LONDON-WEST MIDLANDS
ENVIRONMENTAL STATEMENT

Volume 2 | Map books

CFA1 | Euston - Station and Approach

November 2013

ES 3.2.2.1

VOL
2

Department for Transport

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

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Map series name	Map series description
CT-05 – Construction Phase	These maps show the land potentially required during construction, the construction features, access requirements and infrastructure associated with construction of the Proposed Scheme. The maps also show the construction phase arrangements for public access using Public Rights of Way. The base mapping is reflective of 2013 Ordnance Survey (OS) data.
CT-06 – Proposed Scheme	These maps show permanent features, infrastructure, restored land, and areas for landscaping, screening and ecological mitigation associated with the Proposed Scheme. The base mapping is reflective of 2013 Ordnance Survey (OS) data.
CT-10 – Environmental Baseline	The Environmental Baseline maps display a range of environmental data layers.
LV-01 – Photomontages	Photomontages illustrating the Proposed Scheme during construction and operation.
LV-14 – Architects Visualisations	Artist's impressions of the HS2 stations.
CT-20 – Sections and Elevations	Cross sections and long sections of the HS2 stations.
LV-03 – Construction Phase Significantly Affected Viewpoints	Maps showing the viewpoint locations from which the Proposed Scheme has been assessed to give rise to significant effects during the construction phase.
LV-04 – Operational Phase Significantly Affected Viewpoints	Maps showing the viewpoint locations from which the Proposed Scheme has been assessed to give rise to significant effects during the operational phase.
SV-05 – Operational Airborne Noise and Vibration Impacts and Likely Significant Effects	SV-05 presents the direct operational noise impacts and likely significant effects of the scheme. The SV-05 figure series contains a large amount of information relating to the operational noise and vibration assessment. It is designed to communicate visually the assessment process from the prediction of impacts to the determination of likely residual significant effects. The corresponding text is included in Vol2.

Mapping explanatory notes

Copyright statements

Copyright statements are presented in the data dictionary and definitions section at the front of the map book, due to limited space to include this on the individual maps themselves.

Ordnance Survey data

All maps produced as part of the London-West Midlands Environmental Statement (ES) contain Ordnance Survey (OS) data. HS2 Ltd uses the most up-to-date mapping available, where possible, supplied by the OS. As such, we cannot be held responsible for any inaccuracies within this data.

As part of our licence conditions, all digital maps carry a watermark.

Chainage

Most of the maps presented as part of the ES have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XX+YYY, for example: 77+000.

Chainage (known as reference chainage) is referenced from Euston station, which is 0+000, and the value presented is in metres. For example, 77+000 refers to the point 77,000m, or 77km, from Euston station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000, scale chainage is shown at 5km intervals. For maps at 1:25,000, scale chainage is shown at 2km intervals. For maps at 1:10,000, 1:5,000 and 1:2,500 scales, chainage is shown at 1km intervals.

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

Map orientation

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

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

Map books

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

Name	Name
Volume 2 Map Books Community Forum Area: 01 Euston – Station and Approach	Volume 5 Map Books: Ecology – Community Forum Area: 05 Northolt Corridor
Volume 2 Map Book s Community Forum Area: 02 Camden Town and HS1 Link	Volume 5 Map Books: Ecology – Community Forum Area: 06 South Ruislip to Ickenham
Volume 2 Map Books Community Forum Area: 03 Primrose Hill to Kilburn (Camden)	Volume 5 Map Books: Ecology – Community Forum Area: 07 Colne Valley
Volume 2 Map Books Community Forum Area: 04 Kilburn (Brent) to Old Oak Common	Volume 5 Map Books: Ecology – Community Forum Area: 08 The Chalfonts and Amersham
Volume 2 Map Books Community Forum Area: 05 Northolt Corridor	Volume 5 Map Books: Ecology – Community Forum Area: 09 Central Chilterns
Volume 2 Map Books Community Forum Area: 06 South Ruislip to Ickenham	Volume 5 Map Books: Ecology – Community Forum Area: 10 Dunsmore, Wendover and Halton
Volume 2 Map Books Community Forum Area: 07 Colne Valley	Volume 5 Map Books: Ecology – Community Forum Area: 11 Stoke Mandeville and Aylesbury
Volume 2 Map Books Community Forum Area: 08 The Chalfonts and Amersham	Volume 5 Map Books: Ecology – Community Forum Area: 12 Waddesdon and Quainton
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Volume 2 Map Books Community Forum Area: 11 Stoke Mandeville and Aylesbury	Volume 5 Map Books: Ecology – Community Forum Area: 15 Greatworth to Lower Boddington
Volume 2 Map Books Community Forum Area: 12 Waddesdon and Quainton	Volume 5 Map Books: Ecology – Community Forum Area: 16 Ladbroke and Southam
Volume 2 Map Books Community Forum Area: 13 Calvert, Steeple Claydon, Twyford and Chetwode	Volume 5 Map Books: Ecology – Community Forum Area: 17 Offchurch and Cubbington
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Volume 2 Map Books Community Forum Area: 23 Balsall Common and Hampton-in-Arden	Volume 5 Map Books: Land Quality
Volume 2 Map Books Community Forum Area: 24 Birmingham Interchange and Chelmsley Wood	Volume 5 Map Books: Landscape and Visual – Euston and London Metropolitan
Volume 2 Map Books Community Forum Area: 25 Castle Bromwich and Bromford	Volume 5 Map Books: Landscape and Visual – Country South
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Volume 4 Map Books Off Route Effects	Volume 5 Map Books: Landscape and Visual – West Midlands Metropolitan
Volume 5 Map Books: Agriculture, Forestry and Soils	Volume 5 Map Books: Socio-Economic
Volume 5 Map Books: Air Quality	Volume 5 Map Books: Sound, Noise and Vibration – Euston and London Metropolitan
Volume 5 Map Books: Community	Volume 5 Map Books: Sound, Noise and Vibration – Country South
Volume 5 Map Books: Cultural Heritage – Euston and London Metropolitan	Volume 5 Map Books: Sound, Noise and Vibration – Country North
Volume 5 Map Books: Cultural Heritage – Country South	Volume 5 Map Books: Sound, Noise and Vibration – West Midlands Metropolitan
Volume 5 Map Books: Cultural Heritage – Country North	Volume 5 Map Books: Traffic and Transport
Volume 5 Map Books: Cultural Heritage – West Midlands Metropolitan	Volume 5 Map Books: Water Resources – Euston and London Metropolitan
Volume 5 Map Books: Ecology – Community Forum Area: 01 Euston - Station and Approach	Volume 5 Map Books: Water Resources – Country South
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LONDON-WEST MIDLANDS 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 giving an indication of the topography, showing valleys and hills, and the steepness of slopes. Spaced at intervals of 5m.	High Speed Two (HS2) Ltd	
Airborne sound study area	This defines the area within which operational airborne sound impacts of the scheme have been quantitatively assessed. This area is defined as within 1km of surface sections of the route in rural areas and within 500m of surface sections of the route in urban areas.	High Speed Two (HS2) Ltd	
Ancient Woodland	Ancient Woodland Inventory. Ancient Woodland is land that has had continuous woodland cover since at least AD1600.	Natural England	© Natural England copyright 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf
Balancing pond	The proposed location and extent of balancing ponds for drainage attenuation and infiltration. Outer boundary represents the perimeter.	High Speed Two (HS2) Ltd	
Chainage	Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres. E.g. 77+000 refers to the point, 77,000m, or 77km, from Euston Station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000 scale chainage is shown at 5km intervals. For maps at 1:25,000 scale, chainage is shown at 2km intervals. For maps at 1:10,000, 1:5,000 and 1:2,500 scale, chainage is shown at 1km intervals. 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.	High Speed Two (HS2) Ltd	
Committed developments	This informs the assessment of the future baseline. Committed consents are unimplemented but committed developments or Local Plan development allocations that are likely to be largely built out prior to commencement of the Proposed Scheme. Cumulative development is unimplemented but committed developments or Local Plan development allocations that are likely to be largely built out during implementation of the Proposed Scheme and give rise to potential cumulative effects, when considered alongside the Proposed Scheme.	High Speed Two (HS2) Ltd	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.

Legend features	Definition	Source	Copyright
Community Forum boundary	The Environmental Statement has been split into 26 sections called Community Forum Areas.	High Speed Two (HS2) Ltd	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Conservation area	Areas considered worthy of preservation or enhancement because of their special architectural or historic interest. Conservation Areas have been captured and digitised from desktop based studies using publically available local authority information. Accuracy of the data is dependent upon that of the individual data source and areas are provided as indicative site boundaries only.	Local Authorities	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Construction compounds	See main construction compounds.	High Speed Two (HS2) Ltd	
Construction traffic route	Public highways which may be used for HGV construction traffic.	High Speed Two (HS2) Ltd	
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Depot, station, headhouse or portal building	Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures.	High Speed Two (HS2) Ltd	
District/Borough boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Ditches – new	The proposed location and extent of drainage ditches.	High Speed Two (HS2) Ltd	
Ecological mitigation pond	Ponds whose primary function is to provide ecological mitigation. This could be a standalone pond or part of a wider wetland habitat creation plan.	High Speed Two (HS2) Ltd	
Electricity substation	Includes all auto-transformers and feeder stations.	High Speed Two (HS2) Ltd	
Engineering earthworks	Engineering (structural) earthworks which include railway slopes and crossings (roads etc).	High Speed Two (HS2) Ltd	
Engineering earthworks: cutting	Cuttings created in the construction of the railway and associated works such as highways.	High Speed Two (HS2) Ltd	
Engineering earthworks: embankment	Embankments created in the construction of the railway and associated works such as highways.	High Speed Two (HS2) Ltd	
Envisaged mitigation to avoid/reduce significant noise effects	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 (green tunnels marked separately): These lines represent engineering features of the route which reduce sound levels from the Proposed Scheme at potentially significant sensitive receptors. These features, therefore, serve a material purpose in reducing or avoiding likely significant noise effects. Examples include engineering cuttings near to sensitive receptors. These features are labelled with the height of the top of the feature above rail level.	High Speed Two (HS2) Ltd	
Envisaged mitigation further reducing noise effects	Other environmental features e.g. landscaping: These lines represent environmental mitigation features provided for reasons	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
	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.		
Existing public right of way (PRoW)	See Public Rights of Way.	See Public Rights of Way.	See Public Rights of Way.
Existing watercourse	See Watercourse.	See Watercourse.	See Watercourse.
Existing woodland and tree belts	A dataset showing large areas of trees that are likely to have an impact on whether the scheme is visible during construction and vegetation. It was used in the ZTV as part of the base models.	High Speed Two (HS2) Ltd	
Grassed areas	Any other area grassed not included in landscaped earthworks or ecological habitat.	High Speed Two (HS2) Ltd	
Grassland habitat creation	Soft landscape design that can include any seeded areas for the purpose of creating grassland except for the engineering earthworks.	High Speed Two (HS2) Ltd	
Ground-borne sound & vibration study area (highly sensitive non-residential)	This defines the area within which direct operational ground-borne sound and vibration impacts of the scheme at highly sensitive non-residential receptors have been quantitatively assessed. This area is defined as within 200m of the route.	High Speed Two (HS2) Ltd	
Ground-borne sound & vibration study area (residential and non-residential)	This defines the area within which direct operational ground-borne sound and vibration impacts of the scheme at residential and non-residential receptors have been quantitatively assessed. This area is defined as within 85m of the route.	High Speed Two (HS2) Ltd	
Hedgerow habitat creation	Ecological mitigation to provide new hedgerow planting, connectivity enhancements to existing areas and areas for ecological management. This level does not include screening planting for visual mitigation purposes.	High Speed Two (HS2) Ltd	
HS2 access road	Access road to HS2 infrastructure such as electricity substations, balancing ponds and maintenance access points to the railway.	High Speed Two (HS2) Ltd	
Land drainage area	Provision of land to attenuate or infiltrate overland flows at or beyond the HS2 railway boundaries; for example, where existing land drainage systems are altered by the HS2 works, where the existing landform is reshaped by landscape earthworks or where surface water from third party land is intercepted by the HS2 perimeter drainage system.	High Speed Two (HS2) Ltd	
Land potentially required during construction	Boundary defining the maximum possible extent of construction works required to build HS2 as far as the current level of design allows. This only covers surface works and includes all tunnel portals, vent shafts and headhouses, but does not apply to wholly tunnelled sections or to air rights. It also encompasses associated highway, access, drainage and utility works.	High Speed Two (HS2) Ltd	

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

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

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

Legend features	Definition	Source	Copyright
			omissions. The presence of a marked boundary within SER information does not imply any rights of public access.
Main construction compound	Construction compounds in which main contractors offices and welfare facilities will be located.	High Speed Two (HS2) Ltd	
Main utility works	Represents all new major utility installations (included in the hybrid Bill) and also modifications to existing utilities required to construct the scheme. Includes water, electricity, telecommunications and gas.	High Speed Two (HS2) Ltd	
Minor ground-borne noise or vibration impact	Buildings at which a minor operational ground-borne sound or vibration impact is predicted from the Proposed Scheme.	High Speed Two (HS2) Ltd	
National Nature Reserve (NNR)	A National Nature Reserve (NNR) is the land declared under the National Parks and Access to the Countryside Act 1949 or Wildlife and Countryside Act (1981) as amended.	Natural England	© Natural England copyright 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf
New, diverted or realigned PRoW	New, realigned or diverted Public Rights of Way (PRoW).	High Speed Two (HS2) Ltd	
Noise fence barrier	Denotes fence-style barriers provided as part of the noise mitigation measures. Note that other noise barriers have also been included in the form of landscaping and engineering cuttings - see the SV map series for more detail on noise mitigation.	High Speed Two (HS2) Ltd	
Non-engineering earthworks: cutting	Cuttings created in the construction of landscape features and mitigation measures.	High Speed Two (HS2) Ltd	
Non-engineering earthworks: embankment	Embankments created in the construction of landscape features and mitigation measures.	High Speed Two (HS2) Ltd	
Operational airborne sound impacts at buildings	The buildings shown on SV-02 and SV-05 are colour-coded according to the magnitude of the predicted noise impacts of the Proposed Scheme. Noise impacts are calculated by comparing the sound levels predicted if the Proposed Scheme did not go ahead with those if it did (details of this process can be found in Volume 5: Appendix SV001-000). Panel B on SV-02/SV-05 contains a key showing the colours used with the corresponding impact categories. The impacts presented are the greatest (i.e. worst-case) of the impacts predicted for daytime and night-time.	High Speed Two (HS2) Ltd	
Photomontage location	Shows the locations from which verifiable photomontages have been produced. The locations are based on a fully surveyed point.	High Speed Two (HS2) Ltd	
Proposed tree planting	A dataset showing proposed planting that may have an impact on whether the scheme is visible during construction and operation. It was used in the operation year 15 ZTV.	High Speed Two (HS2) Ltd	
Public realm	Specifically provided to show areas to be used for public realm. This layer is mainly associated with station sites and is to be used to indicate general areas for designed soft and hard landscaping.	High Speed Two (HS2) Ltd	
Public Rights of Way	Public rights of way are highways which can be used for the following purposes:	Buckinghamshire County Council Birmingham City Council	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.

