

Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement

Volume 2: Community Area Map Book

MA03: Pickmere to Agden and Hulseheath



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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.

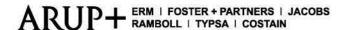
High Speed Two (HS2) Limited Two Snowhill Snow Hill Queensway Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.hs2.org.uk

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





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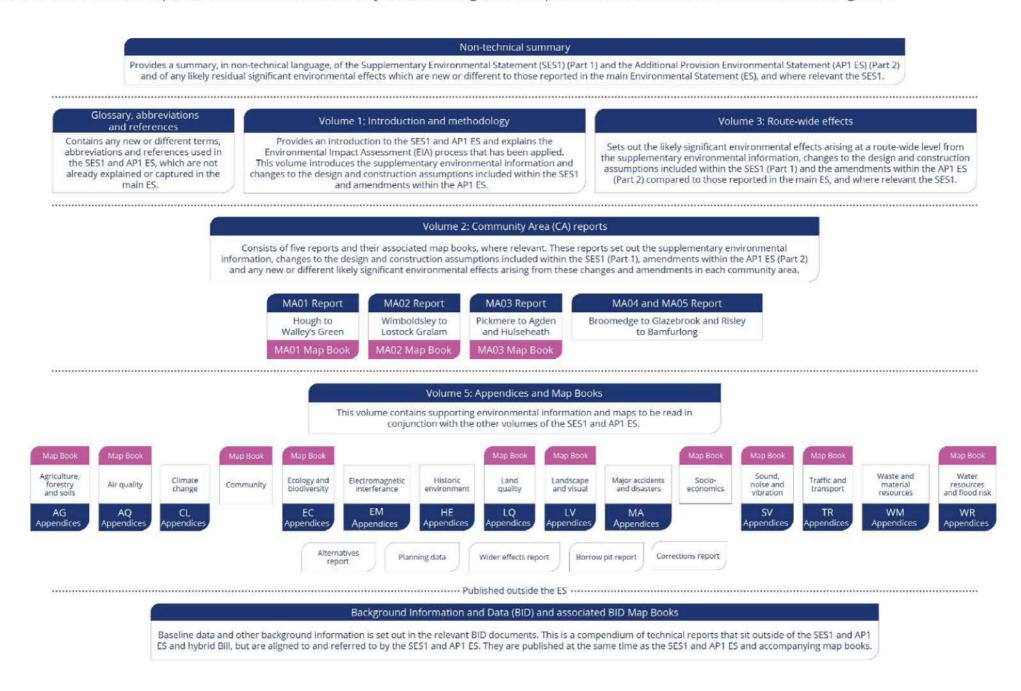
Data dictionary and definitions

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 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)



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
	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		
Existing public right of way	bridleway (used for walking, riding a horse and cycling), a restricted byway (as a	See Public Rights of Way	
	bridleway, but use by non-motorised vehicles also permitted) or a byway that is		
	open to all traffic (include motor vehicles).		
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.		
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.		
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
	The Environmental Noise (England) Regulations 2006 (SI 2006/2238) required		
	Defra, as the Competent Authority, to implement the Environmental Noise		
Appendix a production of the American Company of the A	Directive in England, which requires amongst other things, the adoption of		
Noise Important Areas defined in national	Action Plans, based upon the noise exposure assessment results. The noise	High Speed Two (HS2) Ltd	
noise action plans (Defra 2014)	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.		
Non opsing swips opethorods. Cutting	Cuttings created in the construction of landscape features and mitigation	Uich Crood Two (US2) Ltd	
Non engineering earthworks: Cutting	measures.	High Speed Two (HS2) Ltd	
Non angineering earthworks: Embankment	Embankments created in the construction of landscape features and mitigation	High Spood Two (HS2) Ltd	
Non engineering earthworks: Embankment	measures.	High Speed Two (HS2) Ltd	
	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		
Operational airborne noise impacts at	Scheme did not go ahead with those if it did (details of this process can be found	U. 1.6. 17. (U.S.) (1.1	
residential buildings	in Volume 5: Appendix SV-001-00000). Panel B on SV02/SV-05 contains a key	High Speed Two (HS2) Ltd	
auto training that addition southers. We think that the contraction of	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.		
	This represents dwellings which would potentially be provided with noise		
Potential additional noise insulation (triggered	insulation due maximum sound levels from the Proposed Scheme (further	High Coased Torre (UCO) Ltd	
by maximum sound levels at night)	information regarding assessment criteria can be found in Volume 5 Appendix	High Speed Two (HS2) Ltd	
- WE	SV-001-00000).		
	This represents dwellings which would potentially be provided with noise		
Potential additional noise insulation (triggered	insulation due to noise from the Proposed Scheme exceeding the World Health		
by WHO Night Noise Guidelines Interim Target)	Organization (WHO) night noise guidelines interim target (further information	High Speed Two (HS2) Ltd	
	regarding assessment criteria can be found in Volume 5 Appendix SV-001-		
	00000).		
Detential raise in colletion (triangued by Naise	This represents dwellings which would potentially qualify for noise insulation		
Potential noise insulation (triggered by Noise	under the Noise Insulation (Railways and Other Guided Transport Systems)	High Speed Two (HS2) Ltd	
Insulation Regulations 1996)	Regulations 1996 (further information regarding assessment criteria can be		
Proposed tree planting	found in Volume 5 Appendix SV-001-00000). 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	High Speed Two (HS2) Ltd	
	operation year 15 ZTV.	Ingil speed (Wo (1132) Etd	
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	Represents the proposed route of HS2, split into route in bored tunnel and	High Spood Two (US2) Ltd	
Route in green tunnel	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 prefabricaton 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 Surve Licence Number 100049190. Yea of Publication 2021.
Woodland habitat creation	An area of woodland habitat creation.	High Speed Two (HS2) Ltd	

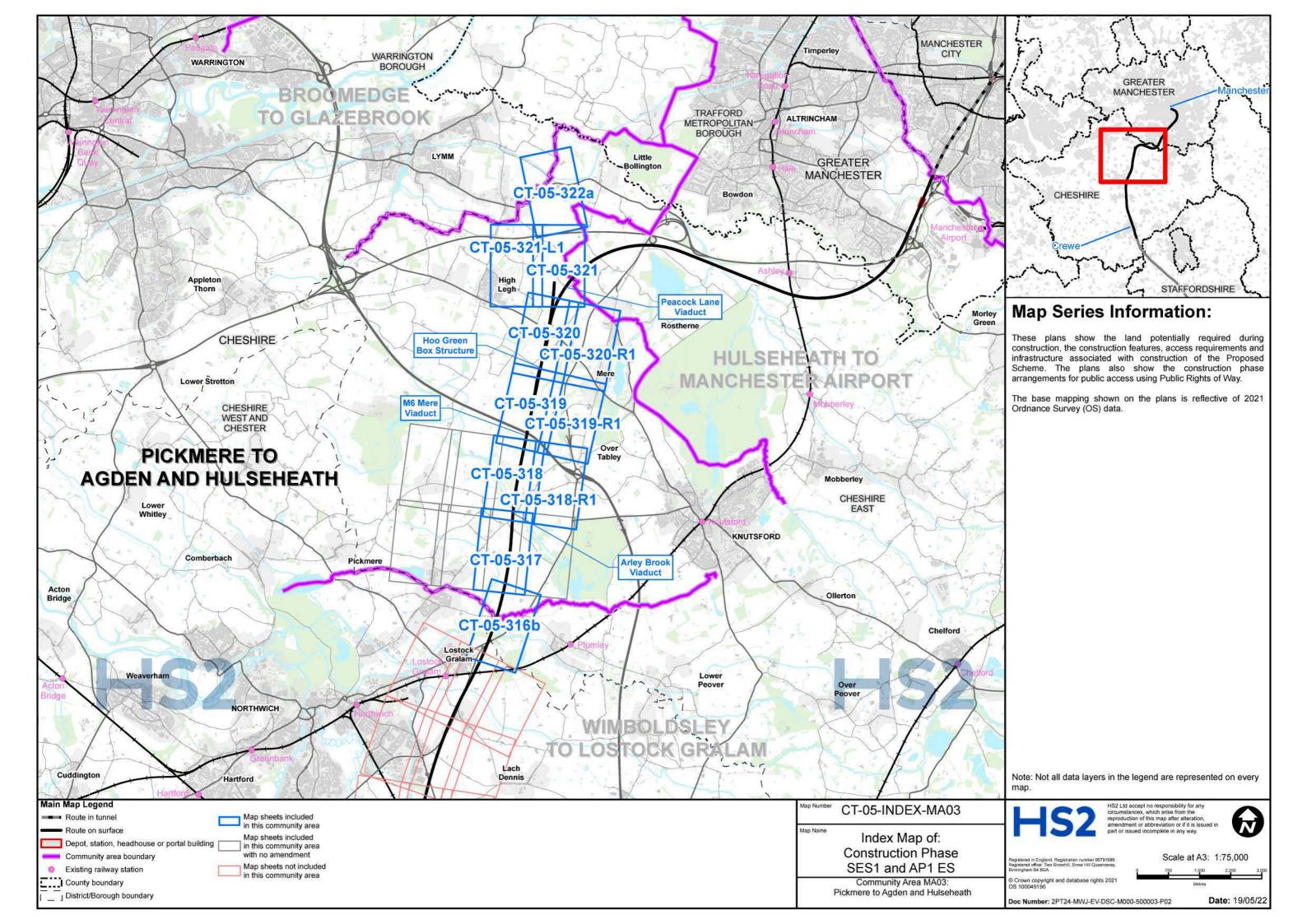
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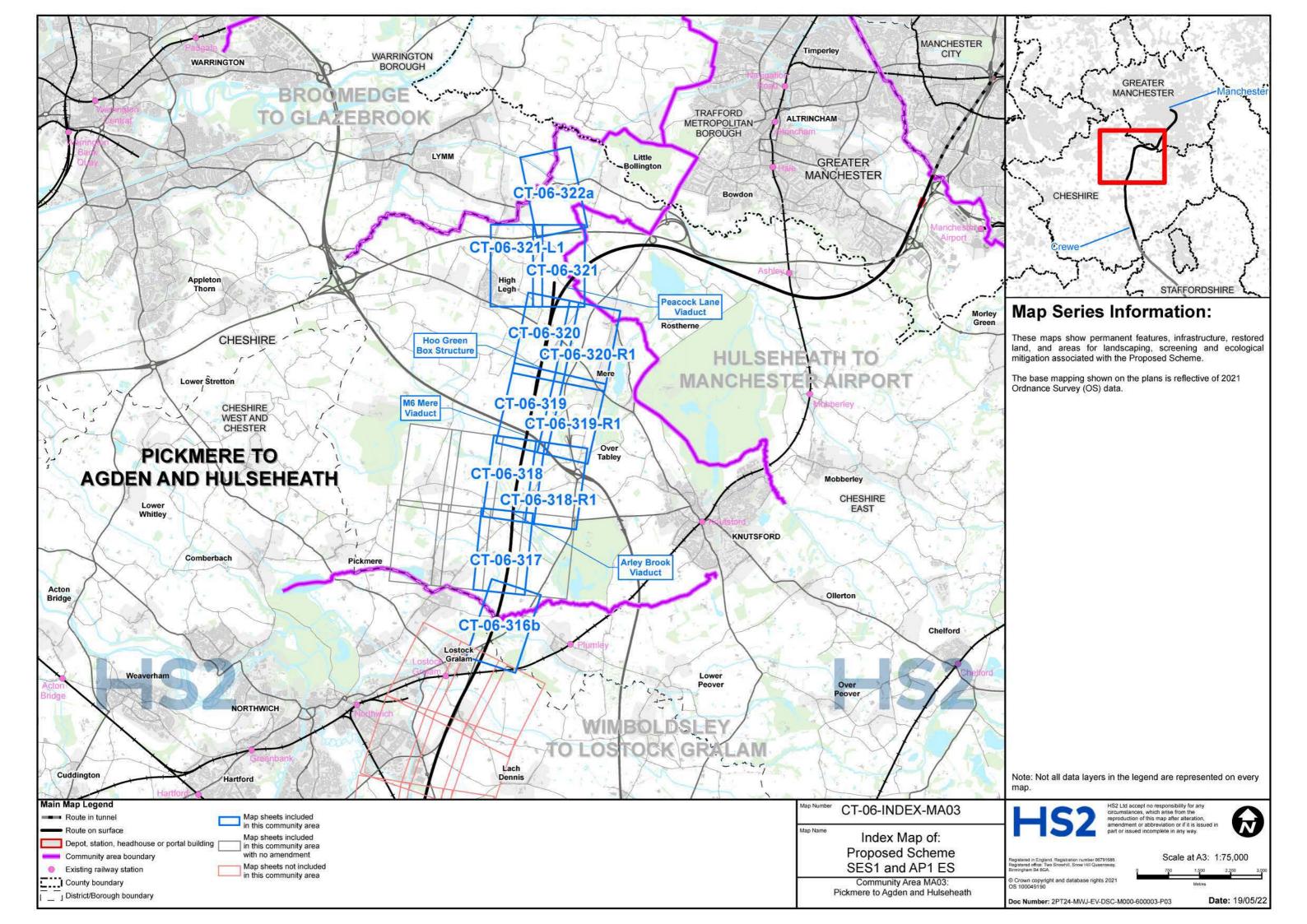


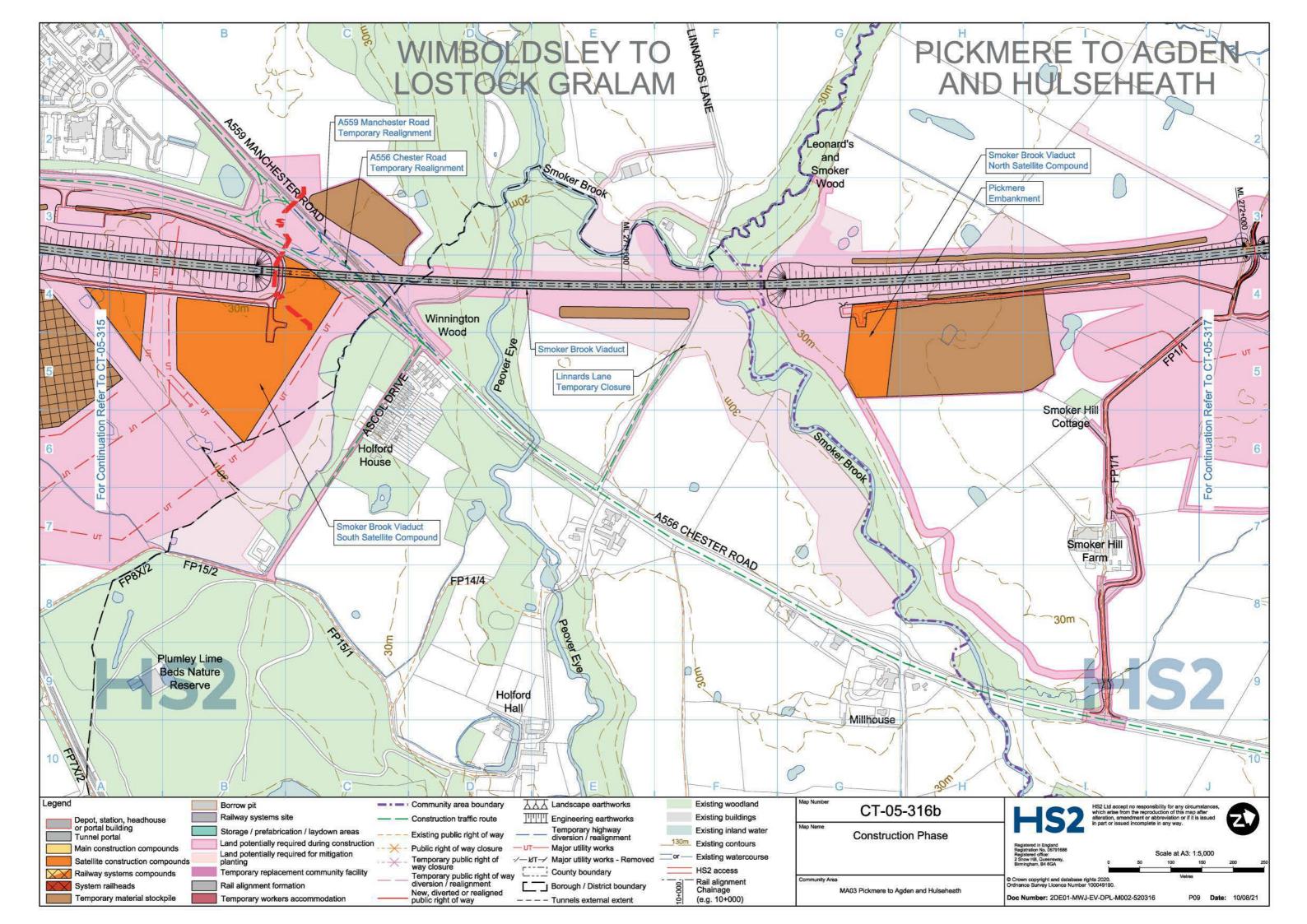
Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement

