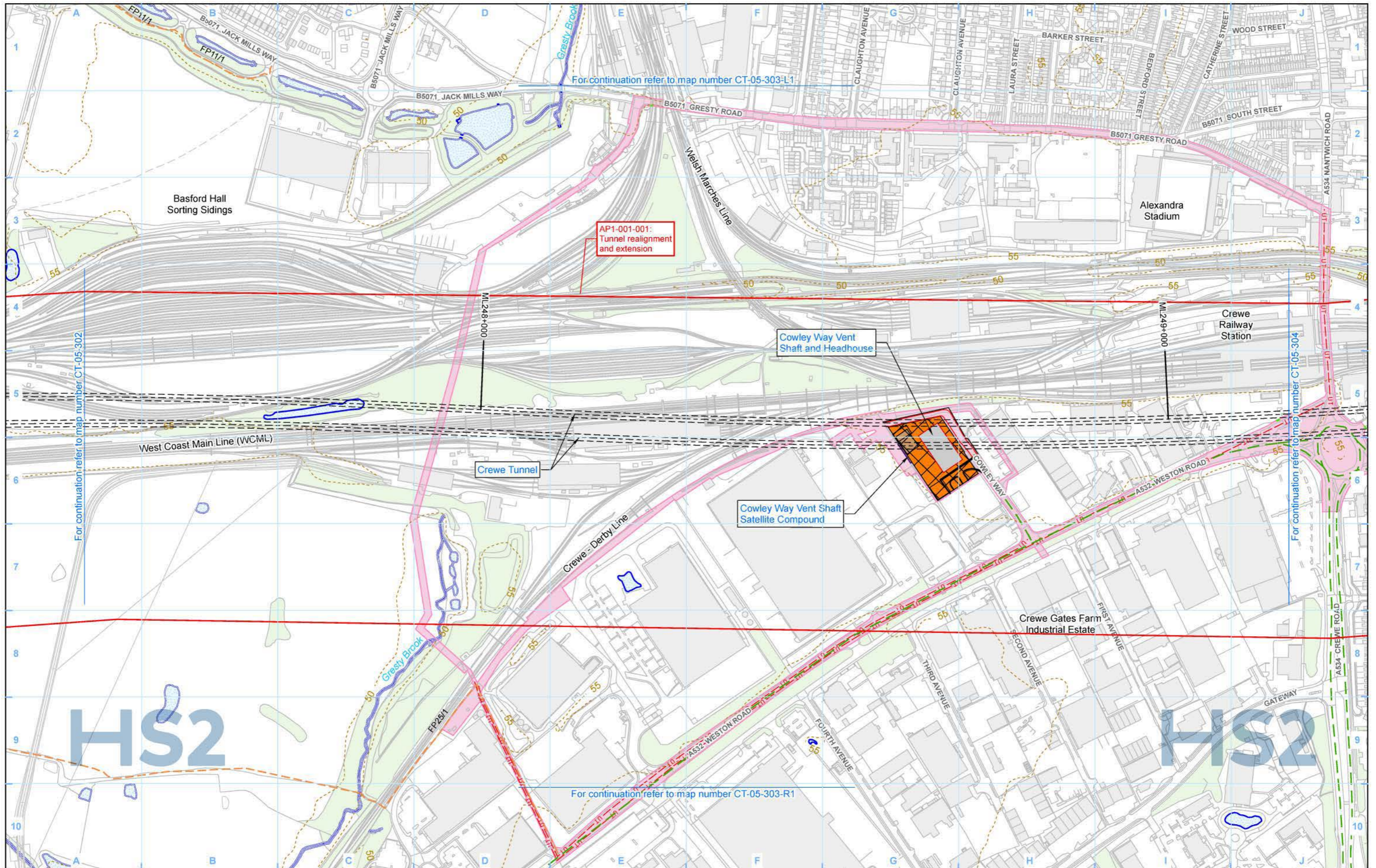
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Legend

	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compound
	Satellite construction compound
	Railway systems compounds

	Land potentially required for mitigation planting
	Temporary replacement community facility
	Rail alignment formation
	Temporary workers accommodation
	Community area boundary
	Construction traffic route

	Existing public right of way
	Public right of way closure
	Temporary public right of way closure
	Temporary public right of way diversion / realignment
	New, diverted or realigned public right of way

	Existing woodland
	Existing inland water
	Existing watercourse
	HS2 access
	Rail alignment
	Additional land required for current AP
	Land no longer required at current AP/SES

	Landscape earthworks
	Engineering earthworks
	Major utility works
	Major utility works - Removed
	County boundary
	Borough / District boundary
	Tunnels external extent
	Existing buildings

	System railheads
	Temporary material stockpile
	Borrow pit
	Railway systems site
	Storage / prefabrication / laydown areas
	Land potentially required during construction

Map Number: CT-05-303

Map Name: Construction Phase SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

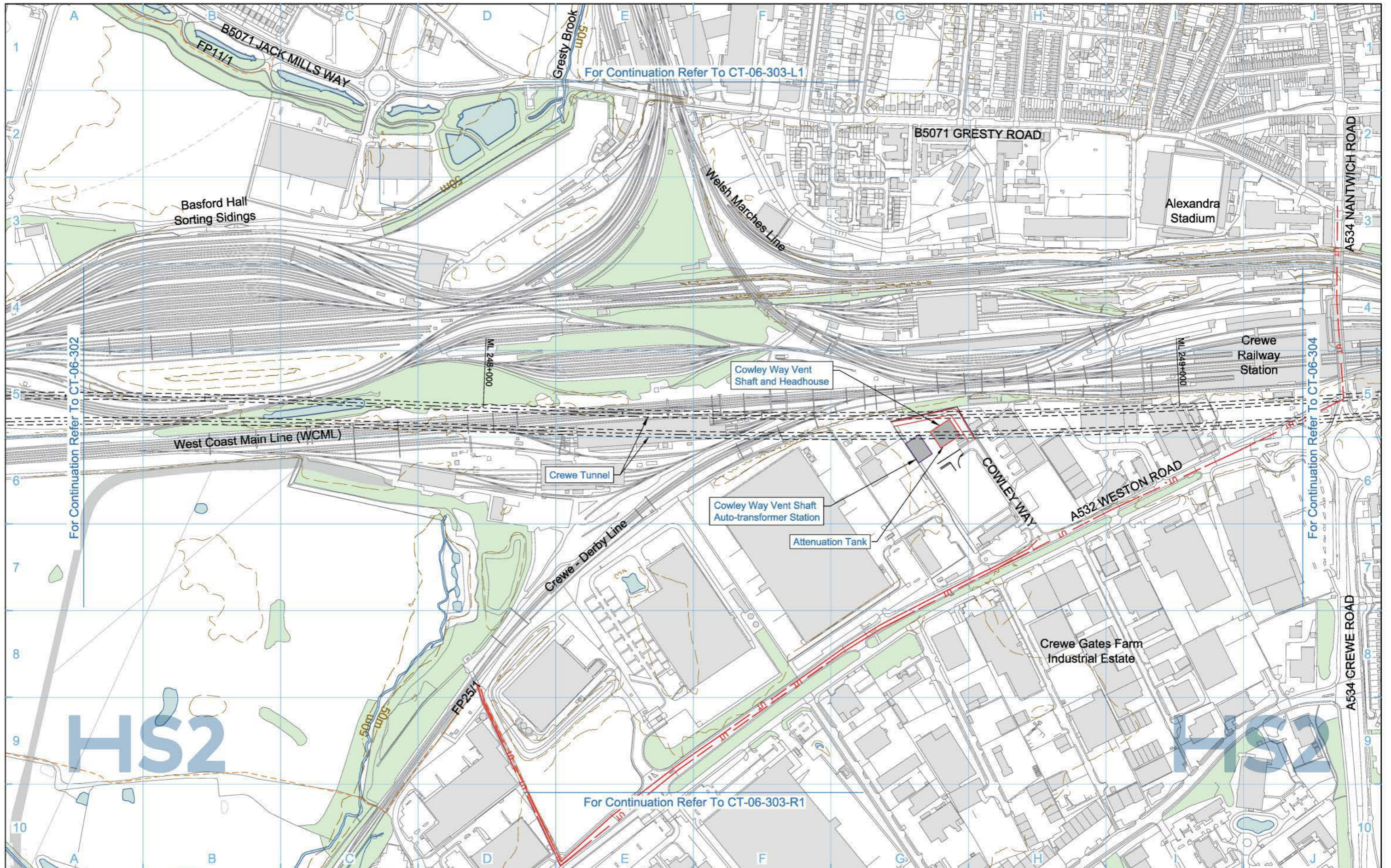
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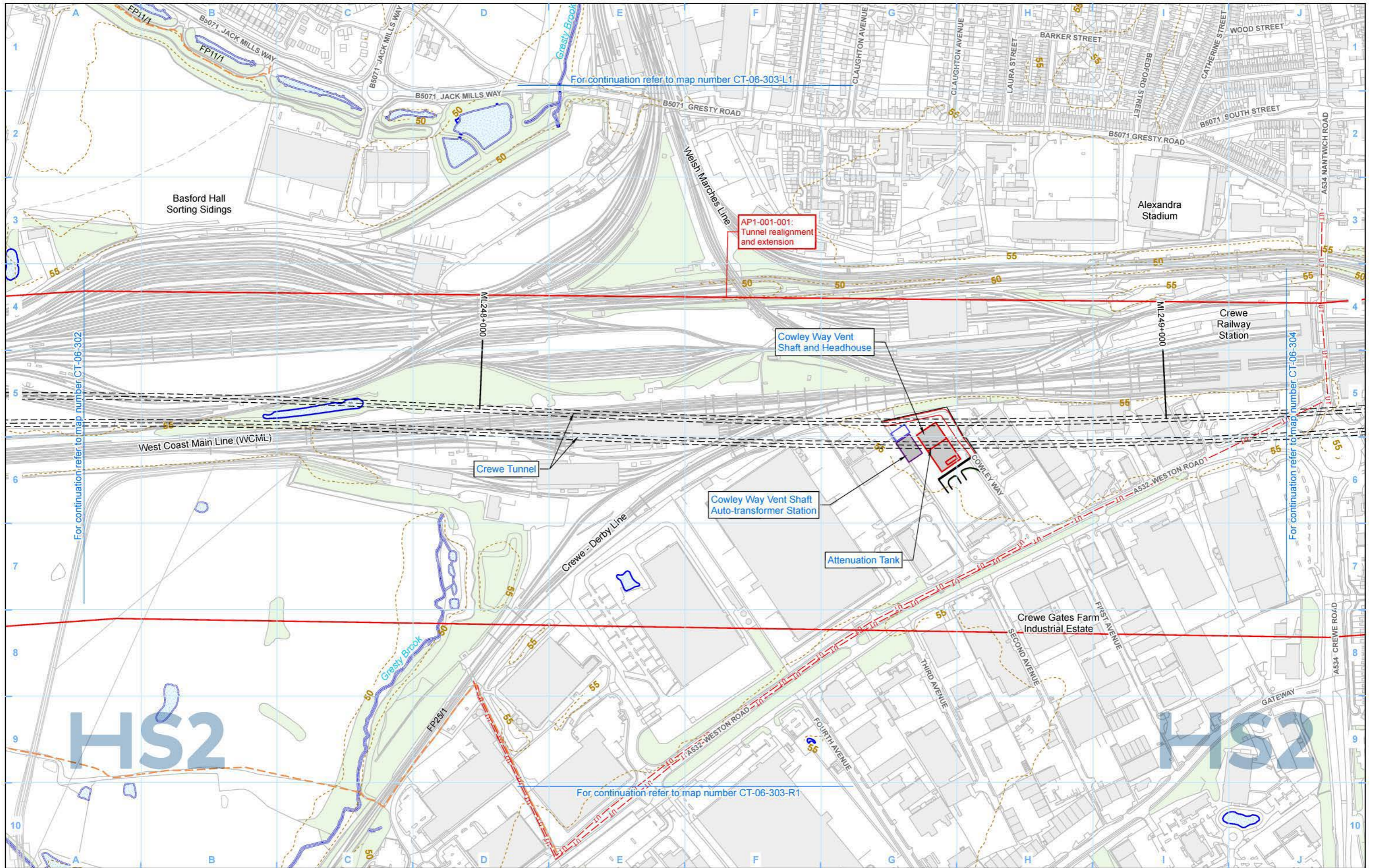
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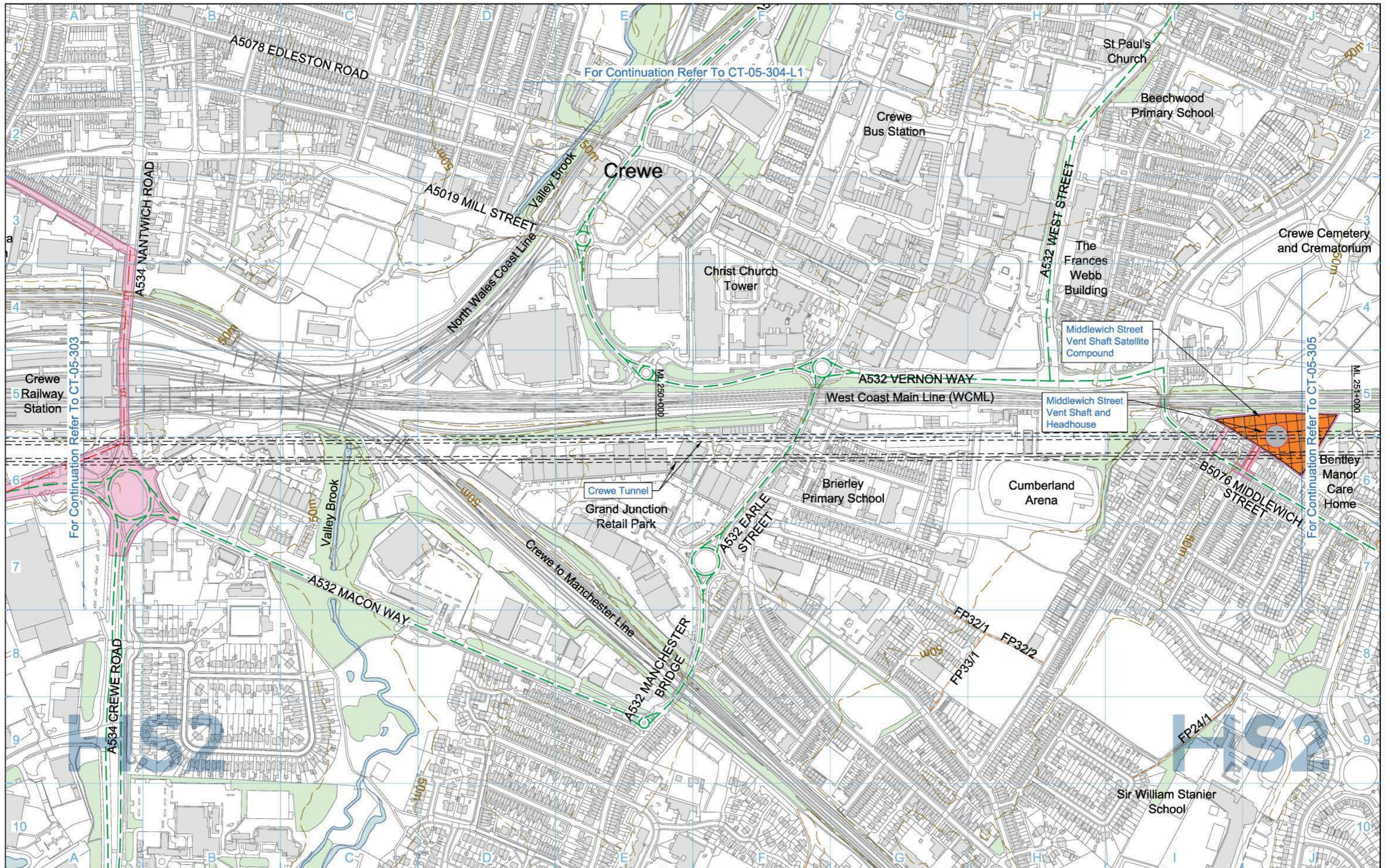
Date: 19/05/22



Legend 		Map Number CT-06-303 Map Name Proposed Scheme Community Area MA01 Hough to Walley's Green	<p>Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250 Metres</p> <p>© Crown copyright and database rights 2020. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: 2DE01-MWJ-EV-DPL-M002-600303 P09 Date: 10/08/21</p>
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Legend 		Map Number CT-06-303 Map Name Proposed Scheme SES1 and AP1 ES Community Area MA01: Hough to Walley's Green	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Registered in England, Registration number 06791686. Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2021 OS 100049190 Doc Number: 2PT24-MWJ-EV-DPL-M002-600303-P02 Date: 19/05/22
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Legend			
Depot, station, headhouse or portal building	Borrow pit	Community area boundary	Landscape earthworks
Tunnel portal	Railway systems site	Construction traffic route	Engineering earthworks
Main construction compounds	Storage / prefabrication / laydown areas	Existing public right of way	Temporary highway diversion / realignment
Satellite construction compounds	Land potentially required during construction	Public right of way closure	Major utility works
Railway systems compounds	Land potentially required for mitigation planting	Temporary public right of way closure	Major utility works - Removed
System railheads	Temporary replacement community facility	Temporary public right of way diversion / realignment	County boundary
Temporary material stockpile	Rail alignment formation	New, diverted or realigned public right of way	Borough / District boundary
	Temporary workers accommodation		Tunnels external extent

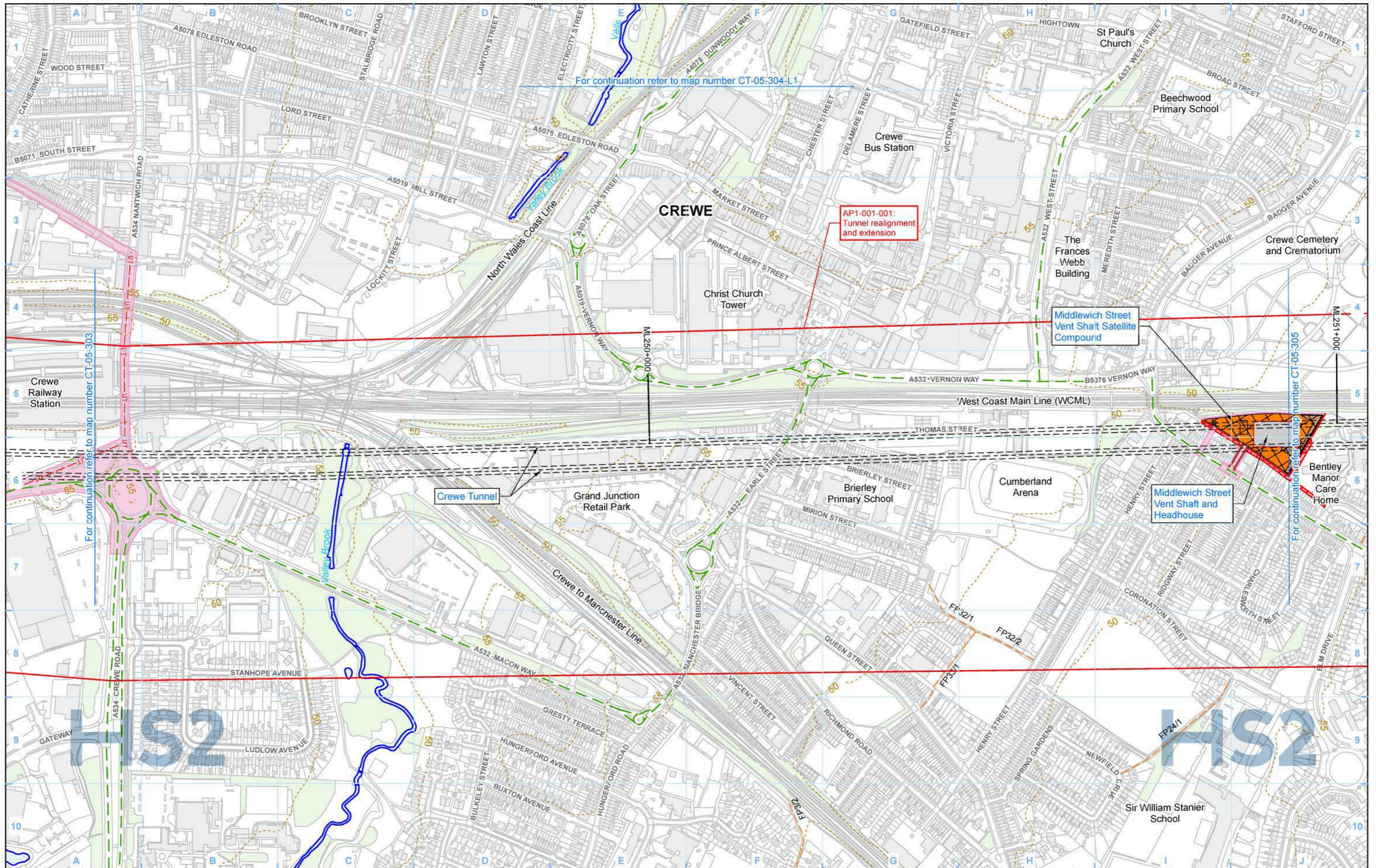
Map Number	CT-05-304
Map Name	Construction Phase
Community Area	MA01 Hough to Walley's Green

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Legend	
Depot, station, headhouse or portal building	System railheads
Tunnel portal	Temporary material stockpile
Main construction compound	Borrow pit
Satellite construction compound	Railway systems site
Railway systems compounds	Storage / prefabrication / laydown areas
Land potentially required for mitigation planting	Land potentially required during construction
Temporary replacement community facility	Rail alignment formation
Temporary workers accommodation	Community area boundary
Land potentially required during construction	Construction traffic route
Existing public right of way	Public right of way closure
Public right of way closure	Temporary public right of way closure
Temporary public right of way closure	Temporary public right of way diversion / realignment
Temporary public right of way diversion / realignment	New, diverted or realigned public right of way
Construction traffic route	Existing buildings
Existing woodland	Existing inland water
Existing inland water	Existing watercourse
Existing watercourse	HS2 access
HS2 access	Rail alignment
Rail alignment	Additional land required for current AP
Additional land required for current AP	Land no longer required at current AP/SES
Land no longer required at current AP/SES	Landscape earthworks
Landscape earthworks	Engineering earthworks
Engineering earthworks	Major utility works
Major utility works	Major utility works - Removed
Major utility works - Removed	County boundary
County boundary	Borough / District boundary
Borough / District boundary	Tunnels external extent
Tunnels external extent	Existing buildings

Map Number: CT-05-304

Map Name: Construction Phase SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

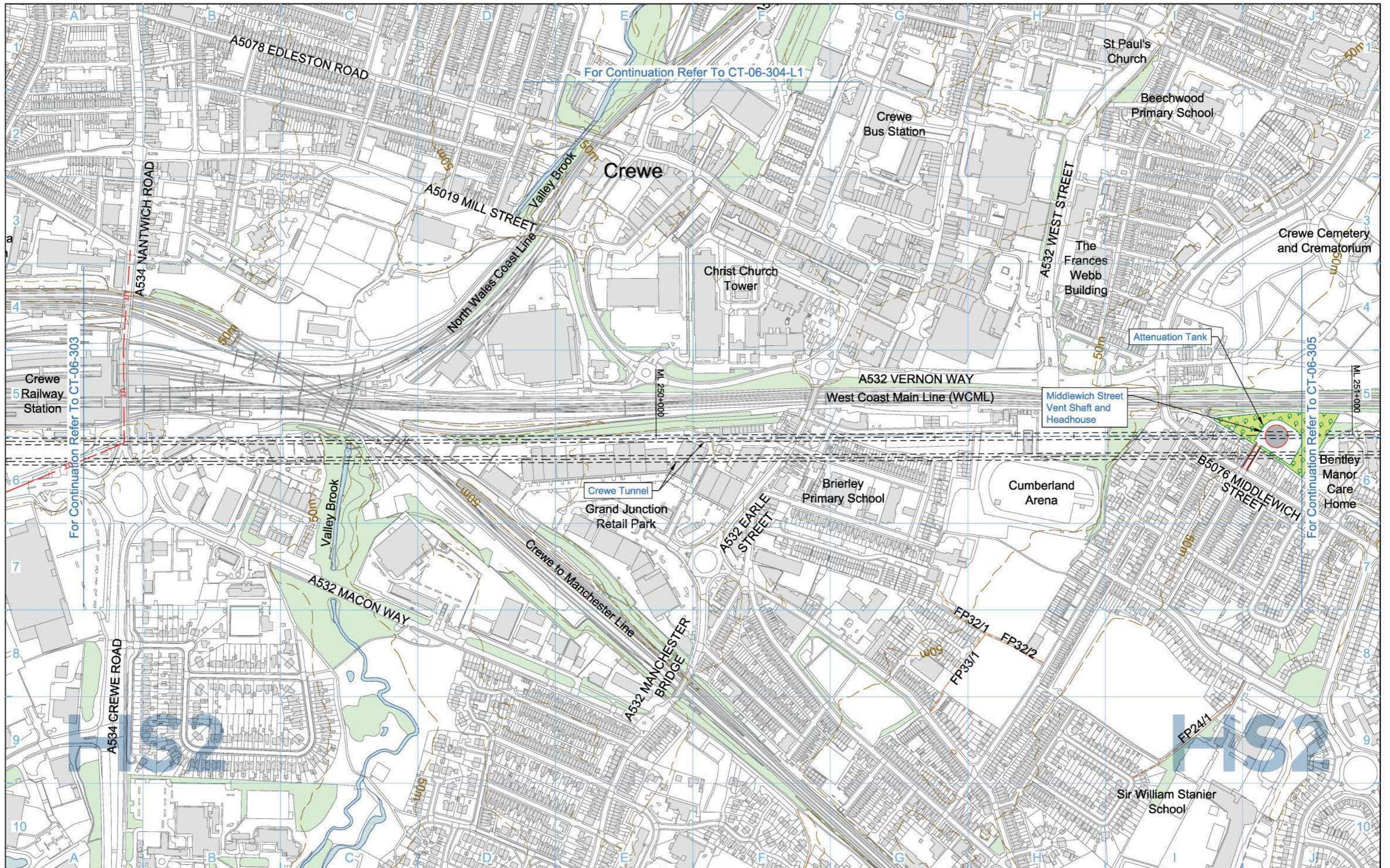
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Scale at A3: 1:5,000

Date: 19/05/22



Legend	
Depot, station, headhouse or portal building	Woodland habitat creation
Tunnel portal	Wetland habitat creation
Railway Systems Site	Grassland habitat creation
Ecological mitigation pond (Indicative only)	Landscape mitigation planting (scrub / woodland)
Balancing pond	Grassed areas
Replacement floodplain storage area	Public realm
Replacement Community Facility	Replacement Community Facility
Local placement	Returned to suitable development use
Hedgerow	County boundary
Borough / District boundary	Community area boundary
Watercourse diversion	or Existing watercourse
New ditches	New ditches
Engineering earthworks	Landscape earthworks
Rail alignment formation	Tunnels external extent
Major utility works	Existing public right of way
New, diverted or realigned public right of way	Public right of way closure
Existing woodland	Existing buildings
Existing inland water	Existing contours
HS2 access	Noise fence barrier
Rail alignment	Chainage (e.g. 10+000)

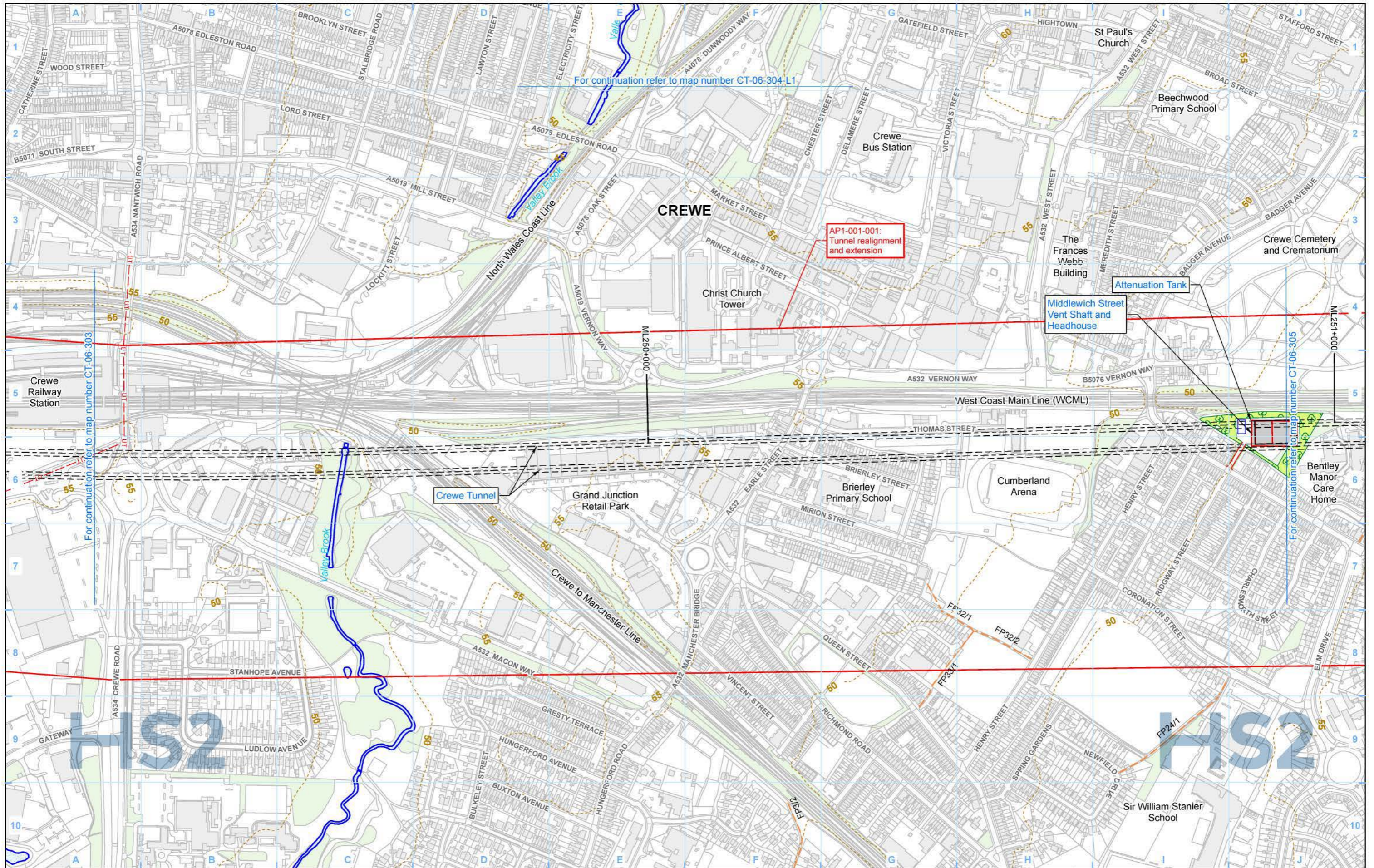
Map Number	CT-06-304
Map Name	Proposed Scheme
Community Area	MA01 Hough to Walley's Green

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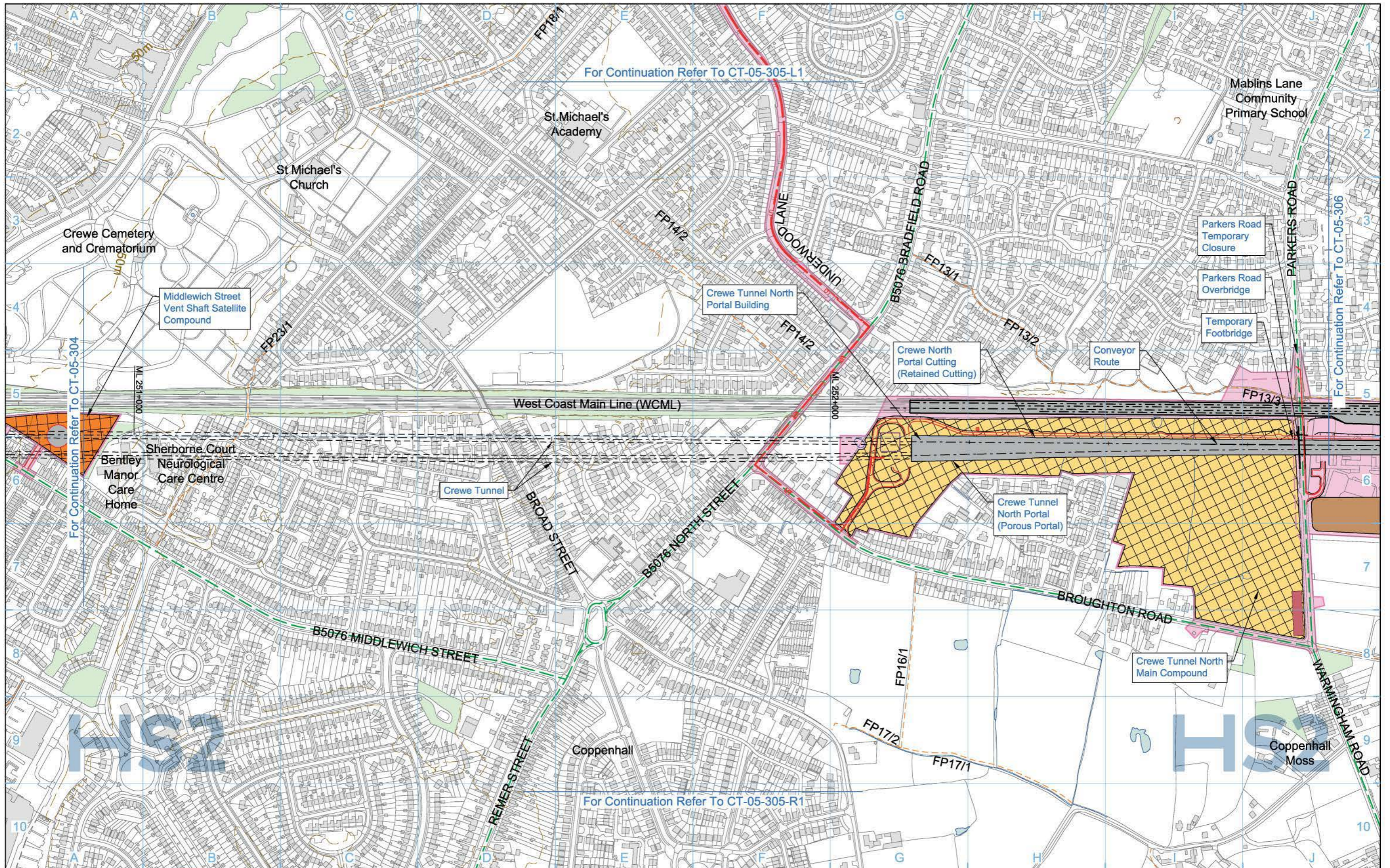
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Metres

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Doc Number: 2DE01-MWJ-EV-DPL-M002-600304 P08 Date: 25/06/21



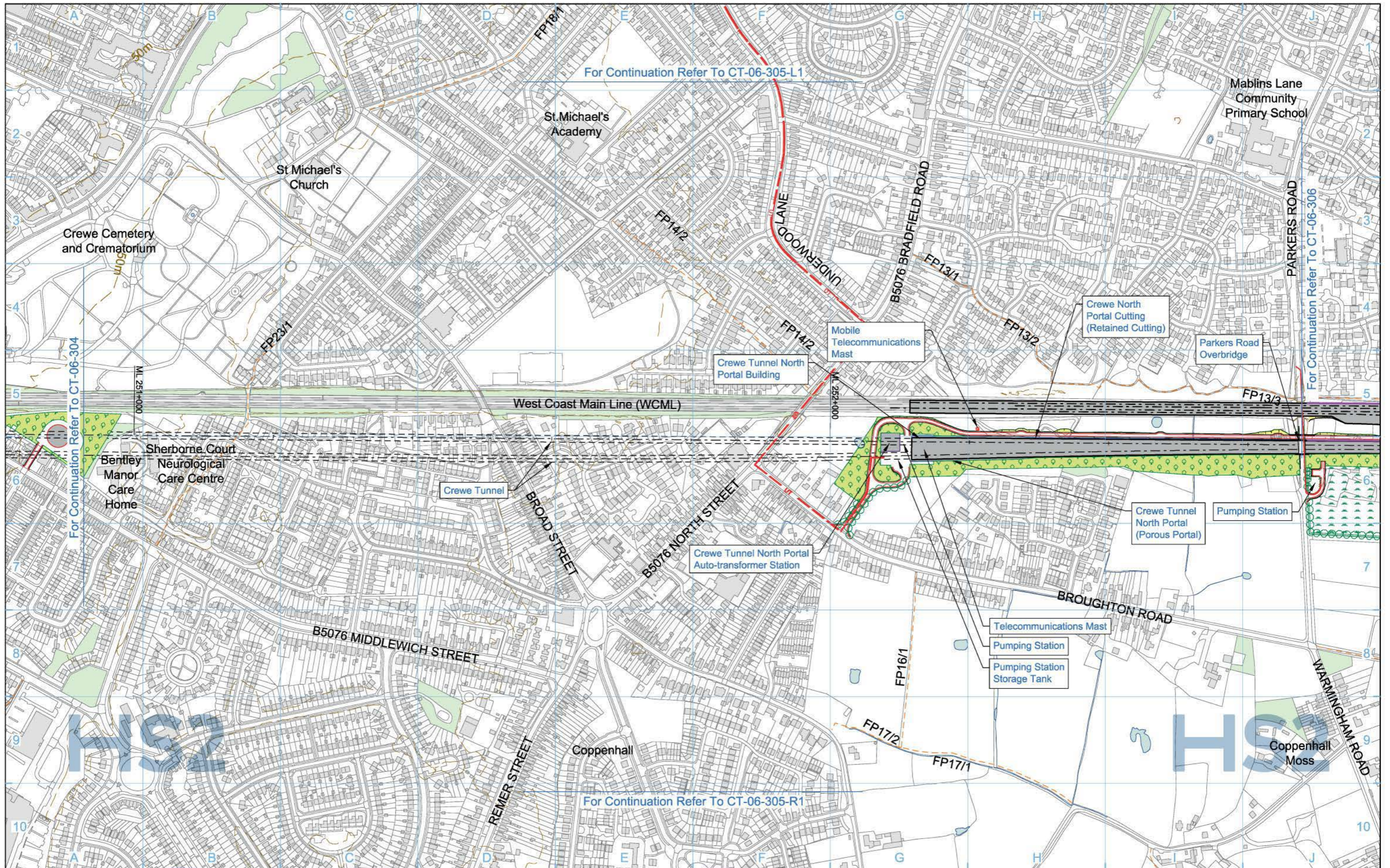
Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Railway Systems Site Ecological mitigation pond (indicative only) Balancing pond Replacement floodplain storage area Pumping station Grassland habitat creation Wetland habitat creation Woodland habitat creation Landscape mitigation planting (scrub / woodland) Hedgerow Grassed areas Public realm Replacement community facility Returned to suitable development use Local placement 		<ul style="list-style-type: none"> County boundary Borough / District boundary Community area boundary New ditches Existing watercourse Watercourse diversion Engineering earthworks Landscape earthworks Rail alignment formation Tunnels external extent Major utility works Existing public right of way New, diverted or realigned public right of way Public right of way closure Existing woodland Existing inland water HS2 access Noise fence barrier Rail alignment 	
Map Number CT-06-304 Map Name Proposed Scheme SES1 and AP1 ES Community Area MA01: Hough to Walley's Green		 Registered in England. Registration number 06791686. Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2021 OS 100049190 Doc Number: 2PT24-MWJ-EV-DPL-M002-600304-P02 Date: 19/05/22	
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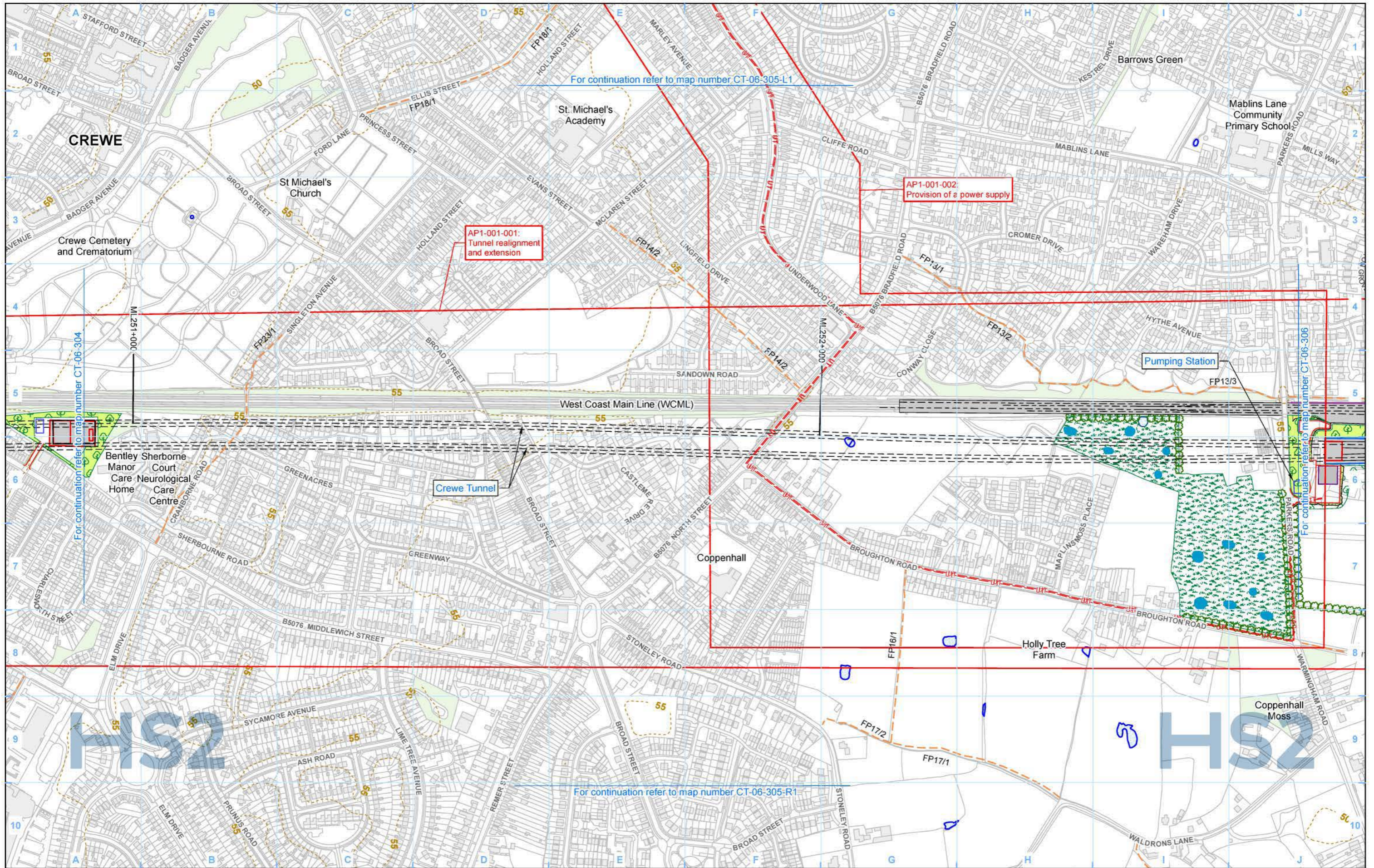
Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compounds
	Satellite construction compounds
	Railway systems compounds
	System railheads
	Temporary material stockpile
	Borrow pit
	Railway systems site
	Storage / prefabrication / laydown areas
	Land potentially required during construction
	Land potentially required for mitigation planting
	Temporary replacement community facility
	Rail alignment formation
	Temporary workers accommodation
	Community area boundary
	Construction traffic route
	Existing public right of way
	Public right of way closure
	Temporary public right of way closure
	Temporary public right of way diversion / realignment
	New, diverted or realigned public right of way
	Landscape earthworks
	Engineering earthworks
	Temporary highway diversion / realignment
	Major utility works
	Major utility works - Removed
	County boundary
	Borough / District boundary
	Tunnels external extent

	Existing woodland
	Existing buildings
	Existing inland water
	Existing contours
	Existing watercourse
	HS2 access
	Rail alignment Chainage (e.g. 10+000)