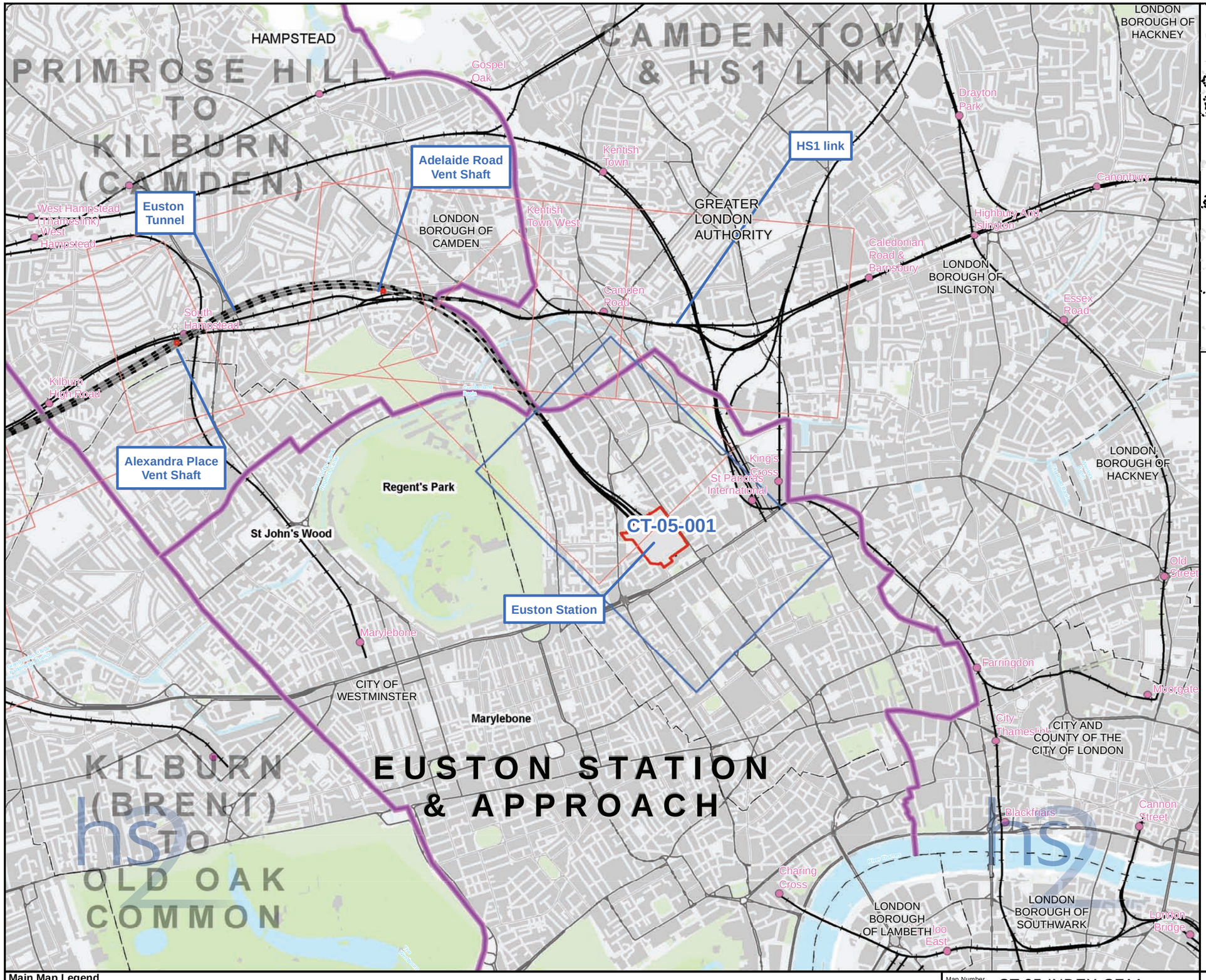
Legend features	Definition	Source	Copyright
	- Footpaths - pedestrians only - Bridleways - pedestrians, cyclists and equestrians - Restricted byways - as bridleways plus non-motorised vehicles - Byways open to all traffic. Definitive Map data supplied by surveying authorities (i.e. county councils, London Boroughs and metropolitan borough councils in the West Midlands).	Coventry City Council City of Westminster Hertfordshire County Council London Borough of Brent London Borough of Camden London Borough of Ealing London Borough of Hammersmith & Fulham London Borough of Hillingdon Northamptonshire County Council Oxfordshire County Council Royal Borough of Kensington & Chelsea Solihull Metropolitan Borough Council Staffordshire County Council Warwickshire County Council	This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Buckinghamshire County Council Licence No. 100021529, 2012. Copyright Buckinghamshire County Council. © Copyright Coventry City Council © Northamptonshire County Council
Rail alignment	Longitudinal geometry of the tracks consisting of a series of straights and curves.	High Speed Two (HS2) Ltd	
Rail alignment formation	The space required to accommodate the railway infrastructure which typically includes the tracks, overhead line equipment, drainage, line-side access paths and cable routes for electrification and communication systems.	High Speed Two (HS2) Ltd	
Registered Park or Garden	Parks and Gardens of special historic interest. Supplied by English Heritage. Of the 1,590 Registered Parks and Gardens, over 91% were captured against the 1:10,000 Ordnance Survey Raster product. 135 records are potentially subject to movement under Positional Accuracy Improvement (PAI).	High Speed Two (HS2) Ltd	Contains, or is based upon, English Heritage's National Heritage List for England data © English Heritage.
Replacement floodplain storage	Provision of storage to replace floodplain occupied by the Proposed Scheme. Equivalent storage is provided for events up to the 1 in 100 (1%) annual probability event with an allowance for climate change.	High Speed Two (HS2) Ltd	
Returned to suitable development use	Post construction, land will be reinstated to enable potential future development.	High Speed Two (HS2) Ltd	
Route in tunnel Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Satellite construction compound	Represents satellite construction compounds which serve local works for major construction elements within a main contract.	High Speed Two (HS2) Ltd	
Scheduled Monument	A schedule has been kept since 1882 of monuments considered to be of national importance by the government. The current legislation, the Ancient Monuments and Archaeological Areas Act 1979, supports a formal system of Scheduled Monument Consent for any work to a designated monument. The Scheduled Monument layer consists of approximately 22,380 monuments tied into the Ordnance Survey. The majority of these are fixed; however, a small number of records may be updated as digital positional accuracy improves. The data is subject to continuous review and regularly updated as new monuments are designated.	English Heritage	Contains, or is based upon, English Heritage's National Heritage List for England data © English Heritage.
Significantly affected viewpoint	This dataset shows the locations of the visual receptors from which the scheme's visual impact has been assessed and shows	High Speed Two (HS2) Ltd	

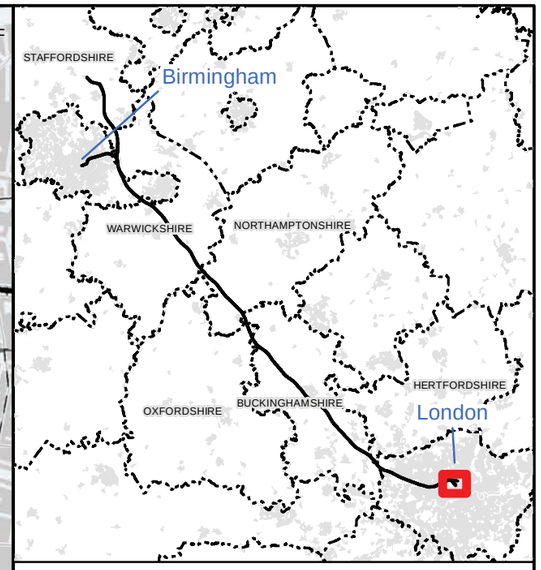
Legend features	Definition	Source	Copyright
	whether or not the impact is significant or non-significant during construction and operation.		
Site of Special Scientific Interest (SSSI)	A Site of Special Scientific Interest (SSSI) is the land notified as an SSSI under the Wildlife and Countryside Act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

LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

CT-05 – Construction Phase

CT-06 – Proposed Scheme





Map Series Information:

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

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

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

Main Map Legend

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

Map Number: CT-05-INDEX-CFA1

Map Name: Index Map of: Construction Phase

Community Forum Area CFA1: Euston

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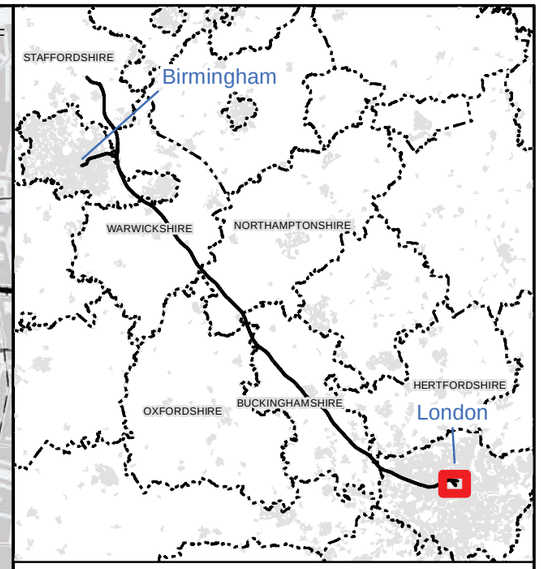
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Scale at A3: 1:25,000

0 250 500 750 1,000 Metres

Doc Number: C250-ARP-EV-MAP-000-004187--P05.00

Date: 29/10/13



Map Series Information:

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

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

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

Main Map Legend

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

Map Number: CT-06-INDEX-CFA1

Map Name: Index Map of: Proposed Scheme

Community Forum Area CFA1: Euston

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Scale at A3: 1:25,000

0 250 500 750 1,000 Metres

Doc Number: C250-ARP-EV-MAP-000-004214--P06.00

Date: 29/10/13

CAMDEN TOWN AND HS1 LINK

EUSTON-STATION AND APPROACH

MANDELA STREET
COLLEGE PLACE
PENRYN ST
CHARRINGTON STREET
CAMDEN STREET
DELANCY ST
CROWNDALE ROAD
OAKLEY SQUARE
OAKLEY SQUARE
CRANLEIGH ST
CHALTON STREET
ALDEHAM ST
POLYGON ROAD
A501 EUSTON ROAD
BAYHAM STREET
WERRINGTON STREET
A400 CAMDEN HIGH STREET
A4200 EVERSHOLT STREET
HARRINGTON SQUARE
PLACE
A400 HAMPSTEAD ROAD
IDLINGTON
DELANCEY STREET
ARLINGTON ROAD
A4201 PARKWAY
ALBERT STREET
MORNINGTON ST
MORNINGTON TERRACE
GRANBY TERRACE
PARK VILLAGE EAST
HARRINGTON STREET
AUGUSTUS STREET
STANHOPE STREET
VARNDELL STREET
ROBERT STREET
A400 HAMPSTEAD ROAD
DRUMMOND ST
ENDSLEIGH GARDENS
A400 GOWER ST
GRAFTON WAY
UNIVERSITY ST
A400 TOTTENHAM COURT ROAD
A501 EUSTON ROAD
A4201 ALBANY STREET
MARKET
CUMBERLAND
OUTER CIRCLE
GLOUCESTER GATE
For Continuation Refer To CT-05-003
London Borough of Camden
City of Westminster
Euston Station
0+000
1+000

A400 Hampstead Road Overbridge (south) Satellite Compound
Royal Mail NW1 Delivery Office Satellite Compound
Lancing Street Satellite Compound
Euston Station Satellite Compound
Euston Square Gardens (east) Satellite Compound
The Podium Main Compound
Euston Square Gardens (west) Satellite Compound
Gordon Street Satellite Compound
A400 Hampstead Road Overbridge(north) Satellite Compound
Euston Portal
Mornington Street Overbridge Satellite Compound
Granby Terrace Overbridge Satellite Compound
Headhouse
Mornington Terrace Sidings Satellite Compound
Carriage Shed and Park Village East Satellite Compound
National Temperance Hospital Main Compound

Legend

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

Map Number: CT-05-001

Map Name: Construction Phase

Community Forum Area: CFA01 Euston - Station and Approach

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0 50 100 150 200 250 Metres

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Doc Number: C220-ARP-EV-DPL-01A-100100 P04 Date: 29/10/13

CAMDEN TOWN AND HS1 LINK

MANDELA STREET
COLLEGE PLACE
PENRYN ST
CHARRINGTON STREET
CAMDEN STREET
CROWNDALE ROAD
CRANLEIGH ST
CHALTON STREET
POLYGON ROAD
A501 EUSTON ROAD
BAYHAM STREET
ALDEHAM ST
WERRINGTON STREET
East-West Overbridge (Pedestrian/Cycle)
Taxi Set Down
Station Entrance
Euston Square Gardens
CAMDEN HIGH STREET
A4200 EVERSHOLT STREET
Classic Tracks
Bus Station
DELANCEY STREET
ARLINGTON ROAD
HARRINGTON SQUARE
DUNGTON PLACE
A4201 PARKWAY
Euston Portal
MORNINGTON STREET
A400 HAMPSTEAD ROAD
Euston Station
Main Station and Underground Entrance
ALBERT STREET
Granby Terrace Overbridge
MORNINGTON TERRACE
Underground Station Entrance
PARK VILLAGE EAST
1+000
HARRINGTON STREET
A400 HAMPSTEAD ROAD
0+000
Taxi Pick Up
DRUMMOND ST
For Continuation, Refer To CT-06-003
GLOUCESTER GATE
Headhouse
High Speed Tracks
AUGUSTUS STREET
STANHOPE STREET
VARNDELL STREET
ROBERT STREET
Station Entrance
Cobourg Street Vent Shaft
A400 GOWER ST
Open Space (North of Langdale)
Taxi Set Down
MARKET
CUMBERLAND
A4201 ALBANY STREET
Station Entrance
GRAFTON WAY
UNIVERSITY ST
OUTER CIRCLE
A501 EUSTON ROAD
A400 TOTTENHAM COURT ROAD
Euston Auto-transformer Station
London Borough of Camden
City of Westminster

EUSTON STATION AND APPROACH

Legend

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

Map Number: CT-06-001

Map Name: Proposed Scheme

Community Forum Area: CFA01 Euston - Station and Approach

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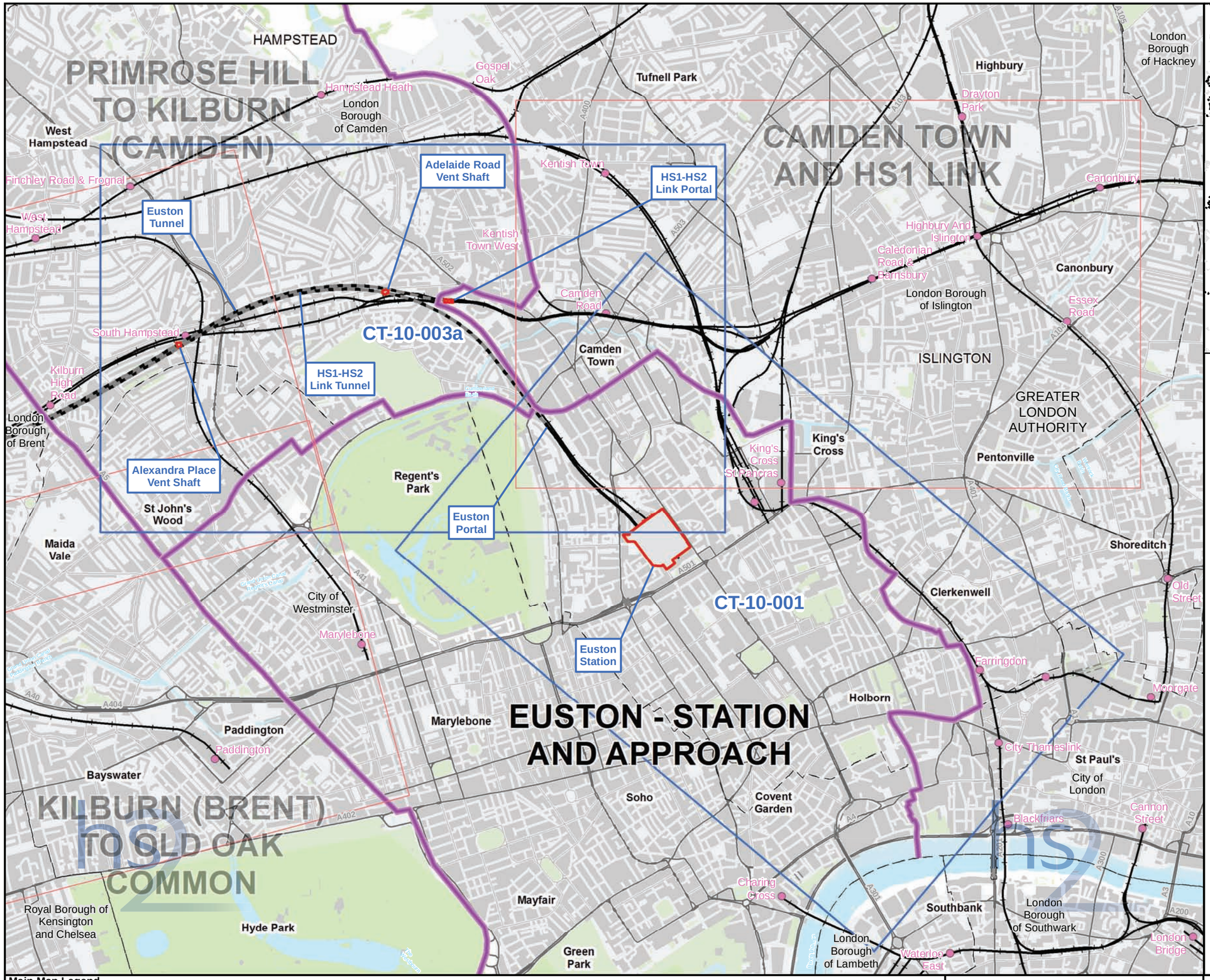
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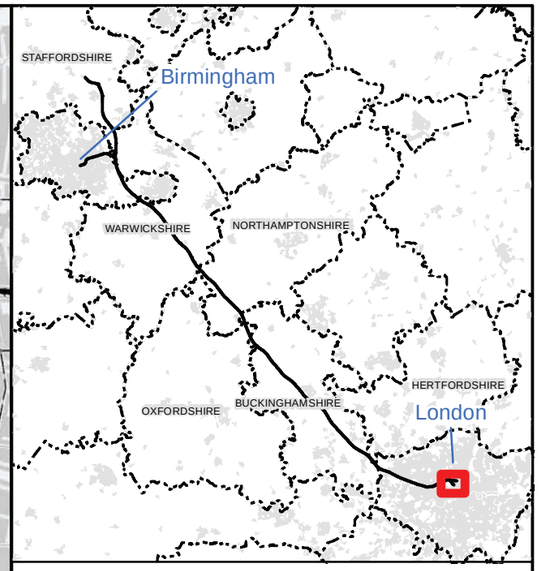
Doc Number: C220-ARP-EV-DPL-01A-100200 P05 **Date:** 30/10/13