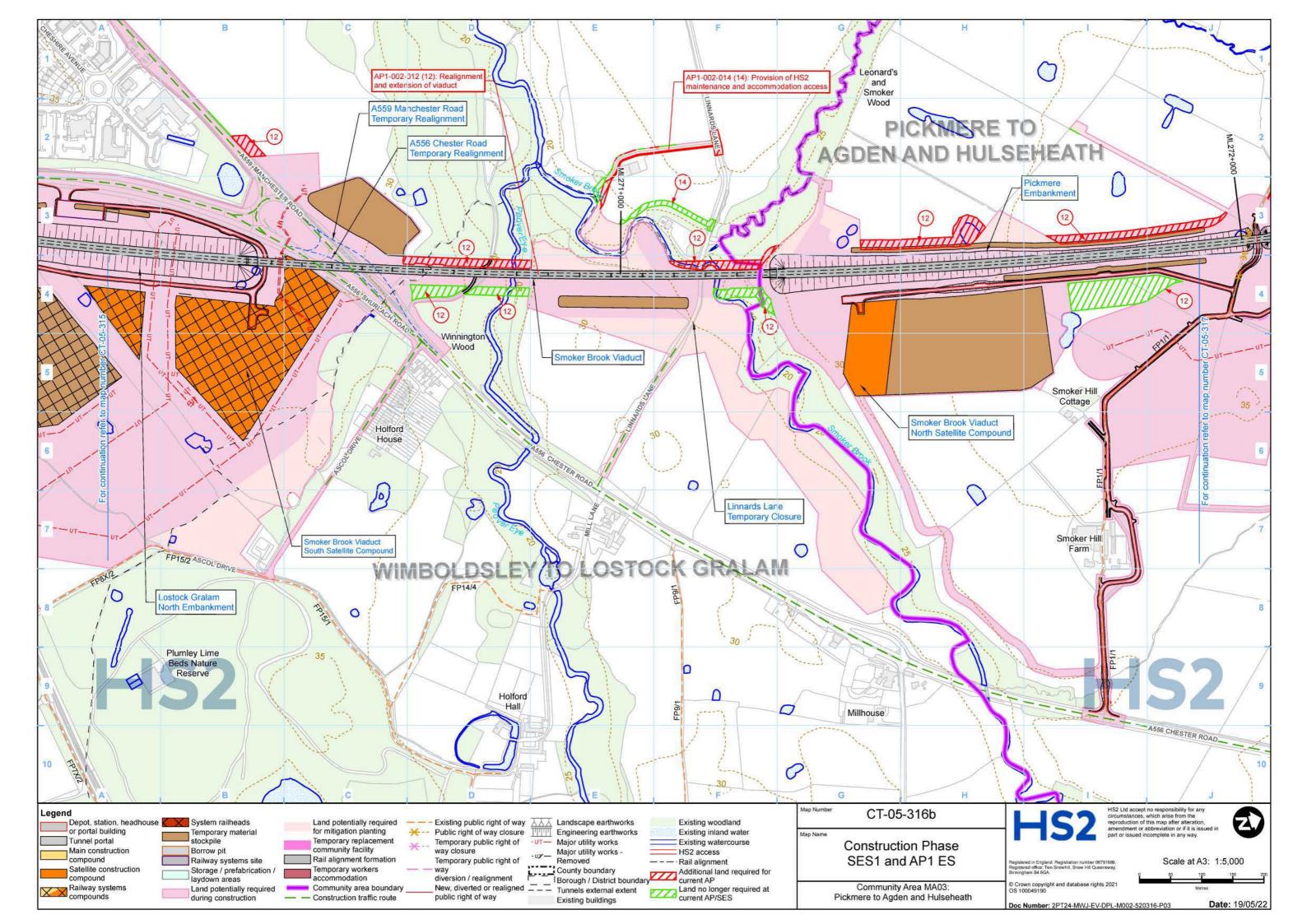
CT-05 – Construction Phase

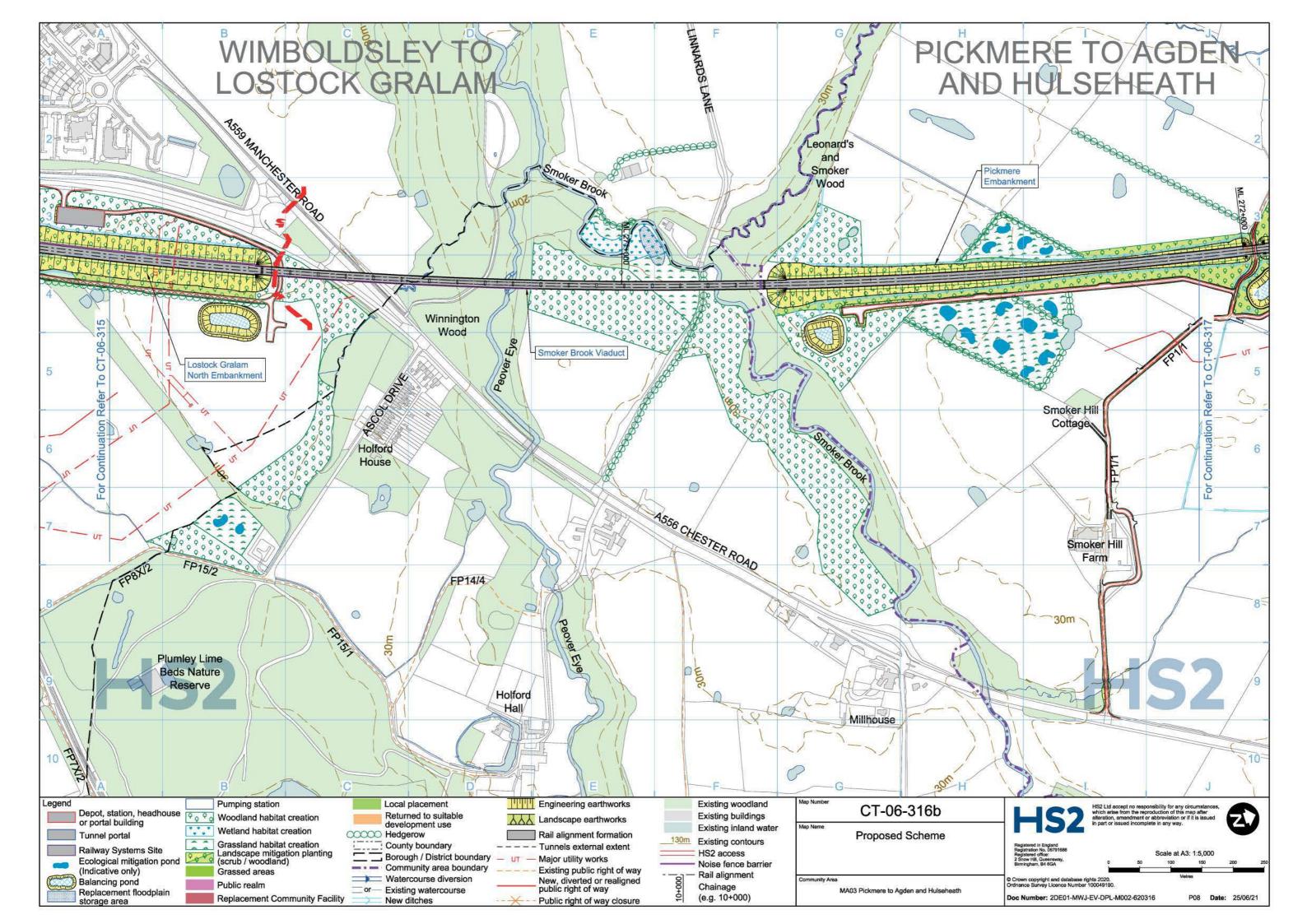
CT-06 – Proposed Scheme

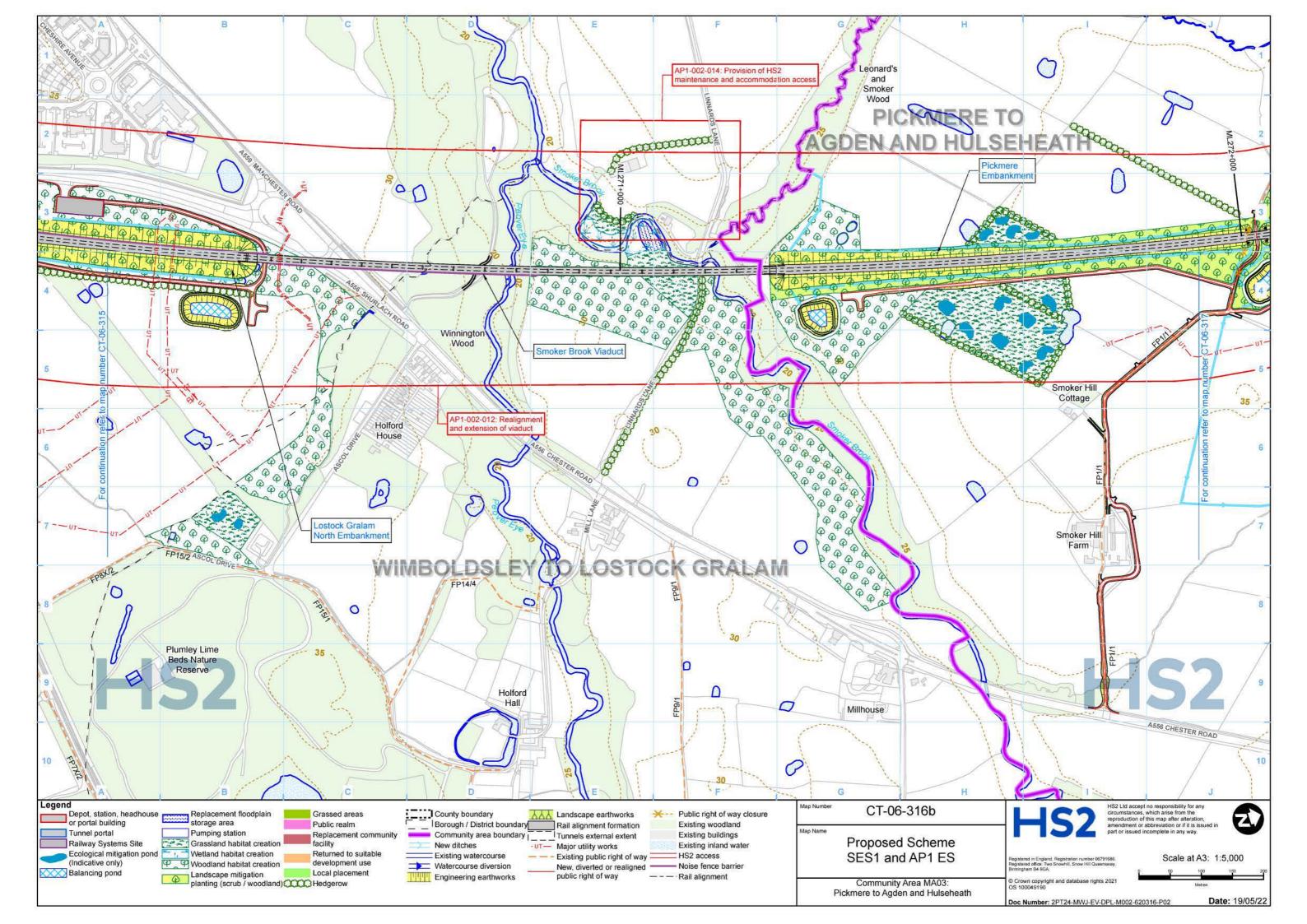


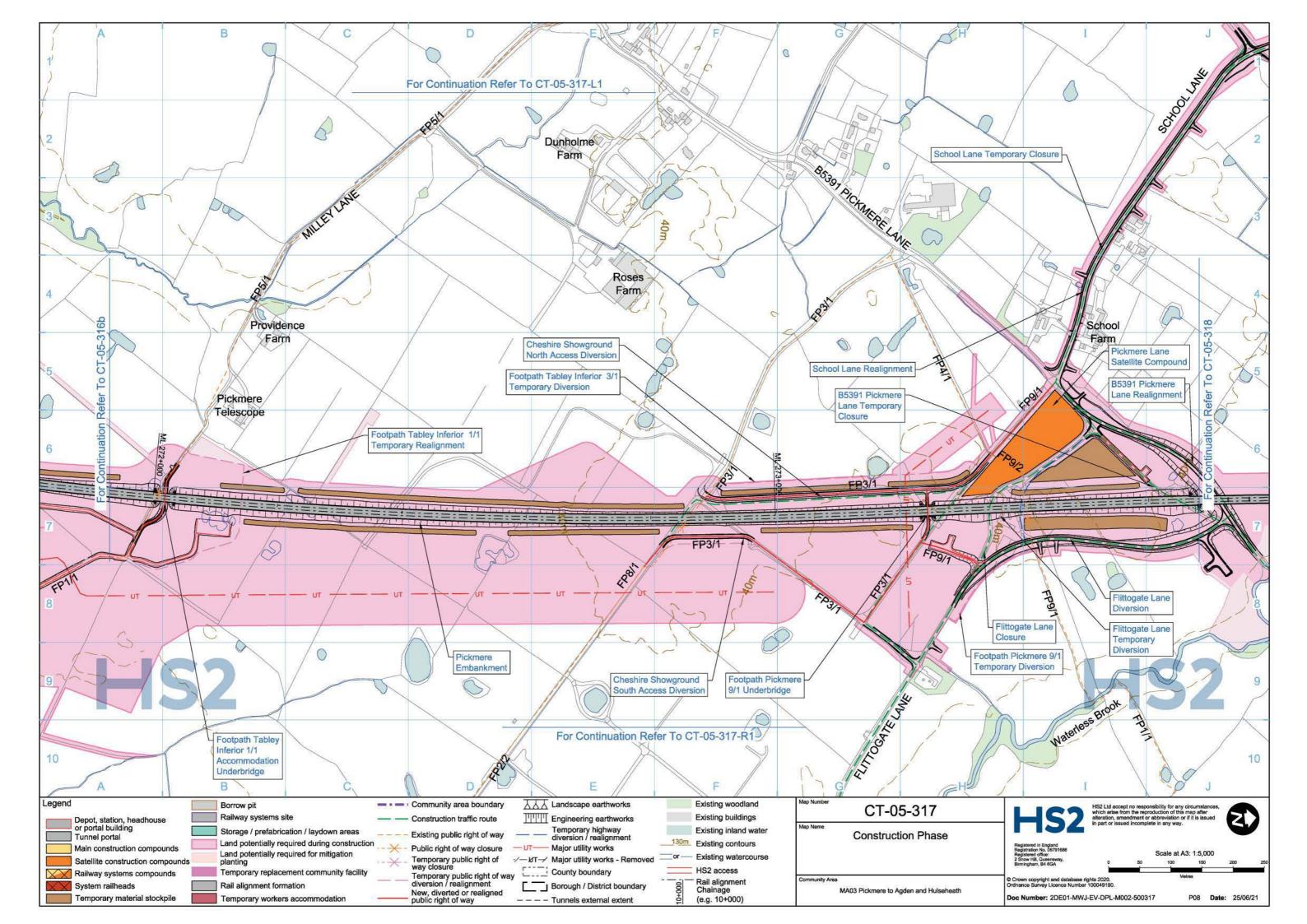


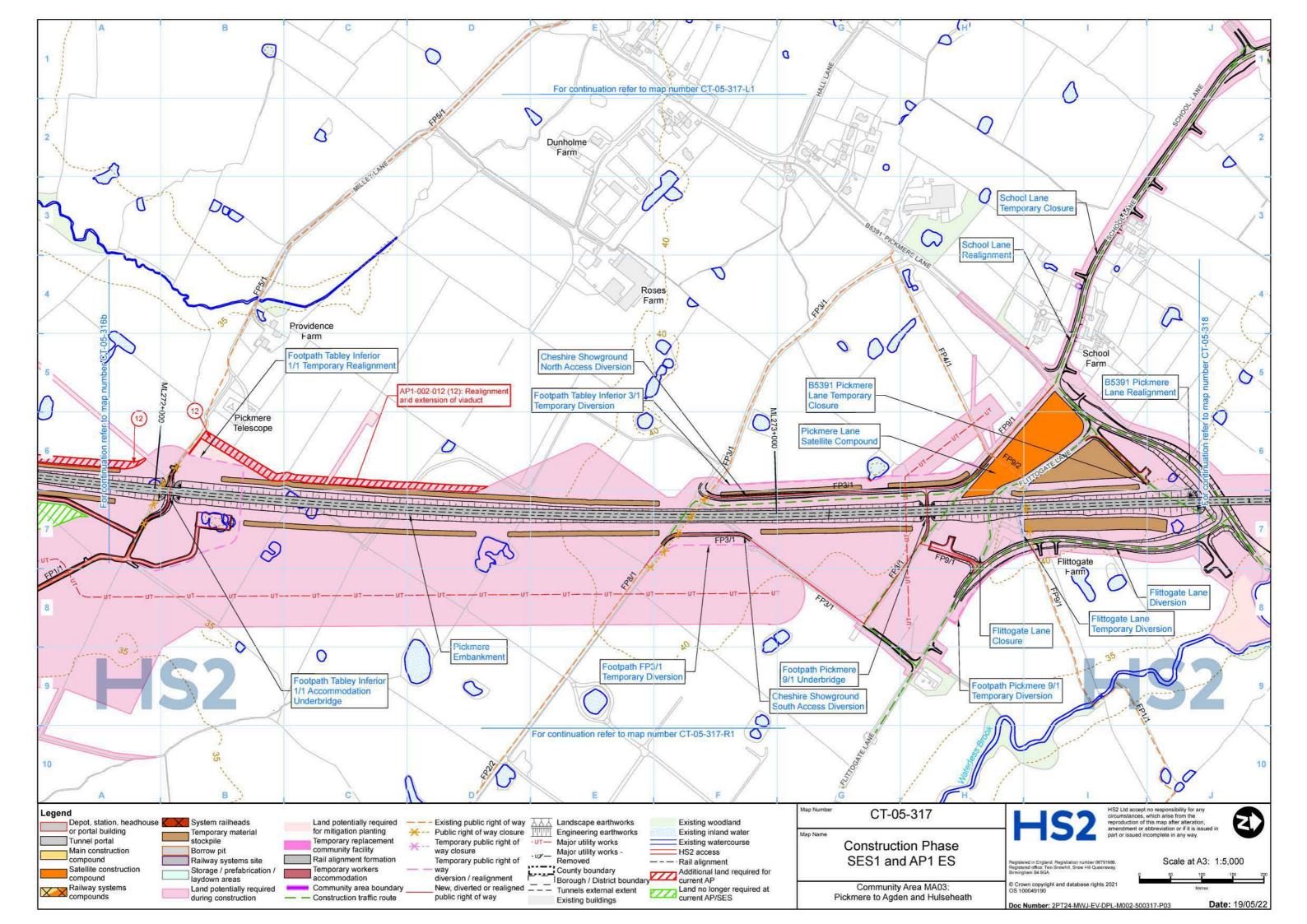


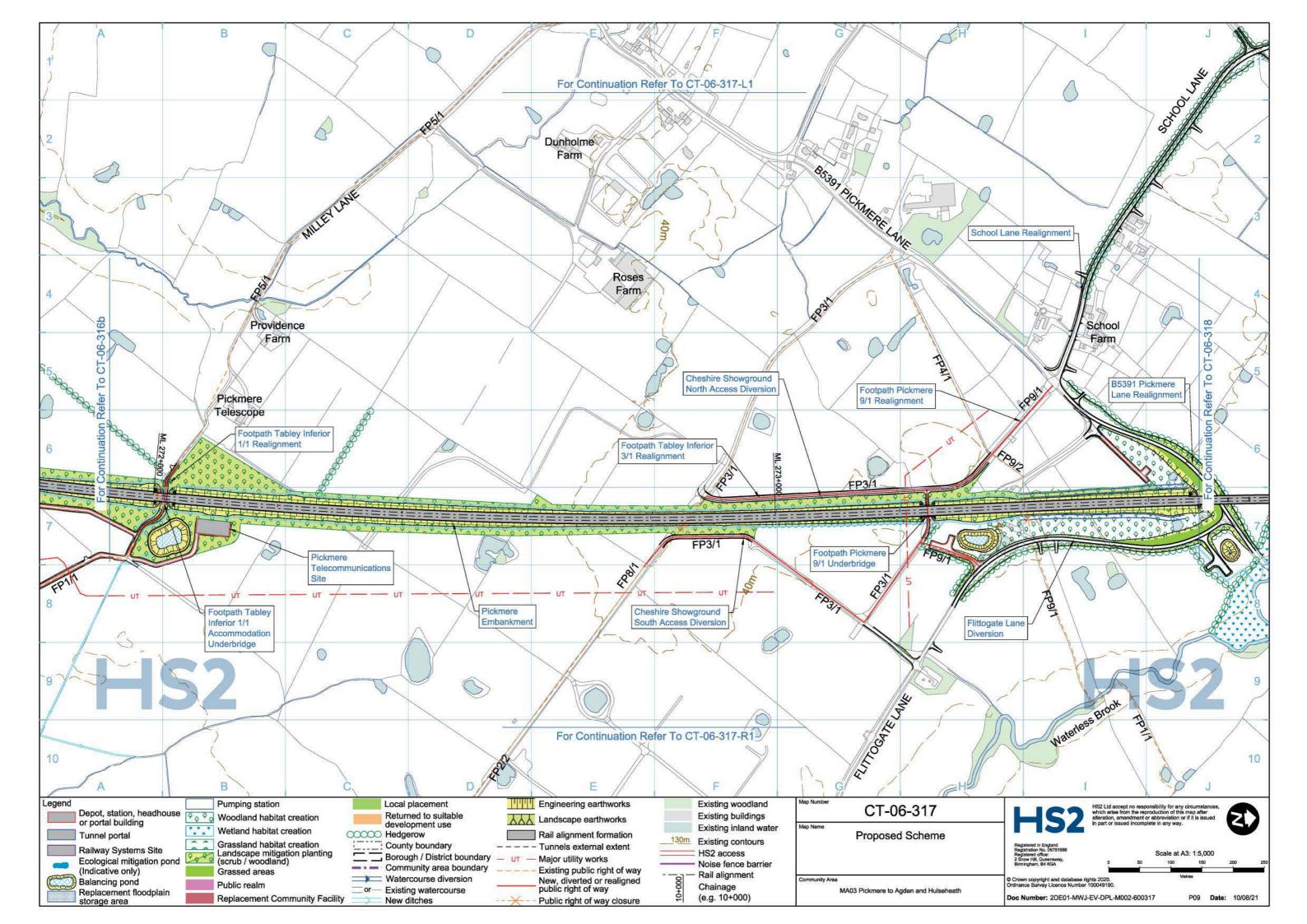


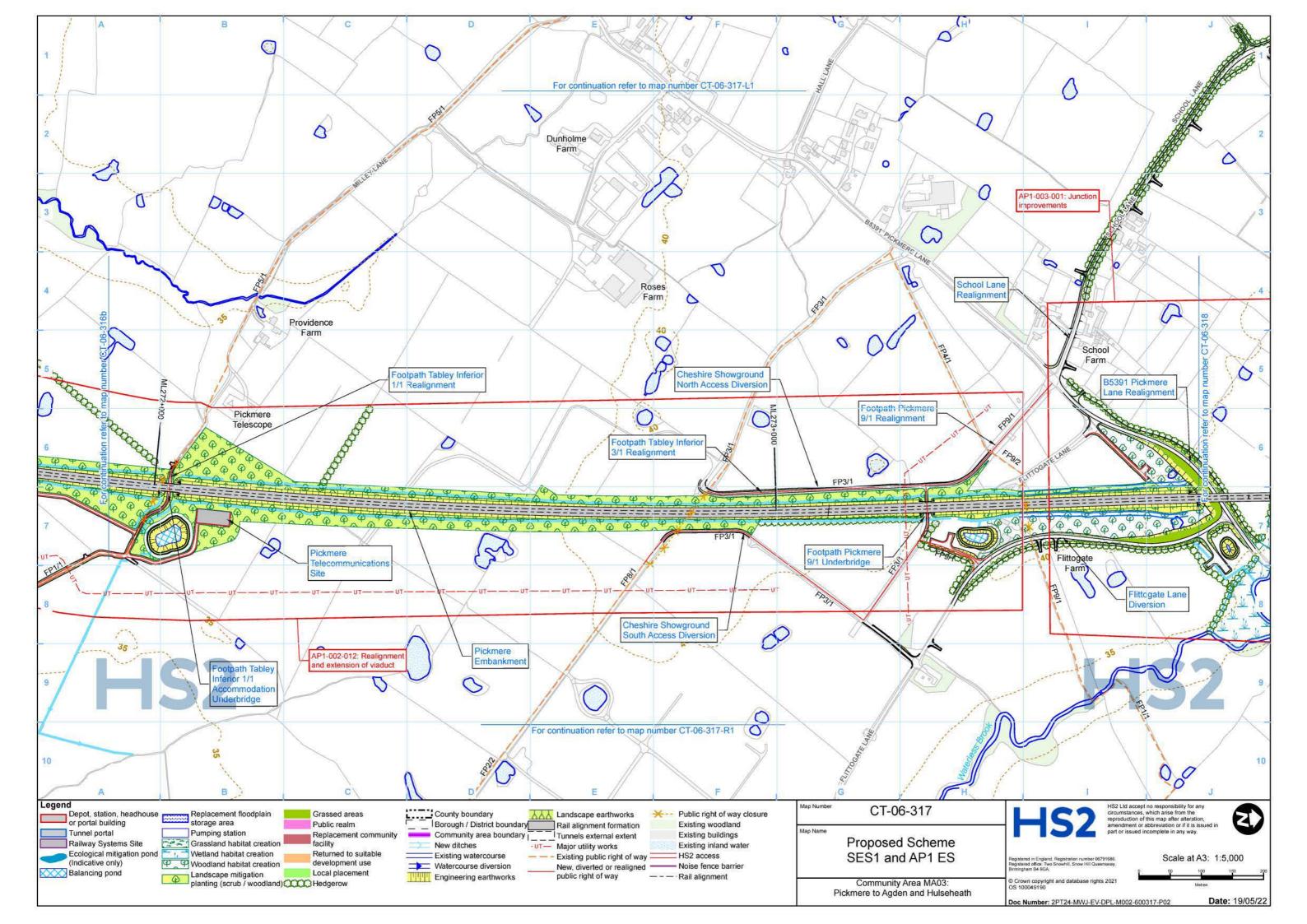


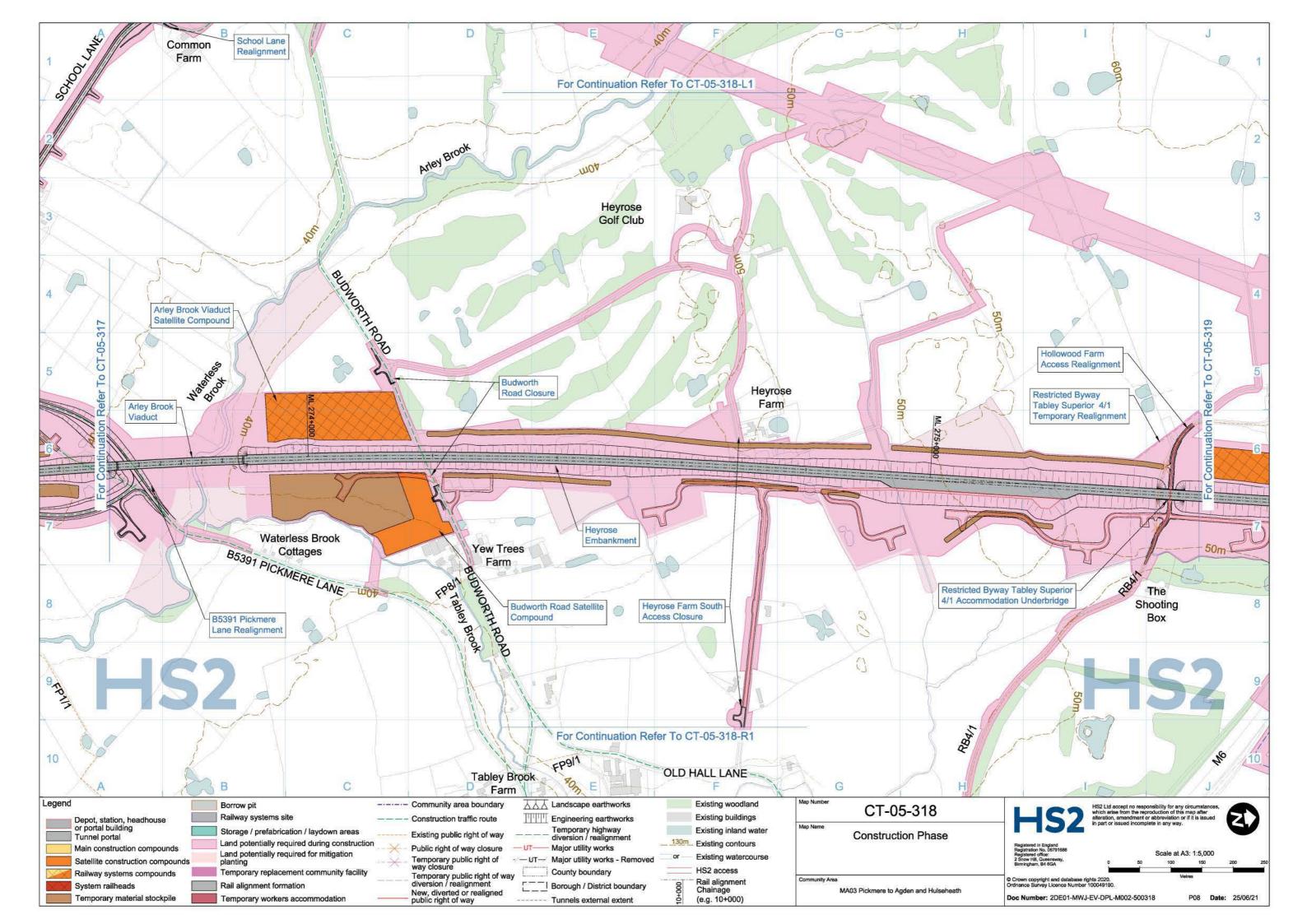


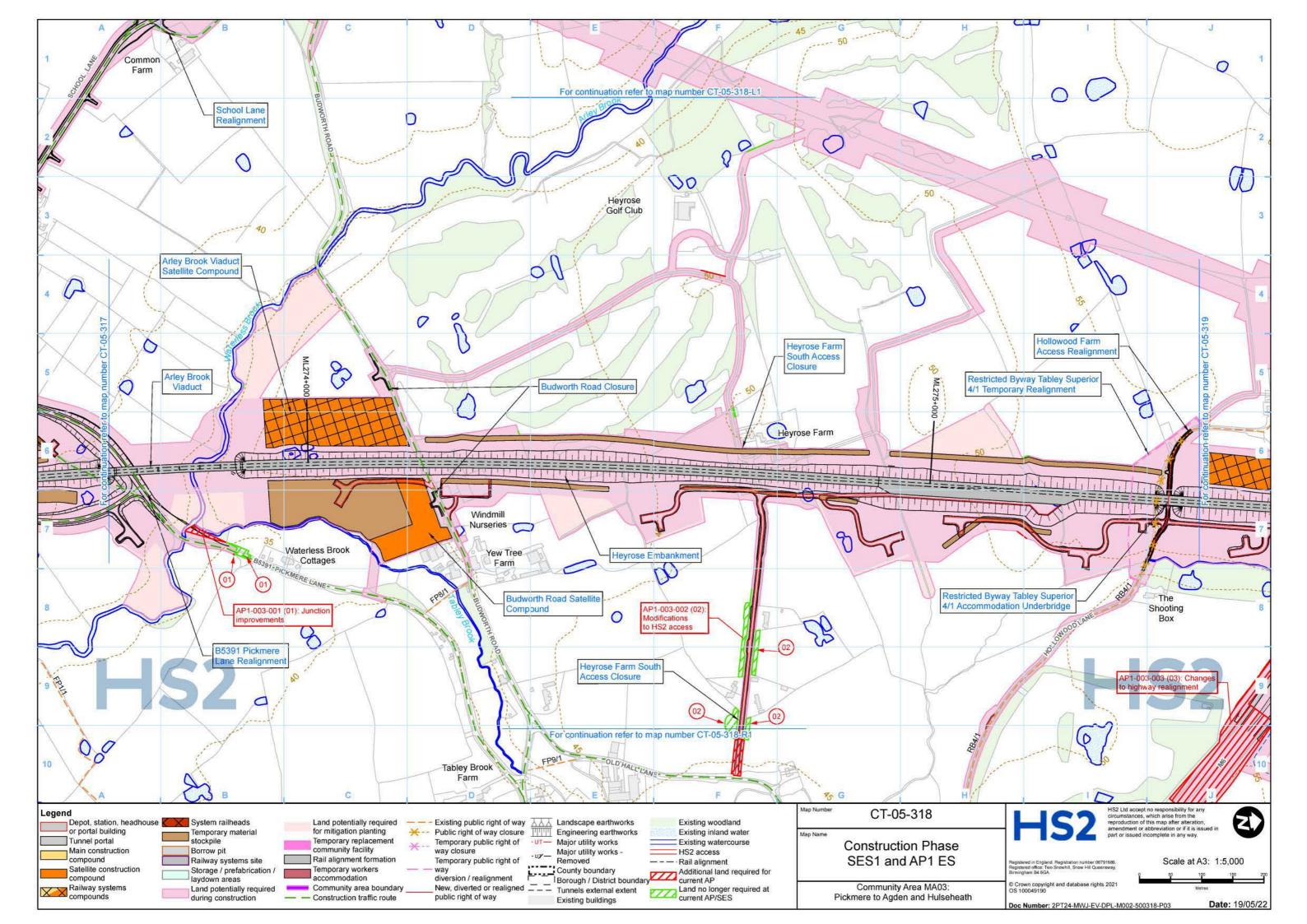


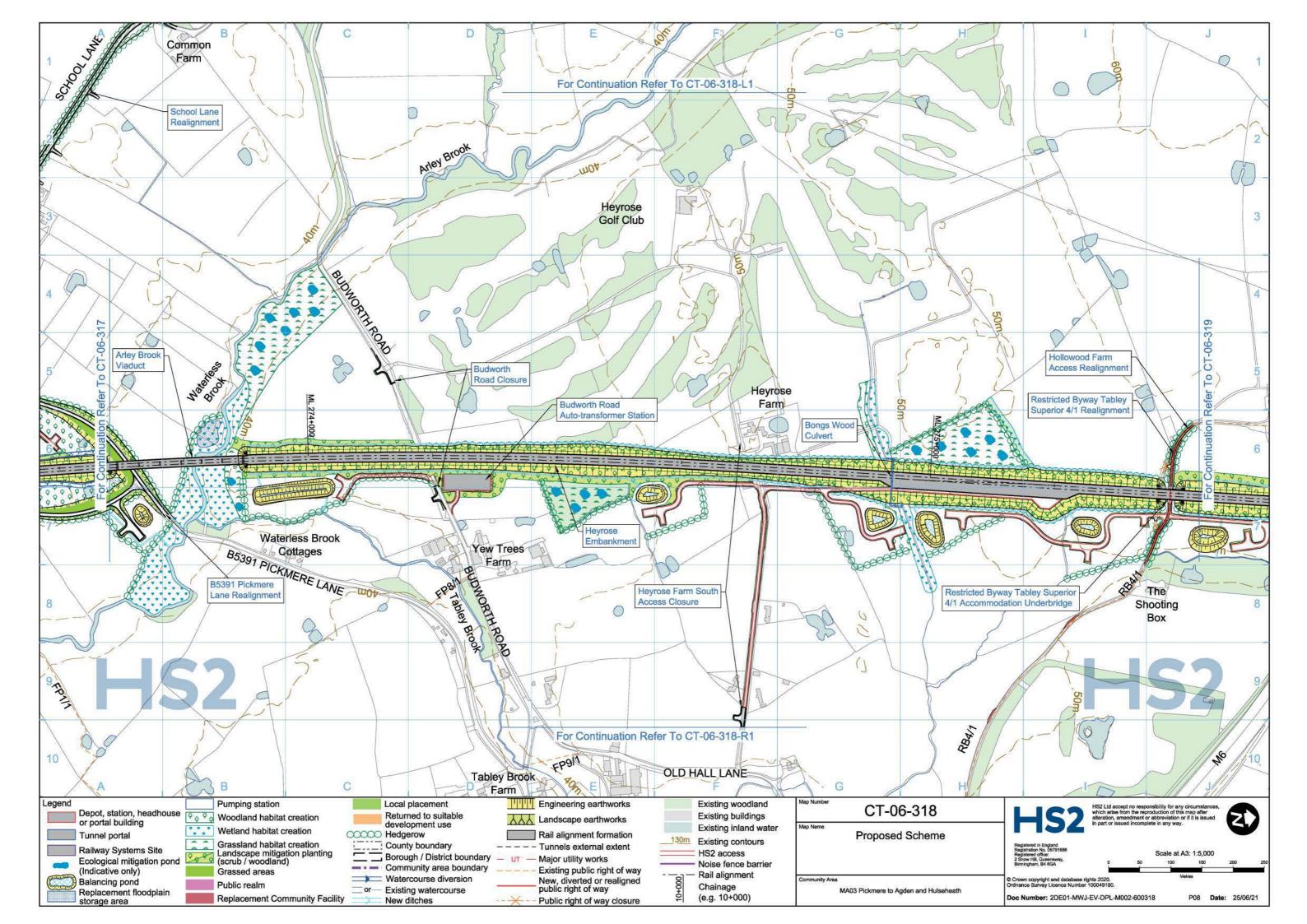


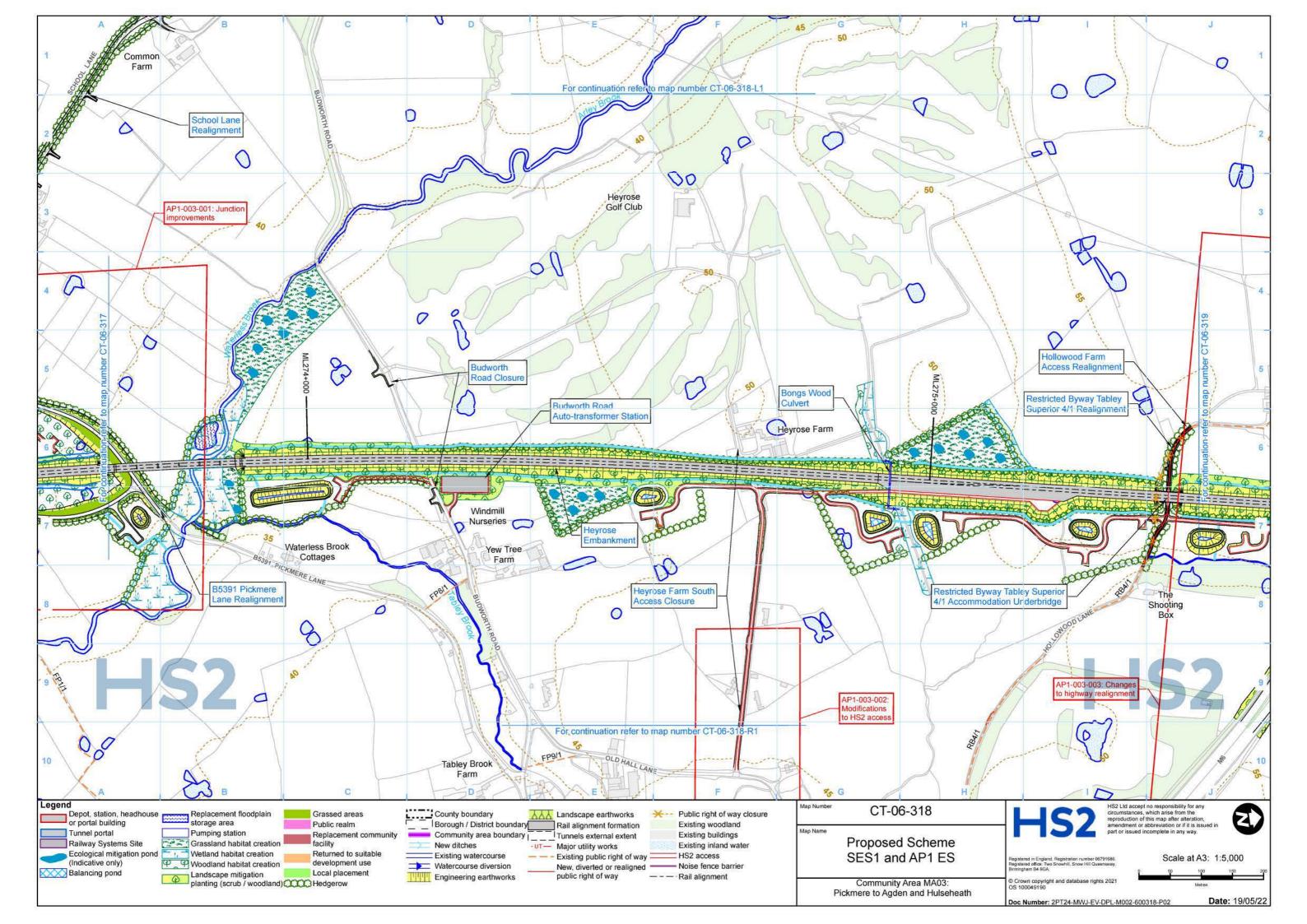


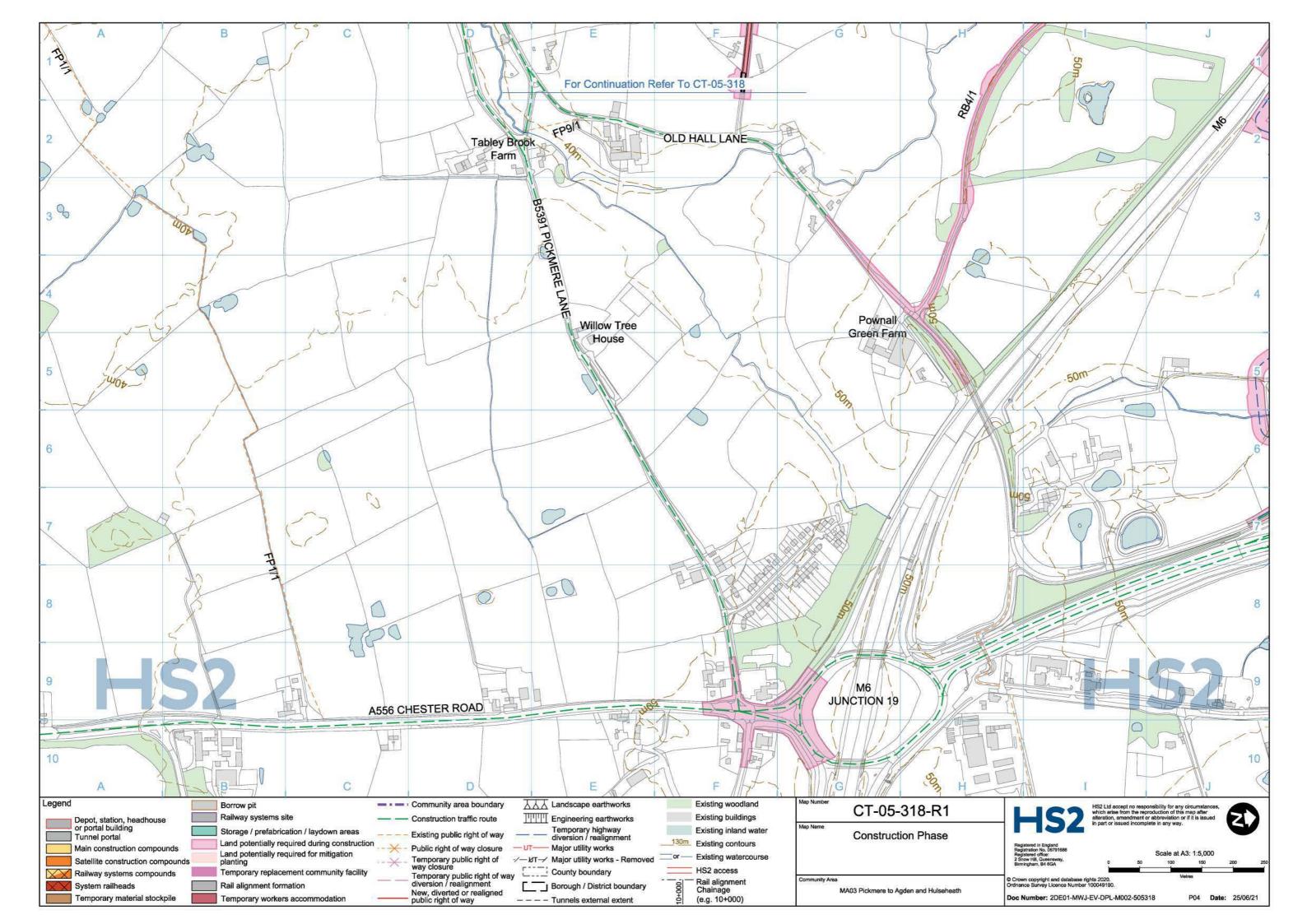


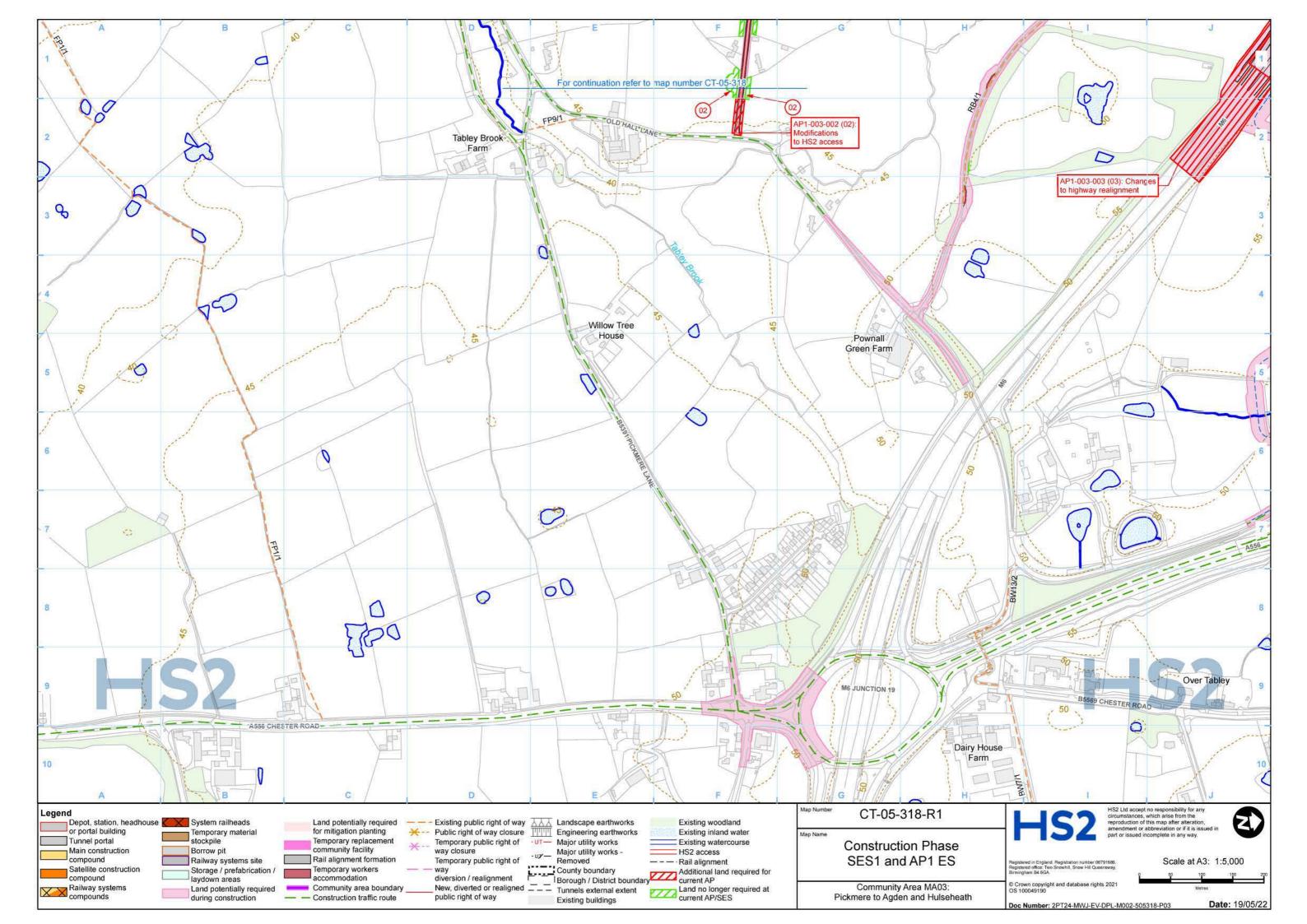


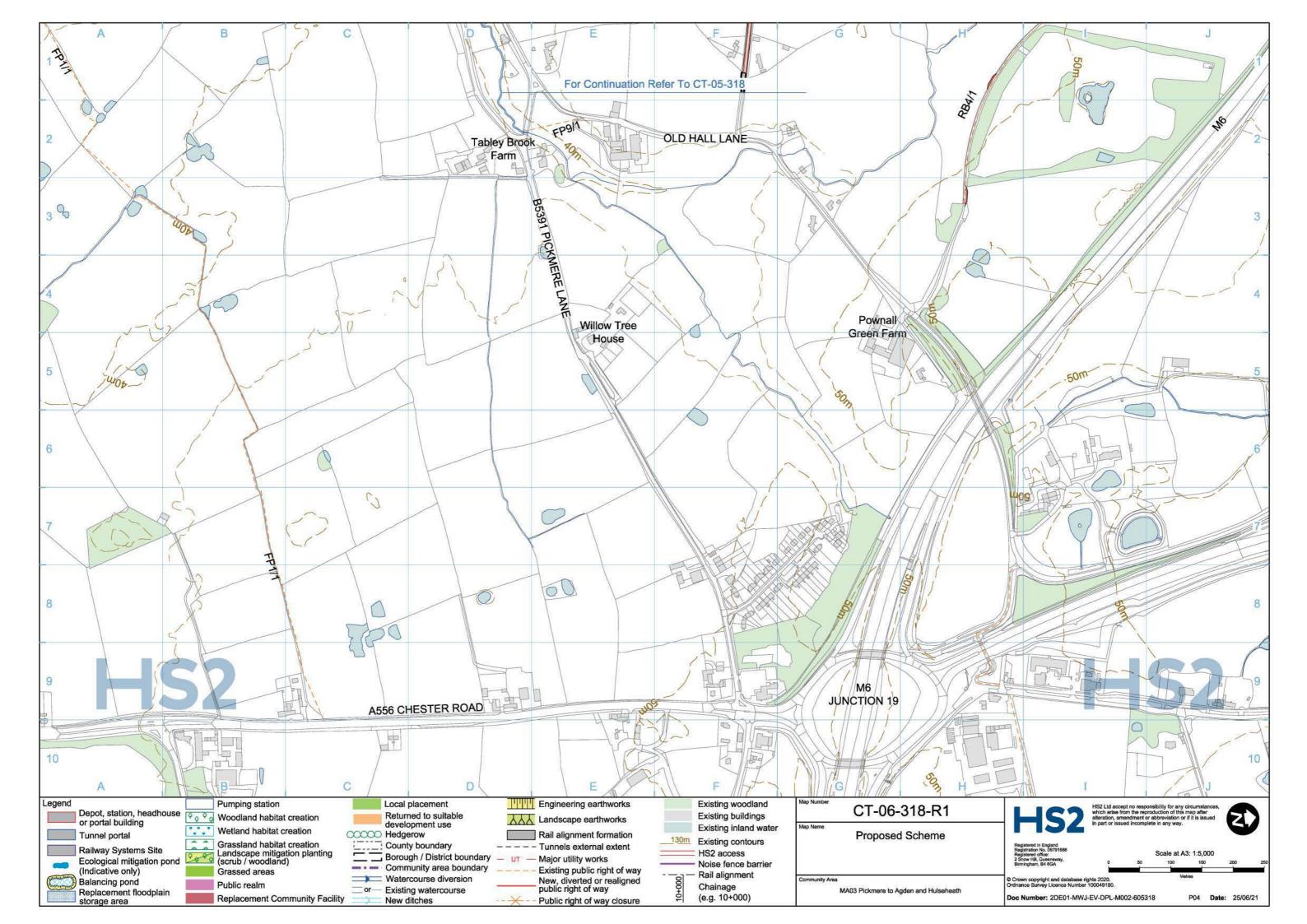


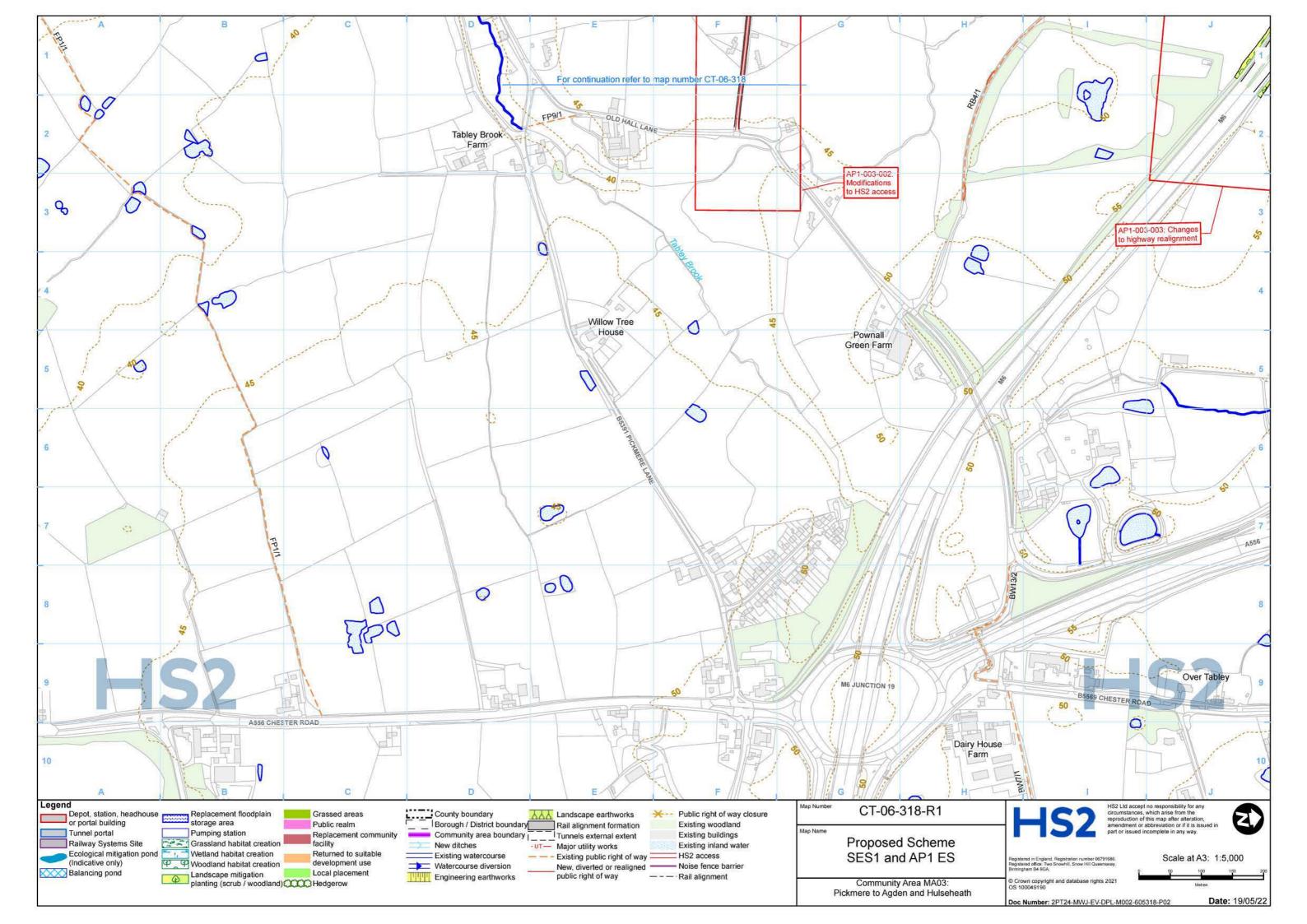


