

High Speed Rail (Crewe – Manchester)

**Supplementary Environmental Statement 2 and
Additional Provision 2 Environmental Statement**

Volume 4: Off-route effects Map Book

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Additional Provision 2 Environmental Statement**

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Department
for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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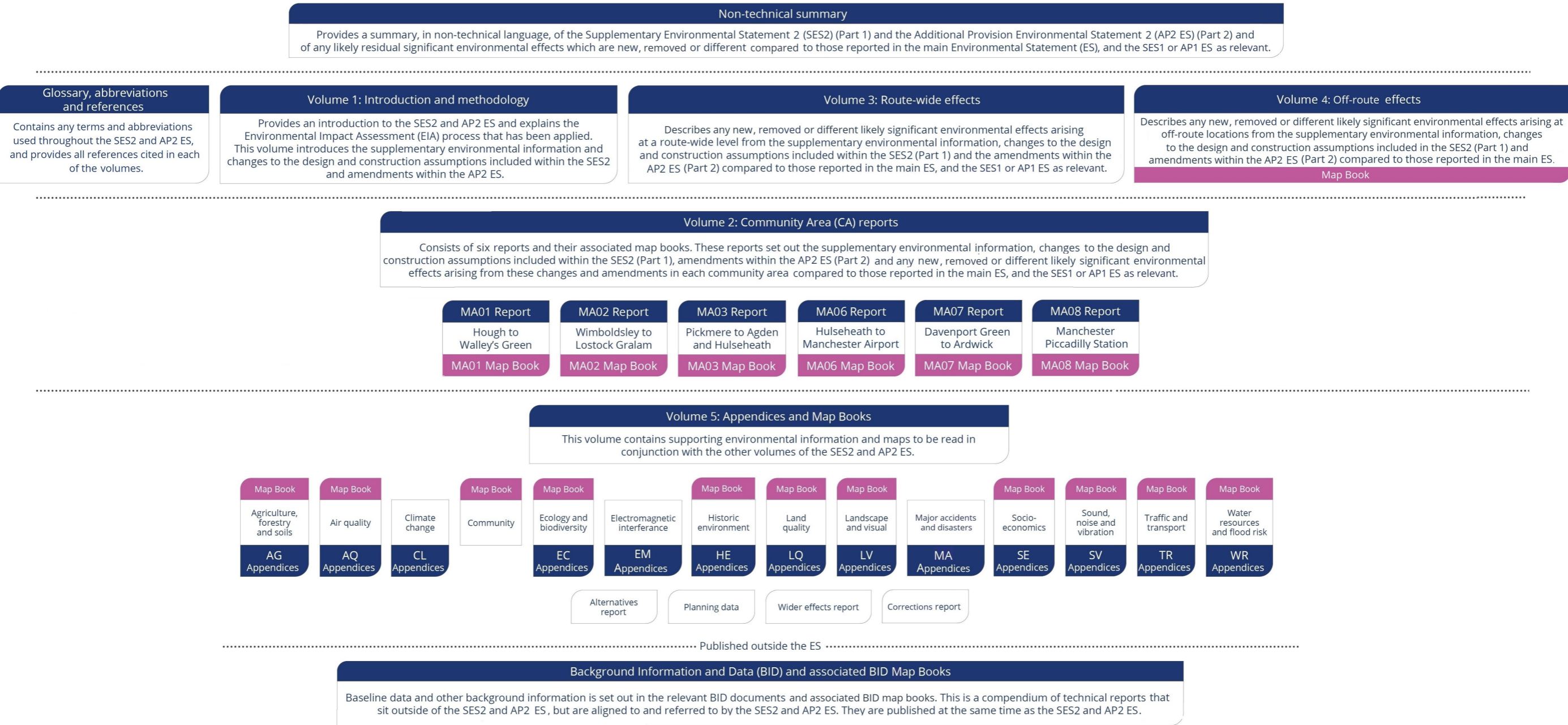
Data dictionary and definitions

Map series name	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 (inset year) 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 (inset year) Ordnance Survey (OS) data.
CT-10 - Environmental Baseline	The Environmental Baseline maps display a range of environmental data layers.

Mapping explanatory notes

Structure of the Supplementary Environmental Statement 2 and the Additional Provision 2 Environmental Statement

This map book is part of the suite of documents that make up the Supplementary Environmental Statement 2 (SES2) and the Additional Provision 2 Environmental Statement (AP2 ES) for the High Speed Rail (Crewe – Manchester) scheme. The SES2 and the AP2 ES are separate documents; however, they are bound together and presented in a number of volumes shown in the figure below.



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 SES2 and AP2 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 SES2 and AP2 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 SES2 and the AP2 ES map on the right. For the CT-05 and CT-06 map series, the SES2 and the AP2 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 SES2 and the AP2 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 SES2 and the AP2 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 SES2 and the AP2 ES reference number. For more detailed information about the SES2 and the AP2 ES annotation, refer to the map series legend. Only maps which have been amended as a result of the SES2 and the AP2 ES are included within the map book. Changes to receptors or significant effects relating to SES1 or AP1 ES are also provided for reference. Where this is the case they are shown in a faded box.

Where a significant effect has been changed due to a correction to mapping produced in the main ES or previous SES/AP, the significant effect reference is suffixed with a double asterisk (**). The map now shows the correct effect.

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 SES2 and AP2 ES.

Map books

In total, there are 19 map books included in the SES2 and AP2 ES Volume 2, Volume 4 and Volume 5. A list of the map book titles and map series is provided below for reference.

Map book title (map series)	Map book title (map series)
Volume 2: Map Book – MA01: Hough to Walley’s Green (CT-05, CT-06, CT-10, LV-03, SV-05)	Volume 5: Map Book – Planning Data / Committed Developments (CT-13)
Volume 2: Map Book – MA02: Wimboldsley to Lostock Gralam (CT-05, CT-06, CT-10, LV-03, SV-05)	Volume 5: Map Book – Ecology and biodiversity (EC-01)
Volume 2: Map Book – MA03: Pickmere to Agden and Hulseheath (CT-05, CT-06, CT-10, LV-03, LV-04, SV-05)	Volume 5: Map Book – Historic environment (HE-01, HE-02)
Volume 2: Map Book – MA06: Hulseheath to Manchester Airport (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 – MA07: Davenport Green to Ardwick (CT-05, CT-06, CT-10, LV-01, LV-03, LV-04)	Volume 5: Map Book – Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)
Volume 2: Map Book – MA08: Manchester Piccadilly Station (CT-05, CT-06, CT-10, LV-03, LV-04, SV-05)	Volume 5: Map Book – Socio-economics (SE-01)
Volume 4: Off-route effects map book	Volume 5: Map Book – Sound, noise and vibration (SV-02, SV-03, SV-08, SV-09)
Volume 5: Map Book – Agriculture, forestry and soils (AG-01, AG-04)	Volume 5: Map Book – Traffic and transport (TR-01, TR-03, TR-04, TR-08)
Volume 5: Map Book – Air quality (AQ-01)	Volume 5: Map Book – Water resources and flood risk (WR-01, WR-03, WR-05, WR-06)
Volume 5: Map Book – Community (CM-01)	

High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

Data dictionary and definitions

Data dictionary and definitions

Legend features	Definition	Source	Copyright
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	
Additional land required at previous AP	Areas of land required at the previous 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 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 2022.
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	
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.	Carlisle City Council Cheshire East Council Cheshire Historic Environment Record Cheshire West and Chester Council Cumbria County Council Lancashire County Council Manchester City Council Salford City Council Stockport Metropolitan Borough Council Trafford Council Warrington Borough Council	© Carlisle City Council. © Cheshire East Council. © Cheshire Historic Environment Record. © Cheshire West and Chester Council. © Cumbria County Council. © Lancashire County Council. © Manchester City Council. © Salford City Council. © Stockport Metropolitan Borough Council. © Trafford Council. © Warrington Borough Council.
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.
Culvert	A tunnel (pipe or box-shaped) carrying a stream or open drain under a road or railway.	High Speed Two (HS2) Ltd	
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	
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 2022.

Legend features	Definition	Source	Copyright
Existing contours	Lines depicting land heights to show topography.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2022.
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	See Public Rights of Way
Existing watercourse	See Watercourse.	See Watercourse.	See Watercourse.
Existing woodland	See Woodland.	See Woodland.	See Woodland.
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 no longer required at previous AP/SES	Areas of land no longer required at a previous 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	

Legend features	Definition	Source	Copyright
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 2022. Contains Ordnance Survey data © Crown copyright and database right 2022 The Historic England GIS Data contained in this material was obtained on 4 July 2022. The most publicly available up to date Historic England GIS Data can be obtained from HistoricEngland.org.uk .
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 2022.
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. © Warrington Borough Council.
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 2022.
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	

Legend features	Definition	Source	Copyright
Noise fence barrier	A barrier to reduce unwanted sound.	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	
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 2022.
Registered park/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 2022. Contains Ordnance Survey data © Crown copyright and database right 2022 The Historic England GIS Data contained in this material was obtained on 4 July 2022. 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	
Route in tunnel	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
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 2022. Contains Ordnance Survey data © Crown copyright and database right 2022. The Historic England GIS Data contained in this material was obtained on 4 July 2022. The most publicly available up to date Historic England GIS Data can be obtained from HistoricEngland.org.uk .
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 2022.
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 2022.
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 2022.
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 highway diversion / realignment	Indicative temporary highway diversion layouts during the construction phase.	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	

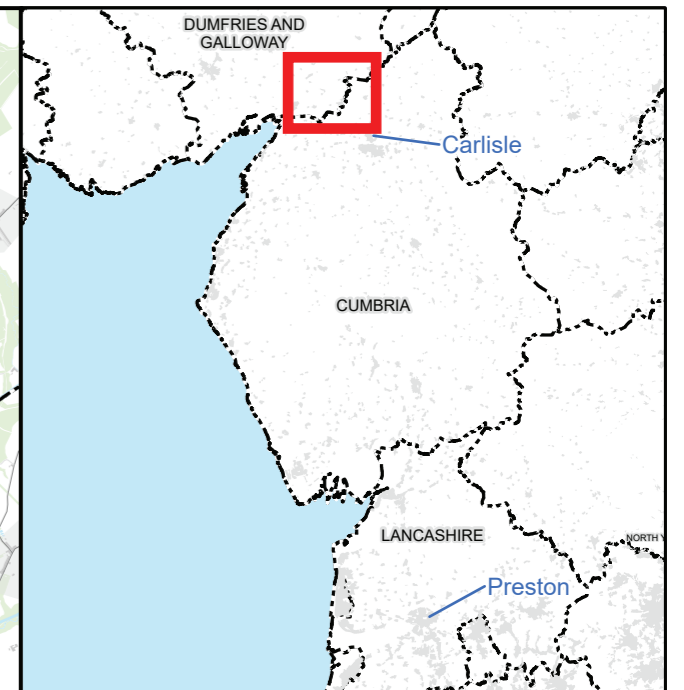
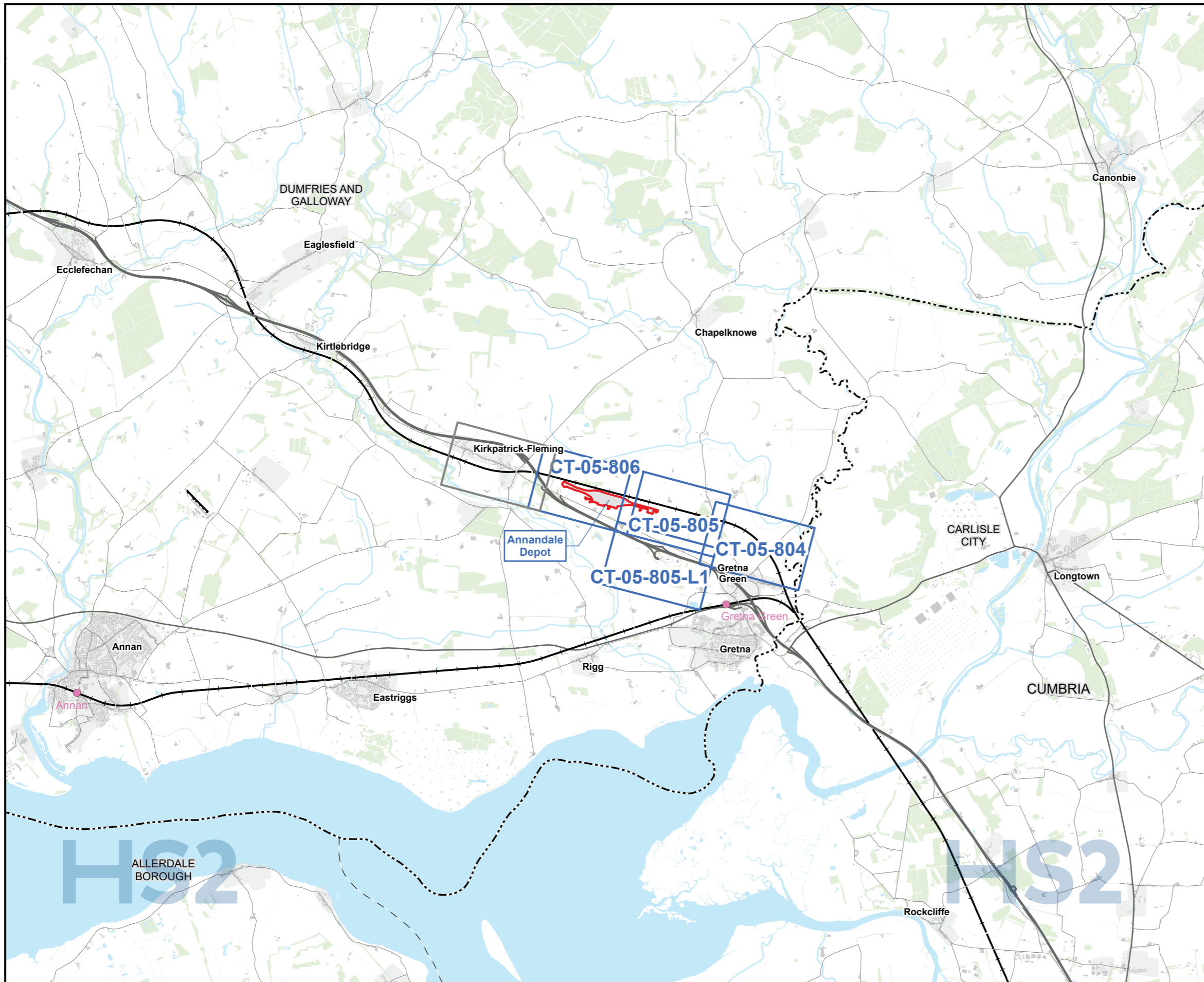
Legend features	Definition	Source	Copyright
Temporary public right of way diversion / realignment	Indicative temporary diversions to public rights of way as a result of construction of the scheme. These will vary depending on construction phase and local conditions.	High Speed Two (HS2) Ltd	
Temporary 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 2022.
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 2022.
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	
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 2022.
Woodland habitat creation	An area of woodland habitat creation.	High Speed Two (HS2) Ltd	