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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

CT-10 – Environmental Baseline





Map Series Information:

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

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

Main Map Legend

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

Map Number: CT-10-INDEX-CFA1

Map Name: Index Map of: Environmental Baseline

Community Forum Area CFA1: Euston - Station and Approach

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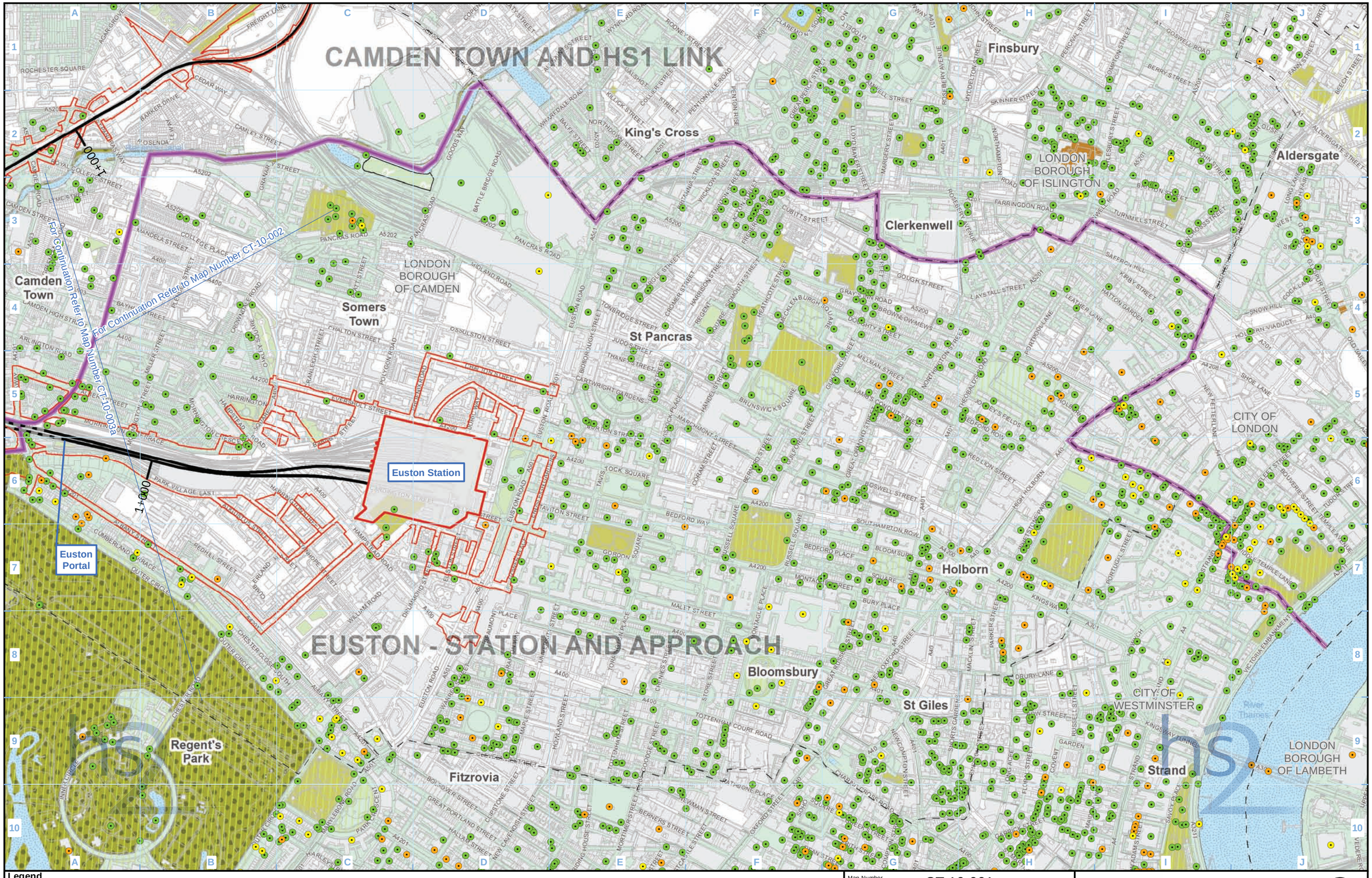
0 250 500 750 1,000 Metres

Doc Number: C251-ETM-EV-MAP-01A-000112-P06.00

Date: 25/10/13

CAMDEN TOWN AND HS1 LINK

EUSTON - STATION AND APPROACH



Legend

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

Map Number: CT-10-001

Map Name: Environmental Baseline

Community Forum Area CFA1: Euston - Station and Approach

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Scale at A3: 1:10,000

0 100 200 300 400 Metres

Doc Number: C251-ETM-EV-MAP-01A-000046-P06.00

Date: 25/10/13

PRIMROSE HILL TO KILBURN (CAMDEN)

CAMDEN TOWN AND HS1 LINK

EUSTON - STATION AND APPROACH

Euston Tunnel

Alexandra Place Vent Shaft

HS1-HS2 Link Tunnel

HS1-HS2 Link Portal

Adelaide Road Vent Shaft

Euston Portal

Euston Station

Maitland Park

Kentish Town

Camden Town

Primrose Hill

Regent's Park

Somers Town

St John's Wood

LONDON BOROUGH OF CAMDEN

CITY OF WESTMINSTER

3+000

2+000

2+000

1+000

1+000

For Continuation Refer to Map Number CT-10-004a

For Continuation Refer to Map Number CT-10-002

For Continuation Refer to Map Number CT-10-001

Legend

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

Map Number: CT-10-003a

Map Name: Environmental Baseline

Community Forum Area CFA1: Euston - Station and Approach

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0 100 200 300 400 Metres

Doc Number: C251-ETM-EV-MAP-01A-000140-P06.00

Date: 25/10/13

LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

LV-01 - Photomontages

LV-14 - Architects Visualisations

CT-20 - Sections and Elevations

Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage



Technical Information
Location: Viewpoint: LVMF 5A.2: Greenwich Park: the General Wolfe statue - north-east of the statue to St Paul's Cathedral.

Date taken: 24/04/13
Time taken: 13:25
Focal length: 57.296mm

Viewpoint location shown on Map LV-05-01.

This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.



Figure Number
LV-01-001

Figure Name
Verifiable Photomontage
Operation Year 1 (2026) - Winter
Viewpoint LVMF 5A.2

Community Forum Area CFA1:
Euston Station and Approach

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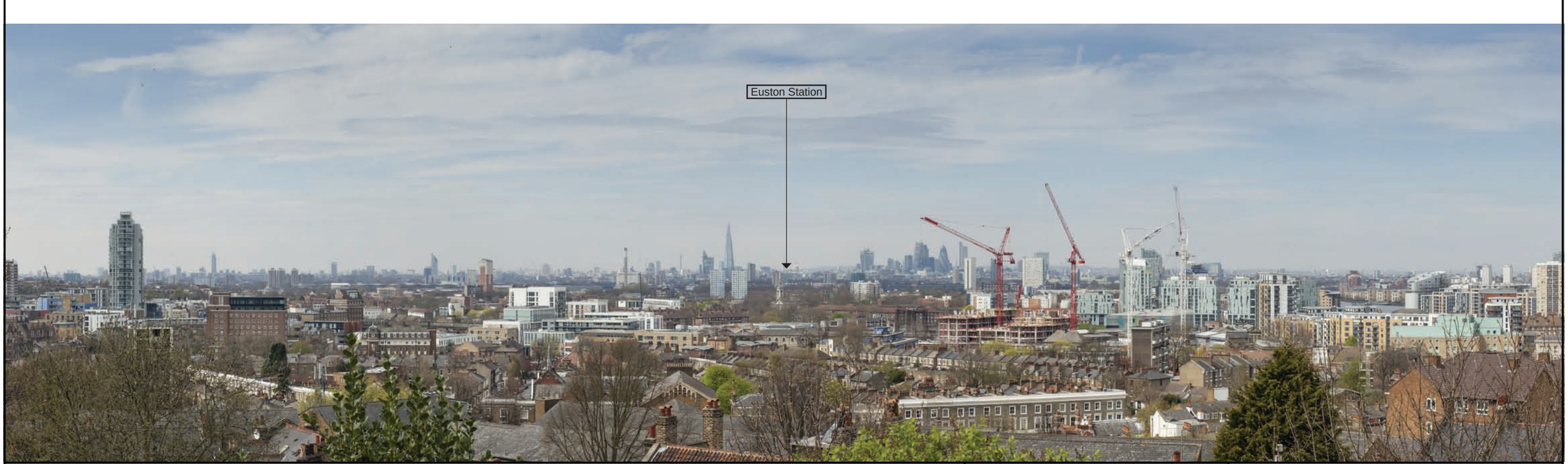
Doc Number: C250-ARP-EV-PHO-000-001000-P01

Date: 10/10/13

Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage



Technical Information
Location: Viewpoint: LVMF 6A.1: Blackheath Point - near the orientation board to St Paul's Cathedral.

Date taken: 24/04/13
Time taken: 13:55
Focal length: 57.296mm

Viewpoint location shown on Map LV-05-01.

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Figure Number
LV-01-002

Figure Name
Verifiable Photomontage
Operation Year 1 (2026) - Winter
Viewpoint LVMF 6A.1

Community Forum Area CFA1:
Euston Station and Approach

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Doc Number: C250-ARP-EV-PHO-000-001001-P01

Date: 10/10/13

Current baseline (2013)



Operation Year 1 (2026) -Summer verifiable photomontage



Technical Information
Location: Viewpoint 003-2-010: View east from Park Village East.

Date taken: 13/08/13
Time taken: 11:39
Focal length: 57.29mm

Viewpoint location shown on Map LV-04-002a.
For key plan legend refer to map series LV-04.

This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.

Key Plan

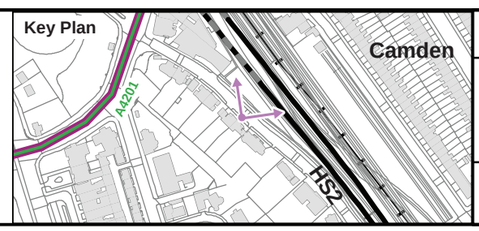


Figure Number
LV-01-003

Figure Name
Verifiable Photomontage
Operation Year 1 (2026) - Summer
Viewpoint 003-2-010

Community Forum Area CFA1:
Euston Station and Approach

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Doc Number: C250-ARP-EV-PHO-000-001002-P01

Date: 24/10/13

Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage



Technical Information
Location: Viewpoint 004-1-010: View west from the corner of Delancey Street and Mornington Terrace.

Date taken: 17/02/13
Time taken: 10:25
Focal length: 57.296mm

Viewpoint location shown on Map LV-04-002a.
For key plan legend refer to map series LV-04.

This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.

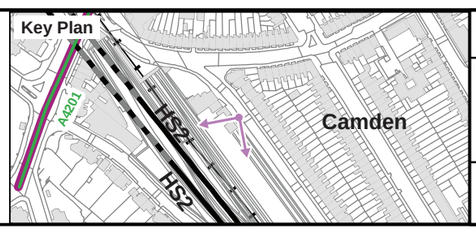


Figure Number
LV-01-004

Figure Name
Verifiable Photomontage
Operation Year 1 (2026) - Winter
Viewpoint 004-1-010

Community Forum Area CFA1:
Euston Station and Approach

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Doc Number: C250-ARP-EV-PHO-000-001003-P01

Date: 17/10/13

Current baseline (2013)



Operation Year 1 (2026) - Winter verifiable photomontage



Technical Information
Location: Viewpoint 004-1-008: View west from Mornington Street and Mornington Terrace

Date taken: 17/02/13
Time taken: 10:45
Focal length: 57.29mm

Viewpoint location shown on Map LV-04-001.
For key plan legend refer to map series LV-04.

This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.



Figure Number
LV-01-267

Figure Name
Verifiable Photomontage
Operation Year 1 (2026) - Winter
Viewpoint 004-1-008

Community Forum Area CFA1:
Euston Station and Approach

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Doc Number: C250-ARP-EV-PHO-000-001178-P01

Date: 28/10/13

Current baseline (2013)



Operation Year 1 (2026) - summer verifiable photomontage



Technical Information
Location: Viewpoint 004-2-004: View west from Dalehead apartments.

Date taken: 13/08/13
Time taken: 12:15
Focal length: 57.296mm

Viewpoint location shown on Map LV-04-001.
For key plan legend refer to map series LV-04.

This verifiable photomontage provides an illustration of how the Proposed Scheme may look in 2026 (the opening year). The design of the Proposed Scheme may be subject to design development in response to consultation. Design development will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme. Where new planting is proposed, it has been shown as immature plants which would mature over time to further integrate the Proposed Scheme into the landscape.

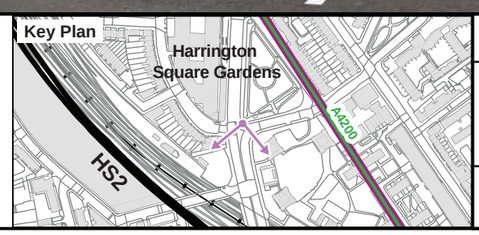


Figure Number
LV-01-005

Figure Name
Verifiable Photomontage
Operation Year 1 (2026) - Summer
Viewpoint 004-2-004

Community Forum Area CFA1:
Euston Station and Approach

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Doc Number: C250-ARP-EV-PHO-000-001004-P01

Date: 17/10/13

Current baseline (2013)



Peak construction phase - Summer verifiable photomontage



Technical Information
Location: Viewpoint 004-2-004: View west from Dalehead apartments.

Date taken: 13/08/13
Time taken: 12:15
Focal length: 57.296mm

Viewpoint location shown on Map LV-03-001.
For key plan legend refer to map series LV-03.

This verifiable photomontage provides an illustration of how the Proposed Scheme may look during the peak construction phase for this part of the route. The construction methods and siting of construction activities may be subject to change in response to consultation and ongoing design. The extent of land required temporarily to construct the scheme will not extend beyond that shown in the photomontage. Changes in the construction of the Proposed Scheme will not result in any significant adverse change in the environmental effects detailed in the photomontages of the Proposed Scheme.