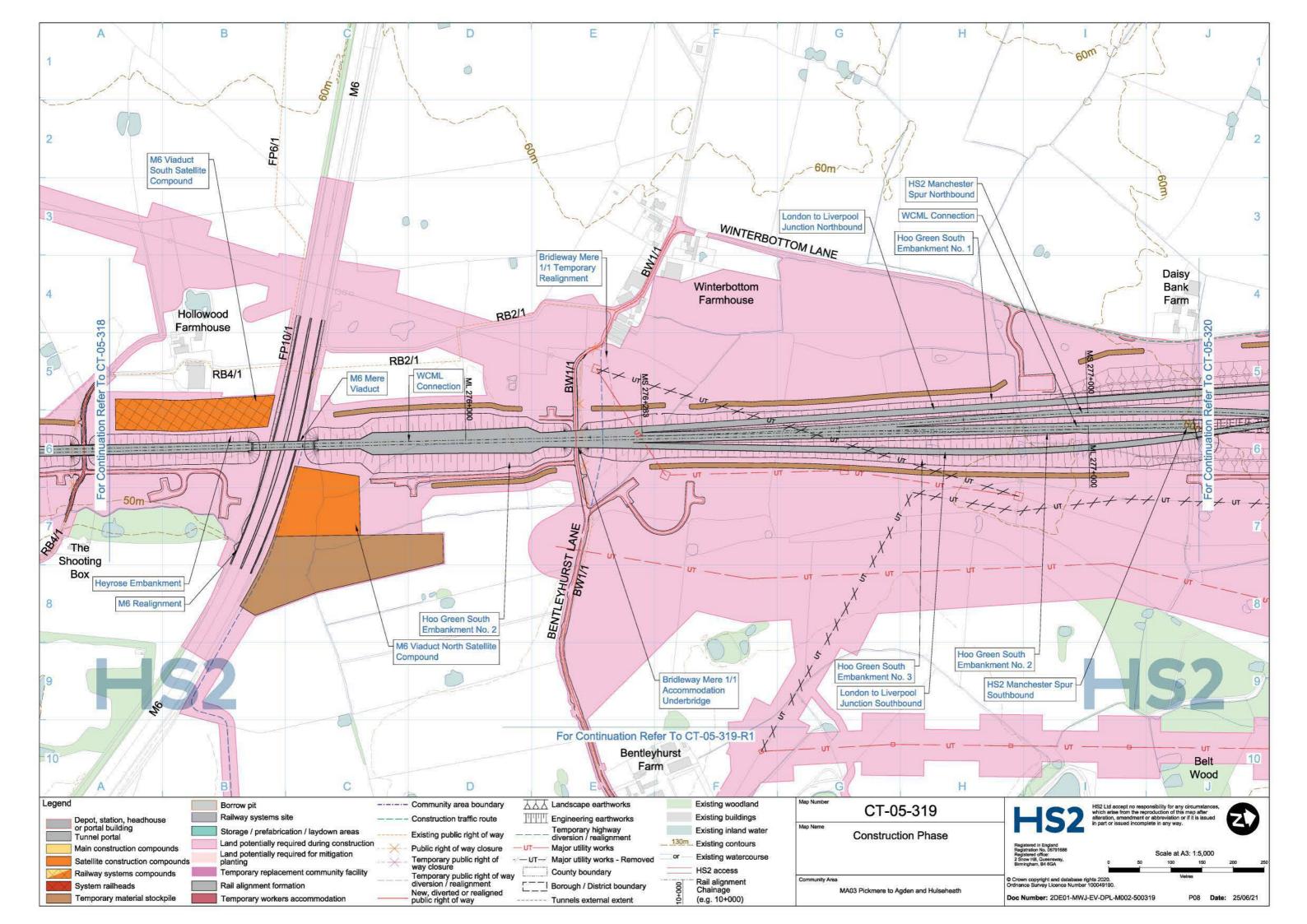


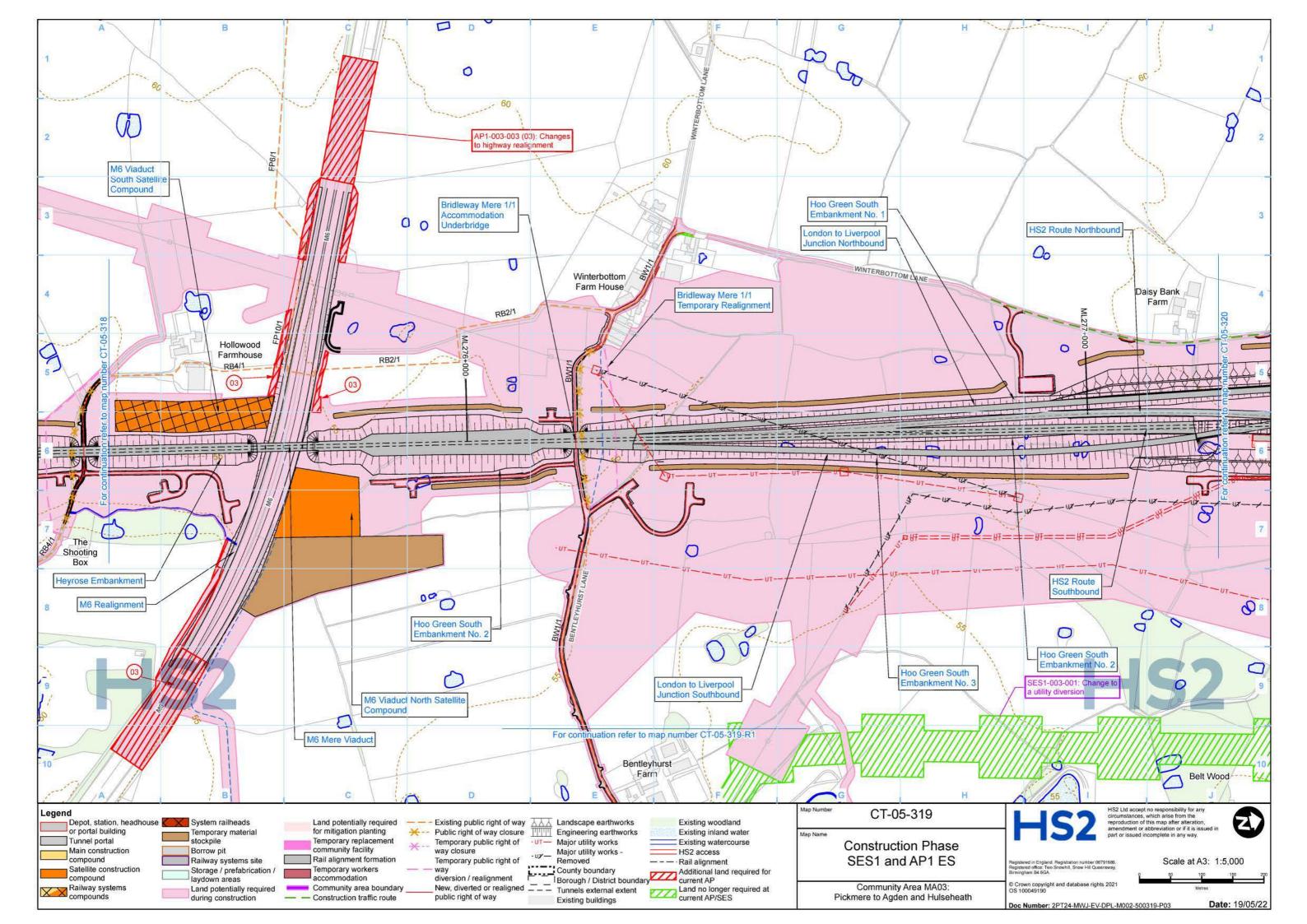


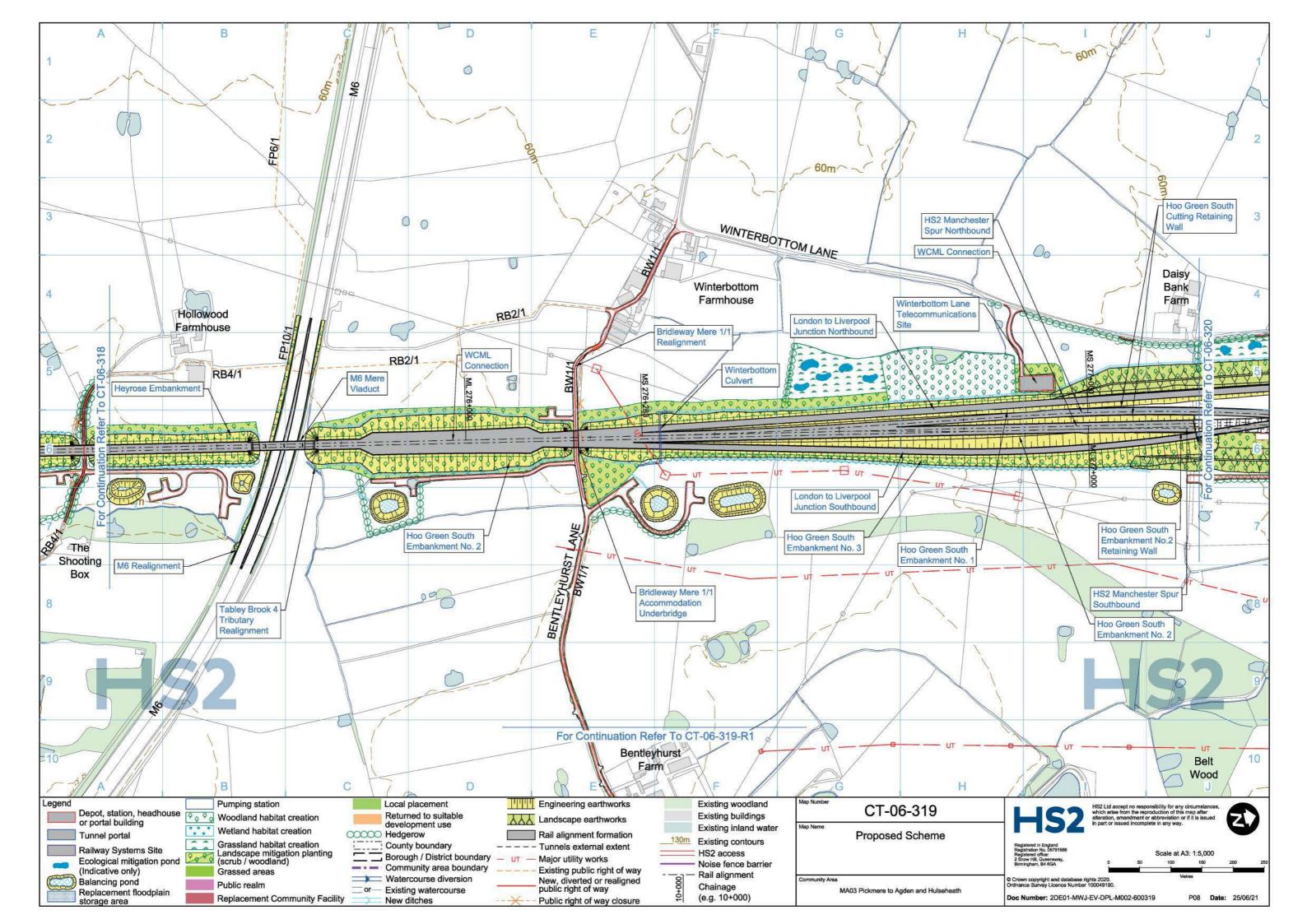


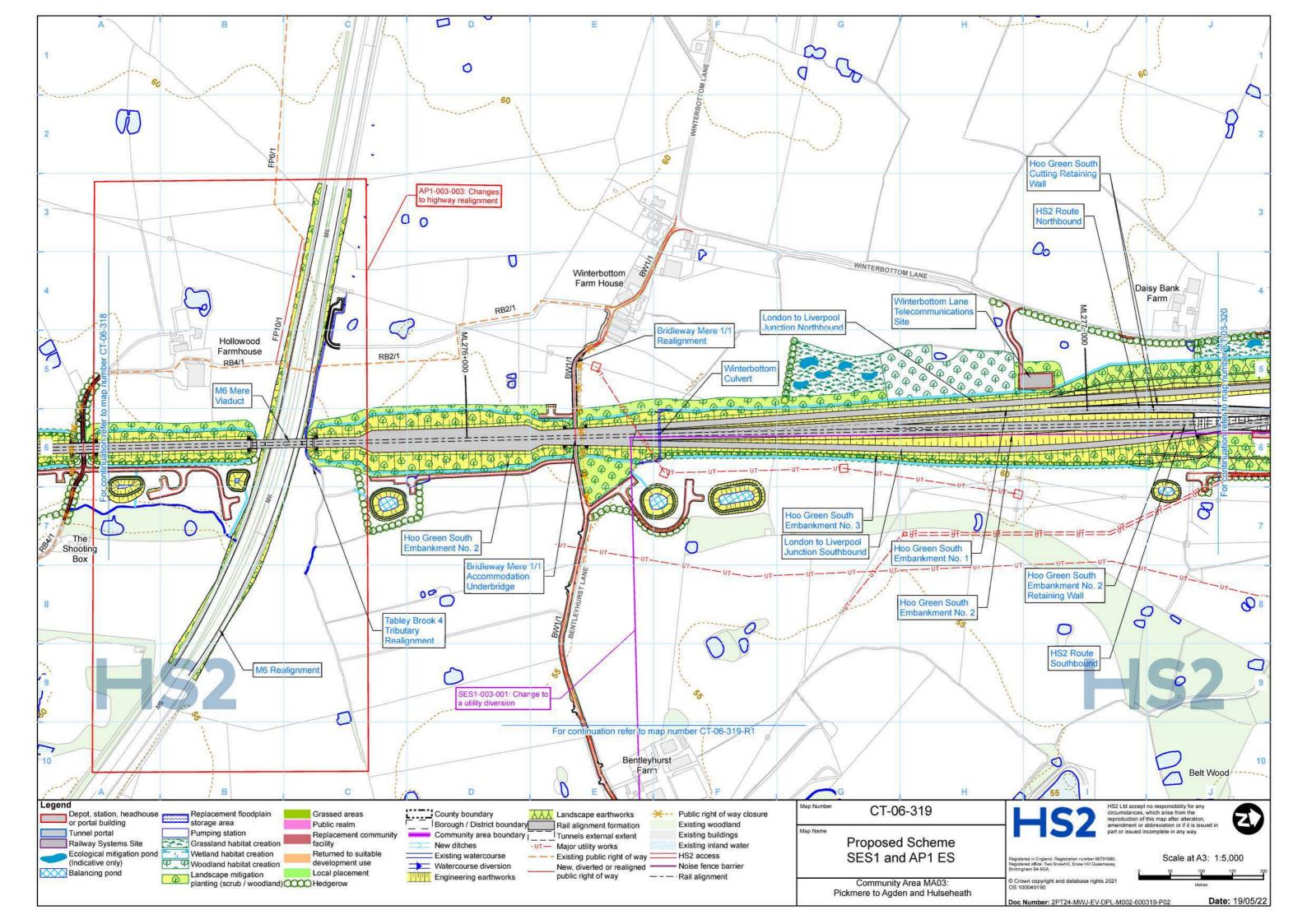


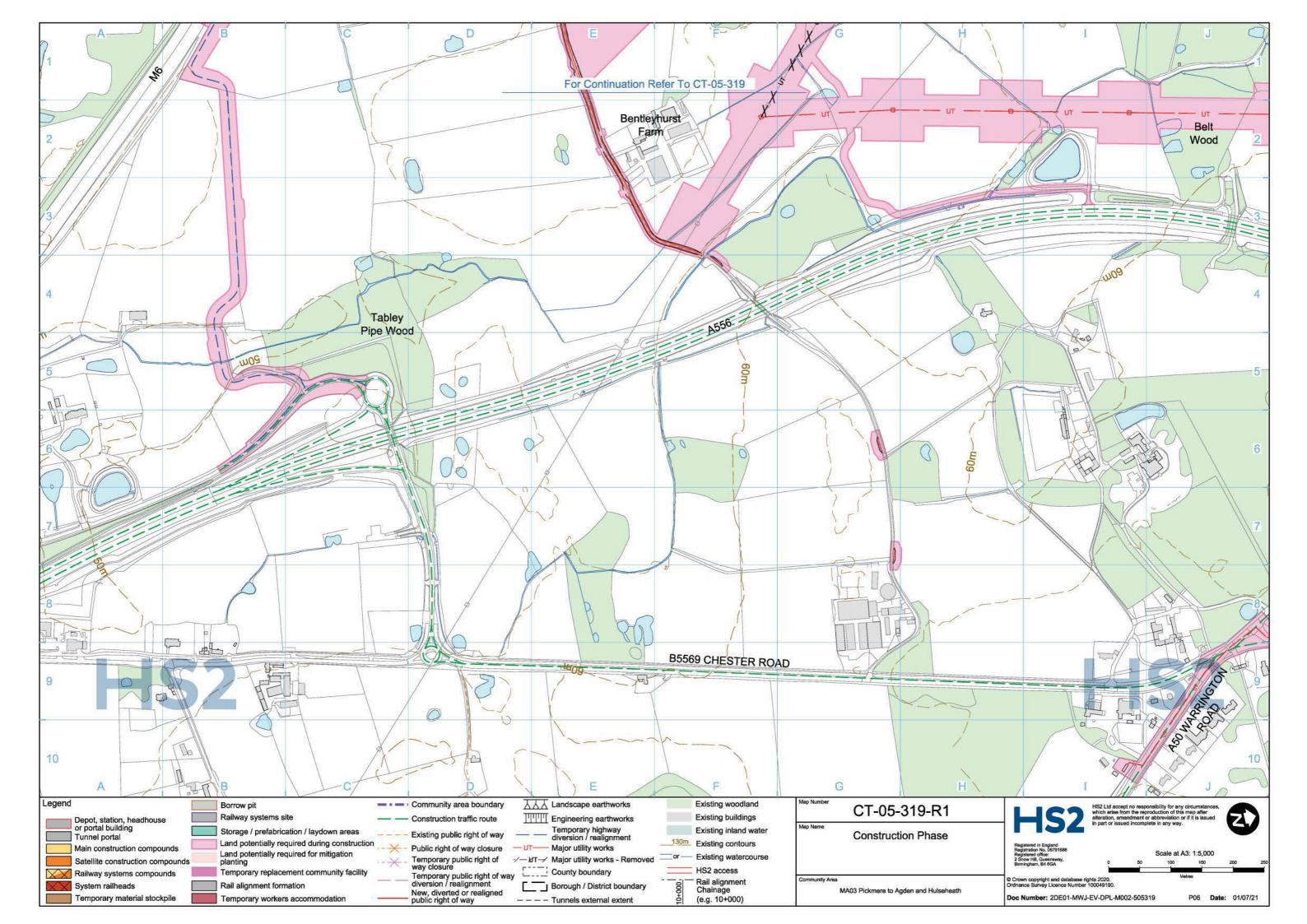


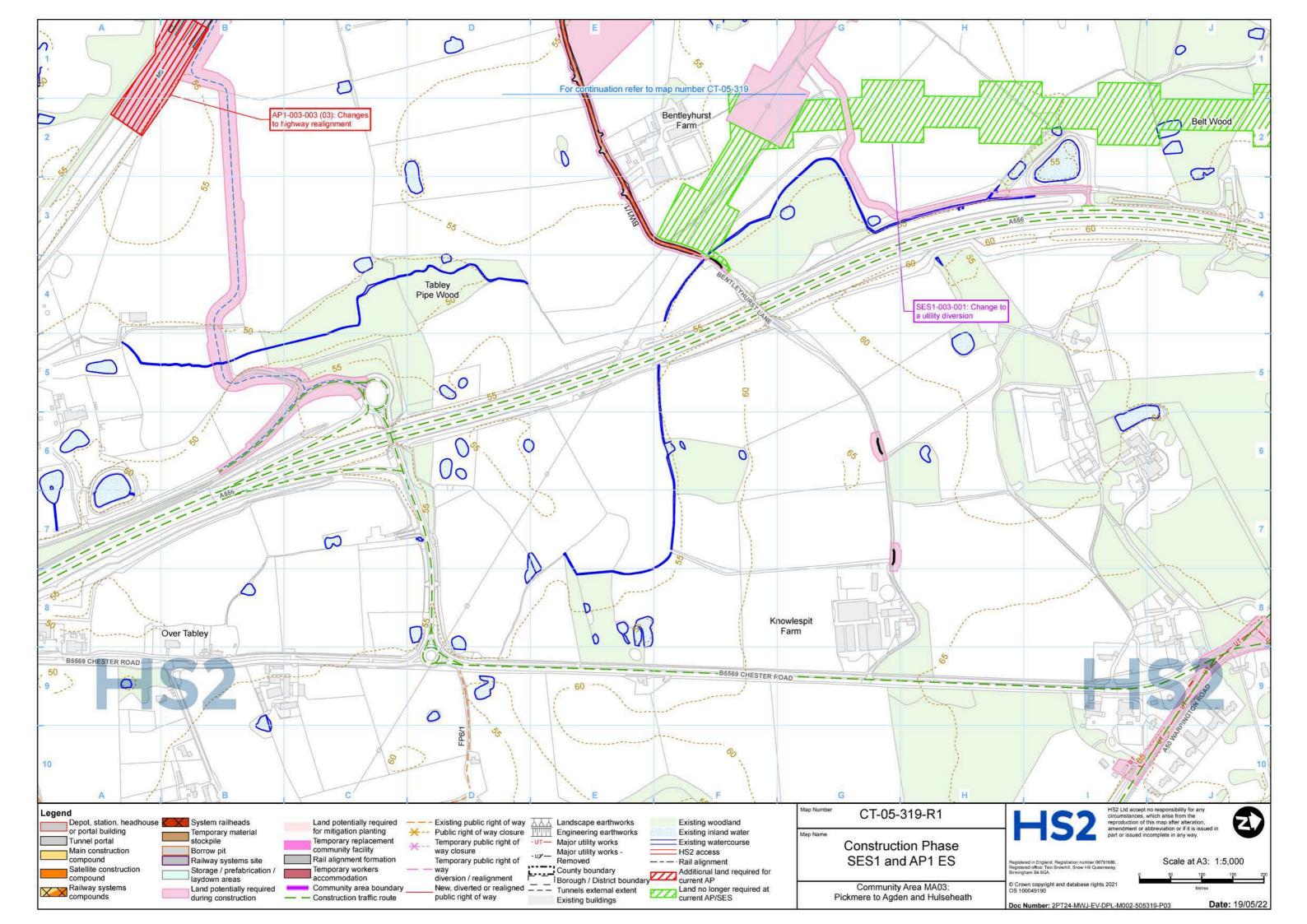


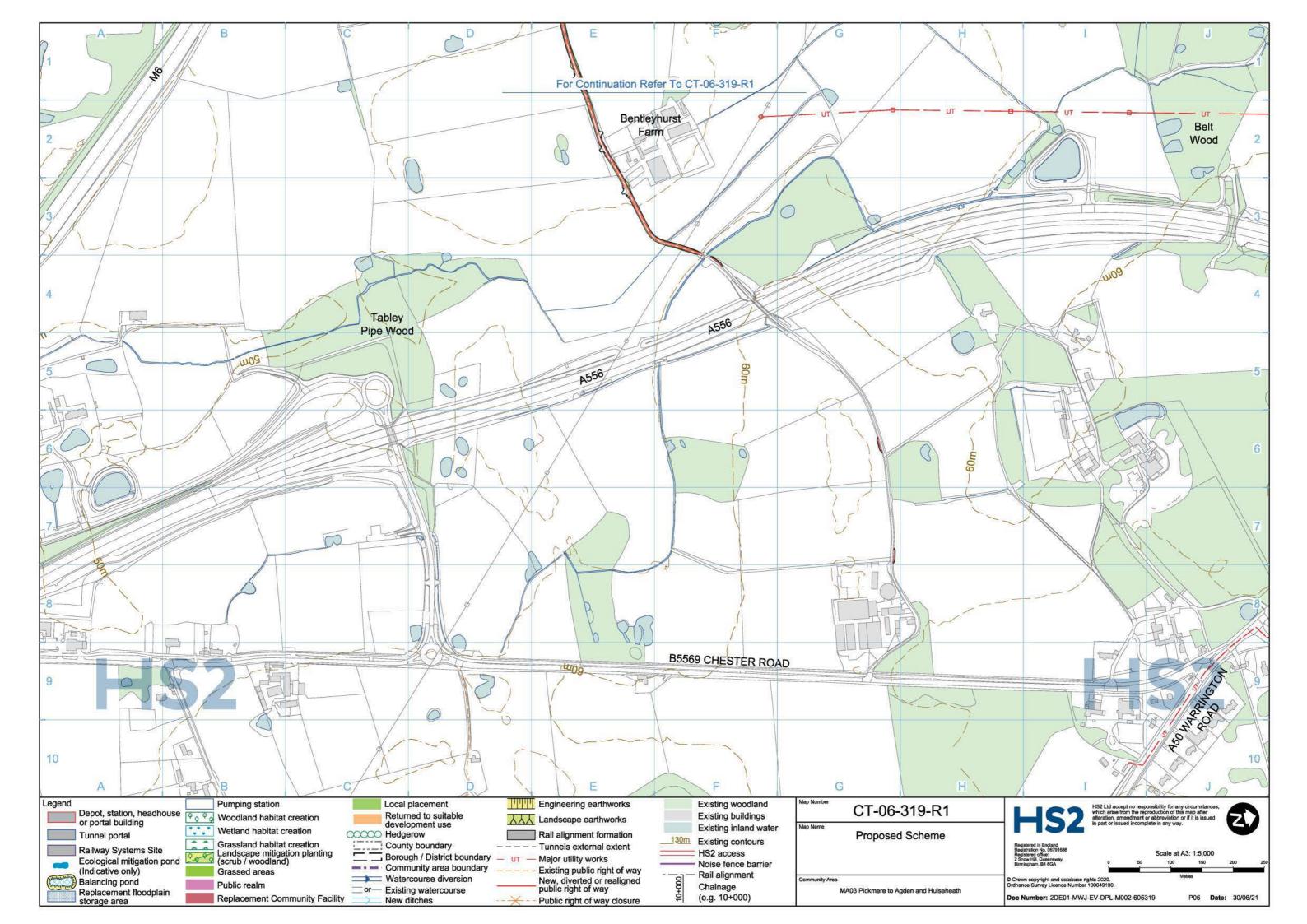


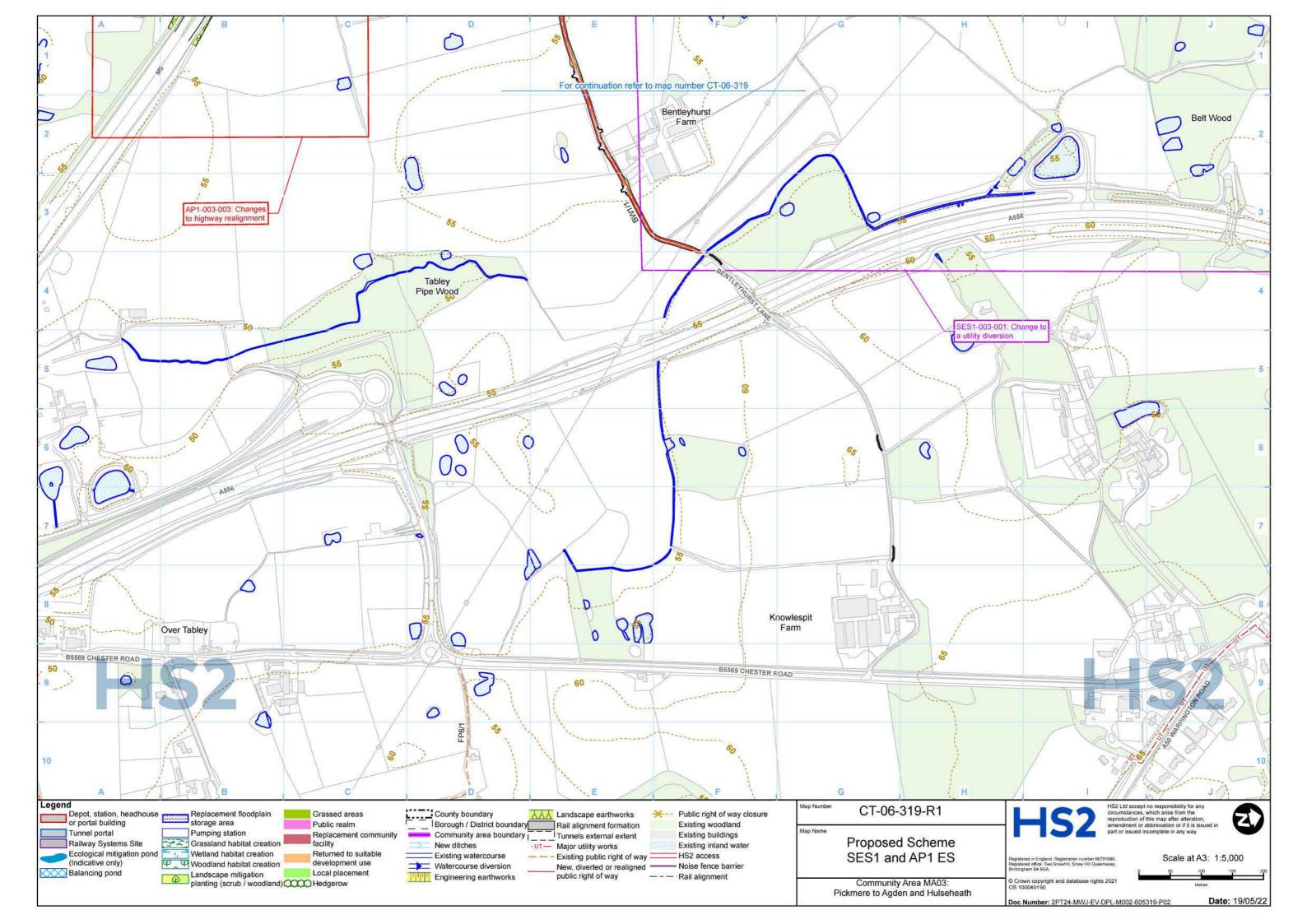


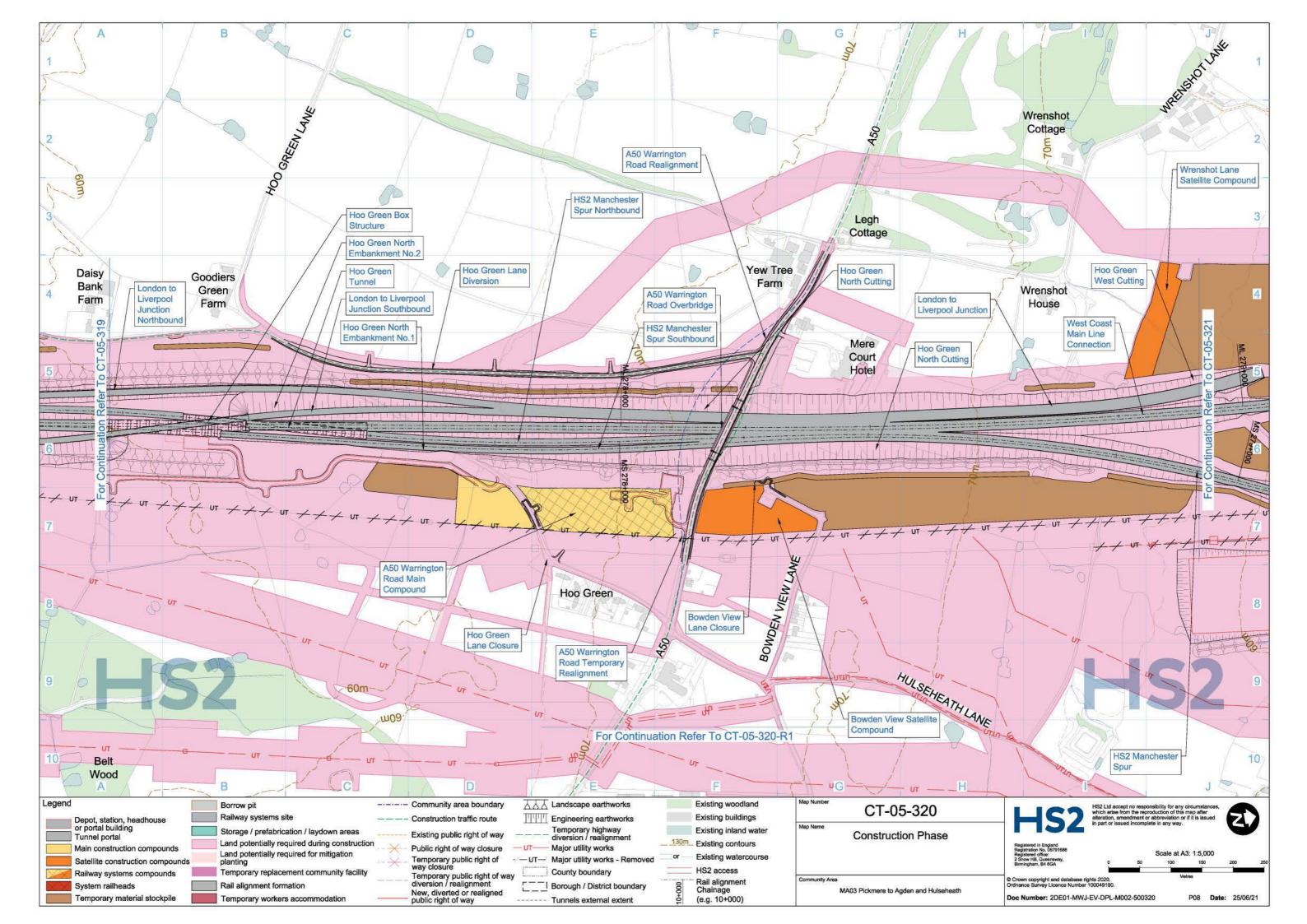


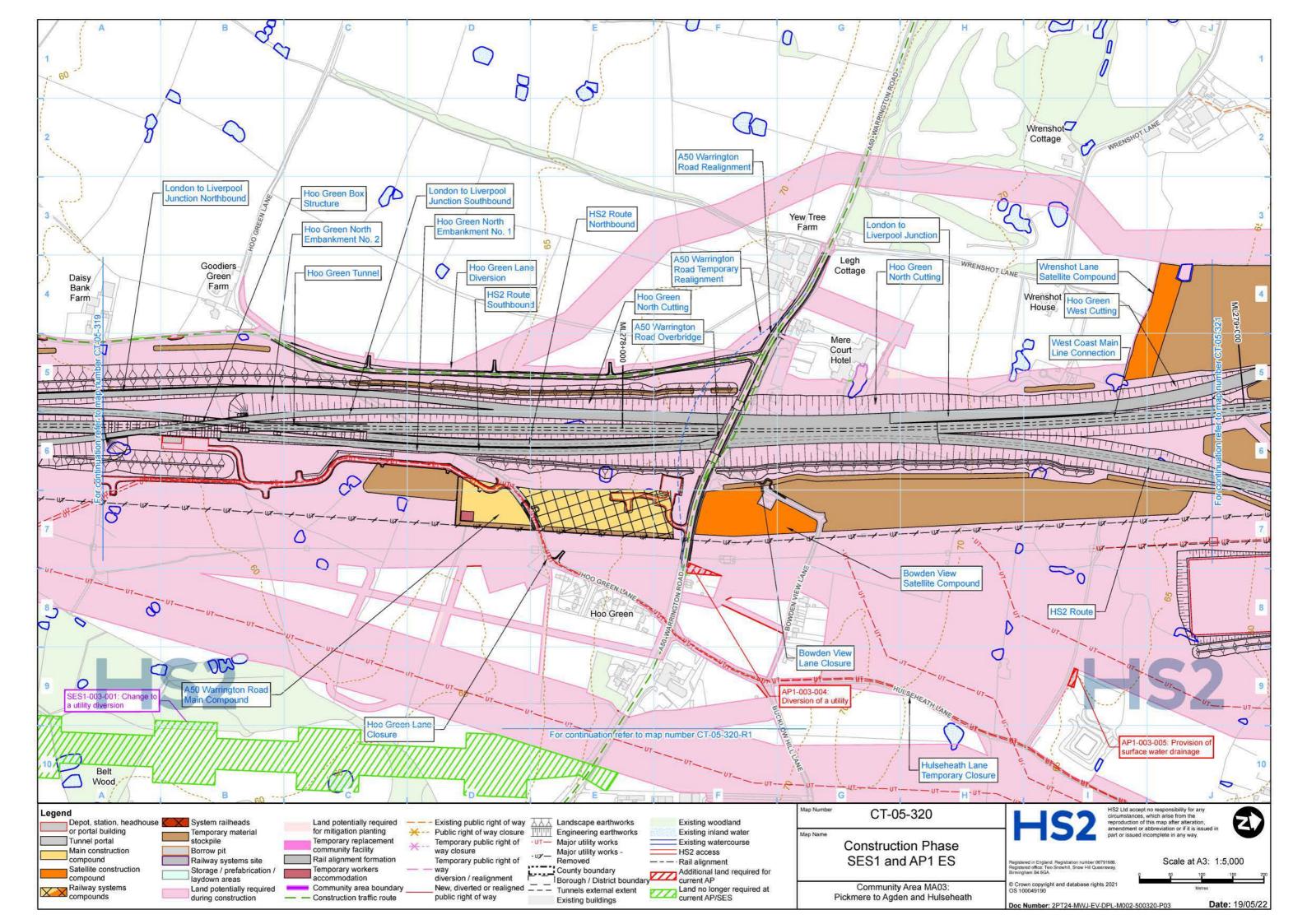


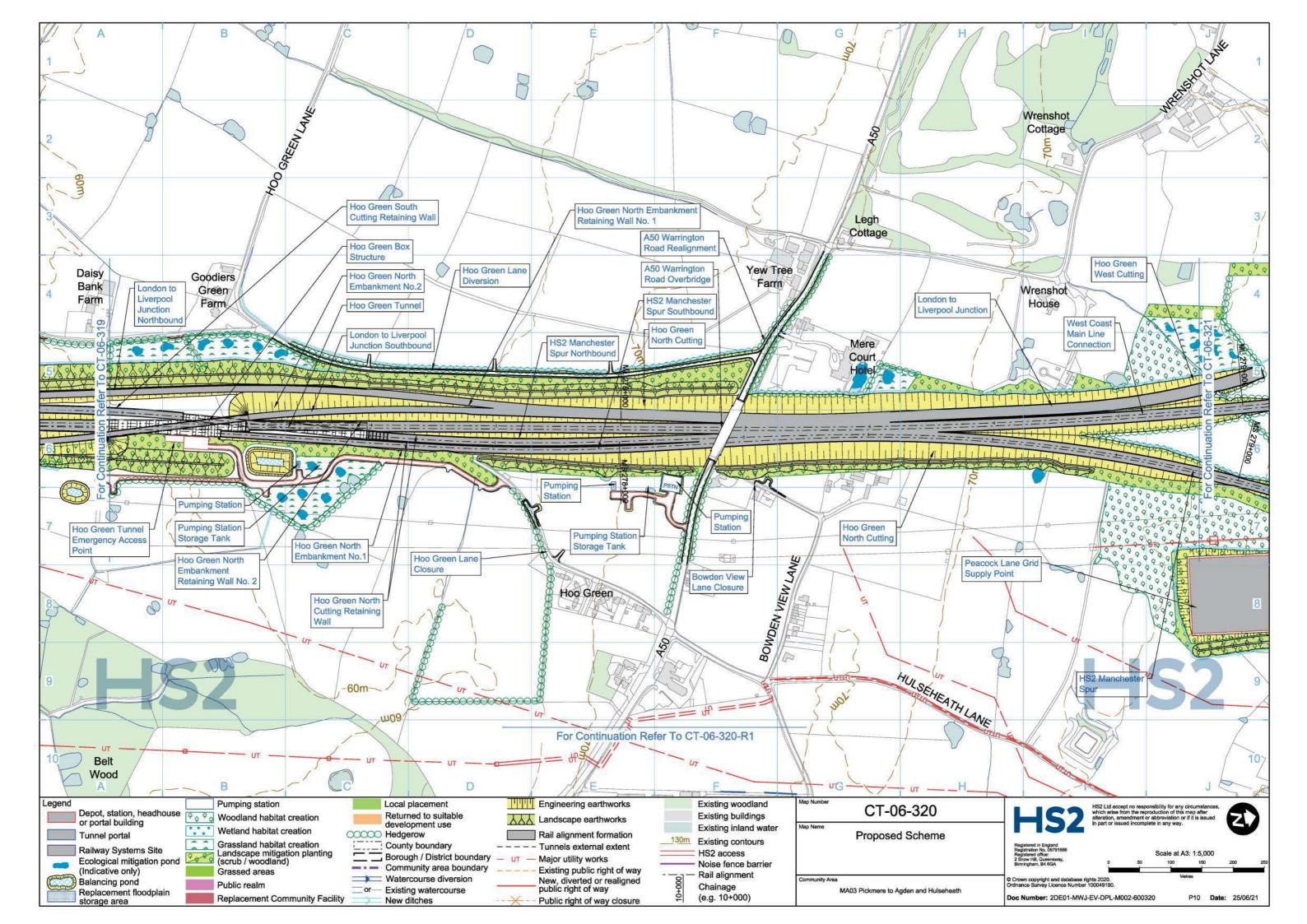


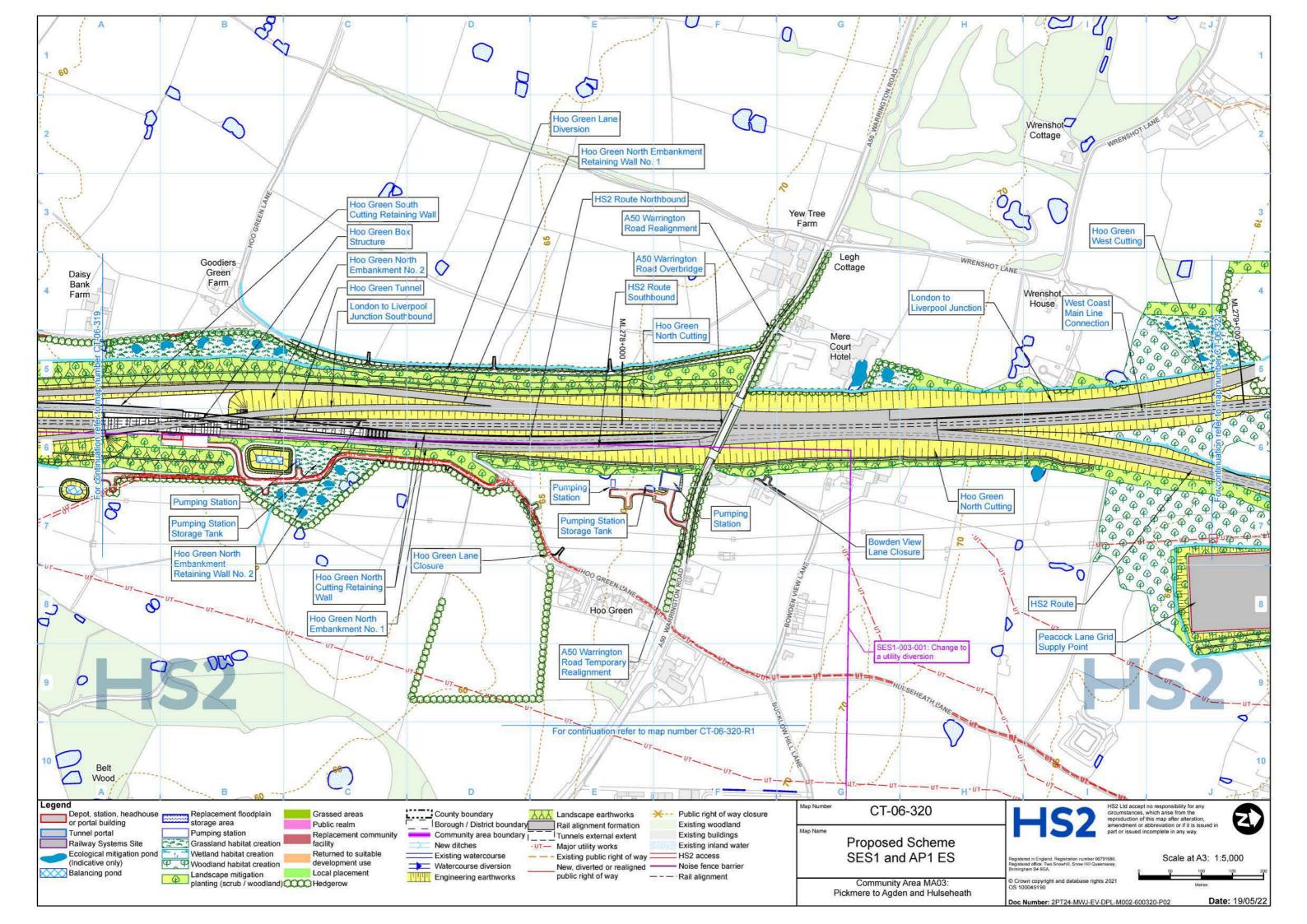


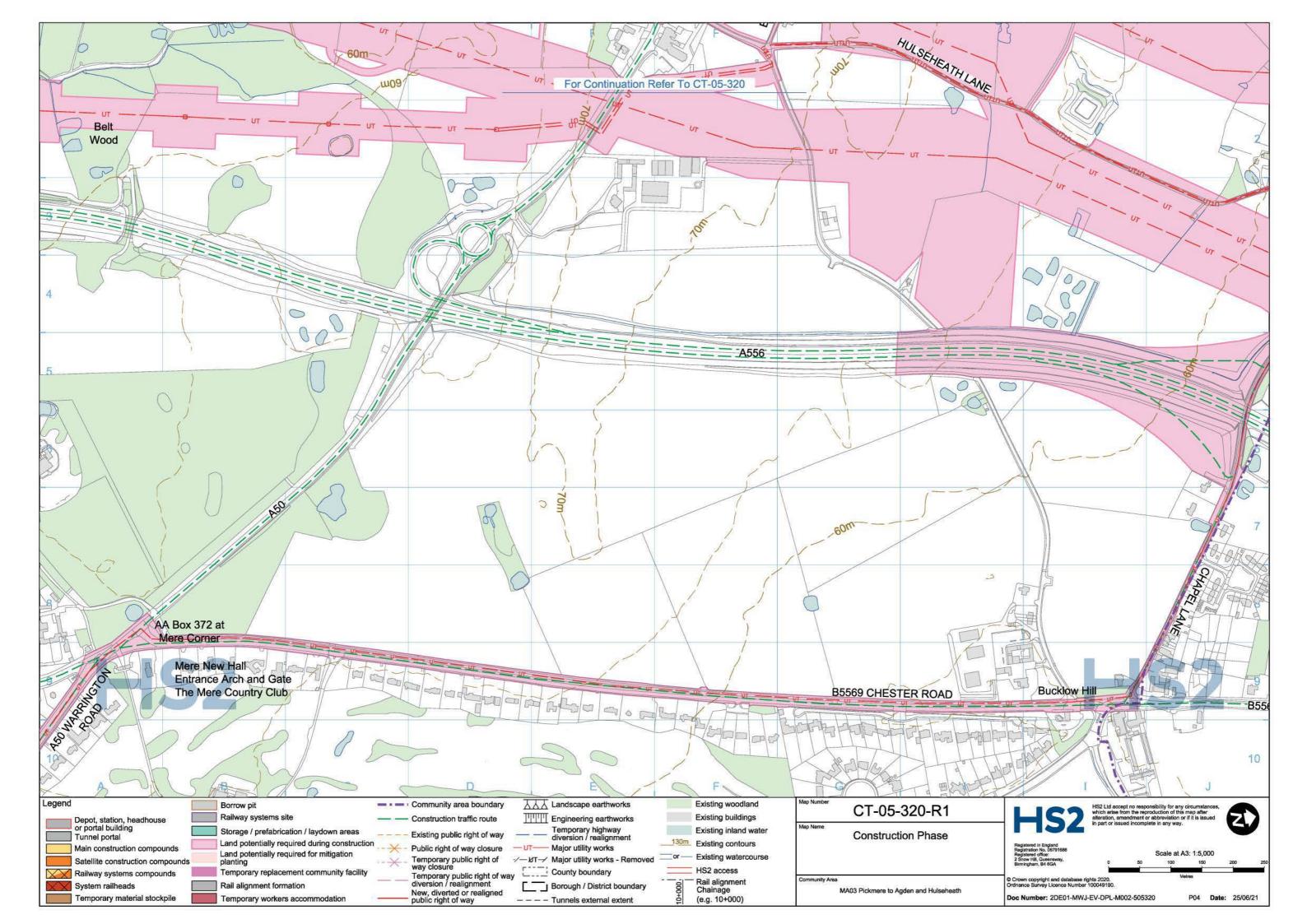


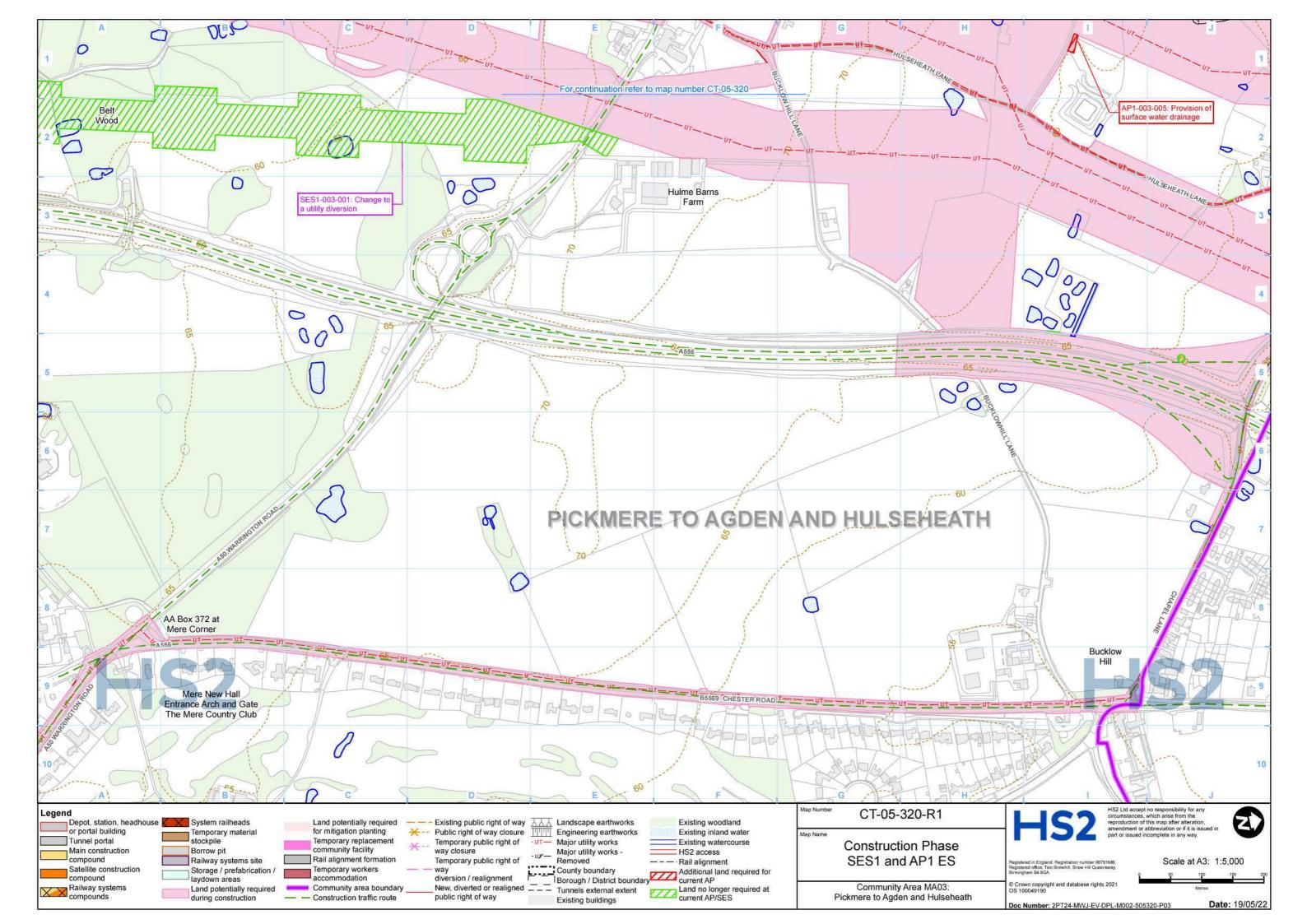


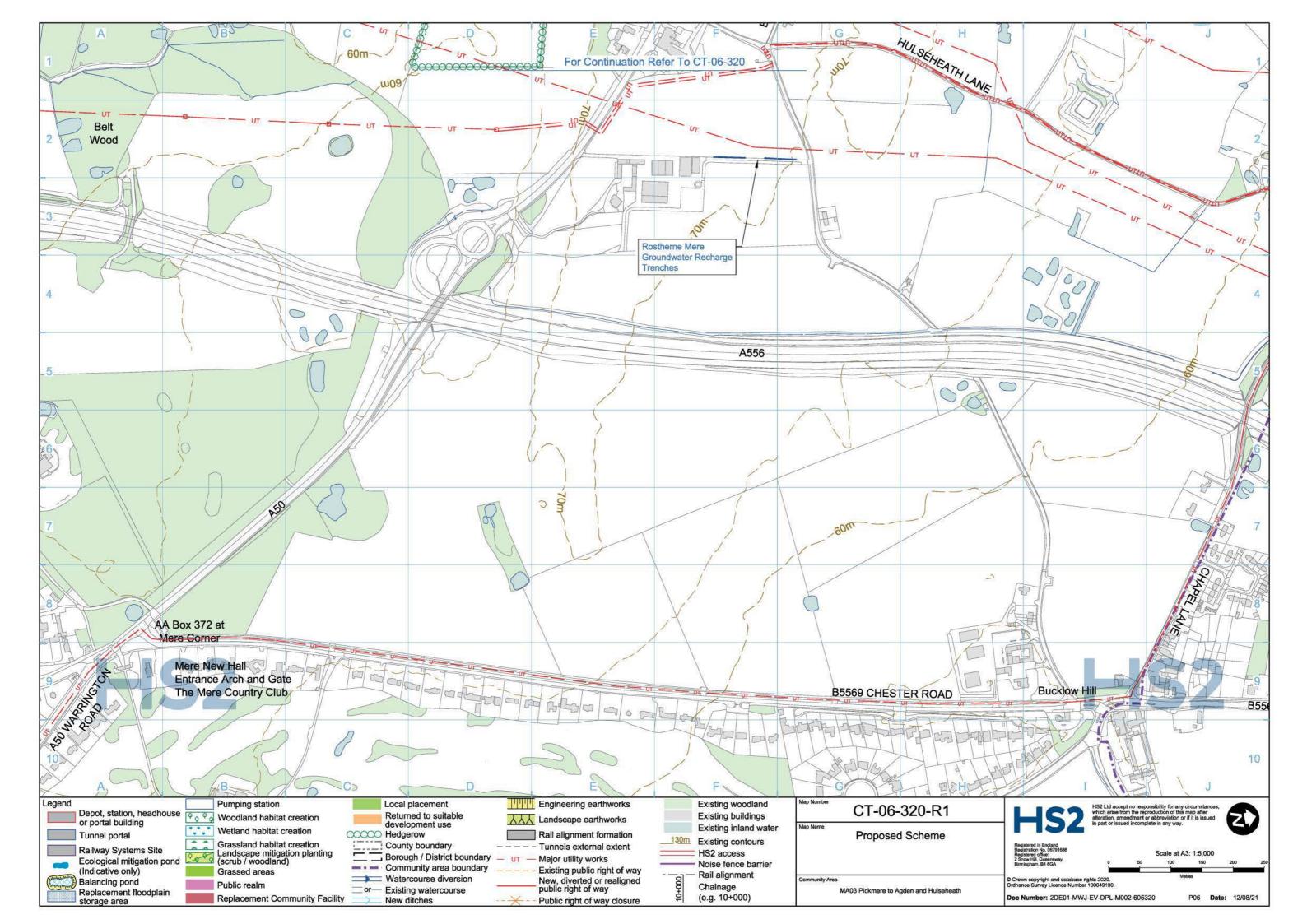


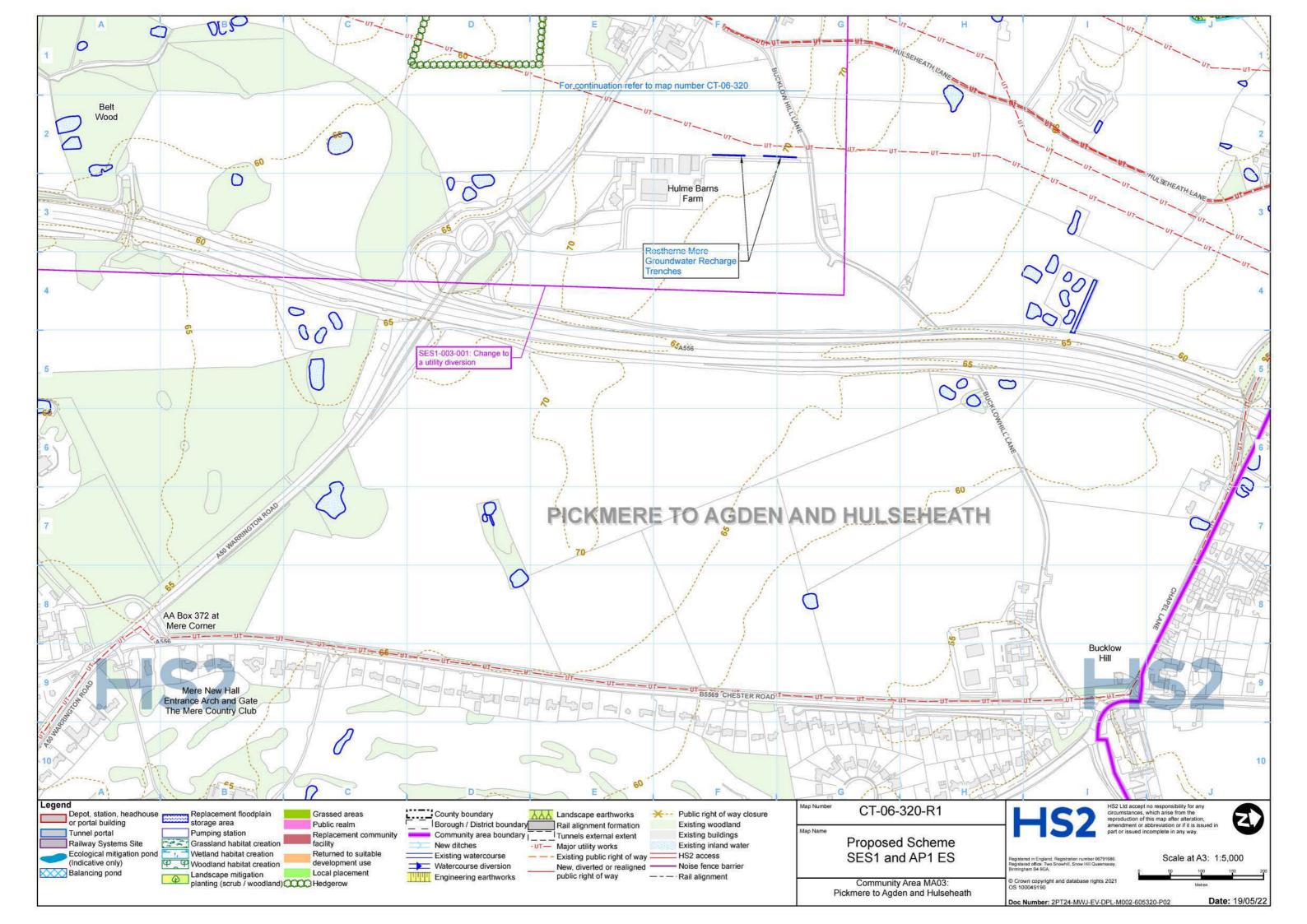


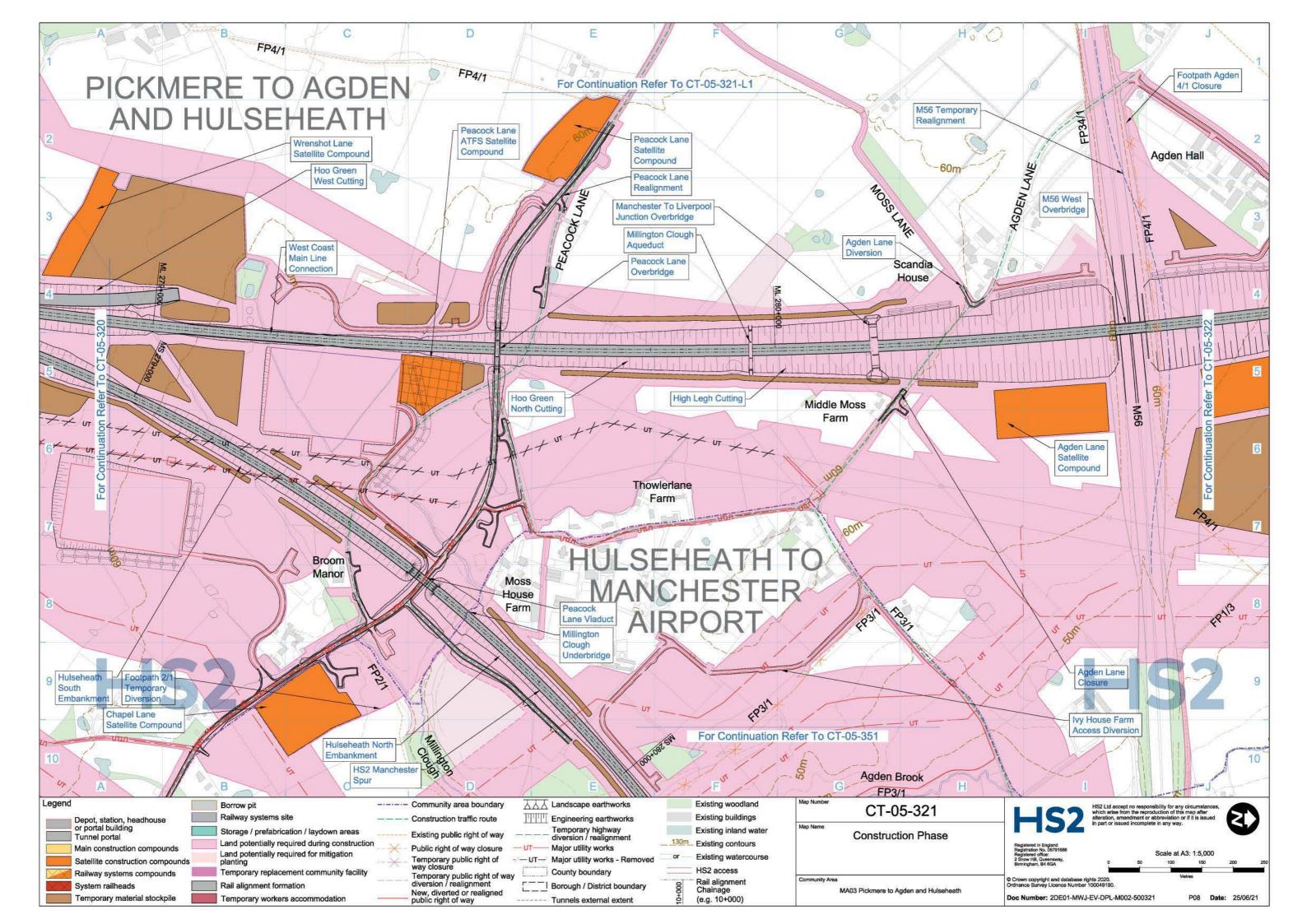