High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 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 2022 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-ADEP

Map Name
**Index Map of:
 Construction Phase
 SES2 and AP2 ES**

Community Area ADEP:
 Annandale Depot

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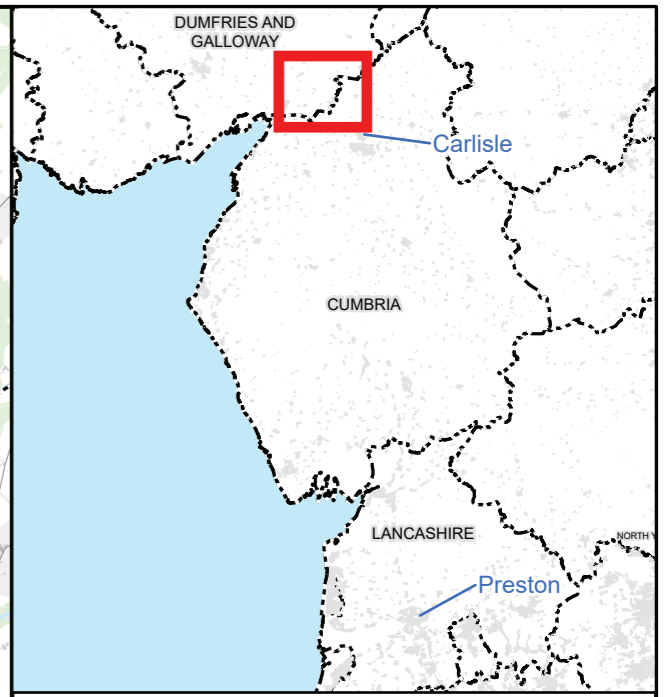
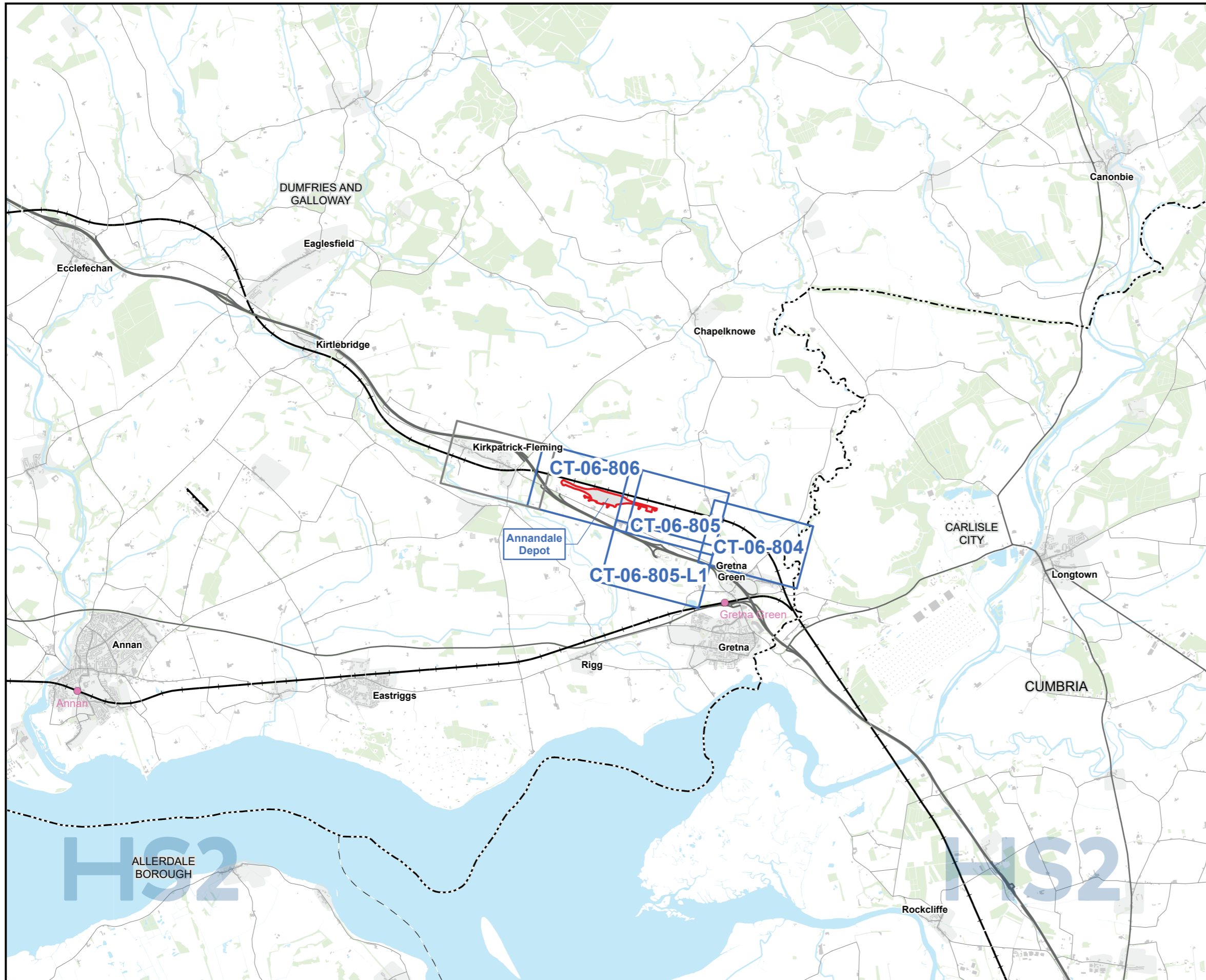
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Map Series Information:

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 2022 Ordnance Survey (OS) data.

Main Map Legend

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

Map Number	CT-06-INDEX-ADEP
Map Name	Index Map of: Proposed Scheme SES2 and AP2 ES
	Community Area ADEP: Annandale Depot

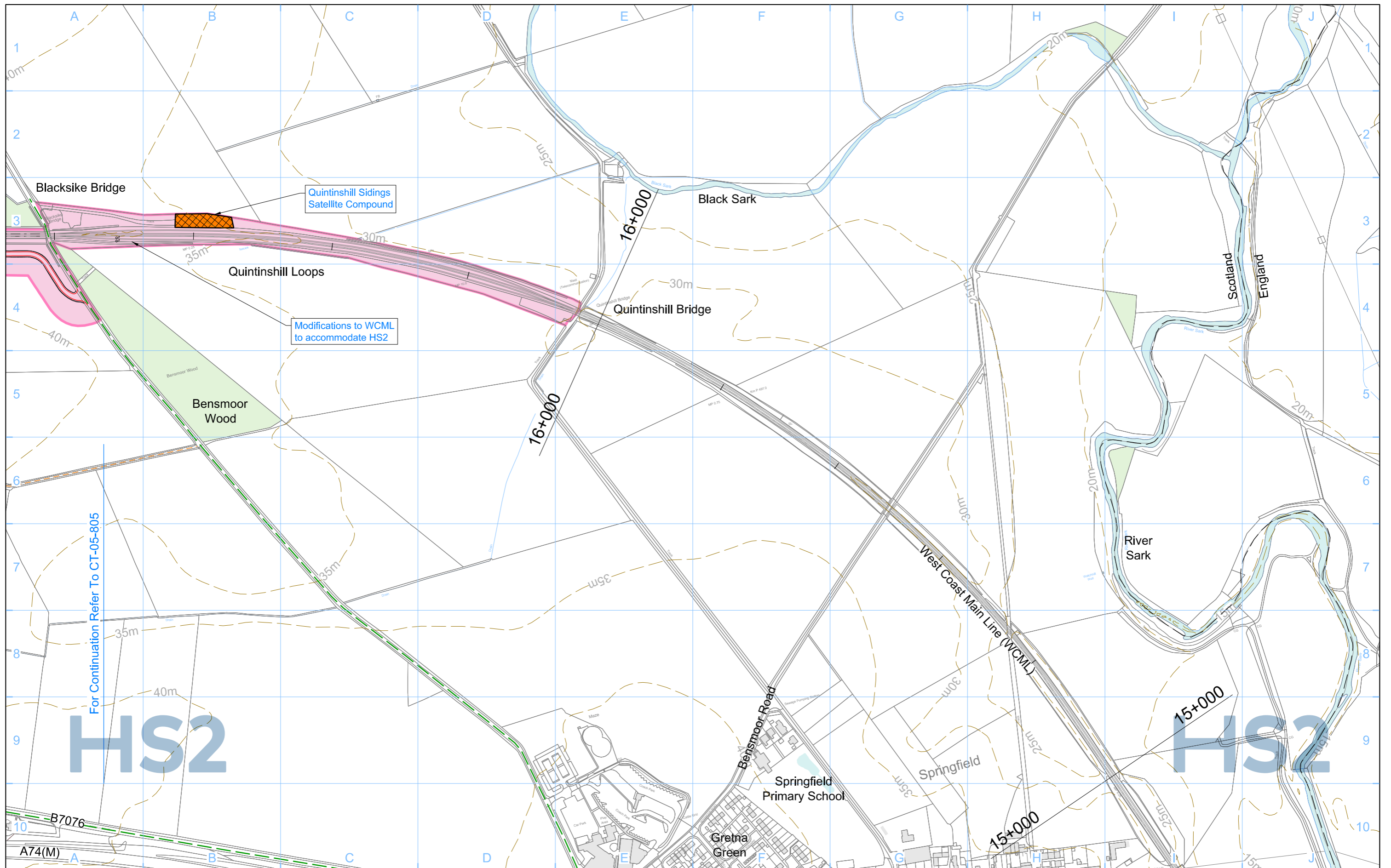
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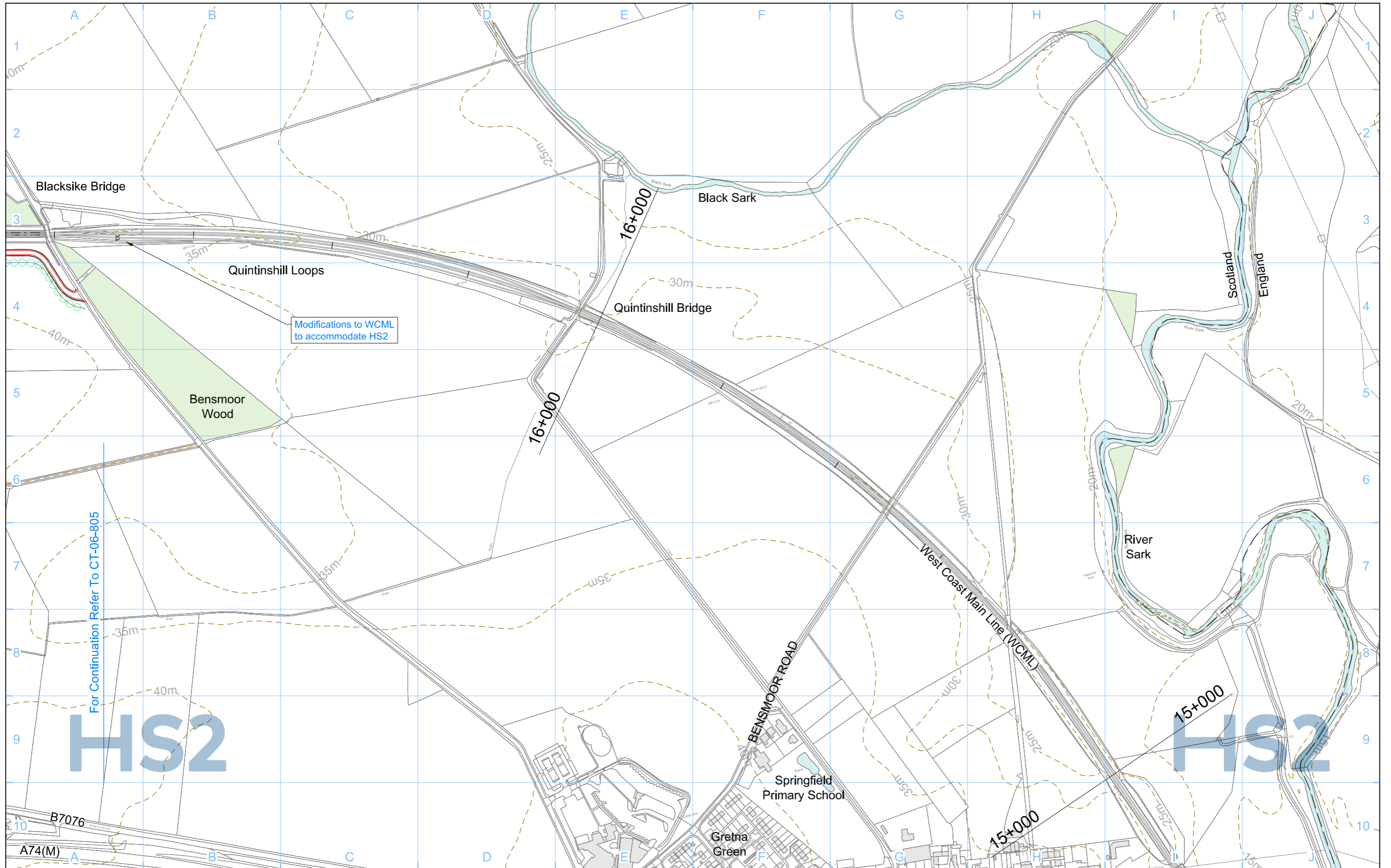
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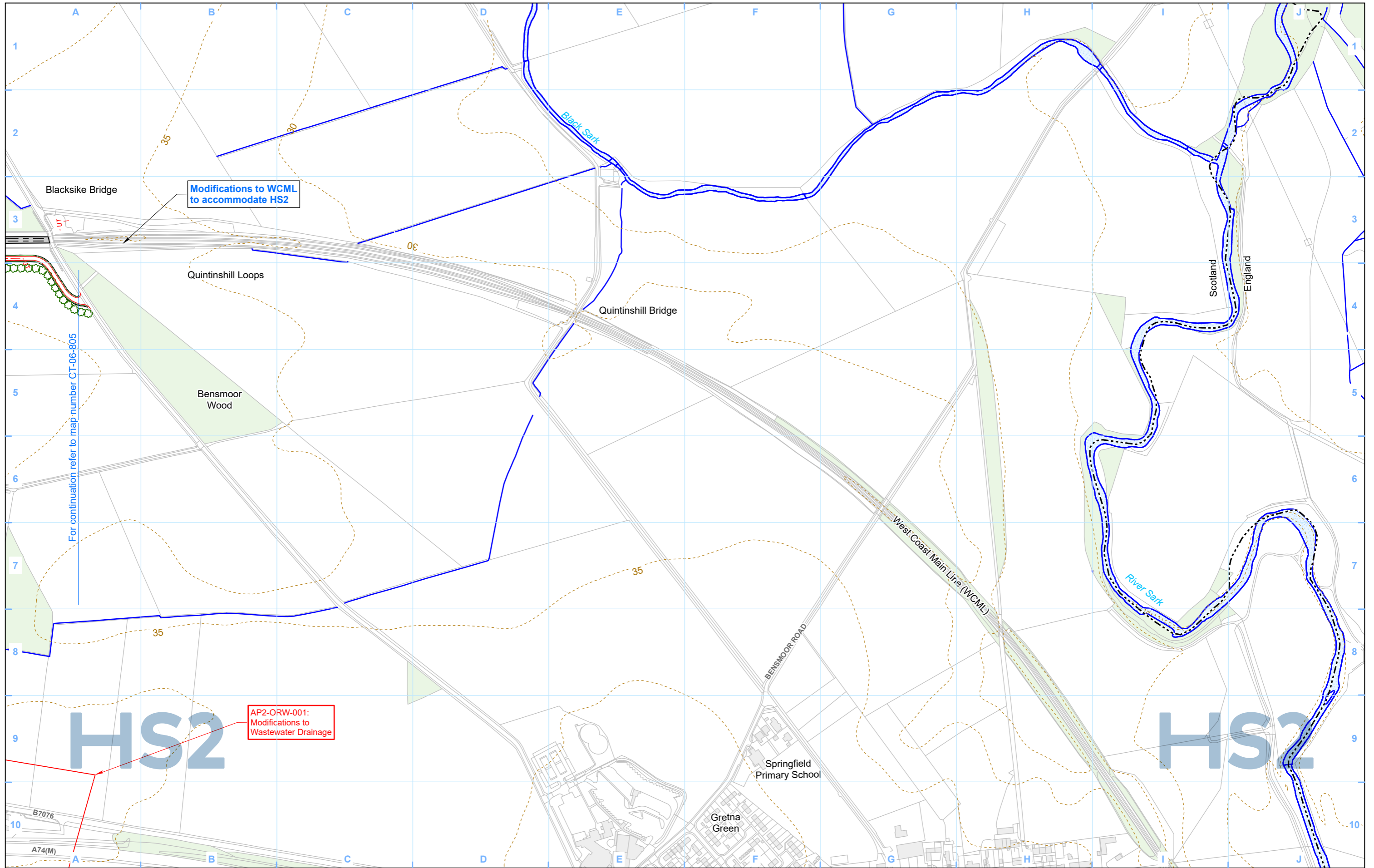
Doc Number: 2PT27-MWJ-EV-DSC-M000-600011-P03 Date: 04/04/23