Key Plan

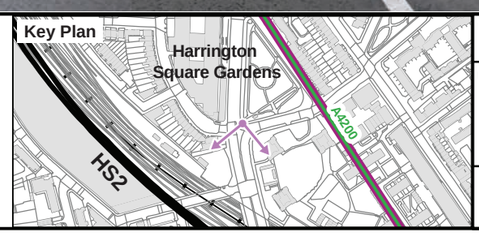


Figure Number
LV-01-269

Figure Name
Verifiable Photomontage
Peak construction phase - Summer
Viewpoint 004-2-004

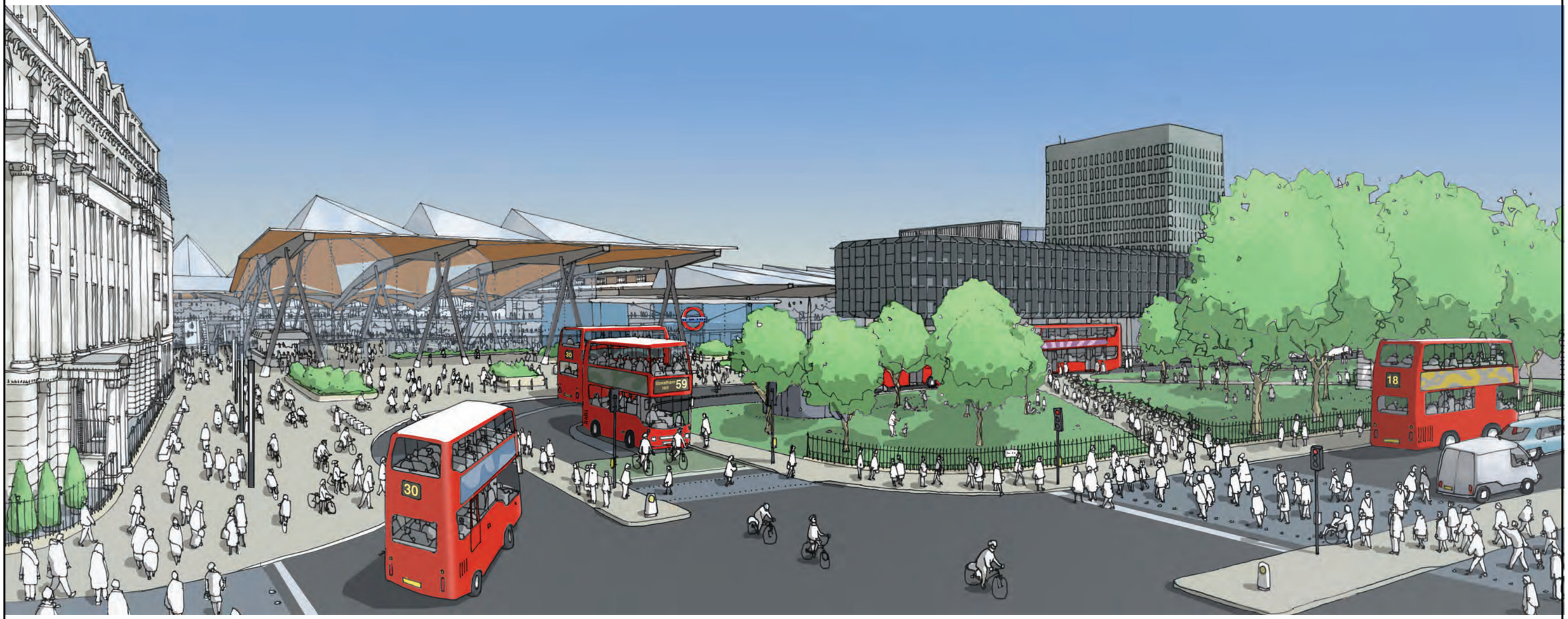
Community Forum Area CFA1:
Euston Station and Approach

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Date: 28/10/13



View of Euston station from the south, adjacent to Euston Road

Figure Number: LV-14-001

Figure Name: Illustration of Euston Station: view from the south

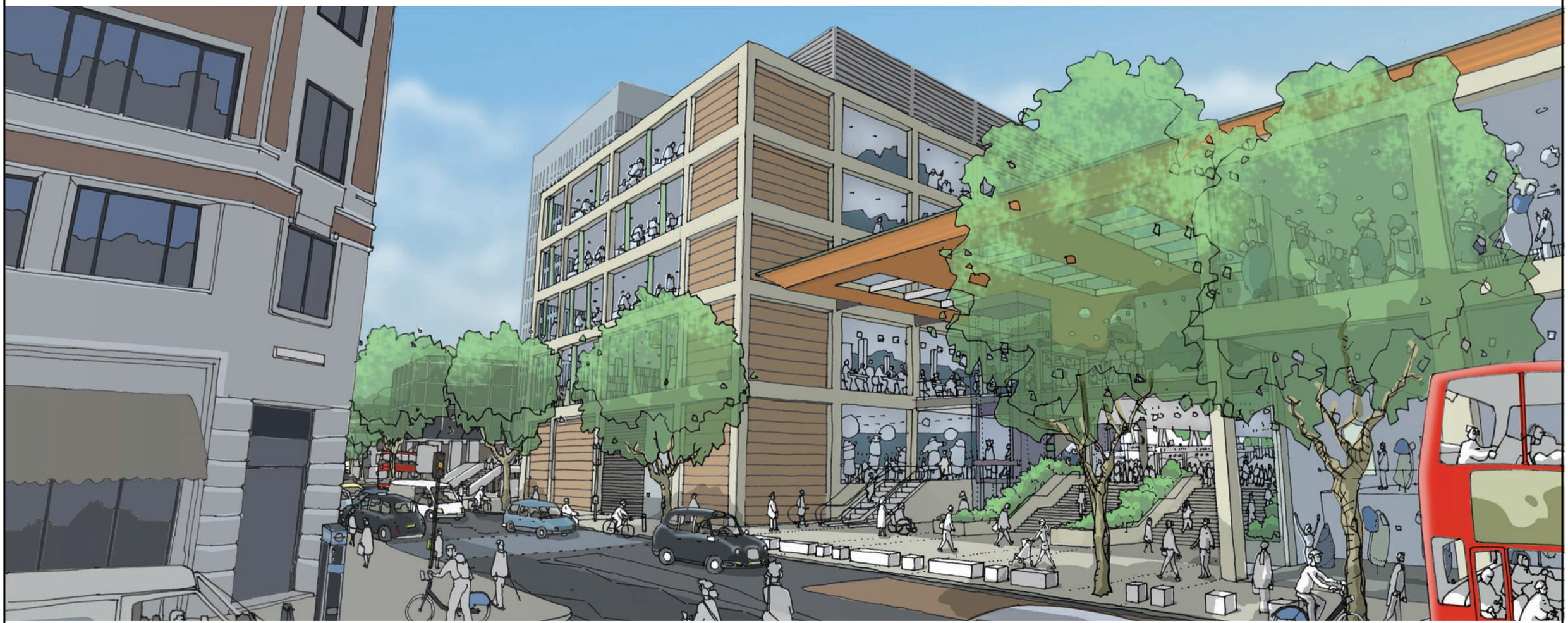
Community Forum Area CFA1: Euston - Station and Approach

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View of Euston station from the north-east, adjacent to Doric Way

Figure Number
LV-14-002

Figure Name
Illustration of Euston Station:
view from the north-east

Community Forum Area CFA1:
Euston - Station and Approach

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View of Euston station entrance from the south-west, adjacent to Drummond Street

Figure Number
LV-14-003

Figure Name
Illustration of Euston Station:
view from the south-west

Community Forum Area CFA1:
Euston - Station and Approach

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View of Euston station entrance from the north-west, adjacent Hampstead Road

Figure Number: LV-14-004

Figure Name: Illustration of Euston Station: view from the north-west

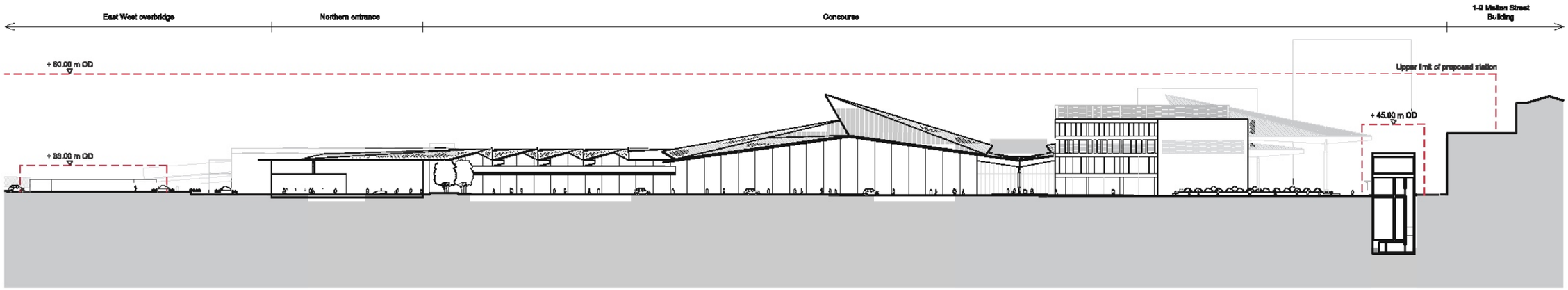
Community Forum Area CFA1: Euston - Station and Approach

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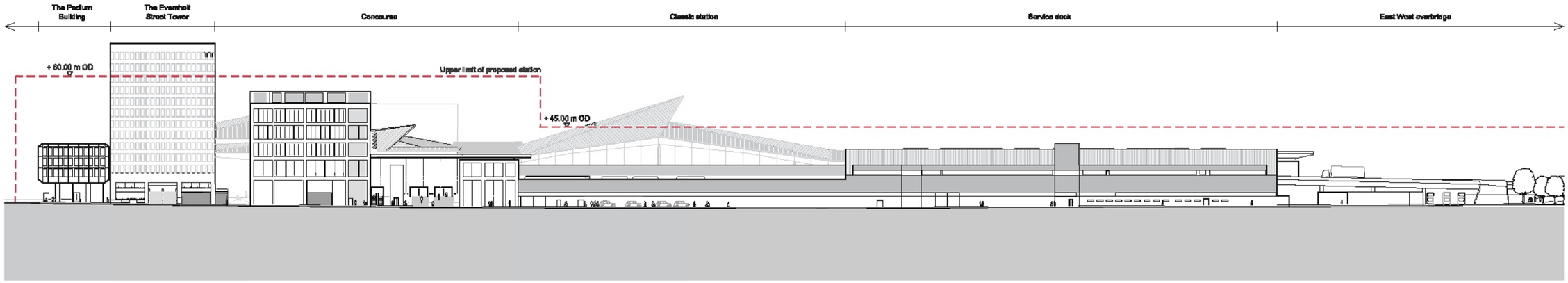
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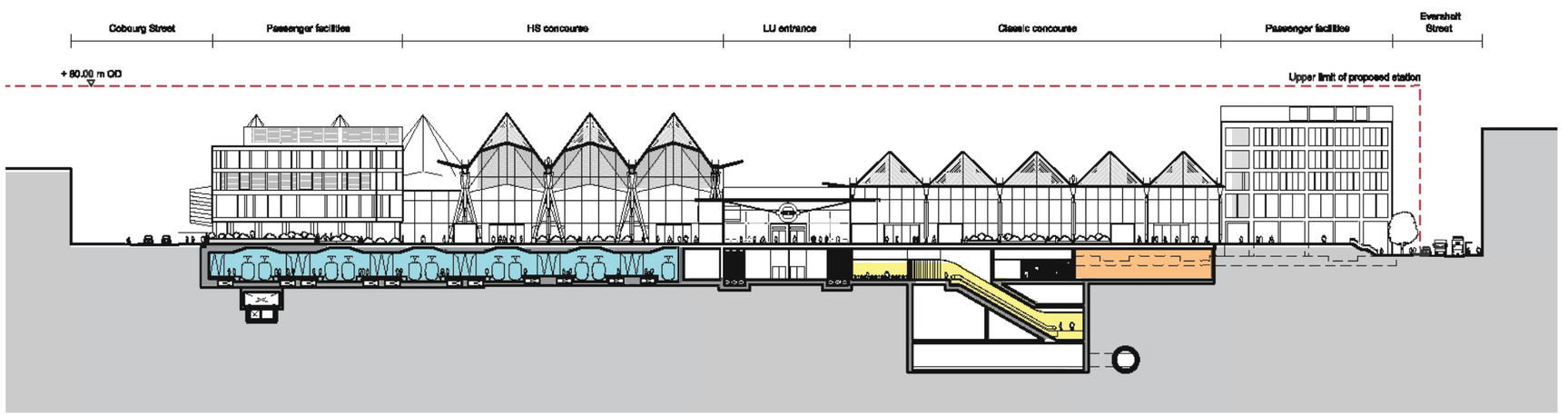
Doc Number: C220-ARP-EV-SKE-01A-000006 **Date:** 01/11/13



Elevation 01 - Cobourg Street
1:1250 @ A3



Elevation 02 - Eversholt Street
1:1250 @ A3

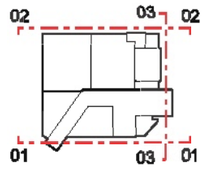


+ 60.00m OD (Roof level)
+ 51.50m OD (5th level)
+ 46.50m OD (4th level)
+ 41.50m OD (3rd level)
+ 36.50m OD (2nd level)
+ 30.50m OD (1st level)
+ 24.50m OD (Concourse - ground level)
+ 24.50m OD (HS platform level)
+ 16.45m OD (LU ticket hall level)
+ 8.00m OD (LU interchange level)
0.00m OD (Datum line)

Section 03
1:1250 @ A3

Legend

- HS platforms
- Classic platforms
- Lifts
- Escalators
- Concourse
- Passenger facilities
- Station facilities
- Entrances



0m 10m 20m 50m 100m

Map Number
CT-20-001

Map Name
Euston Station - Elevations

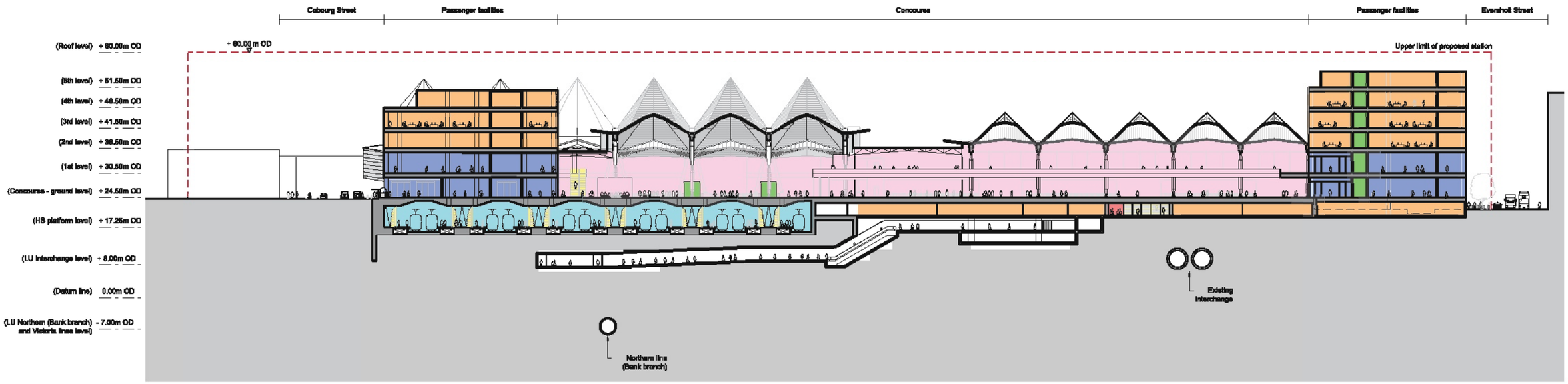
Community Forum Area
CFA01
Euston - Station and Approach

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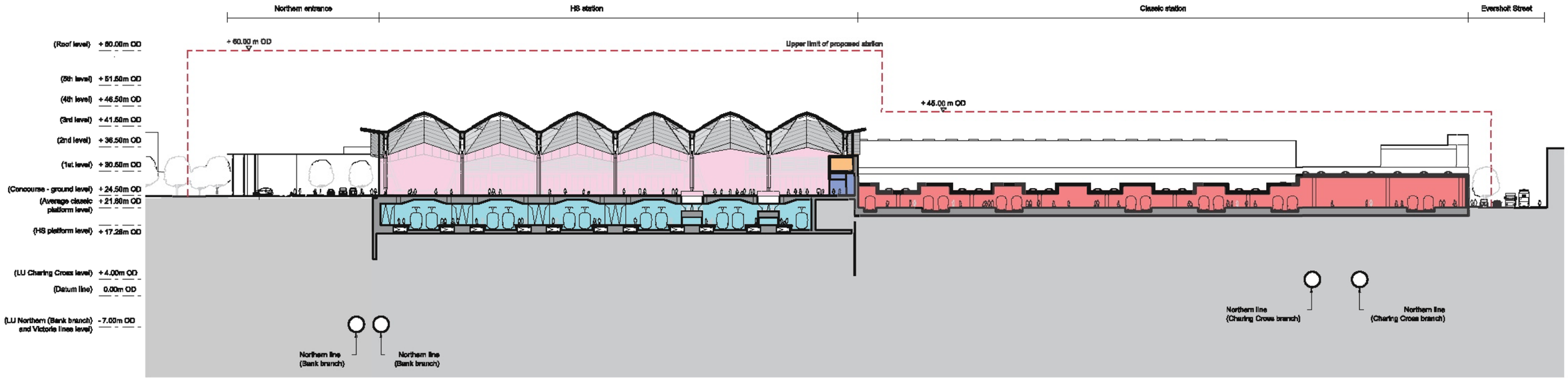
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Section 04
1:1000 @ A3

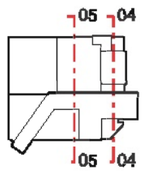


Section 05
1:1000 @ A3

0m 10m 20m 50m 100m

Legend

- HS platforms
- Classic platforms
- Lifts
- Escalators
- Concourse
- Passenger facilities
- Station facilities
- Entrances