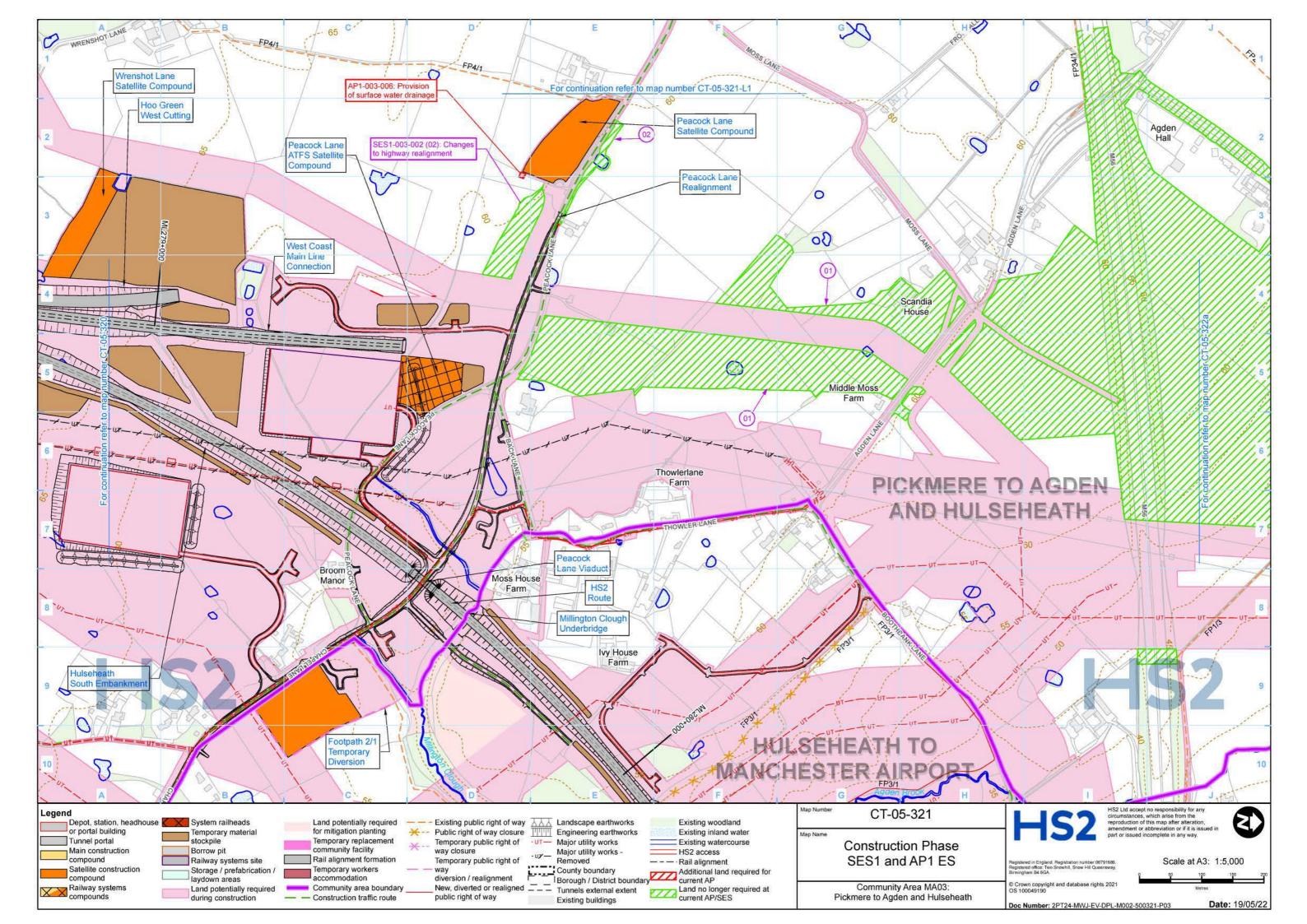


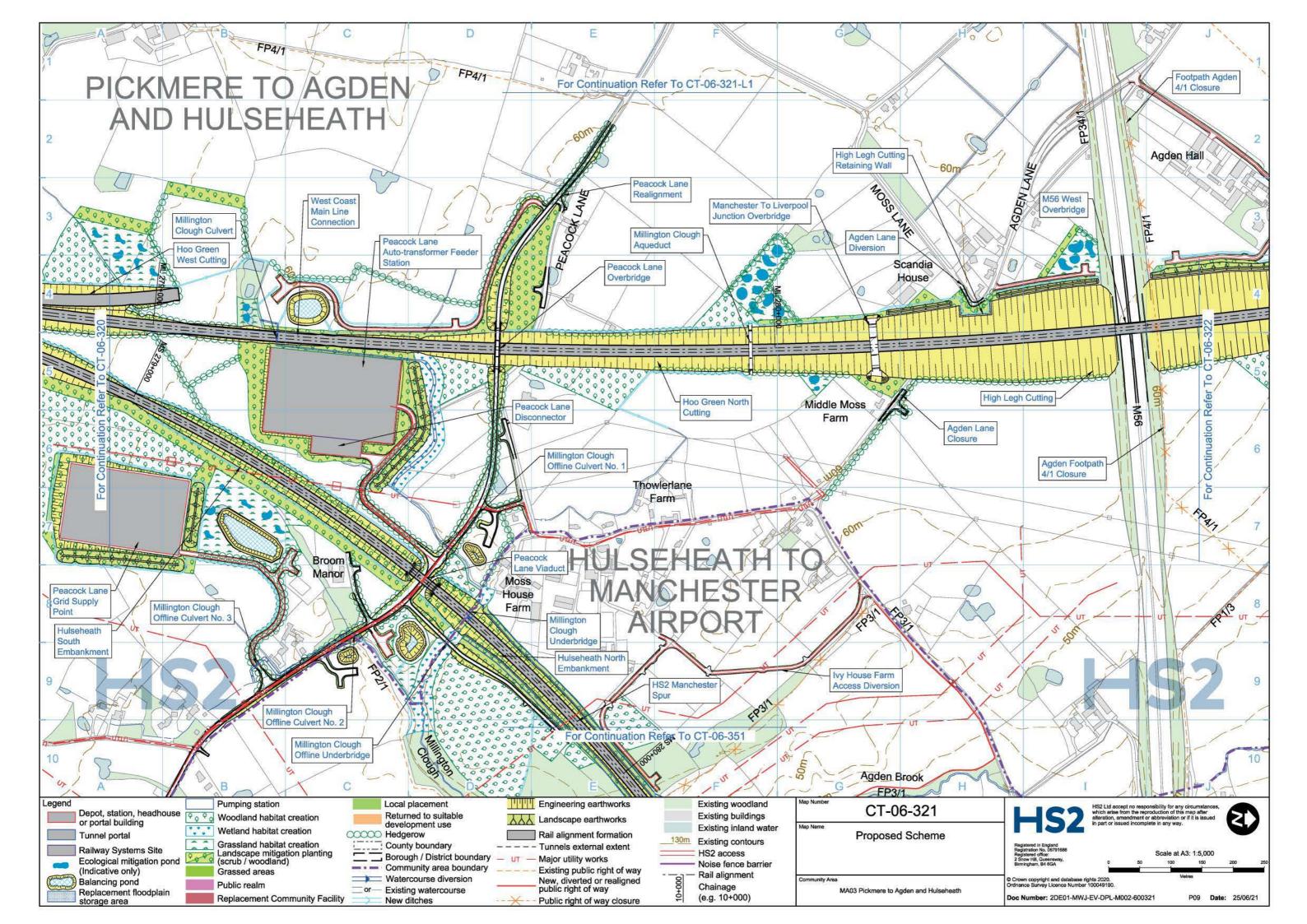


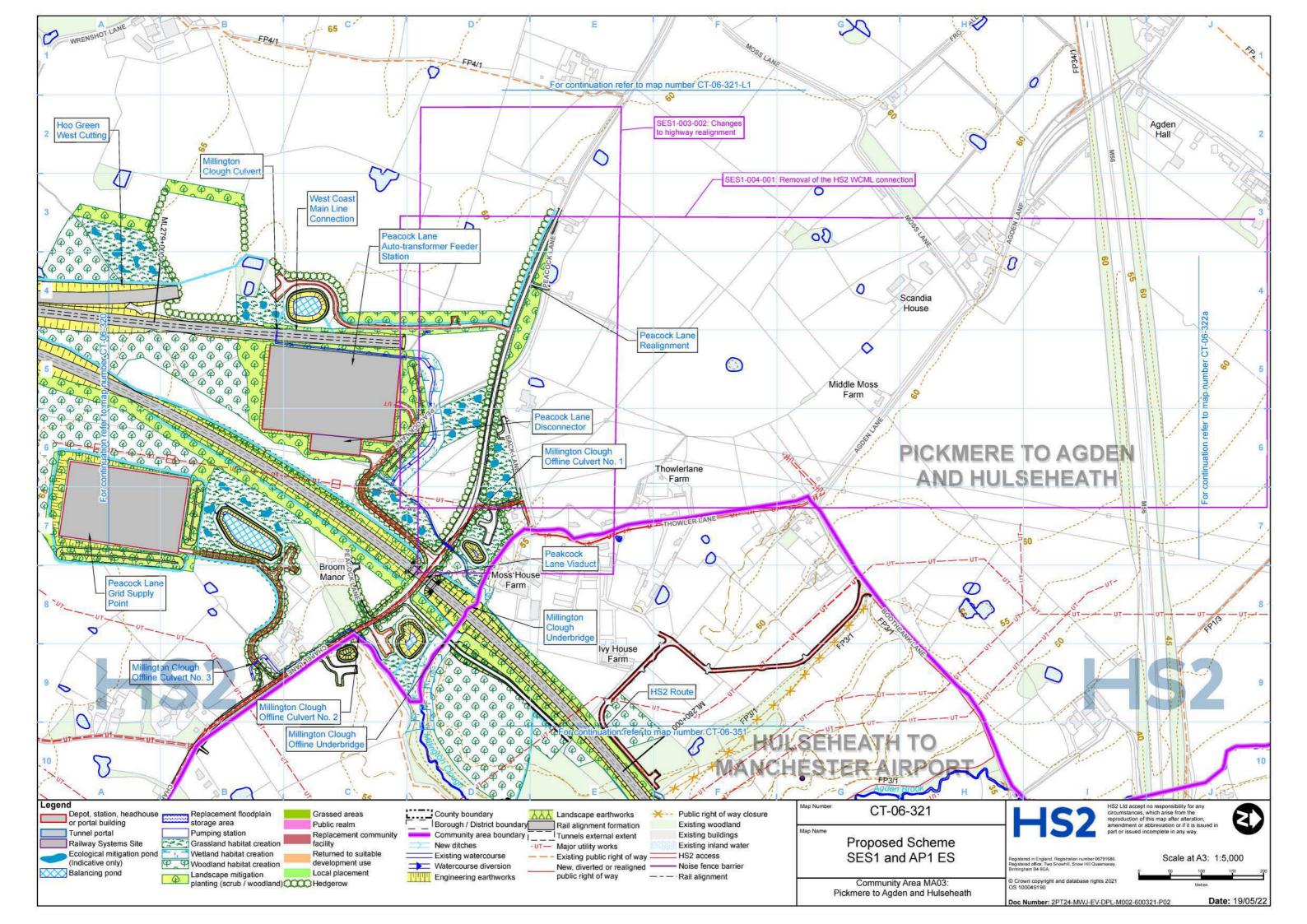


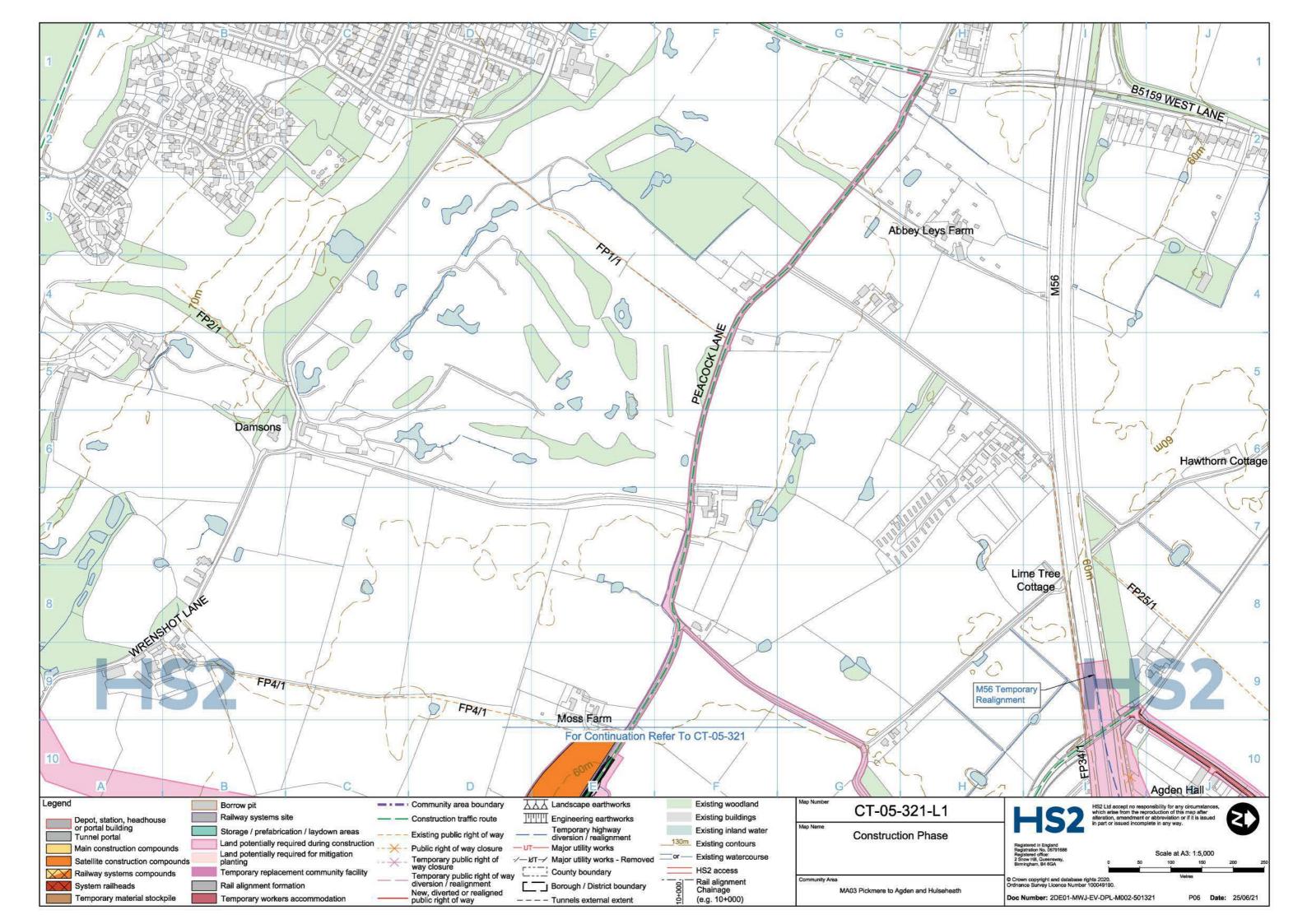


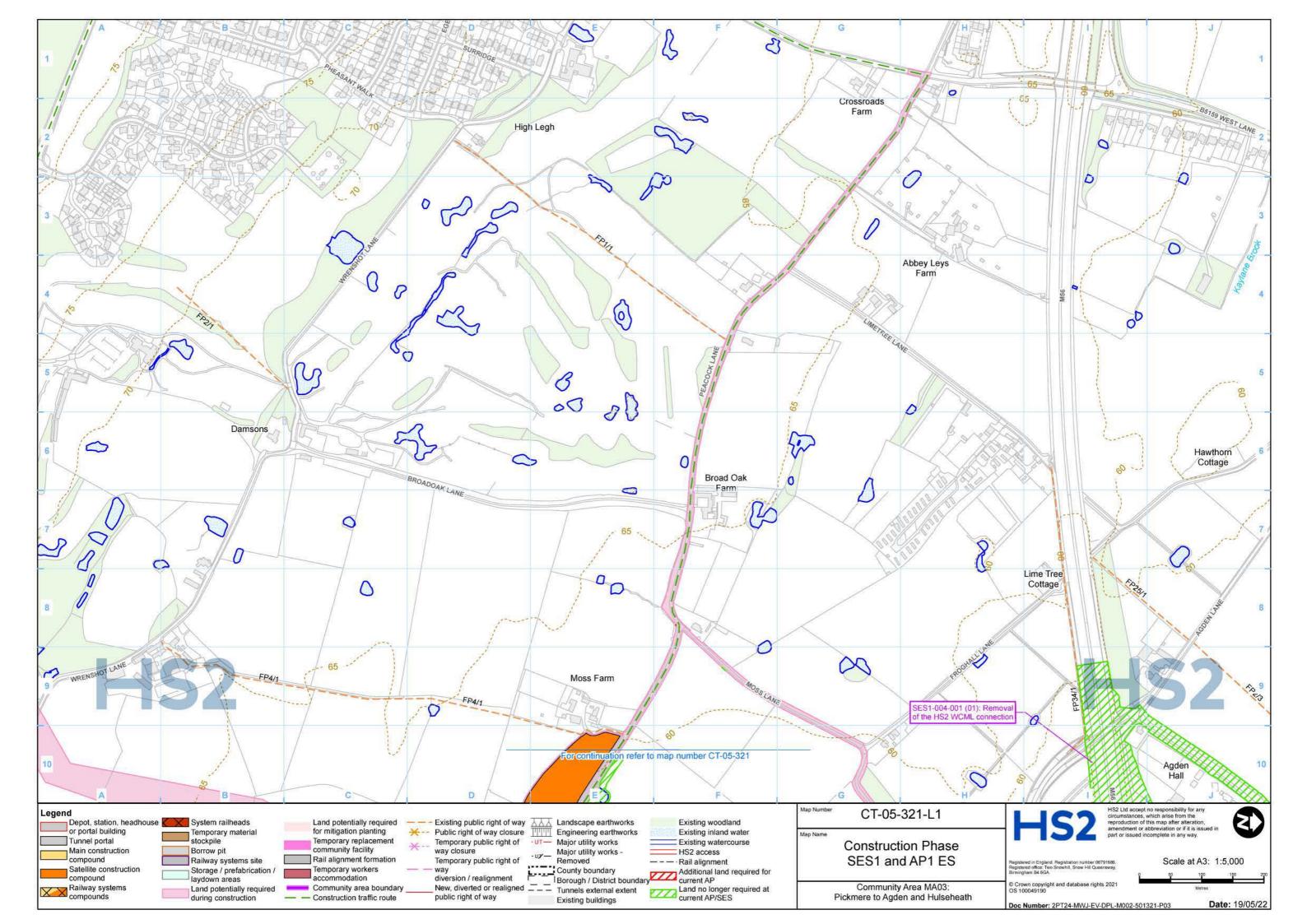


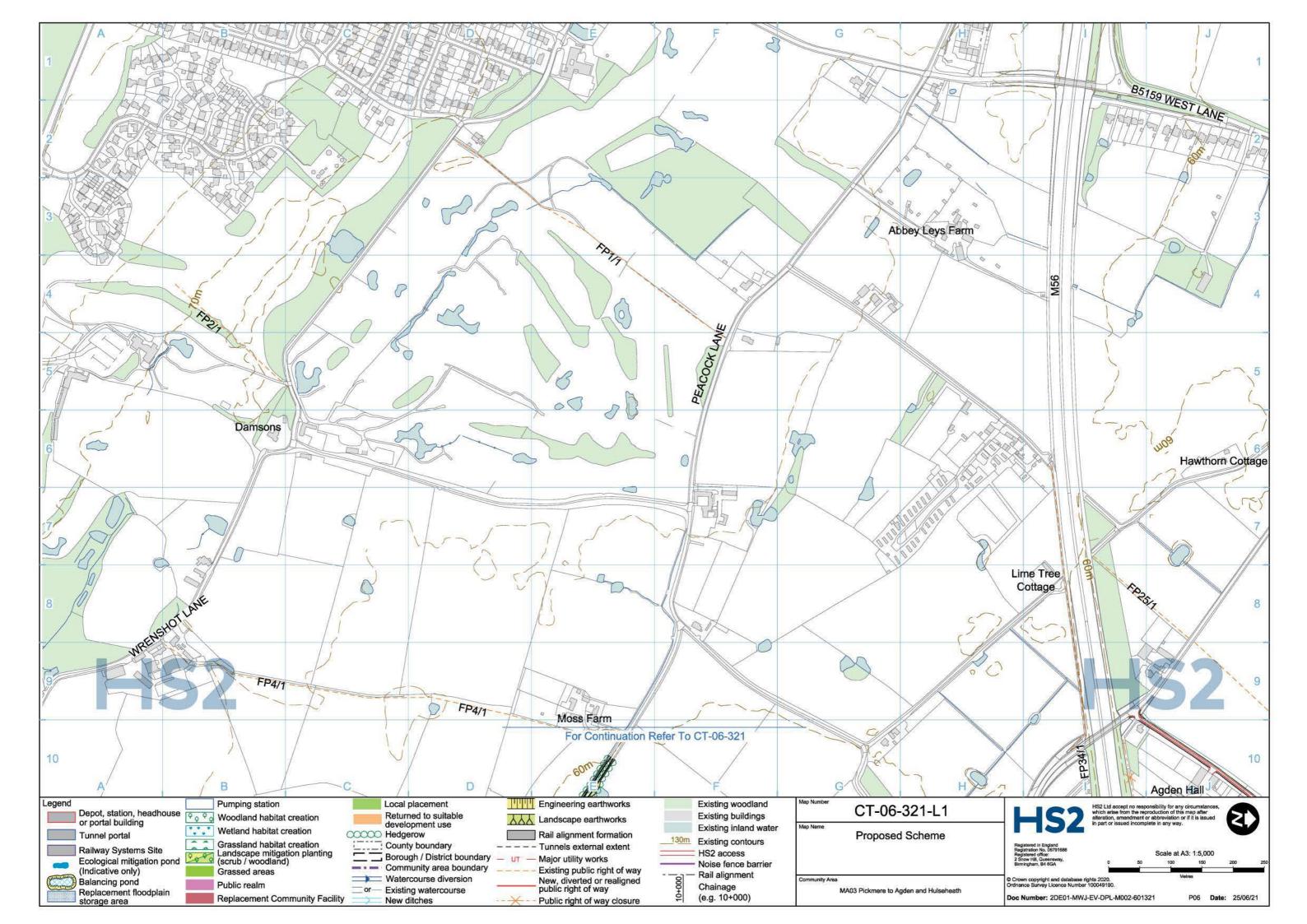


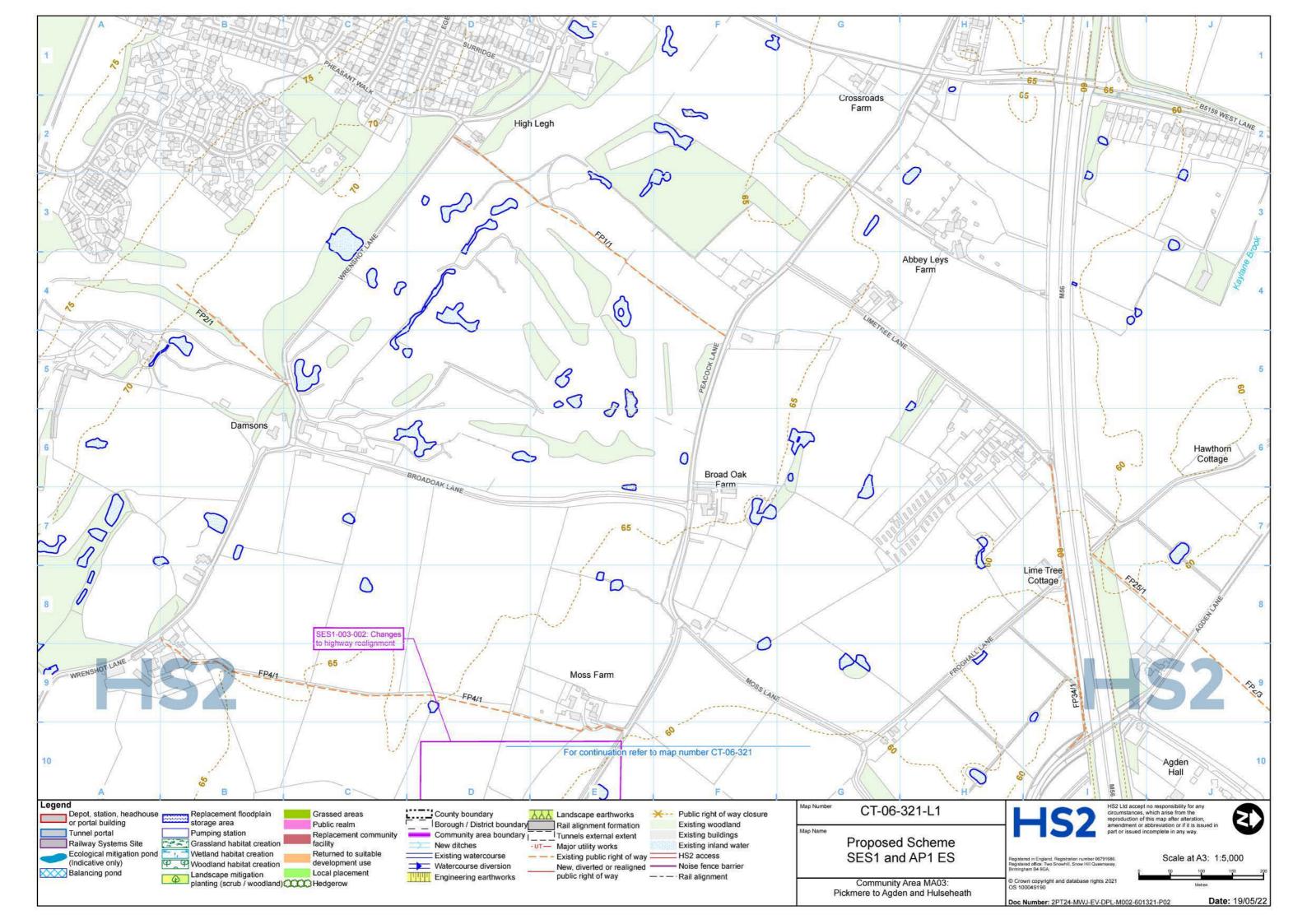


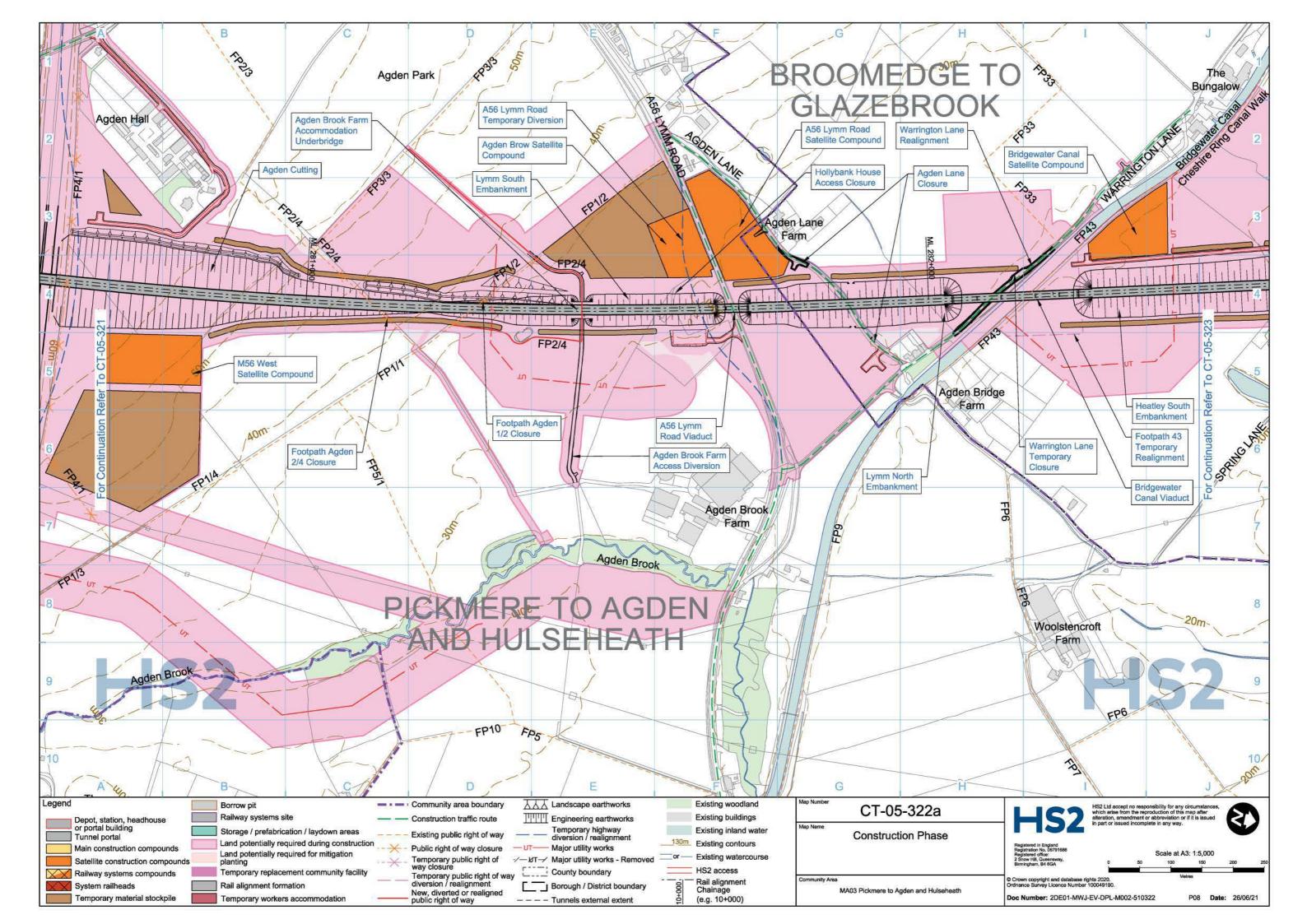


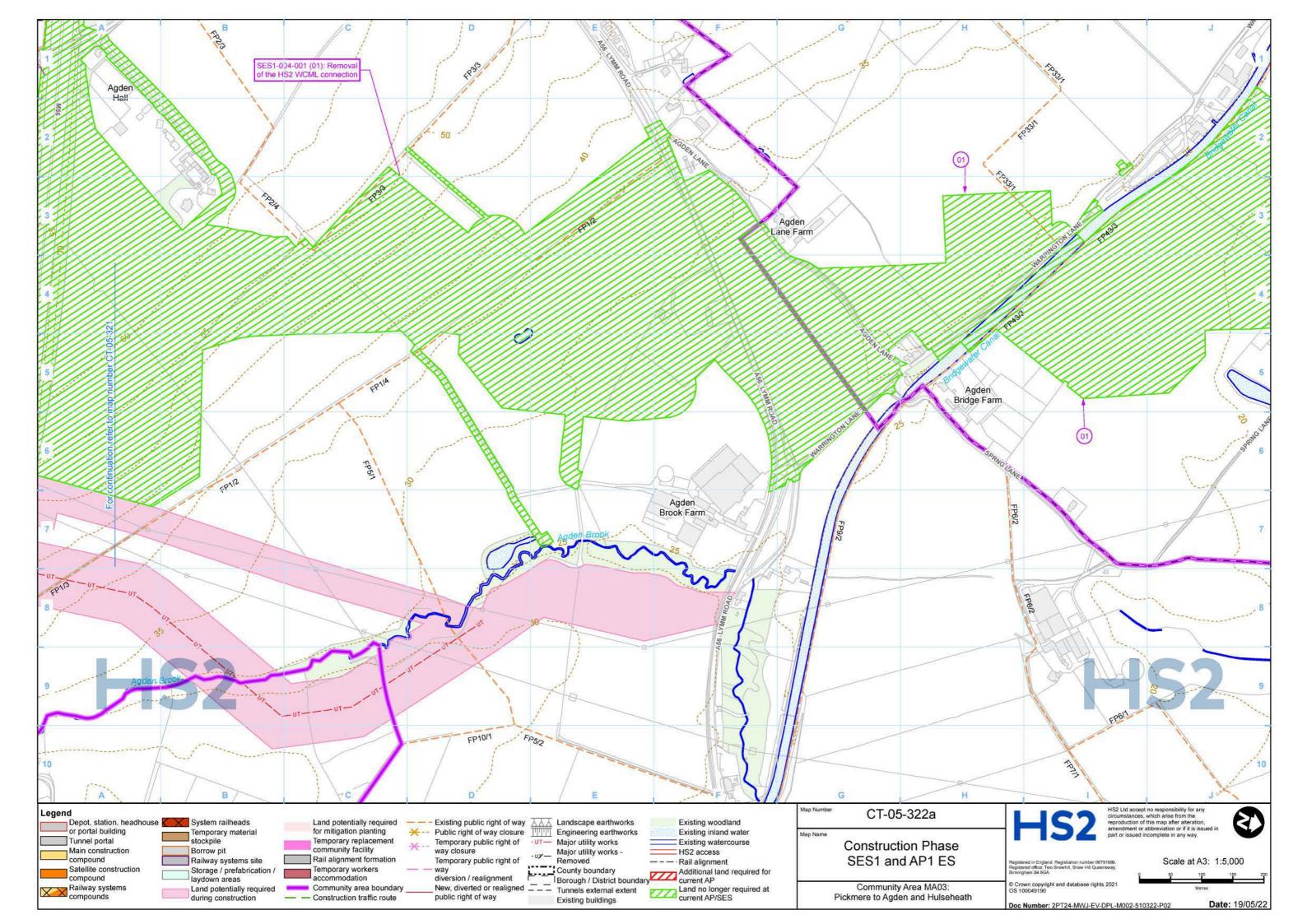


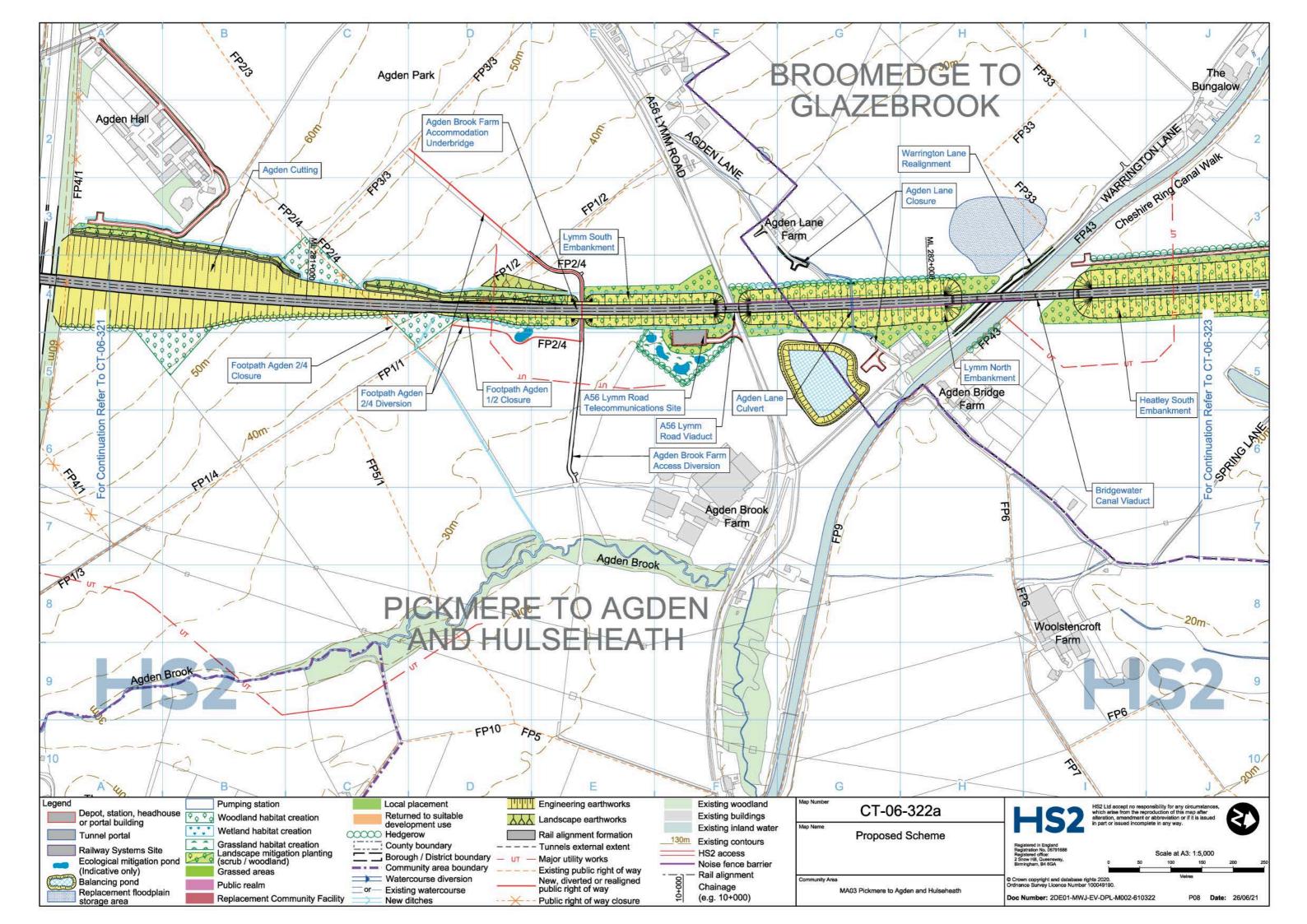


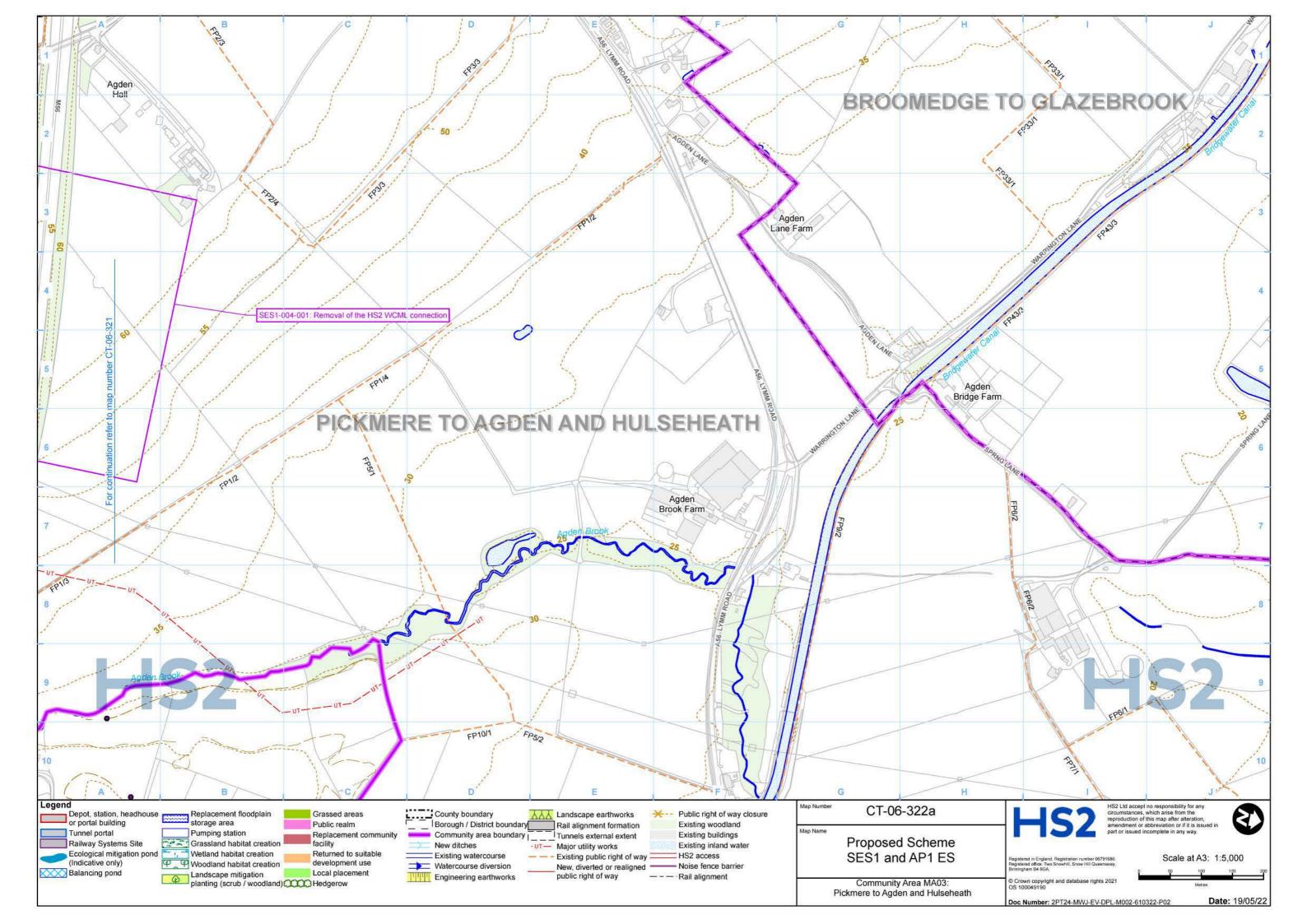












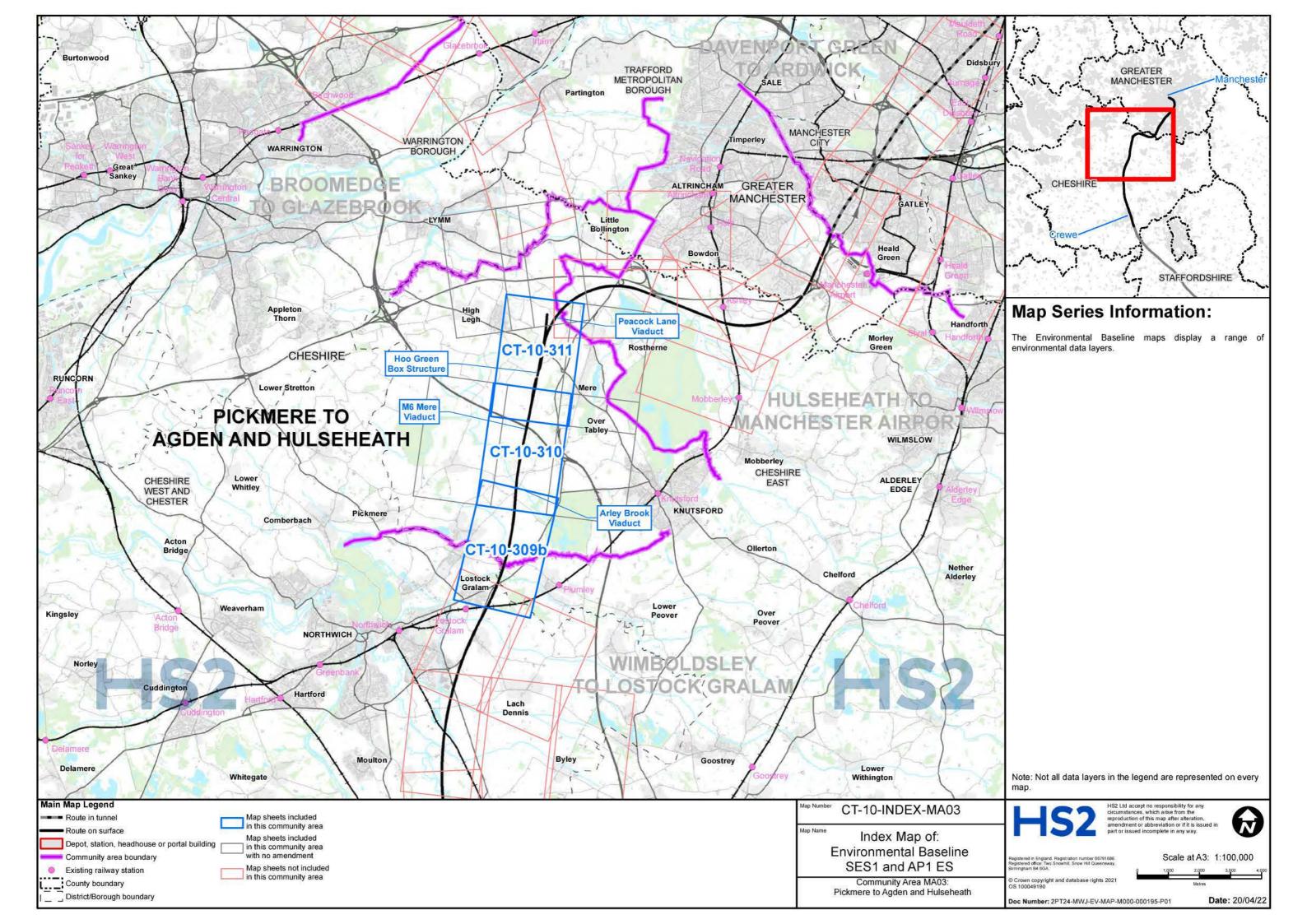
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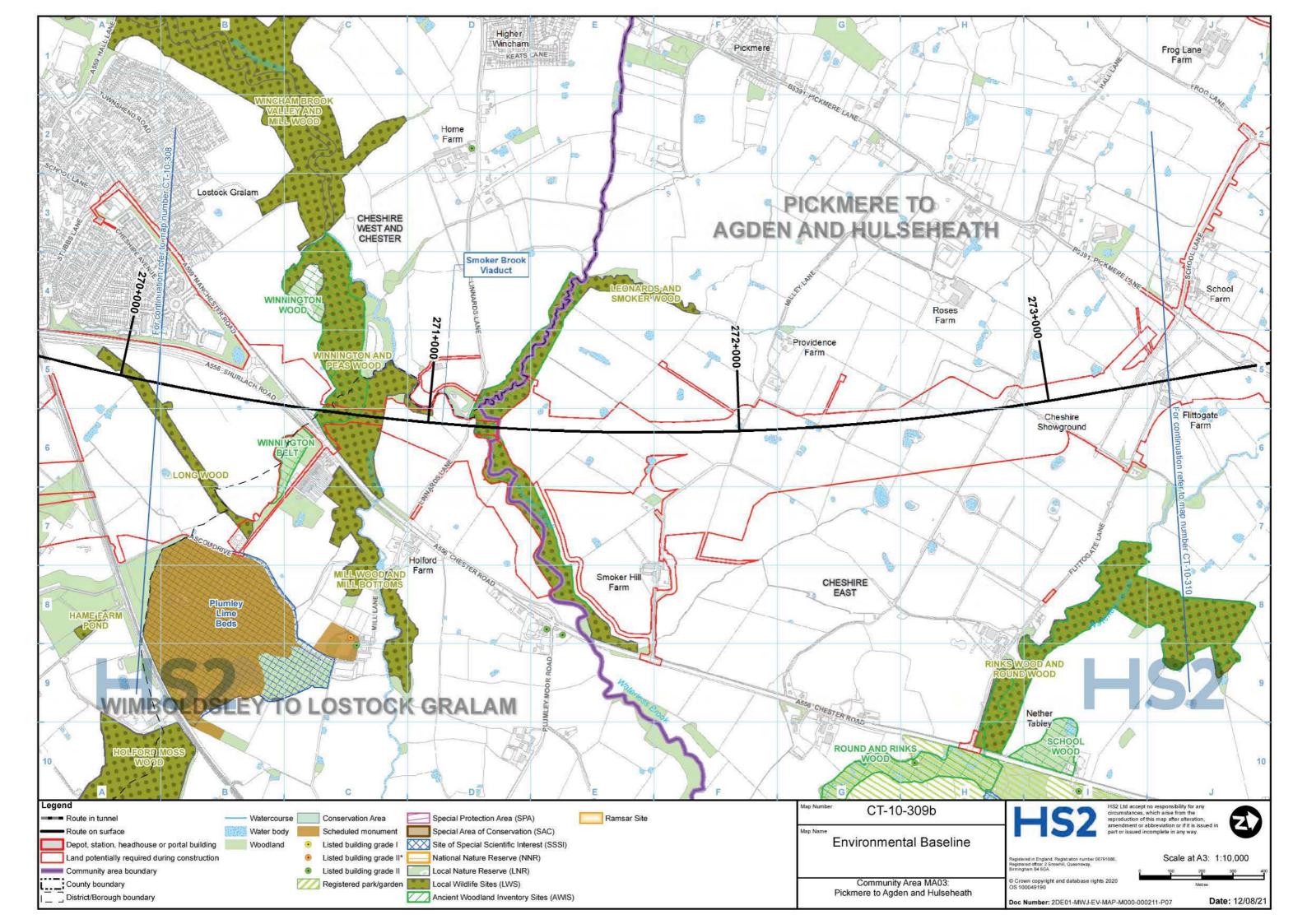
High Speed Rail (Crewe – Manchester)

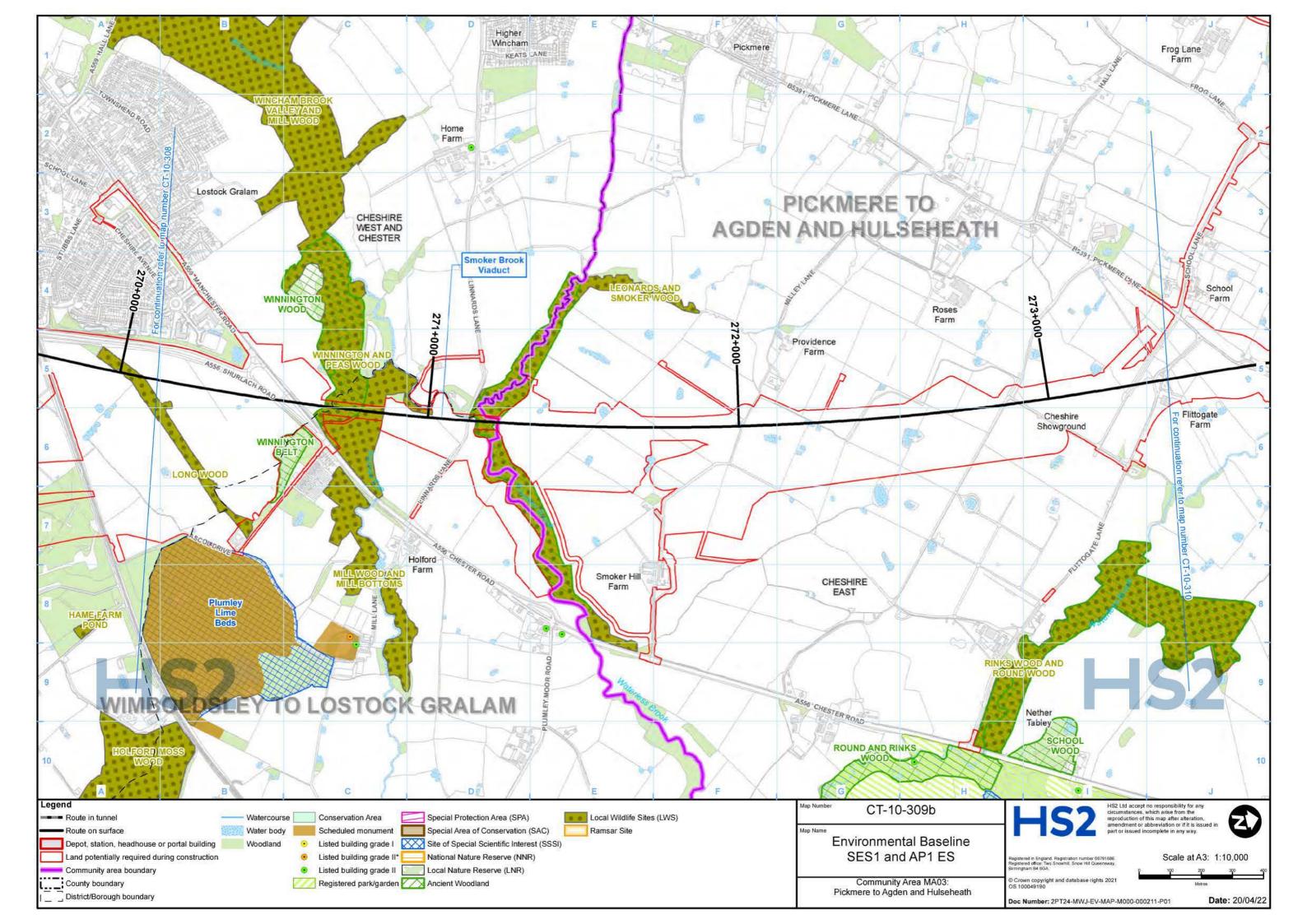
Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement

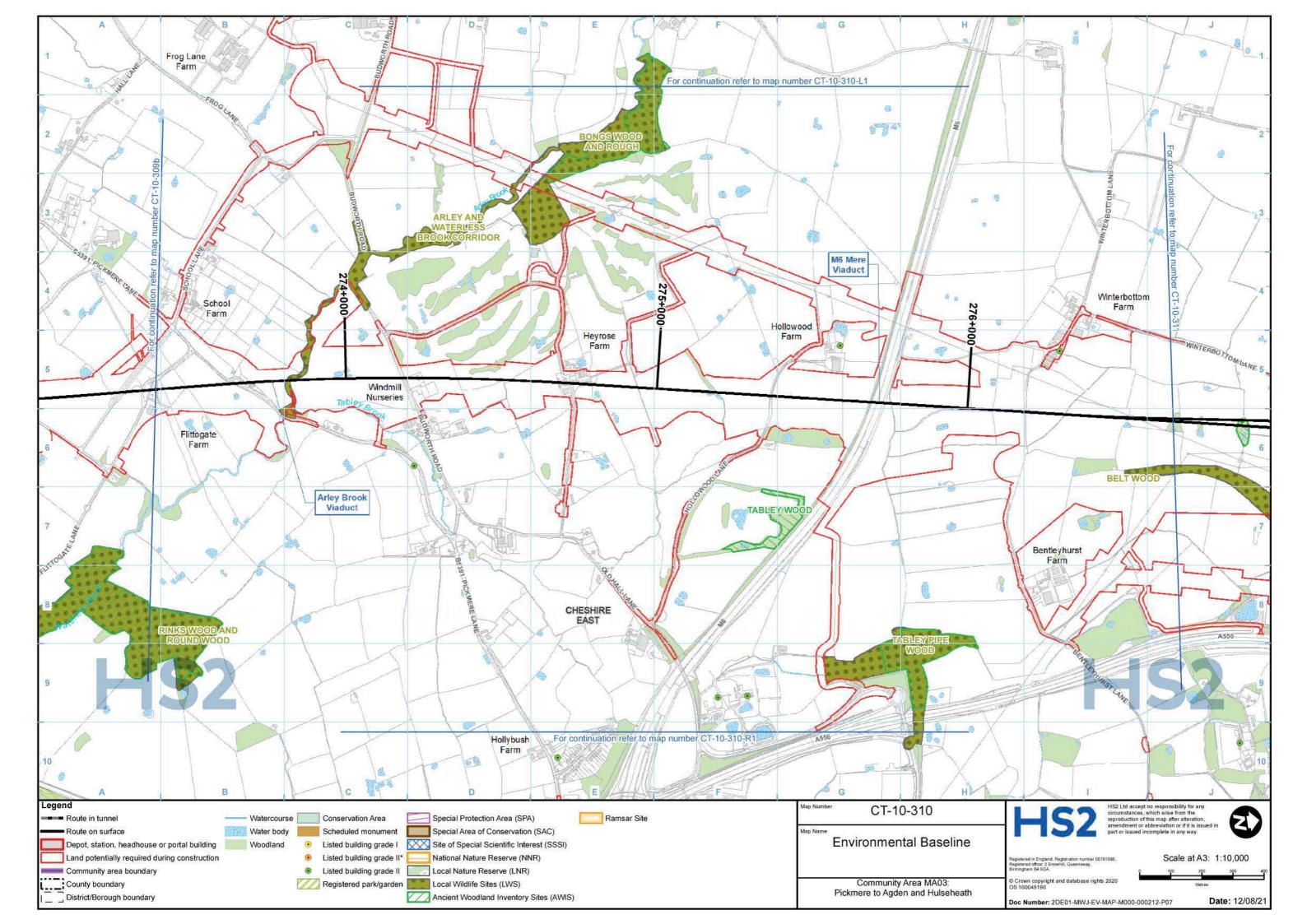
CT-10 – Environmental Baseline

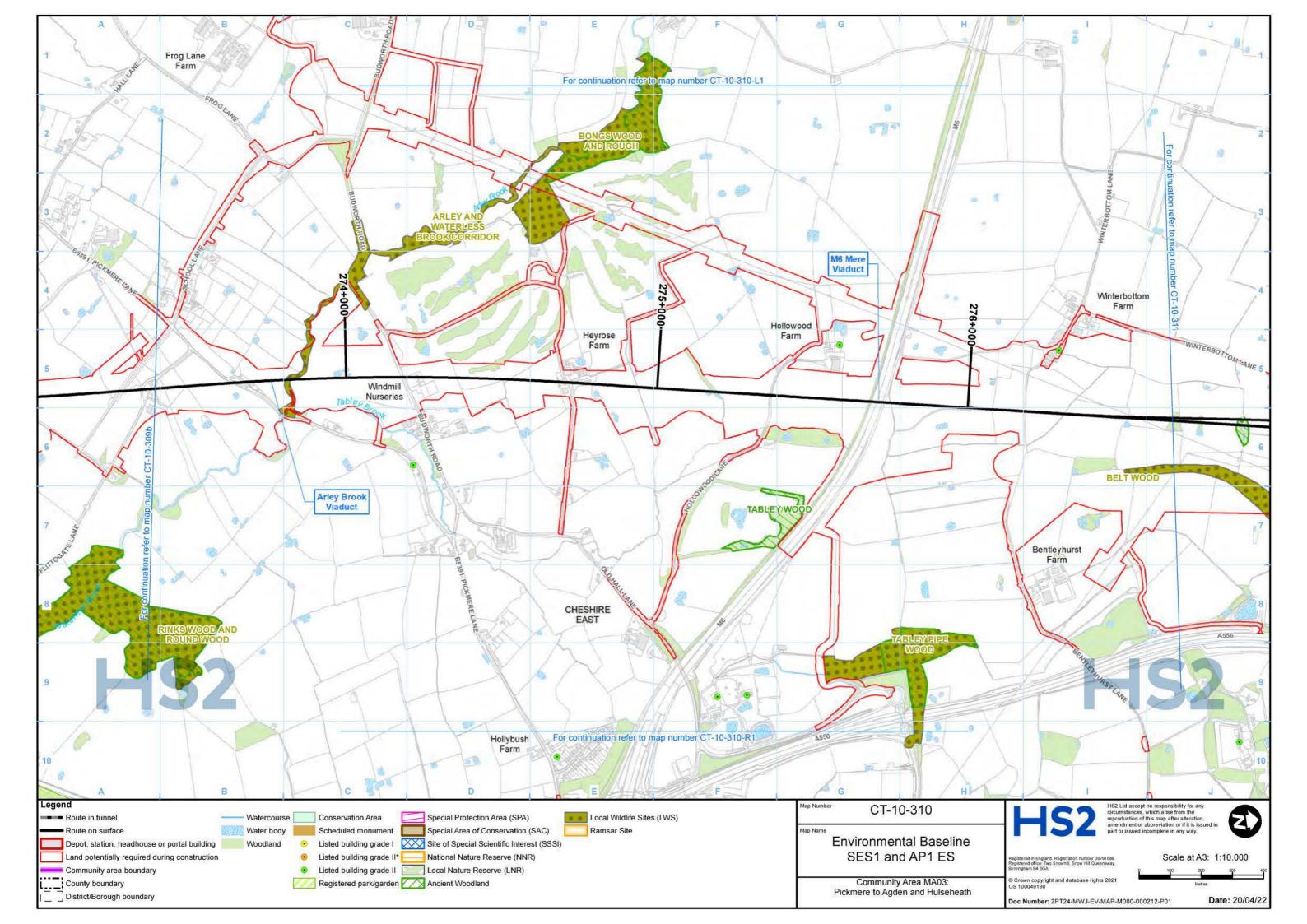


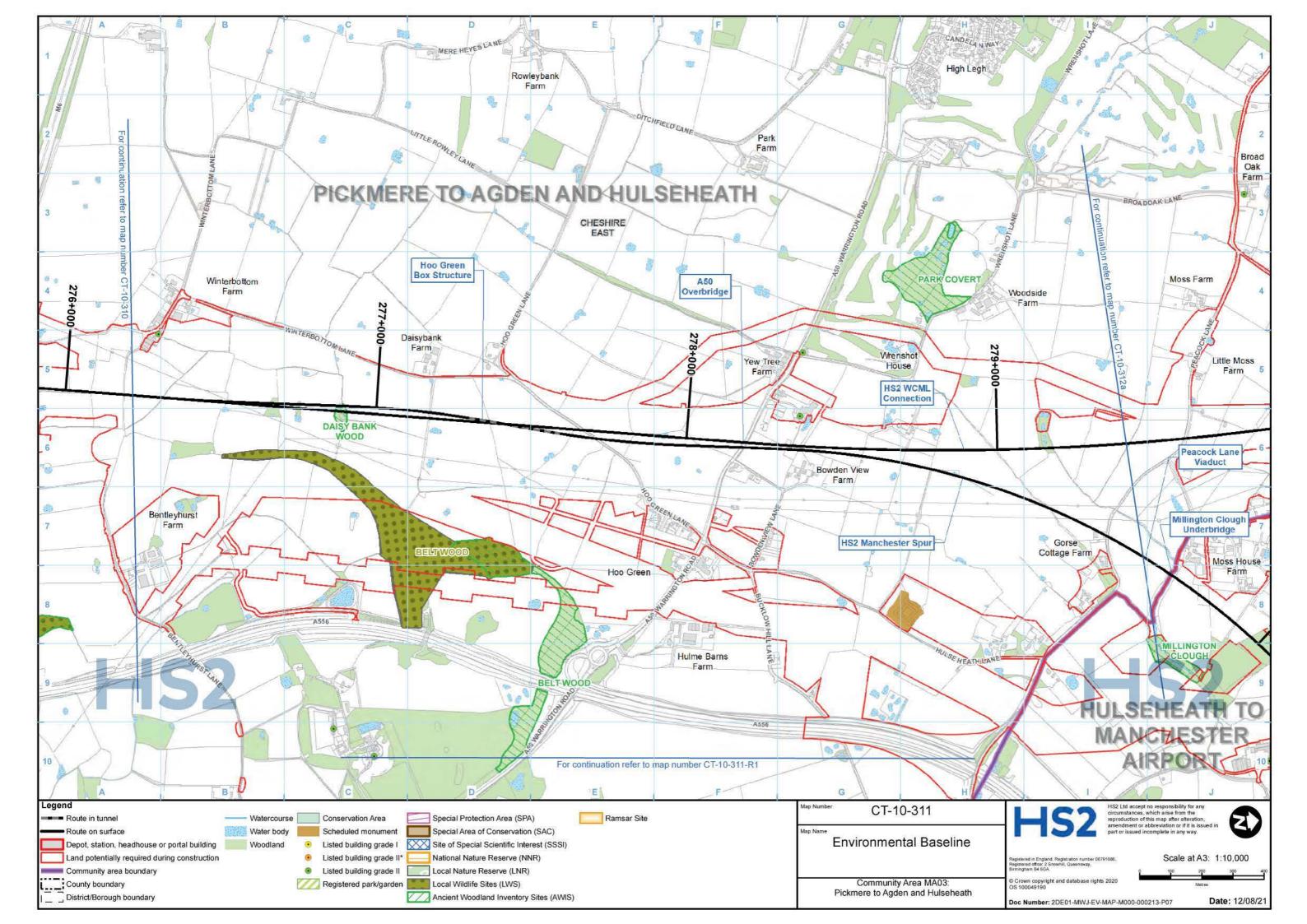
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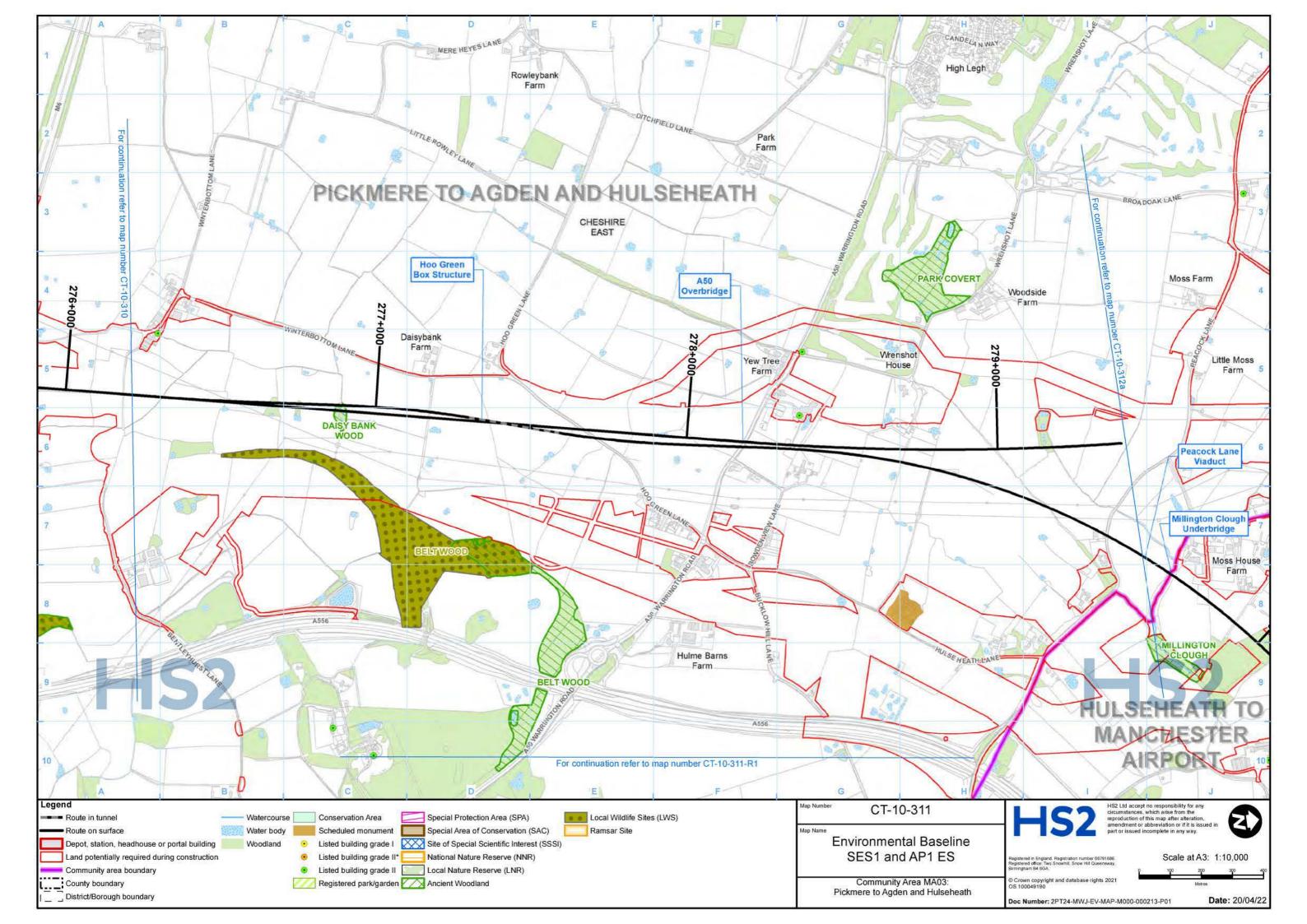














High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement

LV-01 – Photomontages

Viewpoint 316-02-004: view south-west from the A50 Cliff Lane/Warrington Road/ Knutsford Road

This viewpoint is representative of views experienced by residents on the A50 Cliff Lane/Warrington Road/Knutsford Road (Barley Fields, The Kilton Inn and Hulme Barns Farm) and road users.