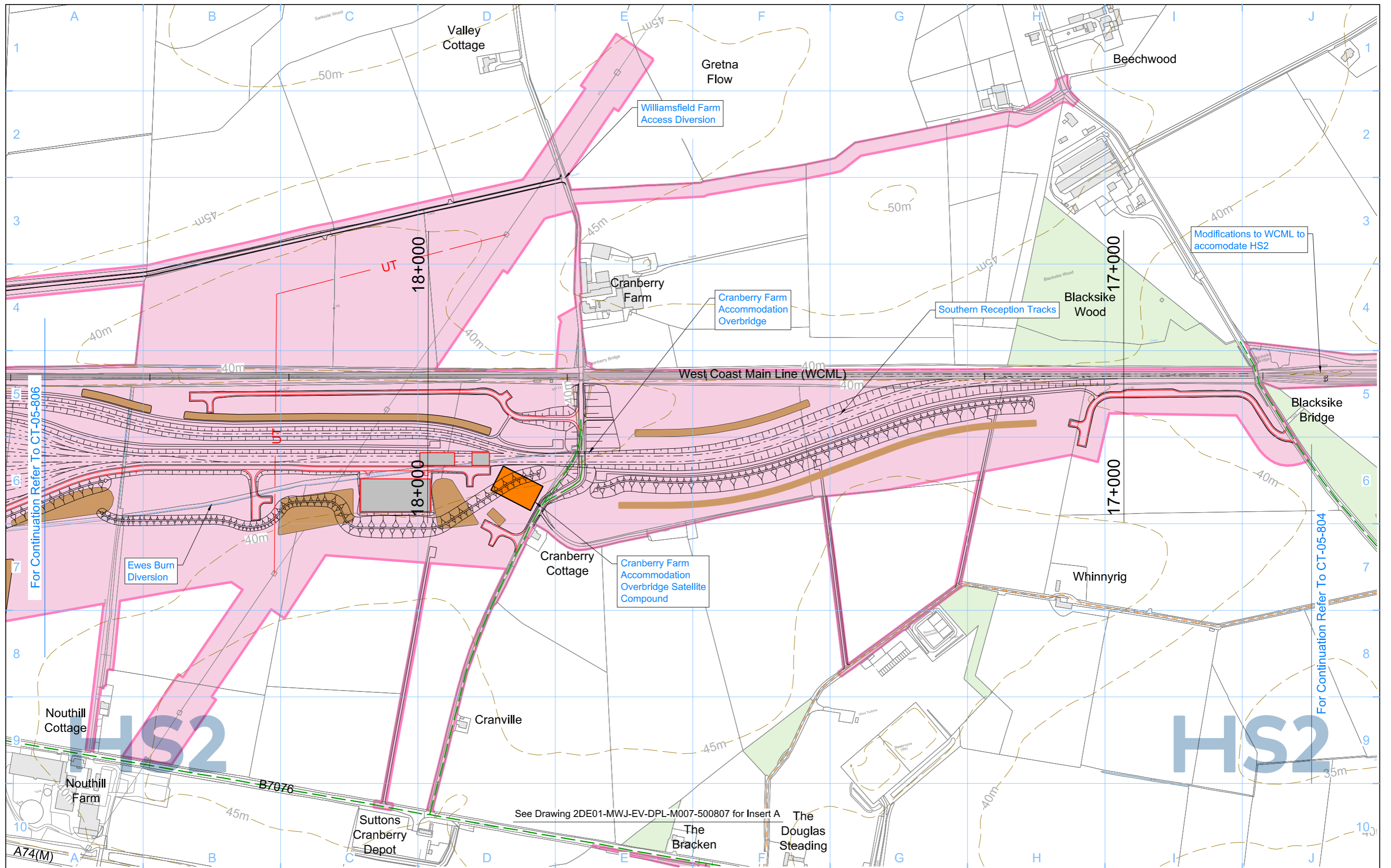
Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Main construction compounds Satellite construction compounds Railway systems compounds System railheads Temporary material stockpile Borrow pit Railway systems site Storage / prefabrication / laydown 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) 		<p>Map Number CT-05-804</p> <p>Map Name Construction Phase</p> <p>Community Area Off route – Annandale Depot</p>	<p>HS2</p> <p>Registered in England Registration No. 06791886 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-M007-500804 P05 Date: 10/08/21</p>
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Legend 											
Map Number CT-06-804			Map Name Proposed Scheme			Community Area Off route – Annandale Depot			HS2 <small>Registered in England Registration No. 06791886 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA</small>		
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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 Woodland habitat creation Wetland habitat creation Grassland 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 contours 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 buildings Existing woodland Existing inland water HS2 access Noise fence barrier Culvert	
Map Number CT-06-804		Map Name Proposed Scheme SES2 and AP2 ES		HS2 <small>Registered in England. Registration number 06791686. Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6GA.</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>	
Off-route ADEP: Annandale Depot		Scale at A3: 1:5,000 		<small>© Crown copyright and database rights 2022 OS 100049190</small>		<small>Doc Number: 2PT27-MWJ-EV-DPL-M007-600804-P03</small>	
				Date: 04/04/23			



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-05-805
Map Name	Construction Phase
Community Area	Off route - Annandale Depot

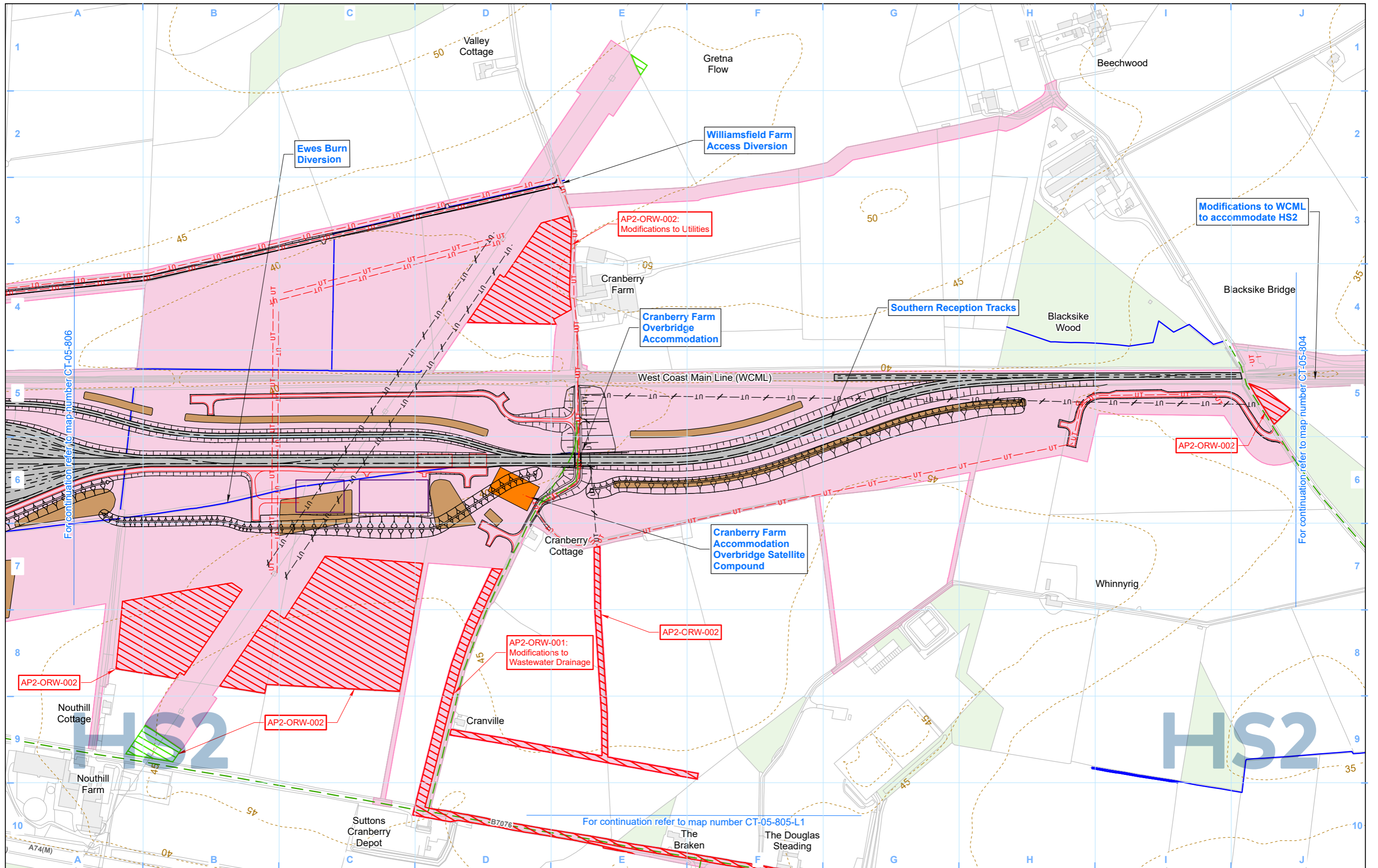
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Legend	
Depot, station, headhouse or portal building	Railway systems site
Tunnel portal	Storage / prefabrication / laydown areas
Main construction compound	Land potentially required during construction
Satellite construction compound	Land potentially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

Map Number: **CT-05-805**

Map Name: **Construction Phase SES2 and AP2 ES**

Off-route ADEP: **Annandale Depot**

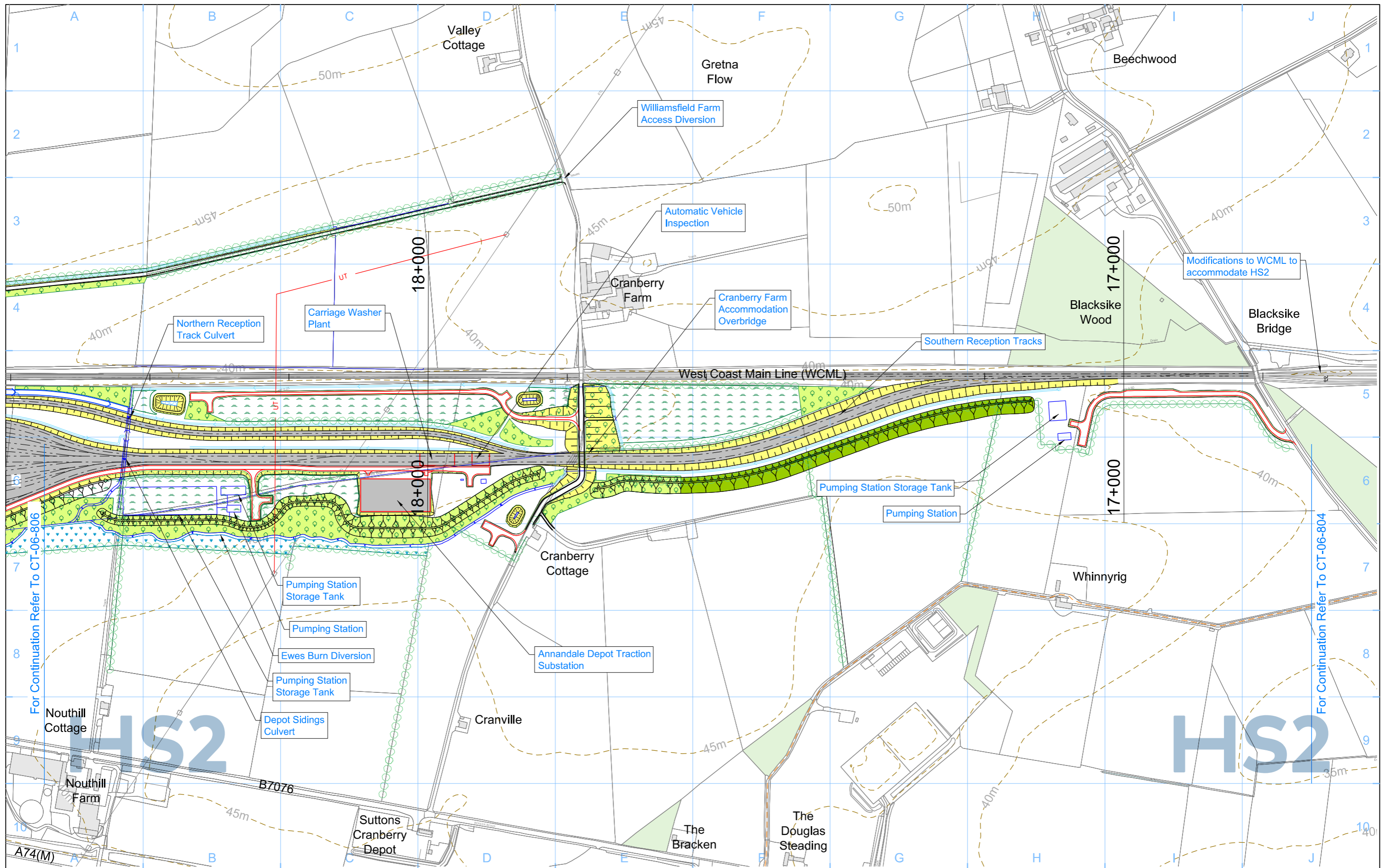
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Date: **04/04/23**