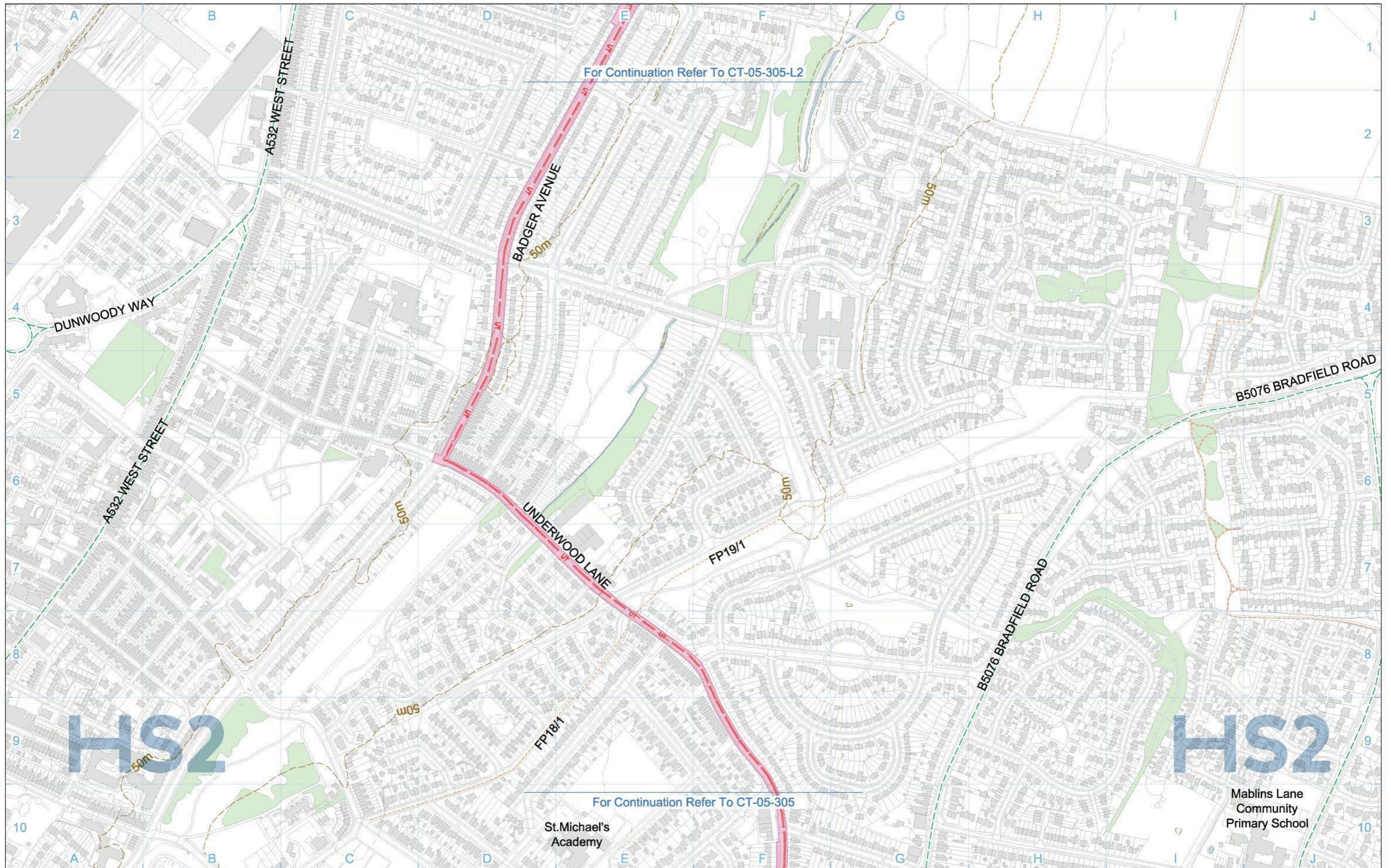
Map Number CT-05-305	<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p>	
Map Name Construction Phase		
Community Area MA01 Hough to Walley's Green	<p>Registered in England Registration No. 05791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA.</p>	<p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250 Metres</p>
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Legend 		Map Number CT-06-305 Map Name Proposed Scheme Community Area MA01 Hough to Walley's Green		 Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA. Scale at A3: 1:5,000 0 50 100 150 200 250 Metres © Crown copyright and database rights 2020. Ordnance Survey Licence Number 100049190. Doc Number: 2DE01-MWJ-EV-DPL-M002-600305 P08 Date: 25/06/21	
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Legend 		Map Number CT-06-305 Map Name Proposed Scheme SES1 and AP1 ES Community Area MA01: Hough to Walley's Green	 <small>Registered in England. Registration number 06791686. Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6GA.</small> <small>© Crown copyright and database rights 2021 OS 100049190</small> Scale at A3: 1:5,000 <small>Doc Number: 2PT24-MWJ-EV-DPL-M002-600305-P03</small> Date: 19/05/22
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compounds
	Satellite construction compounds
	Railway systems compounds
	System railheads
	Temporary material stockpile
	Borrow pit
	Railway systems site
	Storage / prefabrication / laydown areas
	Land potentially required during construction
	Land potentially required for mitigation planting
	Temporary replacement community facility
	Rail alignment formation
	Temporary workers accommodation
	Community area boundary
	Construction traffic route
	Existing public right of way
	Public right of way closure
	Temporary public right of way closure
	Temporary public right of way diversion / realignment
	New, diverted or realigned public right of way
	Landscape earthworks
	Engineering earthworks
	Temporary highway diversion / realignment
	Major utility works
	Major utility works - Removed
	County boundary
	Borough / District boundary
	Tunnels external extent
	Existing woodland
	Existing buildings
	Existing inland water
	Existing contours
	Existing watercourse
	HS2 access
	Rail alignment Chainage (e.g. 10+000)

Map Number	CT-05-305-L1
Map Name	Construction Phase
Community Area	MA01 Hough to Walley's Green

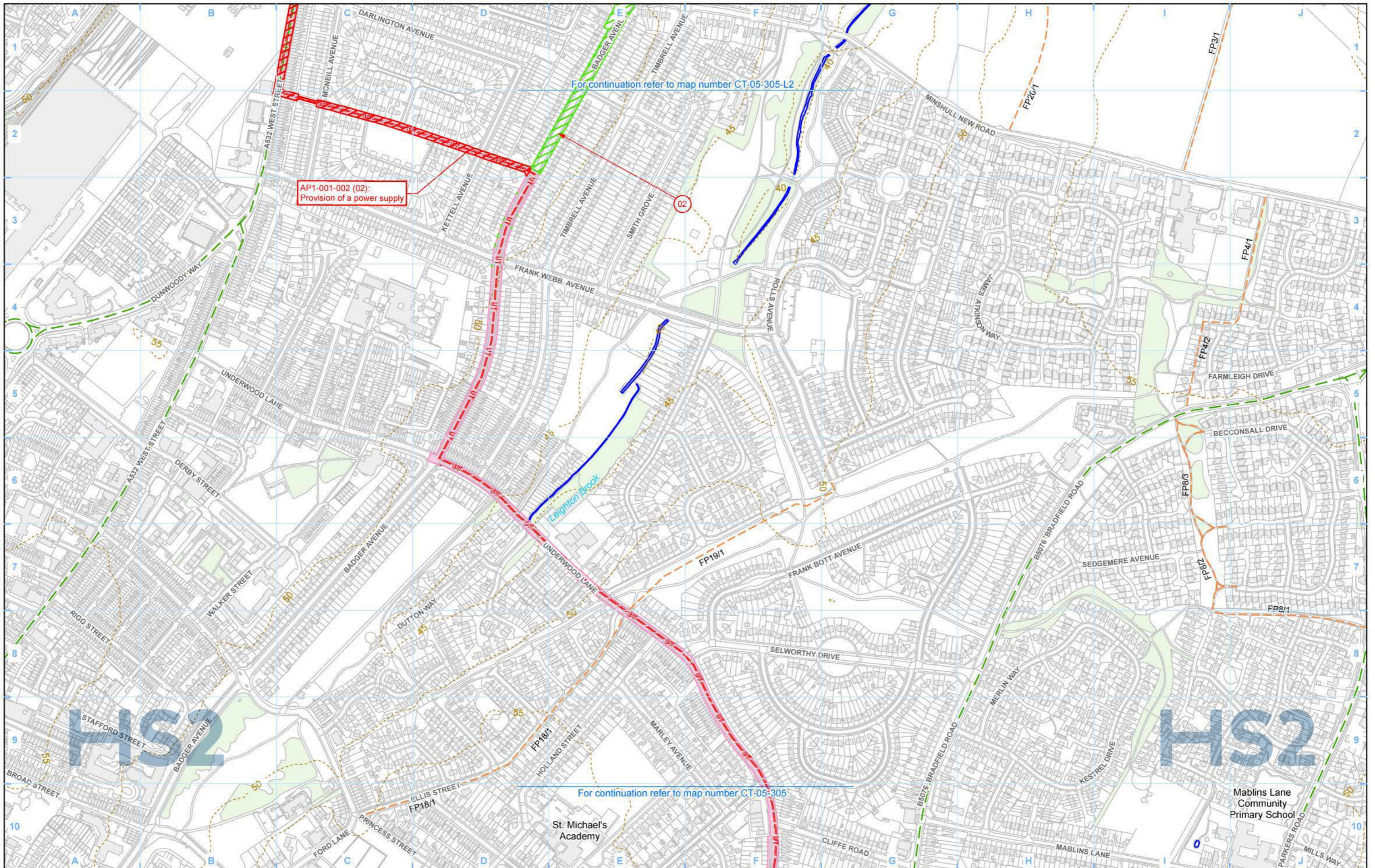
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Legend	
Depot, station, headhouse or portal building	System railheads
Tunnel portal	Temporary material stockpile
Main construction compound	Borrow pit
Satellite construction compound	Railway systems site
Railway systems compounds	Storage / prefabrication / laydown areas
	Land potentially required during construction
	Temporary replacement community facility
	Rail alignment formation
	Temporary workers accommodation
	Community area boundary
	Construction traffic route
Existing public right of way	Public right of way closure
Temporary public right of way closure	Temporary public right of way diversion / realignment
Temporary public right of way	New, diverted or realigned public right of way
Landscape earthworks	Engineering earthworks
Major utility works	Major utility works - Removed
County boundary	Borough / District boundary
Tunnels external extent	Existing buildings
Existing woodland	Existing inland water
Existing watercourse	HS2 access
Rail alignment	Additional land required for current AP
Land no longer required at current AP/SES	

Map Number: CT-05-305-L1
 Map Name: Construction Phase SES1 and AP1 ES
 Community Area MA01: Hough to Walley's Green

HS2

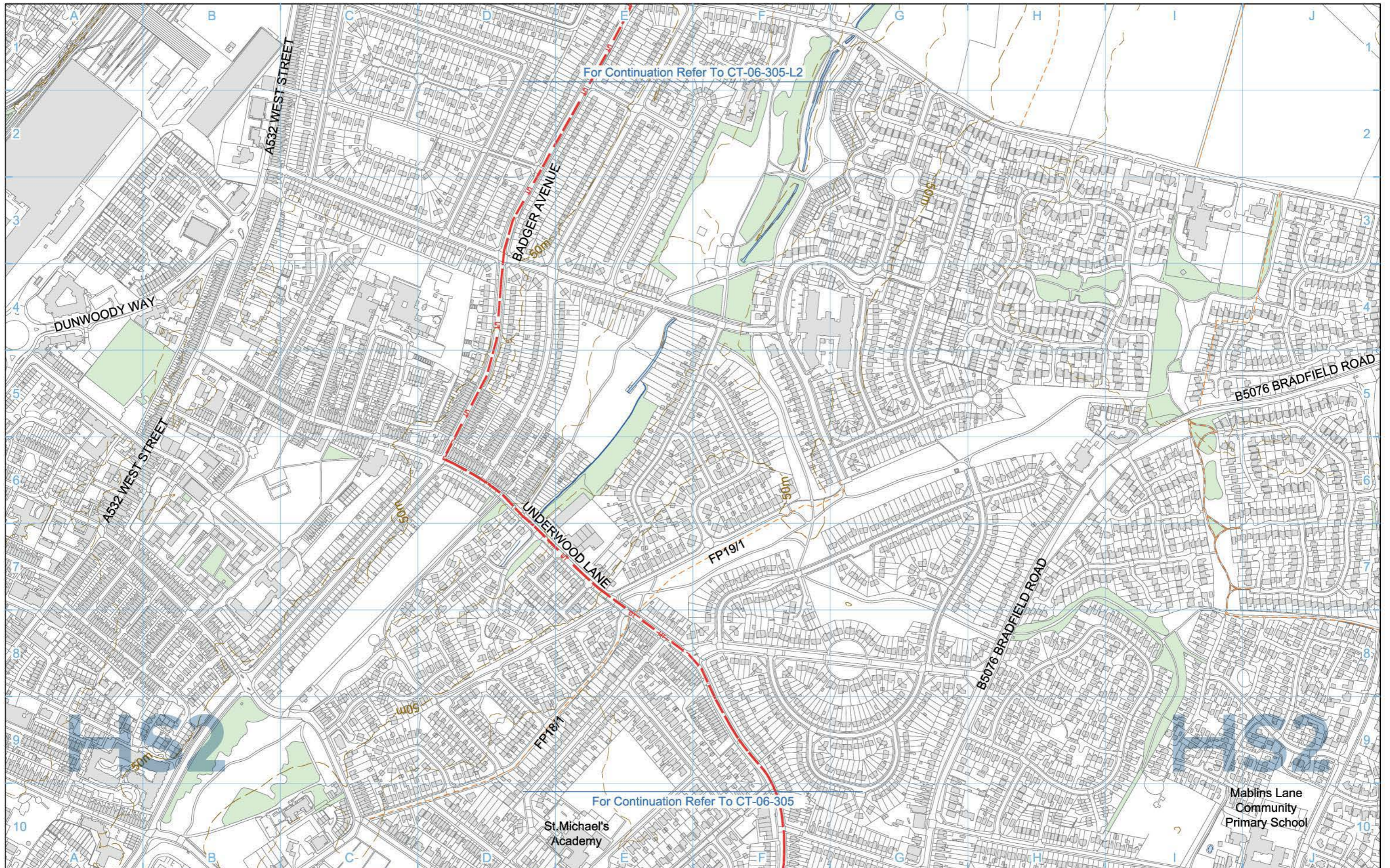
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Legend	
Depot, station, headhouse or portal building	Pumping station
Tunnel portal	Woodland habitat creation
Railway Systems Site	Wetland habitat creation
Ecological mitigation pond (Indicative only)	Grassland habitat creation
Balancing pond	Landscape mitigation planting (scrub / woodland)
Replacement floodplain storage area	Grassed areas
Replacement Community Facility	Public realm
Local placement	Returned to suitable development use
Hedgerow	Engineering earthworks
County boundary	Landscape earthworks
Borough / District boundary	Rail alignment formation
Community area boundary	Tunnels external extent
Watercourse diversion	Major utility works
Existing watercourse	Existing public right of way
New ditches	New, diverted or realigned public right of way
Public right of way closure	Existing woodland

Map Number	CT-06-305-L1
Map Name	Proposed Scheme
Community Area	MA01 Hough to Walley's Green

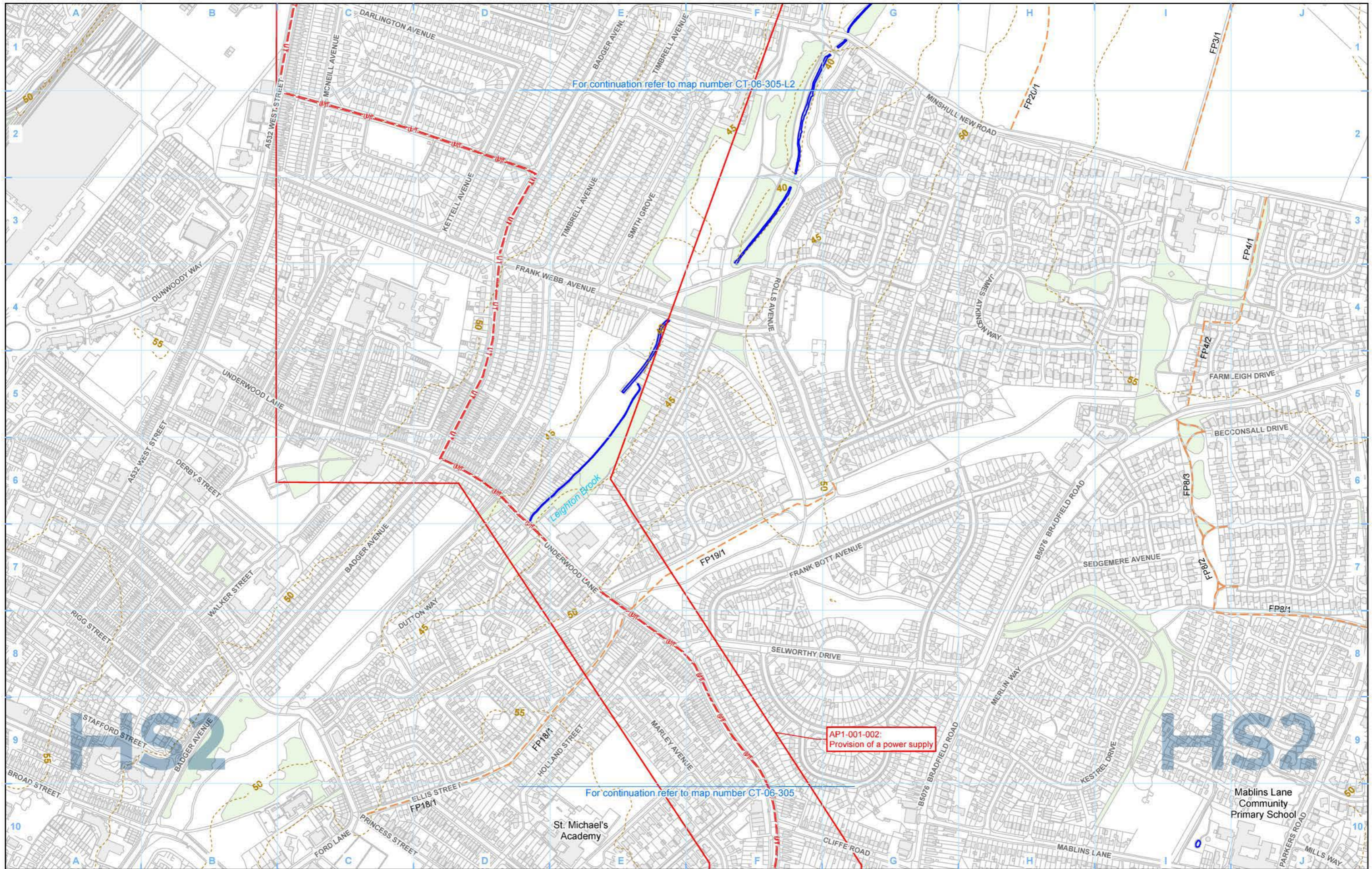
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Legend

	Depot, station, headhouse or portal building		Replacement floodplain storage area		Grassed areas
	Tunnel portal		Pumping station		Public realm
	Railway Systems Site (indicative only)		Grassland habitat creation		Replacement community facility
	Ecological mitigation pond		Wetland habitat creation		Returned to suitable development use
	Balancing pond		Woodland habitat creation		Local placement
			Landscape mitigation planting (scrub / woodland)		Hedgerow

	County boundary		Landscape earthworks		Public right of way closure
	Borough / District boundary		Rail alignment formation		Existing woodland
	Community area boundary		Tunnels external extent		Existing buildings
	New ditches		Existing watercourse		Existing inland water
	Existing watercourse		Major utility works		HS2 access
	Watercourse diversion		Existing public right of way		Noise fence barrier
	Engineering earthworks		New, diverted or realigned public right of way		Rail alignment

	County boundary		Landscape earthworks		Public right of way closure
	Borough / District boundary		Rail alignment formation		Existing woodland
	Community area boundary		Tunnels external extent		Existing buildings
	New ditches		Existing watercourse		Existing inland water
	Existing watercourse		Major utility works		HS2 access
	Watercourse diversion		Existing public right of way		Noise fence barrier
	Engineering earthworks		New, diverted or realigned public right of way		Rail alignment

	County boundary		Landscape earthworks		Public right of way closure
	Borough / District boundary		Rail alignment formation		Existing woodland
	Community area boundary		Tunnels external extent		Existing buildings
	New ditches		Existing watercourse		Existing inland water
	Existing watercourse		Major utility works		HS2 access
	Watercourse diversion		Existing public right of way		Noise fence barrier
	Engineering earthworks		New, diverted or realigned public right of way		Rail alignment

	County boundary		Landscape earthworks		Public right of way closure
	Borough / District boundary		Rail alignment formation		Existing woodland
	Community area boundary		Tunnels external extent		Existing buildings
	New ditches		Existing watercourse		Existing inland water
	Existing watercourse		Major utility works		HS2 access
	Watercourse diversion		Existing public right of way		Noise fence barrier
	Engineering earthworks		New, diverted or realigned public right of way		Rail alignment

	County boundary		Landscape earthworks		Public right of way closure
	Borough / District boundary		Rail alignment formation		Existing woodland
	Community area boundary		Tunnels external extent		Existing buildings
	New ditches		Existing watercourse		Existing inland water
	Existing watercourse		Major utility works		HS2 access
	Watercourse diversion		Existing public right of way		Noise fence barrier
	Engineering earthworks		New, diverted or realigned public right of way		Rail alignment

Map Number: CT-06-305-L1

Map Name: Proposed Scheme SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

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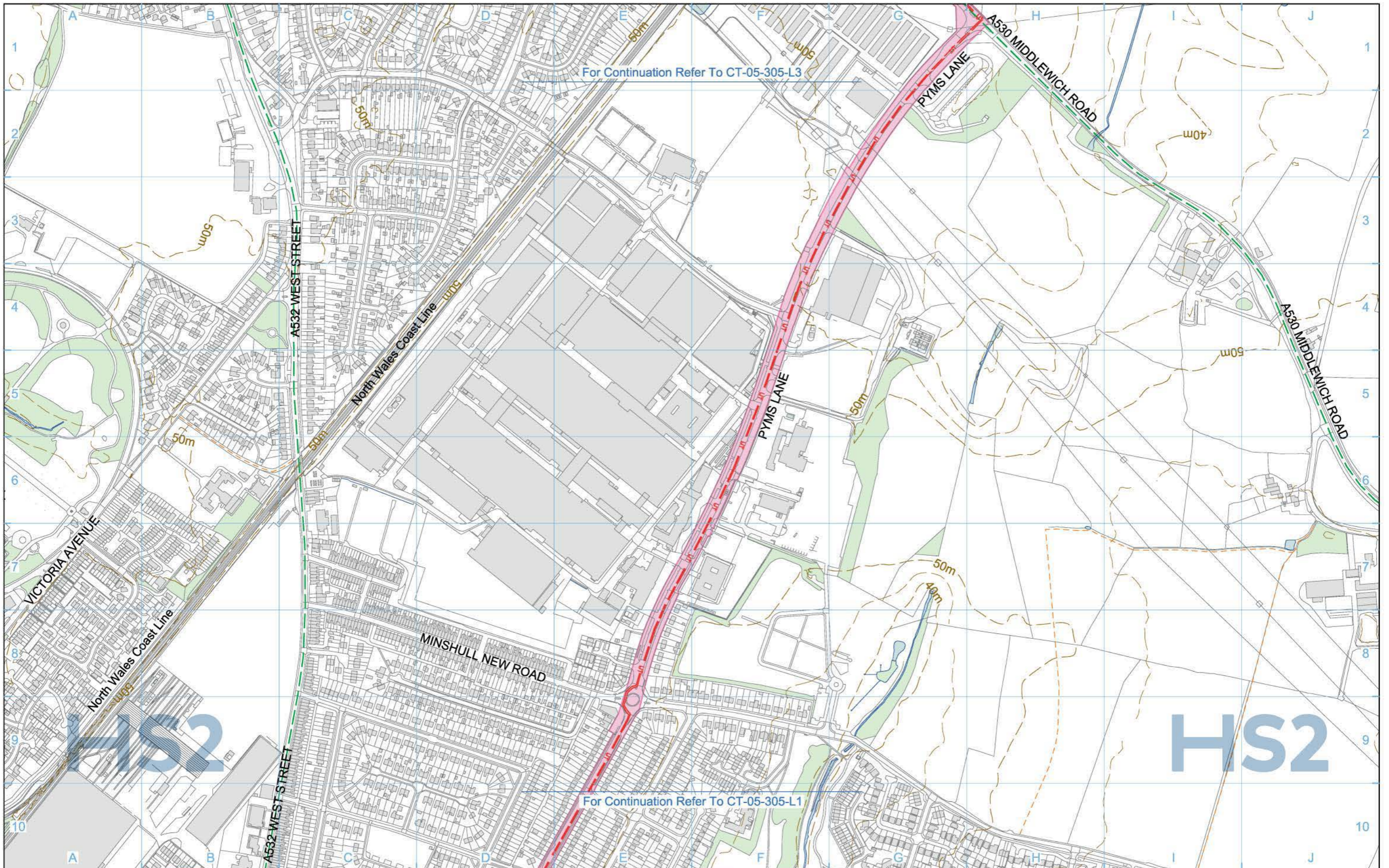
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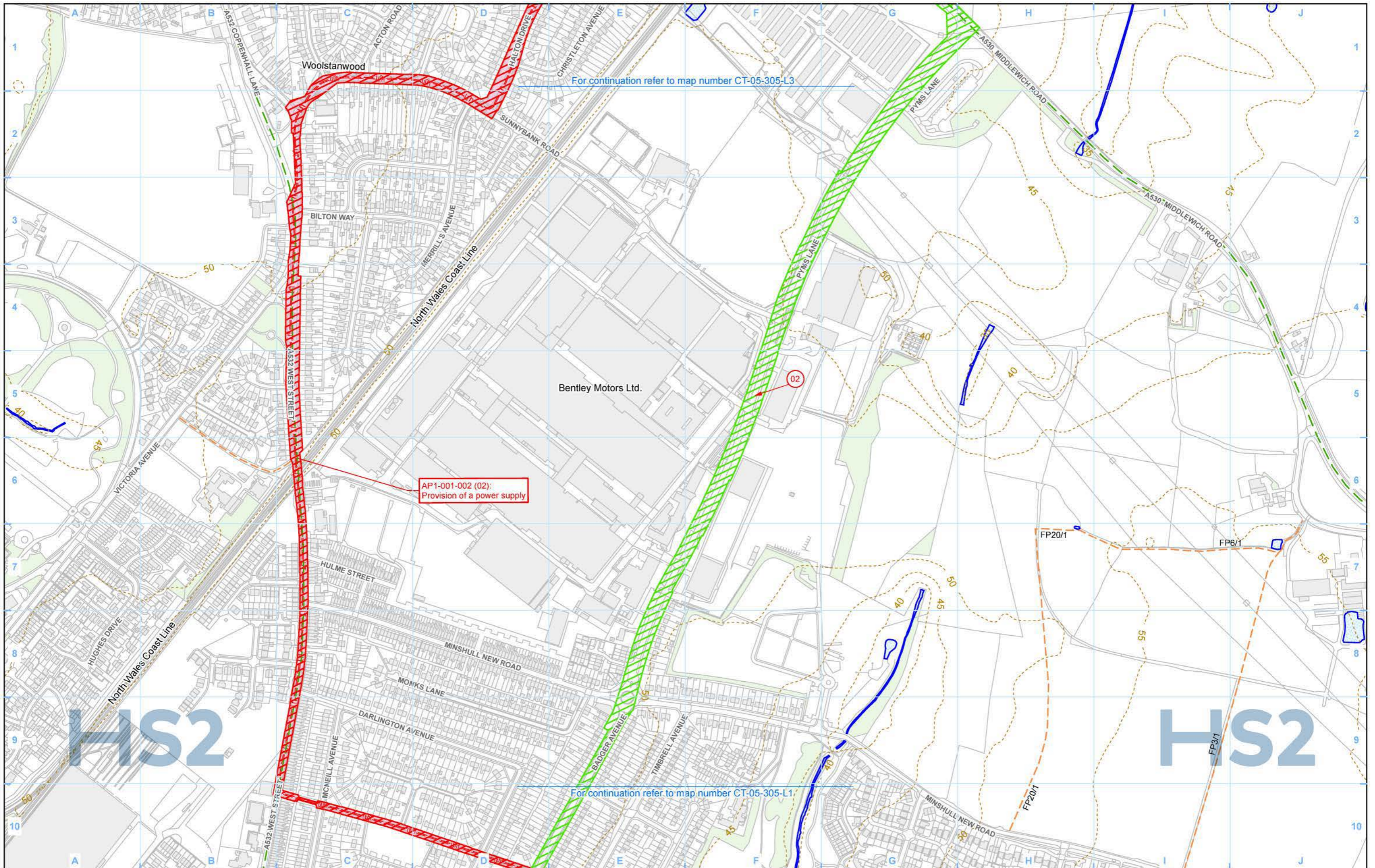
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For Continuation Refer To CT-05-305-L3

For Continuation Refer To CT-05-305-L1

Legend 		Map Number CT-05-305-L2 Map Name Construction Phase Community Area MA01 Hough to Walley's Green	 Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA Scale at A3: 1:5,000 © Crown copyright and database rights 2020. Ordnance Survey Licence Number 100049190. Doc Number: 2DE01-MWJ-EV-DPL-M002-502305 P04 Date: 25/06/21
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Legend

- | | | | | | |
|--|---|---|--|---|---|
| <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Main construction compound Satellite construction compound Railway systems compounds | <ul style="list-style-type: none"> System railheads Temporary material stockpile Borrow pit Railway systems site Storage / prefabrication / laydown areas Land potentially required during construction | <ul style="list-style-type: none"> Land potentially required for mitigation planting Temporary replacement community facility Rail alignment formation Temporary workers accommodation Community area boundary Construction traffic route | <ul style="list-style-type: none"> Existing public right of way Public right of way closure Temporary public right of way closure Temporary public right of way diversion / realignment New, diverted or realigned public right of way | <ul style="list-style-type: none"> Landscape earthworks Engineering earthworks Major utility works Major utility works - Removed County boundary Borough / District boundary Tunnels external extent Existing buildings | <ul style="list-style-type: none"> Existing woodland Existing inland water Existing watercourse HS2 access Rail alignment Additional land required for current AP Land no longer required at current AP/SES |
|--|---|---|--|---|---|

Map Number **CT-05-305-L2**

Map Name **Construction Phase SES1 and AP1 ES**

Community Area MA01: Hough to Walley's Green

HS2

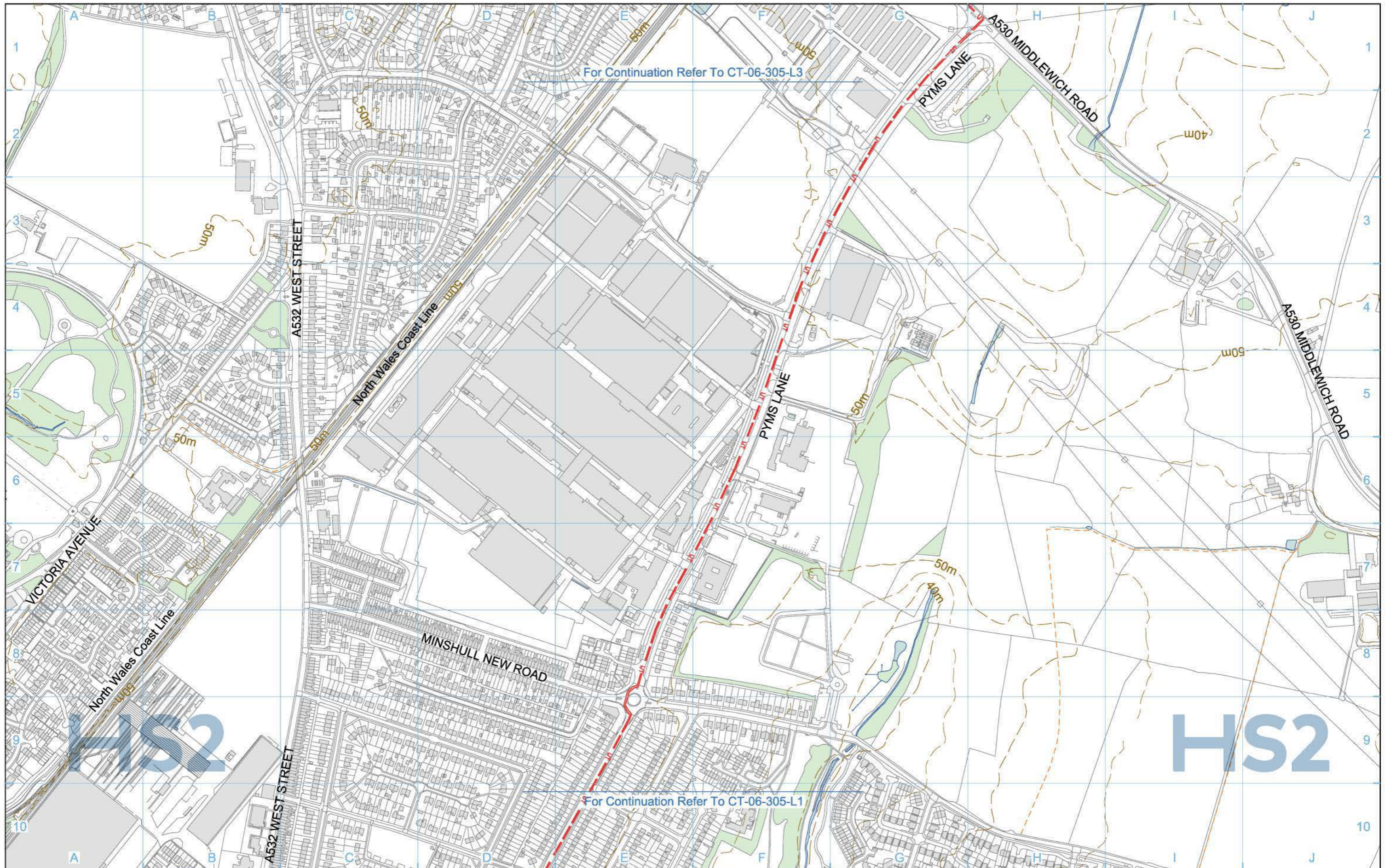
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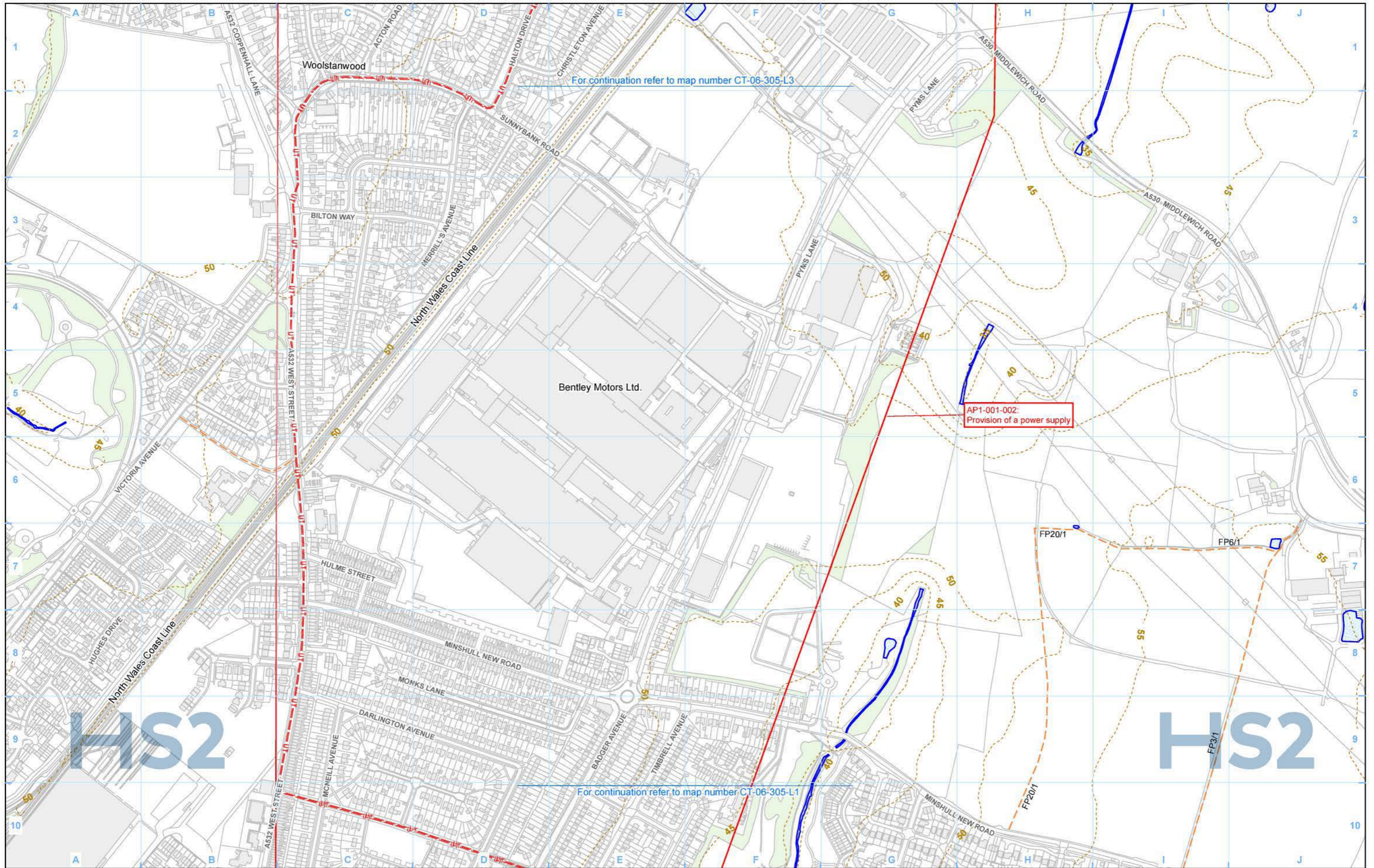
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Date: 19/05/22

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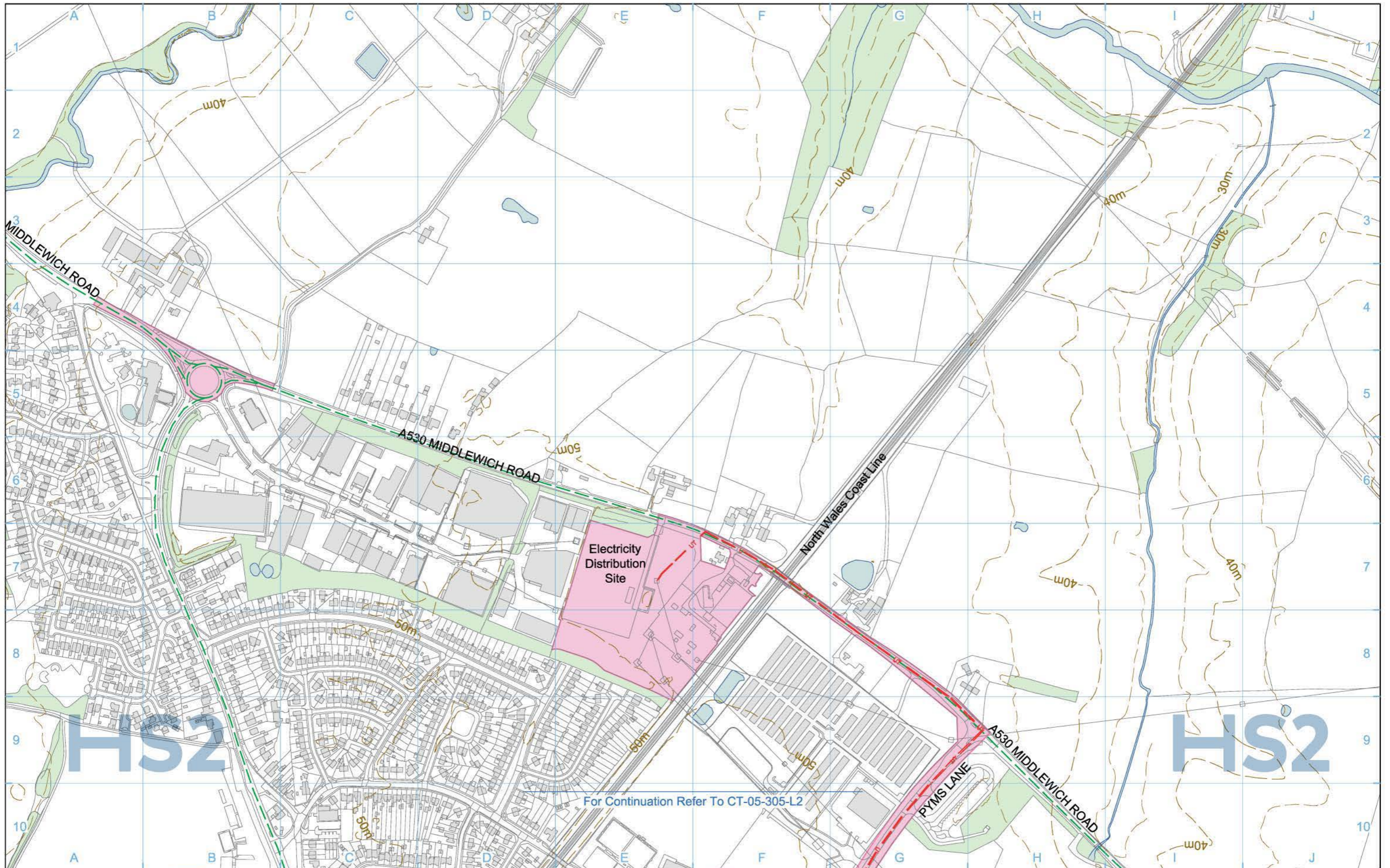
Legend 		Map Number CT-06-305-L2 Map Name Proposed Scheme Community Area MA01 Hough to Walley's Green		 <small>Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA</small> Scale at A3: 1:5,000 <small>© Crown copyright and database rights 2020. Ordnance Survey Licence Number 100049190.</small> Doc Number: 2DE01-MWJ-EV-DPL-M002-602305 P04 Date: 25/06/21	
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For continuation refer to map number CT-06-305-L3

For continuation refer to map number CT-06-305-L1

Legend 		Map Number CT-06-305-L2 Map Name Proposed Scheme SES1 and AP1 ES Community Area MA01: Hough to Walley's Green	 Registered in England. Registration number 06791686. Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2021 OS 100049190 Scale at A3: 1:5,000 Doc Number: 2PT24-MWJ-EV-DPL-M002-602305-P02 Date: 19/05/22
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For Continuation Refer To CT-05-305-L2

Legend			
	Depot, station, headhouse or portal building		Borrow pit
	Tunnel portal		Railway systems site
	Main construction compounds		Storage / prefabrication / laydown areas
	Satellite construction compounds		Land potentially required during construction
	Railway systems compounds		Land potentially required for mitigation planting
	System railheads		Temporary replacement community facility
	Temporary material stockpile		Rail alignment formation
			Temporary workers accommodation
	Community area boundary		Construction traffic route
	Existing public right of way		Public right of way closure
	Temporary public right of way closure		Temporary public right of way diversion / realignment
	New, diverted or realigned public right of way		Major utility works - Removed
	Landscape earthworks		Engineering earthworks
	Temporary highway diversion / realignment		Major utility works
	County boundary		Borough / District boundary
	Tunnels external extent		Existing woodland
			Existing buildings
			Existing inland water
			Existing contours
			Existing watercourse
			HS2 access
			Rail alignment Chainage (e.g. 10+000)

Map Number	CT-05-305-L3
Map Name	Construction Phase
Community Area	MA01 Hough to Walley's Green

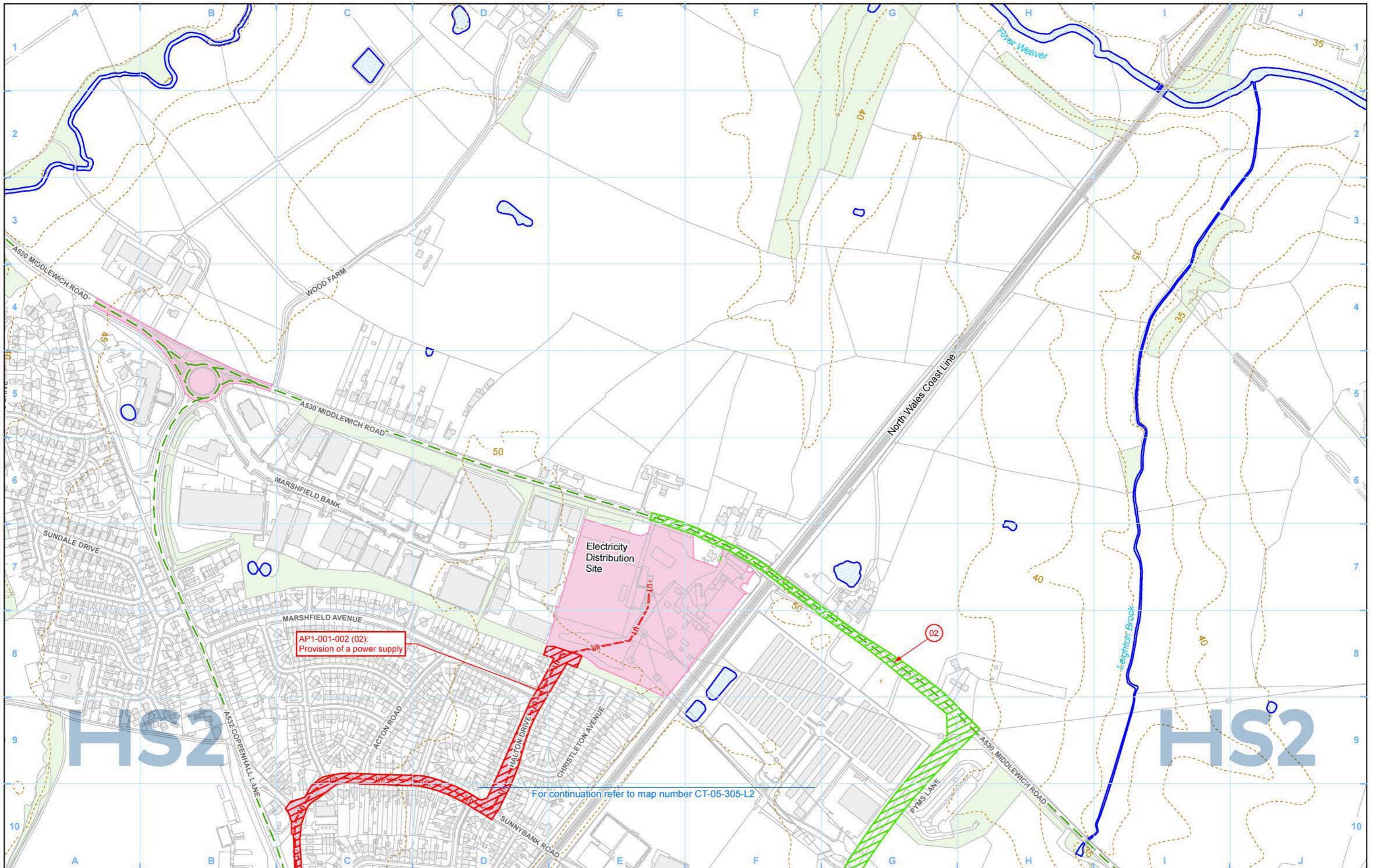
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Legend

- | | | | | | |
|--|---|---|--|---|---|
| <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Main construction compound Satellite construction compound Railway systems compounds | <ul style="list-style-type: none"> System railheads Temporary material stockpile Borrow pit Railway systems site Storage / prefabrication / laydown areas Land potentially required during construction | <ul style="list-style-type: none"> Land potentially required for mitigation planting Temporary replacement community facility Rail alignment formation Temporary workers accommodation Community area boundary Construction traffic route | <ul style="list-style-type: none"> Existing public right of way Public right of way closure Temporary public right of way closure Temporary public right of way diversion / realignment New, diverted or realigned public right of way | <ul style="list-style-type: none"> Landscape earthworks Engineering earthworks Major utility works Major utility works - Removed County boundary Borough / District boundary Tunnels external extent Existing buildings | <ul style="list-style-type: none"> Existing woodland Existing inland water Existing watercourse HS2 access Rail alignment Additional land required for current AP Land no longer required at current AP/SES |
|--|---|---|--|---|---|