Current baseline - winter view

Date taken: 30/11/2021 Time taken: 11:15



Winter verifiable photomontage - operation year 1



Camera:

The viewpoint has been taken approximately 580 metres away from the SES1 scheme, Viewpoint location shown on Map LV-08-317a, For full details of the visual assessment at viewpoint 316-02-004 refer to SES1 and AP1 ES Volume 5, Appendix: LV-001-0MA03, Part 3

may look in 2038 (opening year) to help inform the visual impact assessment. The design of the SES1 scheme may be subject to design development in response to consultation. Development of detail design after SES1 submission will not result in any significant adverse change in the environmental effects reported in the assessme Where new planting is proposed, it has been show as immature plants which would mature over time to further integrate the SES1 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.

Approximate GPS co-ordinates ref.	372070.455, 382557.342	Direction of View:	251.9°	
Elevation:	70.79 m AOD	Height of Camera:	1.595m	
116-02-004 Fig. 73 Hume Barns	Map Number LV-01-791	LICO	HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration,	
nt. Hol Green Meed Parm	Man Name		amendment or abbreviation or if it issued in part or issued incomplete in any way.	

Sony aZRIL FFS. Zeiss Loxia 50mm f/2.0 lens

Verifiable Photomontage Operation Year 1 - Winter Viewpoint 316-02-004

Community Area MA03: Pickmere to Agden and Hulseheath

Doc Number: 2PT24-MWJ-EV-MAP-M000-004139-P01

Date: Jan 2022

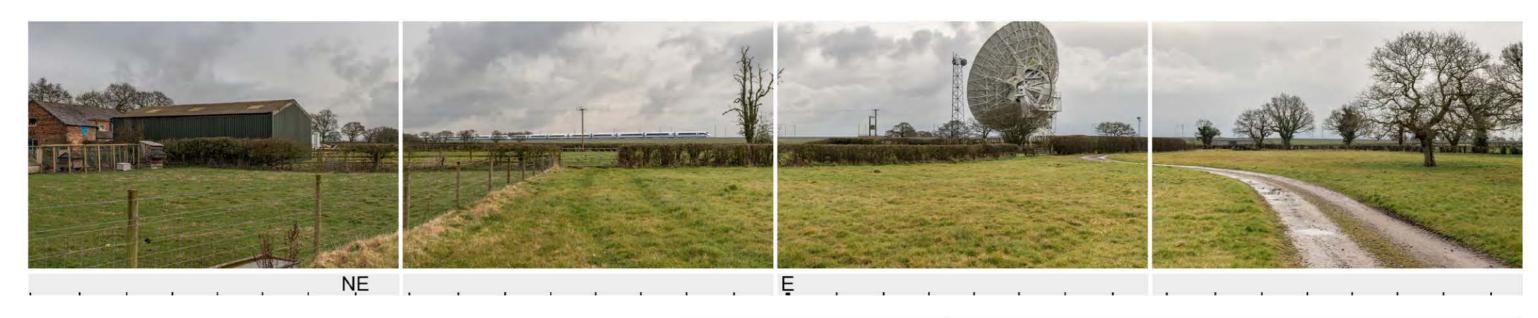
Viewpoint 313-02-006: view east from Footpath Pickmere 5/1 and Providence Farm

This viewpoint is representative of views experienced by residents of Providence Farm, Roses Farm and Dunholme Farm and users of Footpath Pickmere 5/1.

Winter view (baseline)



Winter verifiable photomontage - operation year 1



Camera:

The viewpoint has been taken approximately 264 metres away from the AP1 scheme, Viewpoint location shown on Map LV-08-313b. For full details of the visual assessment at viewpoint 313-02-006 refer to SES1 and AP1 ES Volume 5, Appendix: LV-001-0MA03, Part 4.

his 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 invironmental 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.





Verifiable Photomontage Operation Year 1 - Winter Viewpoint 313-02-006

> Community Area MA03: Pickmere to Agden and Hulseheath

Doc Number: 2PT24-MWJ-EV-MAP-M000-001866 P01.3

Date: March 2022

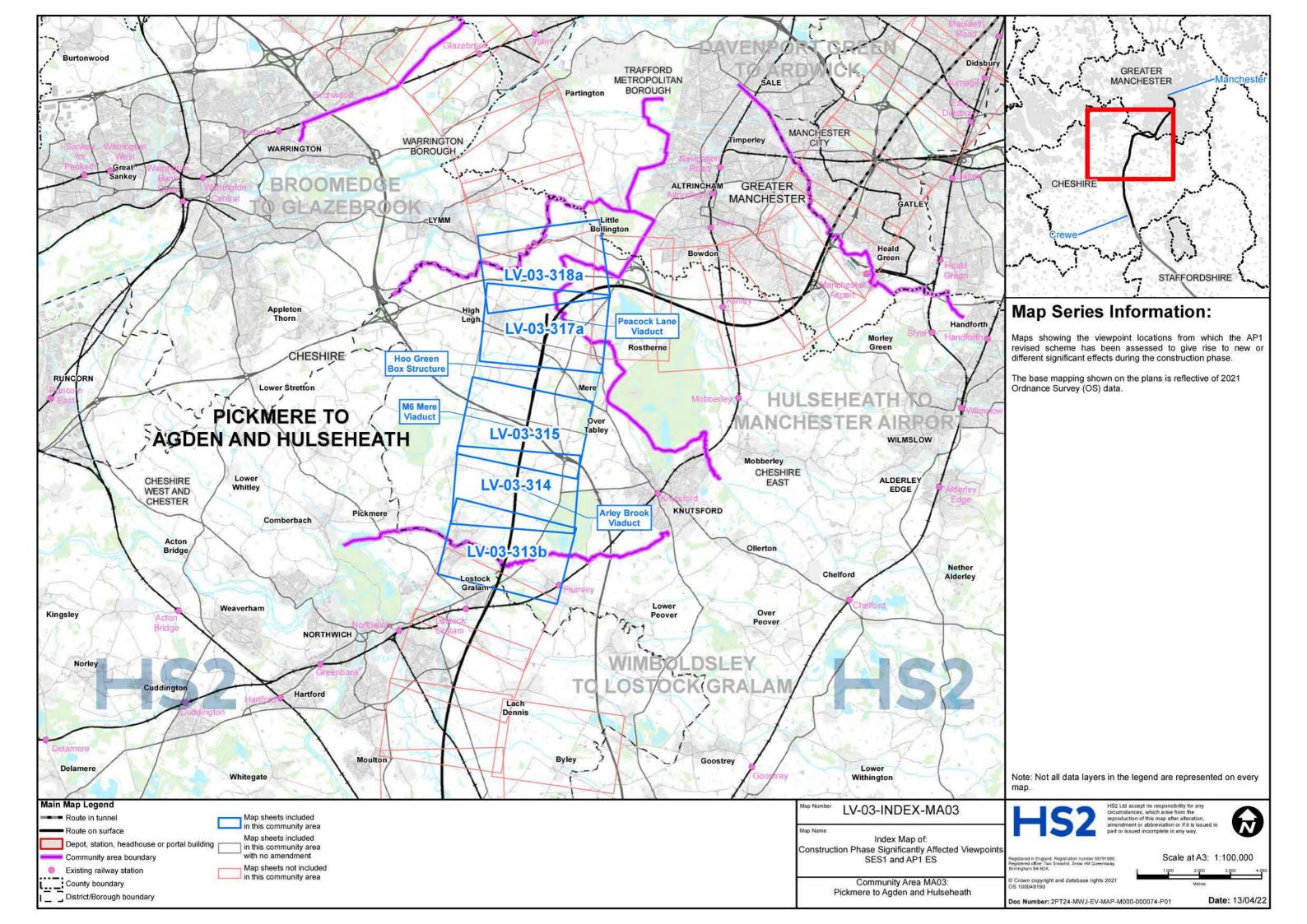


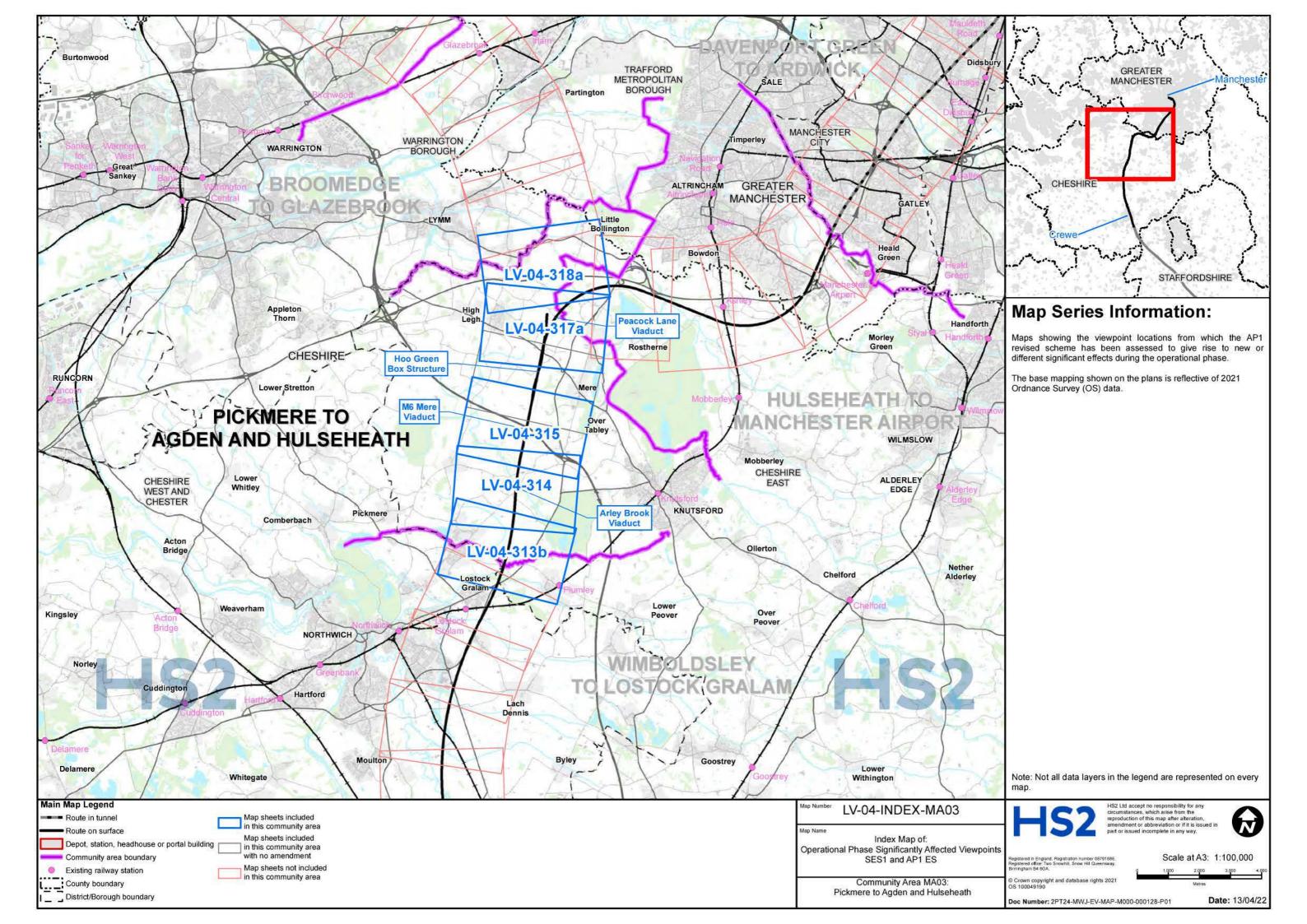
High Speed Rail (Crewe – Manchester)

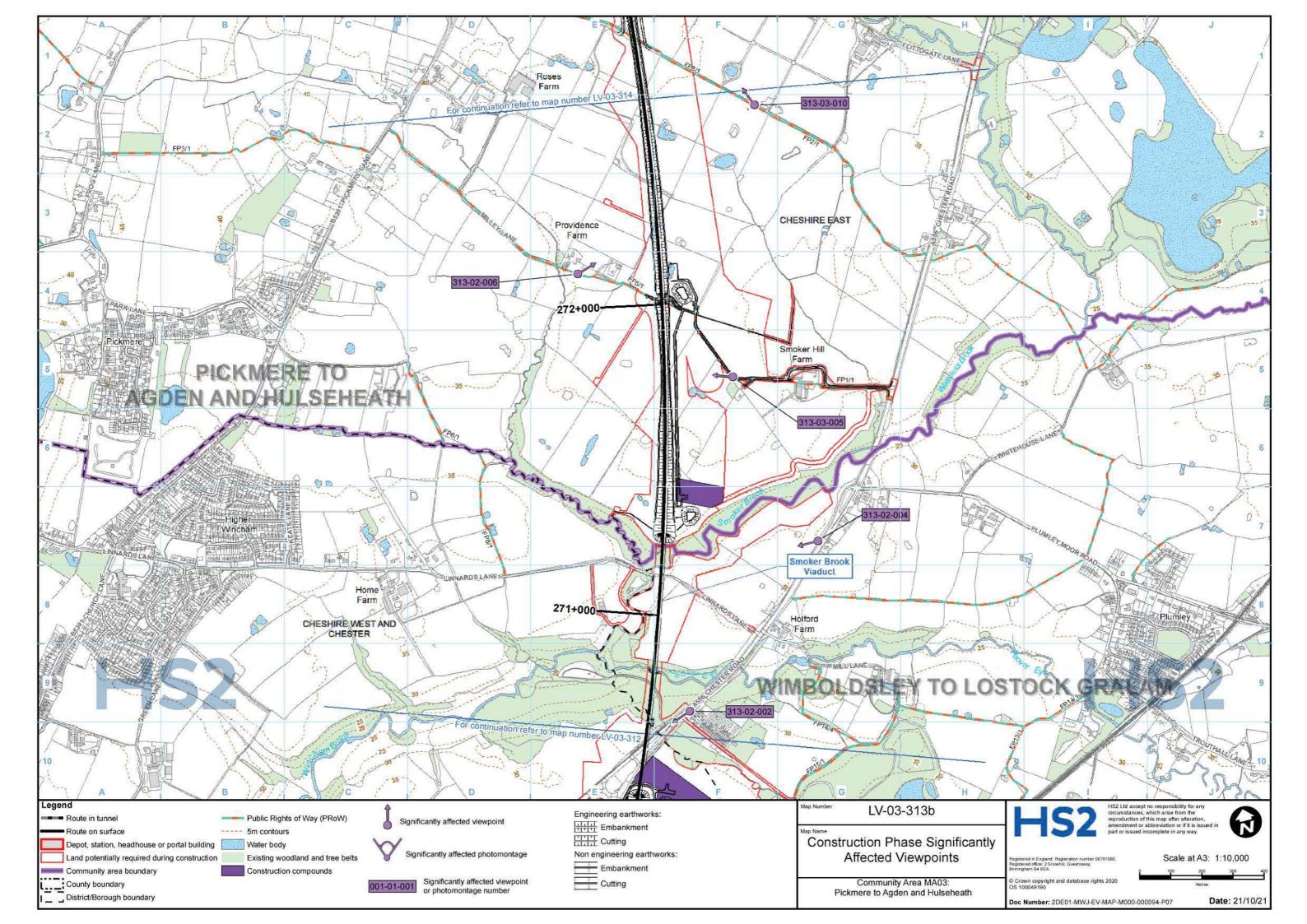
Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement

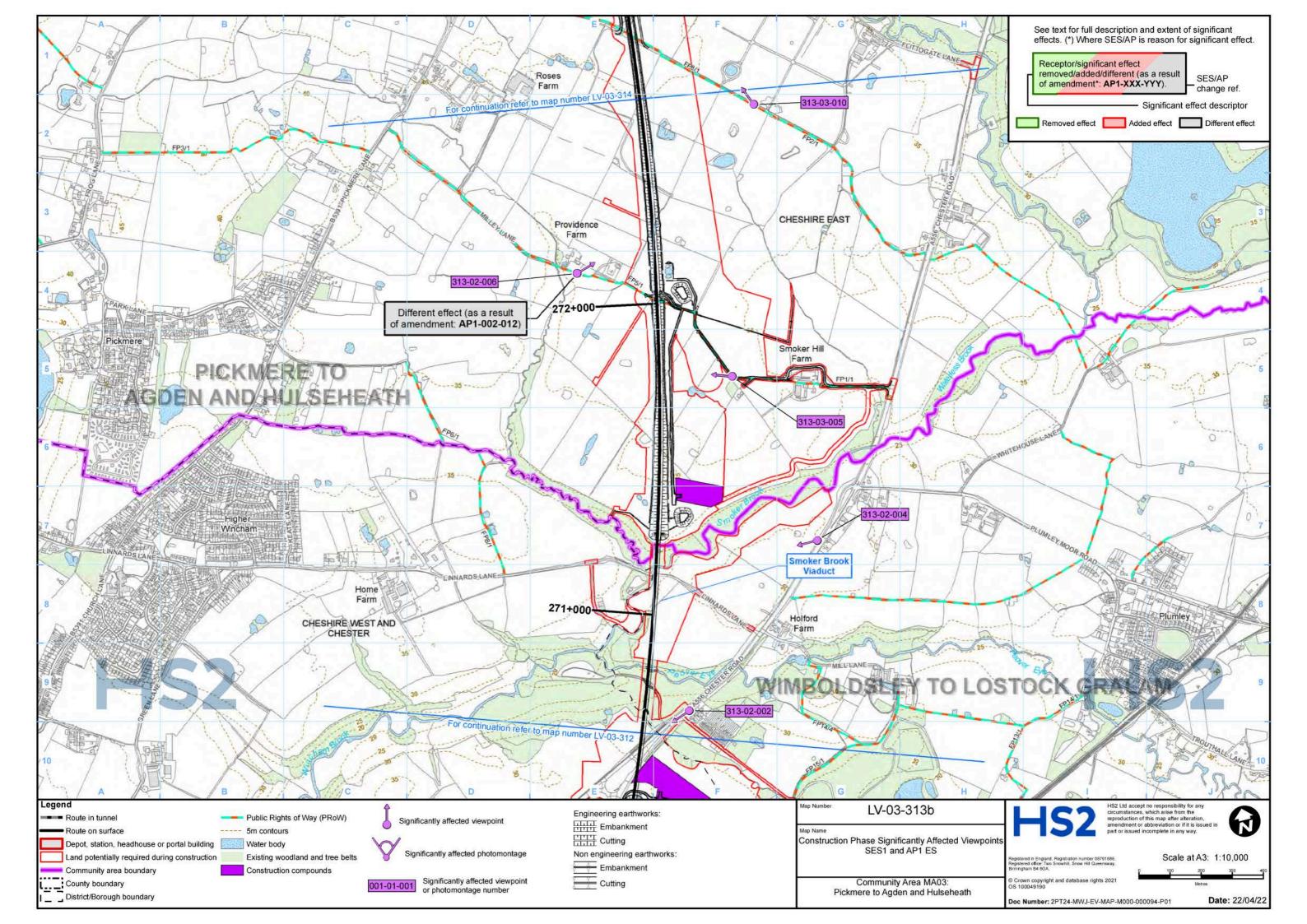
LV-03 – Construction Phase Significantly Affected Viewpoints

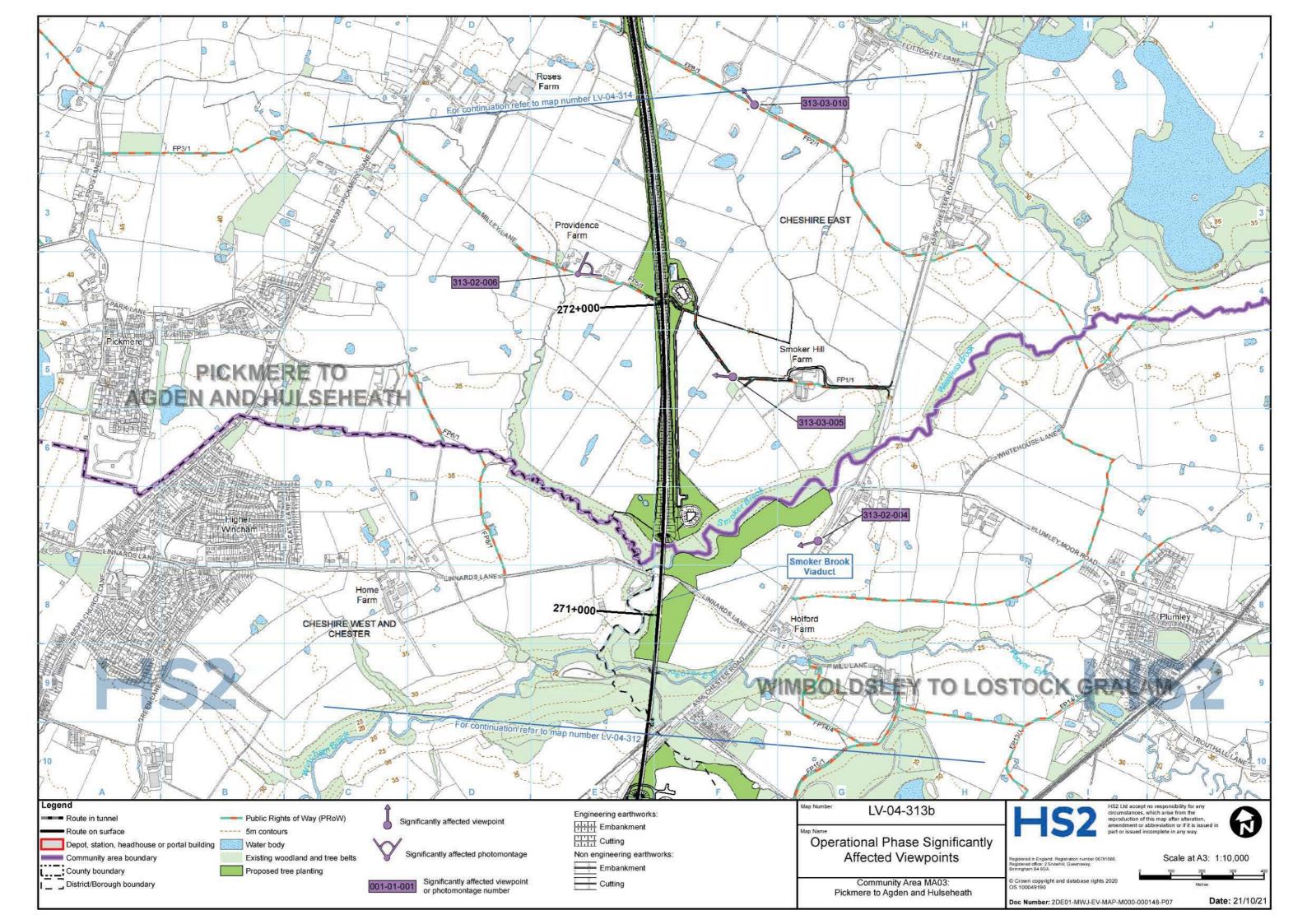
LV-04 – Operational Phase Significantly Affected Viewpoints