Map Number
CT-20-002

Map Name
Euston Station - Cross Sections

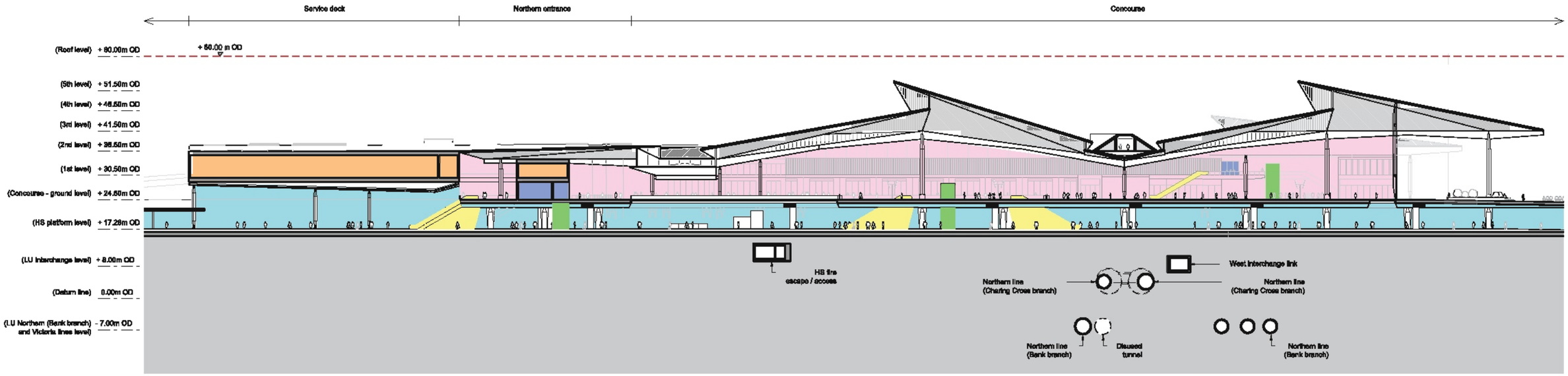
Community Forum Area
CFA01
Euston - Station and Approach

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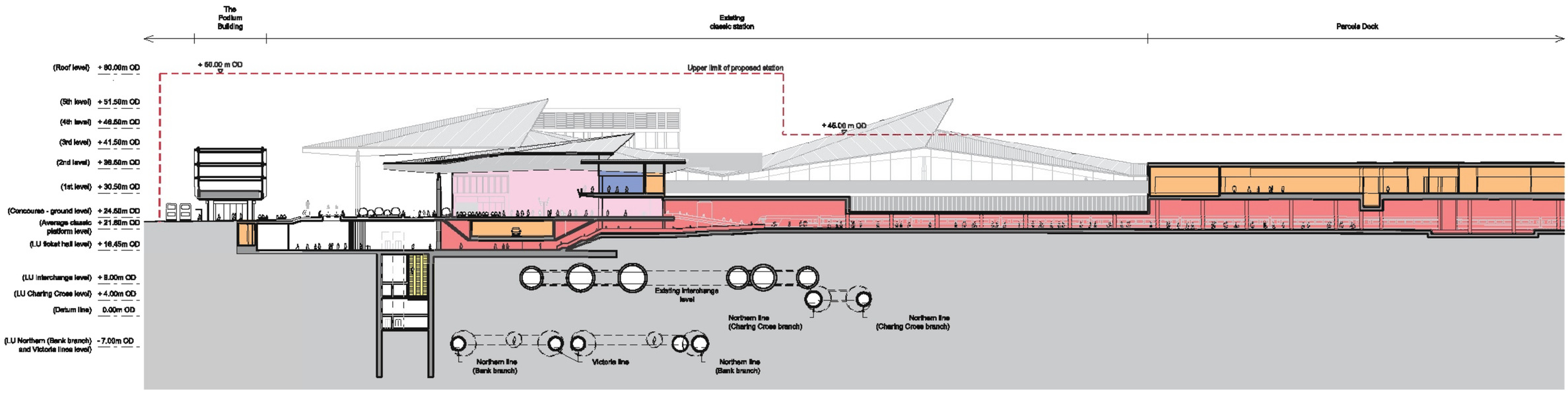
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Section 06
1:1000 @ A3



Section 07
1:1000 @ A3

0m 10m 20m 50m 100m

Legend

- HS platforms
- Classic platforms
- Lifts
- Escalators
- Concourse
- Passenger facilities
- Station facilities
- Entrances



Map Number
CT-20-003

Map Name
Euston Station - Long Sections

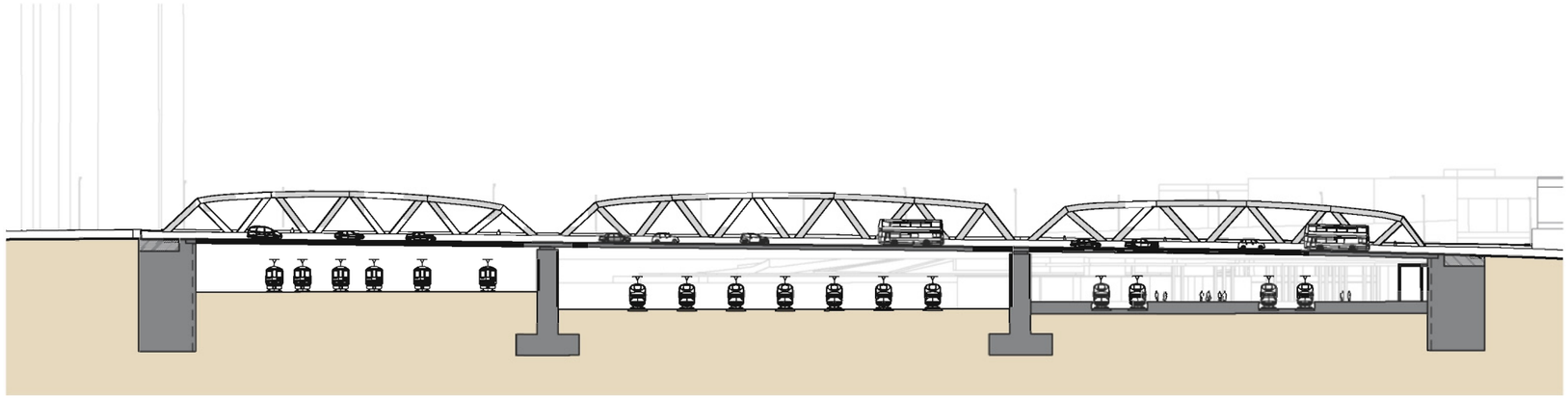
Community Forum Area
CFA01
Euston - Station and Approach

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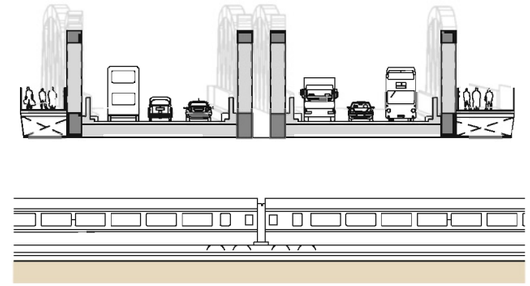
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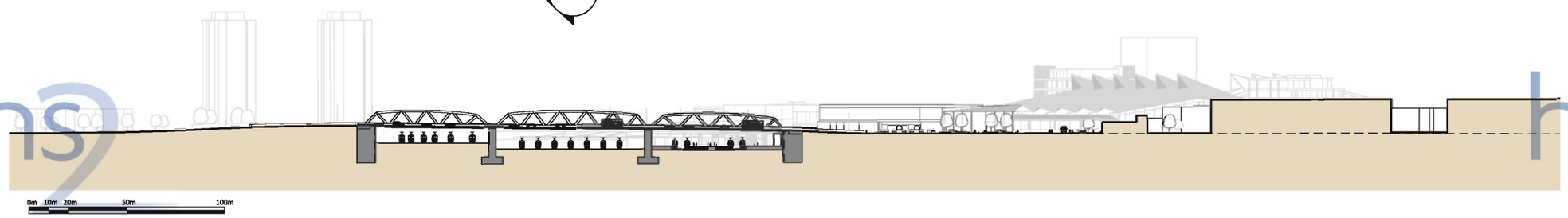
01 Elevation of Hampstead Road overbridge



02 Section A-A of Hampstead Road overbridge



03 Plan of Hampstead Road overbridge



04 Elevation of Hampstead Road overbridge and Station western facade

Legend

Map Number
CT-20-004

Map Name
A400 Hampstead Road overbridge

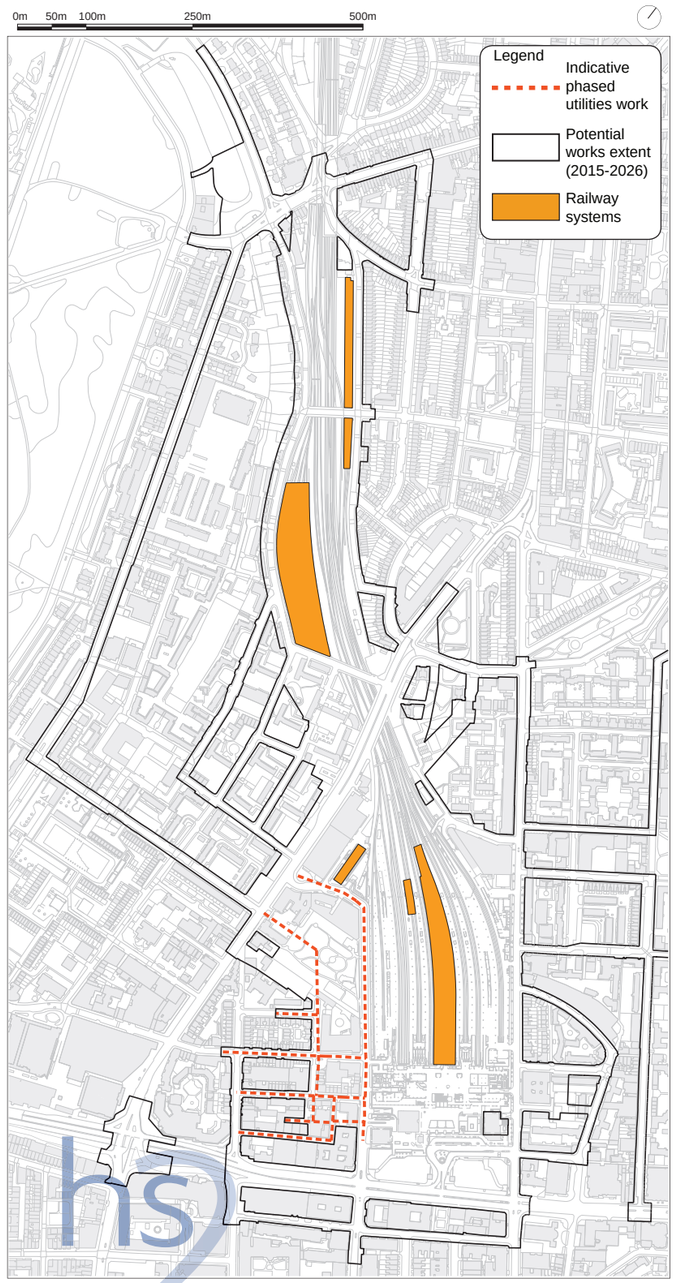
Community Forum Area
CFA01
Euston - Station and Approach

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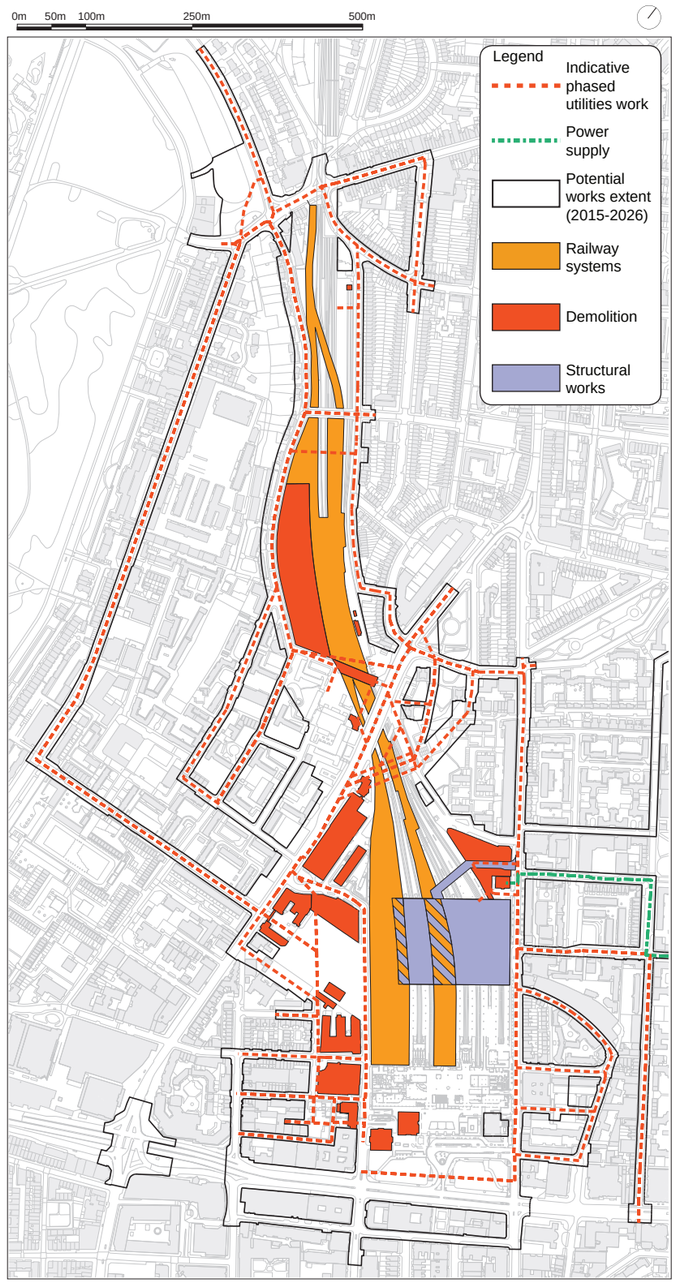
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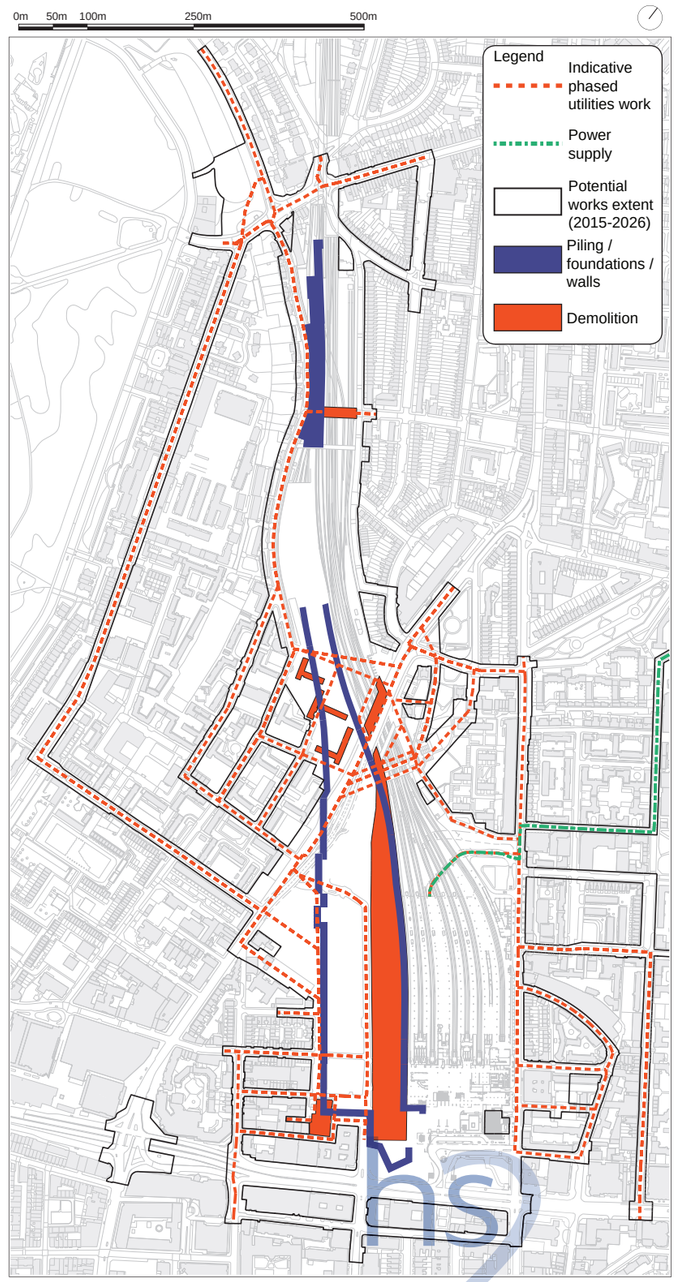
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2015