Map Number **CT-05-305-L3**

Map Name **Construction Phase SES1 and AP1 ES**

Community Area MA01: Hough to Walley's Green

HS2

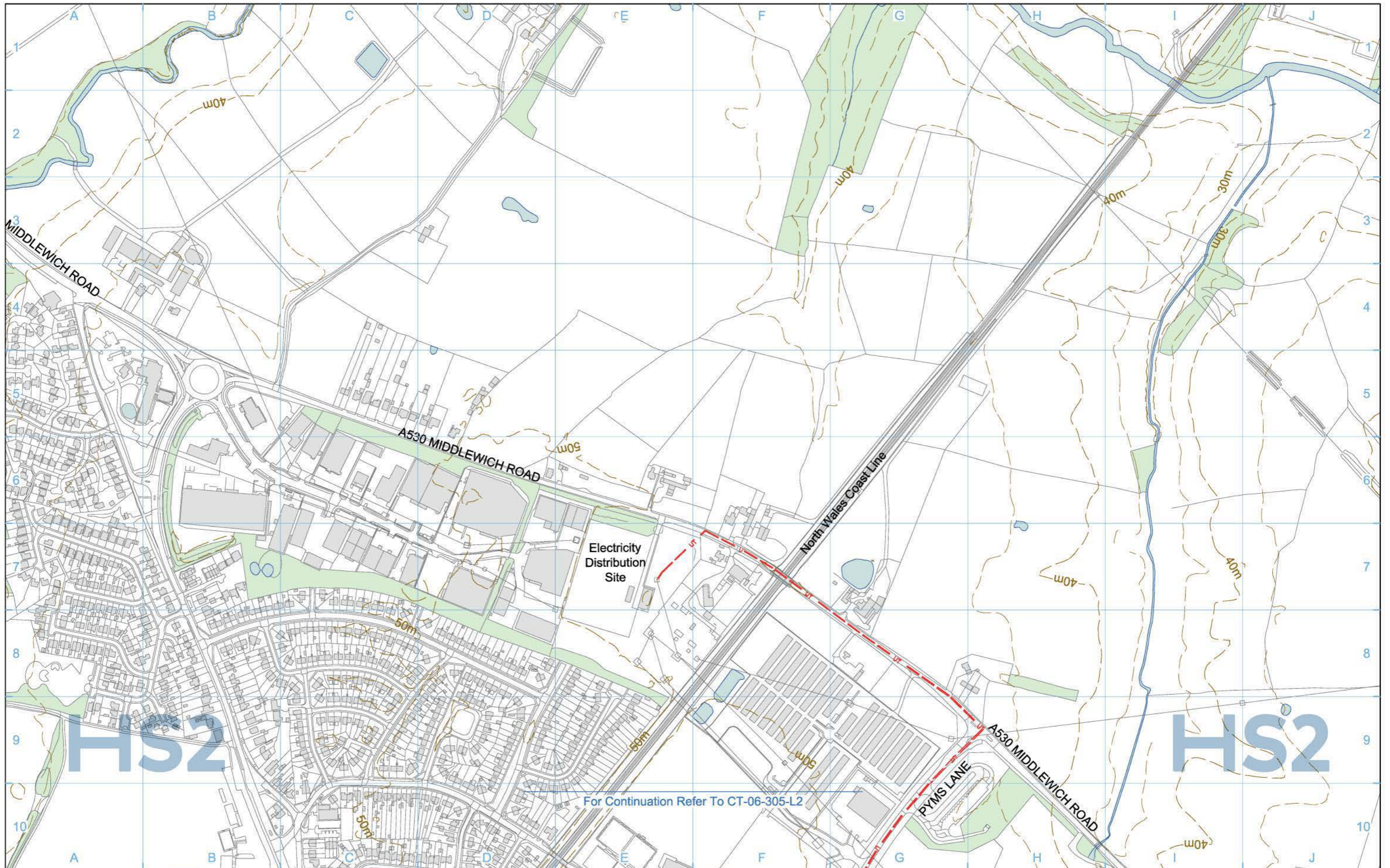
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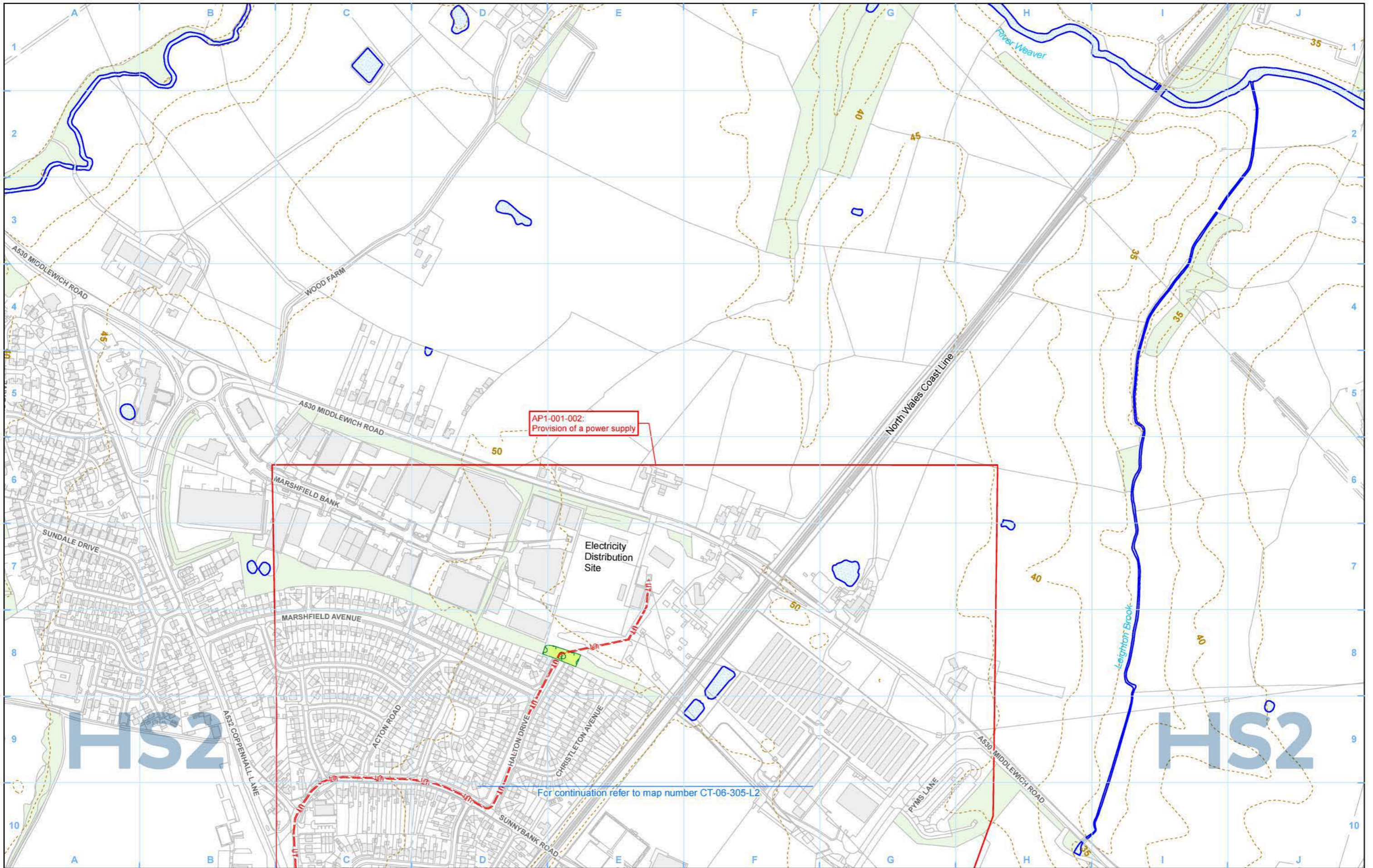
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Map Name Proposed Scheme		Community Area MA01 Hough to Walley's Green	



AP1-001-002:
Provision of a power supply

Electricity
Distribution
Site

For continuation refer to map number CT-06-305-L2

Legend

- | | | | | | |
|--|---|--|--|--|---|
| <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Railway Systems Site Ecological mitigation pond (indicative only) Balancing pond | <ul style="list-style-type: none"> Replacement floodplain storage area Pumping station Grassland habitat creation Wetland habitat creation Woodland habitat creation Landscape mitigation planting (scrub / woodland) | <ul style="list-style-type: none"> Grassed areas Public realm Replacement community facility Returned to suitable development use Local placement Hedgerow | <ul style="list-style-type: none"> County boundary Borough / District boundary Community area boundary New ditches Existing watercourse Watercourse diversion Engineering earthworks | <ul style="list-style-type: none"> Landscape earthworks Rail alignment formation Tunnels external extent Major utility works Existing public right of way New, diverted or realigned public right of way | <ul style="list-style-type: none"> Public right of way closure Existing woodland Existing buildings Existing inland water HS2 access Noise fence barrier Rail alignment |
|--|---|--|--|--|---|

Map Number: CT-06-305-L3

Map Name: Proposed Scheme SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

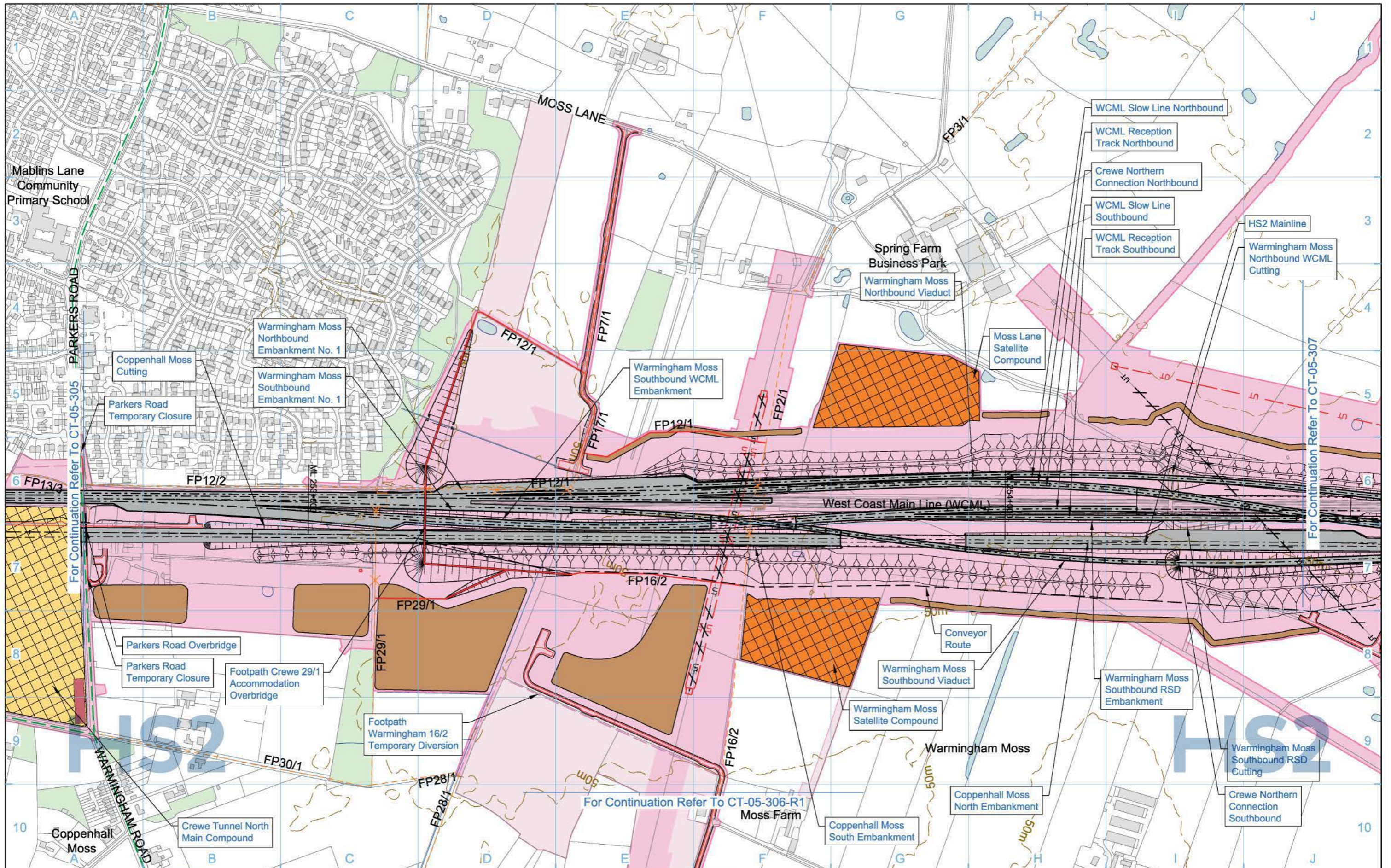
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compounds
	Satellite construction compounds
	Railway systems compounds
	System railheads
	Temporary material stockpile
	Borrow pit
	Railway systems site
	Storage / prefabrication / laydown areas
	Land potentially required during construction
	Land potentially required for mitigation planting
	Temporary replacement community facility
	Rail alignment formation
	Temporary workers accommodation
	Community area boundary
	Construction traffic route
	Existing public right of way
	Public right of way closure
	Temporary public right of way closure
	Temporary public right of way diversion / realignment
	New, diverted or realigned public right of way
	Landscape earthworks
	Engineering earthworks
	Temporary highway diversion / realignment
	Major utility works
	Major utility works - Removed
	County boundary
	Borough / District boundary
	Tunnels external extent
	Existing woodland
	Existing buildings
	Existing inland water
	Existing contours
	Existing watercourse
	HS2 access
	Rail alignment Chainage (e.g. 10+000)

Map Number	CT-05-306
Map Name	Construction Phase
Community Area	MA01 Hough to Walley's Green

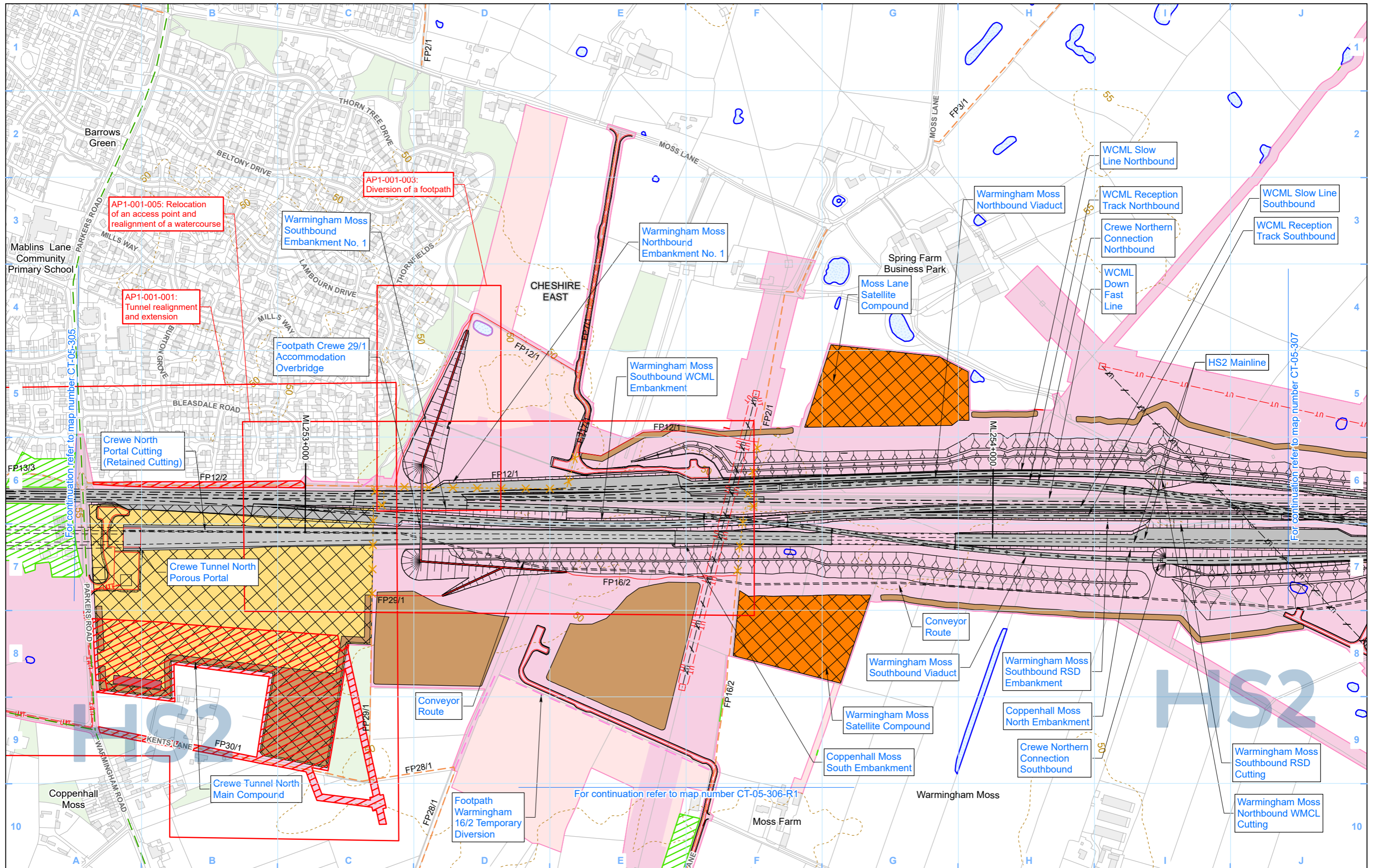
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Legend	
Depot, station, headhouse or portal building	System railheads
Tunnel portal	Temporary material stockpile
Main construction compound	Borrow pit
Satellite construction compound	Railway systems site
Railway systems compounds	Storage / prefabrication / laydown areas
Land potentially required for mitigation planting	Land potentially required during construction
Temporary replacement community facility	Rail alignment formation
Temporary workers accommodation	Community area boundary
Construction traffic route	Existing public right of way
Public right of way closure	Temporary public right of way closure
Temporary public right of way diversion / realignment	New, diverted or realigned public right of way
Landscape earthworks	Engineering earthworks
Major utility works	Major utility works - Removed
County boundary	Borough / District boundary
Tunnels external extent	Existing buildings
Existing woodland	Existing inland water
Existing watercourse	HS2 access
Rail alignment	Additional land required for current AP
Land no longer required at current AP/SES	

Map Number: CT-05-306

Map Name: Construction Phase SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

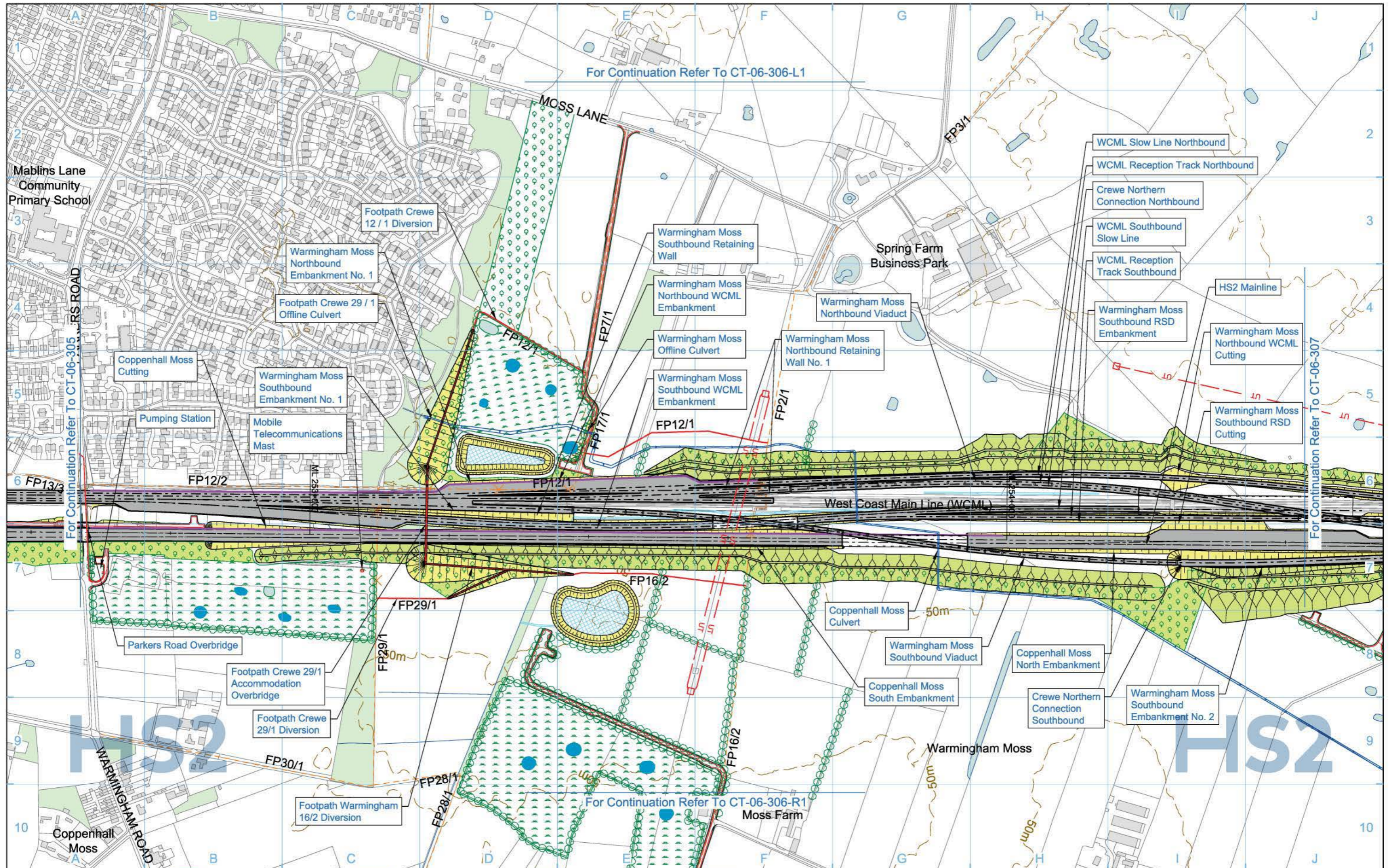
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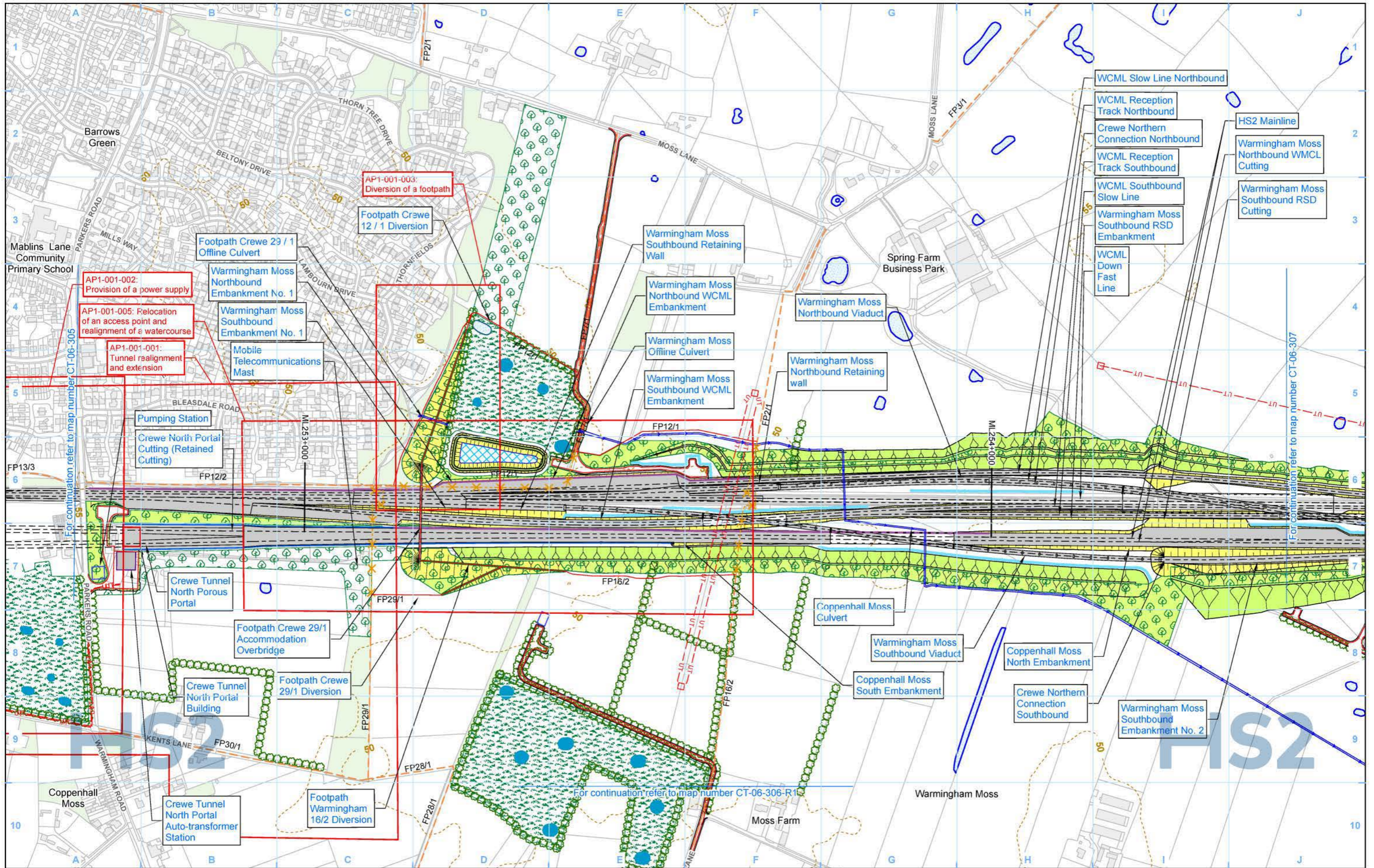
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Doc Number: 2PT24-MWJ-EV-DPL-M002-500306-P03

Date: 19/05/22



Legend 		Map Number CT-06-306 Map Name Proposed Scheme Community Area MA01 Hough to Walley's Green	 Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA Scale at A3: 1:5,000 0 50 100 150 200 250 Metres © Crown copyright and database rights 2020. Ordnance Survey Licence Number 100049190. Doc Number: 2DE01-MWJ-EV-DPL-M002-600306 P08 Date: 26/06/21
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Legend

Depot, station, headhouse or portal building	Replacement floodplain storage area	Grassed areas
Tunnel portal	Pumping station	Public realm
Railway Systems Site	Grassland habitat creation	Replacement community facility
Ecological mitigation pond (indicative only)	Wetland habitat creation	Returned to suitable development use
Balancing pond	Woodland habitat creation	Local placement
	Landscape mitigation planting (scrub / woodland)	Hedgerow

County boundary	Landscape earthworks	Public right of way closure
Borough / District boundary	Rail alignment formation	Existing woodland
Community area boundary	Tunnels external extent	Existing buildings
New ditches	Major utility works	Existing inland water
Existing watercourse	Existing public right of way	HS2 access
Watercourse diversion	New, diverted or realigned public right of way	Noise fence barrier
Engineering earthworks		Rail alignment

AP1-001-002: Provision of a power supply	AP1-001-003: Diversion of a footpath	AP1-001-005: Relocation of an access point and realignment of a watercourse
AP1-001-001: Tunnel realignment and extension		

Footpath Crewe 12 / 1 Diversion	Footpath Crewe 29 / 1 Offline Culvert	Warmingham Moss Northbound Embankment No. 1
Warmingham Moss Southbound Embankment No. 1	Mobile Telecommunications Mast	Pumping Station
Crewe North Portal Cutting (Retained Cutting)	Warmingham Moss Southbound Retaining Wall	Warmingham Moss Northbound WCML Embankment
Warmingham Moss Southbound WCML Embankment	Warmingham Moss Offline Culvert	Warmingham Moss Northbound Viaduct
Warmingham Moss Northbound Retaining wall	Warmingham Moss Southbound Retaining wall	Warmingham Moss Southbound Embankment No. 2
Coppenhall Moss Culvert	Warmingham Moss Southbound Viaduct	Coppenhall Moss North Embankment
Warmingham Moss Southbound Embankment	Coppenhall Moss South Embankment	Crewe Northern Connection Southbound
Warmingham Moss Southbound Embankment No. 2		

Warmingham Moss Southbound Retaining Wall	Warmingham Moss Northbound WCML Embankment	Warmingham Moss Offline Culvert
Warmingham Moss Northbound Viaduct	Warmingham Moss Southbound Retaining wall	Warmingham Moss Southbound WCML Embankment
Warmingham Moss Southbound Retaining wall	Warmingham Moss Southbound WCML Embankment	Warmingham Moss Northbound Retaining wall
Warmingham Moss Southbound WCML Embankment	Warmingham Moss Offline Culvert	Warmingham Moss Northbound Viaduct
Warmingham Moss Northbound Retaining wall	Warmingham Moss Southbound Retaining wall	Warmingham Moss Southbound Embankment No. 2
Coppenhall Moss Culvert	Warmingham Moss Southbound Viaduct	Coppenhall Moss North Embankment
Warmingham Moss Southbound Embankment	Coppenhall Moss South Embankment	Crewe Northern Connection Southbound
Warmingham Moss Southbound Embankment No. 2		

Warmingham Moss Southbound Retaining Wall	Warmingham Moss Northbound WCML Embankment	Warmingham Moss Offline Culvert
Warmingham Moss Northbound Viaduct	Warmingham Moss Southbound Retaining wall	Warmingham Moss Southbound WCML Embankment
Warmingham Moss Southbound Retaining wall	Warmingham Moss Southbound WCML Embankment	Warmingham Moss Northbound Retaining wall
Warmingham Moss Southbound WCML Embankment	Warmingham Moss Offline Culvert	Warmingham Moss Northbound Viaduct
Warmingham Moss Northbound Retaining wall	Warmingham Moss Southbound Retaining wall	Warmingham Moss Southbound Embankment No. 2
Coppenhall Moss Culvert	Warmingham Moss Southbound Viaduct	Coppenhall Moss North Embankment
Warmingham Moss Southbound Embankment	Coppenhall Moss South Embankment	Crewe Northern Connection Southbound
Warmingham Moss Southbound Embankment No. 2		

Map Number: CT-06-306

Map Name: Proposed Scheme SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

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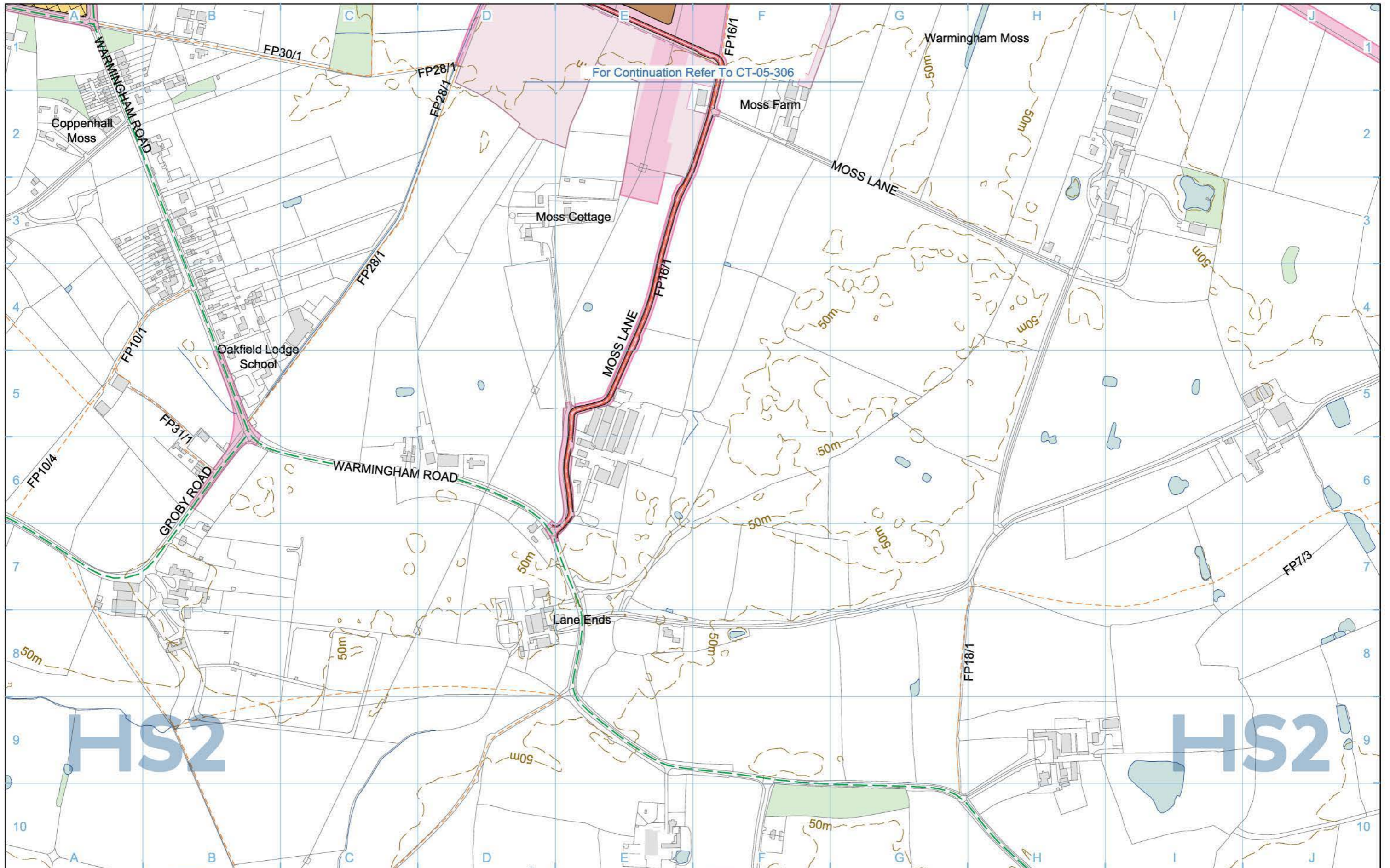
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Metres



Legend	
Depot, station, headhouse or portal building	Borrow pit
Tunnel portal	Railway systems site
Main construction compounds	Storage / prefabrication / laydown areas
Satellite construction compounds	Land potentially required during construction
Railway systems compounds	Land potentially required for mitigation planting
System railheads	Temporary replacement community facility
Temporary material stockpile	Rail alignment formation
Temporary workers accommodation	Temporary public right of way closure
Construction traffic route	Temporary public right of way diversion / realignment
Existing public right of way	New, diverted or realigned public right of way
Public right of way closure	Temporary public right of way closure
Temporary public right of way diversion / realignment	Temporary public right of way closure
Major utility works	Major utility works - Removed
Major utility works - Removed	County boundary
County boundary	Borough / District boundary
Borough / District boundary	Tunnels external extent
Tunnels external extent	Landscape earthworks
Landscape earthworks	Engineering earthworks
Engineering earthworks	Temporary highway diversion / realignment
Temporary highway diversion / realignment	Major utility works
Major utility works	Major utility works - Removed
Major utility works - Removed	County boundary
County boundary	Borough / District boundary
Borough / District boundary	Tunnels external extent
Tunnels external extent	Existing woodland
Existing woodland	Existing buildings
Existing buildings	Existing inland water
Existing inland water	Existing contours
Existing contours	Existing watercourse
Existing watercourse	HS2 access
HS2 access	Rail alignment Chainage (e.g. 10+000)
Rail alignment Chainage (e.g. 10+000)	10+000

Map Number	CT-05-306-R1
Map Name	Construction Phase
Community Area	MA01 Hough to Walley's Green

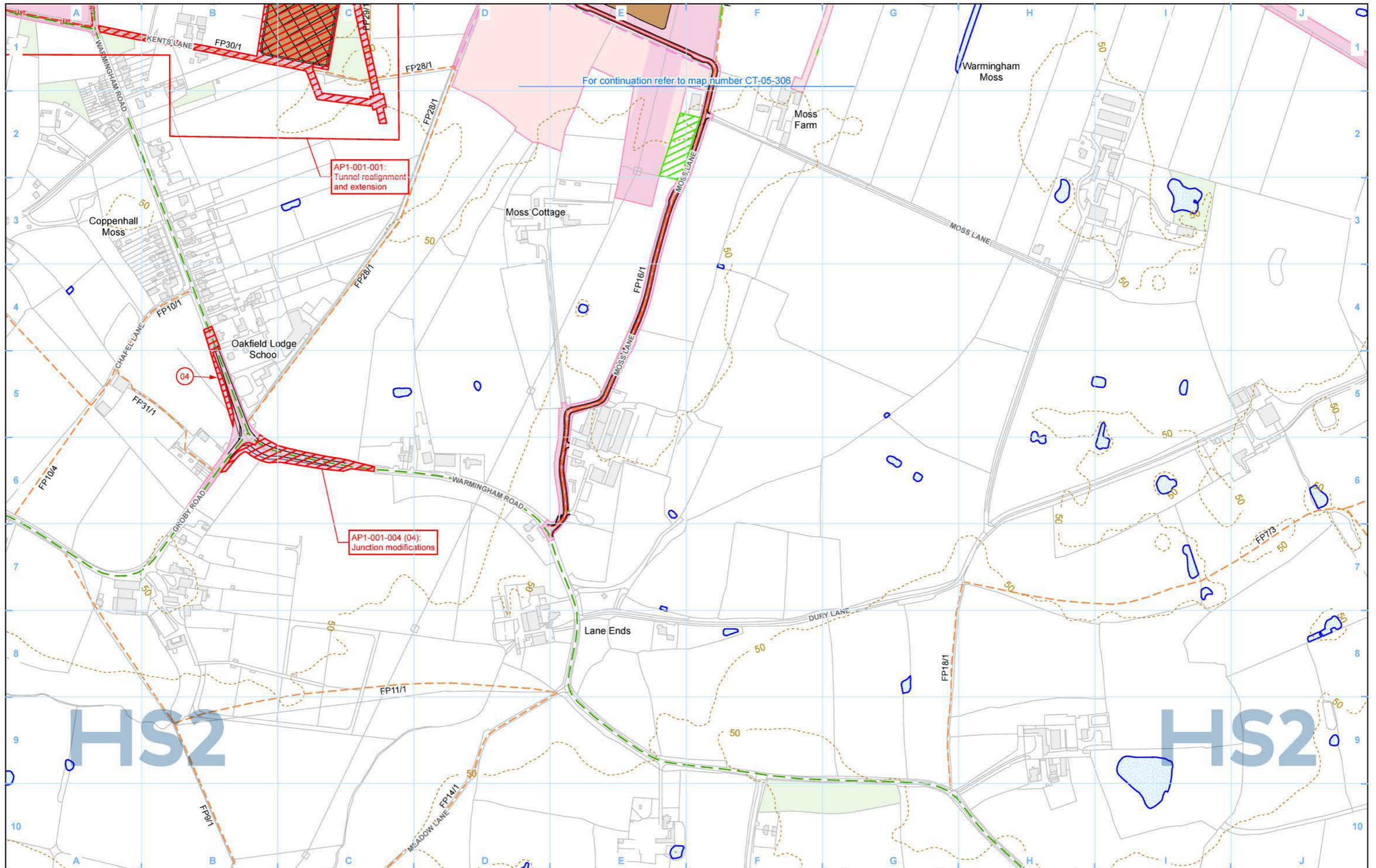
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Metres

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For continuation refer to map number CT-05-306

AP1-001-001:
Tunnel realignment
and extension

AP1-001-004 (04):
Junction modifications

Legend	
Depot, station, headhouse or portal building	System railheads
Tunnel portal	Temporary material stockpile
Main construction compound	Borrow pit
Satellite construction compound	Railway systems site
Railway systems compounds	Storage / prefabrication / laydown areas
Land potentially required for mitigation planting	Temporary replacement community facility
Land potentially required during construction	Rail alignment formation
Land potentially required during construction	Temporary workers accommodation
Land potentially required during construction	Community area boundary
Construction traffic route	Construction traffic route
Existing public right of way	Existing public right of way
Public right of way closure	Temporary public right of way closure
Temporary public right of way	Temporary public right of way
New, diverted or realigned public right of way	New, diverted or realigned public right of way
Landscape earthworks	Landscape earthworks
Engineering earthworks	Engineering earthworks
Major utility works	Major utility works - Removed
Major utility works - Removed	Major utility works - Removed
County boundary	County boundary
Borough / District boundary	Borough / District boundary
Tunnels external extent	Tunnels external extent
Existing buildings	Existing buildings
Existing woodland	Existing woodland
Existing inland water	Existing inland water
Existing watercourse	Existing watercourse
HS2 access	HS2 access
Rail alignment	Rail alignment
Additional land required for current AP	Additional land required for current AP
Land no longer required at current AP/SES	Land no longer required at current AP/SES

Map Number: CT-05-306-R1

Map Name: Construction Phase SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

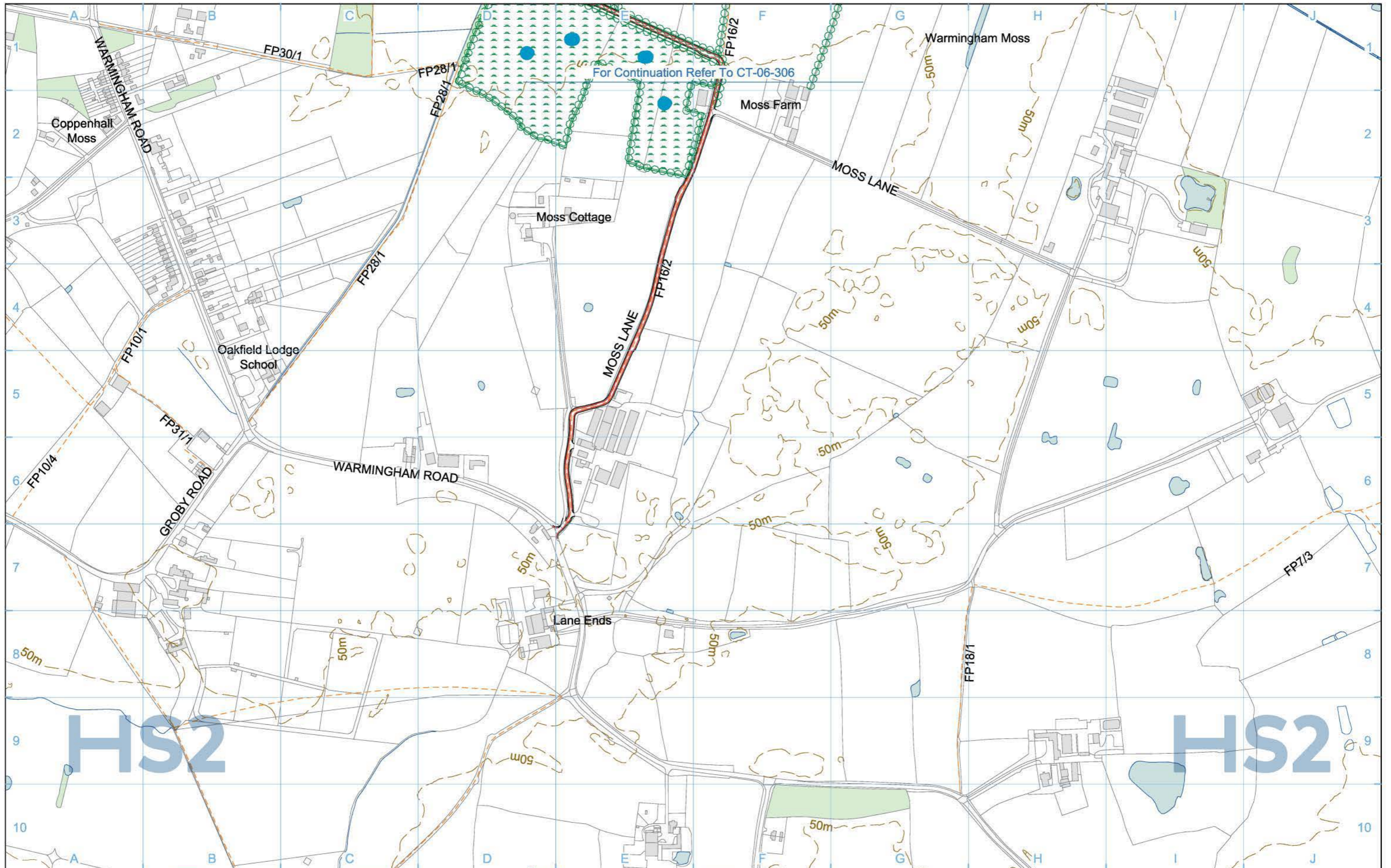
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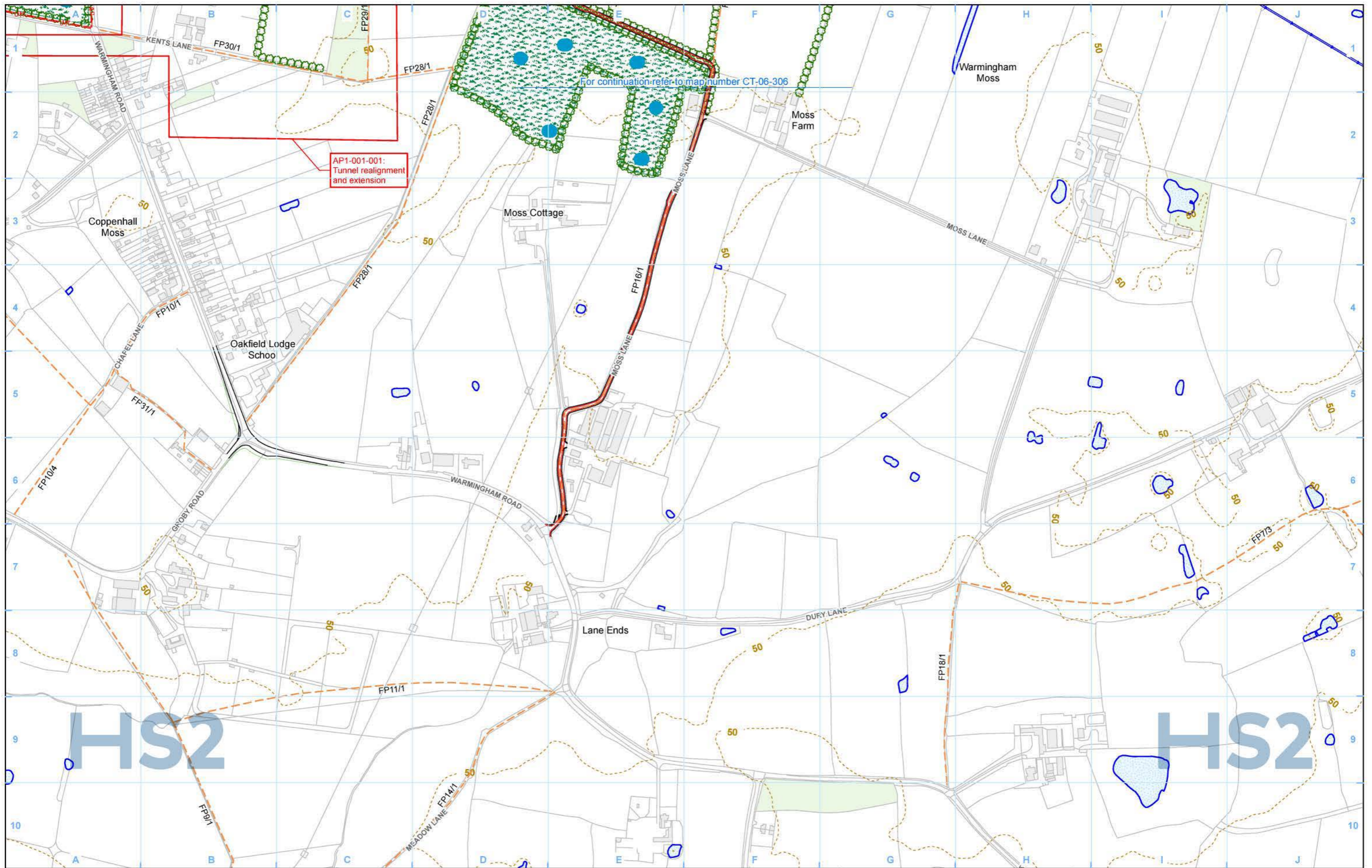
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Map Name Proposed Scheme		Community Area MA01 Hough to Walley's Green	



Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Railway Systems Site
	Ecological mitigation pond (Indicative only)
	Balancing pond
	Replacement floodplain storage area
	Pumping station
	Grassland habitat creation
	Wetland habitat creation
	Woodland habitat creation
	Landscape mitigation planting (scrub / woodland)
	Hedgerow
	Grassed areas
	Public realm
	Replacement community facility
	Returned to suitable development use
	Local placement
	County boundary
	Borough / District boundary
	Community area boundary
	New ditches
	Existing watercourse
	Watercourse diversion
	Engineering earthworks
	Landscape earthworks
	Rail alignment formation
	Tunnels external extent
	Major utility works
	Existing public right of way
	New, diverted or realigned public right of way
	Public right of way closure
	Existing woodland
	Existing buildings
	Existing inland water
	HS2 access
	Noise fence barrier
	Rail alignment

Map Number: CT-06-306-R1

Map Name: Proposed Scheme SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

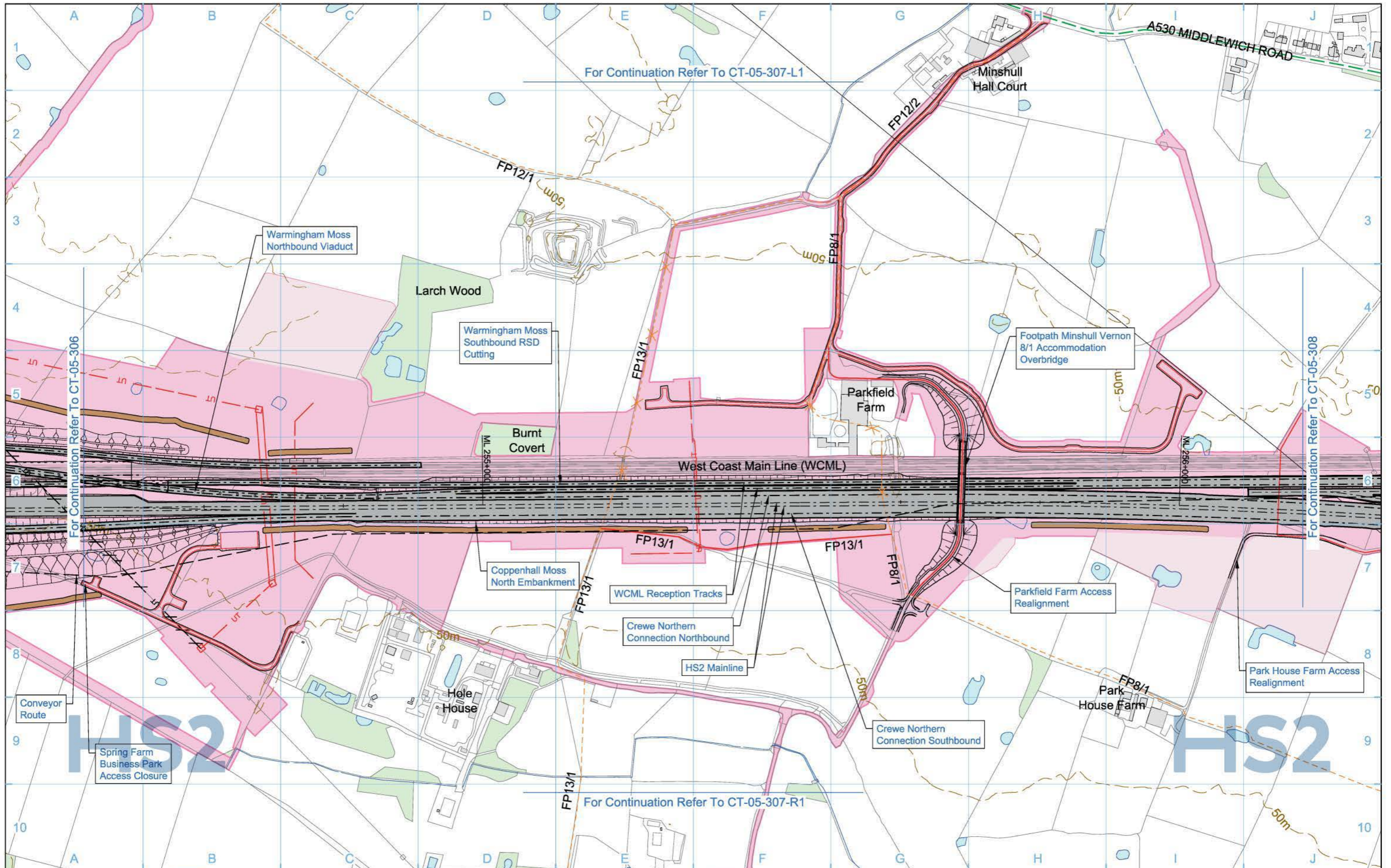
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compounds
	Satellite construction compounds
	Railway systems compounds
	System railheads
	Temporary material stockpile
	Borrow pit
	Railway systems site
	Storage / prefabrication / laydown areas
	Land potentially required during construction
	Land potentially required for mitigation planting
	Temporary replacement community facility
	Rail alignment formation
	Temporary workers accommodation
	Community area boundary
	Construction traffic route
	Existing public right of way
	Public right of way closure
	Temporary public right of way closure
	Temporary public right of way diversion / realignment
	New, diverted or realigned public right of way
	Landscape earthworks
	Engineering earthworks
	Temporary highway diversion / realignment
	Major utility works
	Major utility works - Removed
	County boundary
	Borough / District boundary
	Tunnels external extent

Map Number	CT-05-307
Map Name	Construction Phase
Community Area	MA01 Hough to Walley's Green

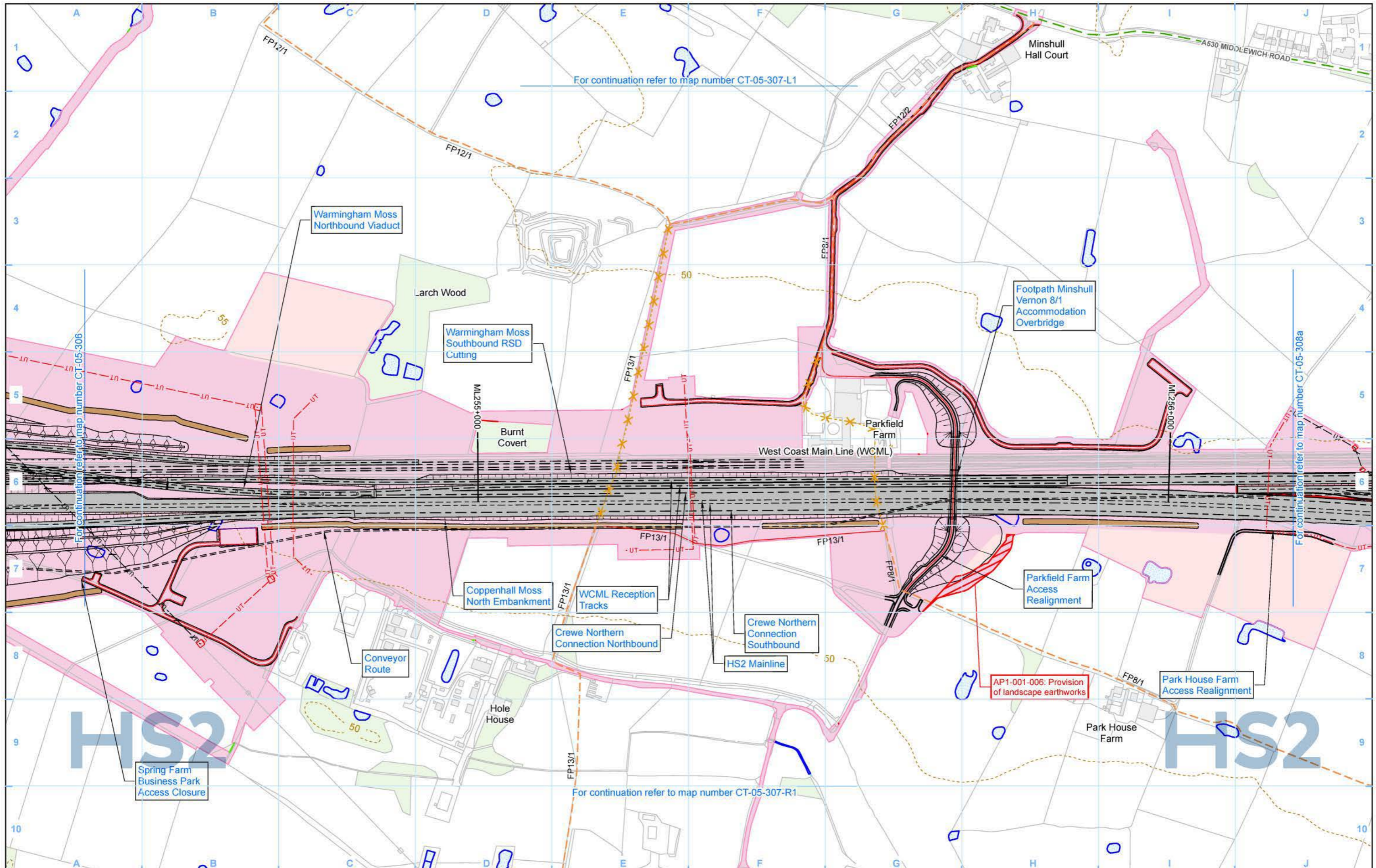
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Legend

Depot, station, headhouse or portal building	System railheads	Land potentially required for mitigation planting	Existing public right of way	Landscape earthworks	Existing woodland
Tunnel portal	Temporary material stockpile	Temporary replacement community facility	Public right of way closure	Engineering earthworks	Existing inland water
Main construction compound	Borrow pit	Rail alignment formation	Temporary public right of way closure	Major utility works	Existing watercourse
Satellite construction compound	Railway systems site	Temporary workers accommodation	Temporary public right of way diversion / realignment	Major utility works - Removed	HS2 access
Railway systems compounds	Storage / prefabrication / laydown areas	Community area boundary	New, diverted or realigned public right of way	County boundary	Rail alignment
	Land potentially required during construction	Construction traffic route		Borough / District boundary	Additional land required for current AP
				Tunnels external extent	Land no longer required at current AP/SES
				Existing buildings	

Spring Farm Business Park Access Closure	Conveyor Route	Coppenhall Moss North Embankment	WCML Reception Tracks	Crewe Northern Connection Northbound	Crewe Northern Connection Southbound	HS2 Mainline	AP1-001-006: Provision of landscape earthworks	Park House Farm Access Realignment	Parkfield Farm Access Realignment
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Warmingham Moss Northbound Viaduct	Larch Wood	Warmingham Moss Southbound RSD Cutting	Burnt Covert	Parkfield Farm	West Coast Main Line (WCML)	Footpath Minshull Vernon 8/1 Accommodation Overbridge	Minshull Hall Court	A530 MIDDLEWICH ROAD
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ML255+000	FP12/1	FP12/2	FP8/1	FP13/1	FP13/1	FP8/1	FP8/1	FP8/1
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For continuation refer to map number CT-05-307-L1	For continuation refer to map number CT-05-307-R1
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Map Number	CT-05-307
Map Name	Construction Phase SES1 and AP1 ES
Community Area MA01:	Hough to Walley's Green

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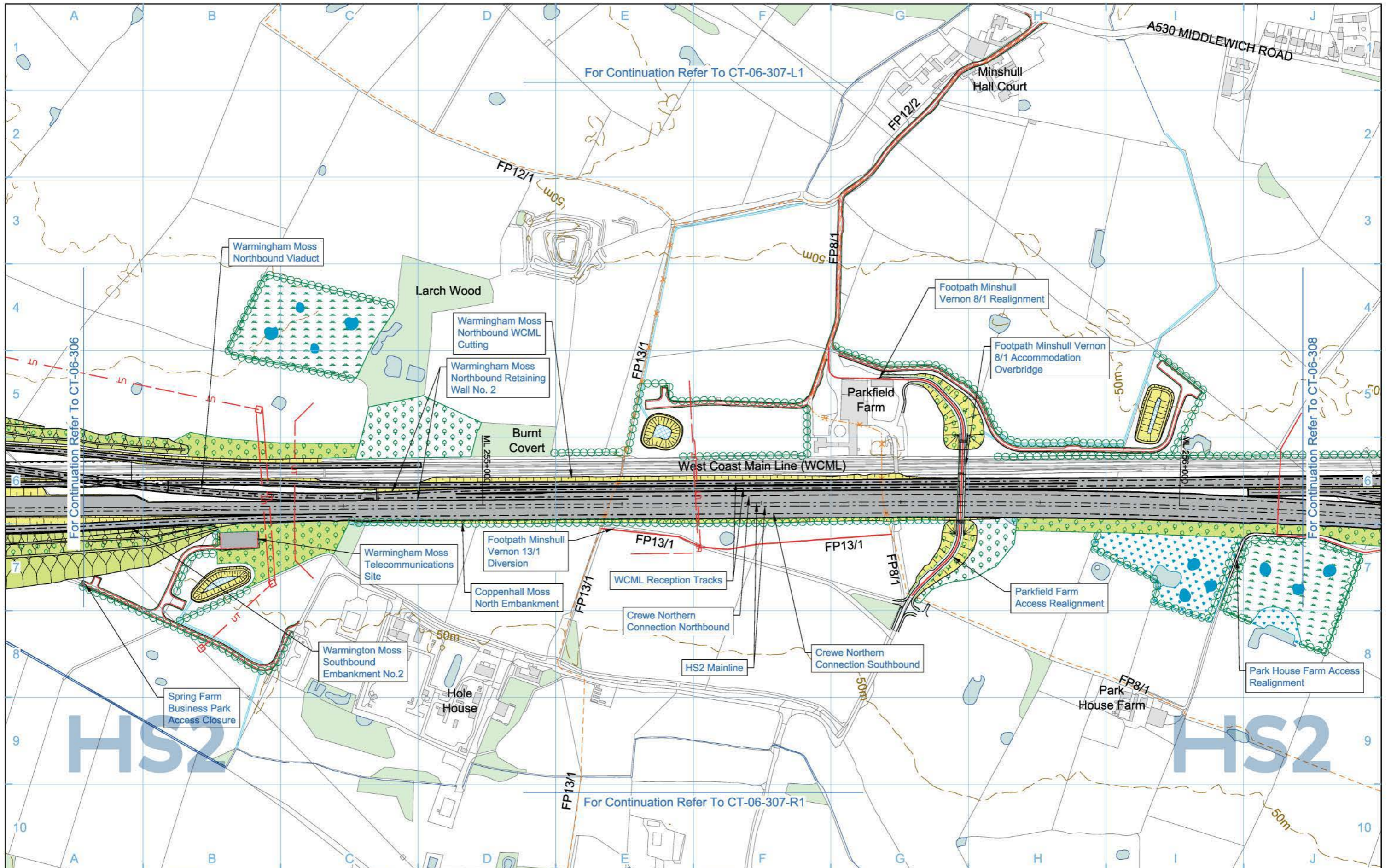
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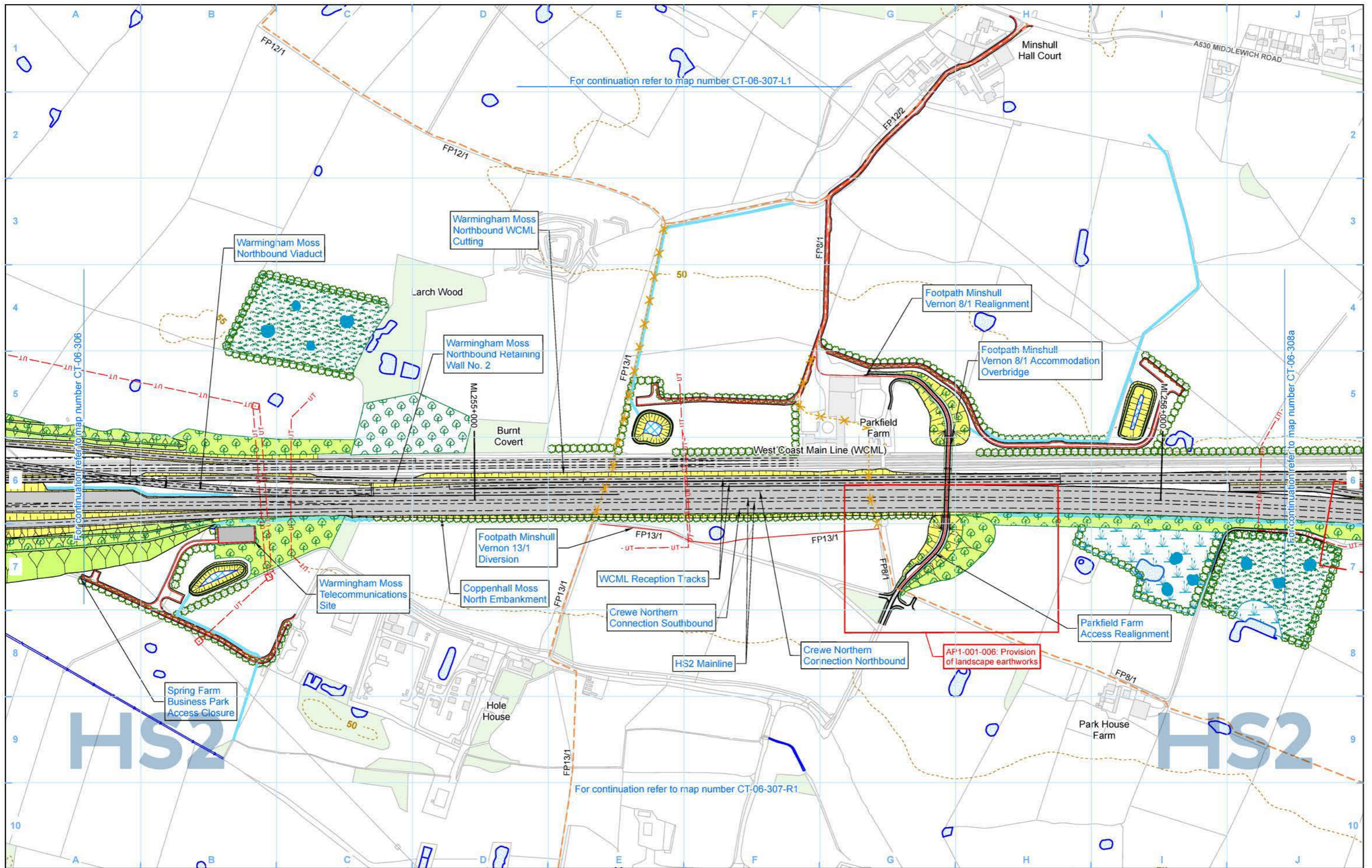
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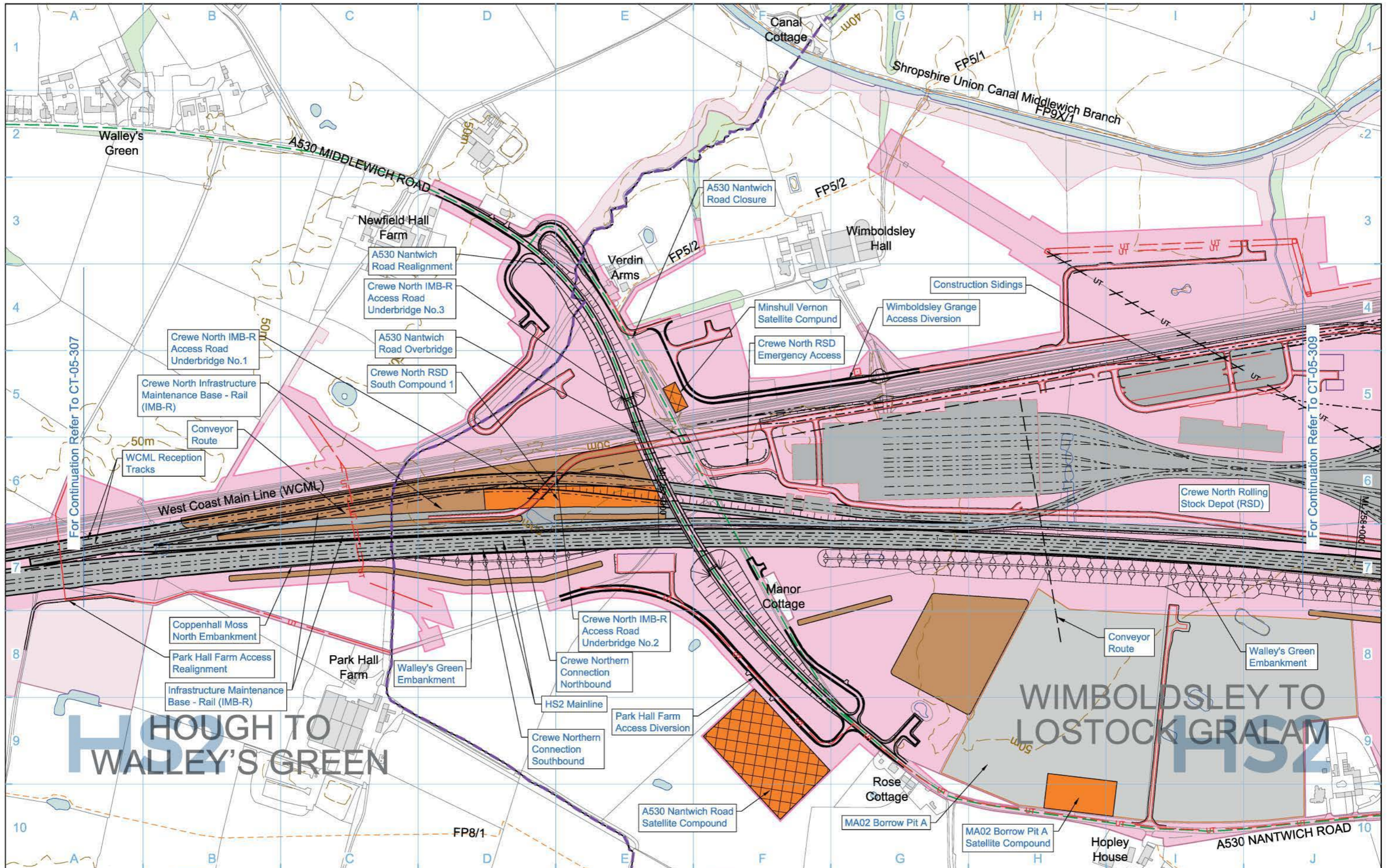
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Legend 		Map Number CT-06-307 Map Name Proposed Scheme Community Area MA01 Hough to Walley's Green		 Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA. Scale at A3: 1:5,000 0 50 100 150 200 250 Metres © Crown copyright and database rights 2020. Ordnance Survey Licence Number 100049190. Doc Number: 2DE01-MWJ-EV-DPL-M002-600307 P09 Date: 25/06/21	
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Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Railway Systems Site Ecological mitigation pond (Indicative only) Balancing pond Replacement floodplain storage area Pumping station Grassland habitat creation Wetland habitat creation Woodland habitat creation Landscape mitigation planting (scrub / woodland) Hedgerow Grassed areas Public realm Replacement community facility Returned to suitable development use Local placement 		<ul style="list-style-type: none"> County boundary Borough / District boundary Community area boundary New ditches Existing watercourse Watercourse diversion Engineering earthworks Landscape earthworks Rail alignment formation Tunnels external extent Major utility works Existing public right of way New, diverted or realigned public right of way Public right of way closure Existing woodland Existing buildings Existing inland water HS2 access Noise fence barrier Rail alignment 		<p>Map Number: CT-06-307</p> <p>Map Name: Proposed Scheme SES1 and AP1 ES</p> <p>Community Area MA01: Hough to Walley's Green</p>		<p>HS2</p> <p>Registered in England. Registration number 06791686. Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2021 OS 100049190</p> <p>Doc Number: 2PT24-MWJ-EV-DPL-M002-600307-P02</p> <p>Date: 19/05/22</p> <p>Scale at A3: 1:5,000</p>	
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compounds
	Satellite construction compounds
	Railway systems compounds
	System railheads
	Temporary material stockpile
	Borrow pit
	Railway systems site
	Storage / prefabrication / laydown areas
	Land potentially required during construction
	Land potentially required for mitigation planting
	Temporary replacement community facility
	Rail alignment formation
	Temporary workers accommodation
	Community area boundary
	Construction traffic route
	Existing public right of way
	Public right of way closure
	Temporary public right of way closure
	Temporary public right of way diversion / realignment
	New, diverted or realigned public right of way
	Landscape earthworks
	Engineering earthworks
	Temporary highway diversion / realignment
	Major utility works
	Major utility works - Removed
	County boundary
	Borough / District boundary
	Tunnels external extent

	Existing woodland
	Existing buildings
	Existing inland water
	Existing contours
	Existing watercourse
	HS2 access
	Rail alignment Chainage (e.g. 10+000)

Map Number	CT-05-308a
Map Name	Construction Phase
Community Area	MA01 Hough to Walley's Green

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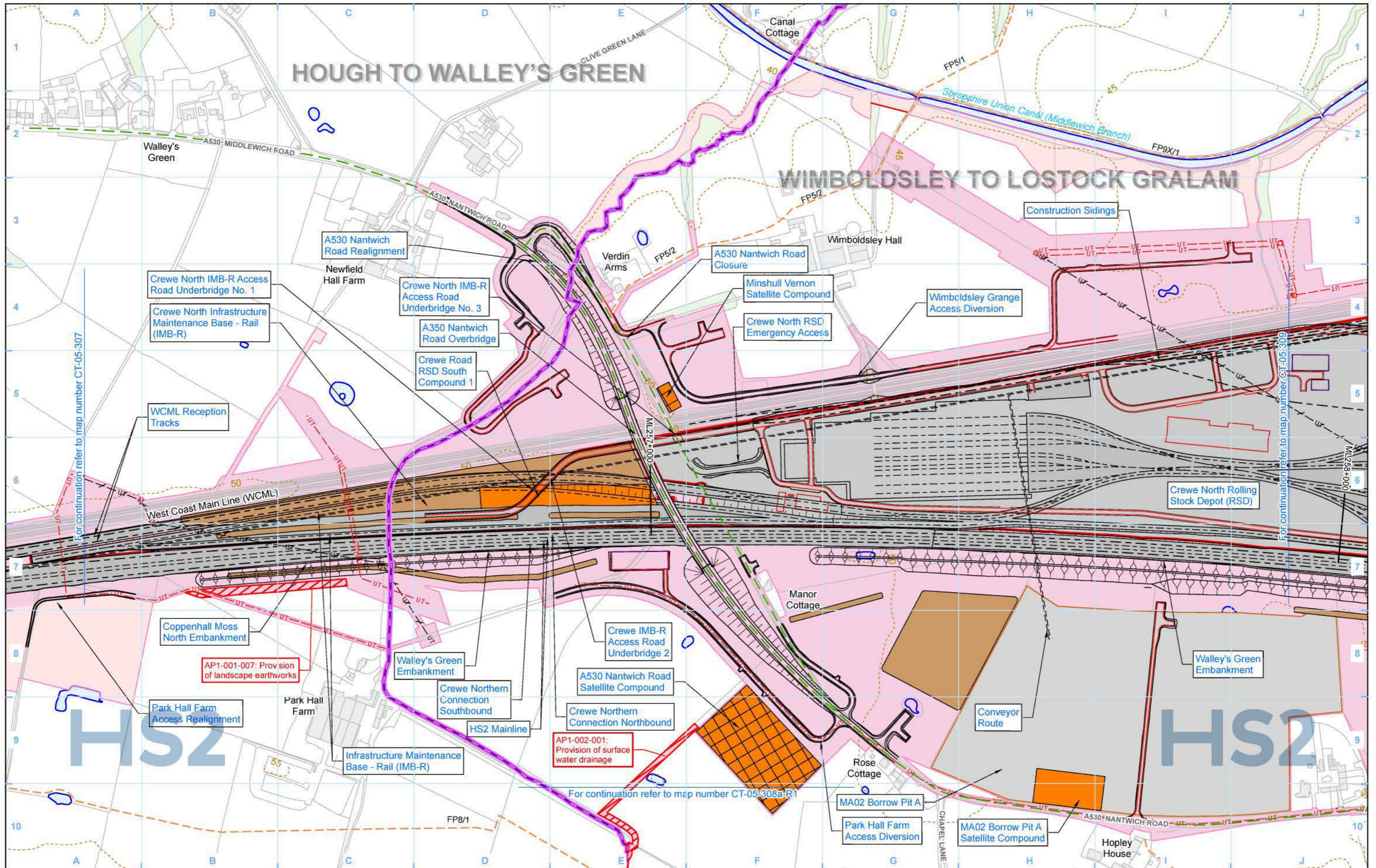
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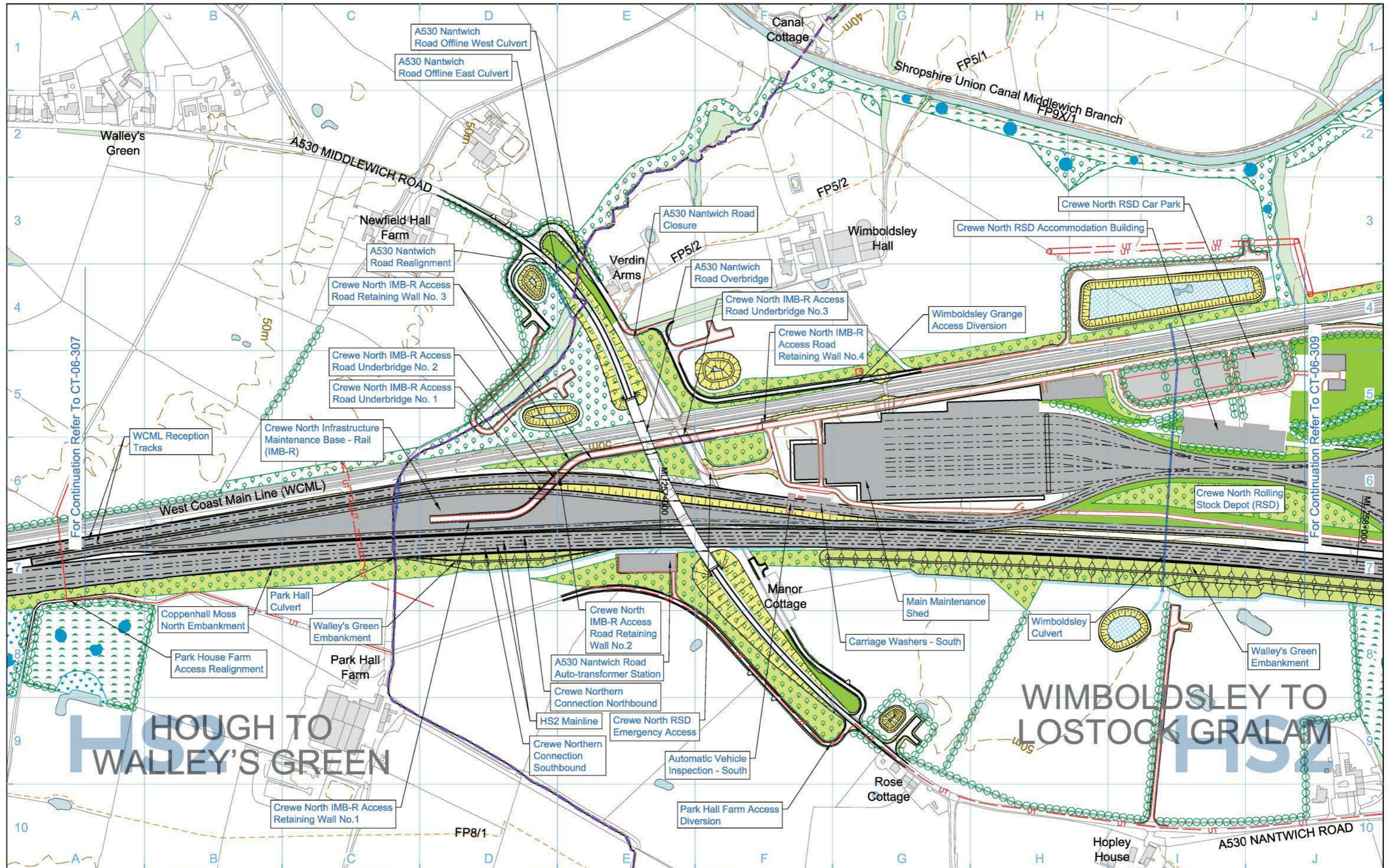
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HOUGH TO WALLEY'S GREEN

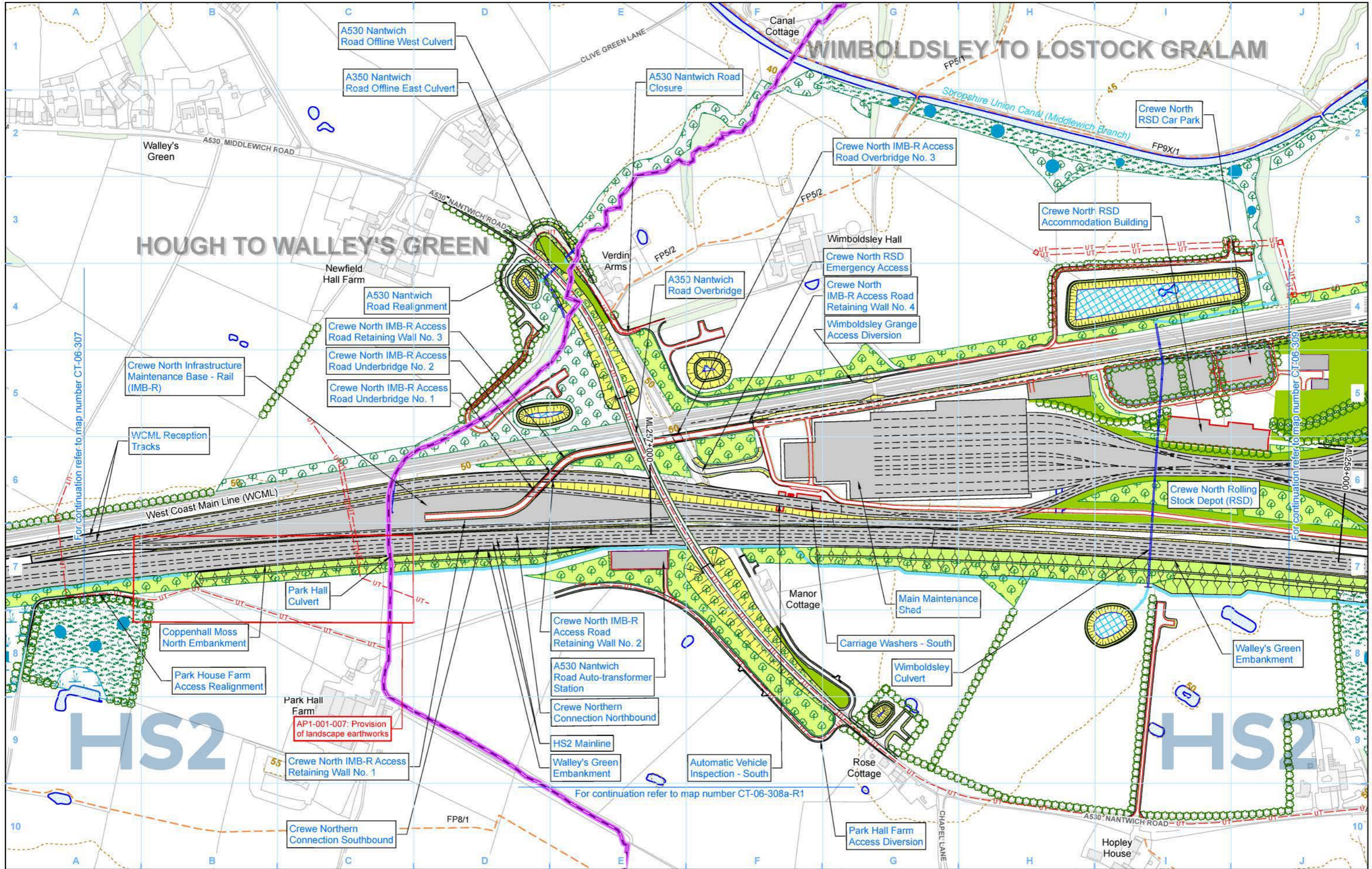
WIMBOLDSLEY TO LOSTOCK GRALAM



Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Main construction compound Satellite construction compound Railway systems compounds System railheads Temporary material stockpile Borrow pit Railway systems site Storage / prefabrication / laydown areas Land potentially required during construction Land potentially required for mitigation planting Temporary replacement community facility Rail alignment formation Temporary workers accommodation Community area boundary Construction traffic route Existing public right of way Public right of way closure Temporary public right of way closure Temporary public right of way diversion / realignment New, diverted or realigned public right of way Landscape earthworks Engineering earthworks Major utility works Major utility works - Removed County boundary Borough / District boundary Tunnels external extent Existing buildings Existing woodland Existing inland water Existing watercourse HS2 access Rail alignment Additional land required for current AP Land no longer required at current AP/SES 		Map Number CT-05-308a Map Name Construction Phase SES1 and AP1 ES Community Area MA01: Hough to Walley's Green	<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England: Registration number 06791686. Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2021 OS 100049190</p> <p>Doc Number: 2PT24-MWJ-EV-DPL-M002-510308-P03</p> <p>Scale at A3: 1:5,000</p> <p>Date: 19/05/22</p>
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										Map Name Proposed Scheme	
										Community Area MA01 Hough to Walley's Green	



Legend

	Depot, station, headhouse or portal building		Replacement floodplain storage area		Grassed areas
	Tunnel portal		Pumping station		Public realm
	Railway Systems Site		Grassland habitat creation		Replacement community facility
	Ecological mitigation pond (indicative only)		Wetland habitat creation		Returned to suitable development use
	Balancing pond		Woodland habitat creation		Local placement
			Landscape mitigation planting (scrub / woodland)		Hedgerow

	County boundary		Landscape earthworks		Public right of way closure
	Borough / District boundary		Rail alignment formation		Existing woodland
	Community area boundary		Tunnels external extent		Existing inland water
	New ditches		Major utility works		HS2 access
	Existing watercourse		Existing public right of way		Noise fence barrier
	Watercourse diversion		New, diverted or realigned public right of way		Rail alignment
	Engineering earthworks				

Map Number: CT-06-308a

Map Name: Proposed Scheme SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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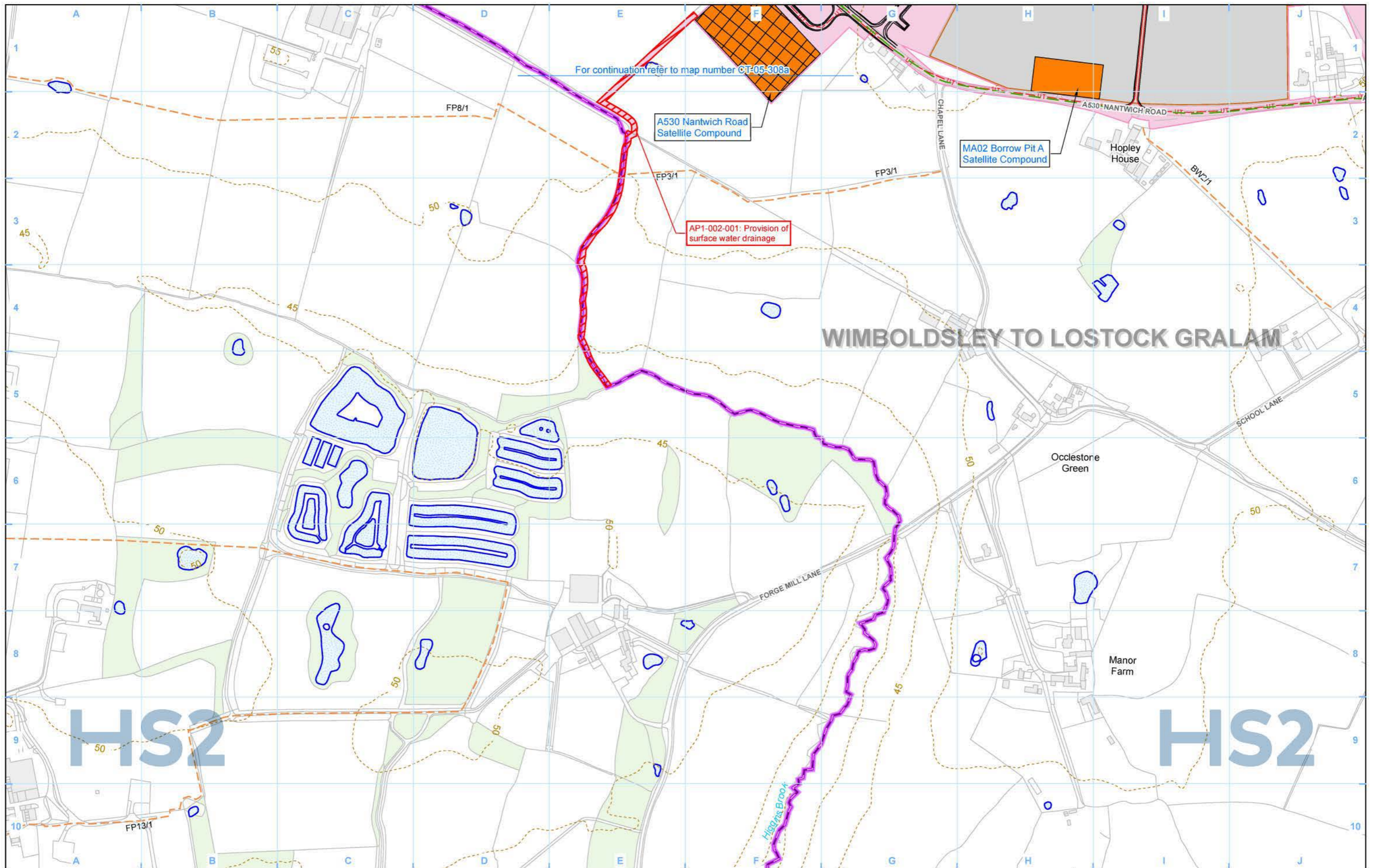
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Date: 19/05/22

Scale at A3: 1:5,000

Metres

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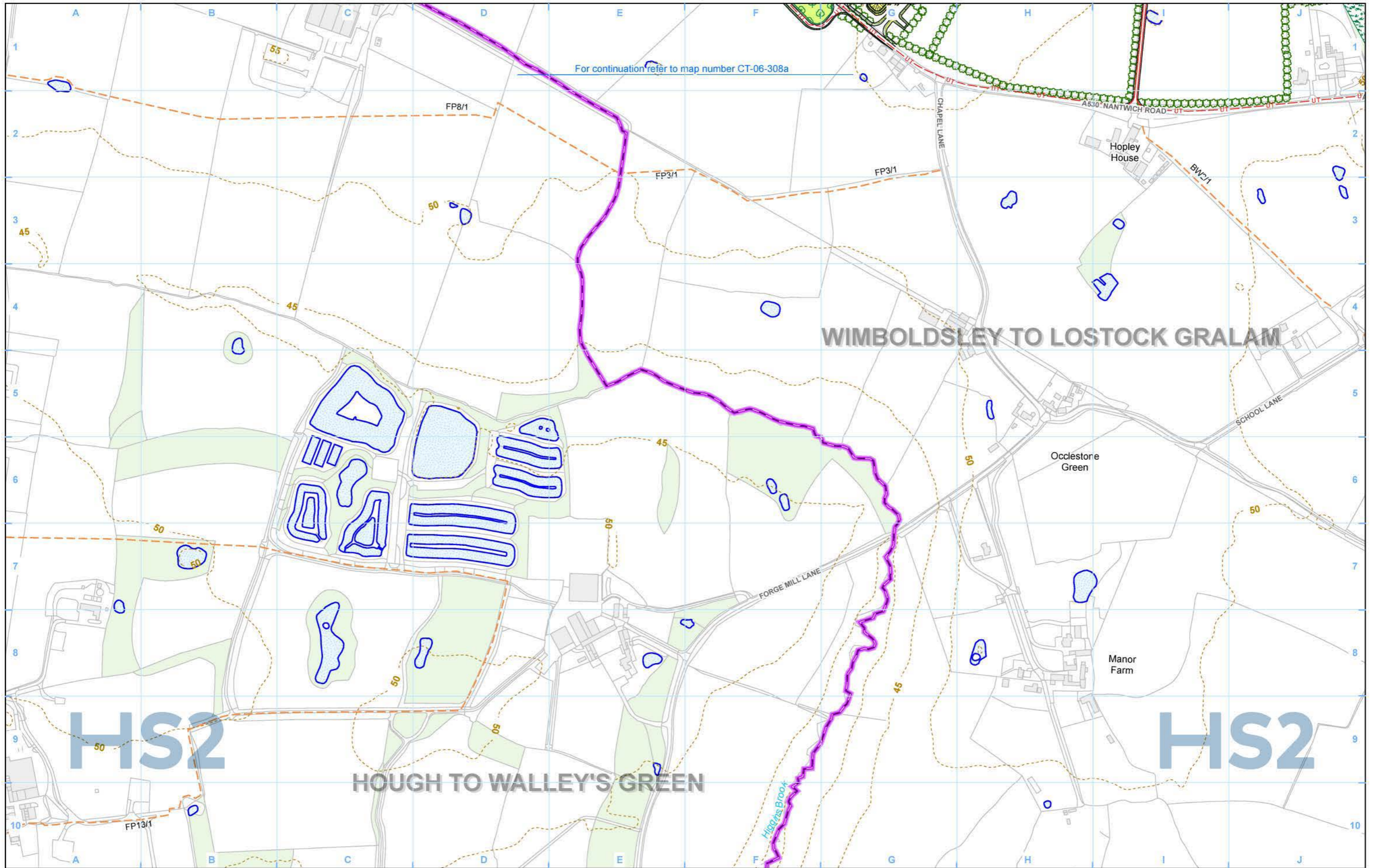