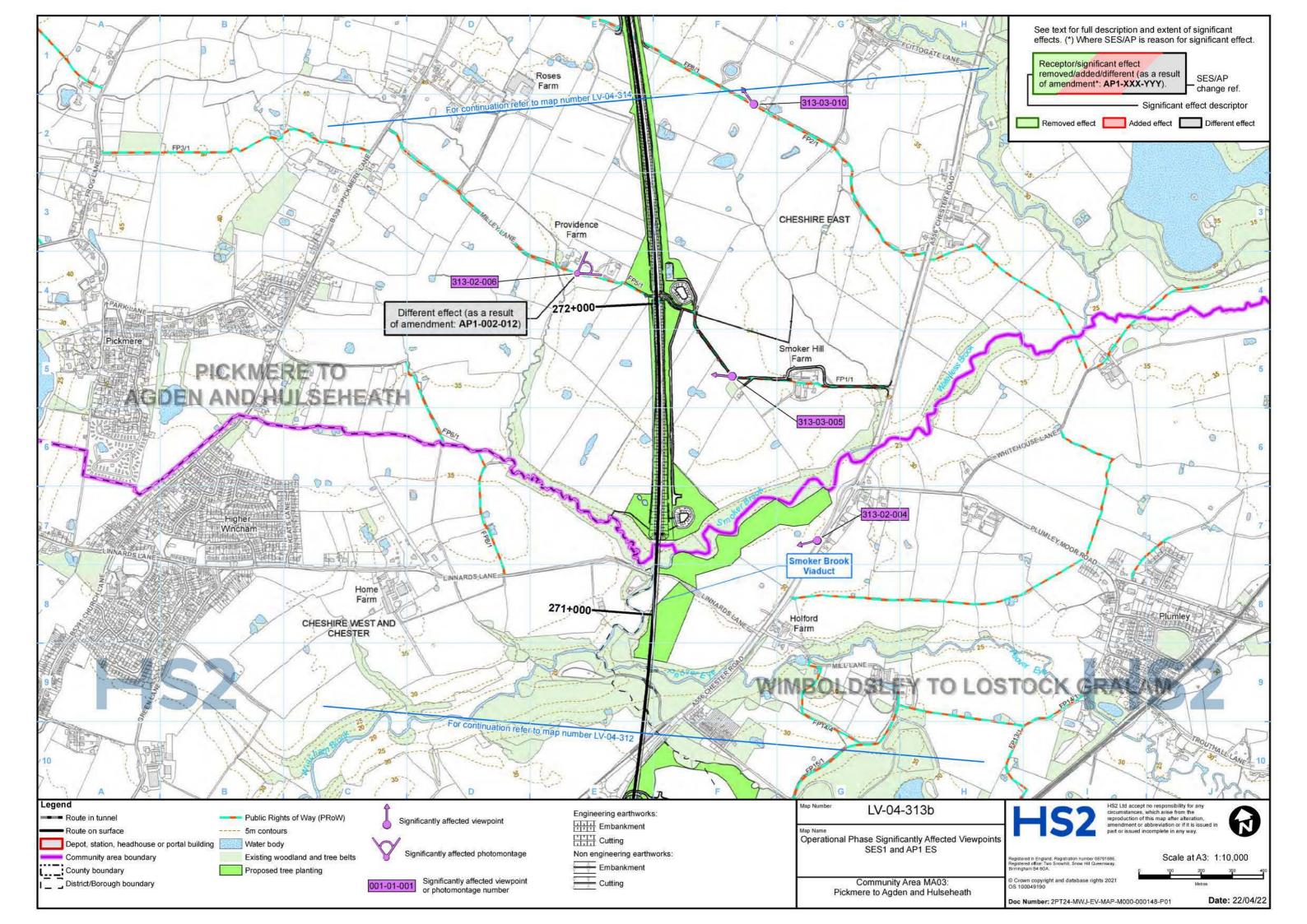


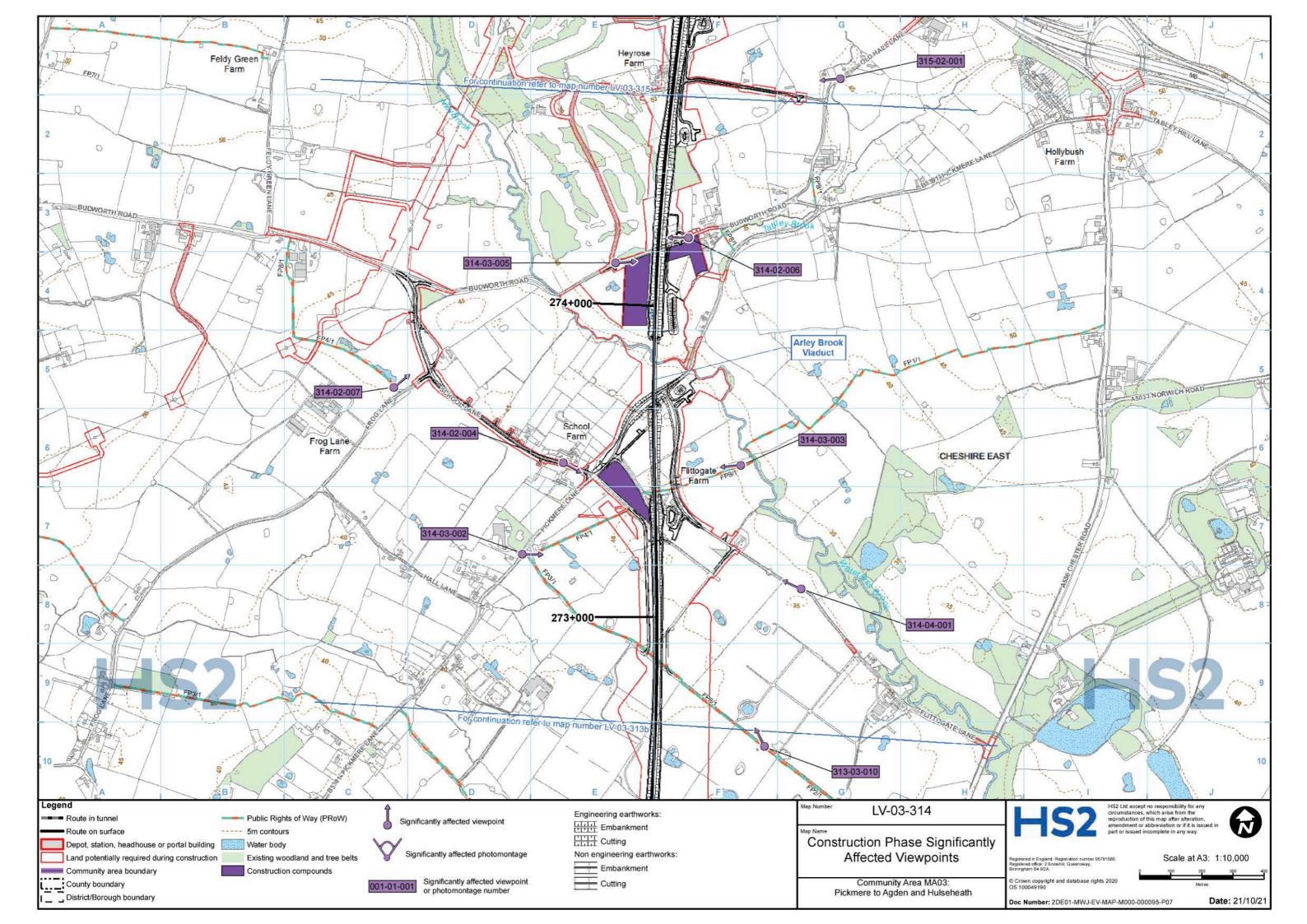


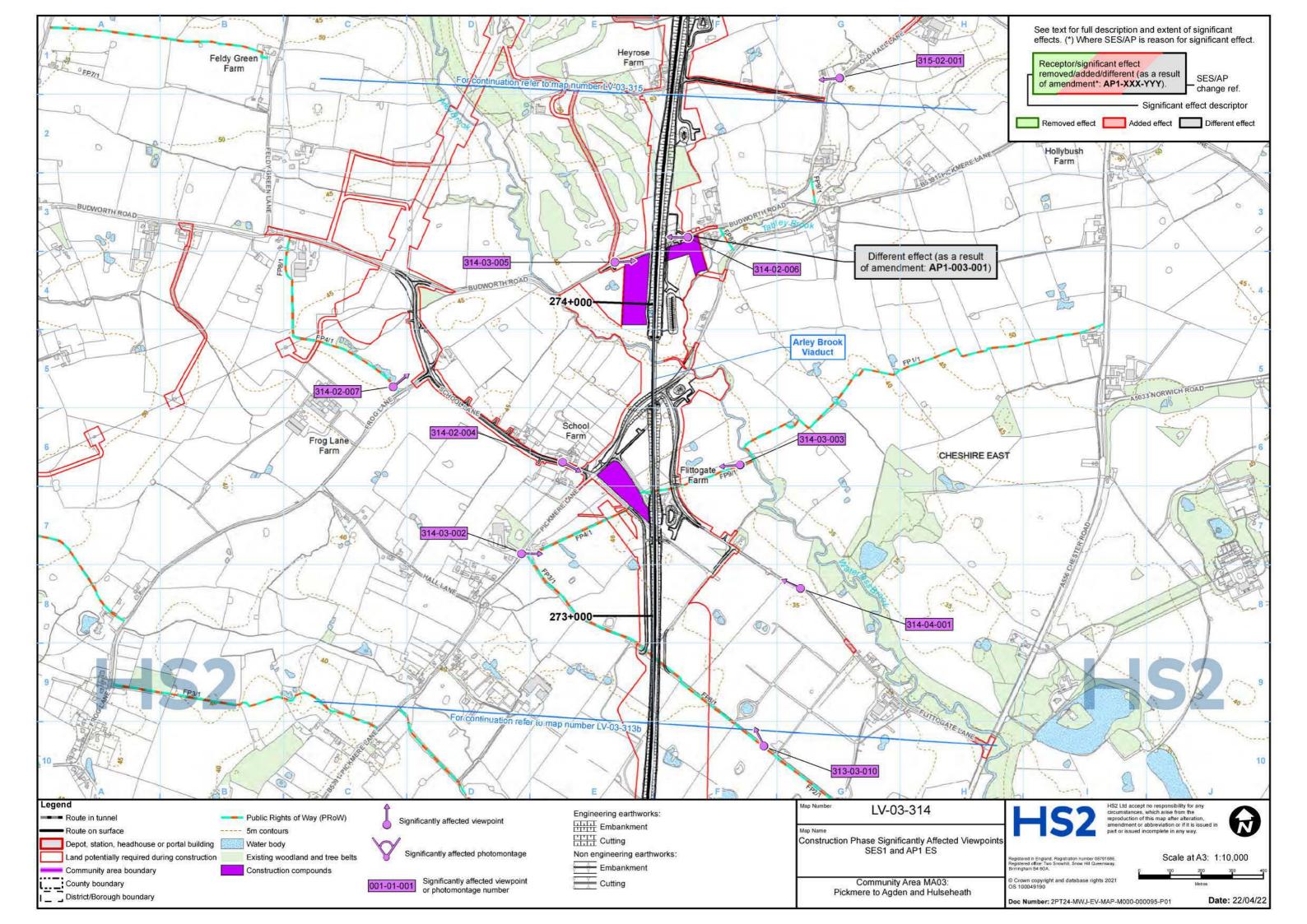


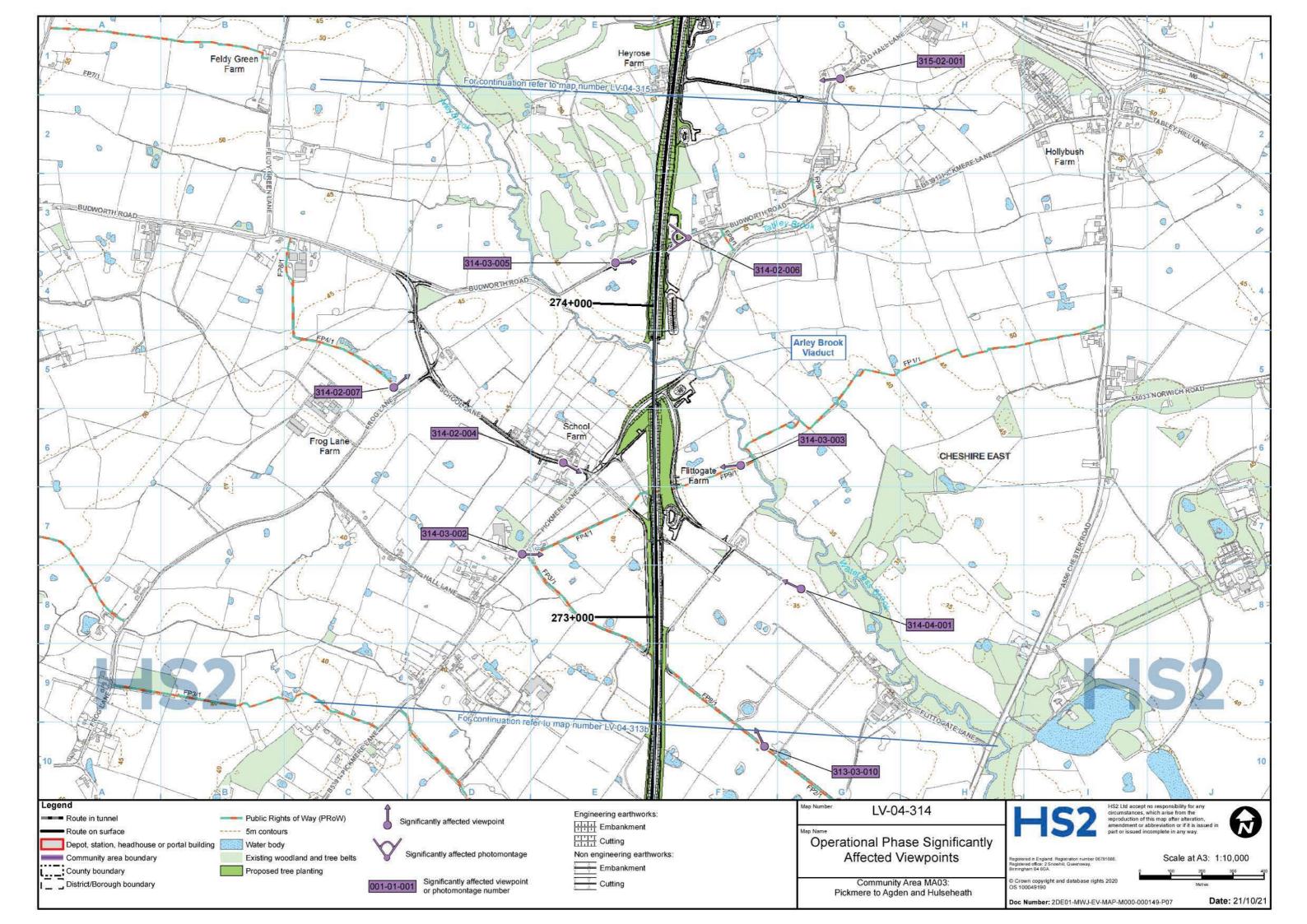


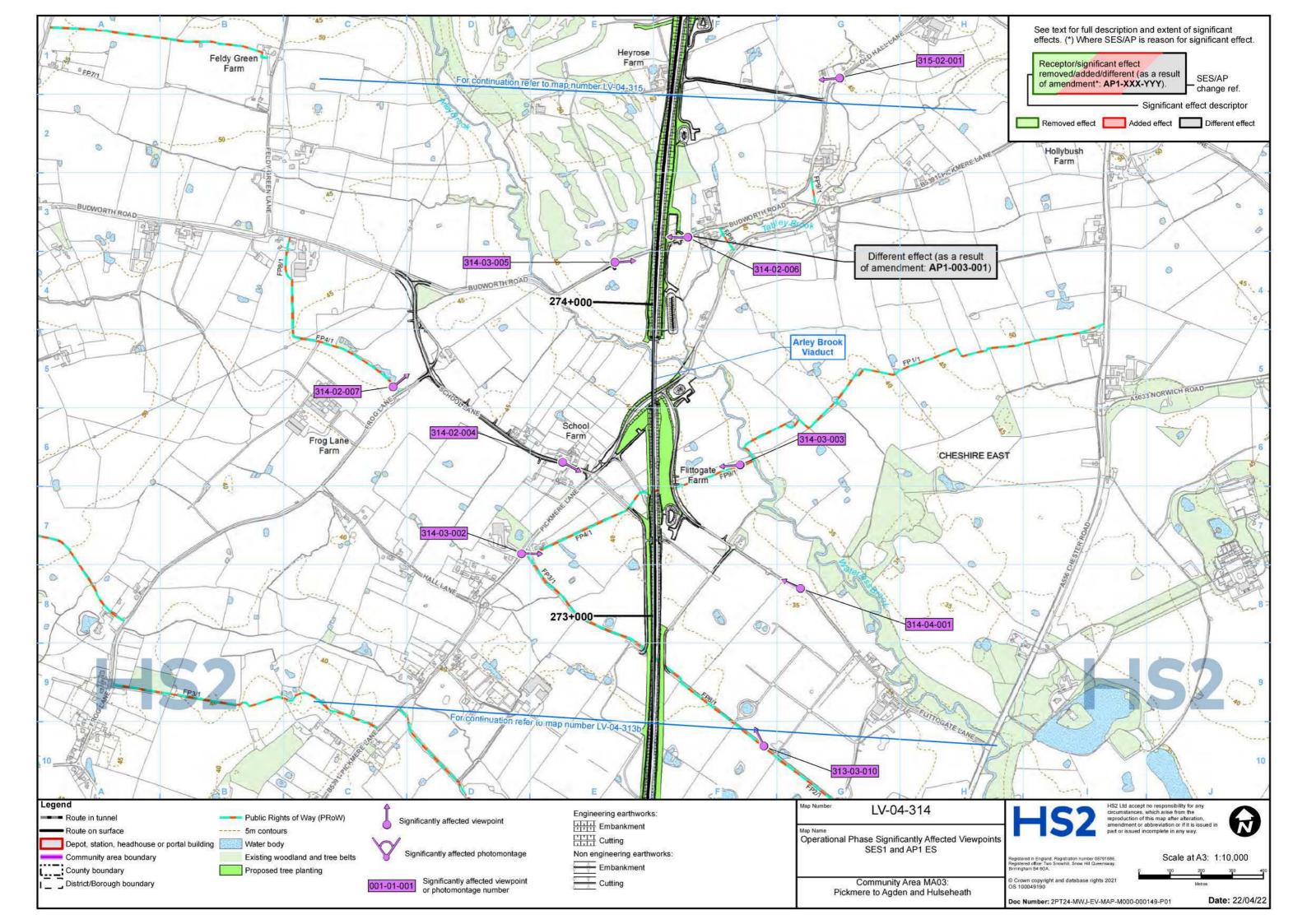


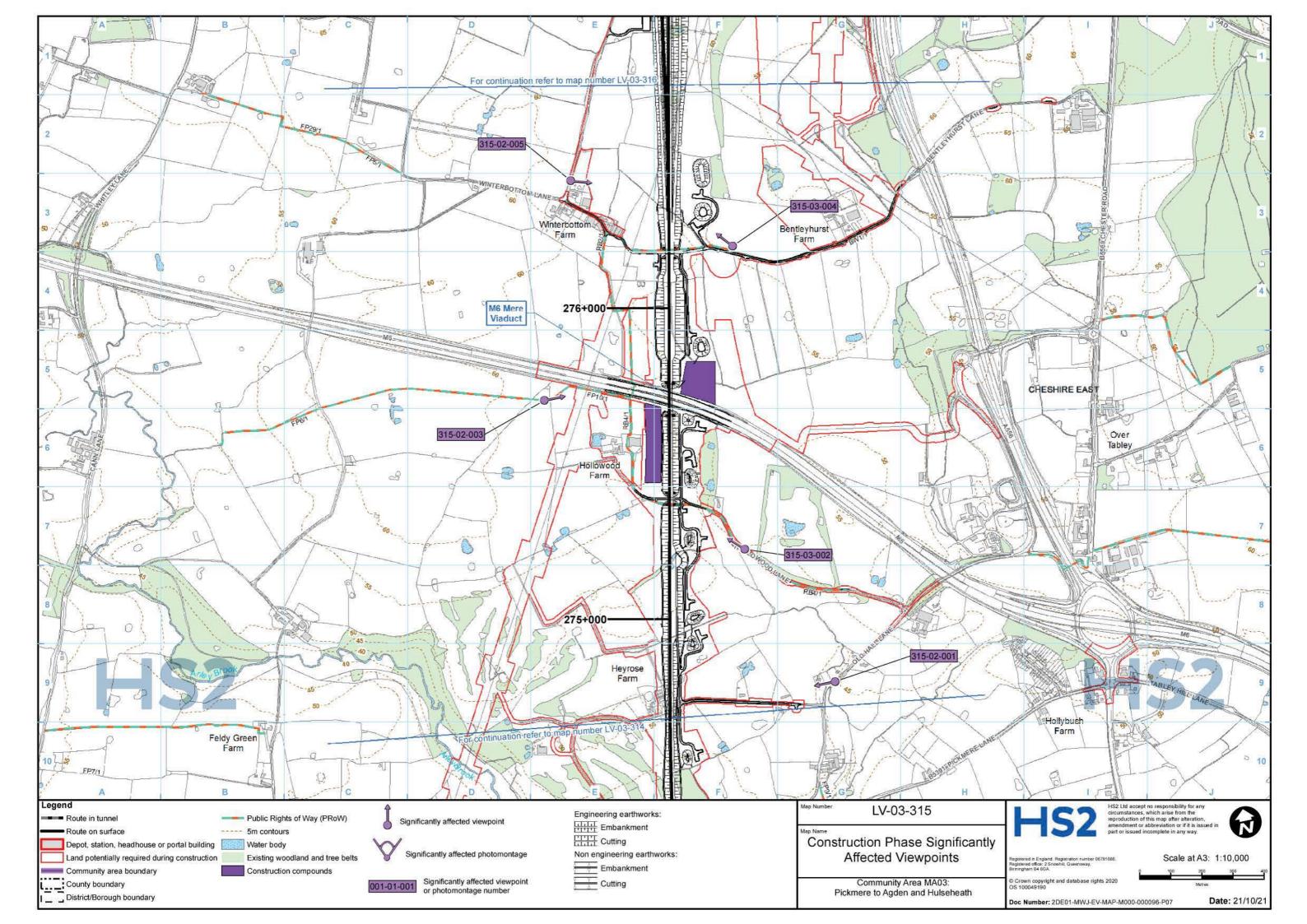


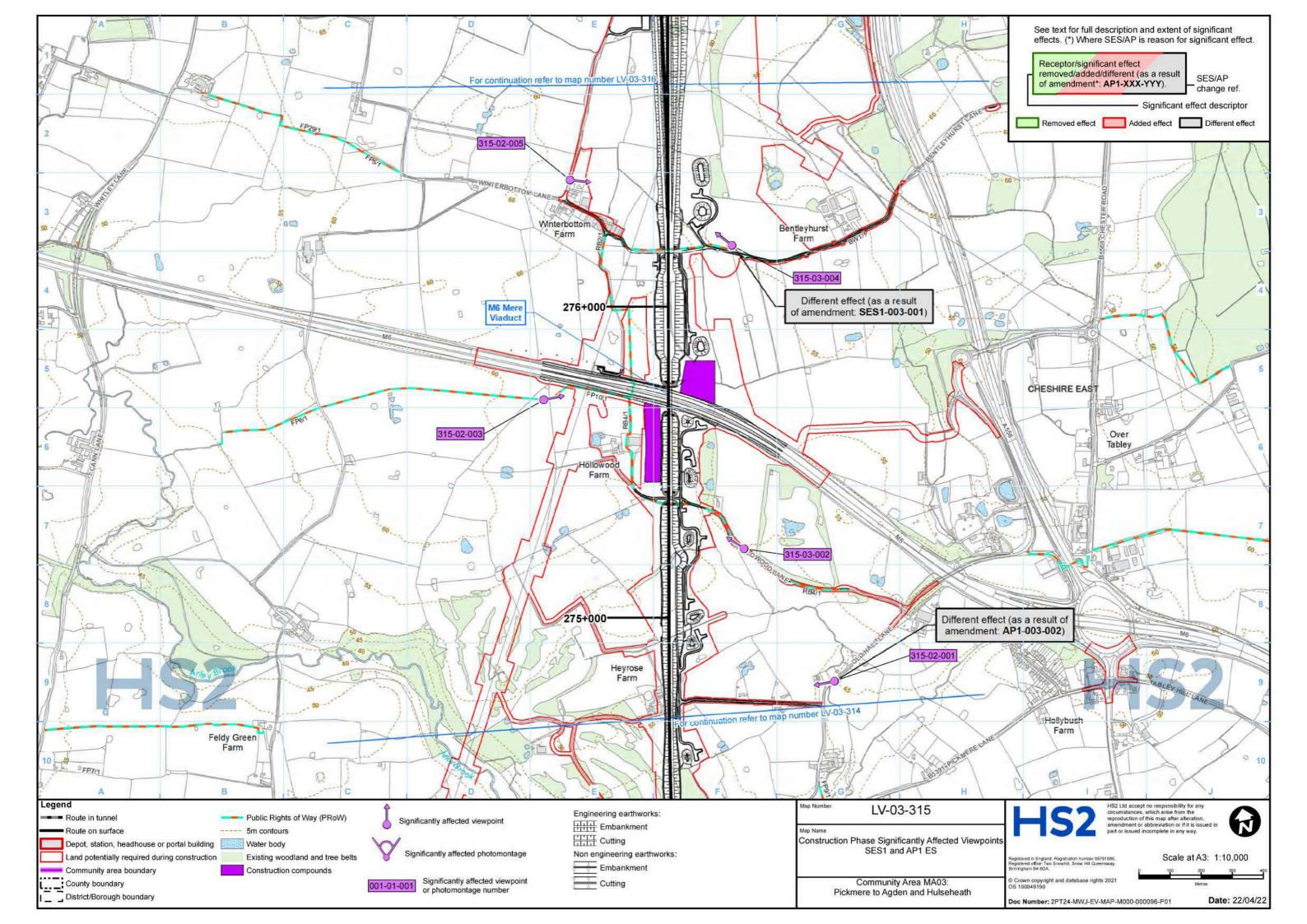


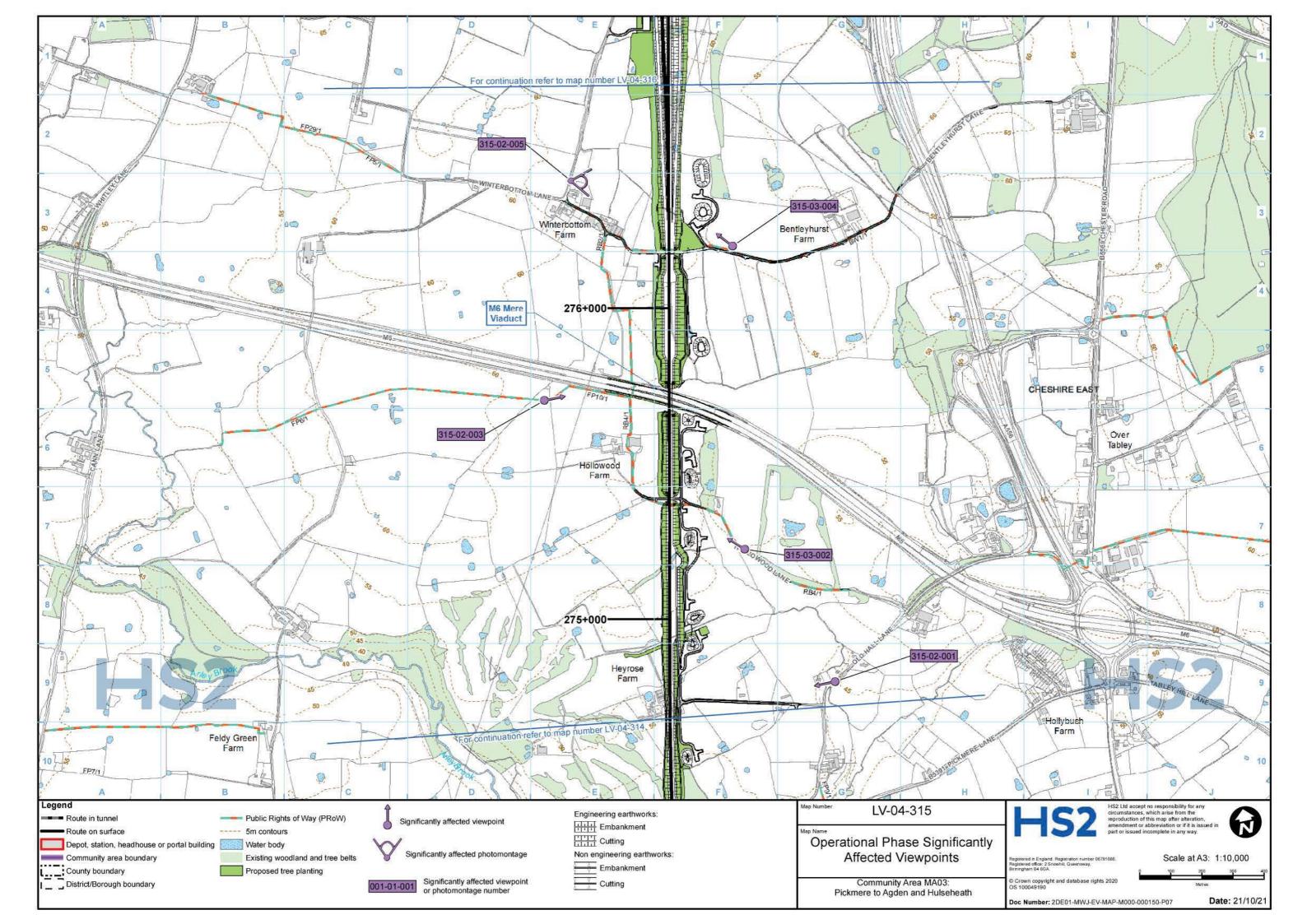


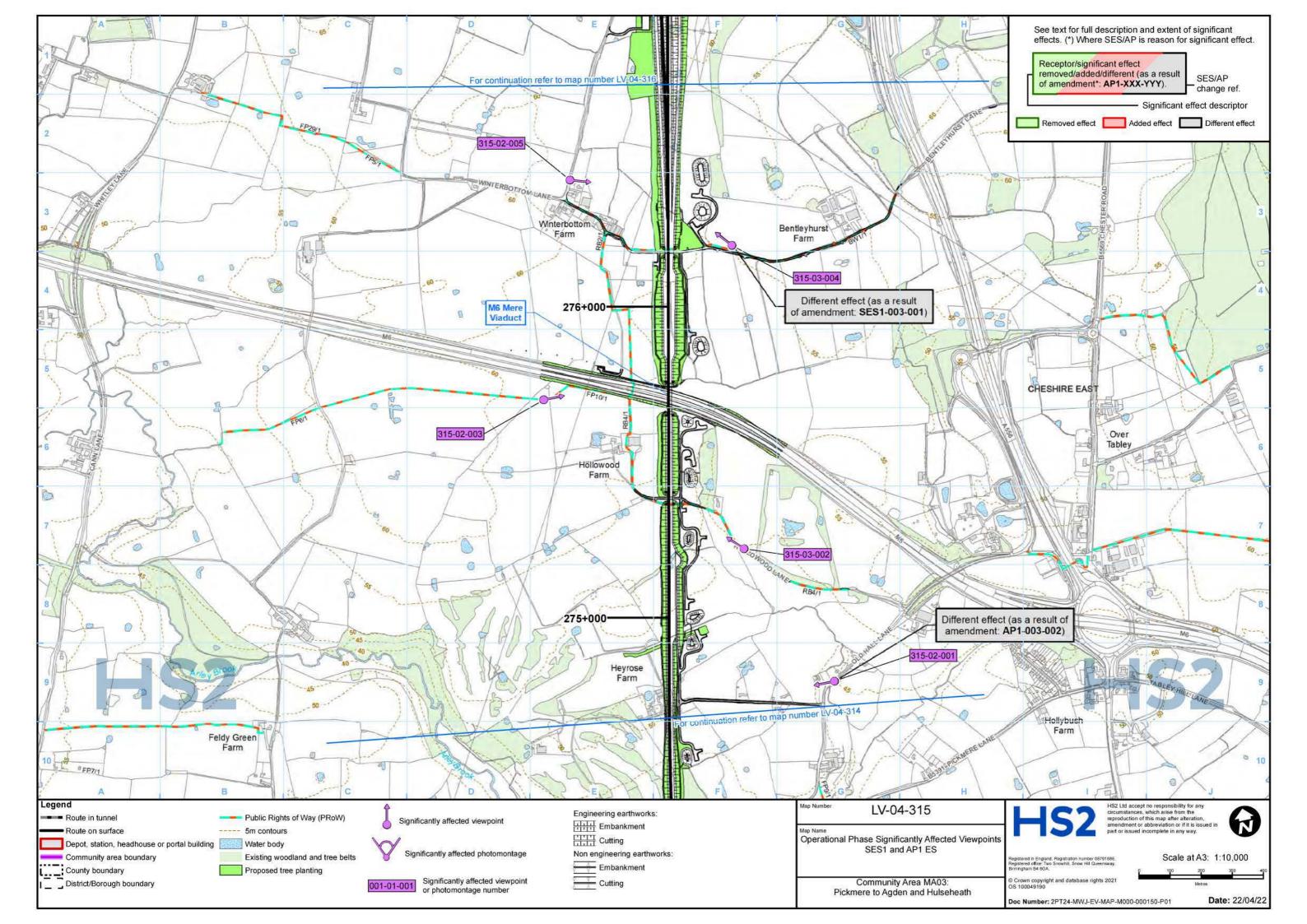


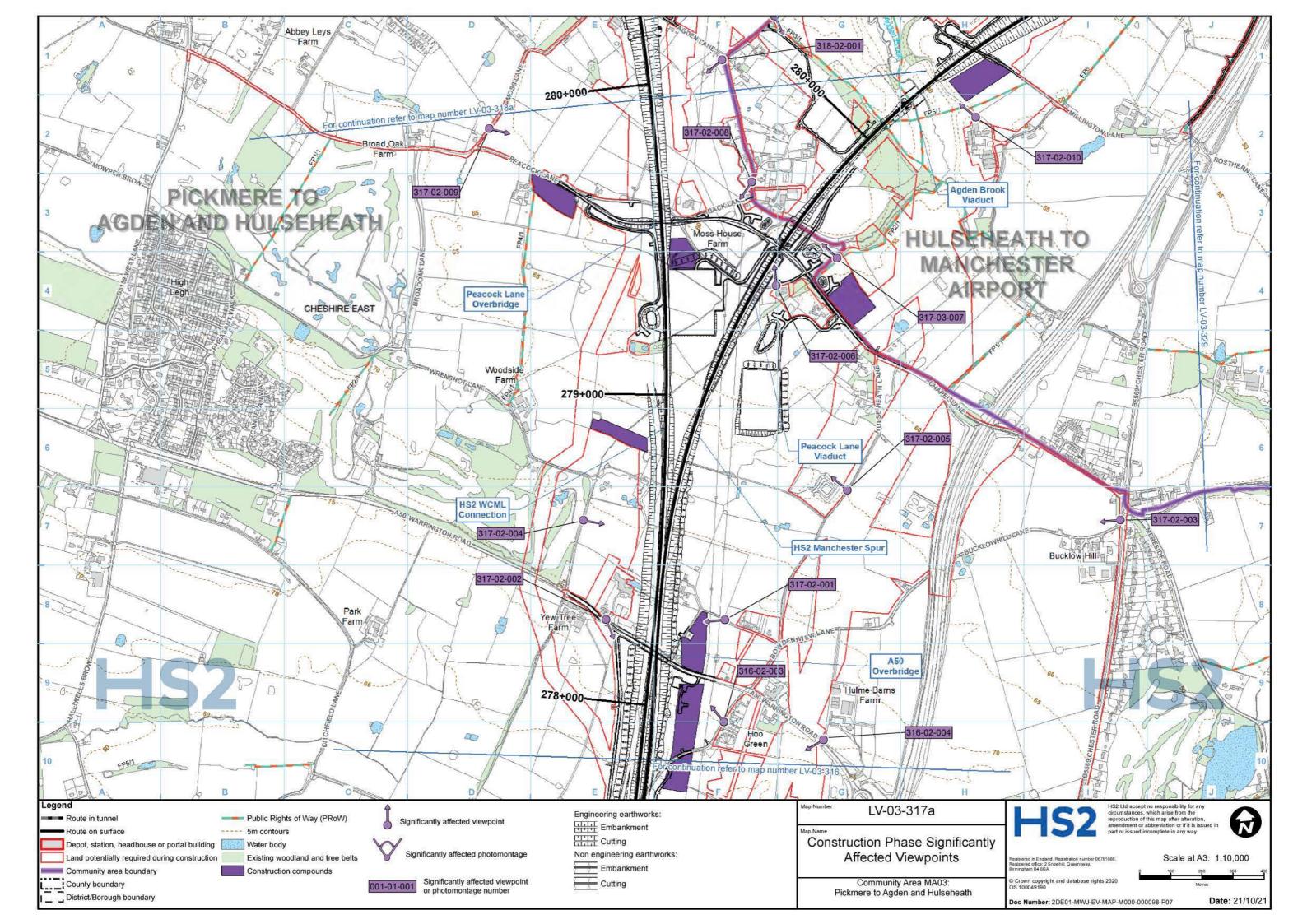


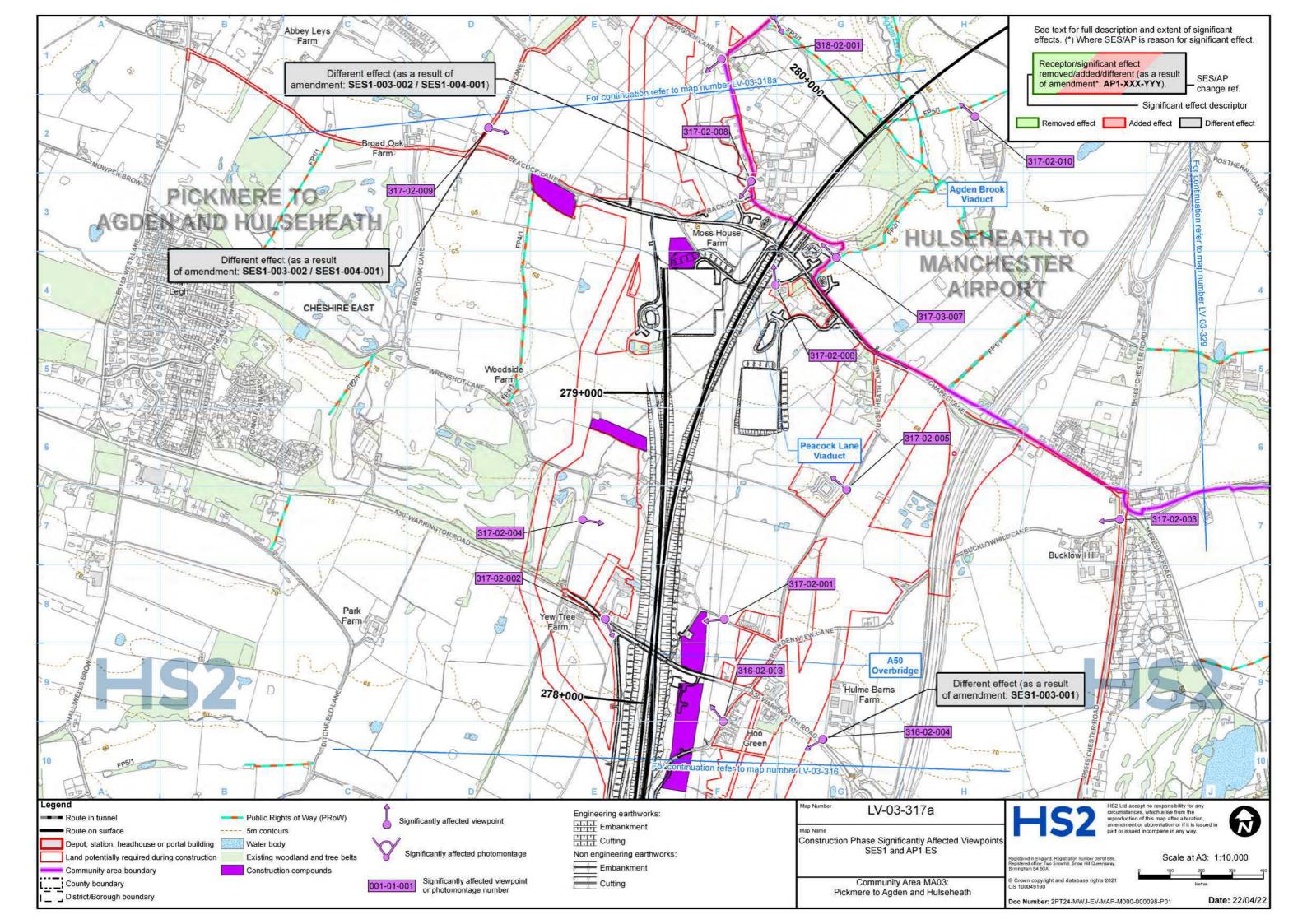


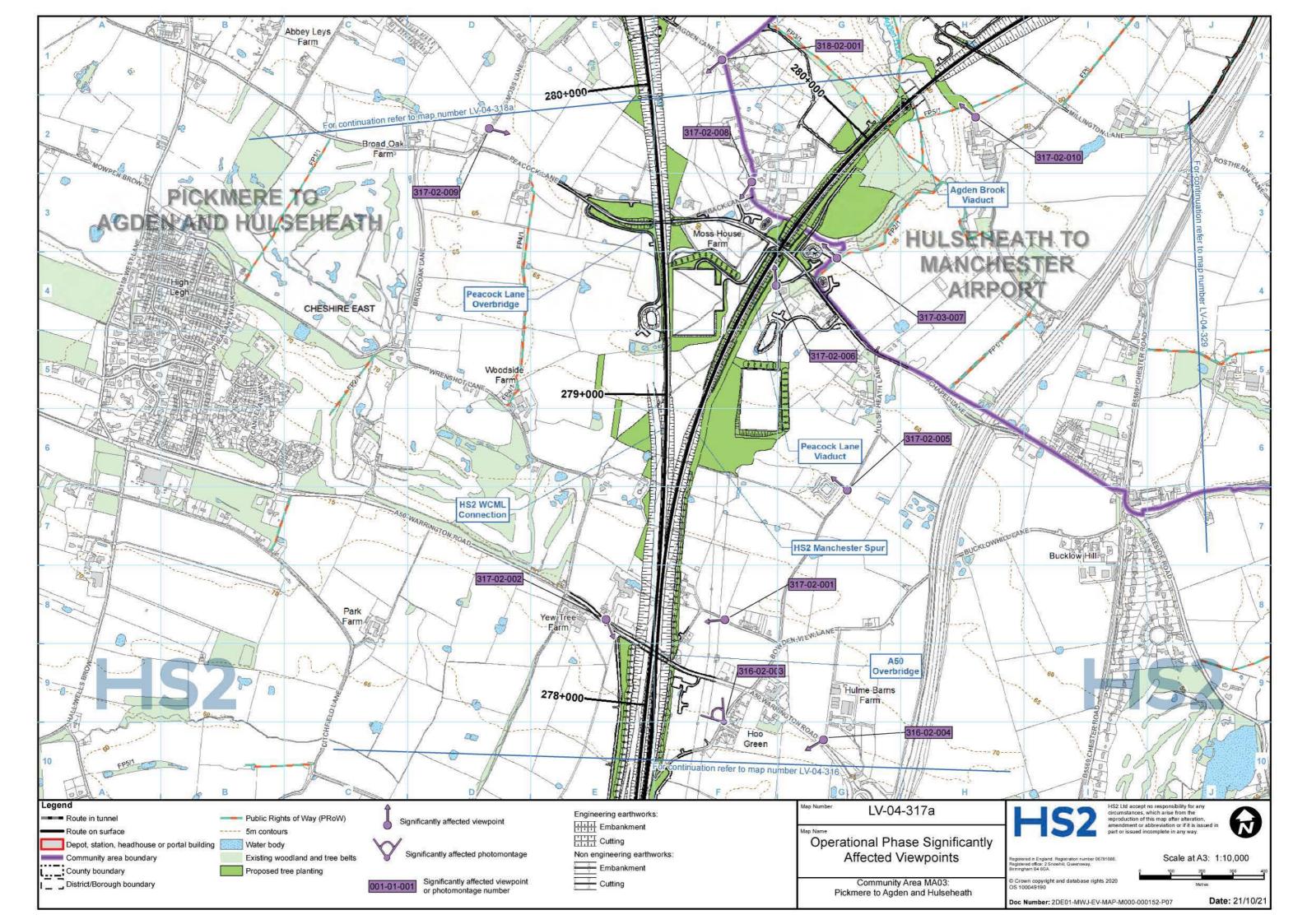


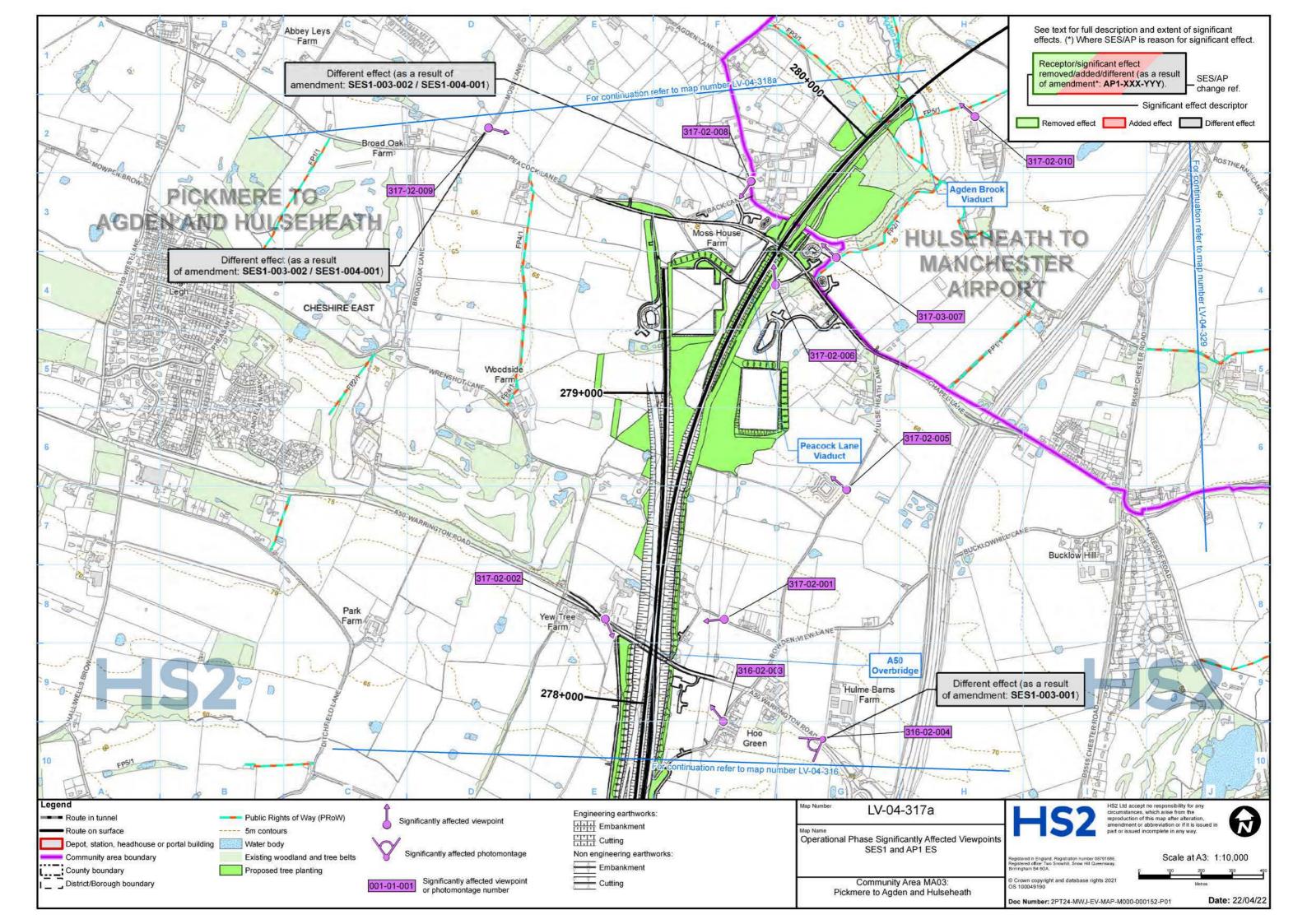


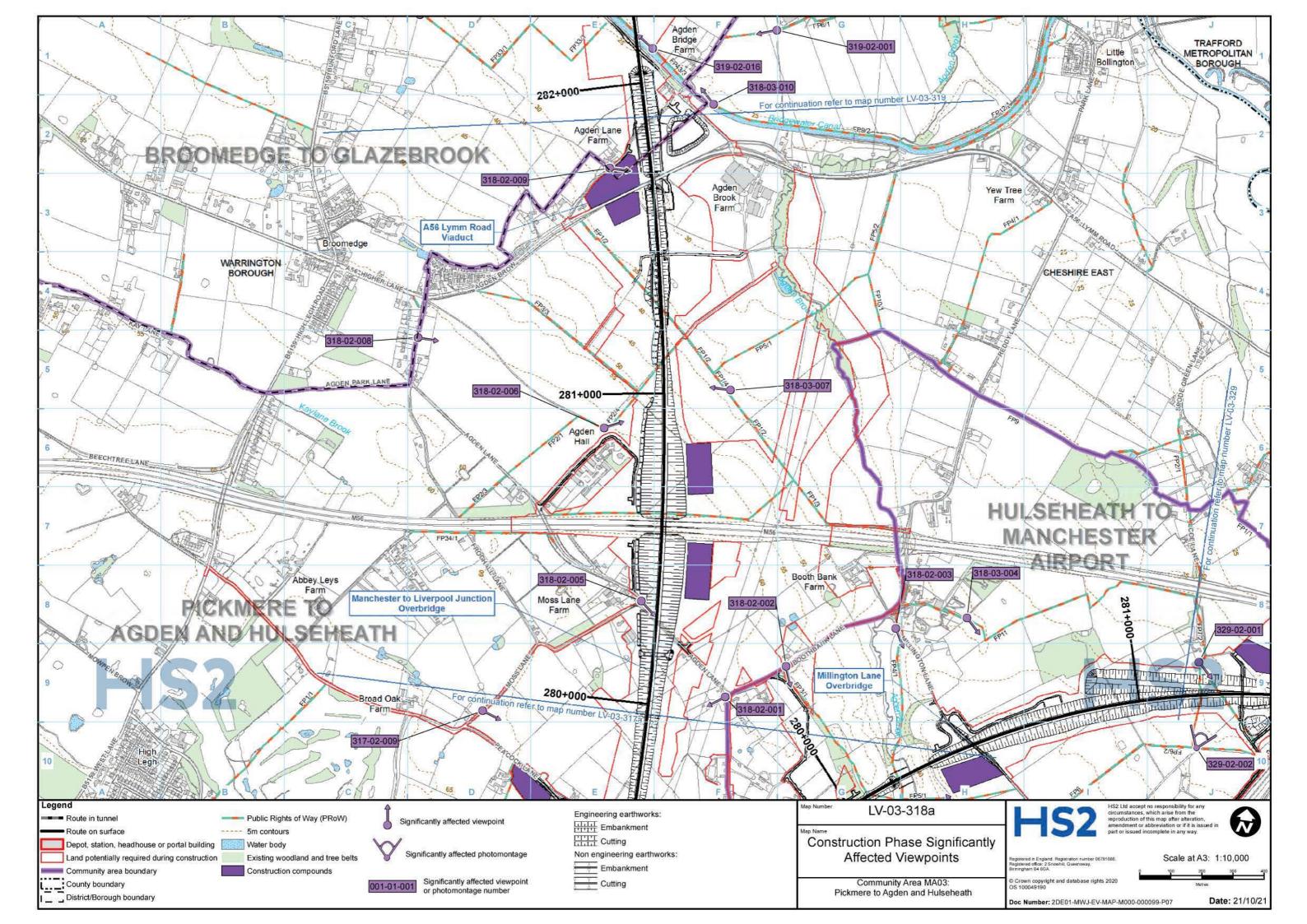


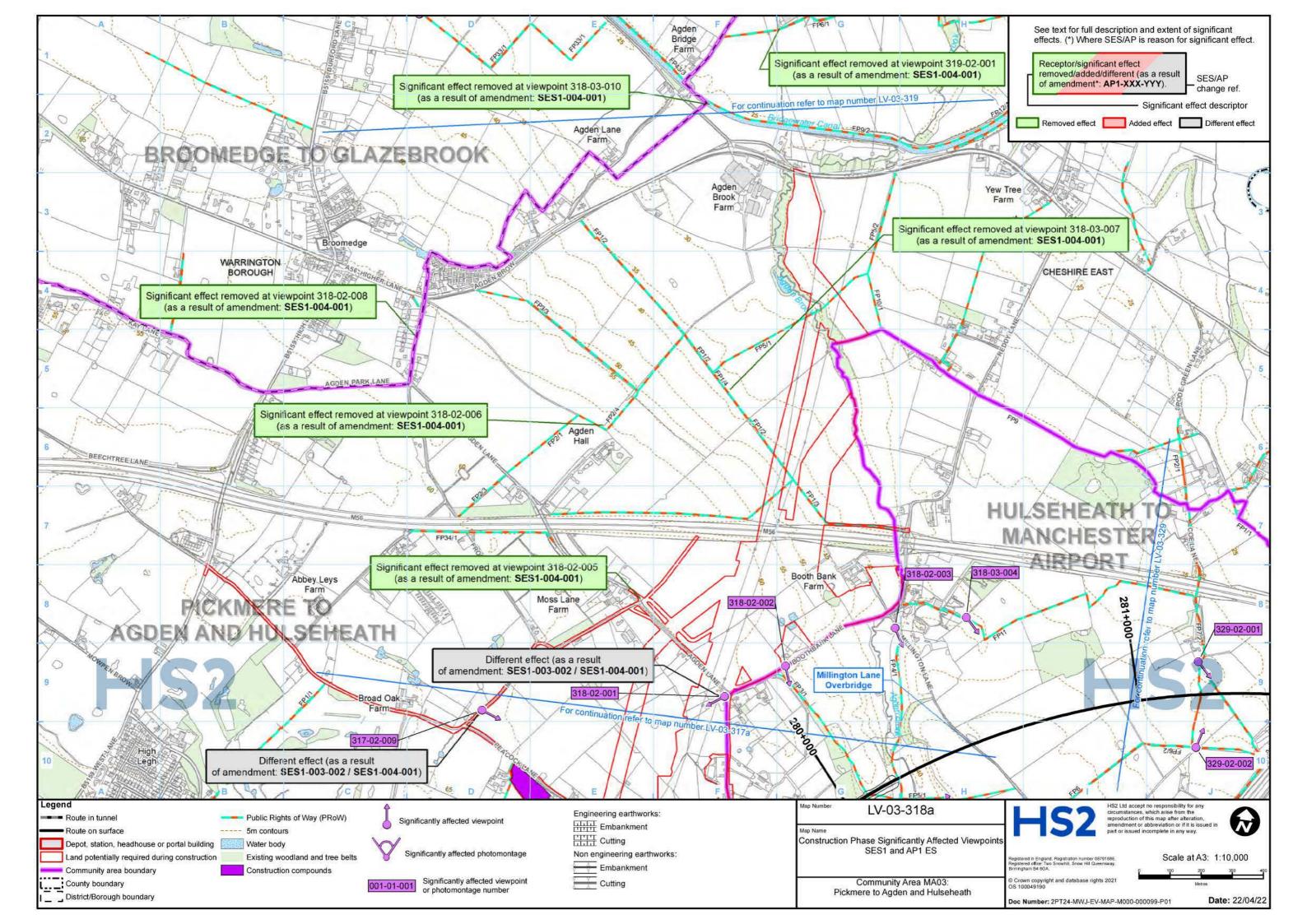


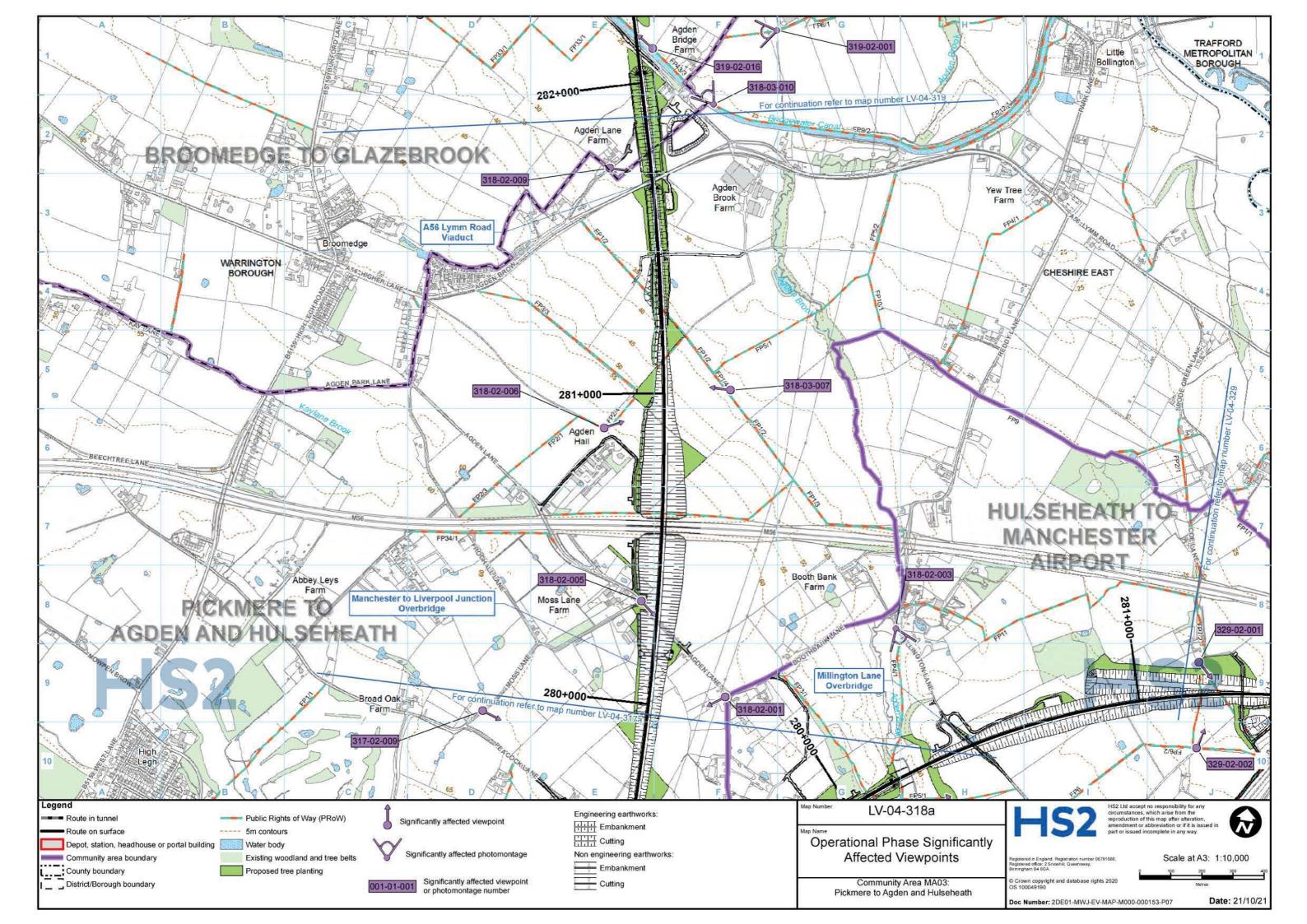


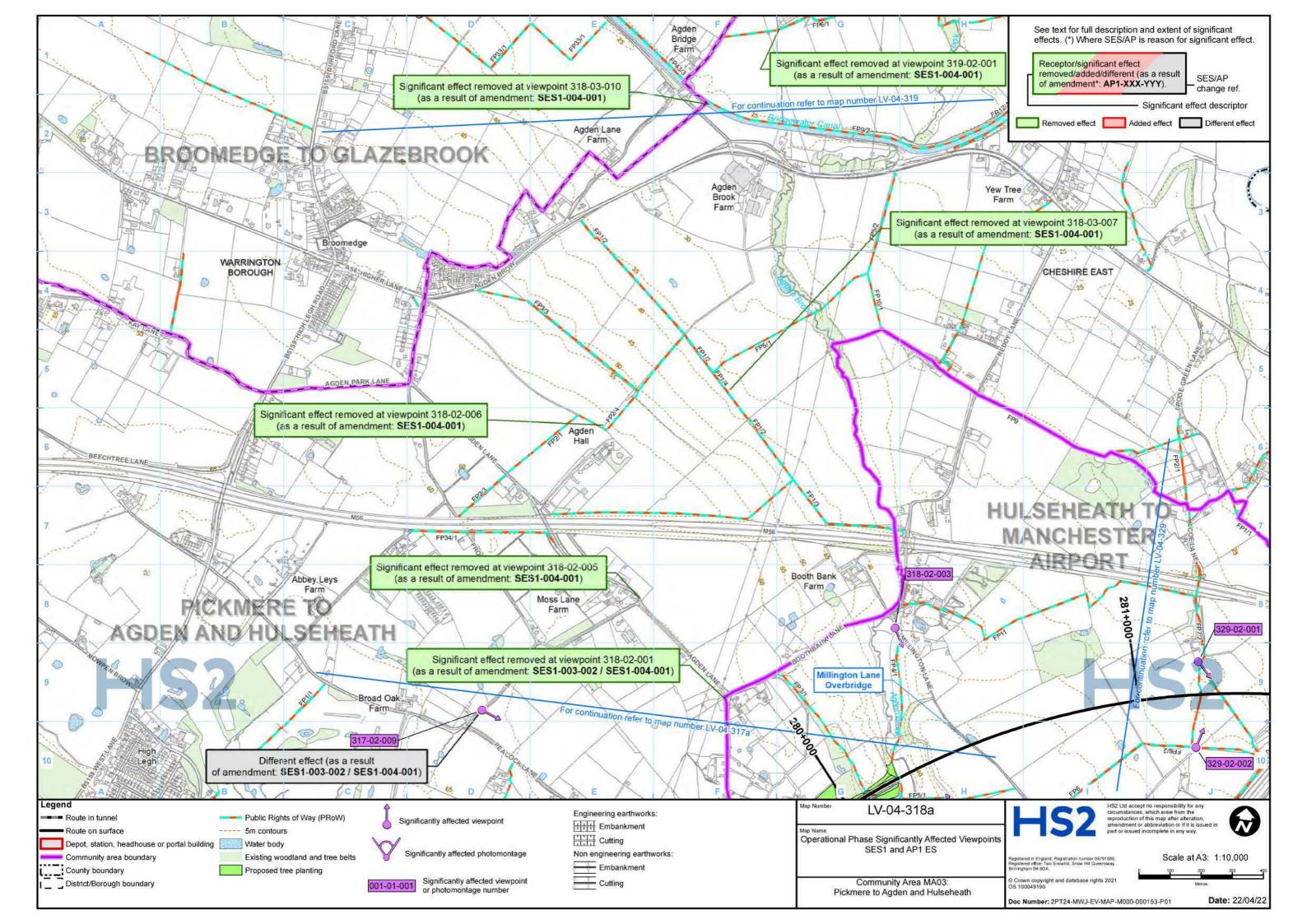










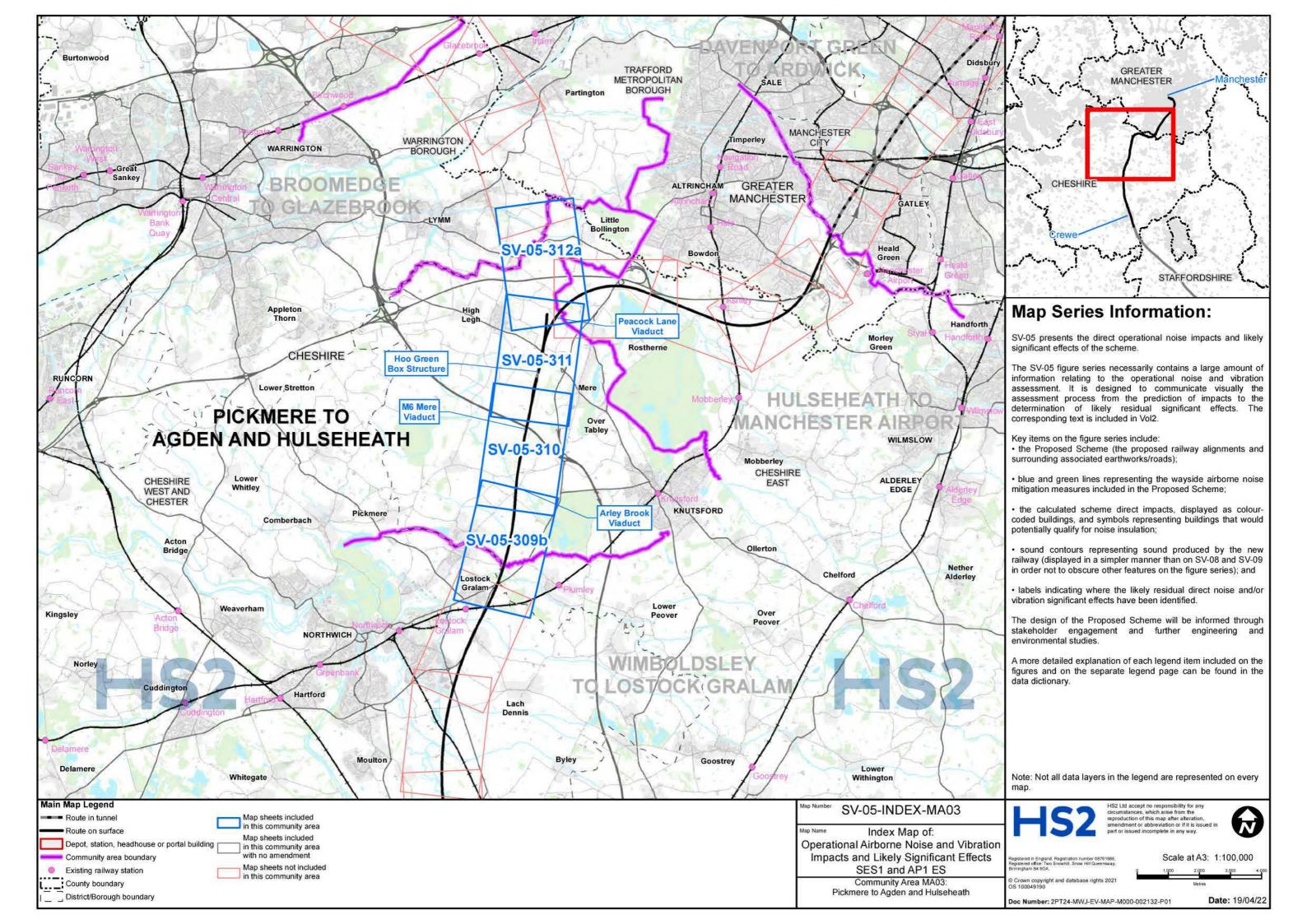




High Speed Rail (Crewe - Manchester)

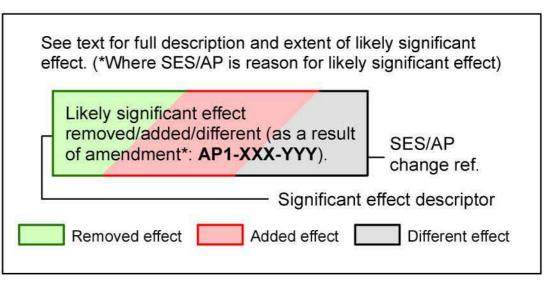
Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement

SV-05 – Operational Noise and Vibration Impacts and Likely Significant Effects