Legend

	Depot, station, headhouse or portal building		Pumping station		Local placement
	Tunnel portal		Woodland habitat creation		Returned to suitable development use
	Railway Systems Site		Wetland habitat creation		Hedgerow
	Ecological mitigation pond (Indicative only)		Grassland habitat creation		County boundary
	Balancing pond		Landscape mitigation planting (scrub / woodland)		Borough / District boundary
	Replacement floodplain storage area		Grassed areas		Community area boundary
			Public realm		Watercourse diversion
			Replacement Community Facility		Existing watercourse
					New ditches

	Engineering earthworks		Existing woodland
	Landscape earthworks		Existing buildings
	Rail alignment formation		Existing inland water
	Tunnels external extent		Existing contours
	Major utility works		HS2 access
	Existing public right of way		Noise fence barrier
	New, diverted or realigned public right of way		Rail alignment
	Public right of way closure		Chainage (e.g. 10+000)

Map Number	CT-06-805
Map Name	Proposed Scheme
Community Area	Annandale Depot

HS2

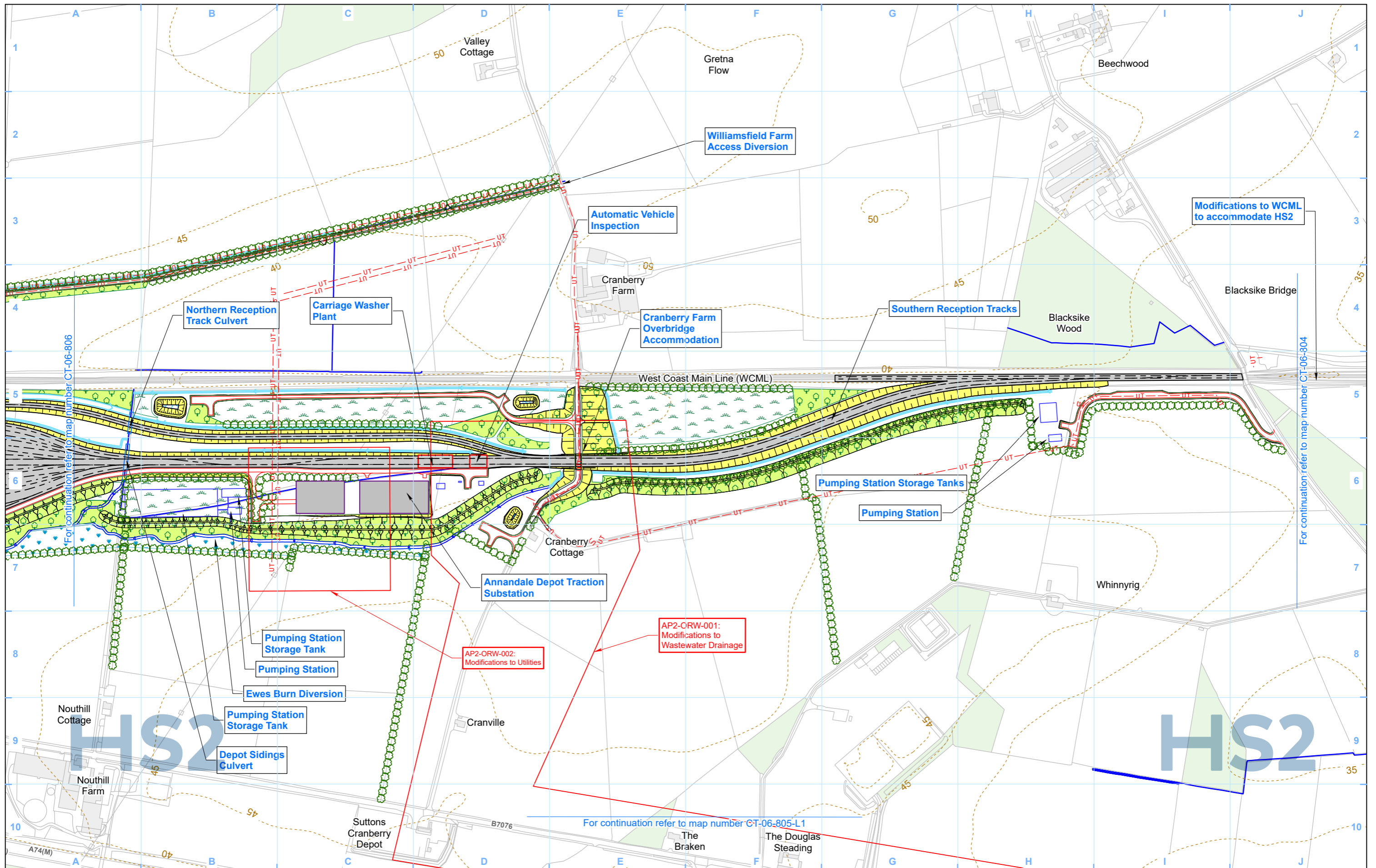
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Legend	
Depot, station, headhouse or portal building	Replacement floodplain storage area
Tunnel portal	Pumping station
Railway systems site	Woodland habitat creation
Ecological mitigation pond (Indicative only)	Wetland habitat creation
Balancing pond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

Map Number: CT-06-805

Map Name: Proposed Scheme SES2 and AP2 ES

Off-route ADEP: Annandale Depot

HS2

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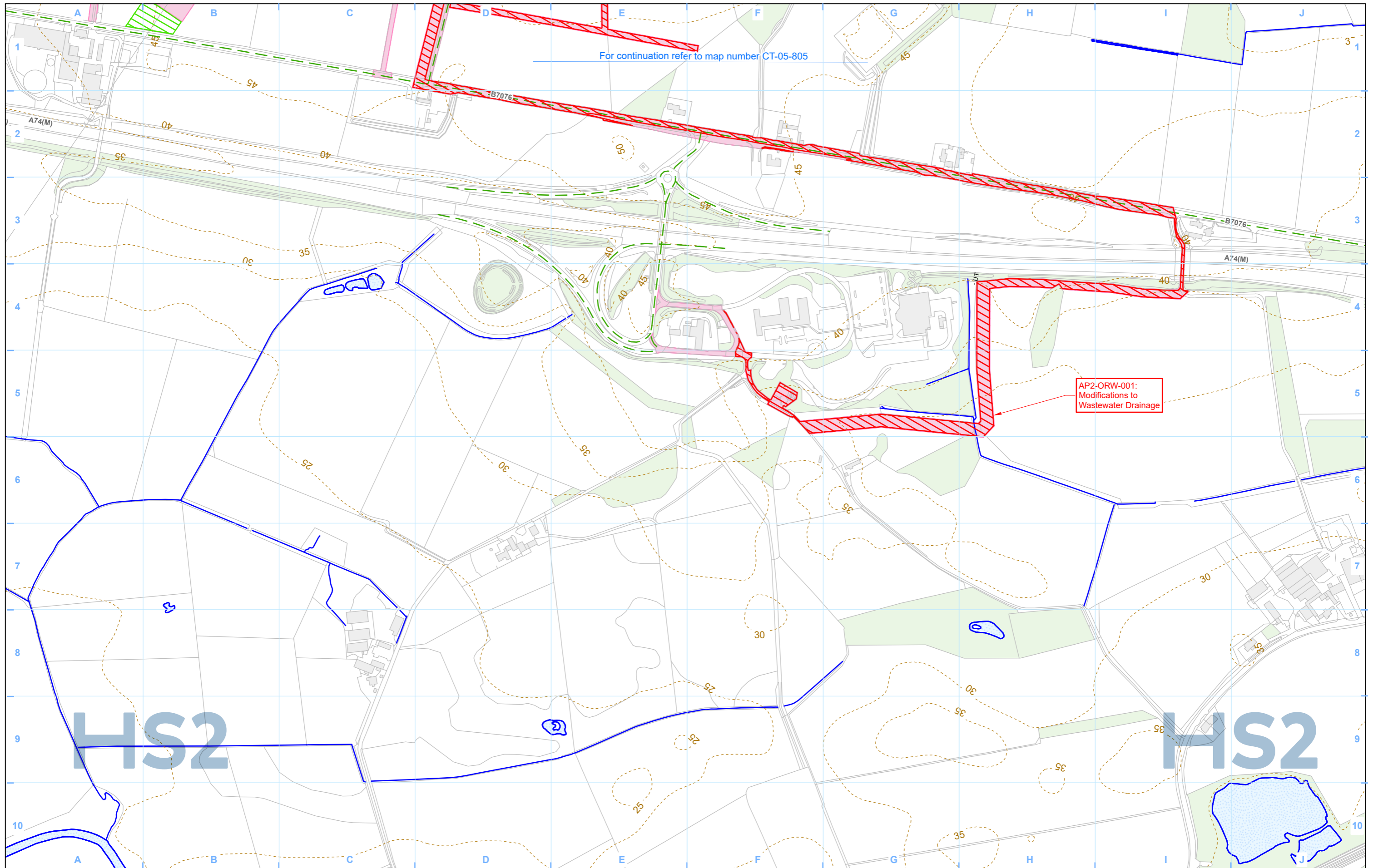
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Doc Number: 2PT27-MWJ-EV-DPL-M007-600805-P03

Date: 04/04/23

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For continuation refer to map number CT-05-805

AP2-ORW-001:
Modifications to
Wastewater Drainage

Legend	
Depot, station, headhouse or portal building	Railway systems site
Tunnel portal	Storage / prefabrication / laydown areas
Main construction compound	Land potentially required during construction
Satellite construction compound	Land potentially required for mitigation planting
Railway systems compounds	Temporary replacement community facility
System railheads	Rail alignment formation
Temporary material stockpile	Temporary workers accommodation
Borrow pit	Community area boundary
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 diversion / realignment
New, diverted or realigned public right of way	Temporary highway diversion / realignment
Landscape earthworks	Major utility works - Removed
Engineering earthworks	Rail alignment
Temporary public right of way closure	Additional land required at current AP
Major utility works	Land no longer required at current AP/SES
Major utility works - Removed	Additional land required at a previous AP
Major utility works - Removed	Land no longer required at a previous AP/SES
Major utility works - Removed	Additional land required at current AP
Major utility works - Removed	Land no longer required at current AP/SES
Major utility works - Removed	Additional land required at a previous AP
Major utility works - Removed	Land no longer required at a previous AP/SES

County boundary	Rail alignment
Borough / District boundary	Additional land required at current AP
Tunnels external extent	Land no longer required at current AP/SES
Existing buildings	Additional land required at a previous AP
Existing woodland	Land no longer required at a previous AP/SES
Existing inland water	
Existing contours	
Existing watercourse	
HS2 access	

Map Number	CT-05-805-L1
Map Name	Construction Phase SES2 and AP2 ES
	Off-route ADEP: Annandale Depot

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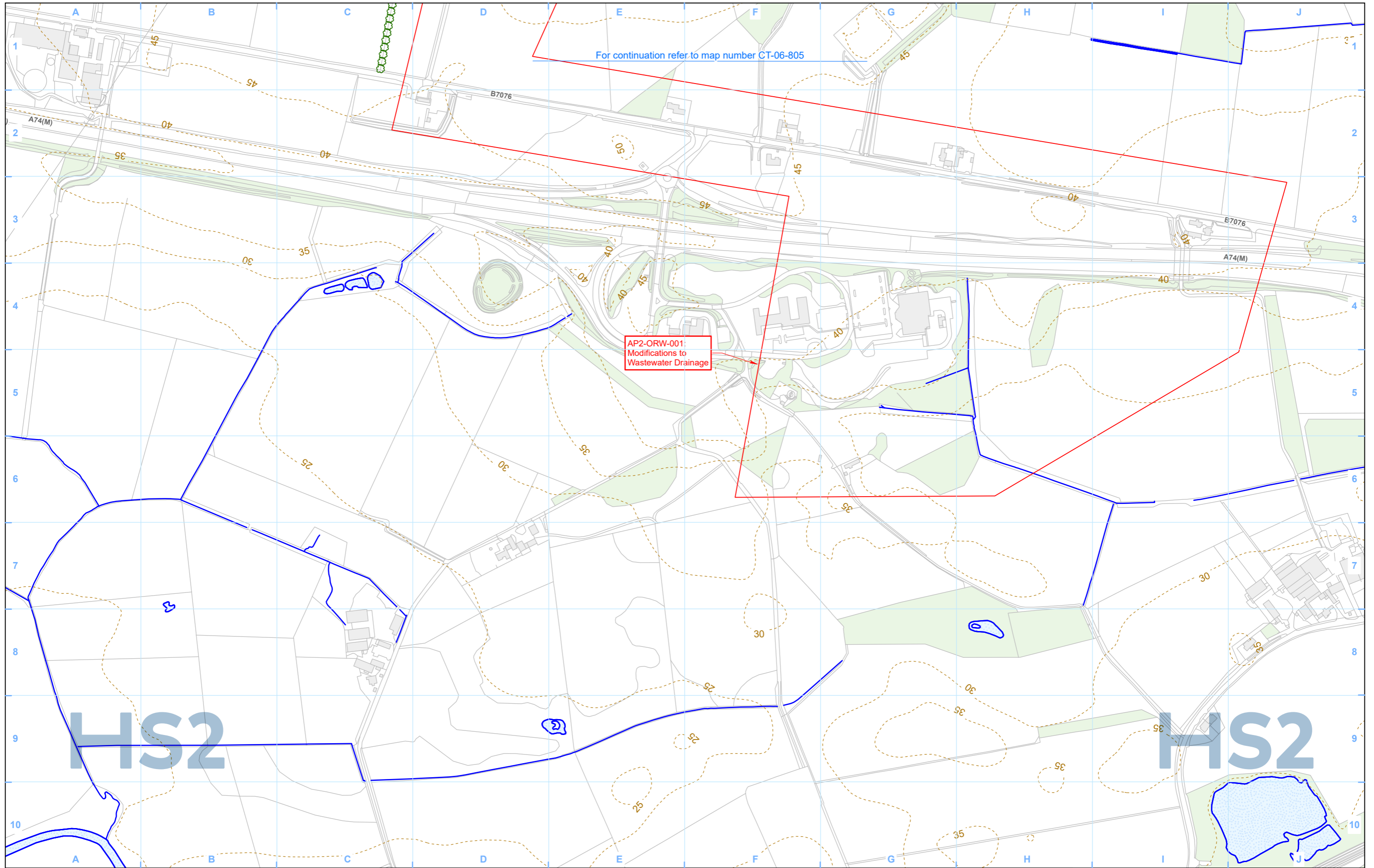
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Scale at A3: 1:5,000

Metres

Date: 04/04/23

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For continuation refer to map number CT-06-805

AP2-ORW-001:
Modifications to
Wastewater Drainage

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
- Woodland habitat creation
- Wetland habitat creation
- Grassland habitat creation
- Landscape mitigation planting (scrub / woodland)
- Hedgerow