2016



2017

Figure Number CT-20-005

Figure Name
Construction Phasing Maps

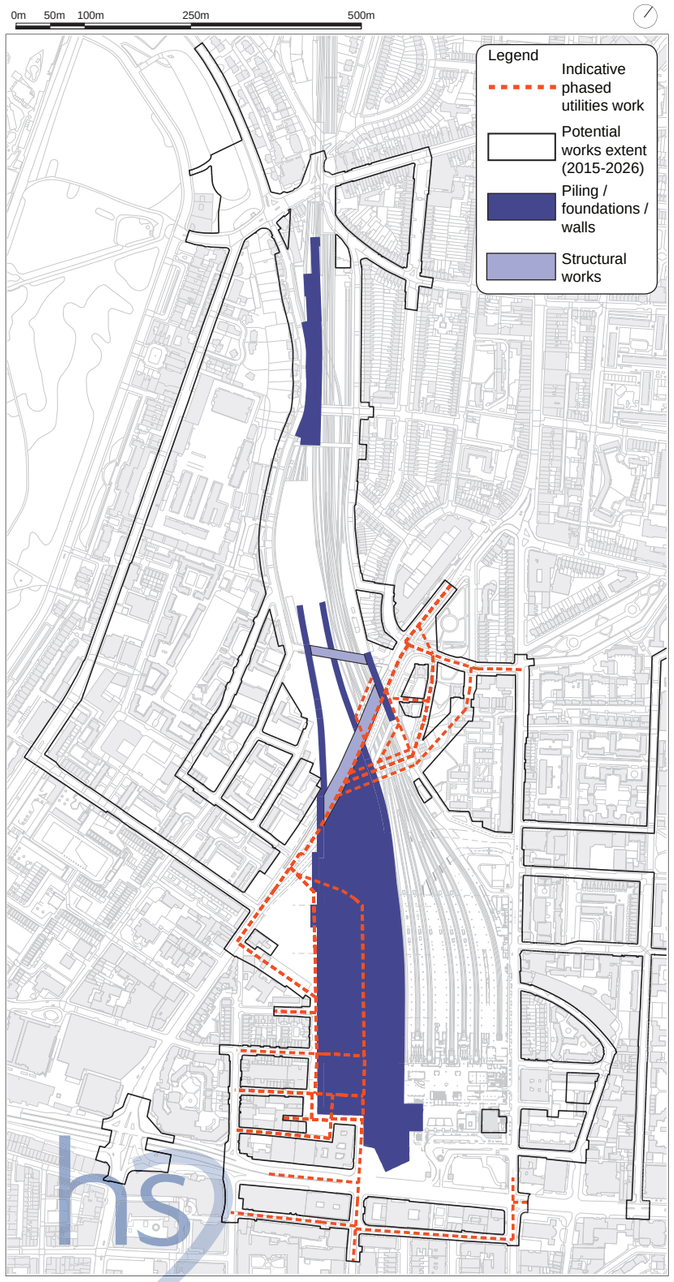
Community Forum Area CFA1:
Euston - Station and Approach

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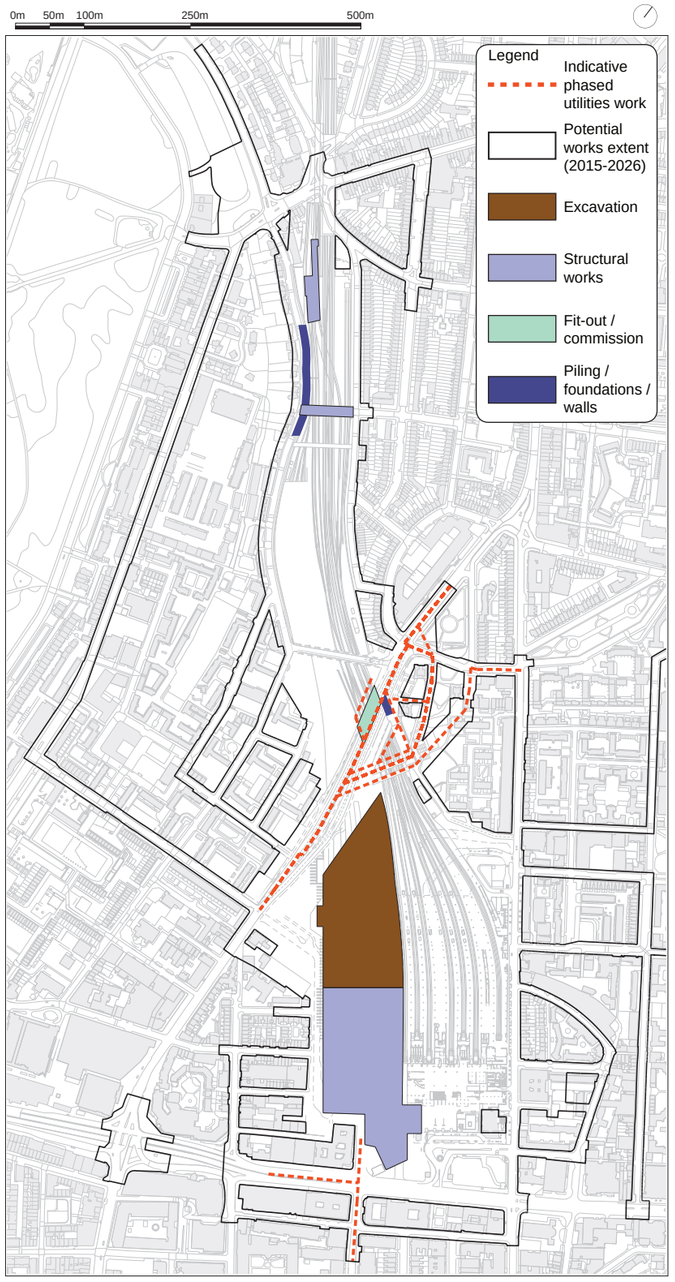
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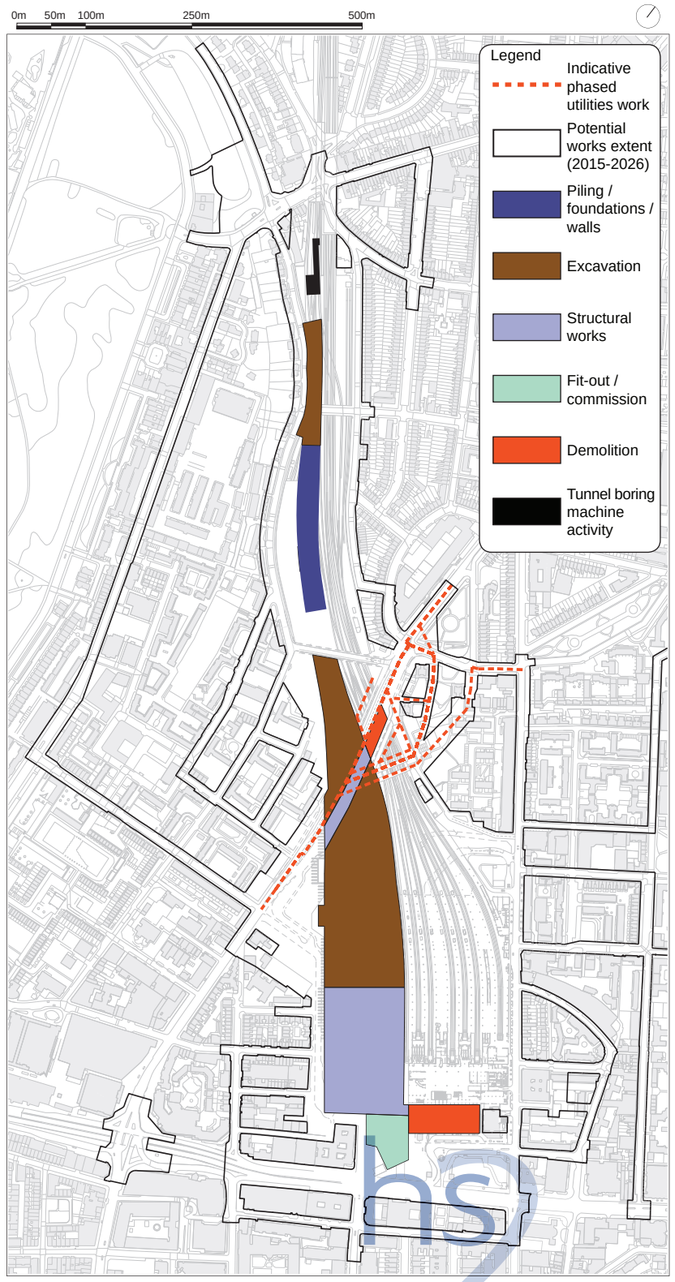
Date: 30/10/13



2018



2019



2020

Figure Number CT-20-006

Figure Name
Construction Phasing Maps

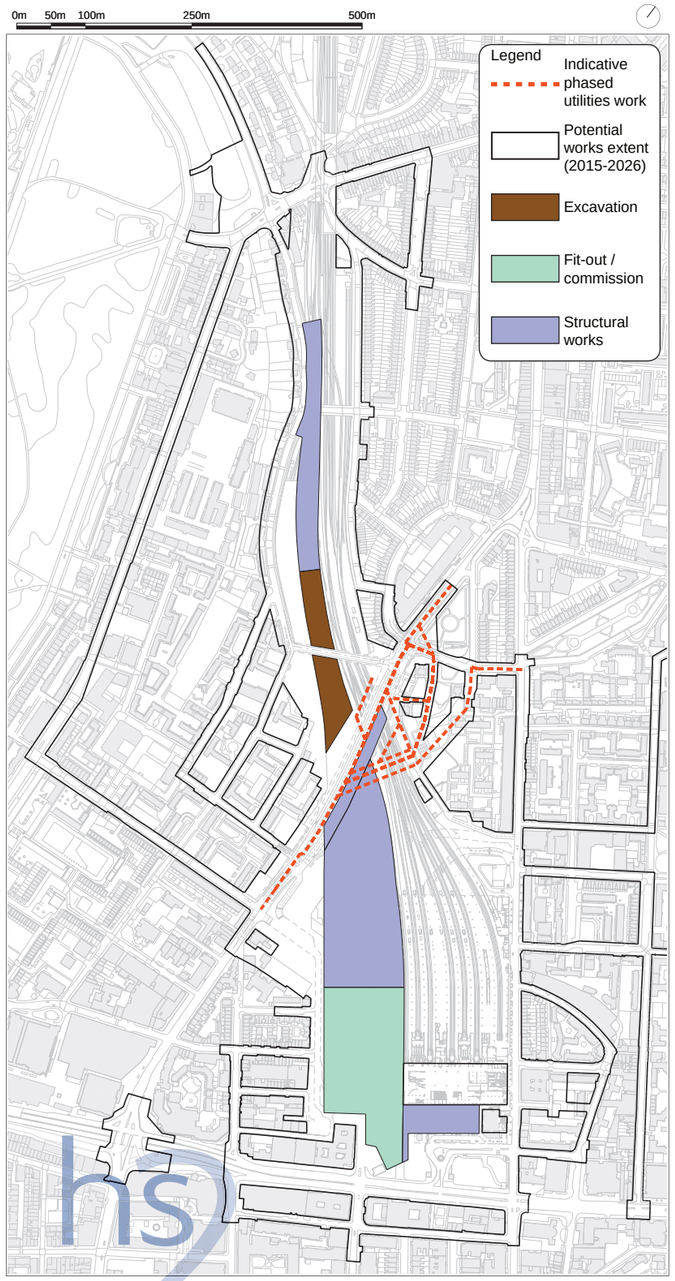
Community Forum Area CFA1:
Euston - Station and Approach

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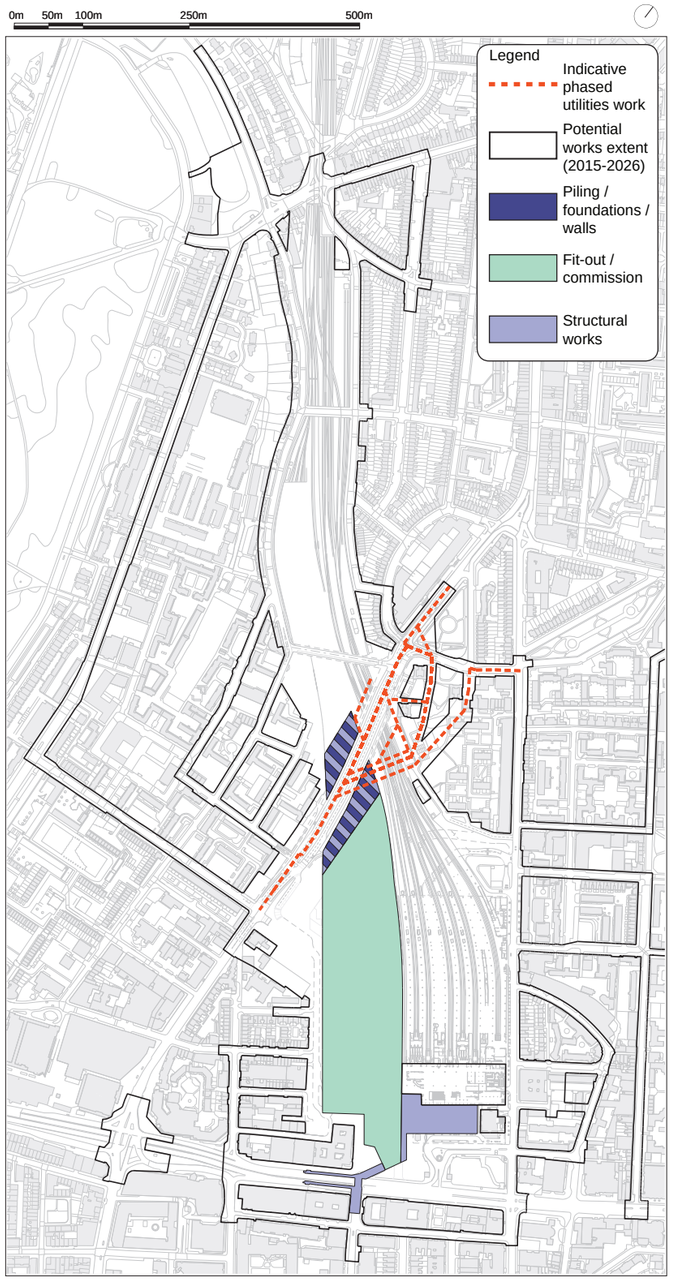
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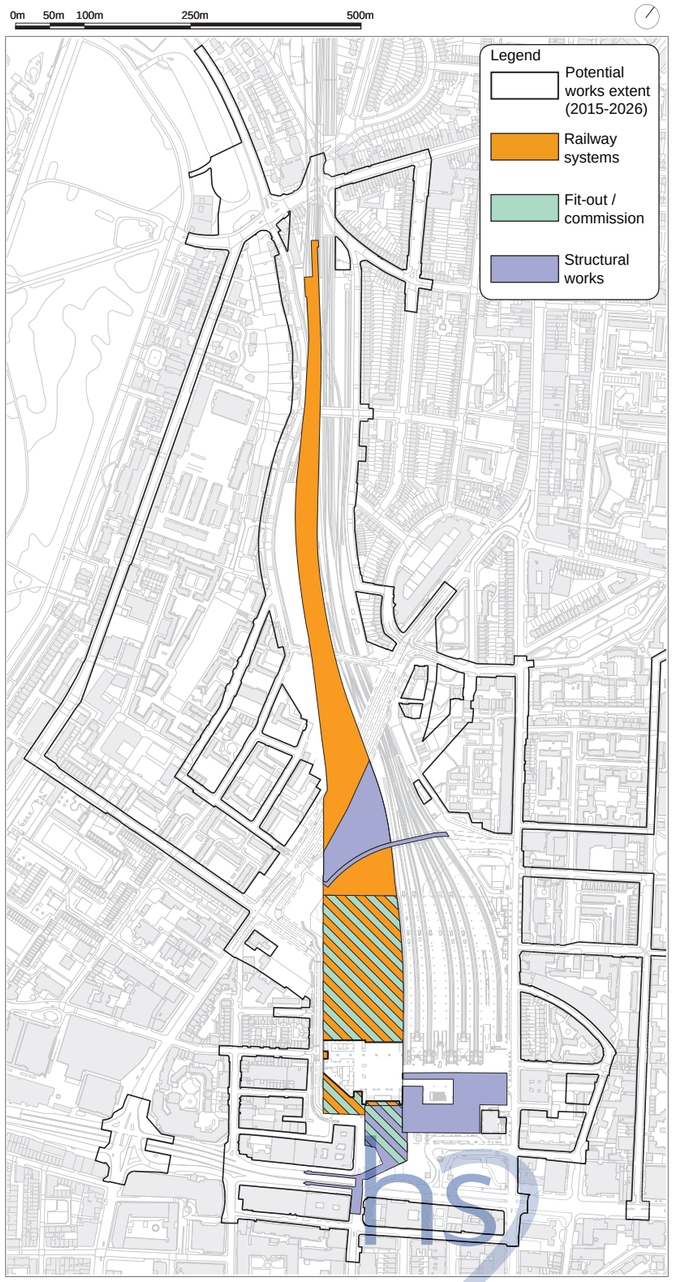
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2021