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		Likely significant effect on dwellings indicated by ○, ★ or × avoided by noise insulation	Effect dependent on receptor and baseline. For further details see Volume 5, Appendix 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 MAOX-O-C# ²	
< 40 dB	< 50 dB	Generally no adverse effect expected ¹	

Operational airborne noise impacts at residential buildings ¹		
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 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		



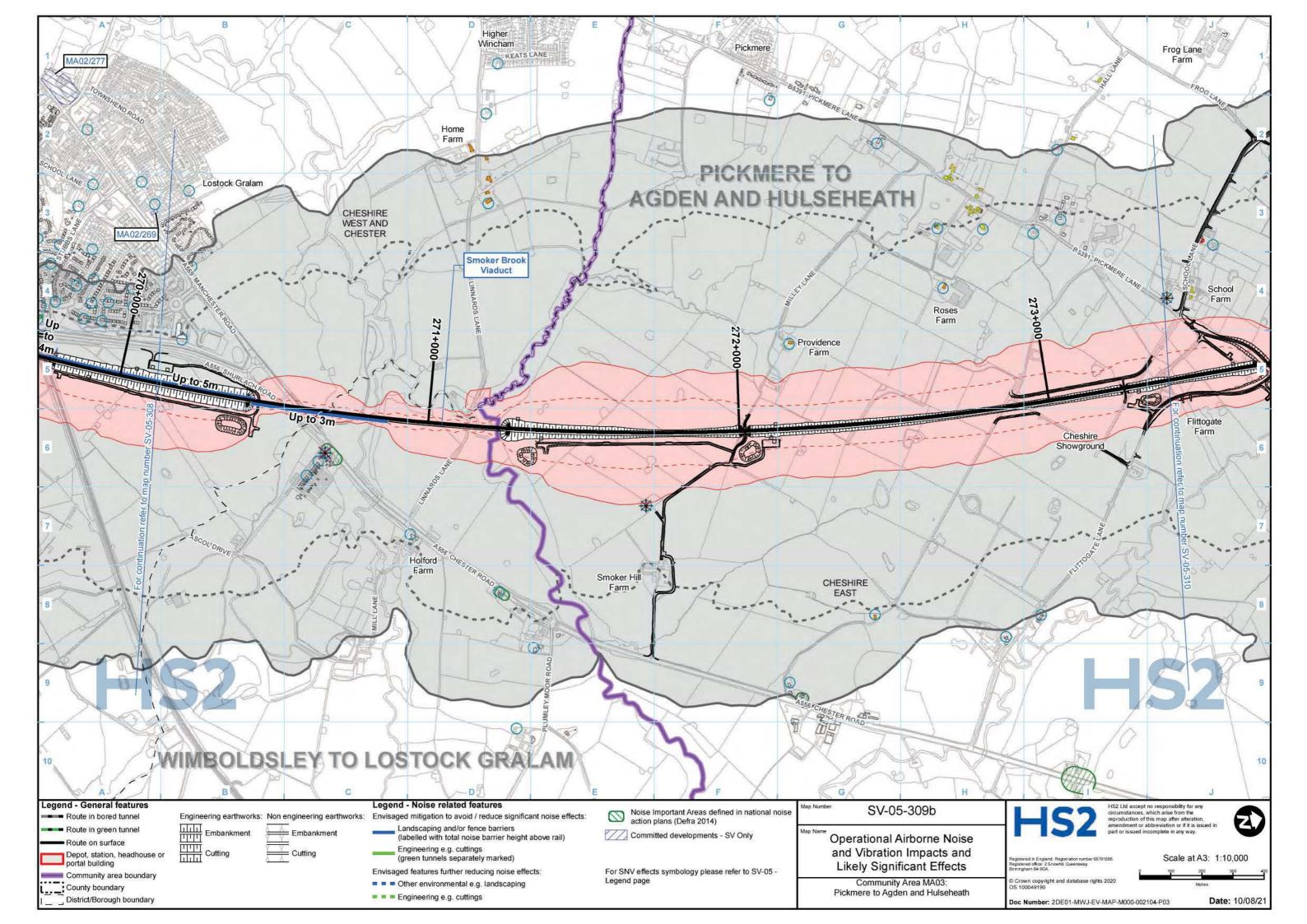
SV-05 - Legend

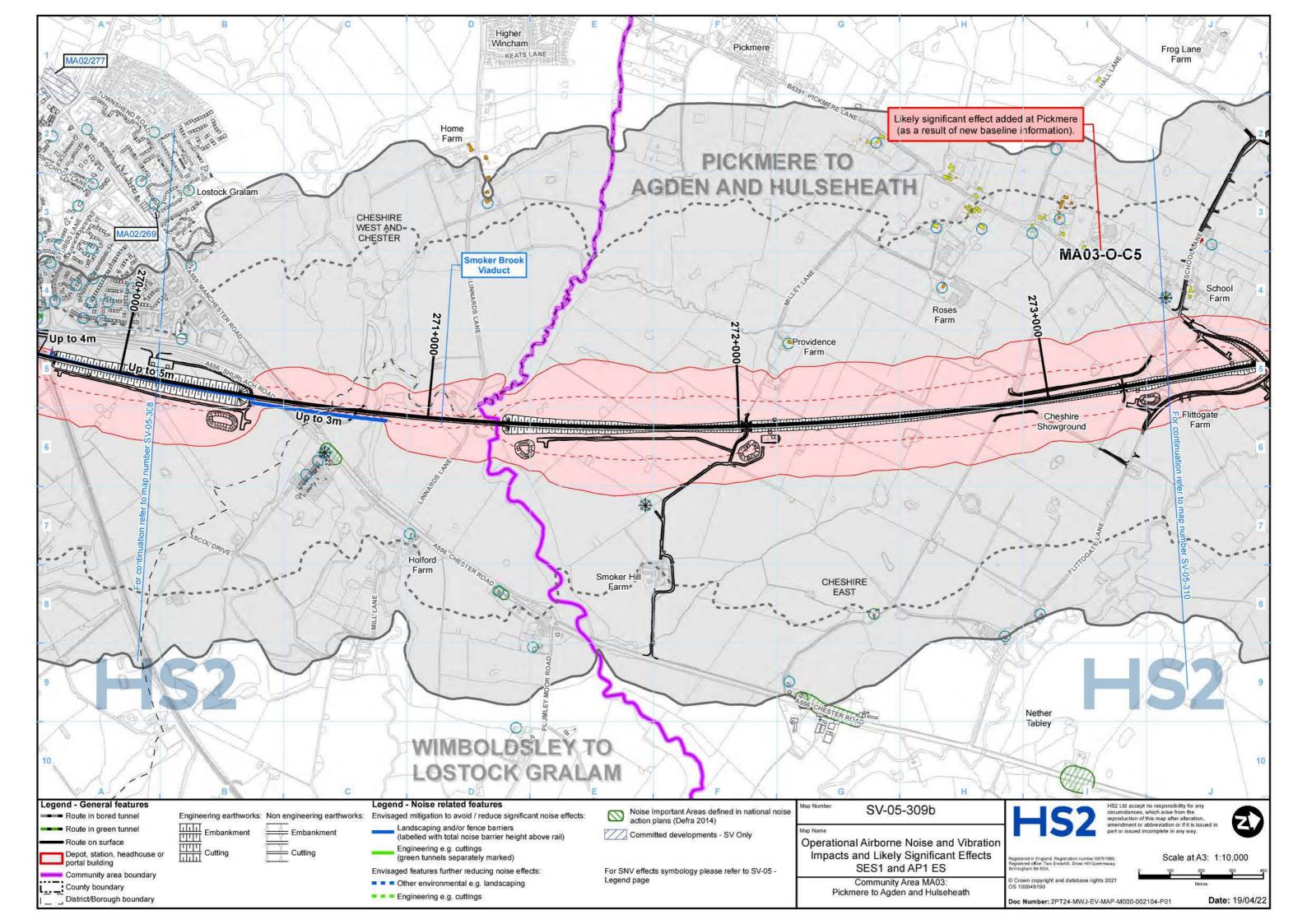
Operational Airborne Noise and Vibration Impacts and Likely Significant Effects SES1 and AP1 ES

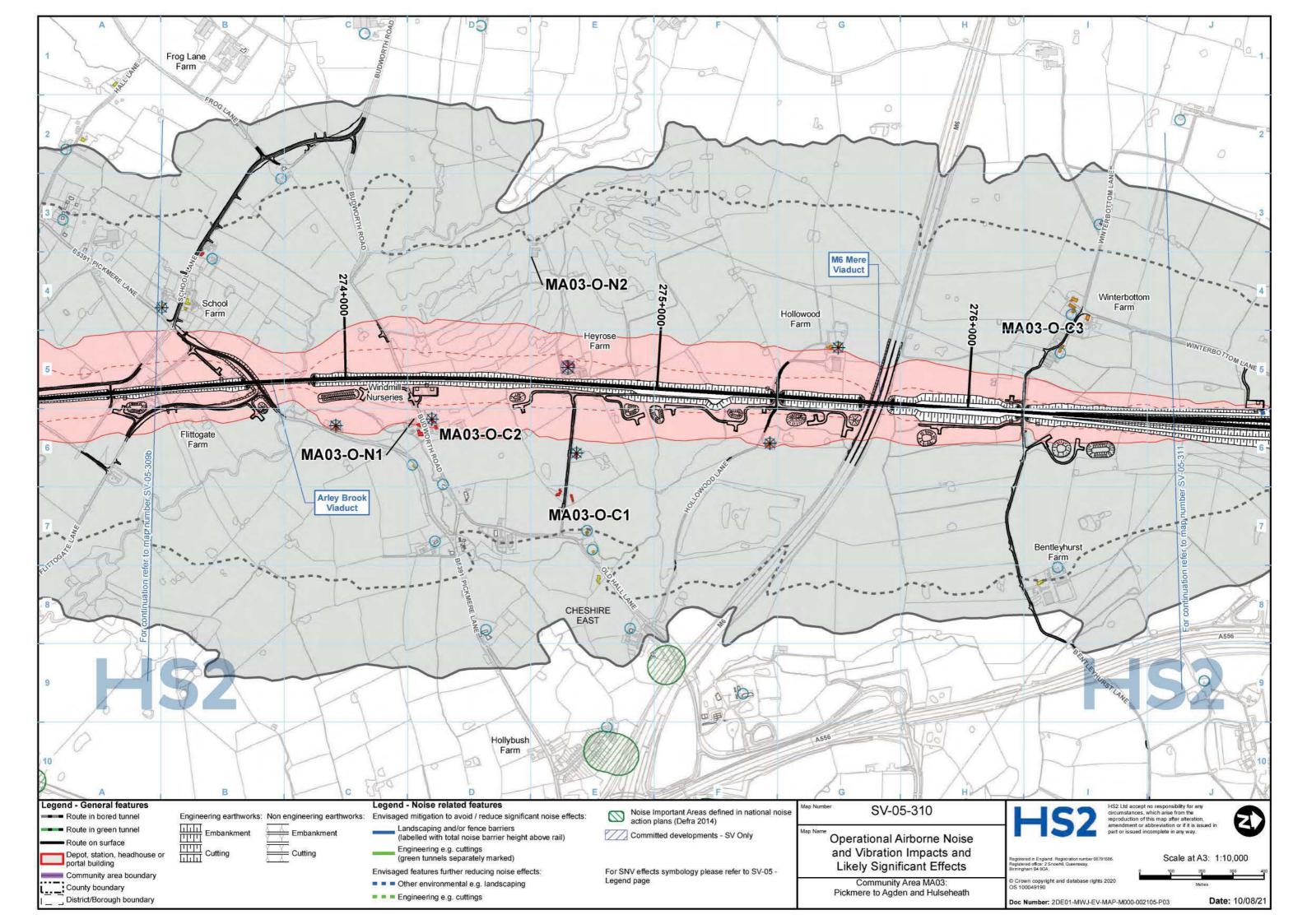


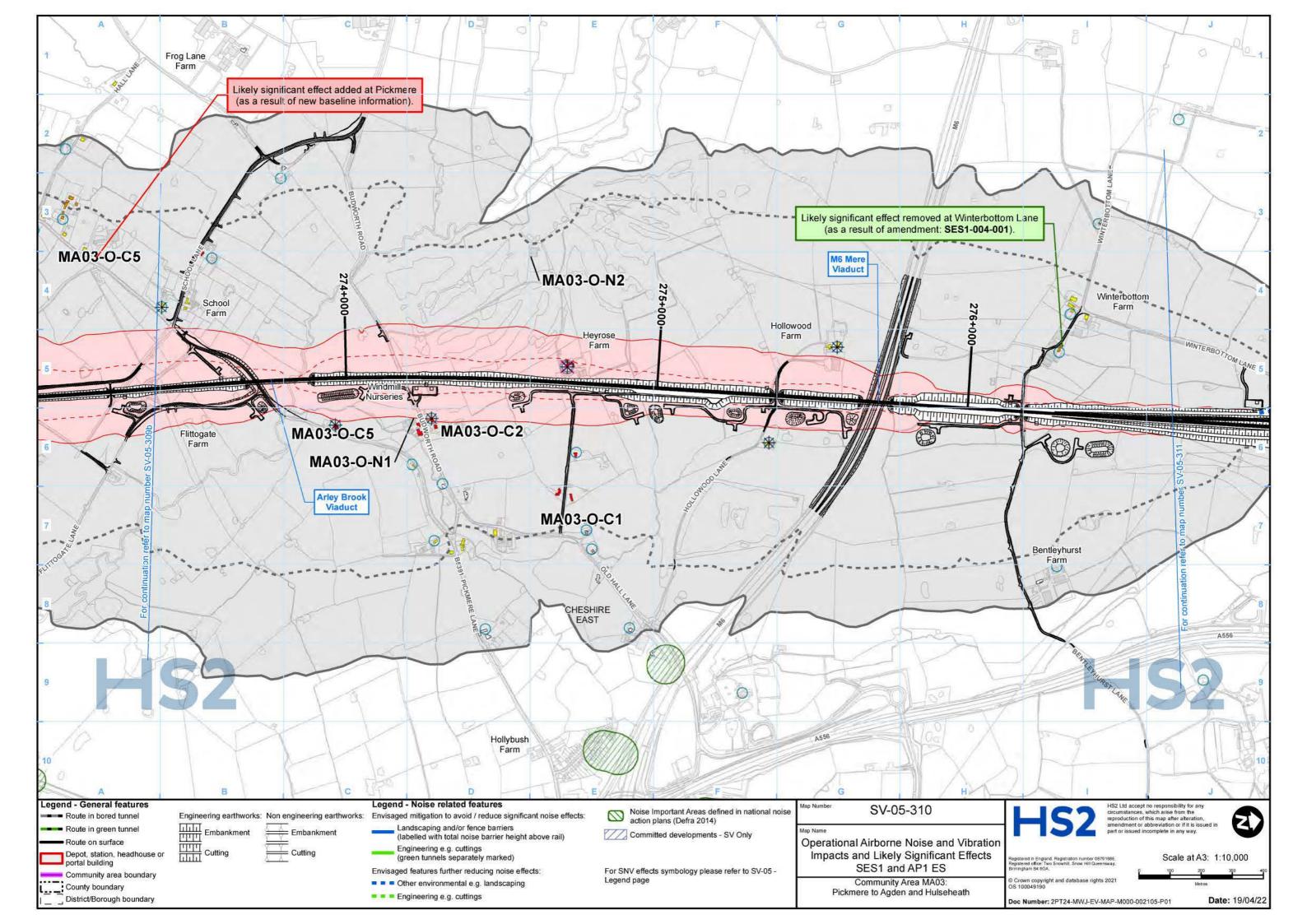
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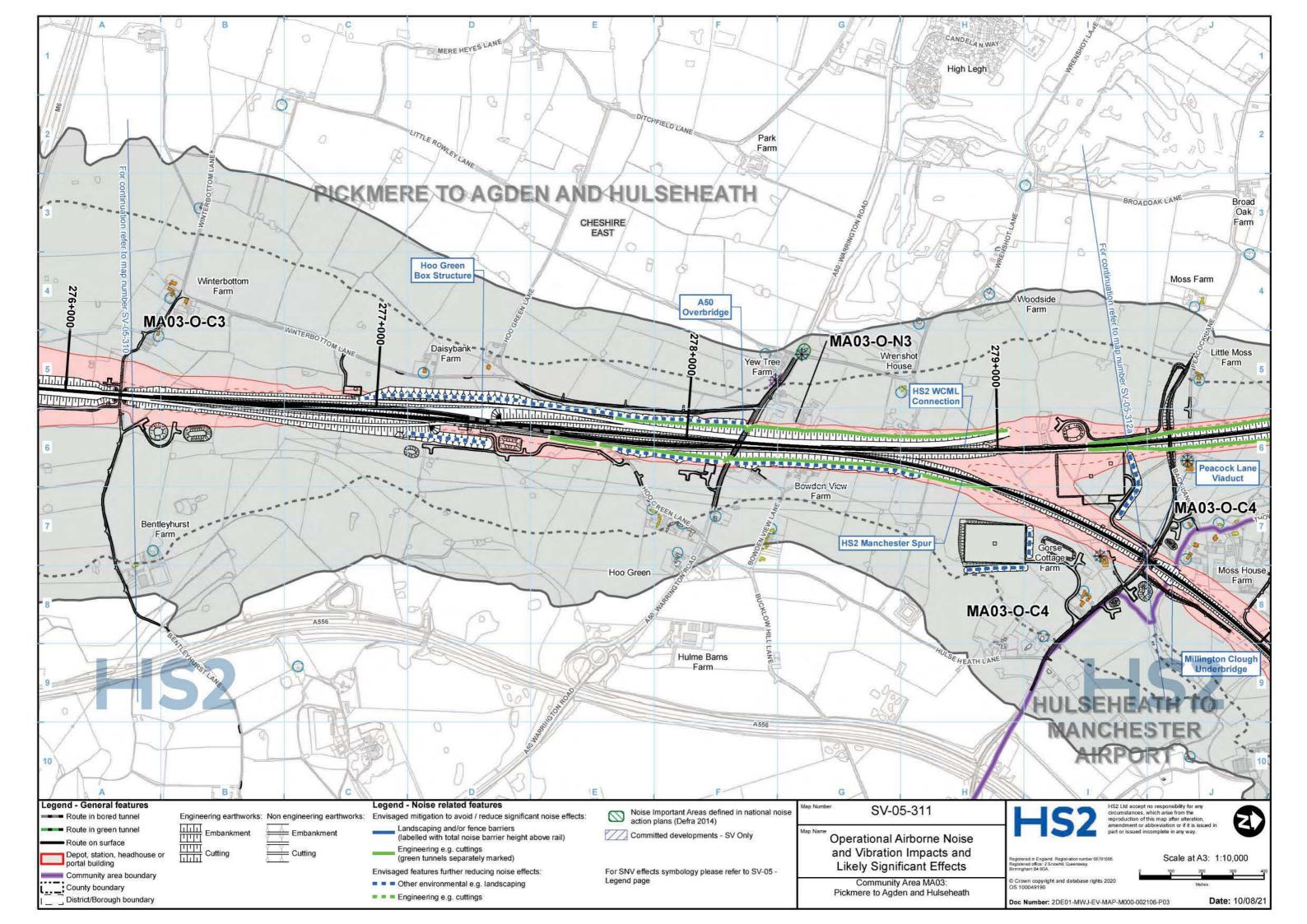
¹ For further information see Volume 5 Appendix SV-001-00000 ² For further details of the SES/AP1 ES assessment see Volume 5 Appendix SV-003-00000

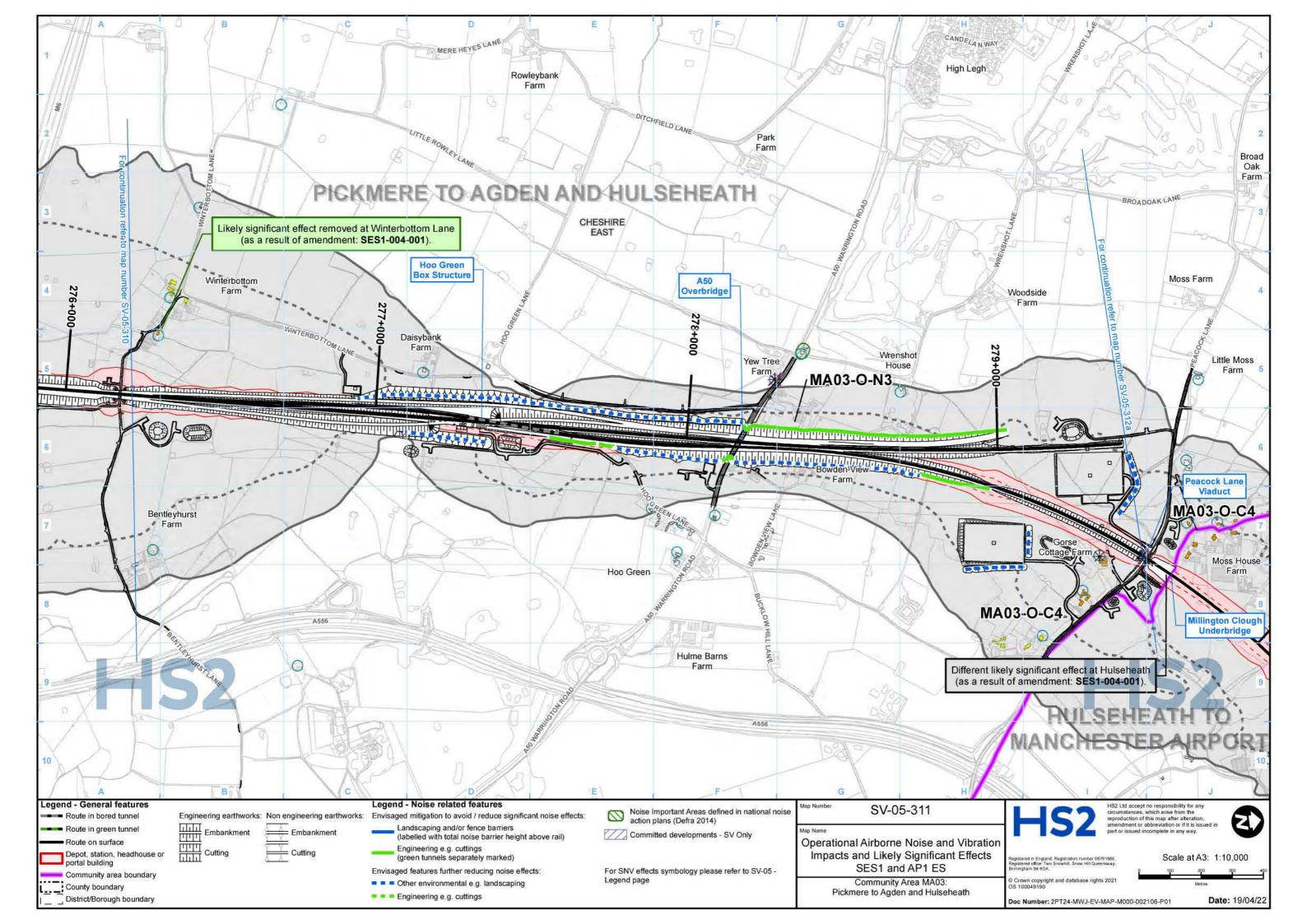


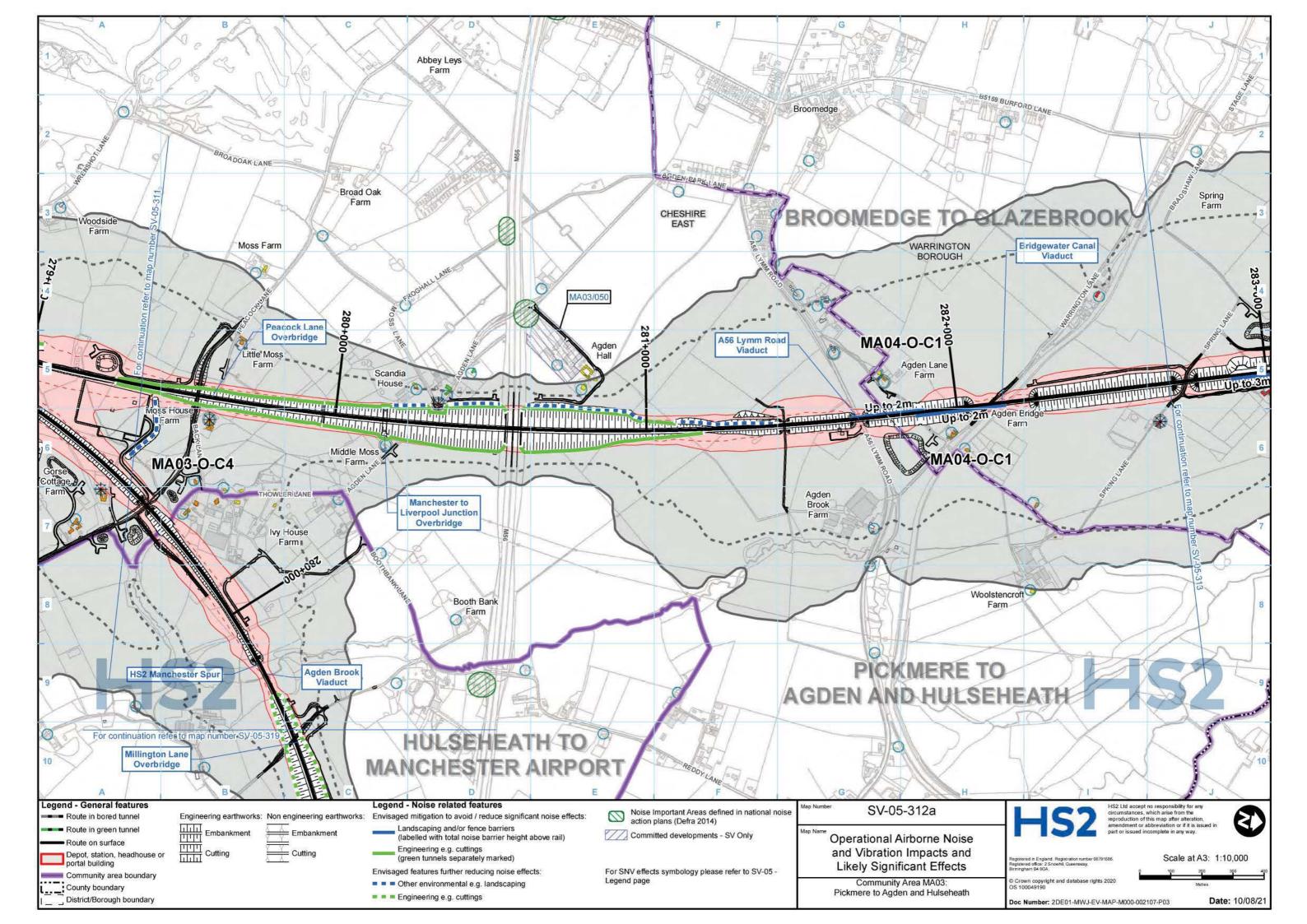


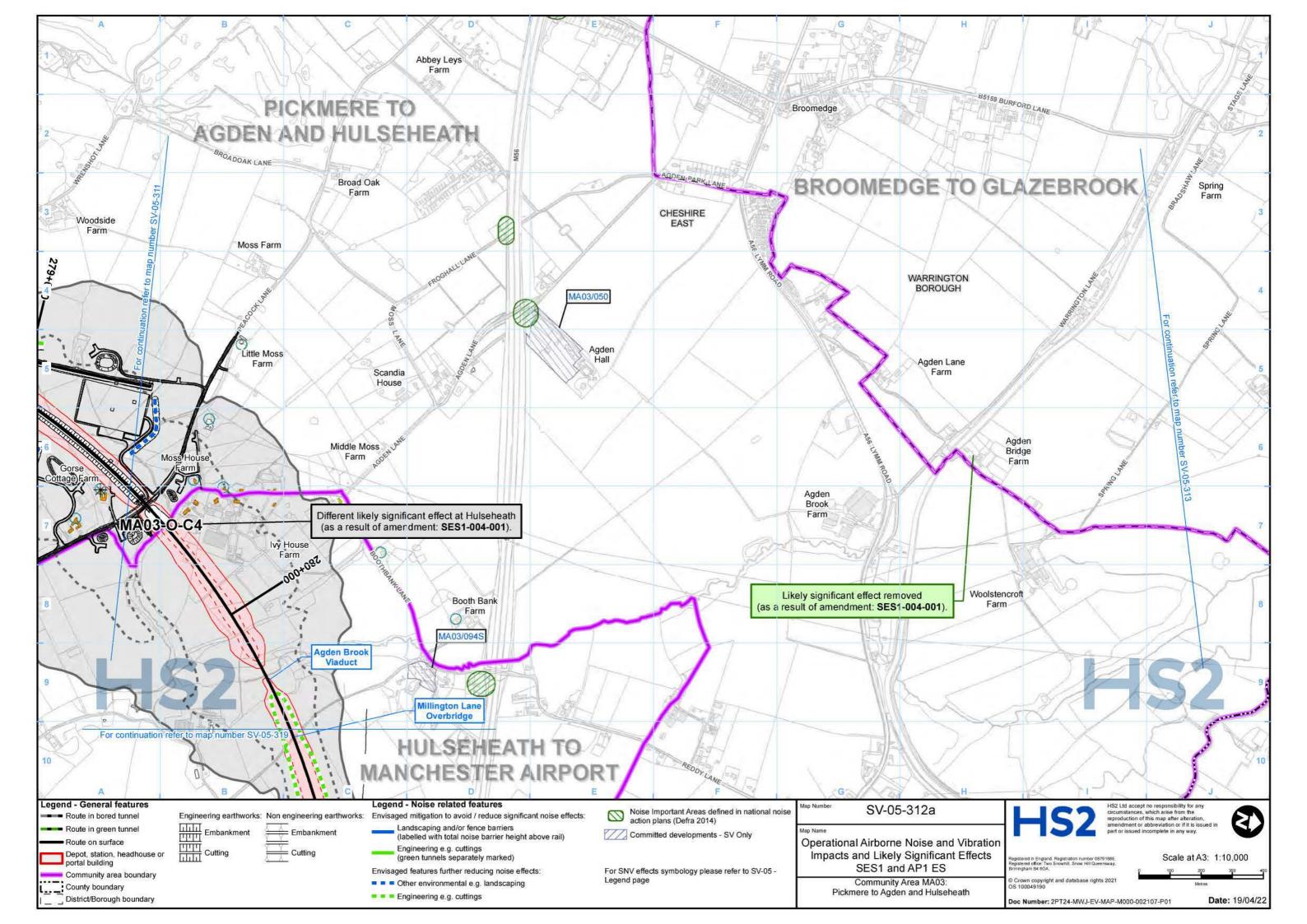












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