For continuation refer to map number CT-05-308a

WIMBOLDSLEY TO LOSTOCK GRALAM

Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Main construction compound Satellite construction compound Railway systems compounds System railheads Temporary material stockpile Borrow pit Railway systems site Storage / prefabrication / laydown areas Land potentially required during construction Land potentially required for mitigation planting Temporary replacement community facility Rail alignment formation Temporary workers accommodation Community area boundary Construction traffic route Existing public right of way Public right of way closure Temporary public right of way closure Temporary public right of way diversion / realignment New, diverted or realigned public right of way Landscape earthworks Engineering earthworks Major utility works Major utility works - Removed County boundary Borough / District boundary Tunnels external extent Existing buildings Existing woodland Existing inland water Existing watercourse HS2 access Rail alignment Additional land required for current AP Land no longer required at current AP/SES 		<p>Map Number: CT-05-308a-R1</p> <p>Map Name: Construction Phase SES1 and AP1 ES</p> <p>Community Area MA01: Hough to Walley's Green</p>	<p>HS2</p> <p>Registered in England: Registration number 06791686. Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2021 OS 100049190</p> <p>Doc Number: 2PT24-MVJ-EV-DPL-M002-515308-P03</p> <p>Scale at A3: 1:5,000</p> <p>Date: 19/05/22</p>
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For continuation refer to map number CT-06-308a

WIMBOLDSLEY TO LOSTOCK GRALAM

HOUGH TO WALLEY'S GREEN

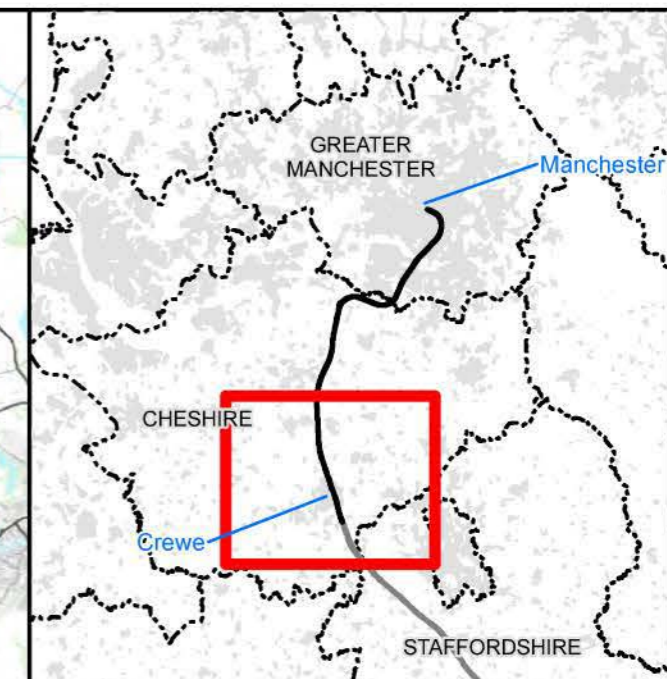
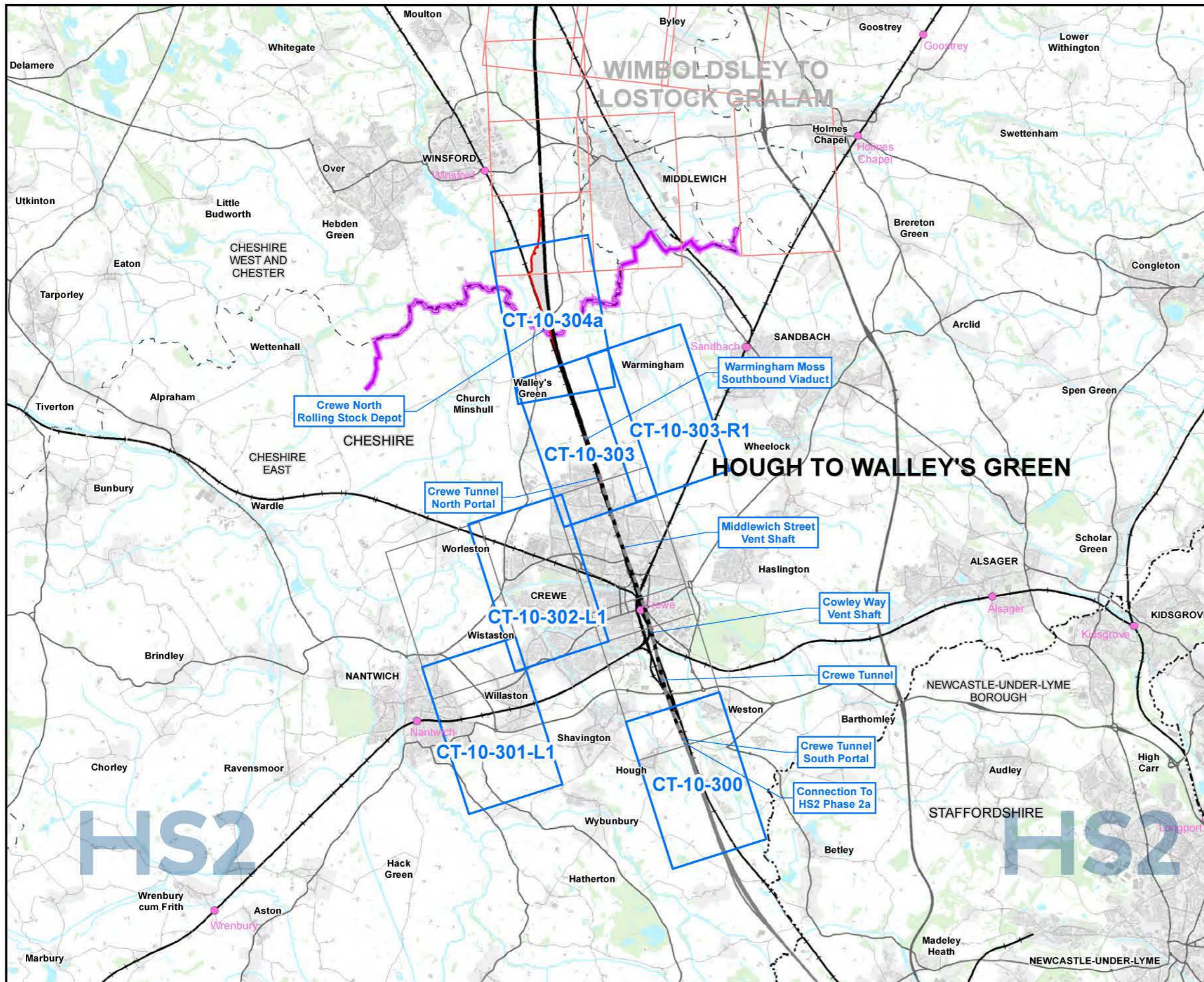
Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Railway Systems Site Ecological mitigation pond (indicative only) Balancing pond Replacement floodplain storage area Pumping station Grassland habitat creation Wetland habitat creation Woodland habitat creation Landscape mitigation planting (scrub / woodland) Hedgerow Grassed areas Public realm Replacement community facility Returned to suitable development use Local placement 		<ul style="list-style-type: none"> County boundary Borough / District boundary Community area boundary New ditches Existing watercourse Watercourse diversion Engineering earthworks Landscape earthworks Rail alignment formation Tunnels external extent Major utility works Existing public right of way New, diverted or realigned public right of way Public right of way closure Existing woodland Existing buildings Existing inland water HS2 access Noise fence barrier Rail alignment 		<p>Map Number: CT-06-308a-R1</p> <p>Map Name: Proposed Scheme SES1 and AP1 ES</p> <p>Community Area MA01: Hough to Walley's Green</p>		<p>HS2</p> <p>Registered in England. Registration number 06791686. Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2021 OS 100049190</p> <p>Doc Number: 2PT24-MWJ-EV-DPL-M002-615308-P02</p> <p>Date: 19/05/22</p> <p>Scale at A3: 1:5,000</p>	
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**High Speed Rail
(Crewe – Manchester)**

**Supplementary Environmental Statement 1 and
Additional Provision 1 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 area boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community area
 - Map sheets included in this community area with no amendment
 - Map sheets not included in this community area

Map Number: CT-10-INDEX-MA01
 Map Name: Index Map of: Environmental Baseline SES1 and AP1 ES
 Community Area MA01: Hough to Walley's Green

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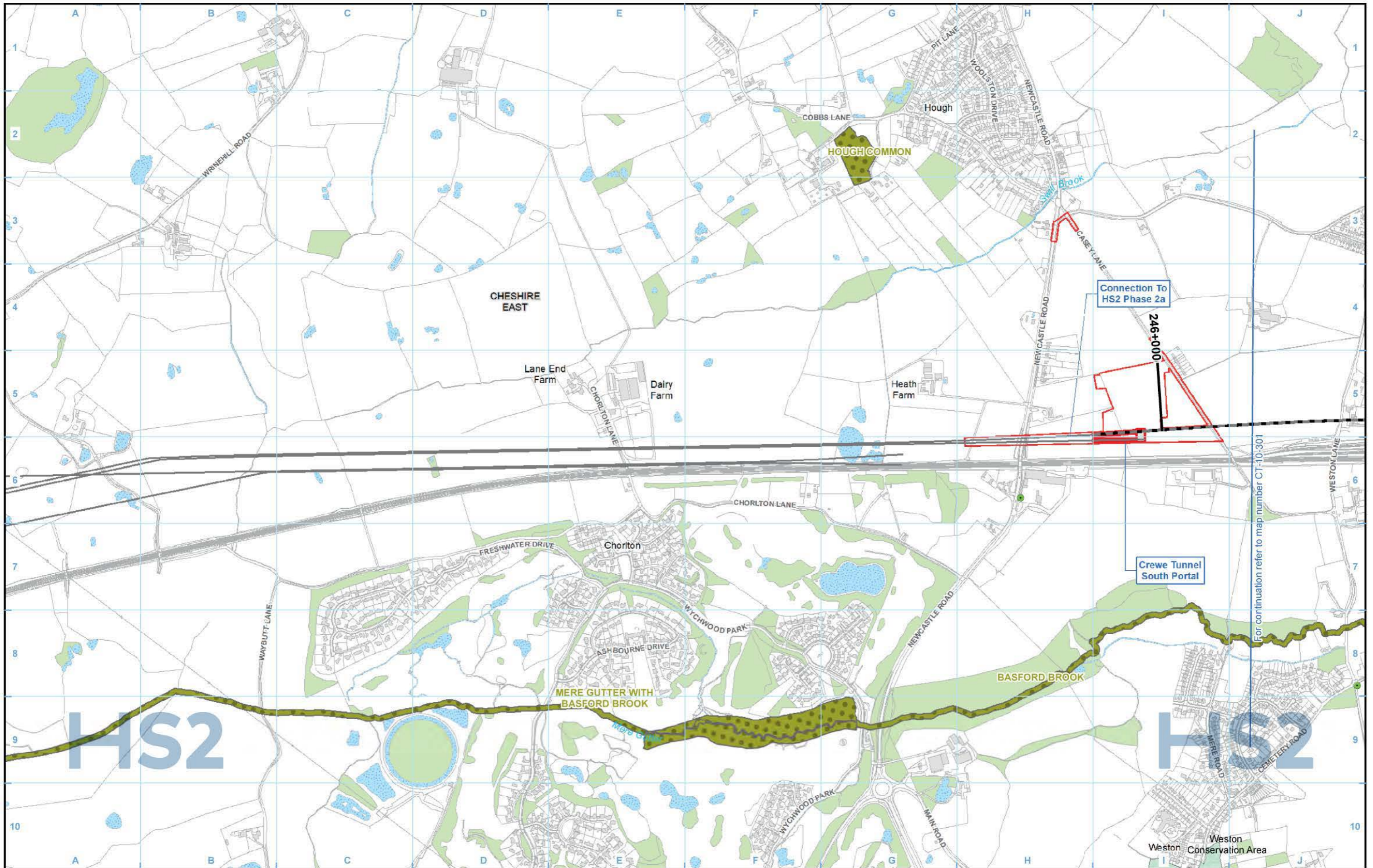
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland
- Conservation Area
- Scheduled monument
- Listed building grade I
- Listed building grade II*
- Listed building grade II
- Registered park/garden

- Special Protection Area (SPA)
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)
- National Nature Reserve (NNR)
- Local Nature Reserve (LNR)
- Local Wildlife Sites (LWS)
- Ancient Woodland Inventory Sites (AWIS)

- Ramsar Site

Map Number: CT-10-300

Map Name: Environmental Baseline

Community Area MA01: Hough to Walley's Green

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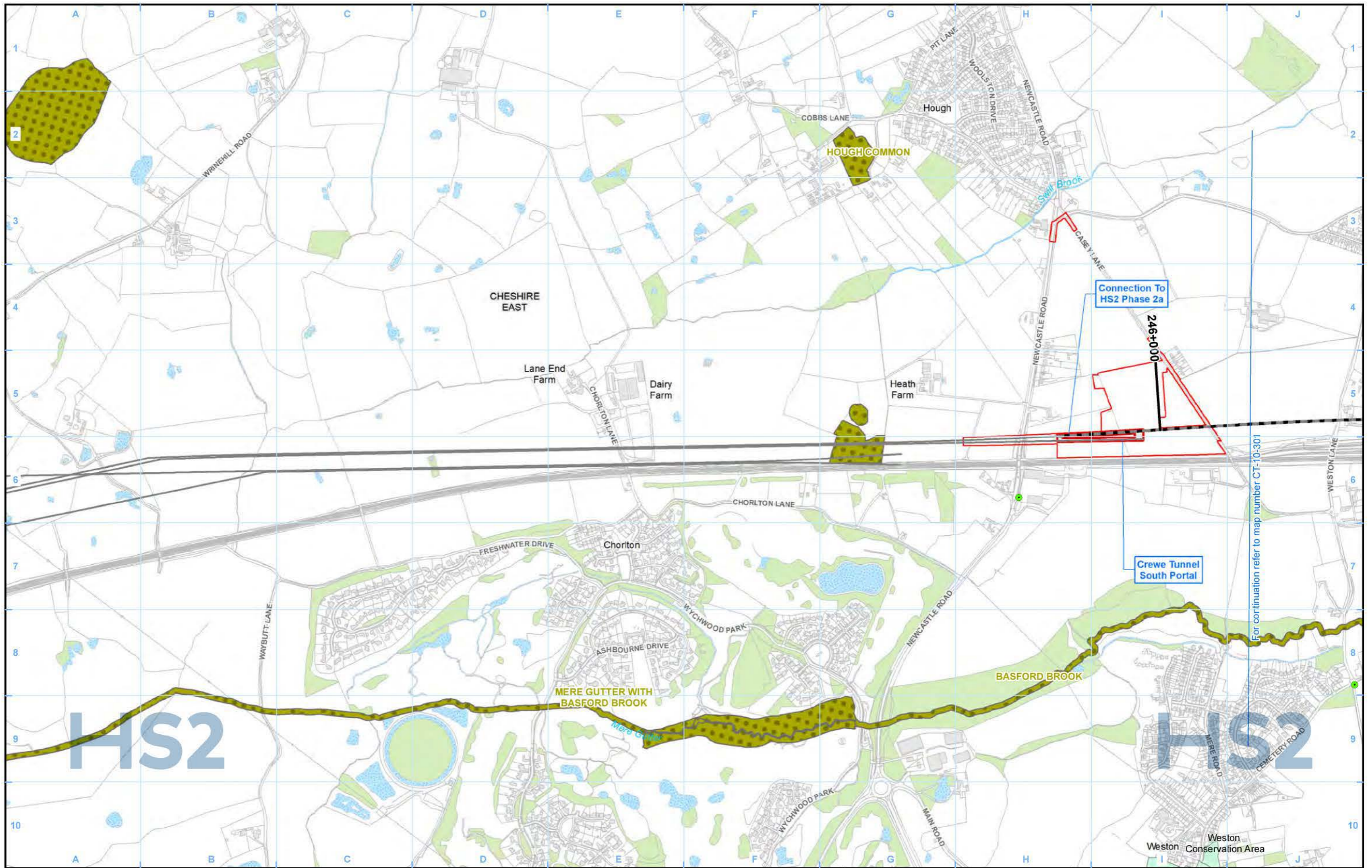
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003576-P07

Scale at A3: 1:10,000

Date: 12/08/21

For continuation refer to map number CT-10-301



Legend				

Map Number	CT-10-300
Map Name	Environmental Baseline SES1 and AP1 ES
	Community Area MA01: Hough to Walley's Green

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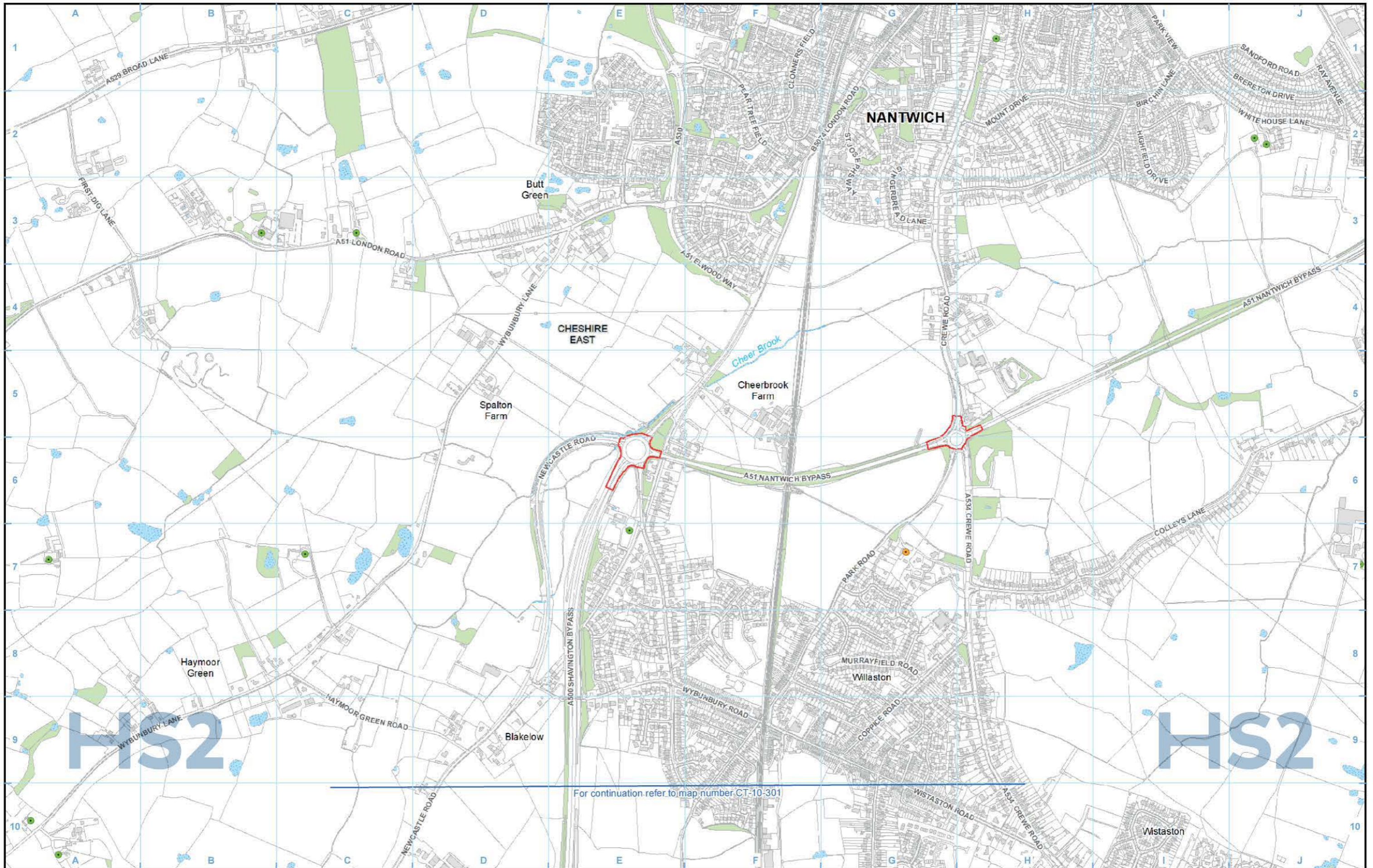
Scale at A3: 1:10,000

Metres

Date: 20/04/22

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For continuation refer to map number CT-10-301



For continuation refer to map number CT-10-301

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Conservation Area
	Scheduled monument
	Listed building grade I
	Listed building grade II*
	Listed building grade II
	Registered park/garden
	Special Protection Area (SPA)
	Special Area of Conservation (SAC)
	Site of Special Scientific Interest (SSSI)
	National Nature Reserve (NNR)
	Local Nature Reserve (LNR)
	Local Wildlife Sites (LWS)
	Ancient Woodland Inventory Sites (AWIS)
	Ramsar Site

Map Number	CT-10-301-L1
Map Name	Environmental Baseline
Community Area	Community Area MA01: Hough to Walley's Green

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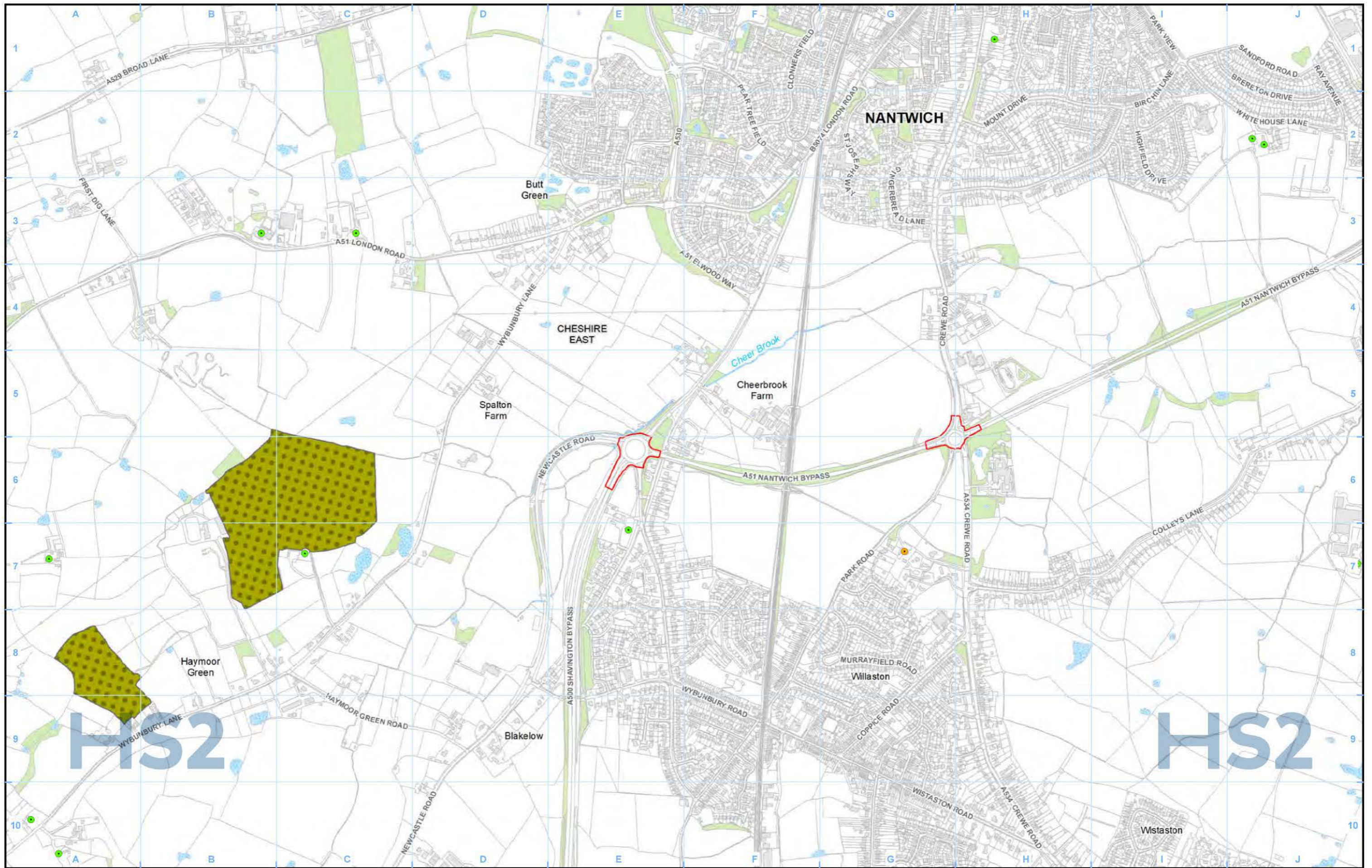
Doc Number: 2DE01-MWJ-EV-MAP-M000-003577-P07

Scale at A3: 1:10,000

Metres

Date: 12/08/21

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Legend				

Map Number: CT-10-301-L1

Map Name: Environmental Baseline SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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Doc Number: 2PT24-MWJ-EV-MAP-M000-003577-P01

Scale at A3: 1:10,000

Date: 20/04/22

For continuation refer to map number CT-10-302-L2

For continuation refer to map number CT-10-302



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 area boundary	Scheduled monument
County boundary	Listed building grade I
District/Borough boundary	Listed building grade II*
	Listed building grade II
	Registered park/garden
	Special Protection Area (SPA)
	Special Area of Conservation (SAC)
	Site of Special Scientific Interest (SSSI)
	National Nature Reserve (NNR)
	Local Nature Reserve (LNR)
	Local Wildlife Sites (LWS)
	Ancient Woodland Inventory Sites (AWIS)
	Ramsar Site

Map Number	CT-10-302-L1
Map Name	Environmental Baseline
Community Area	MA01: Hough to Walley's Green

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For continuation refer to map number CT-10-302-L2



For continuation refer to map number CT-10-302

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Conservation Area
	Scheduled monument
	Listed building grade I
	Listed building grade II*
	Listed building grade II
	Registered park/garden
	Special Protection Area (SPA)
	Special Area of Conservation (SAC)
	Site of Special Scientific Interest (SSSI)
	National Nature Reserve (NNR)
	Local Nature Reserve (LNR)
	Ancient Woodland
	Local Wildlife Sites (LWS)
	Ramsar Site

Map Number	CT-10-302-L1
Map Name	Environmental Baseline SES1 and AP1 ES
	Community Area MA01: Hough to Walley's Green

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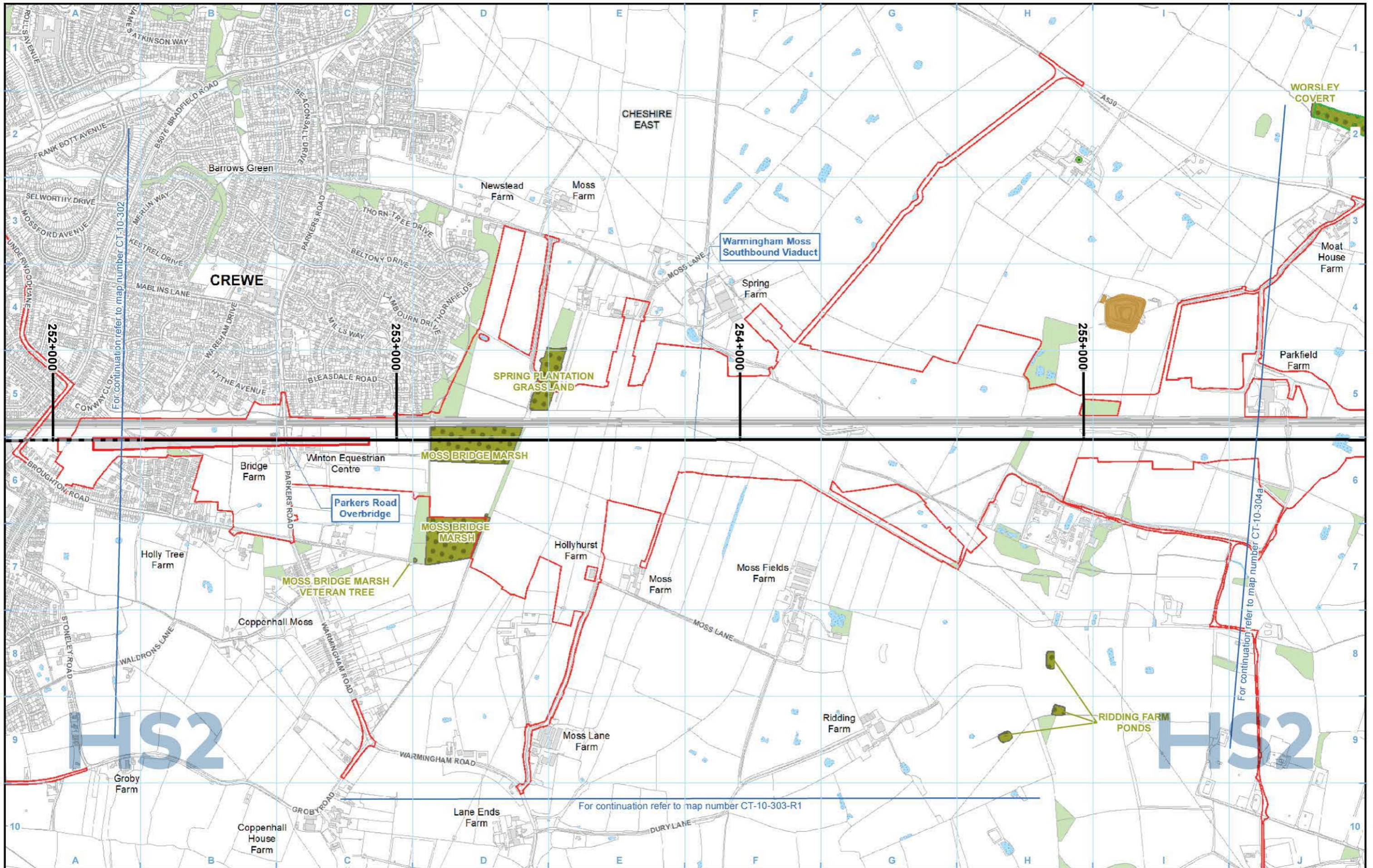
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Date: 20/04/22



Legend				

Map Number	CT-10-303
Map Name	Environmental Baseline
Community Area MA01: Hough to Walley's Green	

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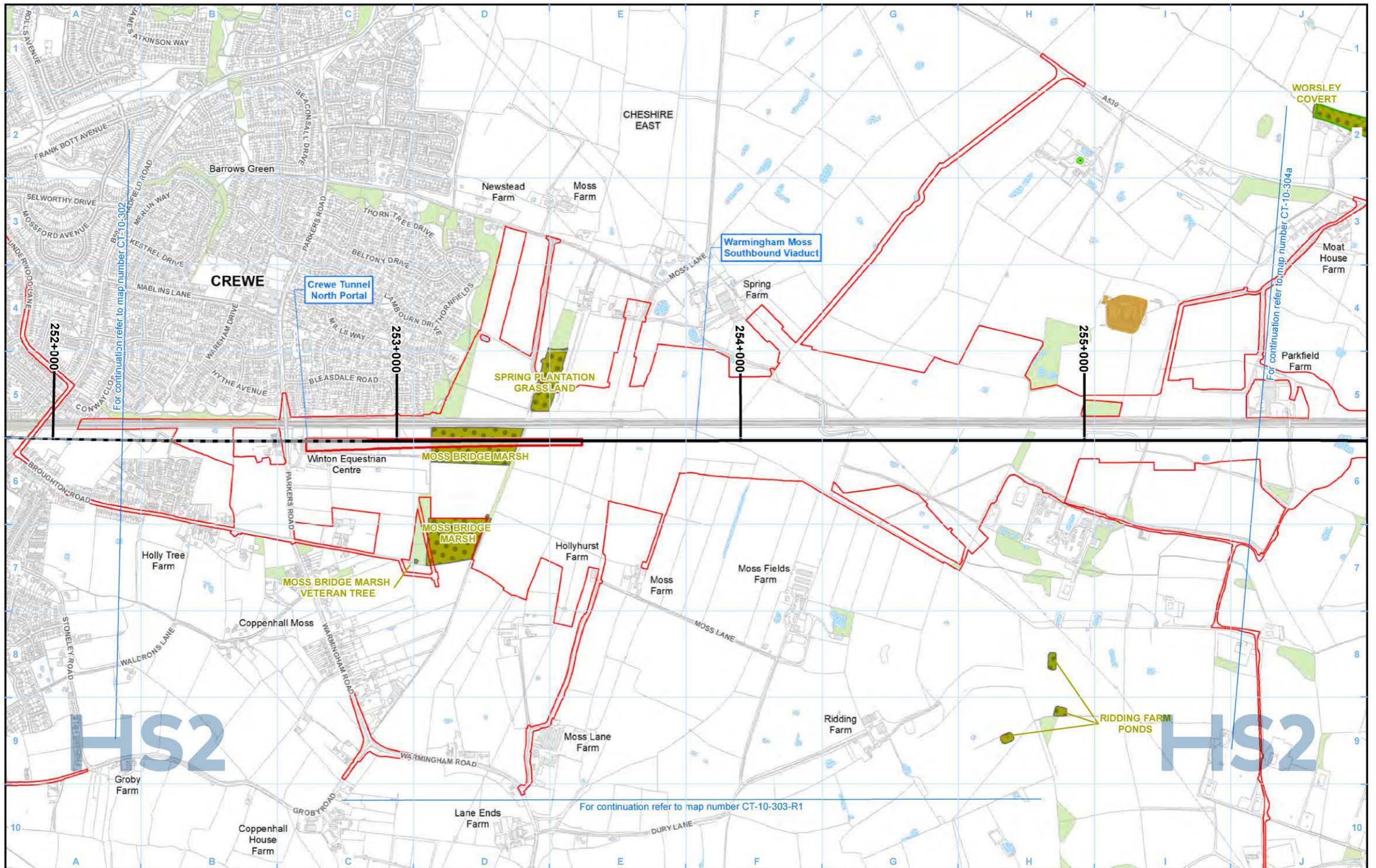
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Date: 12/08/21



Legend					

Map Number	CT-10-303
Map Name	Environmental Baseline SES1 and AP1 ES
	Community Area MA01: Hough to Walley's Green

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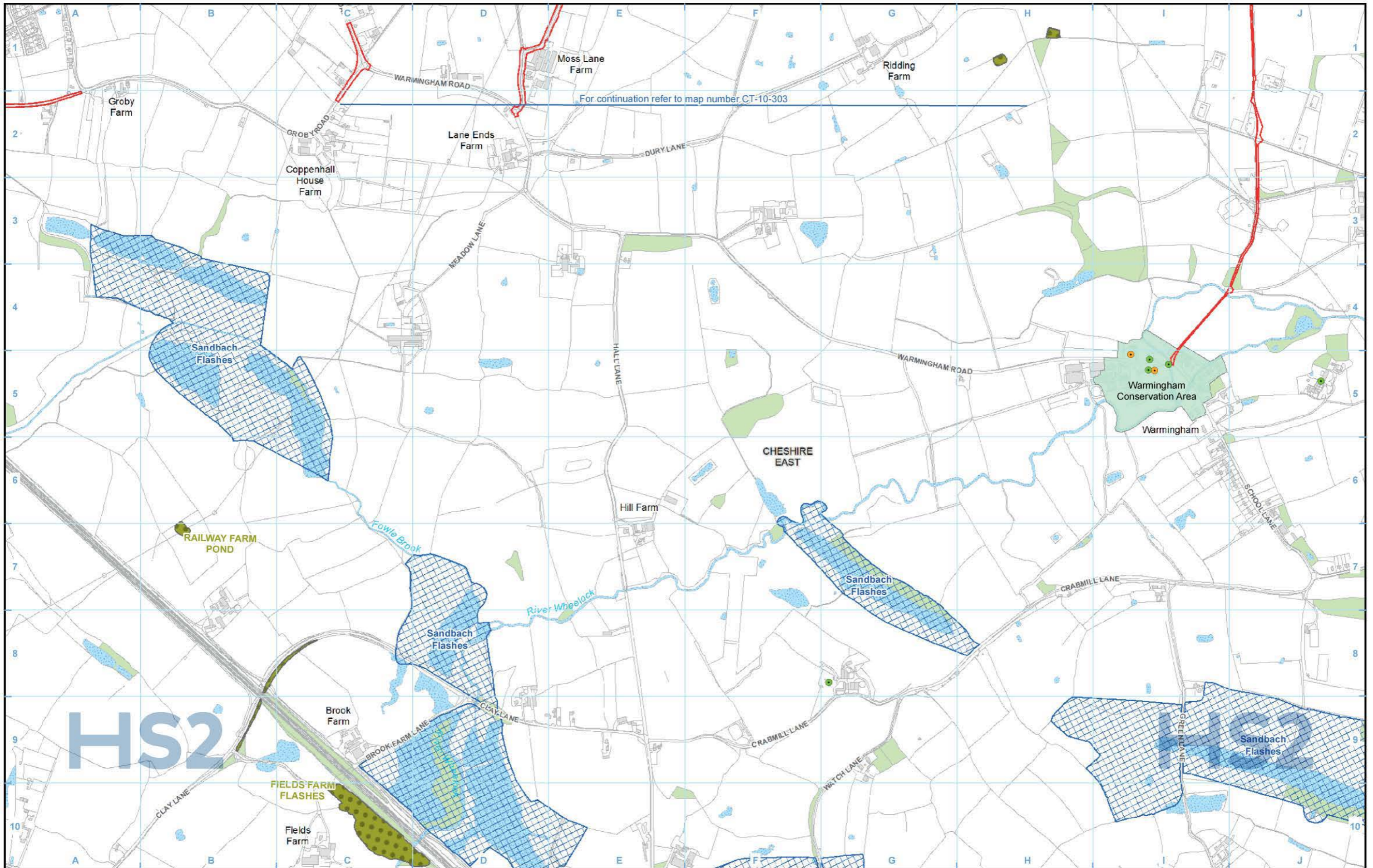
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Date: 20/04/22



For continuation refer to map number CT-10-303

Hs2

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Conservation Area
	Scheduled monument
	Listed building grade I
	Listed building grade II*
	Listed building grade II
	Registered park/garden
	Special Protection Area (SPA)
	Special Area of Conservation (SAC)
	Site of Special Scientific Interest (SSSI)
	National Nature Reserve (NNR)
	Local Nature Reserve (LNR)
	Local Wildlife Sites (LWS)
	Ancient Woodland Inventory Sites (AWIS)
	Ramsar Site

Map Number	CT-10-303-R1
Map Name	Environmental Baseline
Community Area MA01: Hough to Walley's Green	

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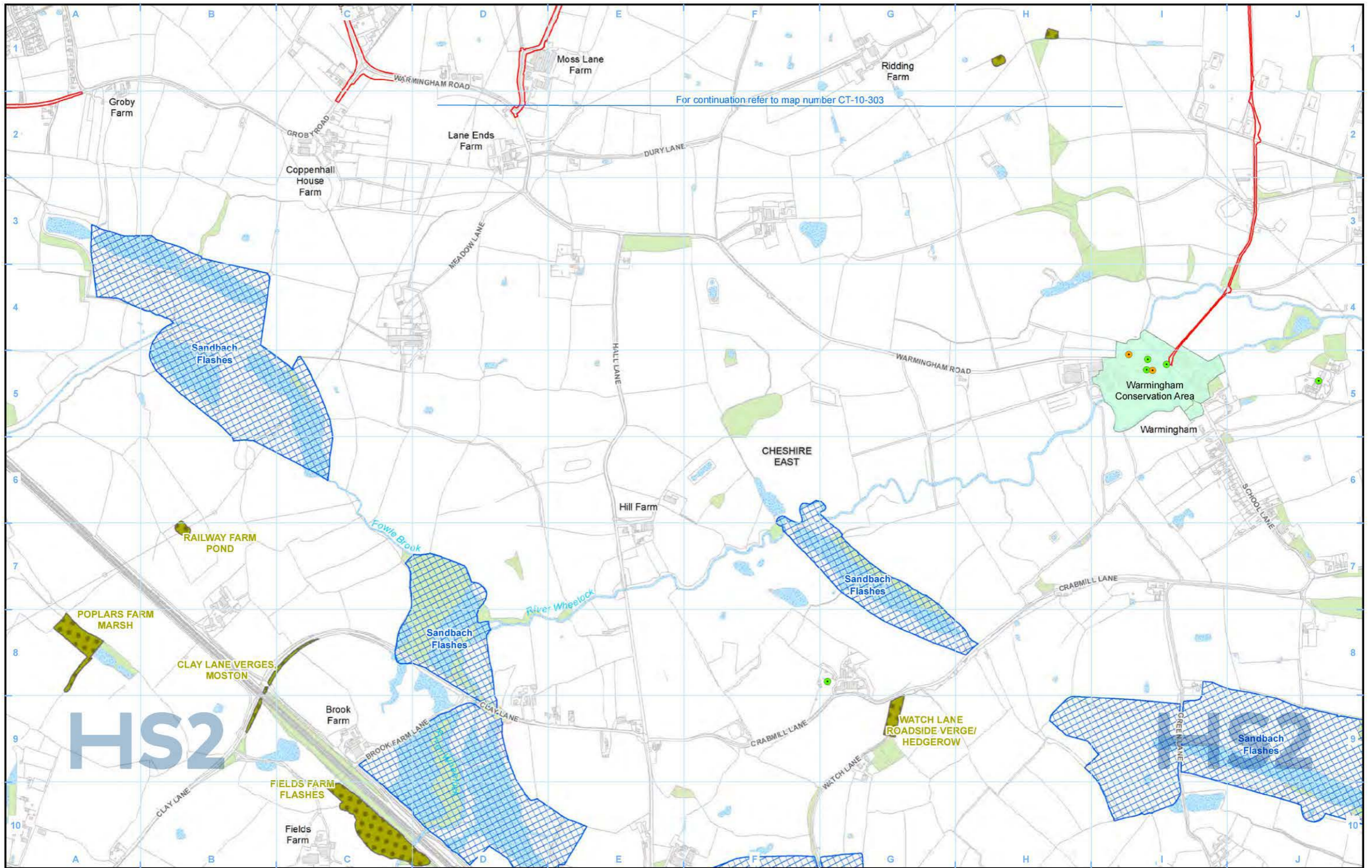
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Date: 12/08/21



For continuation refer to map number CT-10-303

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Conservation Area
	Scheduled monument
	Listed building grade I
	Listed building grade II*
	Listed building grade II
	Registered park/garden
	Special Protection Area (SPA)
	Special Area of Conservation (SAC)
	Site of Special Scientific Interest (SSSI)
	National Nature Reserve (NNR)
	Local Nature Reserve (LNR)
	Ancient Woodland
	Local Wildlife Sites (LWS)
	Ramsar Site

Map Number	CT-10-303-R1
Map Name	Environmental Baseline SES1 and AP1 ES
Community Area MA01: Hough to Walley's Green	

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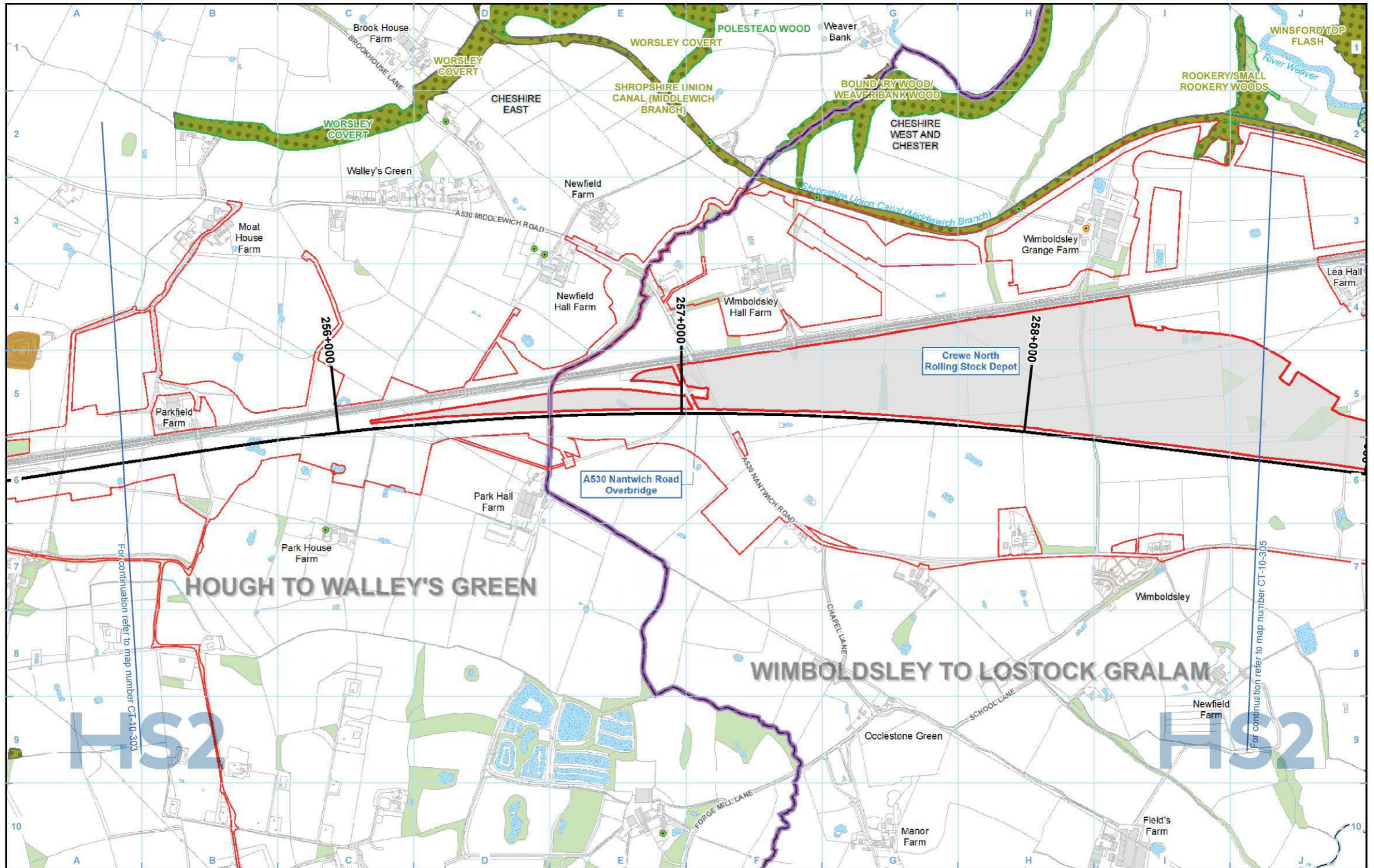
Doc Number: 2PT24-MWJ-EV-MAP-M000-002835-P01

Scale at A3: 1:10,000

Metres

Date: 20/04/22

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Legend					
	Route in tunnel		Watercourse		Conservation Area
	Route on surface		Water body		Scheduled monument
	Depot, station, headhouse or portal building		Woodland		Listed building grade I
	Land potentially required during construction				Listed building grade II*
	Community area boundary				Listed building grade II
	County boundary				Registered park/garden
	District/Borough boundary				Ancient Woodland Inventory Sites (AWIS)
	Ramsar Site		Special Protection Area (SPA)		Special Area of Conservation (SAC)
	Site of Special Scientific Interest (SSSI)		National Nature Reserve (NNR)		Local Nature Reserve (LNR)
	Local Wildlife Sites (LWS)		Local Wildlife Sites (LWS)		Local Wildlife Sites (LWS)

Map Number	CT-10-304a
Map Name	Environmental Baseline
Community Area MA01: Hough to Walley's Green	

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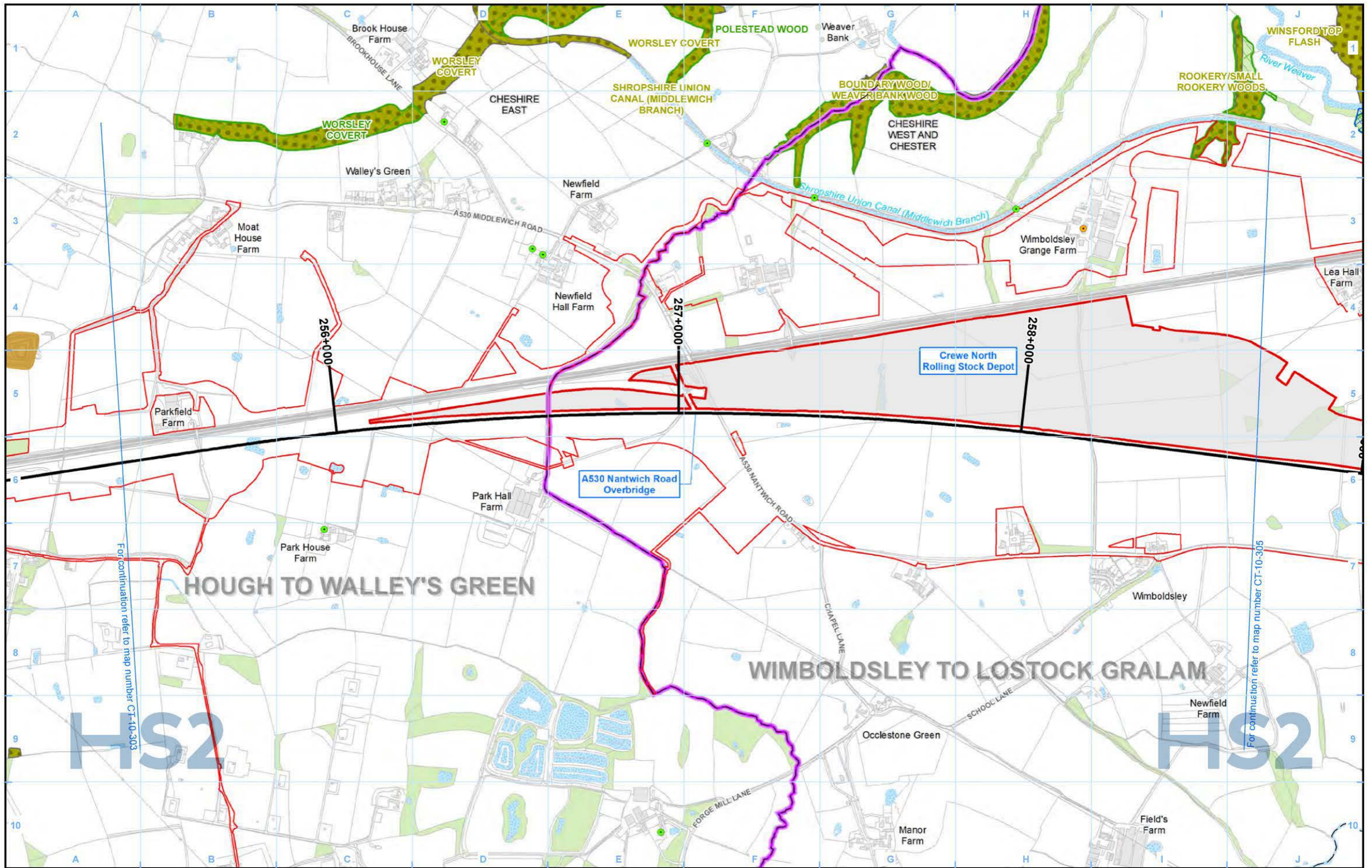
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Scale at A3: 1:10,000

Date: 12/08/21



Legend

<ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland Conservation Area Scheduled monument Listed building grade I Listed building grade II* Listed building grade II Registered park/garden 	<ul style="list-style-type: none"> Special Protection Area (SPA) Special Area of Conservation (SAC) Site of Special Scientific Interest (SSSI) National Nature Reserve (NNR) Local Nature Reserve (LNR) Ancient Woodland 	<ul style="list-style-type: none"> Local Wildlife Sites (LWS) Ramsar Site
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Map Number: CT-10-304a

Map Name: Environmental Baseline SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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Date: 20/04/22

For continuation refer to map number CT-10-303

For continuation refer to map number CT-10-305

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

**Supplementary Environmental Statement 1 and
Additional Provision 1 Environmental Statement**

LV-01 – Photomontages

Viewpoint 303-02-003: view south-east from public open space bordering the B5076 Middlewich Street

This viewpoint is representative of views experienced by residents of the B5076 Middlewich Street and Bentley Manor Care home, and users of public footpaths and of the public open space, and by rail users.