- Grassed areas
- Public realm
- Replacement community facility
- Returned to suitable development use
- Local placement
- Hedgerow

- County boundary
- Borough / District boundary
- Community area boundary
- New ditches
- Existing contours
- 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 buildings
- Existing woodland
- Existing inland water
- HS2 access
- Noise fence barrier
- Rail alignment
- Culvert

Map Number: CT-06-805-L1

Map Name: Proposed Scheme SES2 and AP2 ES

Off-route ADEP: Annandale Depot

HS2

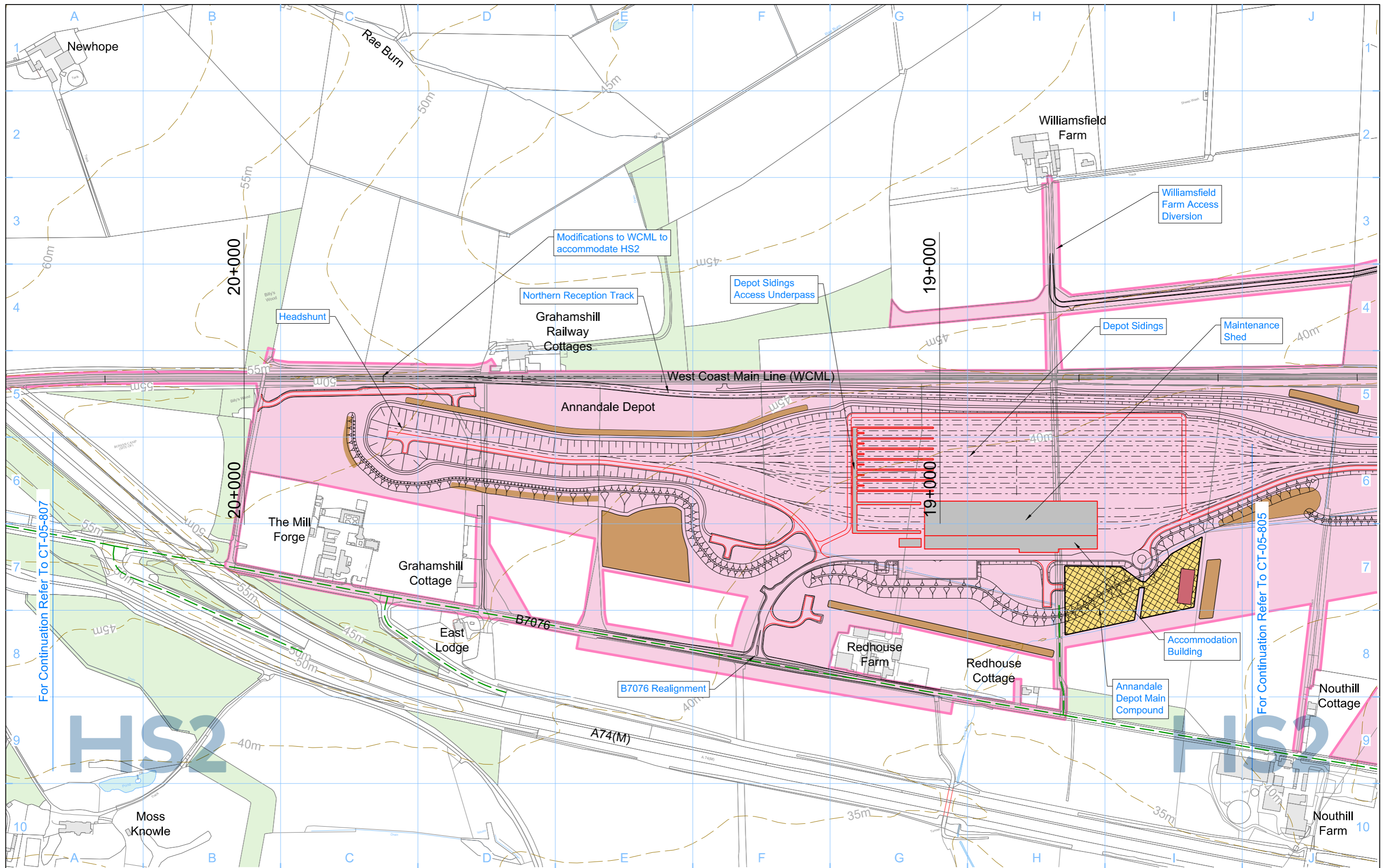
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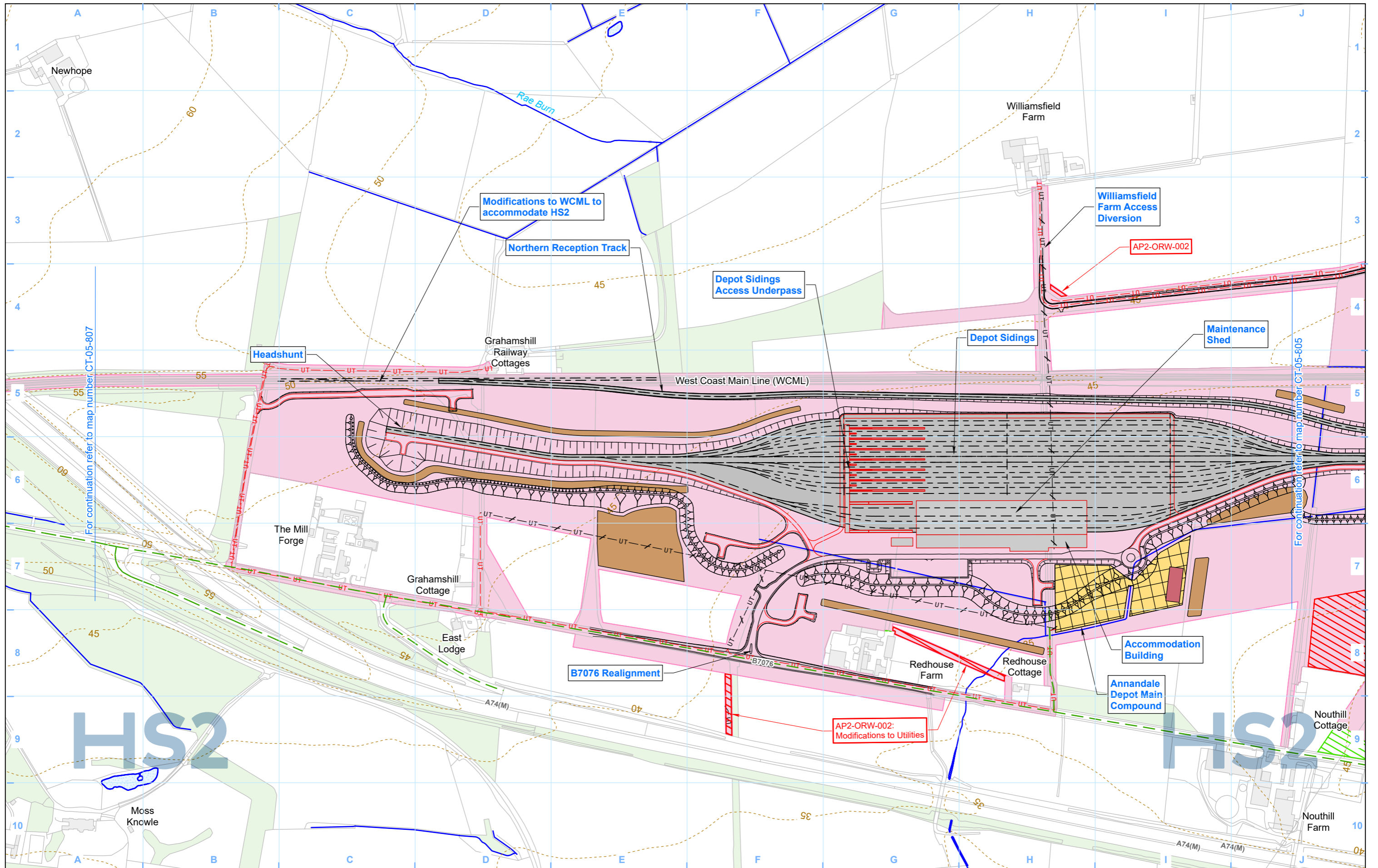
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For Continuation Refer To CT-05-807

For Continuation Refer To CT-05-805

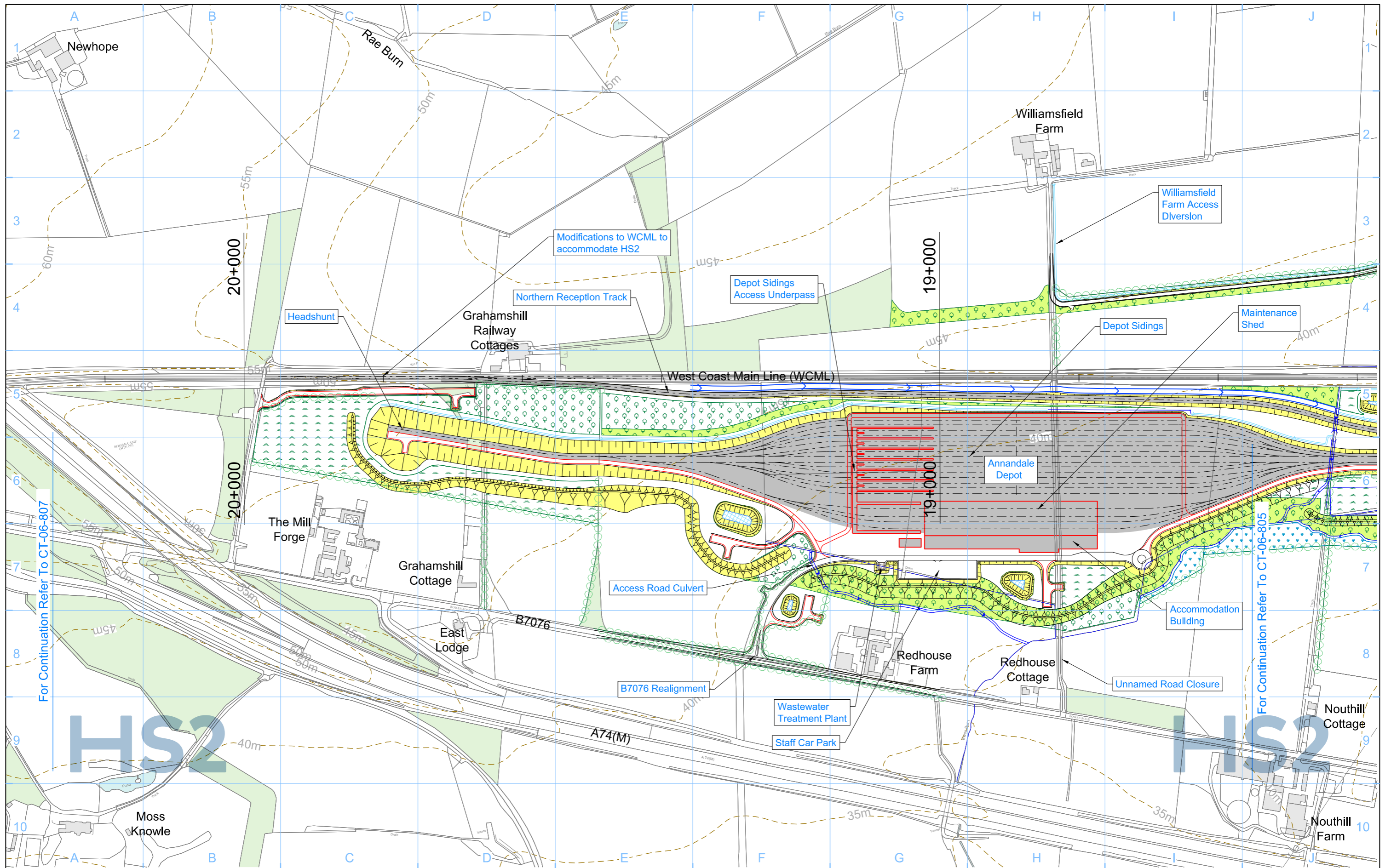
Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Main construction compounds Satellite construction compounds Railway systems compounds System railheads Temporary material stockpile Borrow pit Railway systems site Storage / prefabrication / laydown 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) 		<p>Map Number CT-05-806</p> <p>Map Name Construction Phase</p> <p>Community Area Off route – Annandale Depot</p>	<p>HS2</p> <p>Registered in England Registration No. 06791886 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-M007-500806 P05 Date: 10/08/21</p>
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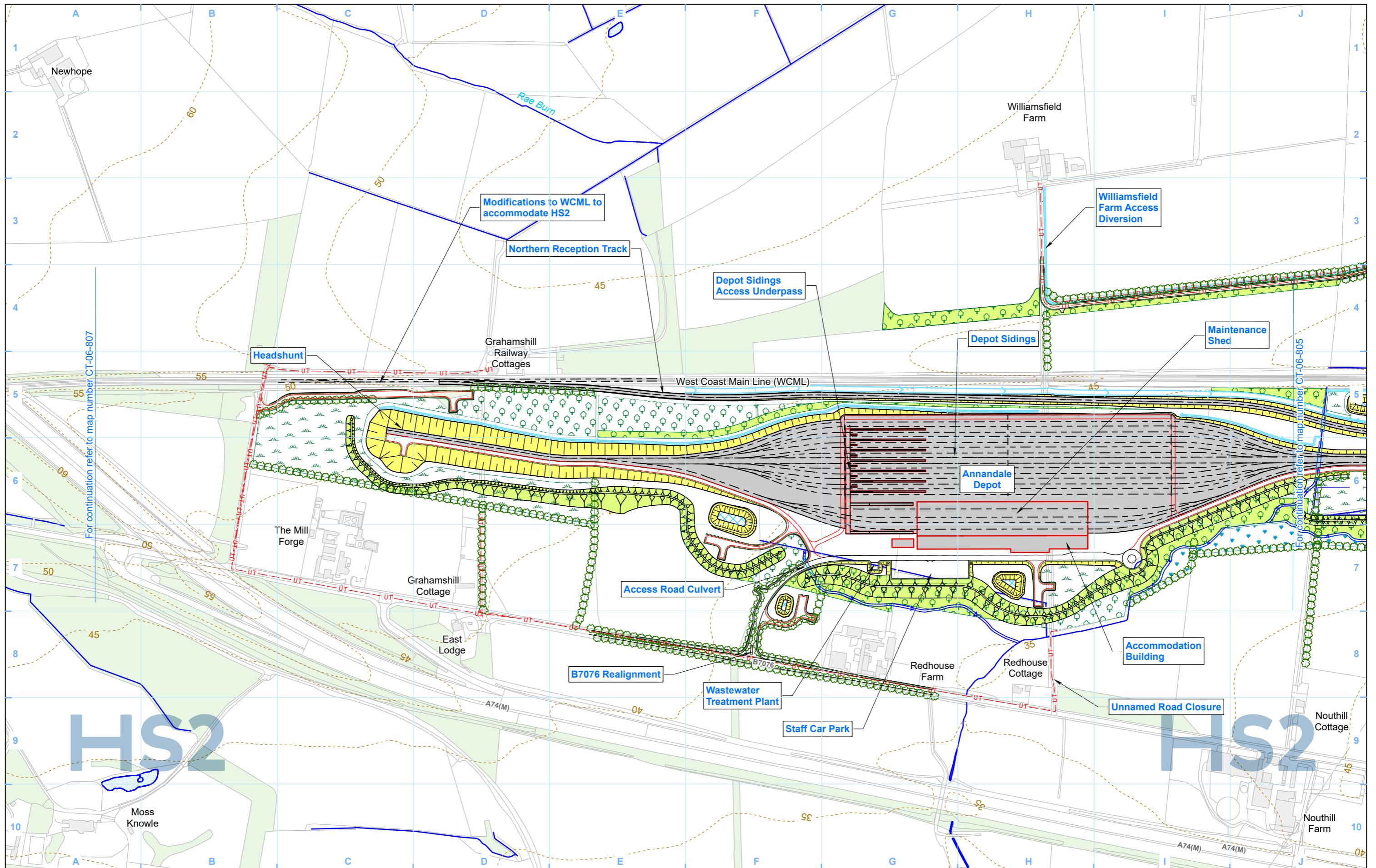
For continuation refer to map number CT-05-807