Current baseline - winter view

Date taken: 26/03/2018. Time taken: 14.01



Winter verifiable photomontage - operation year 1

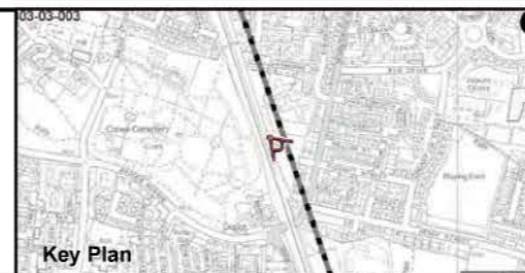


The viewpoint has been taken approximately 29.9m away from the Proposed Scheme. Viewpoint location shown on Map LV-01-703. For full details of the visual assessment at viewpoint 303-02-003 refer to Volume 5: Appendix LV-07-MA01, Part 3.

This verifiable photomontage (Type 4 as described in Visual Representation of Development Proposals LI TGN 06/19) provides an illustration of how the Proposed Scheme may look in 2035 (opening year) to help inform the visual impact assessment. The design of the Proposed Scheme may be subject to design development in response to consultation. Development of detail design after hybrid Bill submission will not result in any significant adverse change in the environmental effects reported in the assessment. 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.

Each individual image represents a 39.6° horizontal field of view with planar projection. At this scale the images do not lend themselves to direct comparison out in the field. Therefore, for viewing in the field, it is recommended that each image from the panoramic photomontage is printed individually, onto an A3 landscape sheet (image size 390mm x 260mm) to be viewed at a comfortable arms length. For further details on the selection of photomontage locations, verifiable methodology and presentation refer to the Landscape and visual assessment Technical Note - Approach to verifiable photomontages (SMR Volume 5: Appendix CT-001-00001).

Camera:	Sony a7RII, FFS, Zeiss Loxia 50mm f/2.0 lens		
Approximate GPS co-ordinates ref.:	370571.543, 356433.011	Direction of View:	86.8°
Elevation:	52.243m AOD	Height of Camera:	1.7m



Map Number	LV-01-703
Map Name	Verifiable Photomontage Operation Year 1 (2035) - Winter Viewpoint 303-02-003
Community area :	MA01

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Date: May 2021

Viewpoint 303-02-003: view south-east from public open space bordering the B5076 Middlewich Street

This viewpoint is representative of views experienced by residents of the B5076 Middlewich Street and Bentley Manor Care home, and users of public footpaths and of the public open space, and by rail users.

Current baseline - winter view

Date taken: 26/03/2018 Time taken: 14:01



Winter verifiable photomontage - operation year 1



The viewpoint has been taken approximately 29.9m away from the AP1 revised scheme. Viewpoint location shown on Map LV-08-303. For full details of the visual assessment at viewpoint 303-02-003 refer to Volume 5: Appendix LV-001-0MA01, Part 4.

This verifiable photomontage (Type 4 as described in Visual Representation of Development Proposals LI TGN 06/19) provides an illustration of how the AP1 revised scheme may look in 2038 (opening year) to help inform the visual impact assessment. The design of the AP1 revised scheme may be subject to design development in response to consultation. Development of detail design after AP1 submission will not result in any significant adverse change in the environmental effects reported in the assessment. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the AP1 revised scheme into the landscape.

Each individual image represents a 39.6° horizontal field of view with planar projection. At this scale the images do not lend themselves to direct comparison out in the field. Therefore, for viewing in the field, it is recommended that each image from the panoramic photomontage is printed individually, onto an A3 landscape sheet (image size 390mm x 260mm) to be viewed at a comfortable arms length. For further details on the selection of photomontage locations, verifiable methodology and presentation refer to the Landscape and visual assessment Technical Note - Approach to verifiable photomontages (SMR Volume 5, Appendix: CT-001-00001) of the main ES.

Camera:	Sony a7RII, FFS, Zeiss Loxia 50mm f/2.0 lens		
Approximate GPS co-ordinates ref.	370571.543, 356433.011	Direction of View:	86.8°
Elevation:	52.243m AOD	Height of Camera:	1.7m

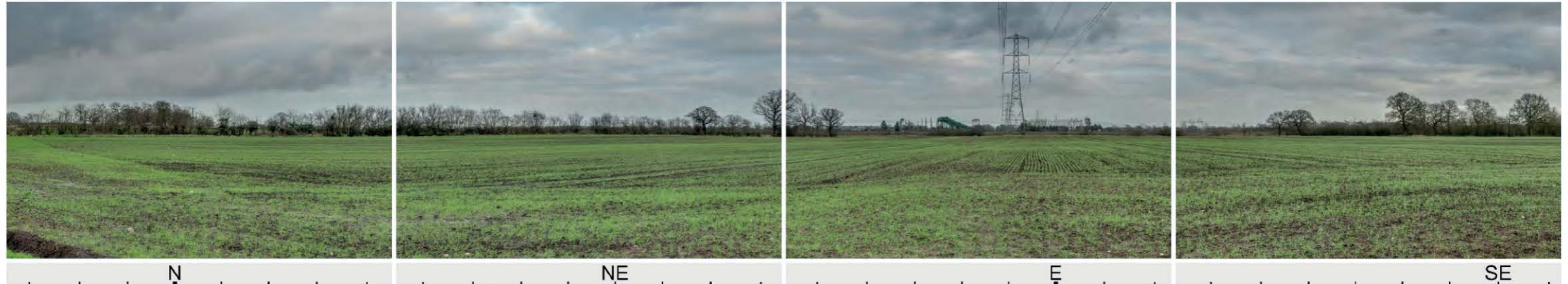
	Map Number LV-01-703	<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: Two Snowhill, Snow Hill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2022. Ordnance Survey Licence Number 100049190.</p>
	Map Name Verifiable Photomontage Operation Year 1 - Winter Viewpoint 303-02-003	
	Community area MA01: Hough to Walley's Green	
Doc Number: 2PT24-MWJ-EV-MAP-M000-004142-P01		Date: Jan 2022

Viewpoint 304-02-009: view east from Footpath Minshull Vernon 2/1, east of Moss Lane

This viewpoint is representative of views experienced by residents of Spring Farm, properties east of Moss Lane and by users of Minshull Vernon Footpath 2/1

Current baseline - winter view

Date taken: 13/01/2019. Time taken: 15:32



Winter verifiable photomontage - operation year 1



The viewpoint has been taken approximately 338.5m away from the Proposed Scheme. Viewpoint location shown on Map LV-01-707. For full details of the visual assessment at viewpoint 304-02-009 refer to Volume 5: Appendix LV-08-MA01, Part 3.

This verifiable photomontage (Type 4 as described in Visual Representation of Development Proposals LI TGN 06/19) provides an illustration of how the Proposed Scheme may look in 2038 (opening year) to help inform the visual impact assessment. The design of the Proposed Scheme may be subject to design development in response to consultation. Development of detail design after hybrid Bill submission will not result in any significant adverse change in the environmental effects reported in the assessment. 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.

Each individual image represents a 39.6° horizontal field of view with planar projection. At this scale the images do not lend themselves to direct comparison out in the field. Therefore, for viewing in the field, it is recommended that each image from the panoramic photomontage is printed individually, onto an A3 landscape sheet (image size 390mm x 260mm) to be viewed at a comfortable arms length. For further details on the selection of photomontage locations, verifiable methodology and presentation refer to the Landscape and visual assessment Technical Note - Approach to verifiable photomontages (SMR Volume 5: Appendix CT-001-00001).

Camera:	Sony a7RII, FFS, Zeiss Loxia 50mm f/2.0 lens		
Approximate GPS co-ordinates ref.:	369395, 358948	Direction of View:	62°
Elevation:	50.636 metres AOD	Height of Camera:	1.65m

<p>Key Plan</p>	Map Number LV-01-707	<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England: Registration number 06791686. Registered office: One Canada Square, London, E14 5AB.</p> <p>© Crown copyright and database rights 2020. Ordnance Survey Licence Number 100049190.</p>	
	Map Name Verifiable Photomontage Operation Year 1 (2038) - Winter Viewpoint 304-02-009		
	Community Area : MA01		

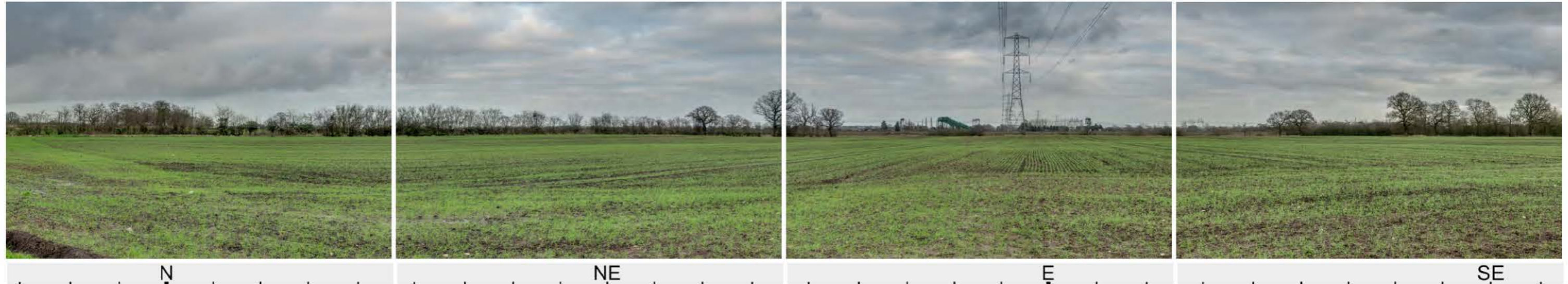
Date: May 2021

Viewpoint 304-02-009: view east from Footpath Minshull Vernon 2/1, east of Moss Lane

This viewpoint is representative of views experienced by residents of Spring Farm, properties east of Moss Lane and by users of Minshull Vernon Footpath 2/1.

Current baseline - winter view

Date taken: 13/01/2019 Time taken: 15:32



Winter verifiable photomontage - operation year 1



The viewpoint has been taken approximately 338.5m away from the AP1 revised scheme. Viewpoint location shown on Map LV-08-304. For full details of the visual assessment at viewpoint 304-02-009 refer to Volume 5: Appendix LV-001-0MA01, Part 4.

This verifiable photomontage (Type 4 as described in Visual Representation of Development Proposals LI TGN 06/19) provides an illustration of how the AP1 revised scheme may look in 2038 (opening year) to help inform the visual impact assessment. The design of the AP1 revised scheme may be subject to design development in response to consultation. Development of detail design after AP1 submission will not result in any significant adverse change in the environmental effects reported in the assessment. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the AP1 revised scheme into the landscape.

Each individual image represents a 39.6° horizontal field of view with planar projection. At this scale the images do not lend themselves to direct comparison out in the field. Therefore, for viewing in the field, it is recommended that each image from the panoramic photomontage is printed individually, onto an A3 landscape sheet (image size 390mm x 260mm) to be viewed at a comfortable arms length. For further details on the selection of photomontage locations, verifiable methodology and presentation refer to the Landscape and visual assessment Technical Note - Approach to verifiable photomontages (SMR Volume 5, Appendix: CT-001-00001) of the main ES.

Camera:	Sony a7RII, FFS, Zeiss Loxia 50mm f/2.0 lens		
Approximate GPS co-ordinates ref.	369395, 358948	Direction of View:	62°
Elevation:	50.636m AOD	Height of Camera:	1.65m

	Map Number LV-01-707	<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 issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: Two Snowhill, Snow Hill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2022. Ordnance Survey Licence Number 100049190.</p>
	Map Name Verifiable Photomontage Operation Year 1 - Winter Viewpoint 304-02-009	
	Community area MA01: Hough to Walley's Green	
Doc Number: 2PT24-MWJ-EV-MAP-M000-004143-P01		Date: Jan 2022

Viewpoint 305-02-005: view west from Footpath Minshull Vernon 8/1 at Park House Farm

This viewpoint is representative of views experienced by residents of Park House Farm, Park Hall Farm, Parkfield Farm and by users of Footpath Minshull Vernon 8/1.

Current baseline - winter view

Date taken: 26/02/2019. Time taken: 10:52.



Winter verifiable photomontage - operation year 1



The viewpoint has been taken approximately 241.2m away from the Proposed Scheme. Viewpoint location shown on Map LV-01-708. For full details of the visual assessment at viewpoint 305-02-005 refer to Volume 5: Appendix LV-LV-08-MA01, Part 1.

This verifiable photomontage (Type 4 as described in Visual Representation of Development Proposals LI TGN 06/19) provides an illustration of how the Proposed Scheme may look in 2038 (opening year) to help inform the visual impact assessment. The design of the Proposed Scheme may be subject to design development in response to consultation. Development of detail design after hybrid Bill submission will not result in any significant adverse change in the environmental effects reported in the assessment. 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.

Each individual image represents a 39.6° horizontal field of view with planar projection. At this scale the images do not lend themselves to direct comparison out in the field. Therefore, for viewing in the field, it is recommended that each image from the panoramic photomontage is printed individually, onto an A3 landscape sheet (image size 390mm x 260mm) to be viewed at a comfortable arms length. For further details on the selection of photomontage locations, verifiable methodology and presentation refer to the Landscape and visual assessment Technical Note - Approach to verifiable photomontages (SMR Volume 5: Appendix CT-001-00001).

Camera:	Sony a7RII, FFS, Zeiss Loxia 50mm f/2.0 lens		
Approximate GPS co-ordinates ref.:	369243, 361217	Direction of View:	258°
Elevation:	52.326m AOD	Height of Camera:	1.64m

<p>Key Plan</p>	<p>Map Number LV-01-708</p>	<p>HS2 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><small>Registered in England. Registration number 06791686. Registered office: One Canada Square, London, E14 5AB. © Crown copyright and database rights 2020. Ordnance Survey Licence Number 100049150.</small></p>
	<p>Map Name Verifiable Photomontage Operation Year 1 (2038) - Winter Viewpoint 305-02-005</p>	
	<p>Community Area : MA01</p>	

Date: May 2021

Viewpoint 305-02-005: View west from Footpath Minshull Vernon 8/1 at Park House Farm

This viewpoint is representative of views experienced by residents of Park House Farm, Park Hall Farm, Parkfield Farm and by users of Footpath Minshull Vernon 8/1

Current baseline - winter view

Date taken: 26/02/2019 Time taken: 10:52



Winter verifiable photomontage - operation year 1



The viewpoint has been taken approximately 241.2m away from the AP1 revised scheme. Viewpoint location shown on Map LV-08-305 and LV-08306b. For full details of the visual assessment at viewpoint 305-02-005 refer to Volume 5: Appendix LV-001-0MA01, Part 4.

This verifiable photomontage (Type 4 as described in Visual Representation of Development Proposals LI TGN 06/19) provides an illustration of how the AP1 revised scheme may look in 2038 (opening year) to help inform the visual impact assessment. The design of the AP1 revised scheme may be subject to design development in response to consultation. Development of detail design after APX submission will not result in any significant adverse change in the environmental effects reported in the assessment. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the AP1 revised scheme into the landscape.

Each individual image represents a 39.6° horizontal field of view with planar projection. At this scale the images do not lend themselves to direct comparison out in the field. Therefore, for viewing in the field, it is recommended that each image from the panoramic photomontage is printed individually, onto an A3 landscape sheet (image size 390mm x 260mm) to be viewed at a comfortable arms length. For further details on the selection of photomontage locations, verifiable methodology and presentation refer to the Landscape and visual assessment Technical Note - Approach to verifiable photomontages (SMR Volume 5, Appendix: CT-001-00001) of the main ES.

Camera:	Sony a7RII, FFS, Zeiss Loxia 50mm f/2.0 lens		
Approximate GPS co-ordinates ref.	369243, 361217	Direction of View:	258°
Elevation:	52.326m AOD	Height of Camera:	1.64m

	Map Number LV-01-708	<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 issued in part or issued incomplete in any way.</p> <p>Registered in England: Registration number 06791686 Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2021. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: 2PT24-MWJ-EV-MAP-M000-004144-P01 Date: Jan 2022</p>
	Map Name Verifiable Photomontage Operation Year 1 - Winter Viewpoint 305-02-005	
	Community area MA01: Hough to Walley's Green	

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Viewpoint 304-03-012: view north from Parkers Road

This new viewpoint is located in an area where there will be changes to the original scheme. It is located in on Parkers Road and is representative of views experienced by users of Footpath Crewe 12/2 and road users on Parkers Road.

Current baseline - winter view

Date taken: 12/01/2022 Time taken: 12:21



Winter verifiable photomontage - construction



The viewpoint has been taken approximately 56.679 metres away from the SES1 scheme/ AP1 revised scheme. Viewpoint location shown on Map LV-08-304. For full details of the visual assessment at viewpoint 304-03-012 refer to SES1 and AP1 ES Volume 5: Appendix LV-001-0MA01, Part 4.

This verifiable photomontage (Type 4 as described in Visual Representation of Development Proposals LI TGN 06/19) provides an illustration of how the AP1 revised scheme may look during the peak construction to help inform the visual impact assessment. The construction methods and siting of construction activities of the AP1 revised scheme may be subject to change in response to consultation and ongoing design. The extent of land required temporarily to construct the AP1 revised scheme will not extend beyond that shown in the photomontage. Changes in the construction of the AP1 revised scheme will not result in any significant adverse change in the environmental effects reported in the assessment.

Each individual image represents a 39.6° horizontal field of view with planar projection. At this scale the images do not lend themselves to direct comparison out in the field. Therefore, for viewing in the field, it is recommended that each image from the panoramic photomontage is printed individually, onto an A3 landscape sheet (image size 390mm x 260mm) to be viewed at a comfortable arms length. For further details on the selection of photomontage locations, verifiable methodology and presentation refer to the Landscape and visual assessment Technical Note - Approach to verifiable photomontages (SMR Volume 5, Appendix: CT-001-00001) of the main ES.

Camera:	Sony a7RII, FFS, Zeiss Loxia 50mm f/2.0 lens		
Approximate GPS co-ordinates ref.	369881.7, 358114	Direction of View:	344.55°
Elevation:	56.679m AOD	Height of Camera:	1.474m

	Map Number LV-01-789	HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it issued in part or issued incomplete in any way. Registered in England: Registration number 06791686 Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6QA. © Crown copyright and database rights 2021. Ordnance Survey Licence Number 100049190.	
	Map Name Verifiable Photomontage Peak Construction Phase - Winter Viewpoint 304-03-012		
	Community area MA01: Hough to Walley's Green		
		Doc Number: 2PT24-MWJ-EV-MAP-M000-004140-P01	
		Date: Jan 2022	

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Viewpoint 304-03-012: view north from Parkers Road

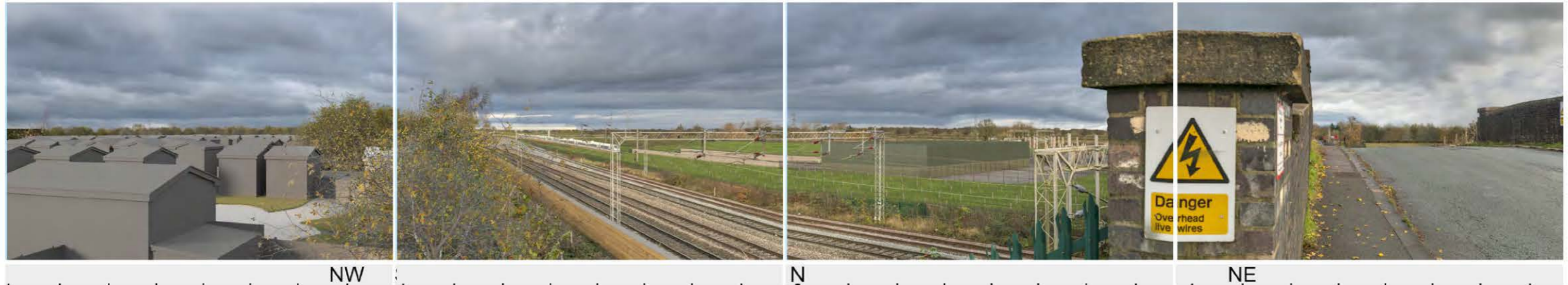
This new viewpoint is located in an area where there will be changes to the original scheme. It is located in on Parkers Road and is representative of views experienced by users of Footpath Crewe 12/2 and road users on Parkers Road.

Current baseline - winter view

Date taken: 12/01/2022 Time taken: 12:21



Winter verifiable photomontage - operation year 1



The viewpoint has been taken approximately 56.679 metres away from the SES1 scheme/ AP1 revised scheme. Viewpoint location shown on Map LV-08-304. For full details of the visual assessment at viewpoint 304-03-012 refer to SES1 and AP1 ES Volume 5: Appendix LV-001-0MA01, Part 4.

This verifiable photomontage (Type 4 as described in Visual Representation of Development Proposals LI TGN 06/19) provides an illustration of how the AP1 revised scheme may look in 2038 (opening year) to help inform the visual impact assessment. The design of the LV-08 AP1 revised scheme may be subject to design development in response to consultation. Development of detail design after AP1 submission will not result in any significant adverse change in the environmental effects reported in the assessment. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the AP1 revised scheme into the landscape.

Each individual image represents a 39.6° horizontal field of view with planar projection. At this scale the images do not lend themselves to direct comparison out in the field. Therefore, for viewing in the field, it is recommended that each image from the panoramic photomontage is printed individually, onto an A3 landscape sheet (image size 390mm x 260mm) to be viewed at a comfortable arms length. For further details on the selection of photomontage locations, verifiable methodology and presentation refer to the Landscape and visual assessment Technical Note - Approach to verifiable photomontages (SMR Volume 5, Appendix: CT-001-00001) of the main ES.

Camera:	Sony a7RII, FFS, Zeiss Loxia 50mm f/2.0 lens		
Approximate GPS co-ordinates ref.	369881.7, 358114	Direction of View:	344.55°
Elevation:	56.679m AOD	Height of Camera:	1.474m

	Map Number LV-01-790	<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 issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2021. Ordnance Survey Licence Number 100049190.</p>
	Map Name Verifiable Photomontage Operation Year 1 - Winter Viewpoint 304-03-012	
	Community area MA01: Hough to Walley's Green	
Doc Number: 2PT24-MWJ-EV-MAP-M000-004141-P01		Date: Jan 2022

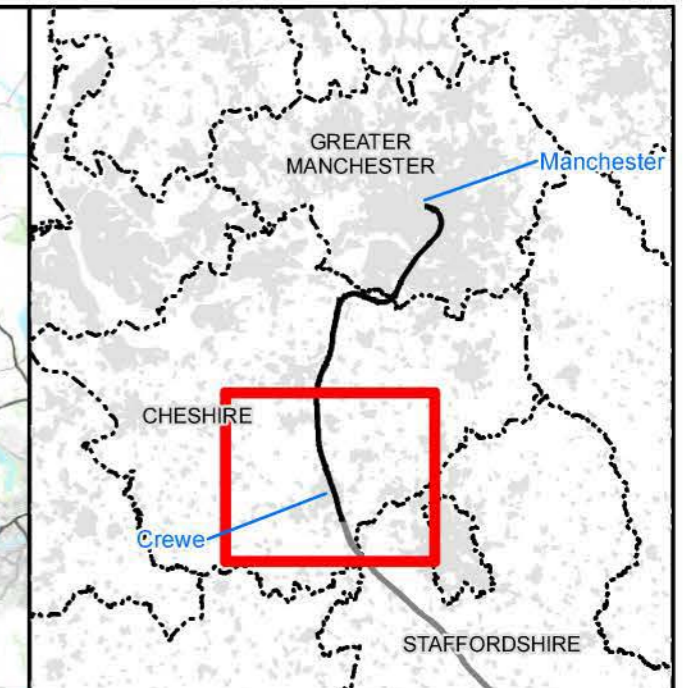
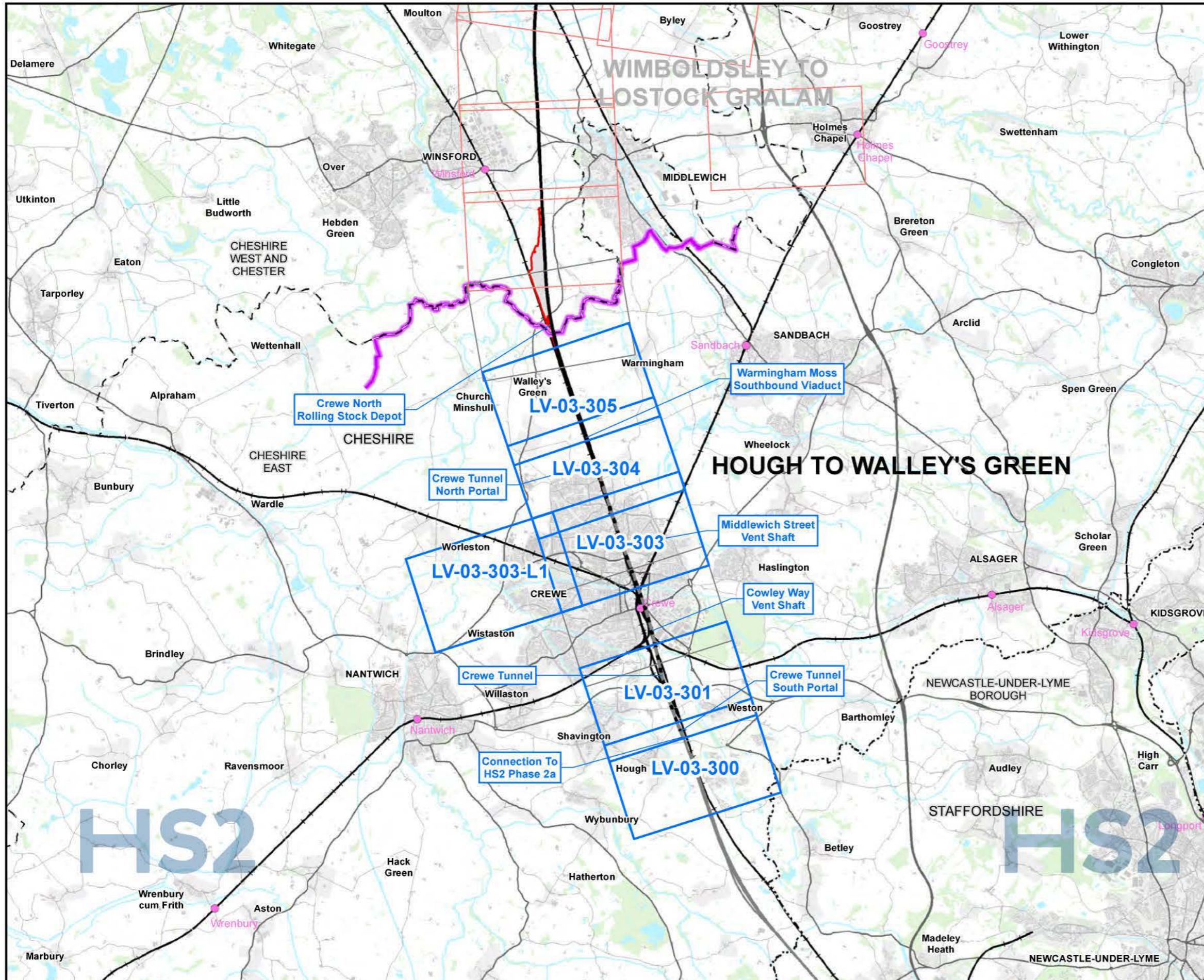
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High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 1 and Additional Provision 1 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 AP1 revised scheme has been assessed to give rise to new or different significant effects during the construction phase.

The base mapping shown on the plans is reflective of 2021 Ordnance Survey (OS) data.

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

Map Number: LV-03-INDEX-MA01

Map Name: Index Map of:
Construction Phase Significantly Affected Viewpoints
SES1 and AP1 ES

Community Area MA01:
Hough to Walley's Green

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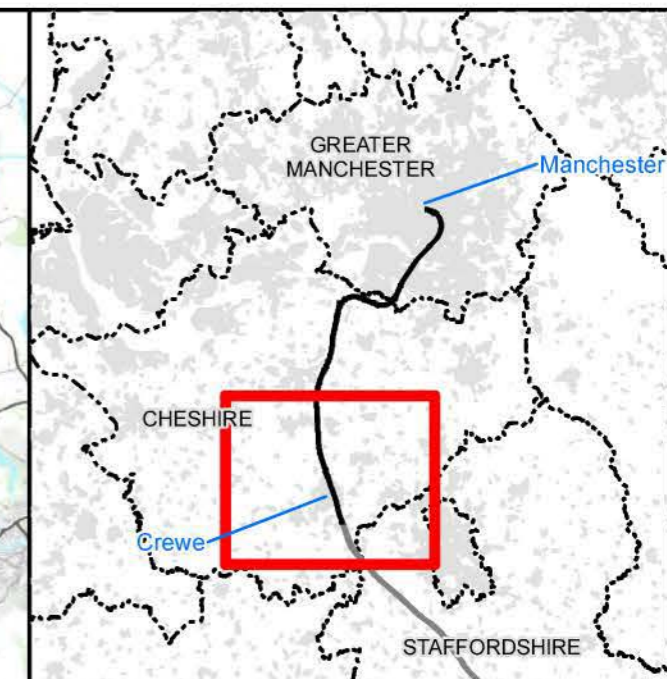
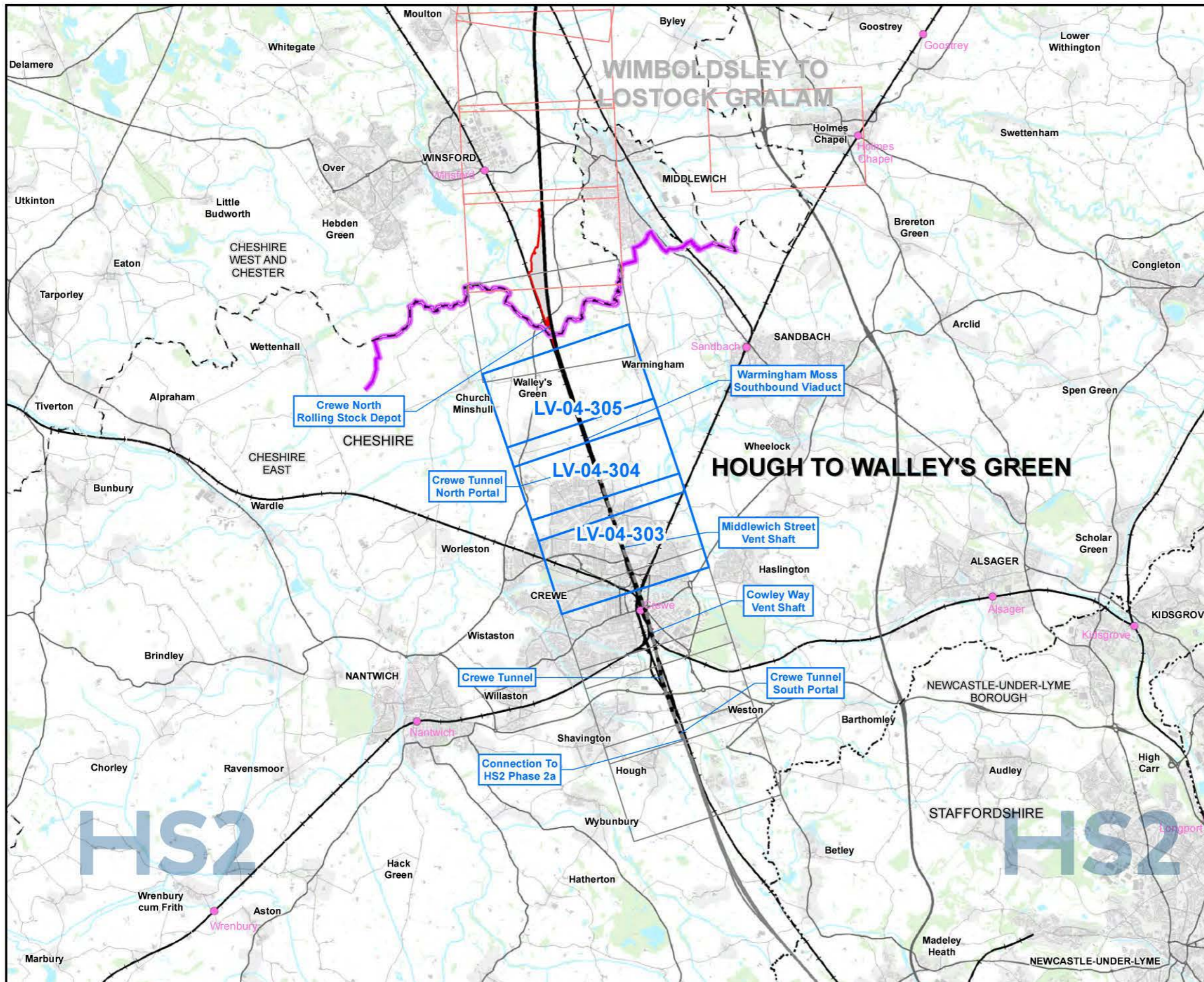
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Doc Number: 2PT24-MWJ-EV-MAP-M000-000072-P01

Date: 13/04/22

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



Map Series Information:

Maps showing the viewpoint locations from which the AP1 revised scheme has been assessed to give rise to new or different significant effects during the operational phase.

The base mapping shown on the plans is reflective of 2021 Ordnance Survey (OS) data.

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

Map Number	LV-04-INDEX-MA01
Map Name	Index Map of: Operational Phase Significantly Affected Viewpoints SES1 and AP1 ES
	Community Area MA01: Hough to Walley's Green

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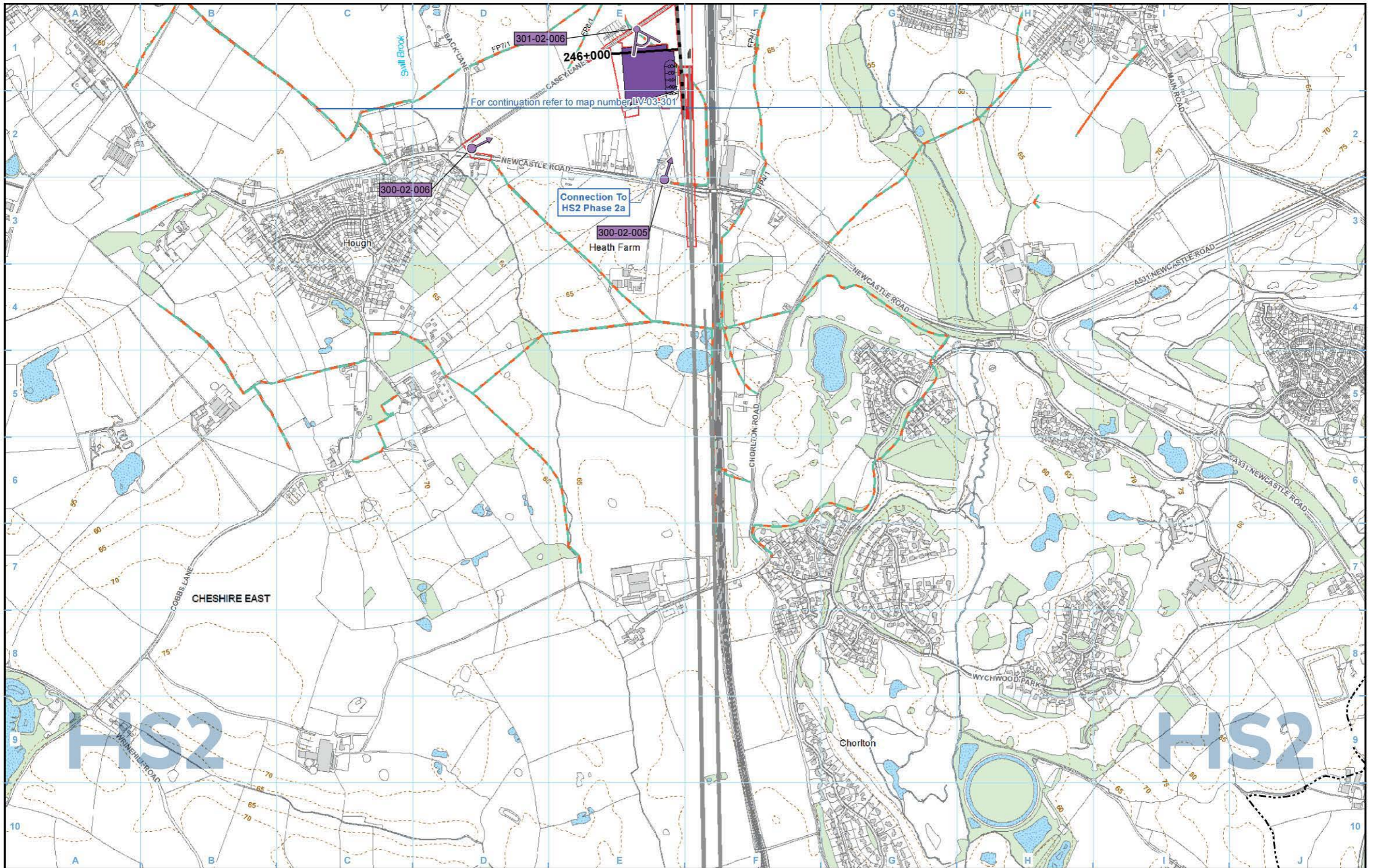
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Doc Number: 2PT24-MWJ-EV-MAP-M000-000126-P01

Date: 13/04/22



Legend

Route in tunnel	Public Rights of Way (PRoW)	Significantly affected viewpoint	Engineering earthworks:
Route on surface	5m contours	Significantly affected photomontage	Embankment
Depot, station, headhouse or portal building	Water body	Significantly affected viewpoint or photomontage number	Cutting
Land potentially required during construction	Existing woodland and tree belts		Non engineering earthworks:
Community area boundary	Construction compounds		Embankment
County boundary			Cutting
District/Borough boundary			

Map Number: LV-03-300

Map Name: Construction Phase Significantly Affected Viewpoints

Community Area MA01: Hough to Walley's Green

HS2

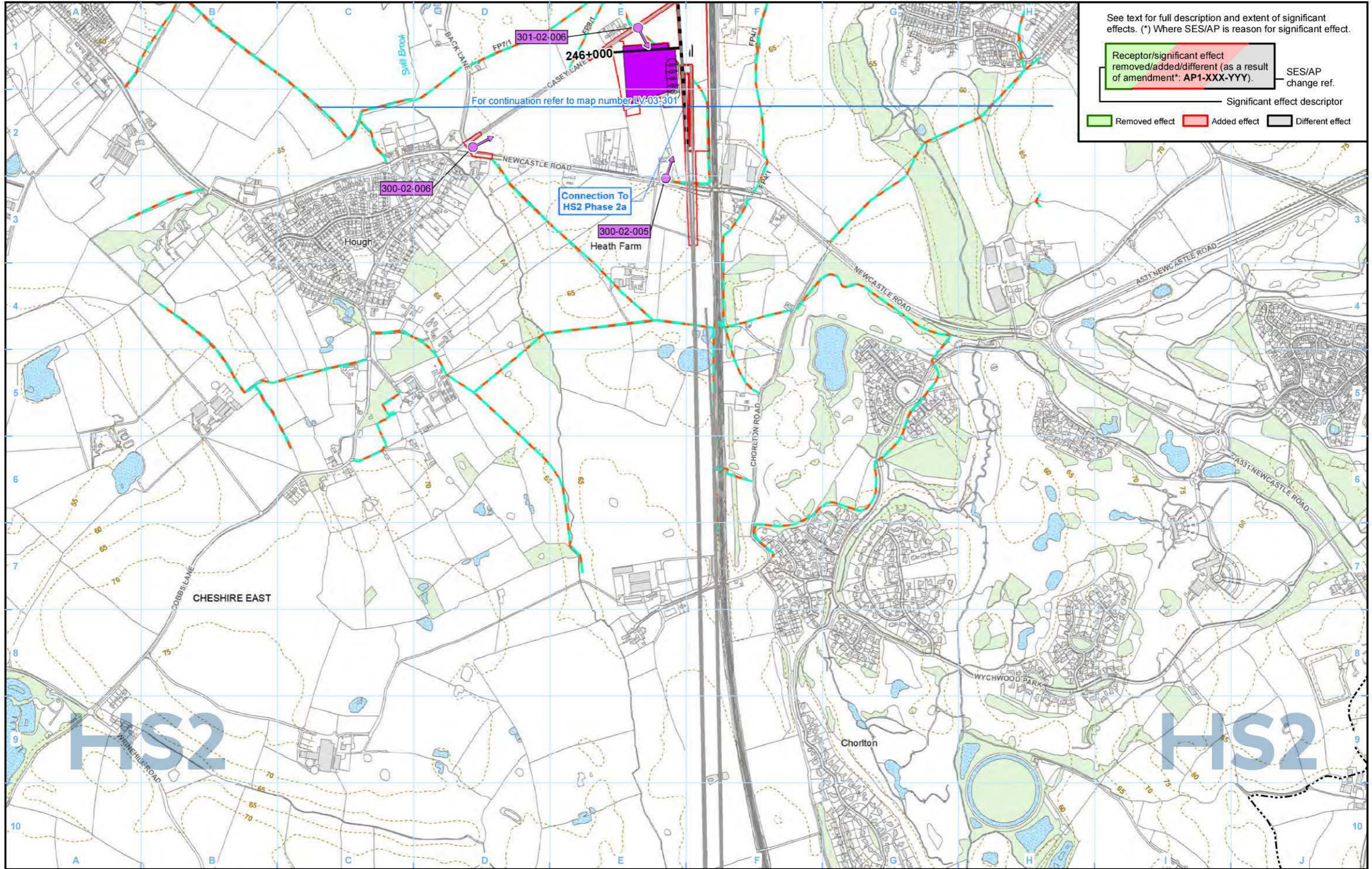
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003026-P07

Scale at A3: 1:10,000

Date: 03/08/21



See text for full description and extent of significant effects. (*) Where SES/AP is reason for significant effect.

Receptor/significant effect removed/added/different (as a result of amendment*: AP1-XXX-YYY).	SES/AP change ref.
Significant effect descriptor	
Removed effect	Added effect
Different effect	

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Public Rights of Way (PRoW)
- 5m contours
- Water body
- Existing woodland and tree belts
- Construction compounds

- Significantly affected viewpoint
- Significantly affected photomontage
- Significantly affected viewpoint or photomontage number

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-03-300

Map Name: Construction Phase Significantly Affected Viewpoints SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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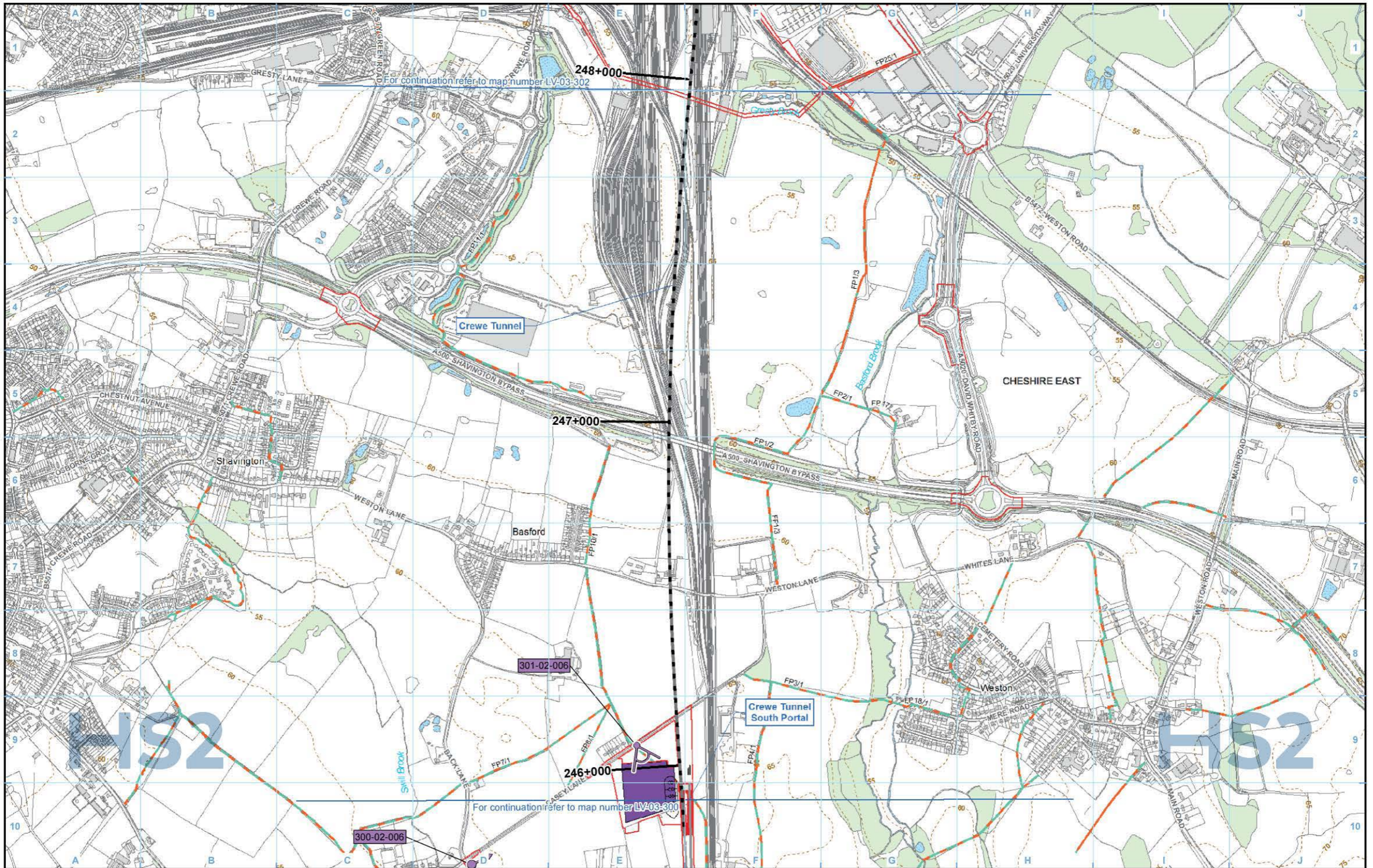
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Doc Number: 2PT24-MWJ-EV-MAP-M000-003026-P01

Date: 22/04/22

Scale at A3: 1:10,000

Metres



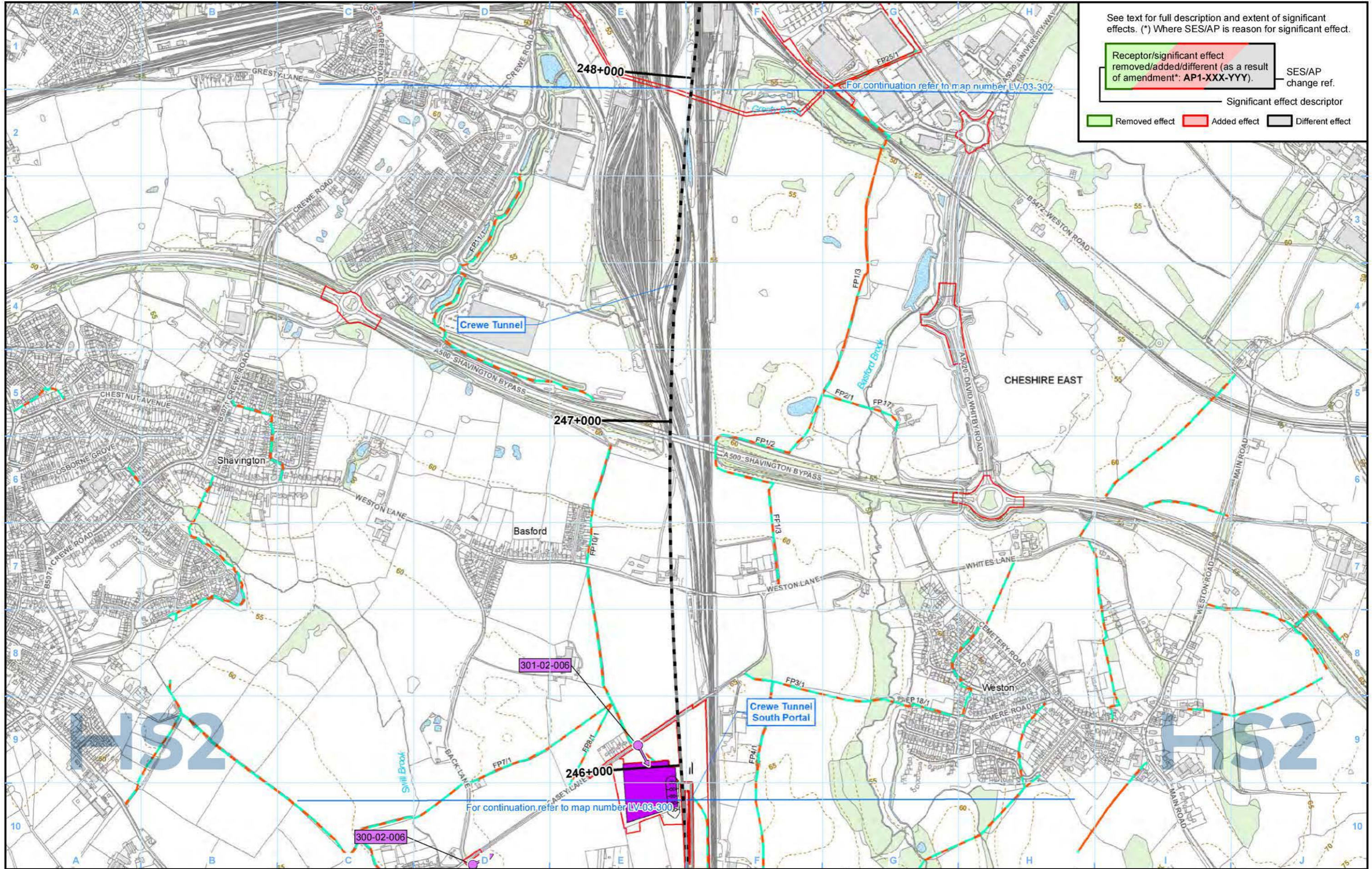
Legend <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Public Rights of Way (PRoW) 5m contours Water body Existing woodland and tree belts Construction compounds Significantly affected viewpoint Significantly affected photomontage Significantly affected viewpoint or photomontage number 		Engineering earthworks: <ul style="list-style-type: none"> Embankment Cutting Non engineering earthworks: <ul style="list-style-type: none"> Embankment Cutting 		Map Number LV-03-301	<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England: Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2020 OS 100049190</p> <p>Doc Number: 2DE01-MWJ-EV-MAP-M000-000080-P07</p>
Construction Phase Significantly Affected Viewpoints Community Area MA01: Hough to Walley's Green		Scale at A3: 1:10,000 	Date: 03/08/21		

See text for full description and extent of significant effects. (*) Where SES/AP is reason for significant effect.

Receptor/significant effect removed/added/different (as a result of amendment*: AP1-XXX-YYY). SES/AP change ref.

Significant effect descriptor

Removed effect Added effect Different effect



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Public Rights of Way (PRoW)
- 5m contours
- Water body
- Existing woodland and tree belts
- Construction compounds
- Significantly affected viewpoint
- Significantly affected photomontage
- Significantly affected viewpoint or photomontage number

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-03-301

Map Name: Construction Phase Significantly Affected Viewpoints SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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Scale at A3: 1:10,000

Date: 22/04/22

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Scale at A3: 1:10,000

Date: 22/04/22



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Public Rights of Way (PRoW)
 - 5m contours
 - Water body
 - Existing woodland and tree belts
 - Construction compounds
 - Significantly affected viewpoint
 - Significantly affected photomontage
 - Significantly affected viewpoint or photomontage number

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

Map Number	LV-03-303
Map Name	Construction Phase Significantly Affected Viewpoints
Community Area MA01: Hough to Walley's Green	

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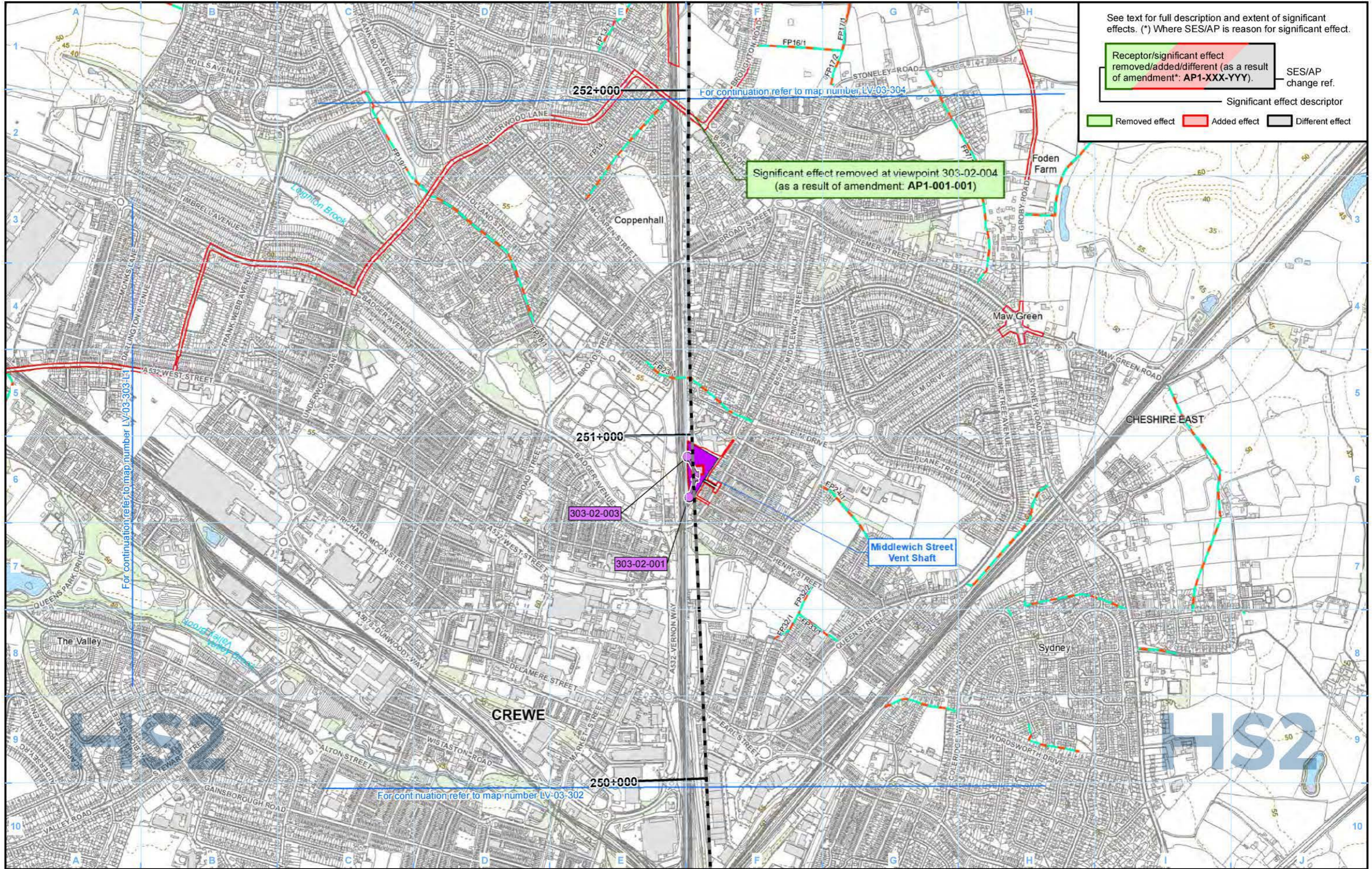
Doc Number: 2DE01-MWJ-EV-MAP-M000-000082-P07

Scale at A3: 1:10,000

0 100 200 300 400
Metres

Date: 03/08/21

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See text for full description and extent of significant effects. (*) Where SES/AP is reason for significant effect.

Receptor/significant effect removed/added/different (as a result of amendment*: AP1-XXX-YYY). — SES/AP change ref.

Significant effect descriptor

Removed effect Added effect Different effect

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Public Rights of Way (PRoW)
 - 5m contours
 - Water body
 - Existing woodland and tree belts
 - Construction compounds
 - Significantly affected viewpoint
 - Significantly affected photomontage
 - Significantly affected viewpoint or photomontage number

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

Map Number: LV-03-303

Map Name: Construction Phase Significantly Affected Viewpoints SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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Scale at A3: 1:10,000

Date: 22/04/22



Legend

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

Map Number: LV-04-303

Map Name: Operational Phase Significantly Affected Viewpoints

Community Area MA01: Hough to Walley's Green

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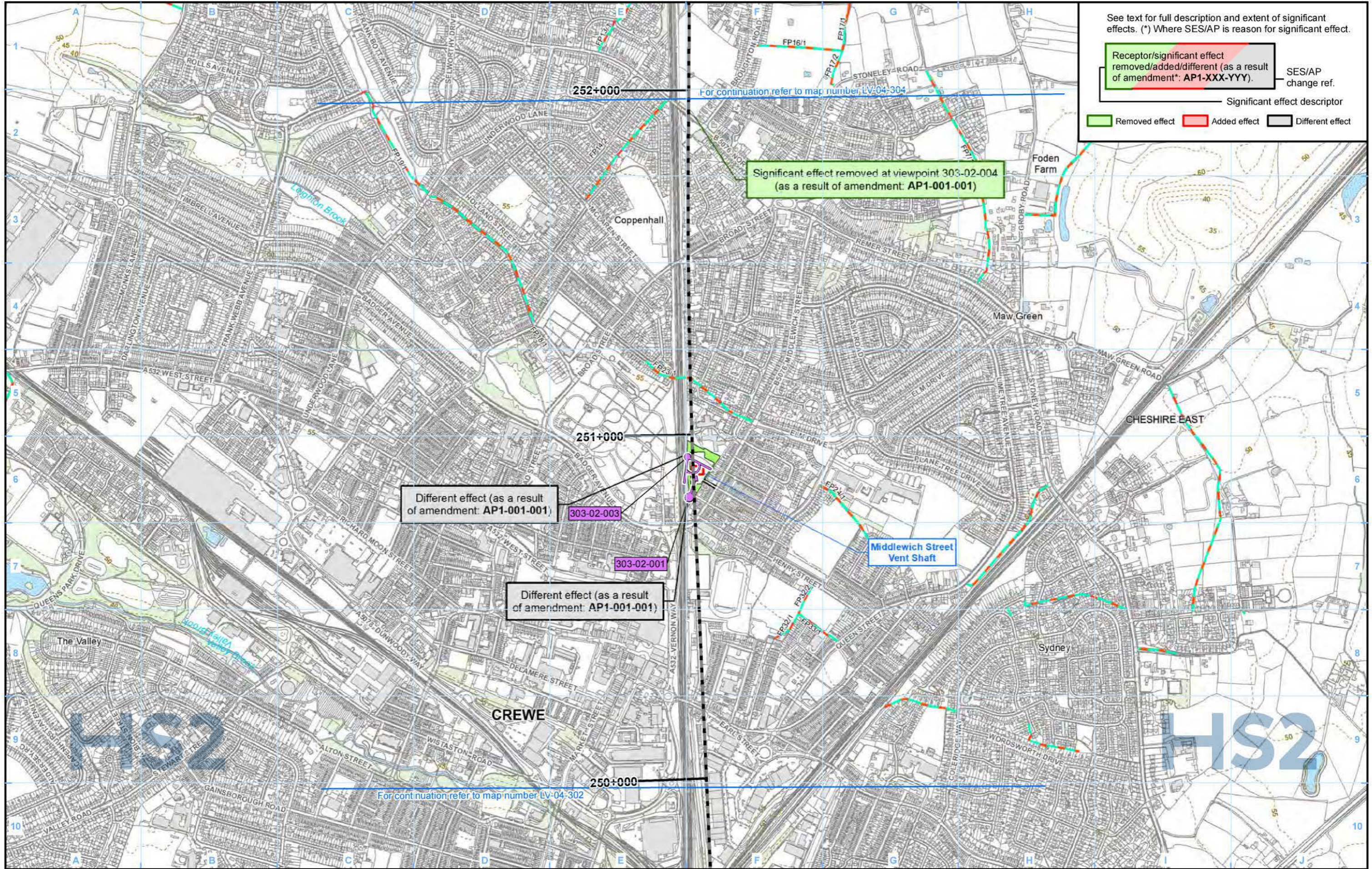
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Doc Number: 2DE01-MWJ-EV-MAP-M000-000136-P07

Scale at A3: 1:10,000

Date: 11/08/21



See text for full description and extent of significant effects. (*) Where SES/AP is reason for significant effect.

Receptor/significant effect removed/added/different (as a result of amendment*: AP1-XXX-YYY). — SES/AP change ref.

Significant effect descriptor

Removed effect (green) Added effect (red) Different effect (grey)

Significant effect removed at viewpoint 303-02-004 (as a result of amendment: AP1-001-001)

Different effect (as a result of amendment: AP1-001-001)

303-02-003

303-02-001

Different effect (as a result of amendment: AP1-001-001)

Middlewich Street Vent Shaft

Legend

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

- Public Rights of Way (PRoW)
- 5m contours
- Water body
- Existing woodland and tree belts
- Proposed tree planting

- Significantly affected viewpoint
- Significantly affected photomontage
- Significantly affected viewpoint or photomontage number

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-04-303

Map Name: Operational Phase Significantly Affected Viewpoints SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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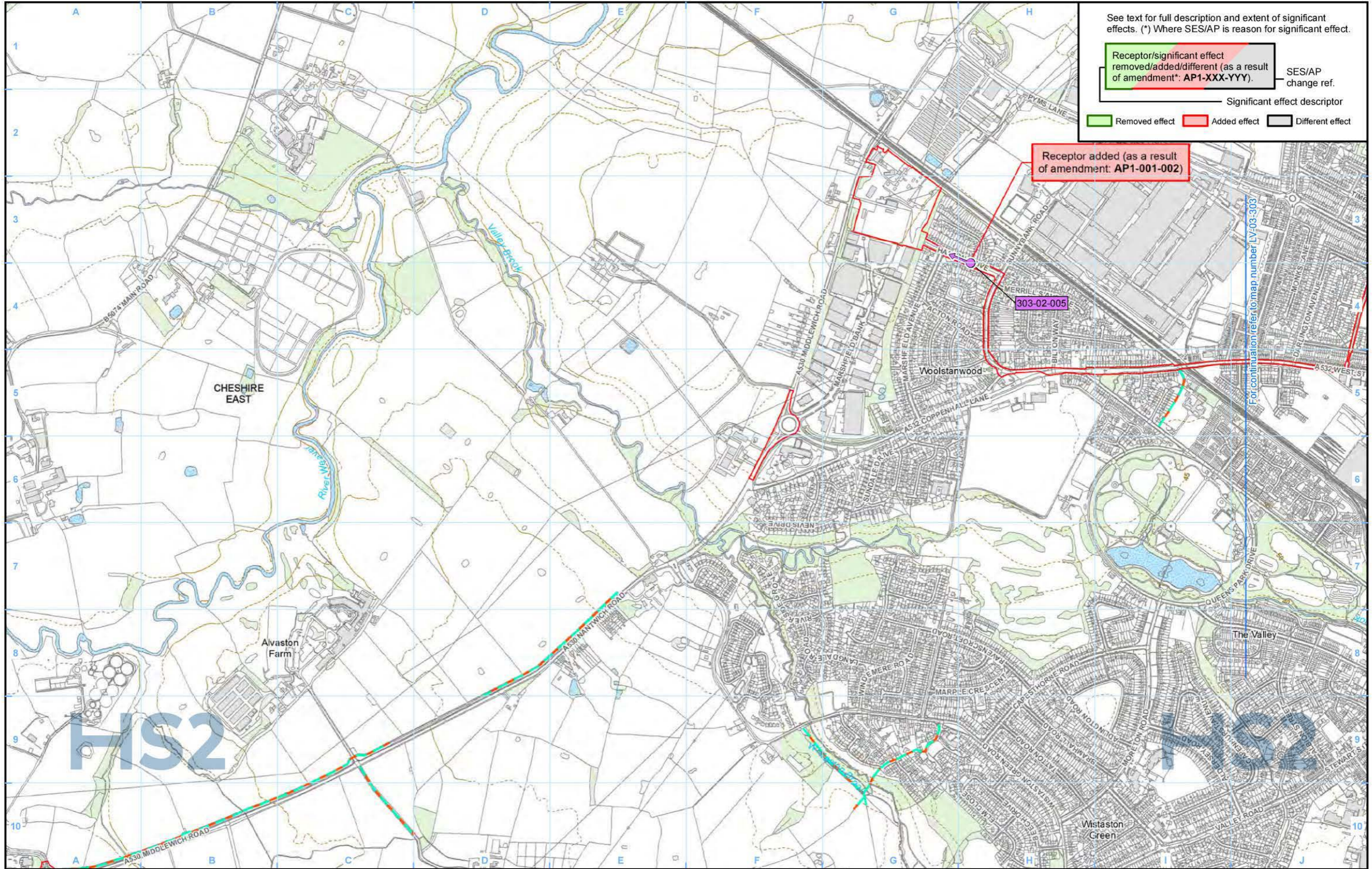
Doc Number: 2PT24-MWJ-EV-MAP-M000-000136-P01

Date: 22/04/22

Scale at A3: 1:10,000

Metres

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See text for full description and extent of significant effects. (*) Where SES/AP is reason for significant effect.

Receptor/significant effect removed/added/different (as a result of amendment*: AP1-XXX-YYY). SES/AP change ref.

Significant effect descriptor

Removed effect Added effect Different effect

Receptor added (as a result of amendment: AP1-001-002)

303-02-005

For continuation refer to map number LV-03-303

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Public Rights of Way (PRoW)
 - 5m contours
 - Water body
 - Existing woodland and tree belts
 - Construction compounds

- Significantly affected viewpoint
- Significantly affected photomontage
- Significantly affected viewpoint or photomontage number

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

Map Number: LV-03-303-L1

Map Name: Construction Phase Significantly Affected Viewpoints SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

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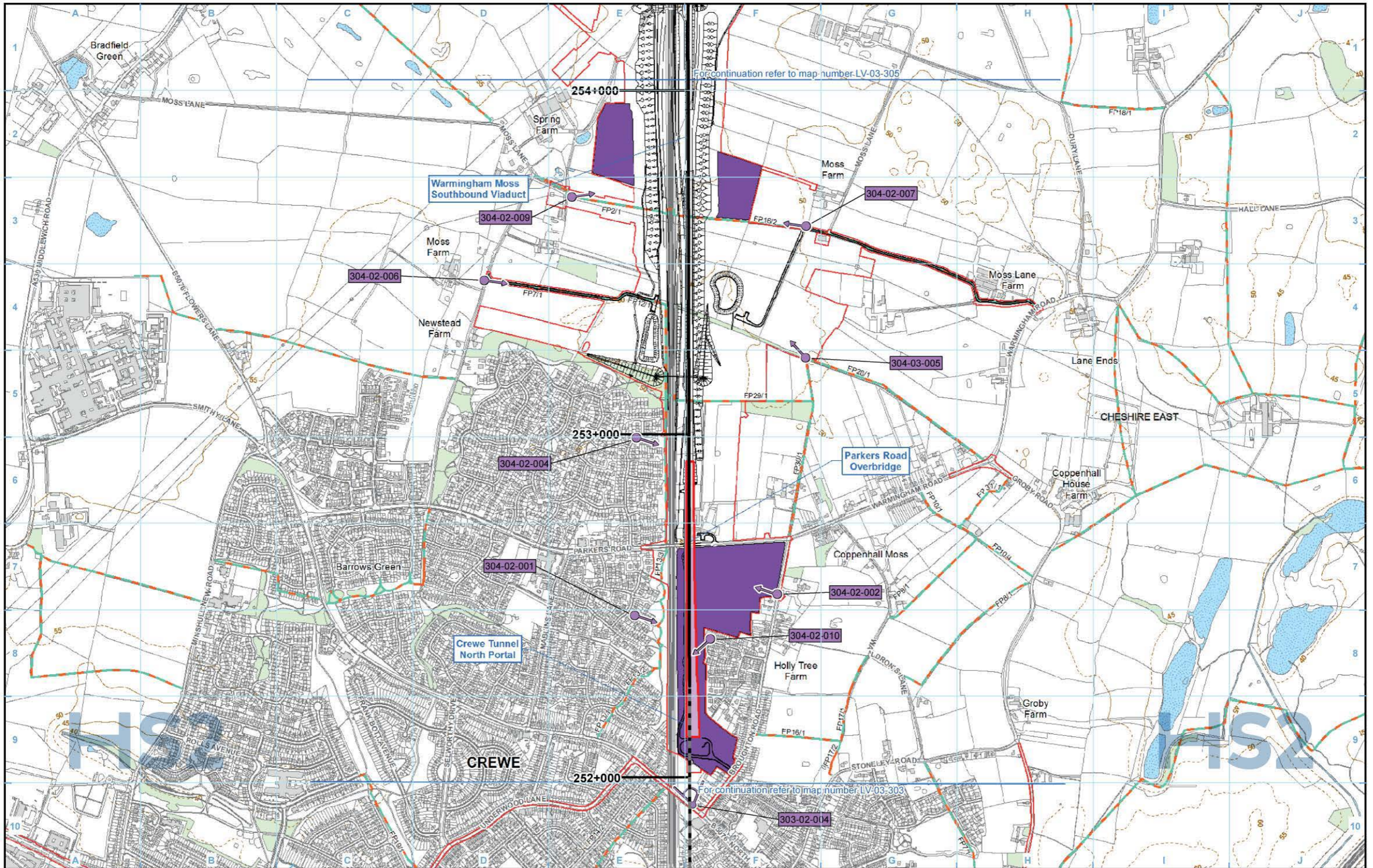
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Date: 22/04/22

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Legend

Route in tunnel	Public Rights of Way (PRoW)	Significantly affected viewpoint	Engineering earthworks:
Route on surface	5m contours	Significantly affected photomontage	Embankment
Depot, station, headhouse or portal building	Water body	Significantly affected viewpoint or photomontage number	Cutting
Land potentially required during construction	Existing woodland and tree belts		Non engineering earthworks:
Community area boundary	Construction compounds		Embankment
County boundary			Cutting
District/Borough boundary			

Map Number: LV-03-304

Map Name: Construction Phase Significantly Affected Viewpoints

Community Area MA01: Hough to Walley's Green

HS2

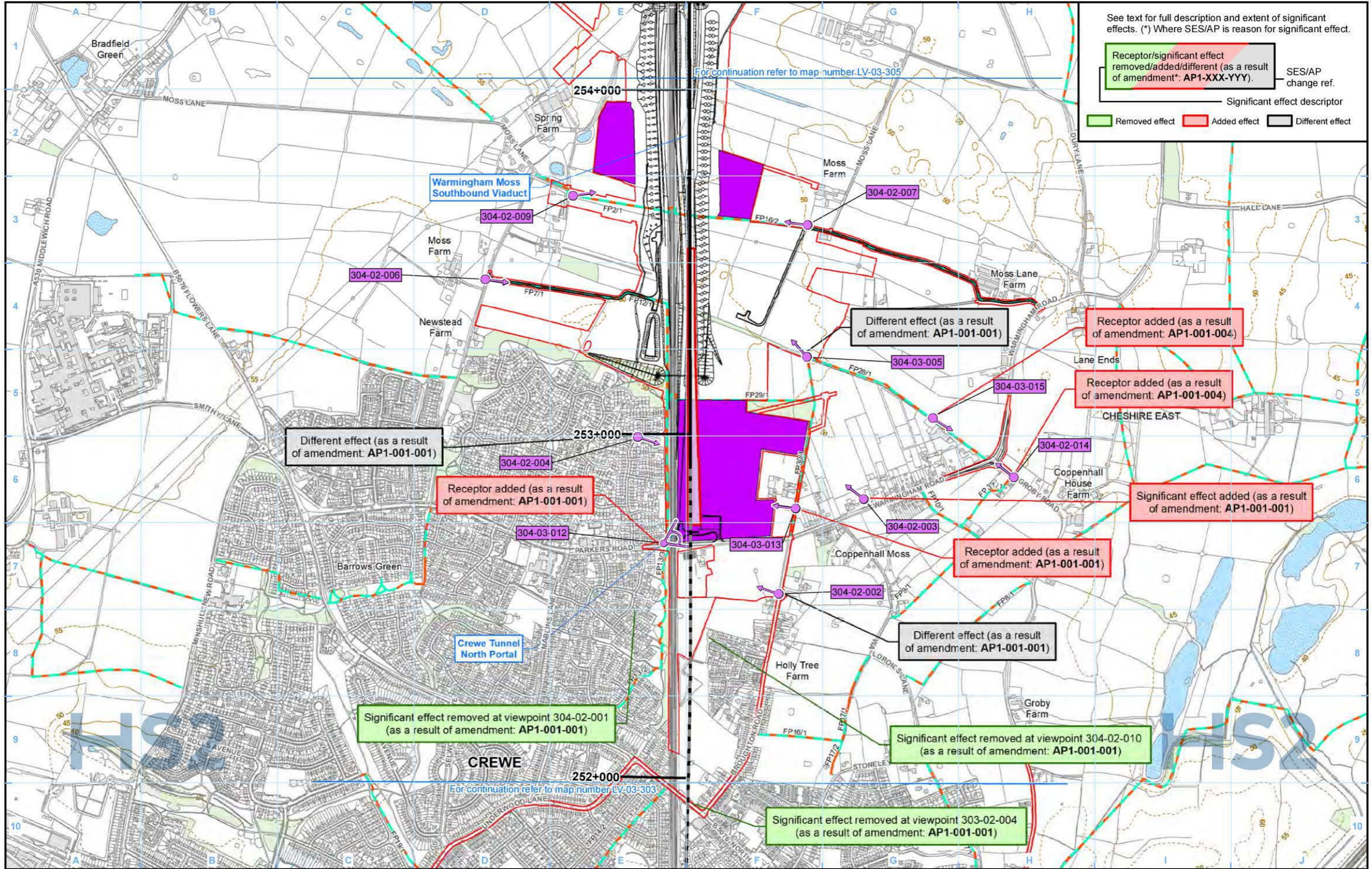
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Date: 03/08/21



See text for full description and extent of significant effects. (*) Where SES/AP is reason for significant effect.

Receptor/significant effect removed/added/different (as a result of amendment*: AP1-XXX-YYY). SES/AP change ref.

Significant effect descriptor

Removed effect Added effect Different effect

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Public Rights of Way (PRoW)
- 5m contours
- Water body
- Existing woodland and tree belts
- Construction compounds
- Significantly affected viewpoint
- Significantly affected photomontage
- Significantly affected viewpoint or photomontage number

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-03-304

Map Name: Construction Phase Significantly Affected Viewpoints SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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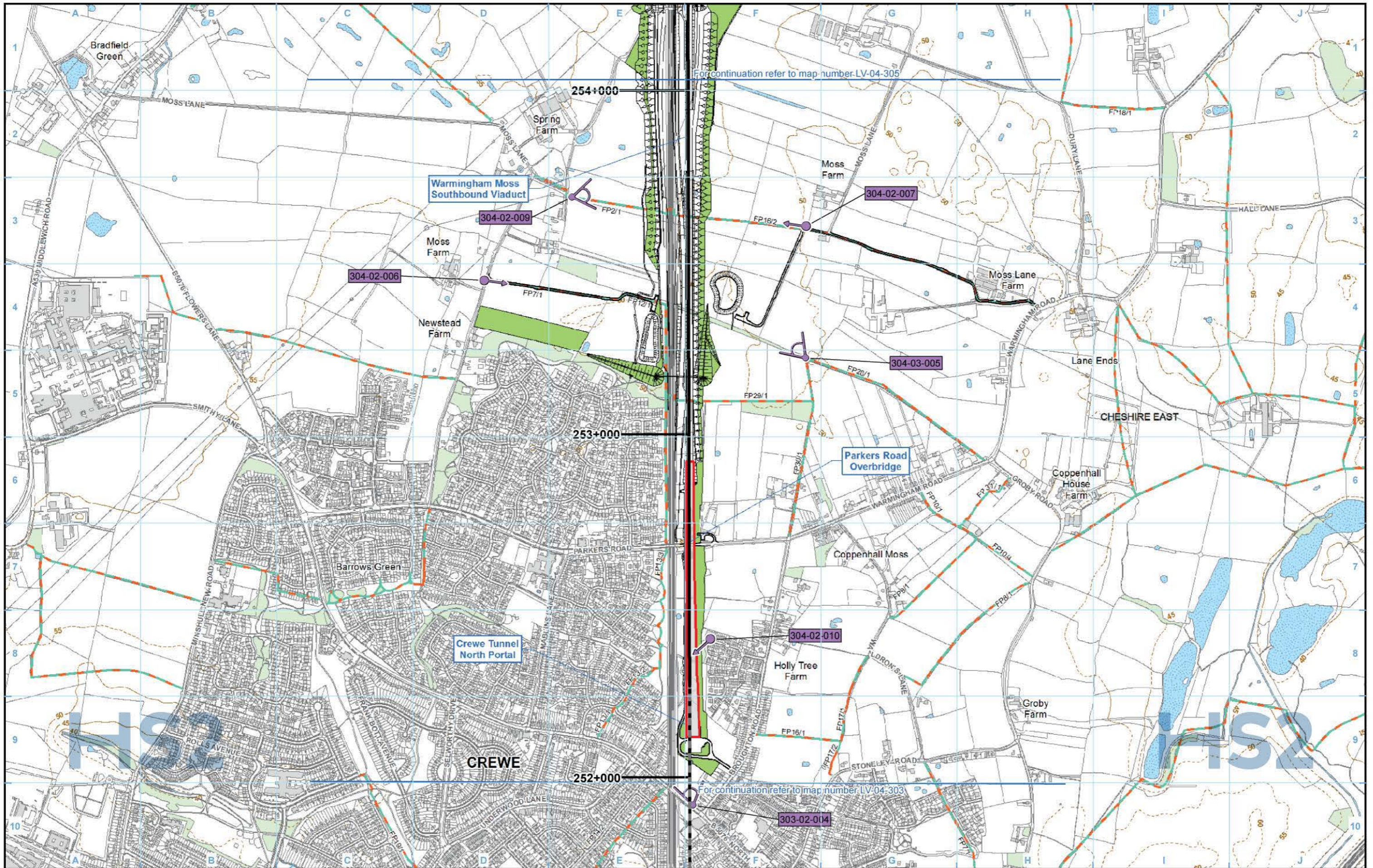
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Date: 22/04/22

Scale at A3: 1:10,000



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Public Rights of Way (PRow)
- 5m contours
- Water body
- Existing woodland and tree belts
- Proposed tree planting
- Significantly affected viewpoint
- Significantly affected photomontage
- Significantly affected viewpoint or photomontage number

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-04-304

Map Name: Operational Phase Significantly Affected Viewpoints

Community Area MA01: Hough to Walley's Green

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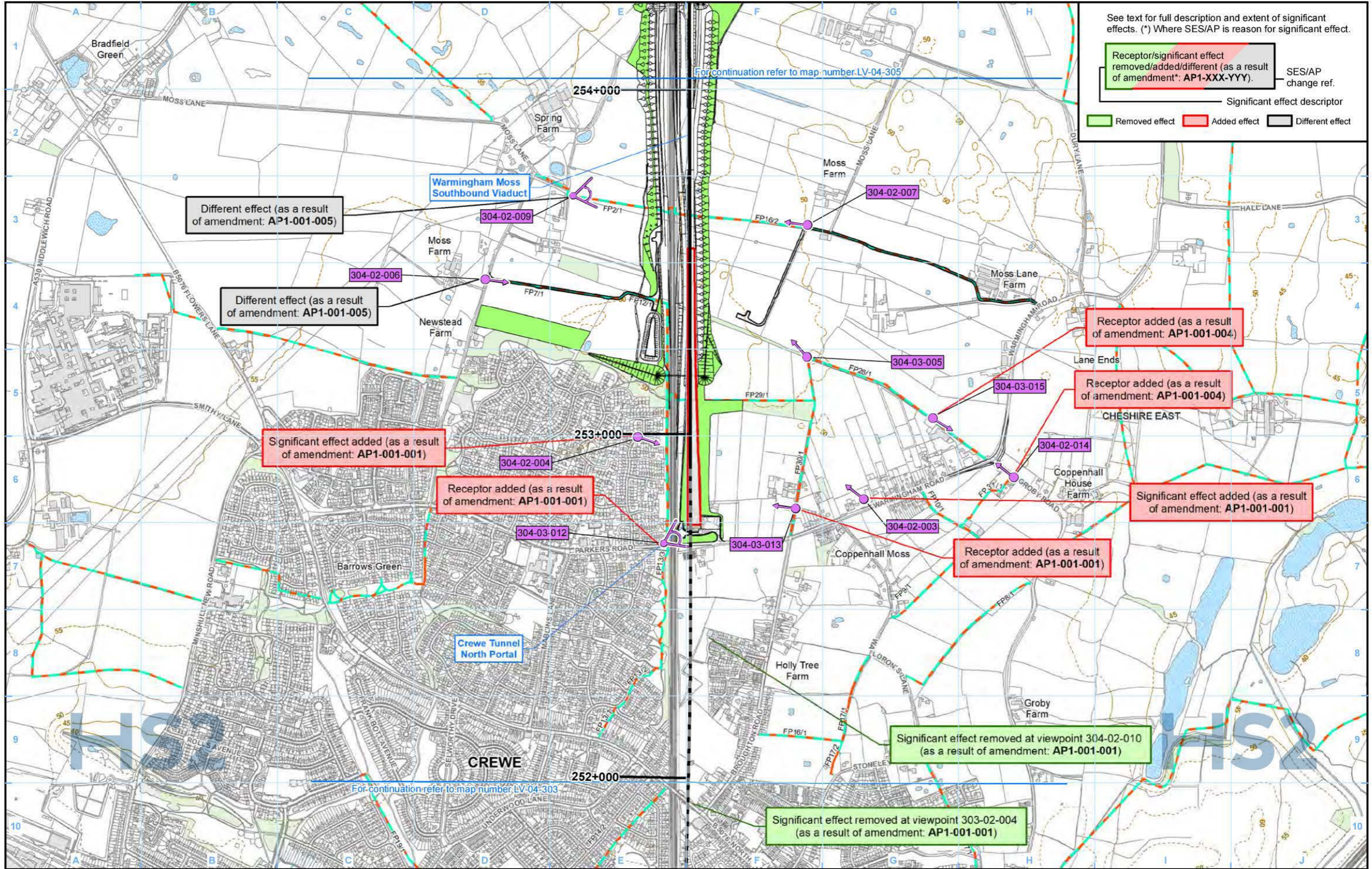
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Date: 11/08/21



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Receptor/significant effect removed/added/different (as a result of amendment*: AP1-XXX-YYY). SES/AP change ref.

Significant effect descriptor

Removed effect Added effect Different effect

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Public Rights of Way (PRoW)
 - 5m contours
 - Water body
 - Existing woodland and tree belts
 - Proposed tree planting
 - Significantly affected viewpoint
 - Significantly affected photomontage
 - Significantly affected viewpoint or photomontage number

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

Map Number: LV-04-304

Map Name: Operational Phase Significantly Affected Viewpoints SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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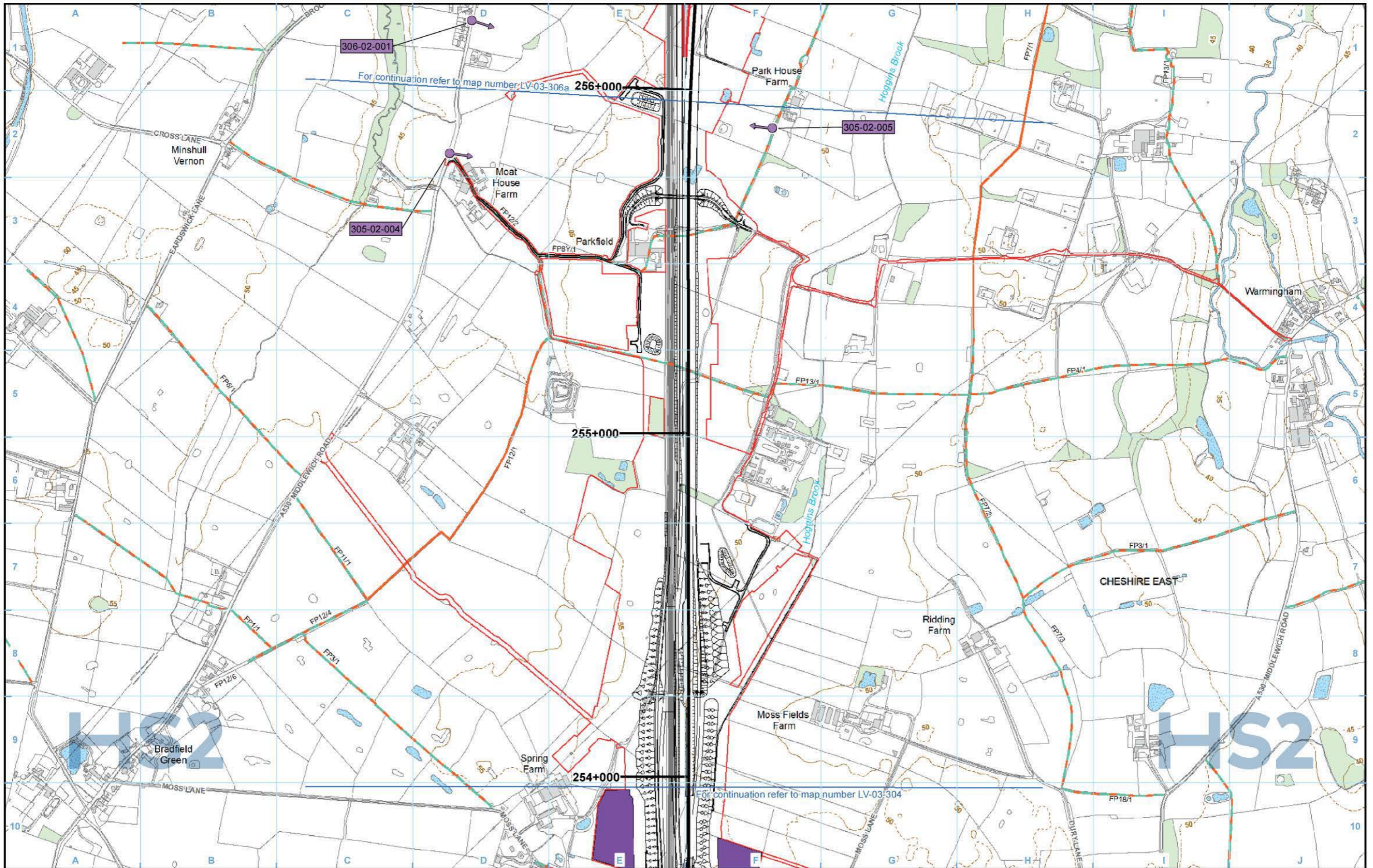
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Date: 22/04/22



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Public Rights of Way (PRoW)
- 5m contours
- Water body
- Existing woodland and tree belts
- Construction compounds
- Significantly affected viewpoint
- Significantly affected photomontage
- Significantly affected viewpoint or photomontage number
- Engineering earthworks: Embankment
- Engineering earthworks: Cutting
- Non engineering earthworks: Embankment
- Non engineering earthworks: Cutting

Map Number: LV-03-305

Map Name: Construction Phase Significantly Affected Viewpoints

Community Area MA01: Hough to Walley's Green

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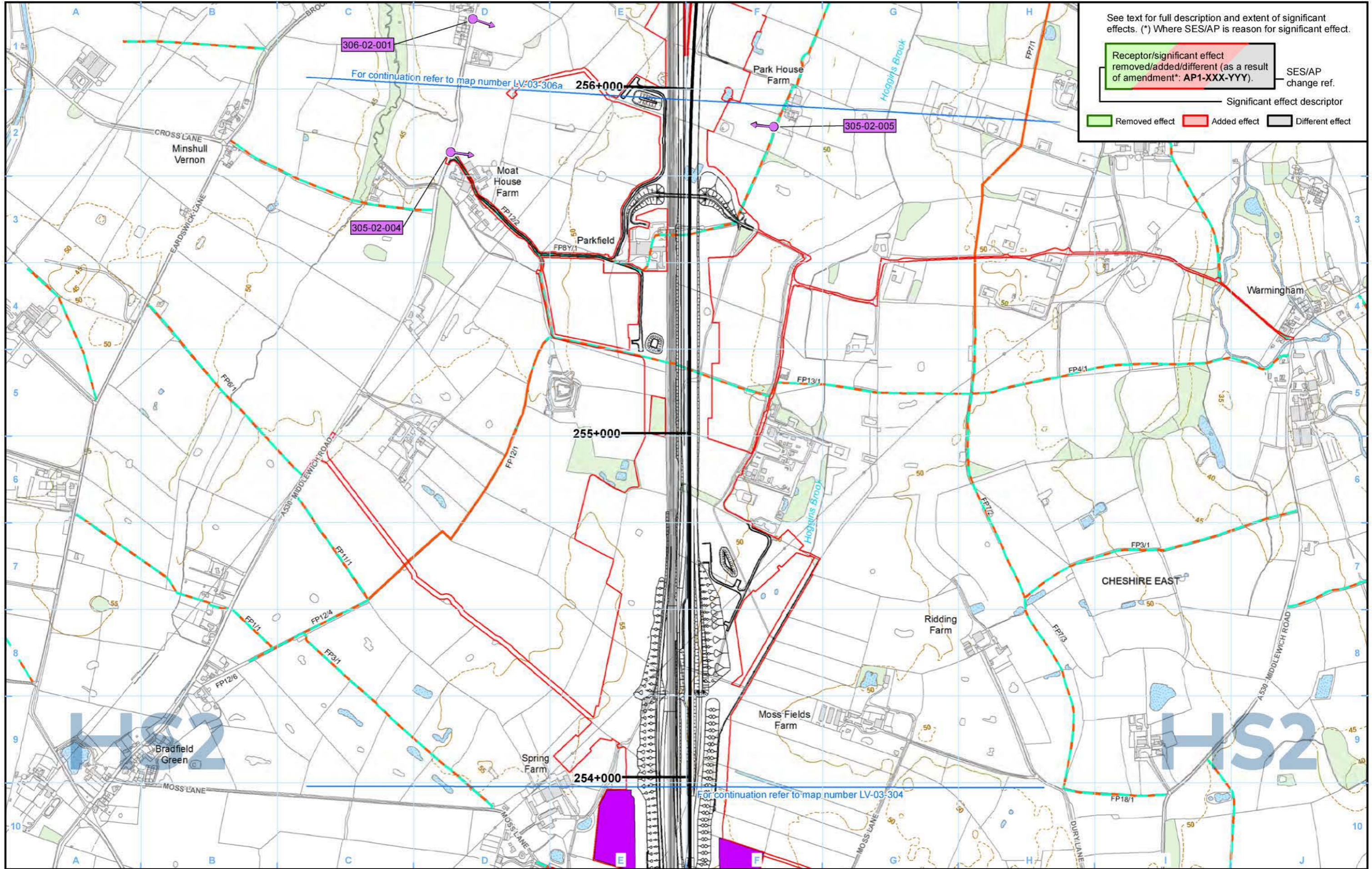
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Scale at A3: 1:10,000

Date: 03/08/21



See text for full description and extent of significant effects. (*) Where SES/AP is reason for significant effect.