For continuation refer to map number CT-05-805

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 Temporary highway diversion / realignment Major utility works Major utility works - Removed County boundary Borough / District boundary Tunnels external extent Existing buildings Existing woodland Existing inland water Existing contours Existing watercourse HS2 access Rail alignment Additional land required at current AP Land no longer required at current AP/SES Additional land required at a previous AP Land no longer required at a previous AP/SES 		<p>Map Number: CT-05-806</p> <p>Map Name: Construction Phase SES2 and AP2 ES</p> <p>Off-route ADEP: Annandale Depot</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 2022 OS 100049190</p> <p>Doc Number: 2PT27-MWJ-EV-DPL-M007-500806-P03</p> <p>Date: 04/04/23</p>
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Legend 		Map Information Map Number: CT-06-806 Map Name: Proposed Scheme Community Area: Off route – Annandale Depot		 Registered in England Registration No. 06791886 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-M007-600806 P06 Date: 10/08/21	
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Legend	
Depot, station, headhouse or portal building	Replacement floodplain storage area
Tunnel portal	Pumping station
Railway systems site	Woodland habitat creation
Ecological mitigation pond (Indicative only)	Wetland habitat creation
Balancing pond	Grassland habitat creation
Landscape mitigation planting (scrub / woodland)	Hedgerow
Grassed areas	Public realm
Replacement community facility	Returned to suitable development use
Local placement	Hedgerow
County boundary	Borough / District boundary
Community area boundary	New ditches
Existing watercourse	Watercourse diversion
Engineering earthworks	Major utility works
Landscape earthworks	Rail alignment formation
Rail alignment formation	Tunnels external extent
Tunnels external extent	Existing public right of way
Major utility works	Existing contours
Existing public right of way	New, diverted or realigned public right of way
New, diverted or realigned public right of way	Public right of way closure
Public right of way closure	Existing buildings
Existing buildings	Existing woodland
Existing woodland	Existing inland water
Existing inland water	HS2 access
HS2 access	Noise fence barrier
Noise fence barrier	Rail alignment
Rail alignment	Culvert
Culvert	

Map Number: CT-06-806

Map Name: Proposed Scheme SES2 and AP2 ES

Off-route ADEP: Annandale Depot

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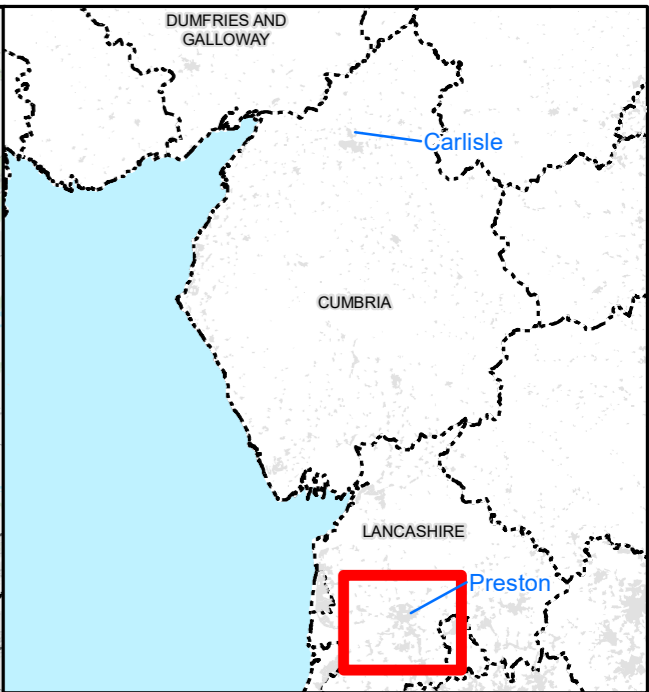
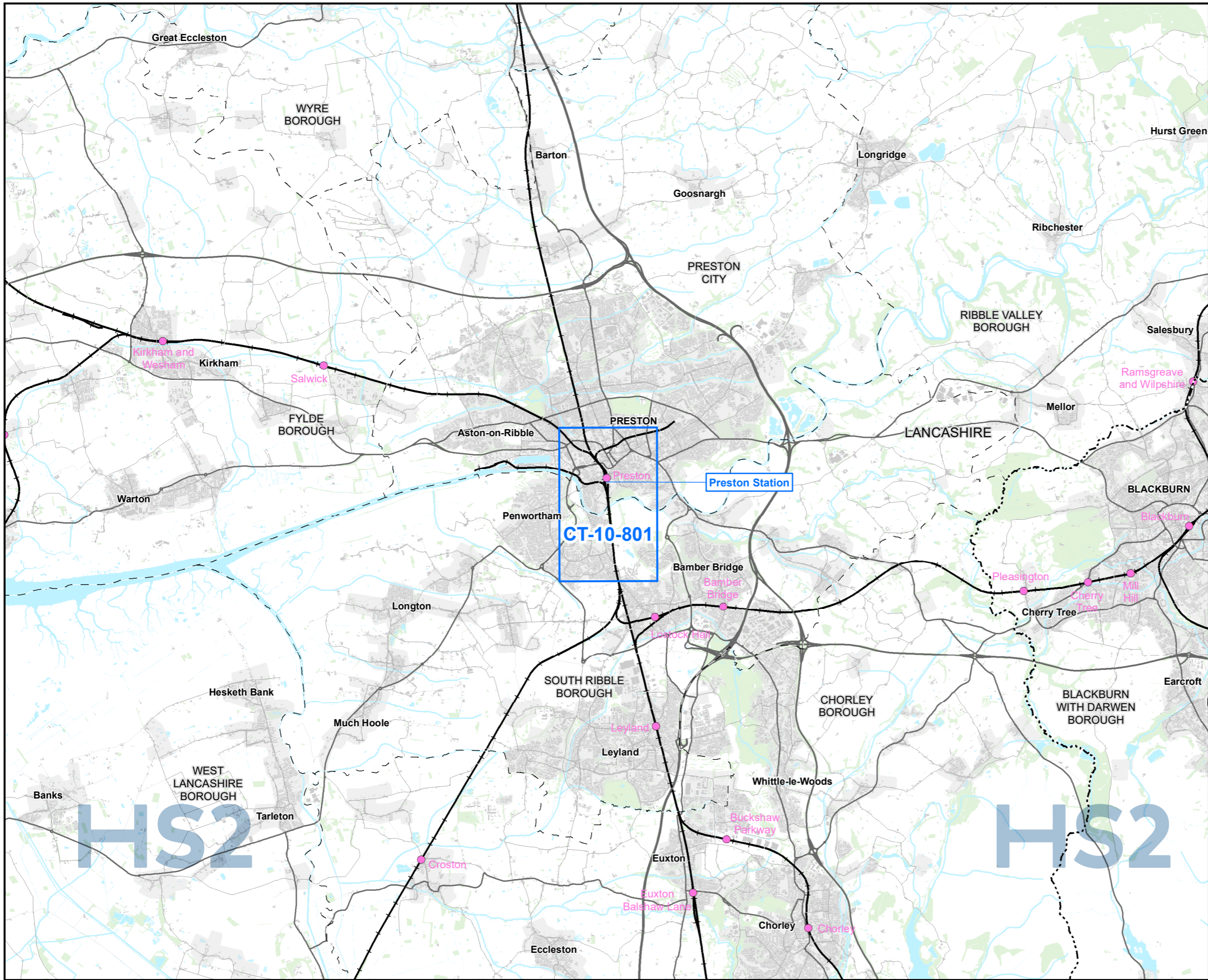
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**High Speed Rail
(Crewe – Manchester)**

**Supplementary Environmental Statement 2 and
Additional Provision 2 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/Unitary Authority 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-PSTN
Map Name	Index Map of: Environmental Baseline SES2 and AP2 ES
	Off-route PSTN: Preston Station

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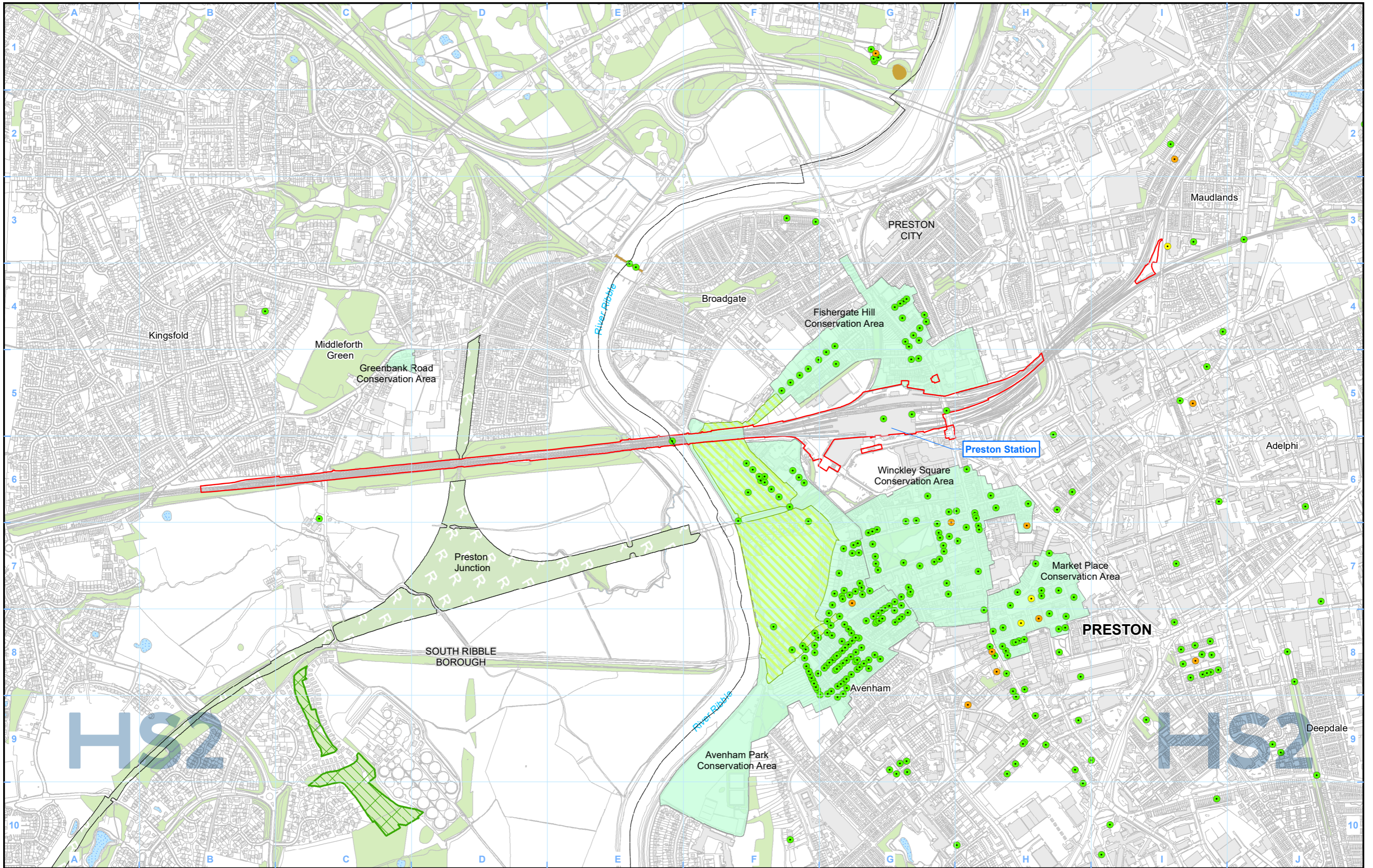
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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Conservation 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-10-801
Map Name	Environmental Baseline
Off-route PSTN:	Preston Station

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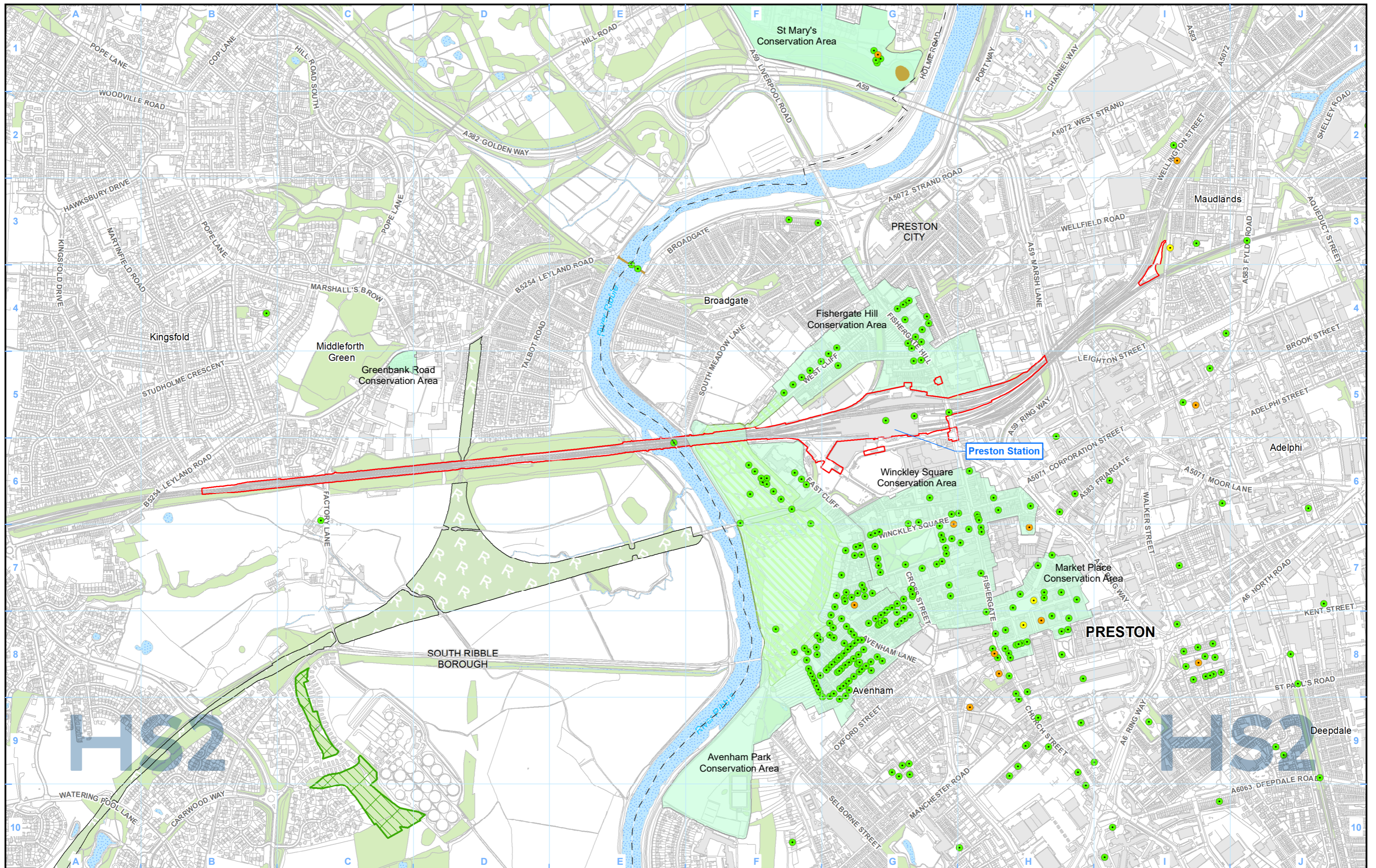
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Metres