Receptor/significant effect removed/added/different (as a result of amendment*: AP1-XXX-YYY). — SES/AP change ref.

Significant effect descriptor

Removed effect Added effect Different effect

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Public Rights of Way (PRow)
- 5m contours
- Water body
- Existing woodland and tree belts
- Construction compounds

- Significantly affected viewpoint
- Significantly affected photomontage
- Significantly affected viewpoint or photomontage number

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-03-305

Map Name: Construction Phase Significantly Affected Viewpoints SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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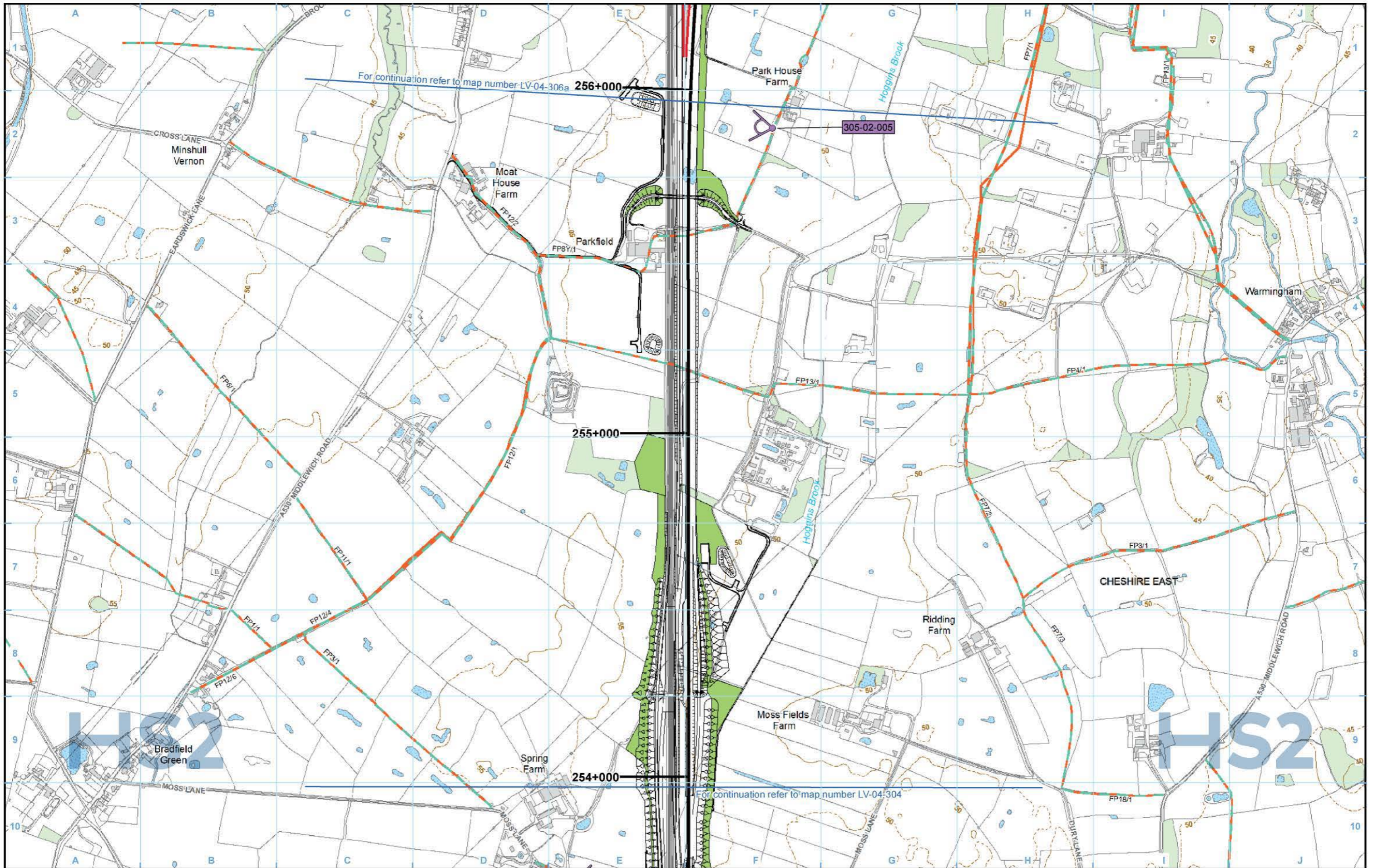
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Doc Number: 2PT24-MWJ-EV-MAP-M000-000084-P01

Date: 22/04/22

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Metres



Legend

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

Map Number: LV-04-305

Map Name: Operational Phase Significantly Affected Viewpoints

Community Area MA01: Hough to Walley's Green

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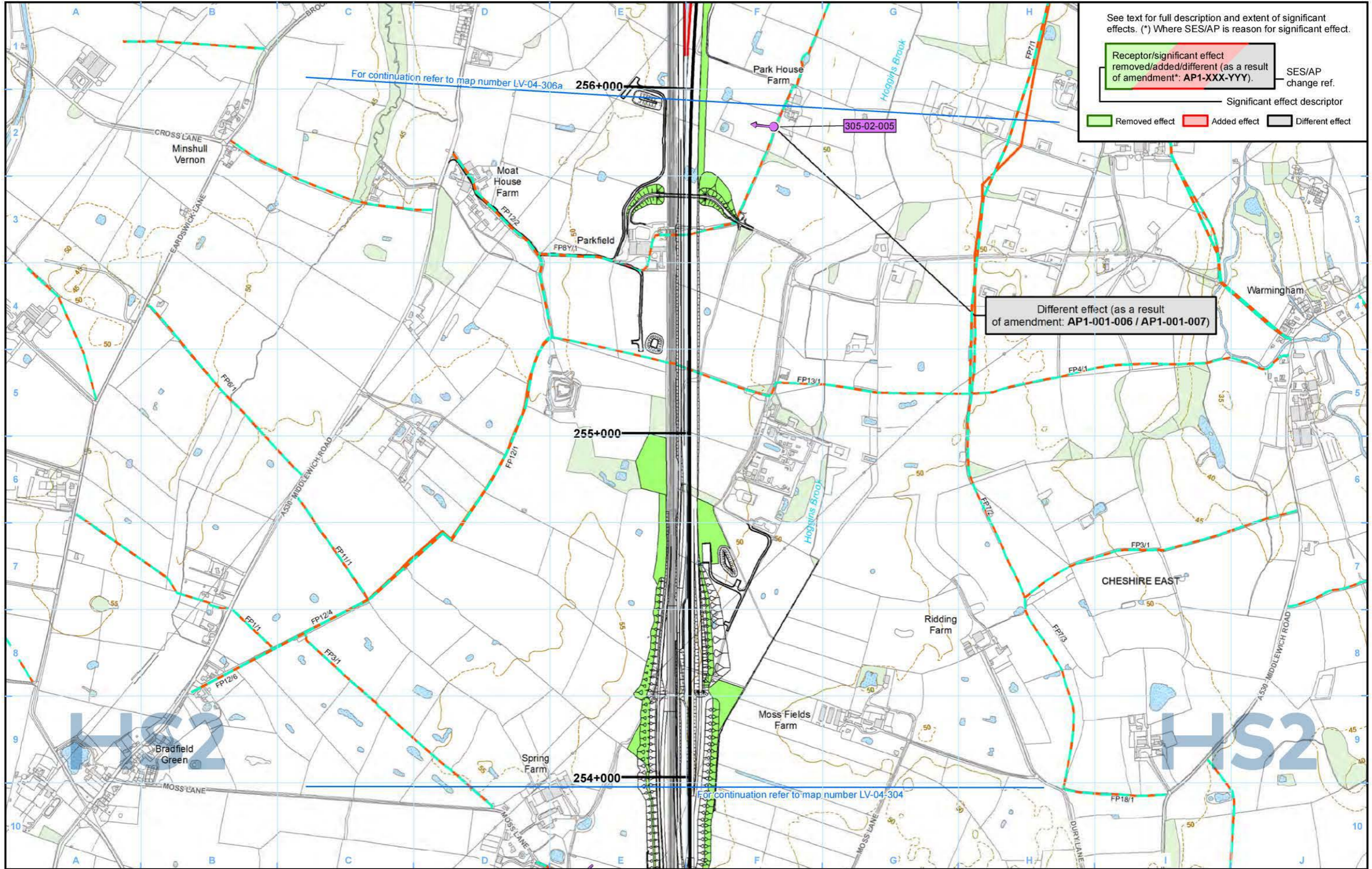
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Scale at A3: 1:10,000

Date: 11/08/21



See text for full description and extent of significant effects. (*) Where SES/AP is reason for significant effect.

Receptor/significant effect removed/added/different (as a result of amendment*: AP1-XXX-YYY).

SES/AP change ref.

Significant effect descriptor

Removed effect Added effect Different effect

Different effect (as a result of amendment: AP1-001-006 / AP1-001-007)

Legend

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

- Public Rights of Way (PRoW)
- 5m contours
- Water body
- Existing woodland and tree belts
- Proposed tree planting

- Significantly affected viewpoint
- Significantly affected photomontage
- Significantly affected viewpoint or photomontage number

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-04-305

Map Name: Operational Phase Significantly Affected Viewpoints SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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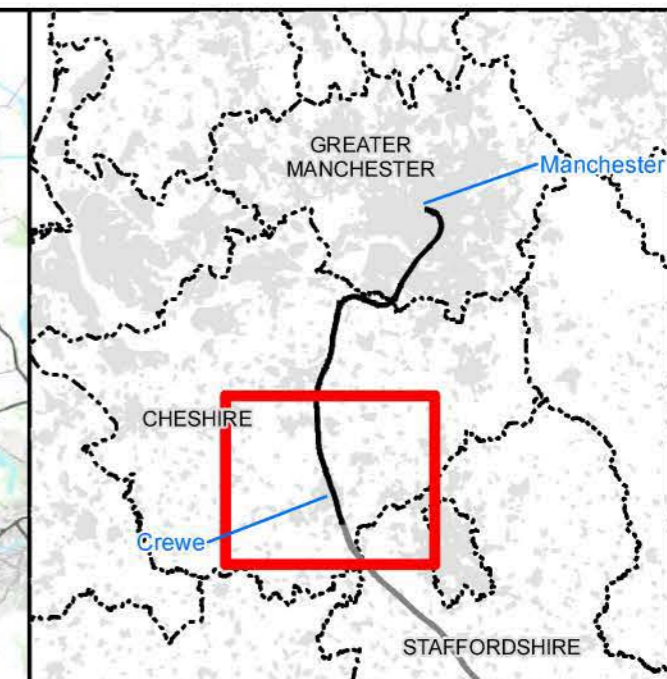
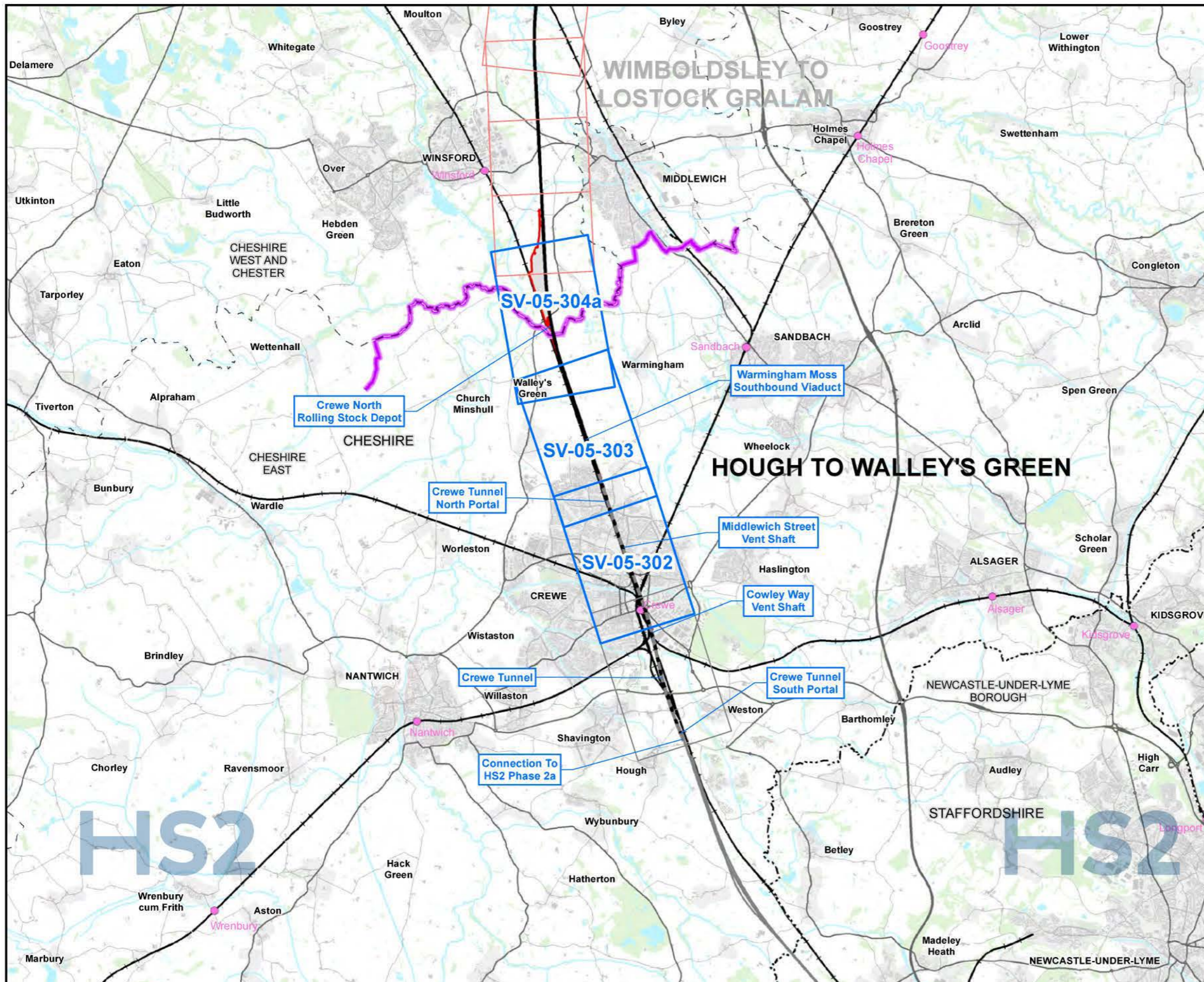
Metres

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High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement

SV-05 – Operational Noise 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 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-08 and SV-09 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.

The design of the Proposed Scheme will be informed through stakeholder engagement and further engineering and environmental studies.

A more detailed explanation of each legend item included on the figures and on the separate legend page 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 area boundary
	Existing railway station
	County boundary
	District/Borough boundary
	Map sheets included in this community area
	Map sheets included in this community area with no amendment
	Map sheets not included in this community area

Map Number	SV-05-INDEX-MA01
Map Name	Index Map of: Operational Airborne Noise and Vibration Impacts and Likely Significant Effects SES1 and AP1 ES Community Area MA01: Hough to Walley's Green

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Doc Number: 2PT24-MWJ-EV-MAP-M000-002130-P01
Date: 19/04/22

HS2 (rail only) noise level $L_{p,Aeq,T}$		Potential noise effect ^{1, 2}	
Night-time $L_{p,Aeq,T}$ (T=23:00 to 07:00)	Daytime $L_{p,Aeq,T}$ (T=07:00 to 23:00)	Residential	Non-residential & quiet areas
> 55 dB	> 65 dB	Likely significant effect on dwellings indicated by ○, * or X avoided by noise insulation	Effect dependent on receptor and baseline. For further details see Volume 5, Appendix SV-003-00000. Likely significant effect indicated by MA0X-O-N# ²
40 to 55 dB	50 to 65 dB	Effect dependent on noise level change and significance criteria. Likely significant effects on groups of dwellings and any shared community open areas indicated by MA0X-O-C# ²	
< 40 dB	< 50 dB	Generally no adverse effect expected ¹	

Operational airborne noise impacts at residential buildings¹

- Major adverse
- Moderate adverse
- Minor adverse
- Negligible
- Beneficial

- Potential additional noise insulation (triggered by maximum noise levels at night)¹
- * Potential additional noise insulation (triggered by WHO Night Noise Guidelines Interim Target)¹
- X Potential noise insulation (triggered by Noise Insulation Regulations 1996)¹
- L_{pAFmax} exceeds 60dB façade
HS2 train only L_{pAFmax} +2.5dB façade correction

Ground-borne noise or vibration impact at residential buildings

See text for full description and extent of likely significant effect. (*Where SES/AP is reason for likely significant effect)

Likely significant effect removed/added/different (as a result of amendment*: AP1-XXX-YYY). SES/AP change ref.

Significant effect descriptor

Removed effect
 Added effect
 Different effect

¹ For further information see Volume 5 Appendix SV-001-00000

² For further details of the SES/AP1 ES assessment see Volume 5 Appendix SV-003-00000

Map Number: SV-05 - Legend

Map Name: Operational Airborne Noise and Vibration Impacts and Likely Significant Effects SES1 and AP1 ES

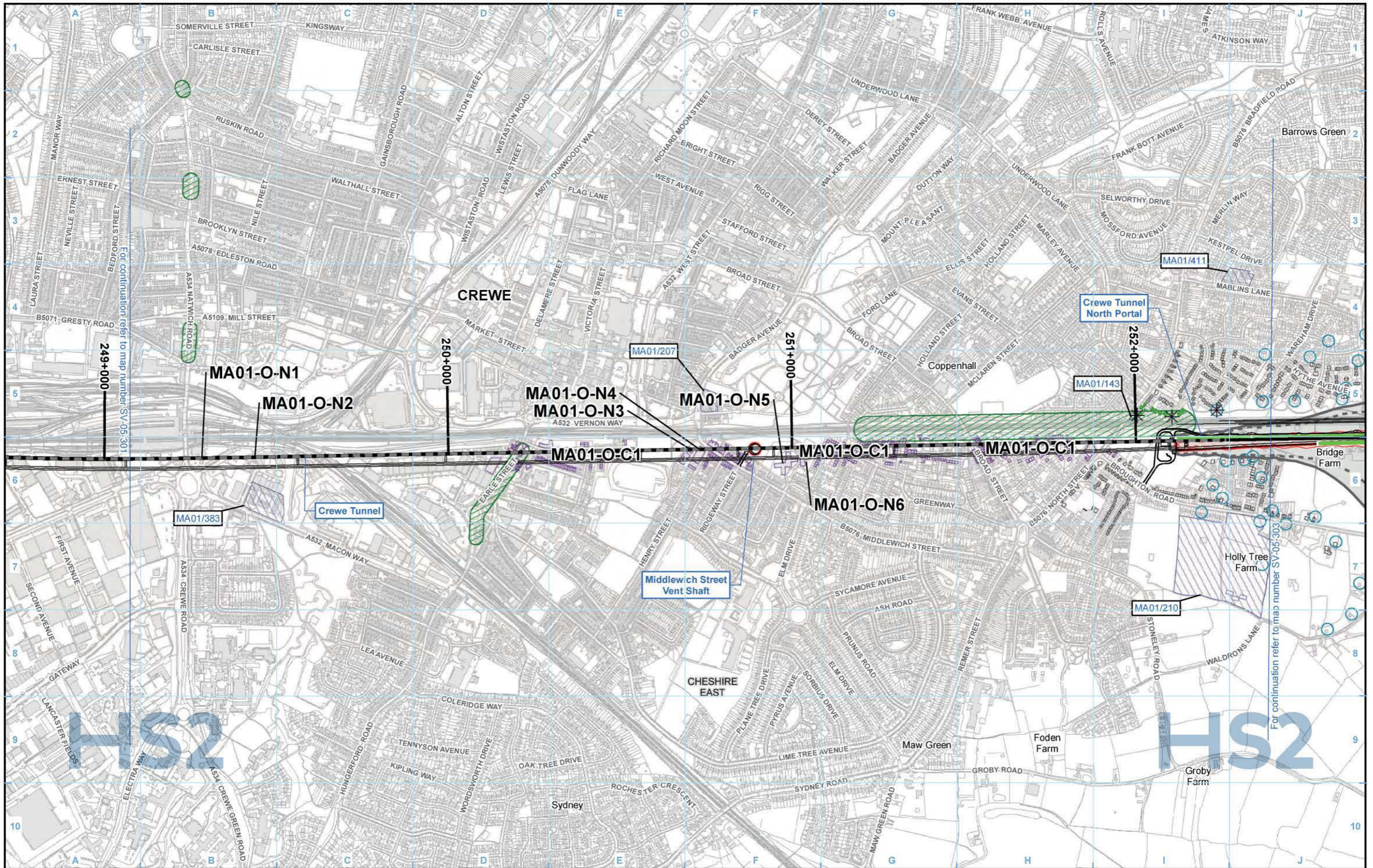


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Doc Number: -

Date:



Legend - General features

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

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Legend - Noise related features

- Envisaged mitigation to avoid / reduce significant noise effects: Landscaping and/or fence barriers (labelled with total noise barrier height above rail)
- Engineering e.g. cuttings (green tunnels separately marked)
- Envisaged features further reducing noise effects:**
 - Other environmental e.g. landscaping
 - Engineering e.g. cuttings

- Noise Important Areas defined in national noise action plans (Defra 2014)
- Committed developments - SV Only

For SNV effects symbology please refer to SV-05 - Legend page

Map Number: SV-05-302

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

Community Area MA01: Hough to Walley's Green

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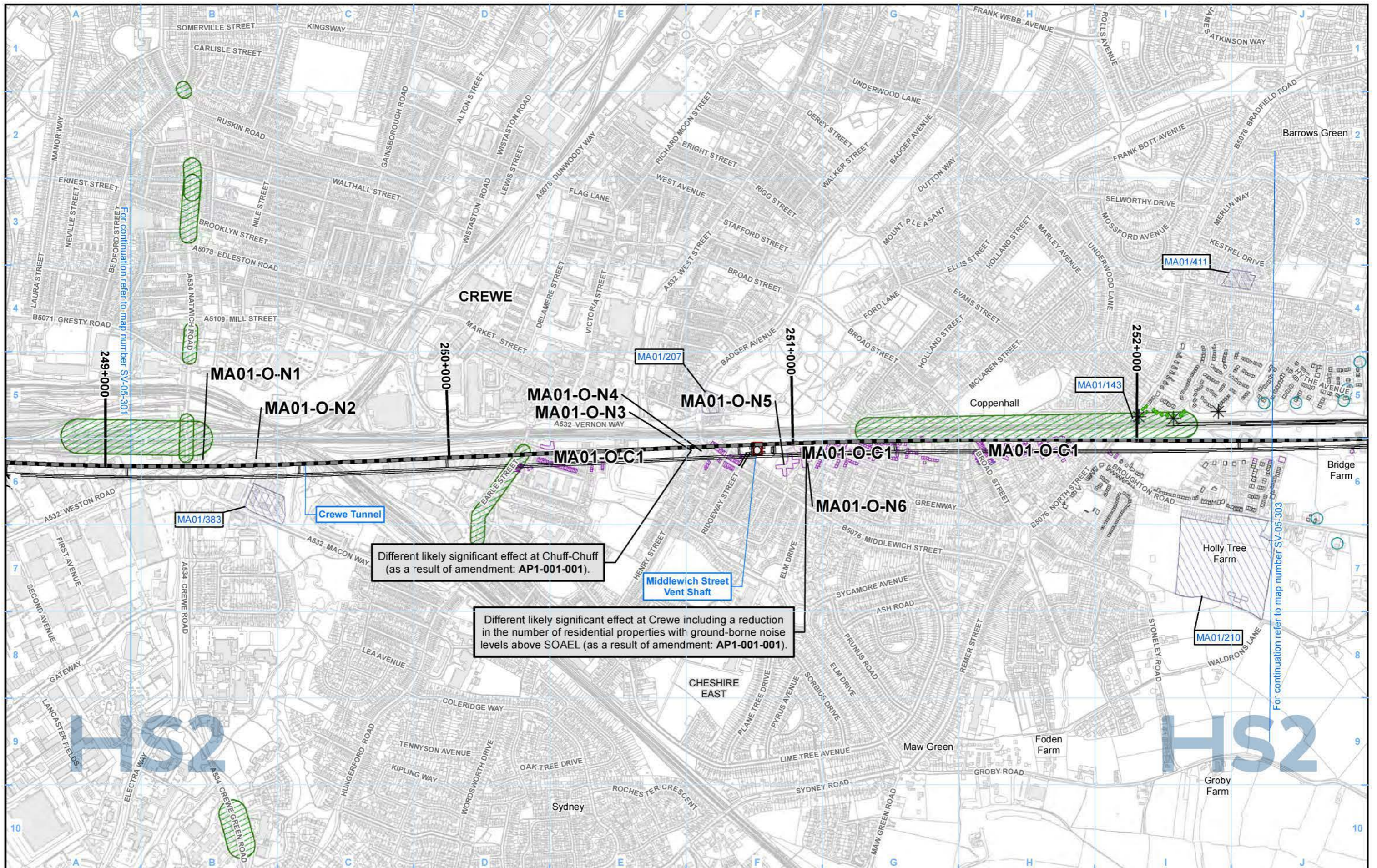
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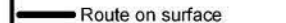
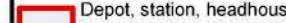
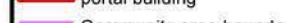
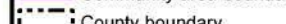

Date: 10/08/21




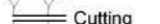
For continuation refer to map number SV-05-301

For continuation refer to map number SV-05-303

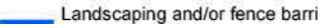
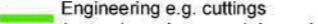




Legend - General features

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

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

Legend - Noise related features

- Envisaged mitigation to avoid / reduce significant noise effects:**
-  Landscaping and/or fence barriers (labelled with total noise barrier height above rail)
 -  Engineering e.g. cuttings (green tunnels separately marked)
- Envisaged features further reducing noise effects:**
-  Other environmental e.g. landscaping
 -  Engineering e.g. cuttings

-  Noise Important Areas defined in national noise action plans (Defra 2014)
-  Committed developments - SV Only

For SNV effects symbology please refer to SV-05 - Legend page

Map Number: SV-05-302

Map Name: Operational Airborne Noise and Vibration Impacts and Likely Significant Effects SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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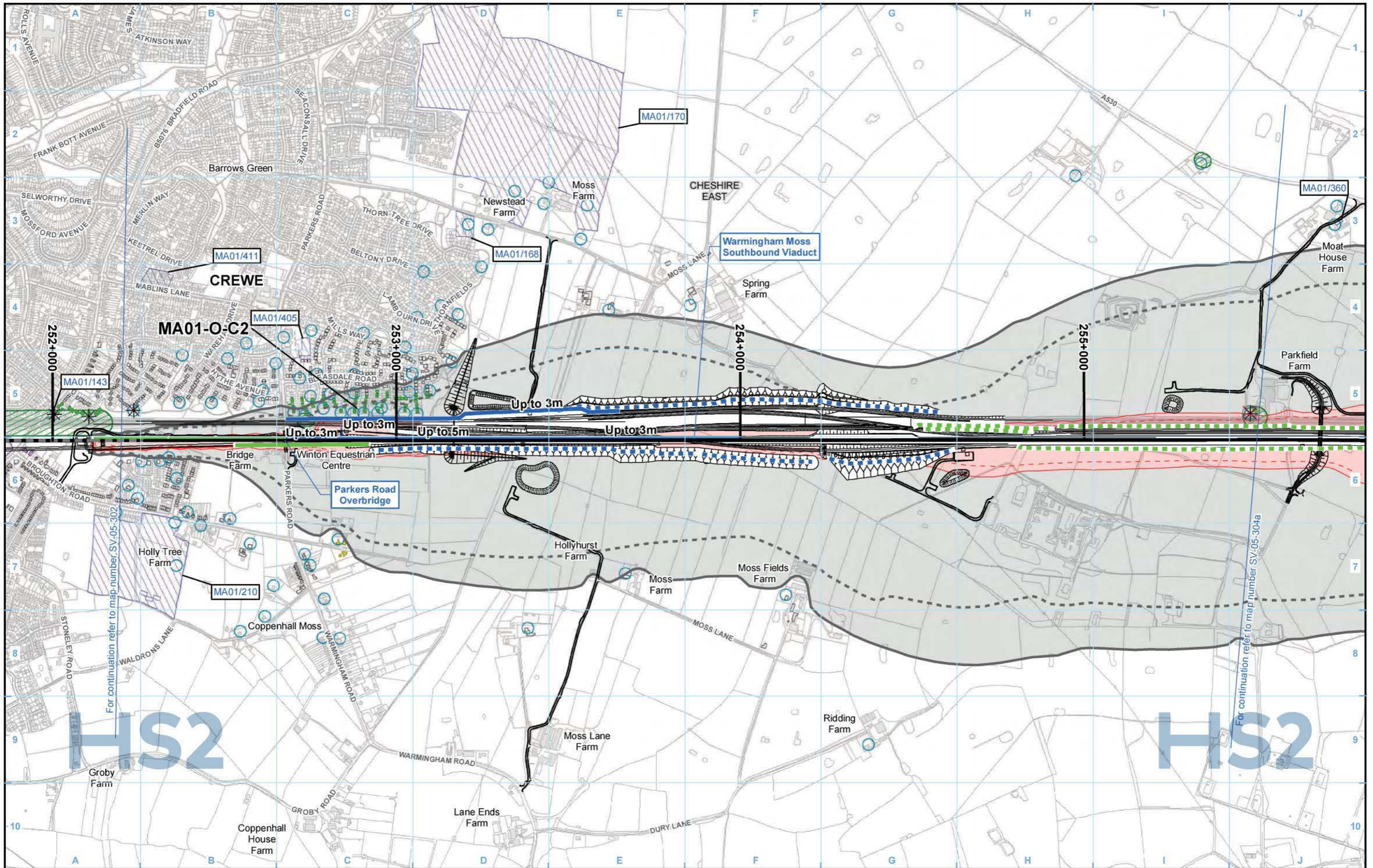
Date: 16/05/22

Scale at A3: 1:10,000

Metres

For continuation refer to map number SV-05-303

For continuation refer to map number SV-05-301



- Legend - General features**
- Route in bored tunnel
 - Route in green tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary

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

- Legend - Noise related features**
- Envisaged mitigation to avoid / reduce significant noise effects:
 - Landscaping and/or fence barriers (labelled with total noise barrier height above rail)
 - Engineering e.g. cuttings (green tunnels separately marked)
 - Envisaged features further reducing noise effects:
 - Other environmental e.g. landscaping
 - Engineering e.g. cuttings

- Noise Important Areas defined in national noise action plans (Defra 2014)
 - Committed developments - SV Only
- For SNV effects symbology please refer to SV-05 - Legend page

Map Number: SV-05-303

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

Community Area MA01: Hough to Walley's Green

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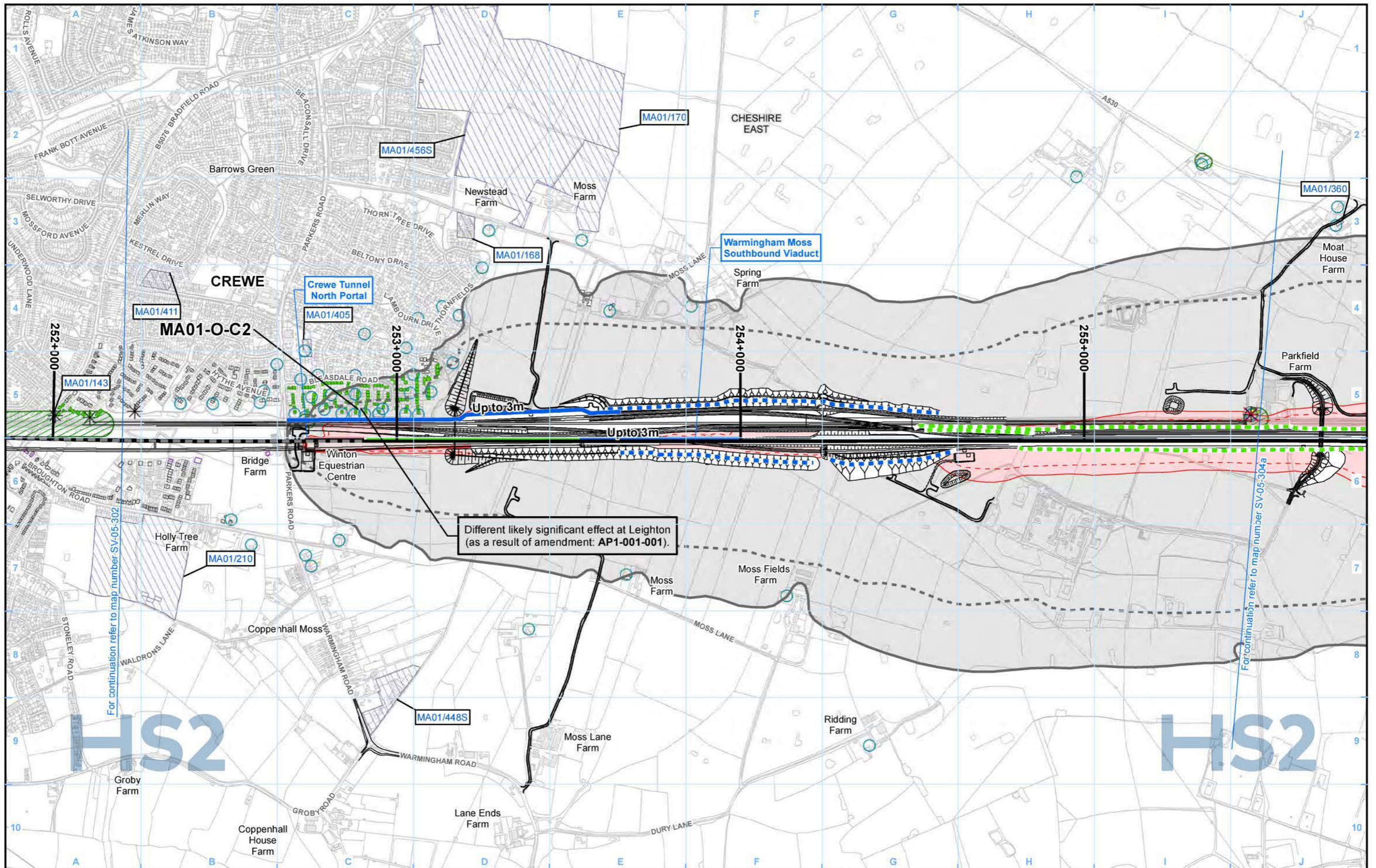
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Scale at A3: 1:10,000

Date: 10/08/21



Legend - General features

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

Engineering earthworks:

	Embankment
	Cutting

Non engineering earthworks:

	Embankment
	Cutting

Legend - Noise related features

	Envisaged mitigation to avoid / reduce significant noise effects: Landscaping and/or fence barriers (labelled with total noise barrier height above rail)
	Engineering e.g. cuttings (green tunnels separately marked)
	Envisaged features further reducing noise effects: Other environmental e.g. landscaping
	Engineering e.g. cuttings

Noise Important Areas defined in national noise action plans (Defra 2014)

	Noise Important Areas defined in national noise action plans (Defra 2014)
	Committed developments - SV Only

For SNV effects symbology please refer to SV-05 - Legend page

Map Number	SV-05-303
Map Name	Operational Airborne Noise and Vibration Impacts and Likely Significant Effects SES1 and AP1 ES
	Community Area MA01: Hough to Walley's Green

HS2

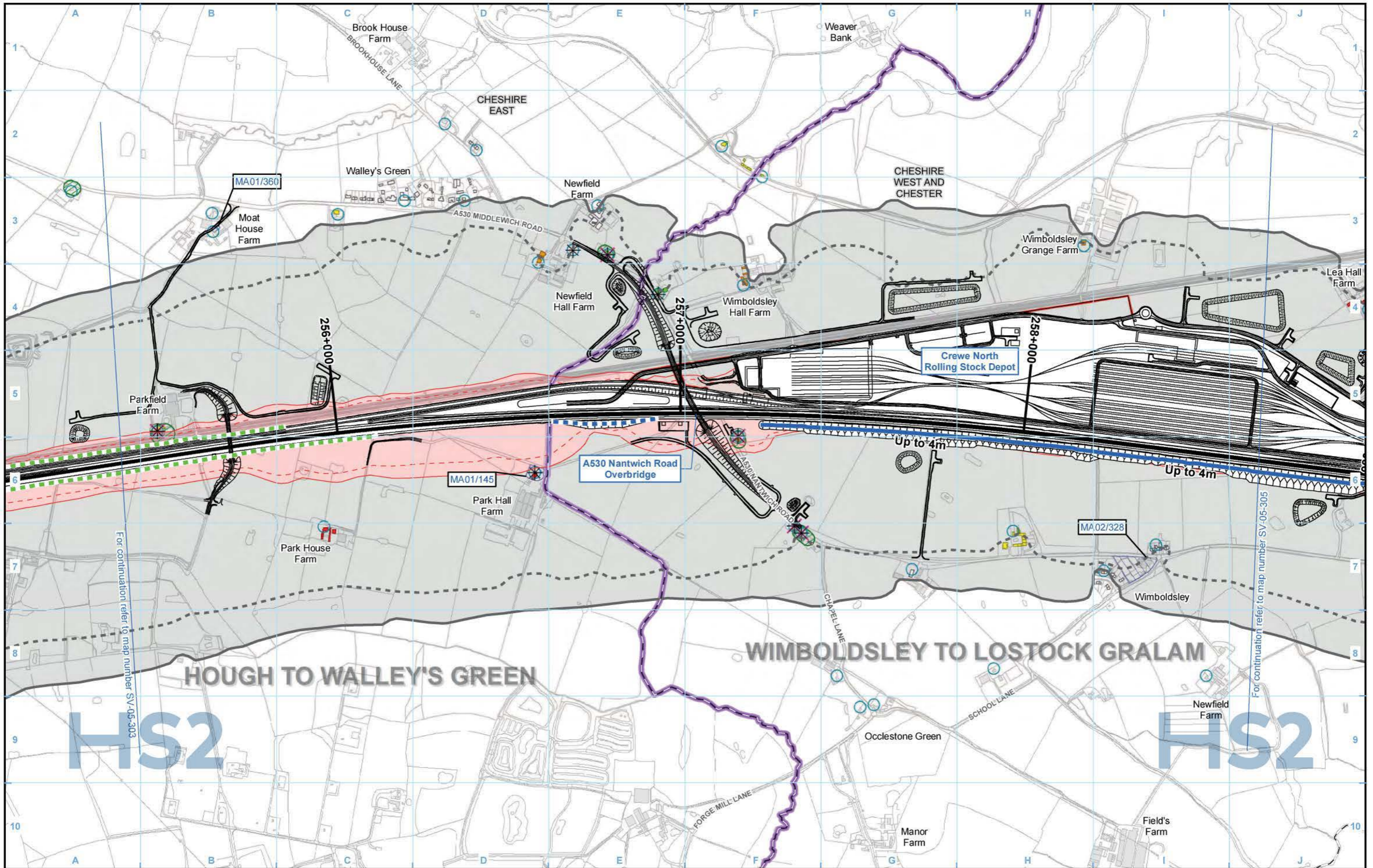
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002096-P01

Date: 19/04/22

Scale at A3: 1:10,000



Legend - General features

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

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

Legend - Noise related features

- Envisaged mitigation to avoid / reduce significant noise effects:**
- Landscaping and/or fence barriers (labelled with total noise barrier height above rail)
 - Engineering e.g. cuttings (green tunnels separately marked)
- Envisaged features further reducing noise effects:**
- Other environmental e.g. landscaping
 - Engineering e.g. cuttings

- Noise Important Areas defined in national noise action plans (Defra 2014)
- Committed developments - SV Only

For SNV effects symbology please refer to SV-05 - Legend page

Map Number: SV-05-304a

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

Community Area MA01: Hough to Walley's Green

HS2

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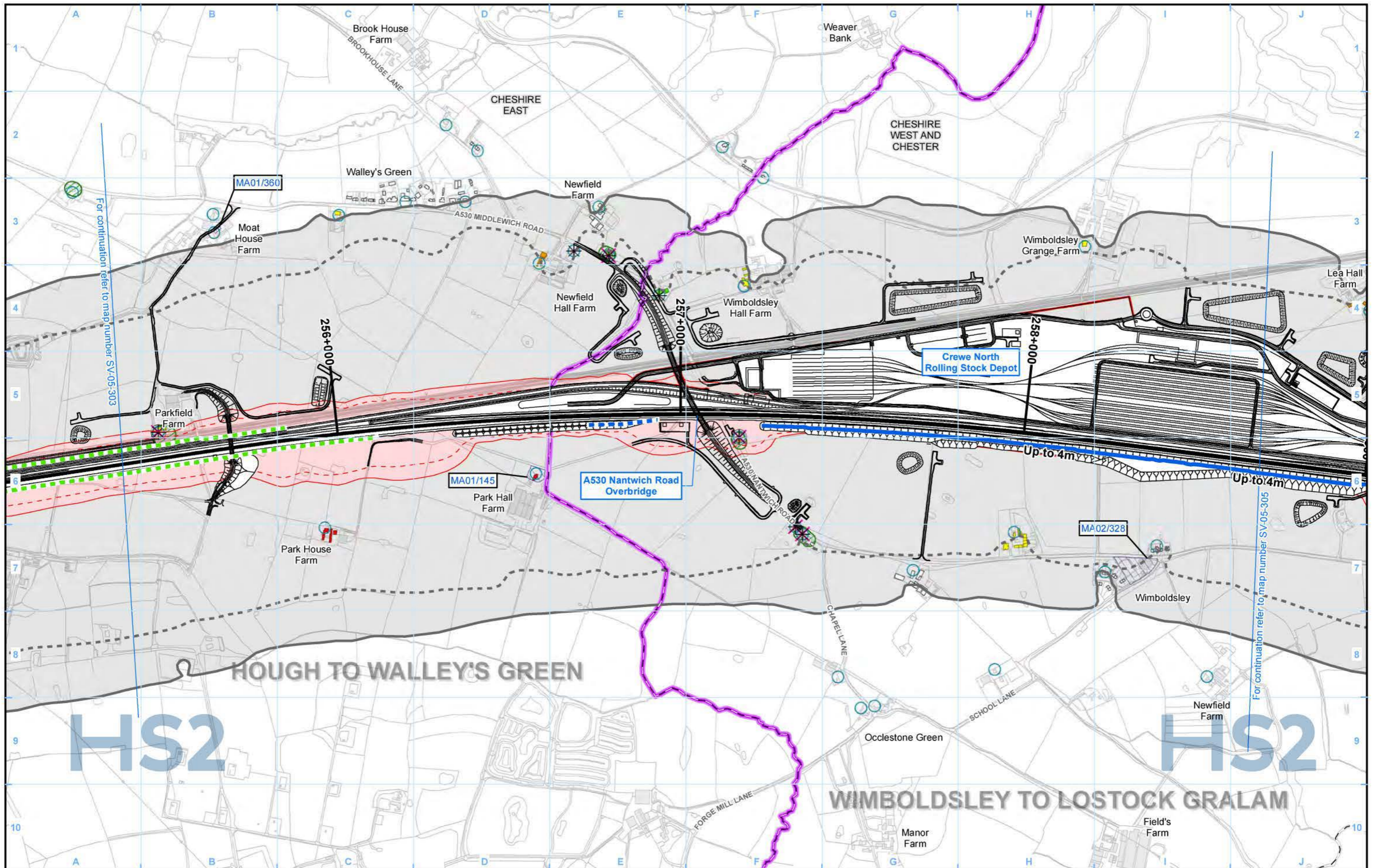
Doc Number: 2DE01-MWJ-EV-MAP-M000-002097-P03

Scale at A3: 1:10,000

Date: 10/08/21

For continuation refer to map number SV-05-303

For continuation refer to map number SV-05-305



Legend - General features

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

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

Legend - Noise related features

- Envisaged mitigation to avoid / reduce significant noise effects:**
- Landscaping and/or fence barriers (labelled with total noise barrier height above rail)
 - Engineering e.g. cuttings (green tunnels separately marked)
- Envisaged features further reducing noise effects:**
- Other environmental e.g. landscaping
 - Engineering e.g. cuttings

- Noise Important Areas defined in national noise action plans (Defra 2014)
- Committed developments - SV Only

For SNV effects symbology please refer to SV-05 - Legend page

Map Number: SV-05-304a

Map Name: Operational Airborne Noise and Vibration Impacts and Likely Significant Effects SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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