Date: 12/08/21



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County/Unitary Authority 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-10-801
Map Name	Environmental Baseline SES2 and AP2 ES
Off-route PSTN:	Preston Station

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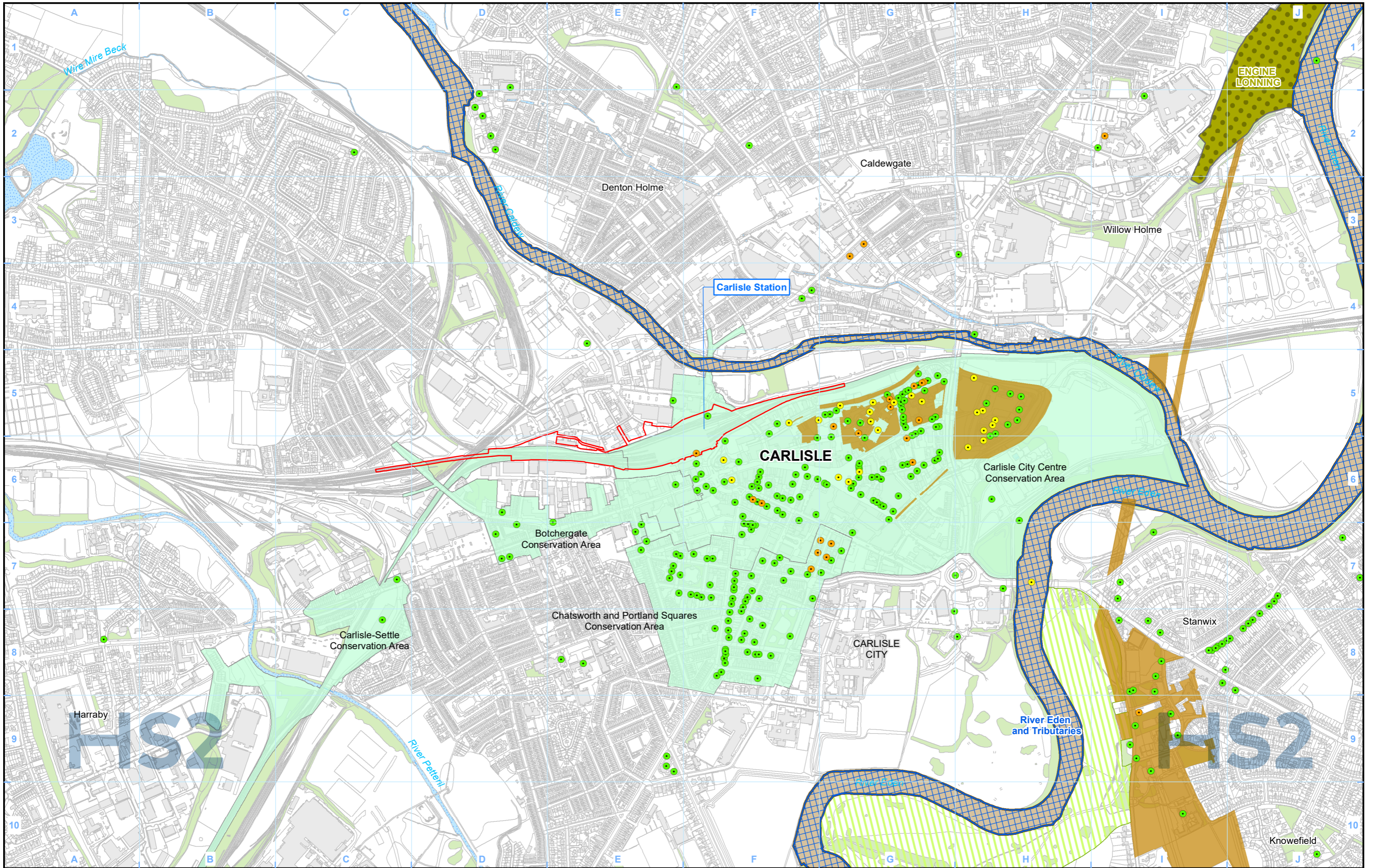
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Metres

Date: 28/03/23



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)
- National Nature Reserve (NNR)
- Local Nature Reserve (LNR)
- Local Wildlife Sites (LWS)
- Ancient Woodland Inventory Sites (AWIS)
- Ramsar Site
- Site of Special Scientific Interest (SSSI)

Map Number	CT-10-802
Map Name	Environmental Baseline
Off-route CSTN:	Carlisle Station

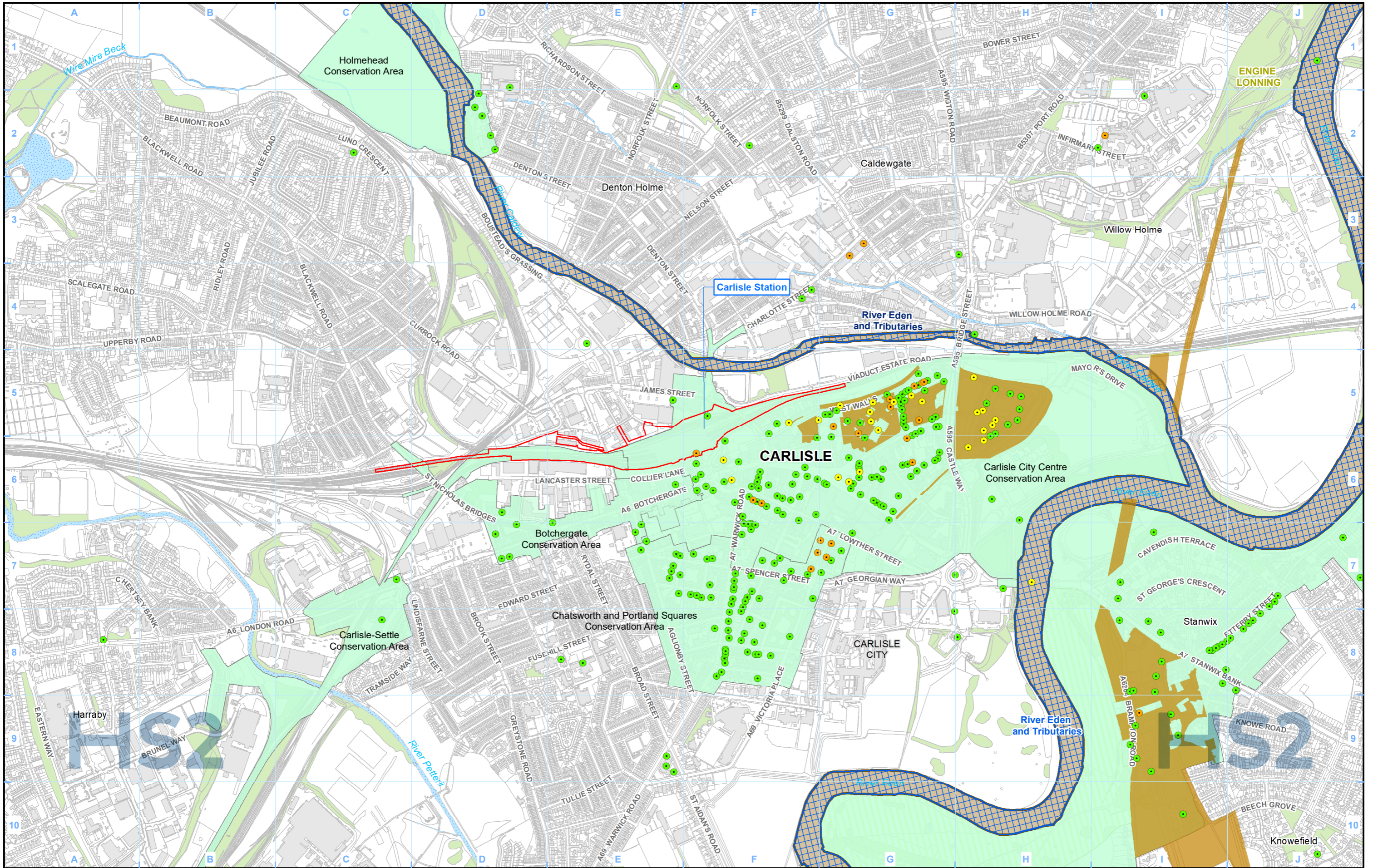
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Legend	
Route in tunnel	Watercourse
Route on surface	Water body
Depot, station, headhouse or portal building	Conservation Area
Land potentially required during construction	Scheduled monument
Community area boundary	Listed building grade I
County/Unitary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

Map Number	CT-10-802
Map Name	Environmental Baseline SES2 and AP2 ES
Off-route CSTN:	Carlisle Station

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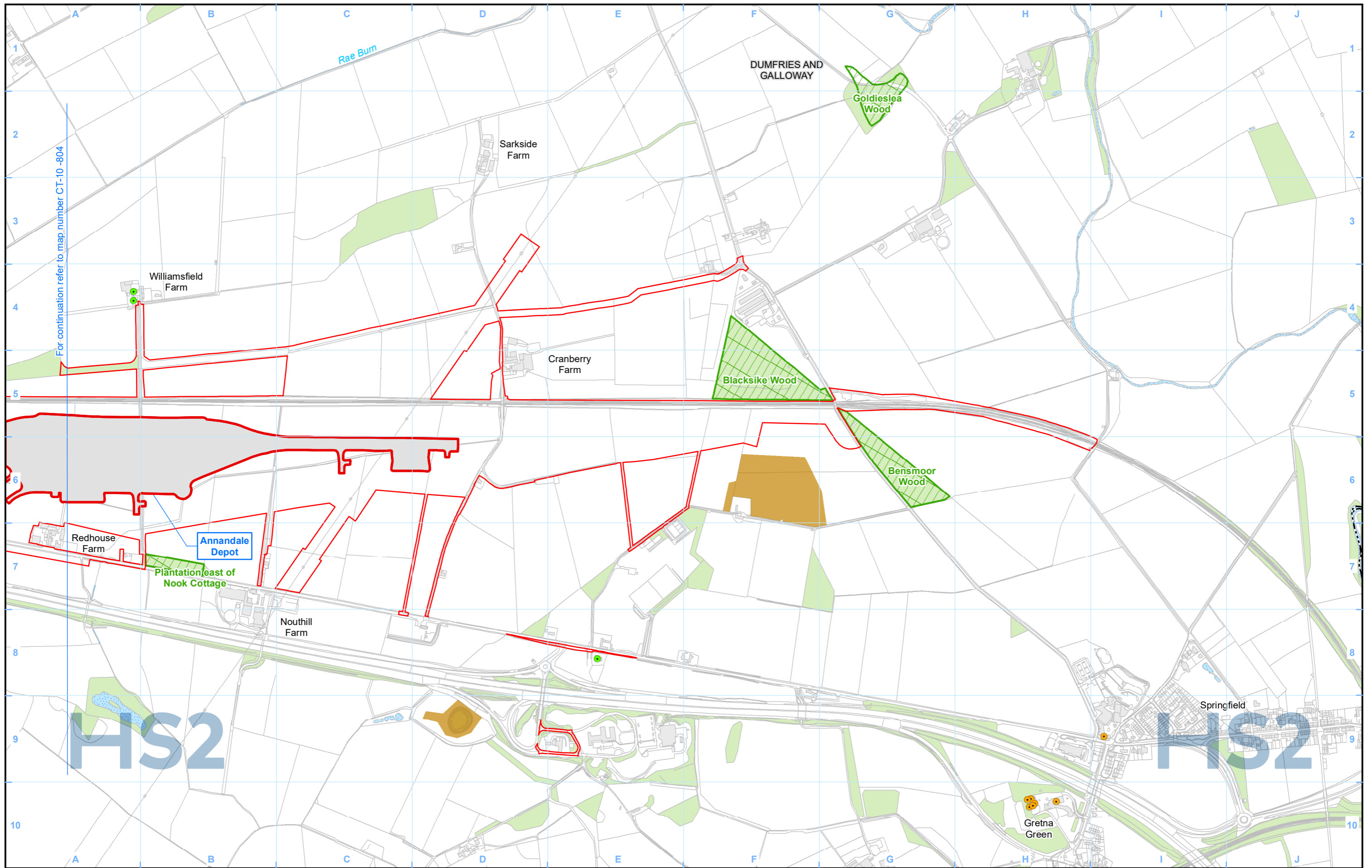
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Metres

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Date: 28/03/23



For continuation refer to map number CT-10-804

Legend				

Map Number	CT-10-803
Map Name	Environmental Baseline
Off-route ADEP: Annandale Depot	

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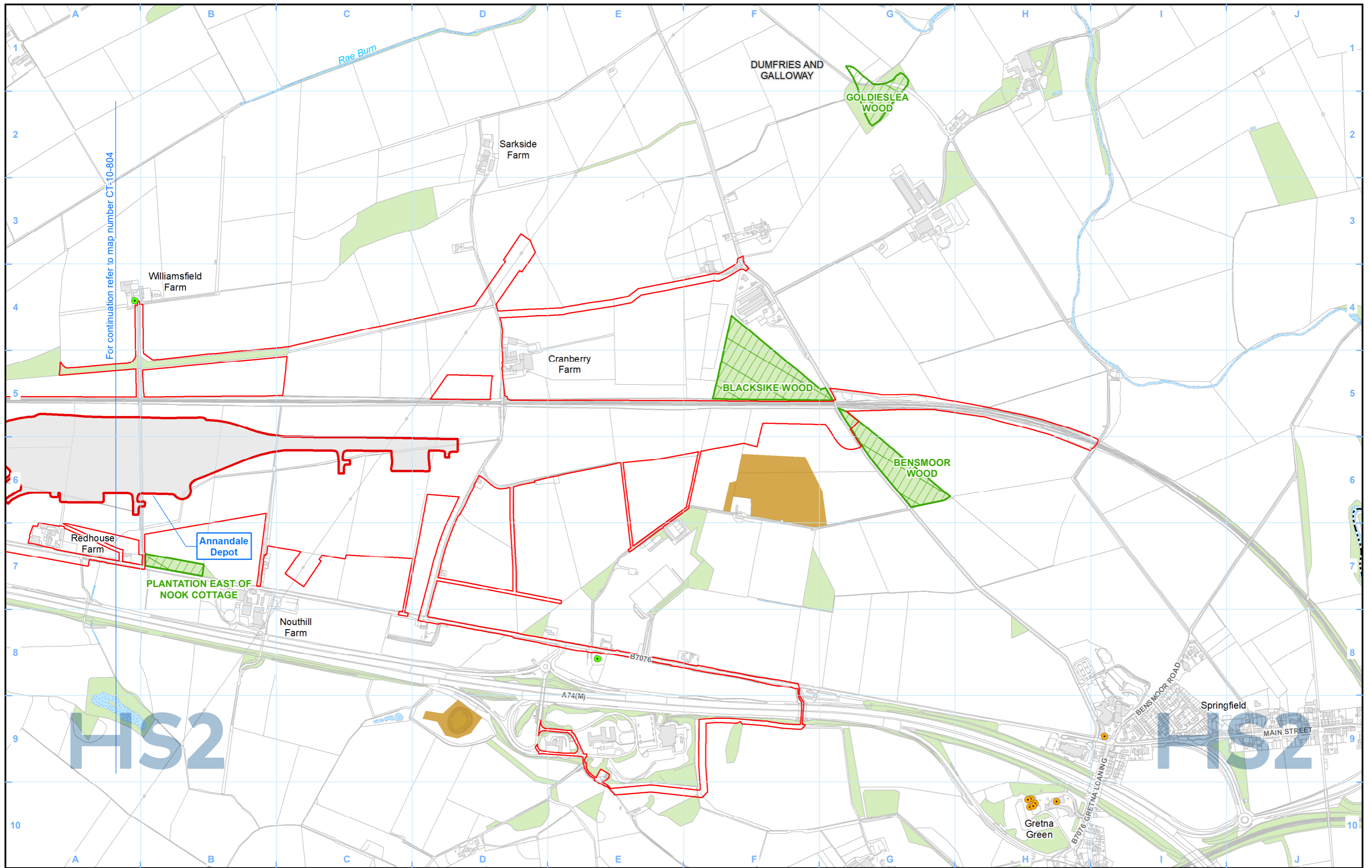
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Date: 12/08/21



For continuation refer to map number CT-10-804

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County/Unitary Authority 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-10-803
Map Name	Environmental Baseline SES2 and AP2 ES
Off-route ADEP:	Annandale Depot

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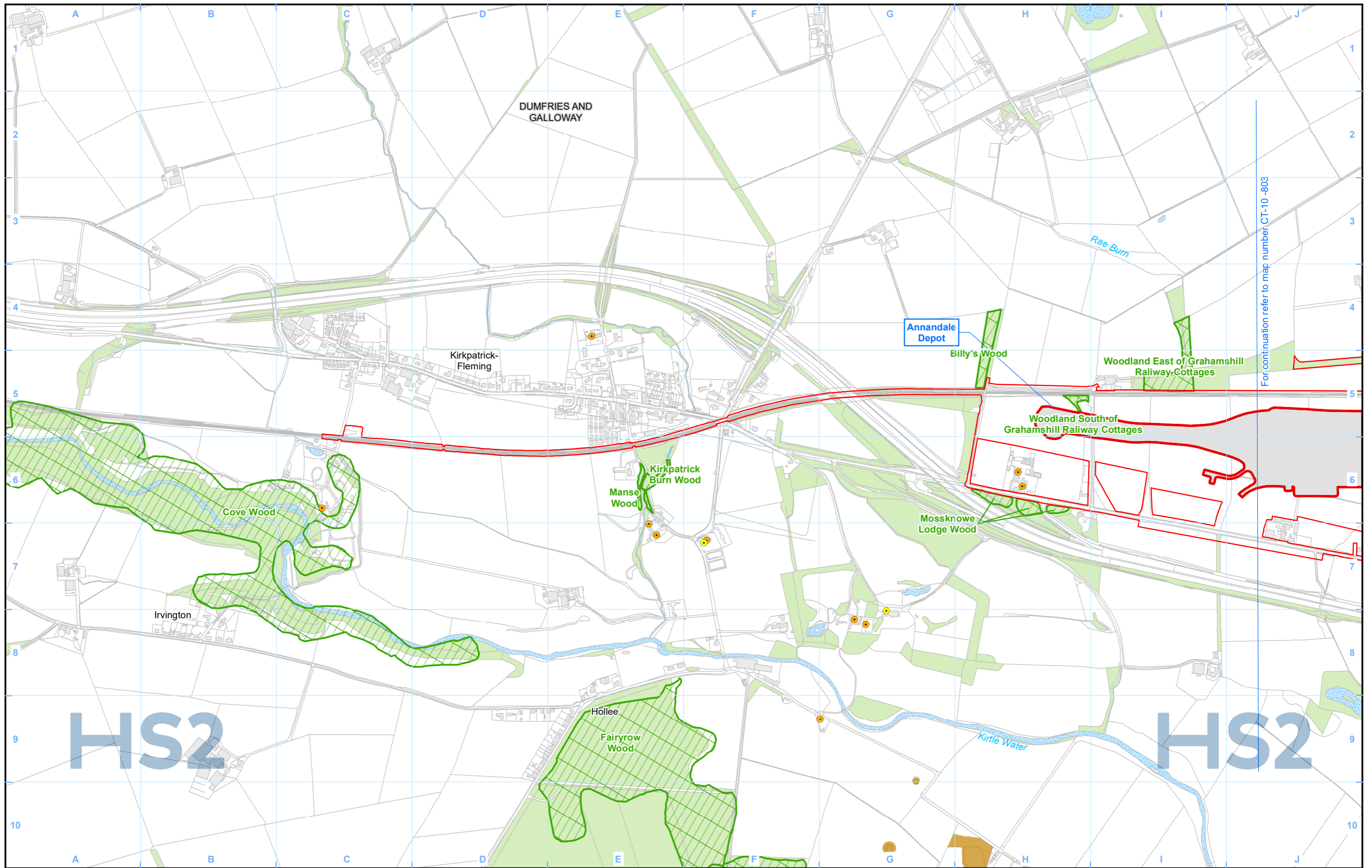
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For continuation refer to map number CT-10-803

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Legend				

Map Number	CT-10-804
Map Name	Environmental Baseline
Off-route ADEP: Annandale Depot	

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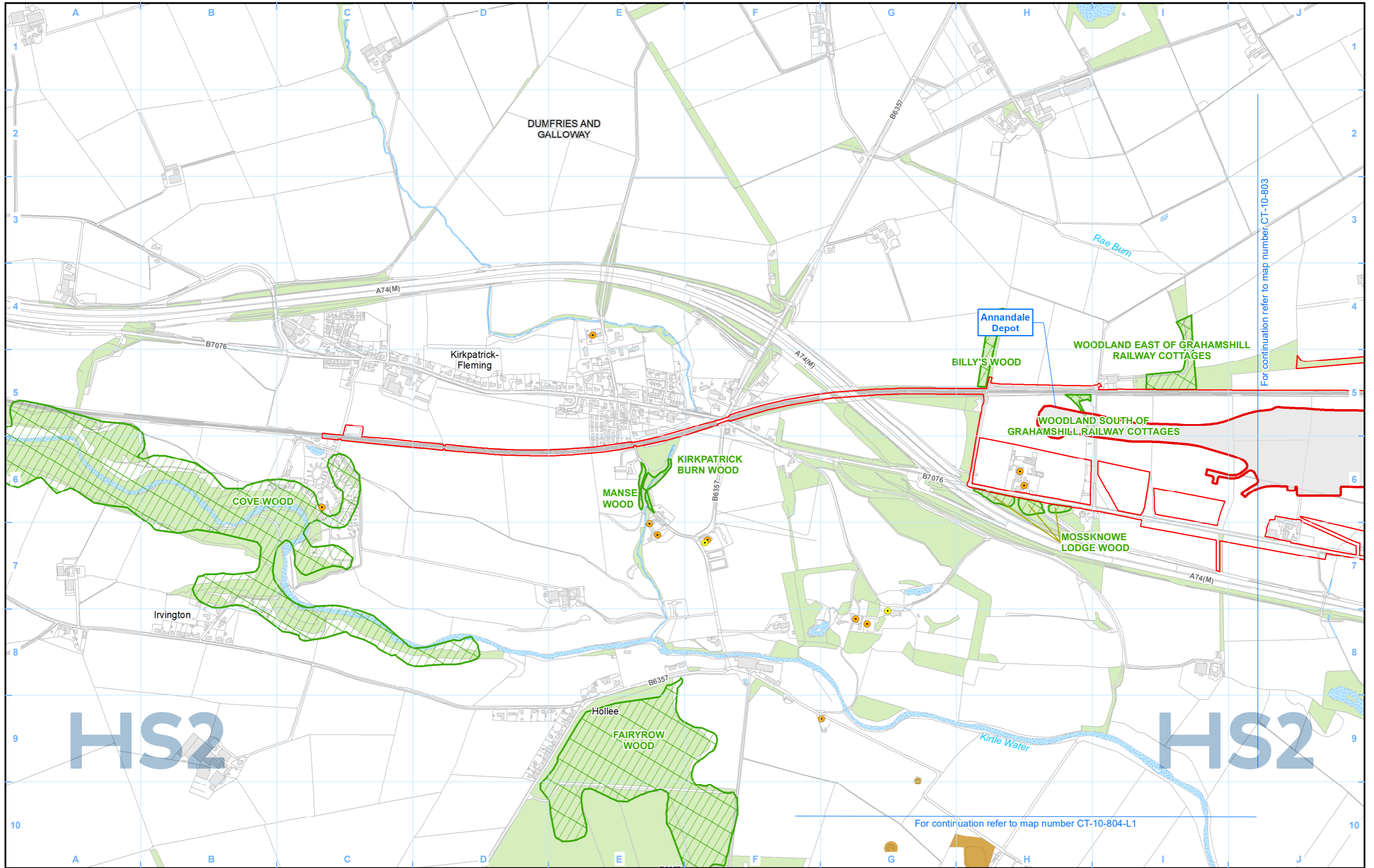
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For continuation refer to map number CT-10-803

For continuation refer to map number CT-10-804-L1

Legend				

Map Number	CT-10-804
Map Name	Environmental Baseline SES2 and AP2 ES
Off-route ADEP:	Annandale Depot

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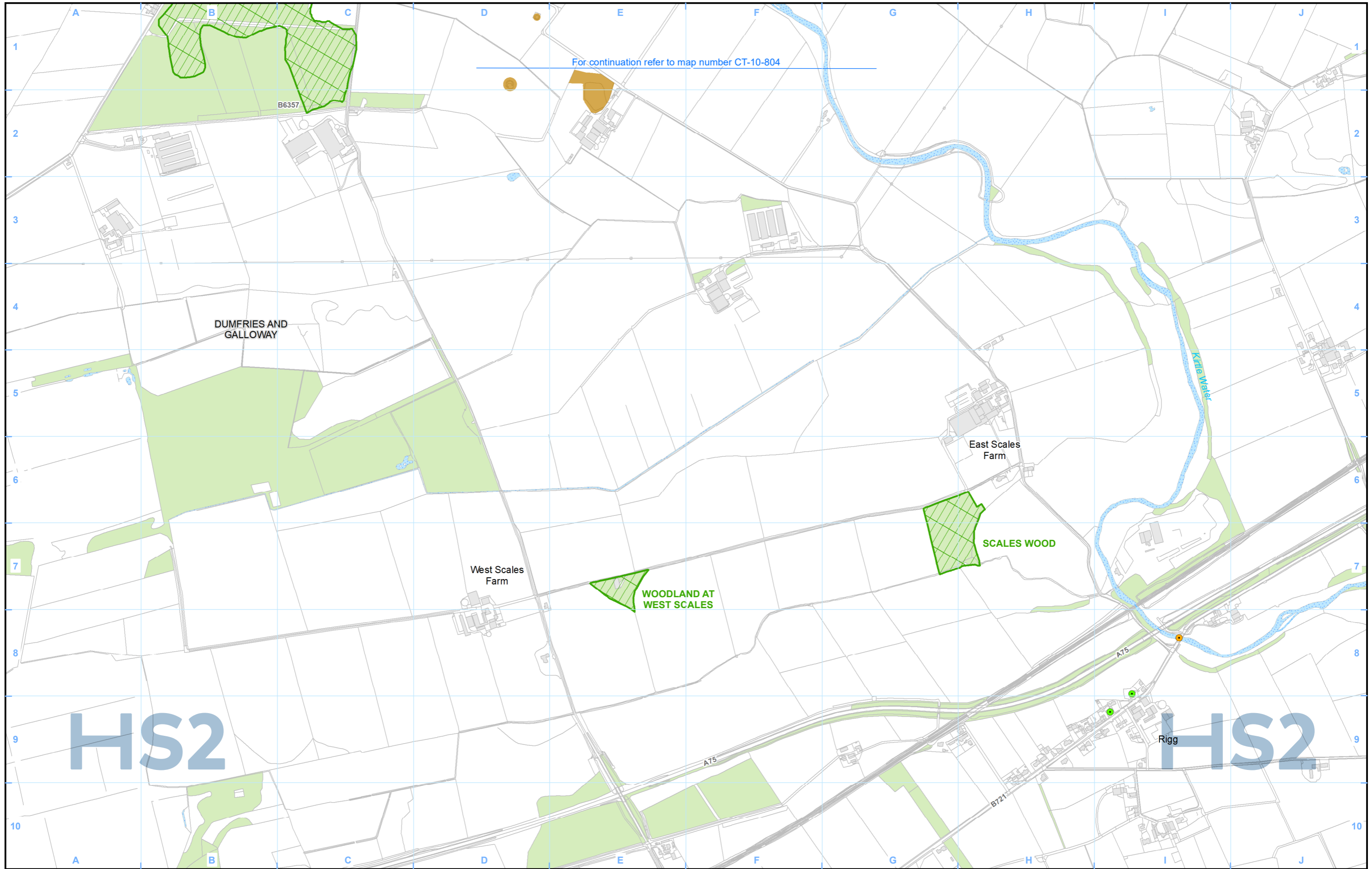
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Legend

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

Map Number **CT-10-804-L1**

Map Name **Environmental Baseline
SES2 and AP2 ES**

Off-route ADEP:
Annandale Depot

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