2022



2023

Figure Number CT-20-007

Figure Name
Construction Phasing Maps

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Euston - Station and Approach

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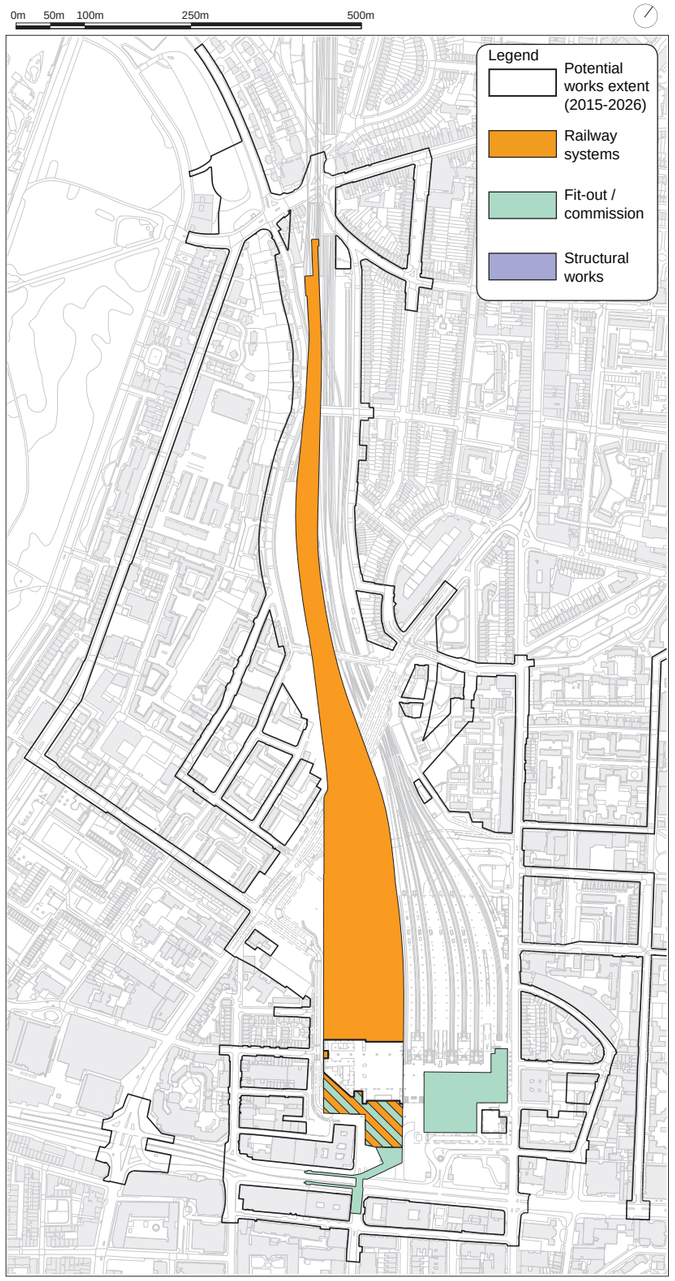
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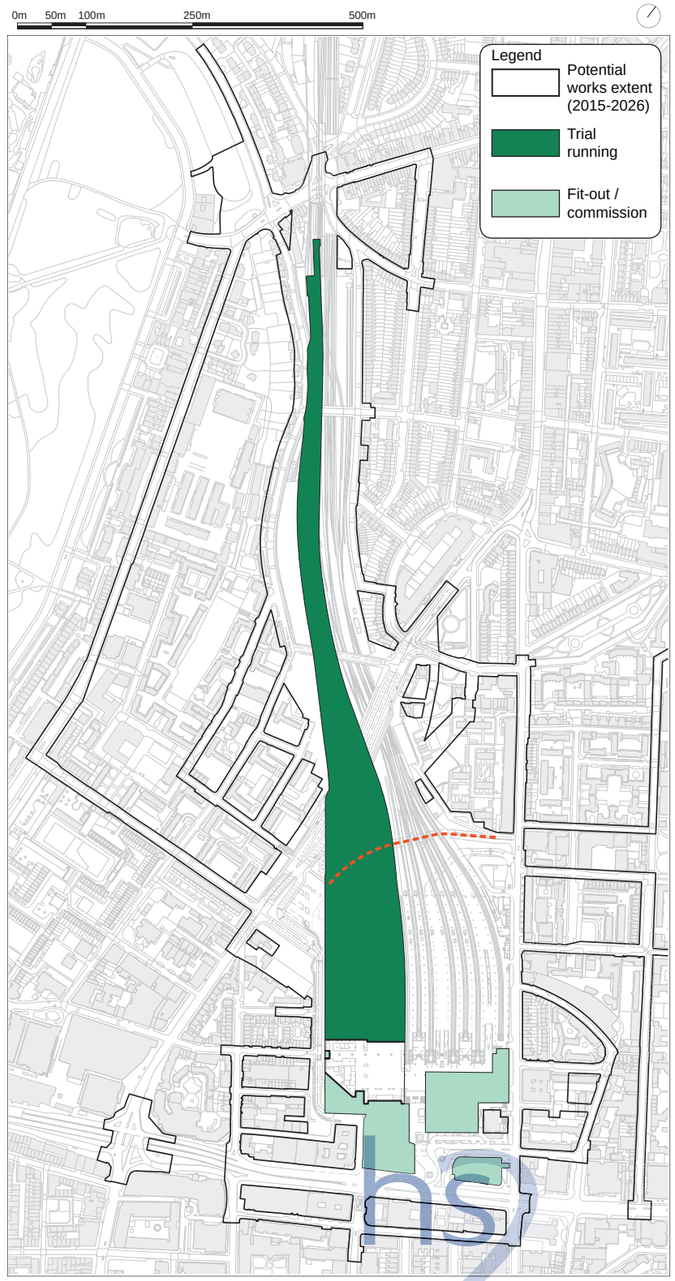
Date: 16/10/13



2024



2025



2026

Figure Number: CT-20-008

Figure Name: Construction Phasing Maps

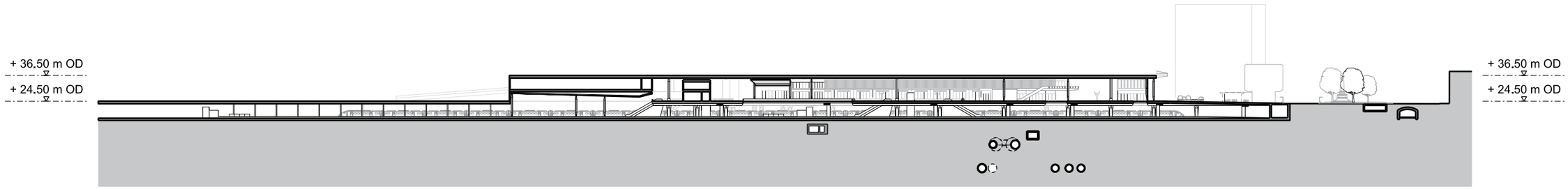
Community Forum Area CFA1:
Euston - Station and Approach

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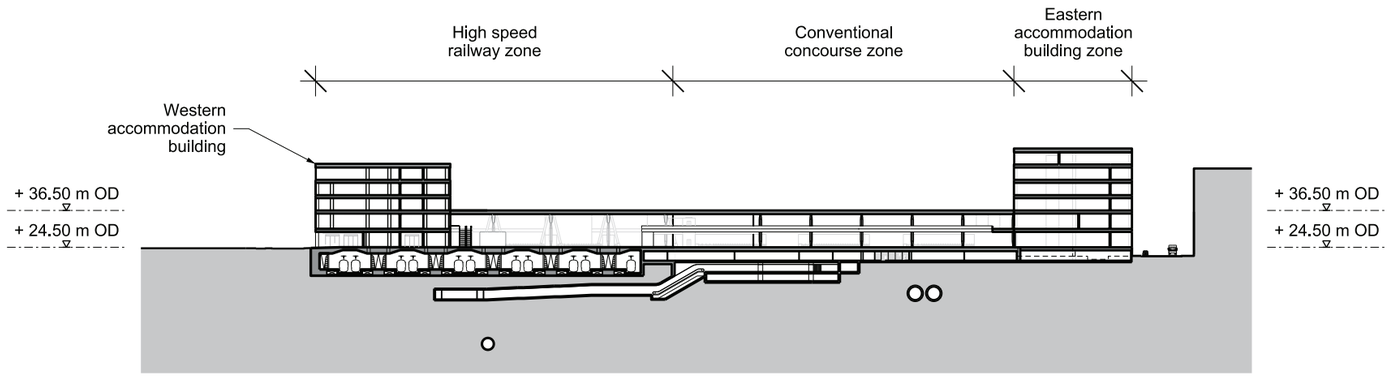
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Doc Number: C220-ARP-EV-DPL-01A-100308

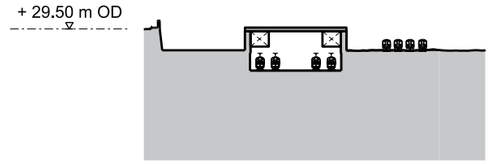
Date: 30/10/13



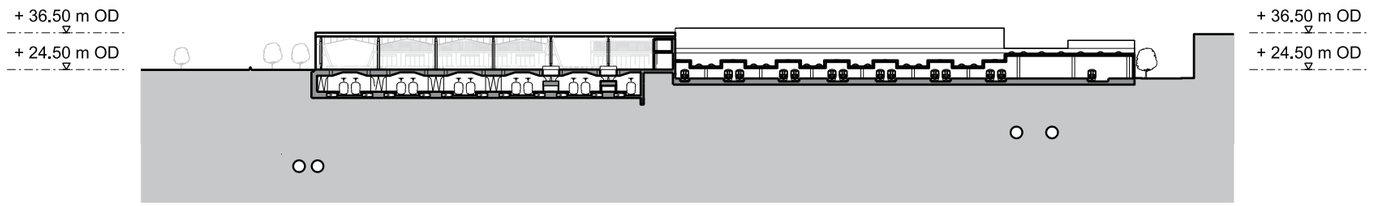
SECTION 4
1:2000 @ A3



SECTION 1
1:2000 @ A3



SECTION 3
1:2000 @ A3



SECTION 2
1:2000 @ A3

Key Plan

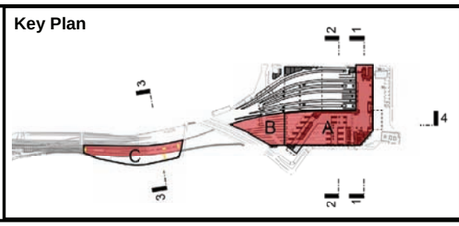


Figure Number
CT-20-009

Figure Name
Sections Showing Decks for Over Site Development Ancillary Works

Community Forum Area
CFA01
Euston - Station and Approach

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Doc Number: C220-ARP-EV-DPL-01A-100400

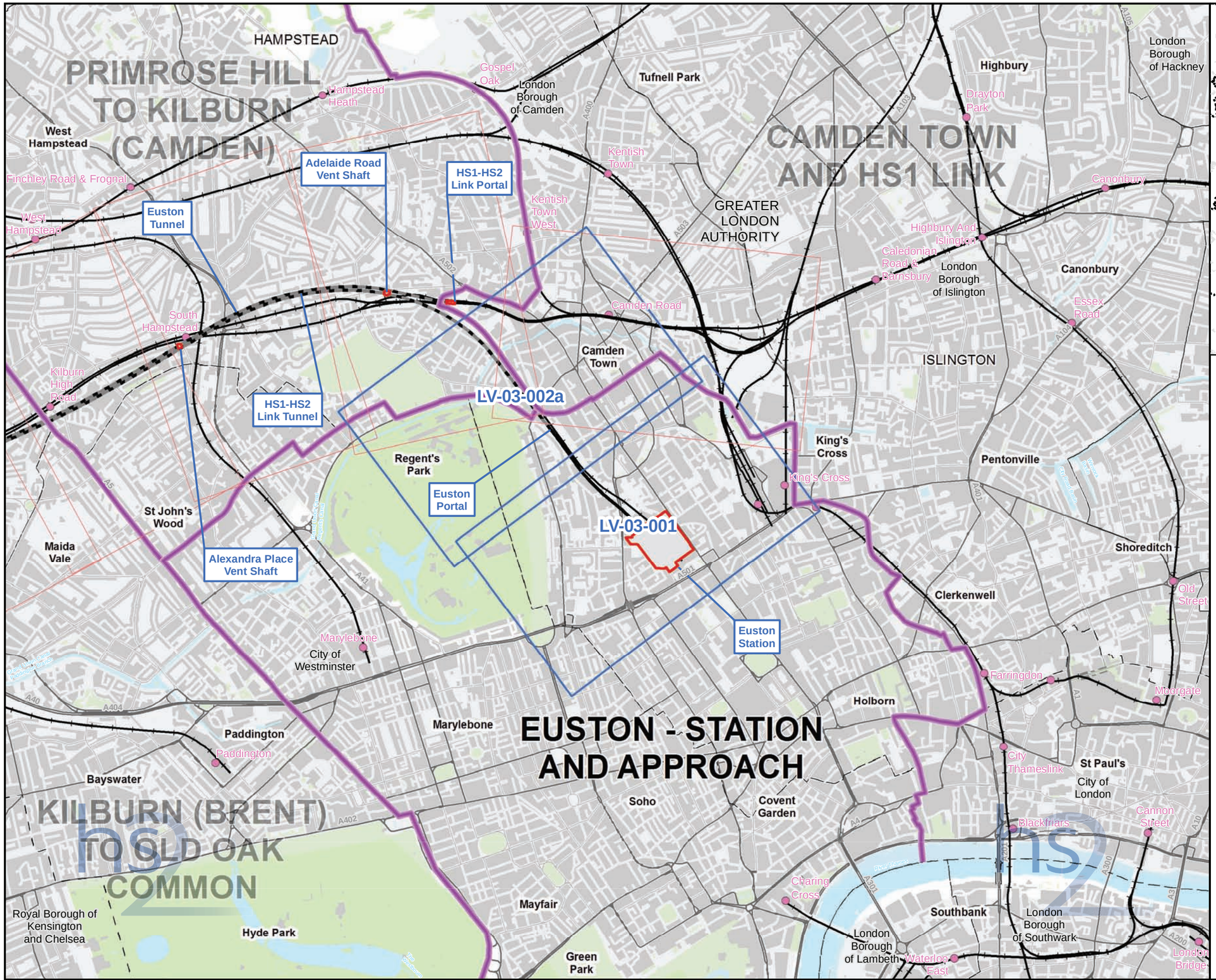
Date: 07/10/13

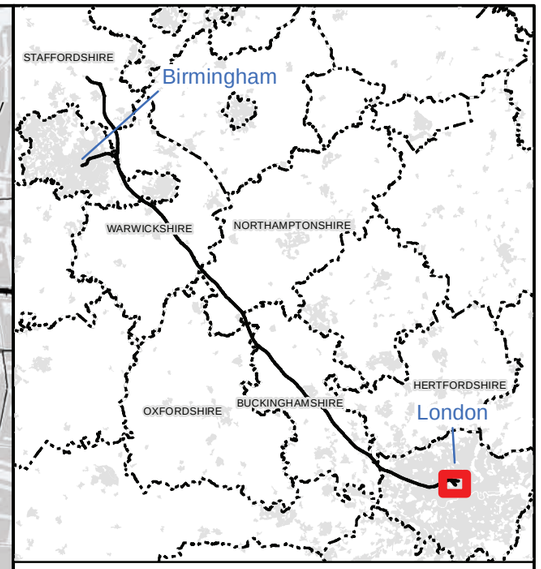
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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

LV-03 - Construction Phase Significantly Affected Viewpoints

LV-04 - Operational Phase Significantly Affected Viewpoints





Map Series Information:

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

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

Main Map Legend

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

Map Number: LV-03-INDEX-CFA1

Map Name: Index Map of: Construction Phase Significantly Affected Viewpoints

Community Forum Area CFA1: Euston - Station and Approach

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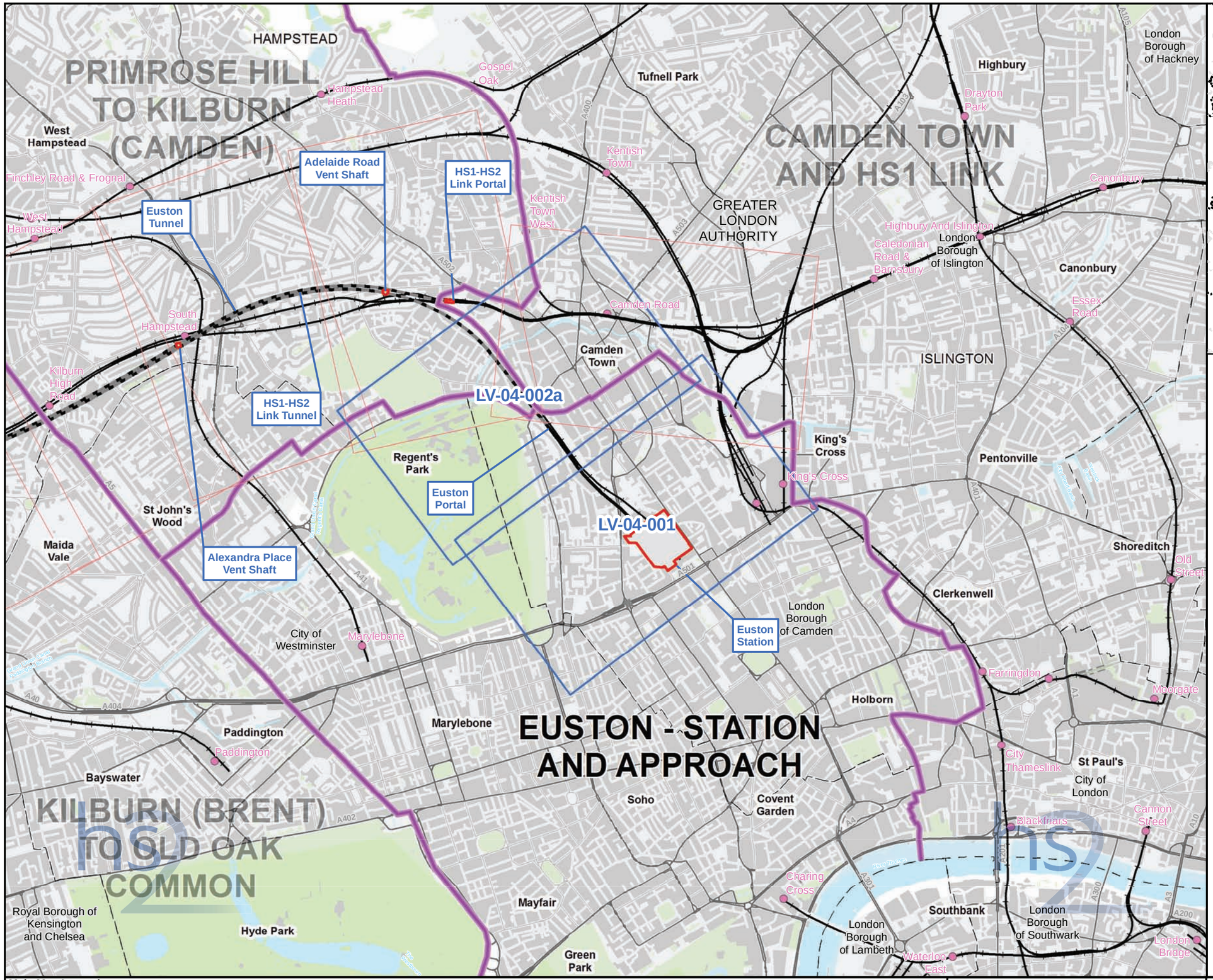
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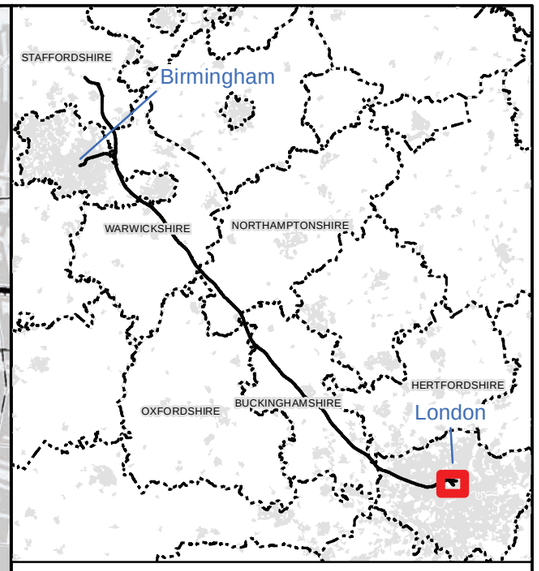
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Doc Number: C251-ETM-EV-MAP-01A-000118-P07.00

Date: 30/10/13





Map Series Information:

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

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

Main Map Legend

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

Map Number: LV-04-INDEX-CFA1

Map Name: Index Map of: Operational Phase Significantly Affected Viewpoints

Community Forum Area CFA1: Euston - Station and Approach

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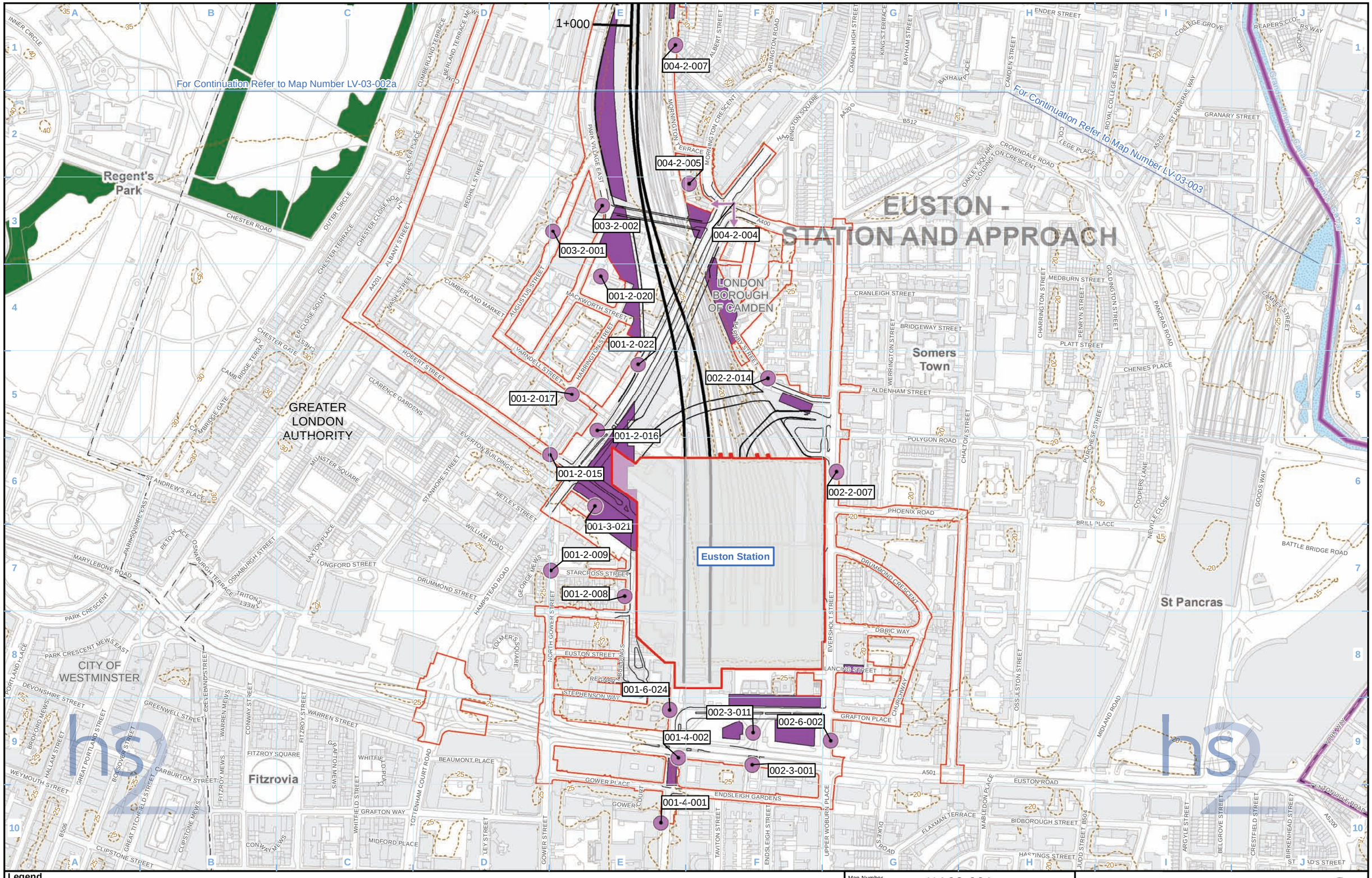
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Scale at A3: 1:25,000

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Doc Number: C251-ETM-EV-MAP-01A-000119-P07.00

Date: 30/10/13



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- County boundary
- District/Borough boundary
- Public Rights of Way
- 5m contours
- Water body
- Watercourse
- Existing woodland and tree belts
- Construction compounds
- Significantly affected viewpoint
- Photomontage location
- 001-1-001 Viewpoint number

Engineering earthworks:
- Embankment
- Cutting

Non engineering earthworks:
- Embankment
- Cutting

Map Number: LV-03-001

Map Name: Construction Phase Significantly Affected Viewpoints

Community Forum Area CFA1: Euston - Station and Approach

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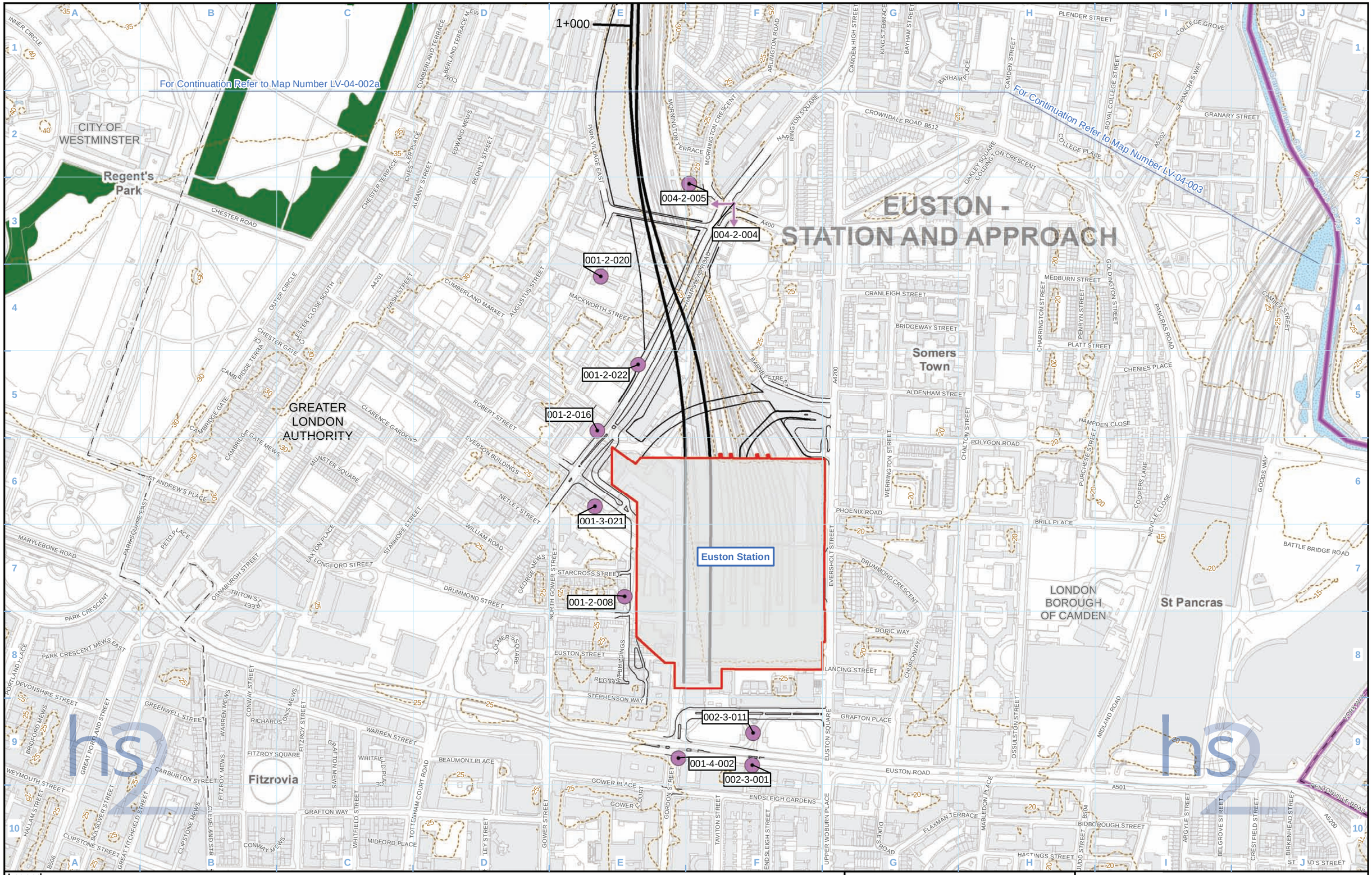
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Scale at A3: 1:5,000

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Doc Number: C251-ETM-EV-MAP-01A-000069-P07.00

Date: 30/10/13



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community forum boundary
- County boundary
- District/Borough boundary
- Public Rights of Way
- 5m contours
- Water body
- Watercourse
- Existing woodland and tree belts
- Proposed tree planting
- Significantly affected viewpoint
- Photomontage location
- 001-1-001 Viewpoint number
- Engineering earthworks: Embankment
- Engineering earthworks: Cutting
- Non engineering earthworks: Embankment
- Non engineering earthworks: Cutting

Map Number LV-04-001

Map Name
Operational Phase Significantly Affected Viewpoints

Community Forum Area CFA1:
Euston - Station and Approach

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0 50 100 150 200 Metres

Doc Number: C251-ETM-EV-MAP-01A-000071-P07.00

Date: 30/10/13

PRIMROSE HILL TO KILBURN (CAMDEN)

CAMDEN TOWN AND HS1 LINK

EUSTON - STATION AND APPROACH

Primrose Hill

Camden Town

Kentish Town

Euston Tunnel

Euston Portal

For Continuation Refer to Map Number LV-03-004a

For Continuation Refer to Map Number LV-03-003

For Continuation Refer to Map Number LV-03-001

GREATER LONDON AUTHORITY

CITY OF WESTMINSTER

LONDON BOROUGH OF CAMDEN

Regent's Park

2+000

1+000

006-3-005
006-3-004
006-2-008
006-6-001
004-2-040
004-1-034
004-3-036
004-2-039
004-4-035
004-1-030
004-4-033
004-2-028
004-2-032
004-4-027
004-4-031
004-1-029
004-4-026
004-2-021
004-4-025
004-1-022
004-2-024
004-4-023
004-2-020
004-4-019
004-2-018
004-2-017
004-4-016
003-2-010
004-1-010
004-2-008
004-2-007

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- County boundary
- District/Borough boundary
- Public Rights of Way
- 5m contours
- Water body
- Watercourse
- Existing woodland and tree belts
- Construction compounds
- Significantly affected viewpoint
- Photomontage location
- 001-1-001 Viewpoint number

Engineering earthworks:
- Embankment
- Cutting

Non engineering earthworks:
- Embankment
- Cutting

Map Number: LV-03-002a

Map Name: Construction Phase Significantly Affected Viewpoints

Community Forum Area CFA1: Euston - Station and Approach

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Scale at A3: 1:5,000

0 50 100 150 200 Metres

Doc Number: C251-ETM-EV-MAP-01A-000070-P07.00

Date: 30/10/13

PRIMROSE HILL TO KILBURN (CAMDEN)

CAMDEN TOWN AND HS1 LINK

EUSTON - STATION AND APPROACH

Primrose Hill

Kentish Town

Camden Town

LONDON BOROUGH OF CAMDEN

GREATER LONDON AUTHORITY

CITY OF WESTMINSTER

Regent's Park

Euston Tunnel

Euston Portal

2+000

1+000

003-2-010

004-4-023

004-2-024

004-2-020

004-2-018

004-1-034

006-3-004

For Continuation Refer to Map Number LV-04-004a

For Continuation Refer to Map Number LV-04-003

For Continuation Refer to Map Number LV-04-001

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community forum boundary
- County boundary
- District/Borough boundary
- Public Rights of Way
- 5m contours
- Water body
- Watercourse
- Existing woodland and tree belts
- Proposed tree planting
- Significantly affected viewpoint
- Photomontage location
- 001-1-001 Viewpoint number
- Engineering earthworks: Embankment, Cutting
- Non engineering earthworks: Embankment, Cutting

Map Number: LV-04-002a

Map Name: Operational Phase Significantly Affected Viewpoints

Community Forum Area CFA1: Euston - Station and Approach

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Scale at A3: 1:5,000

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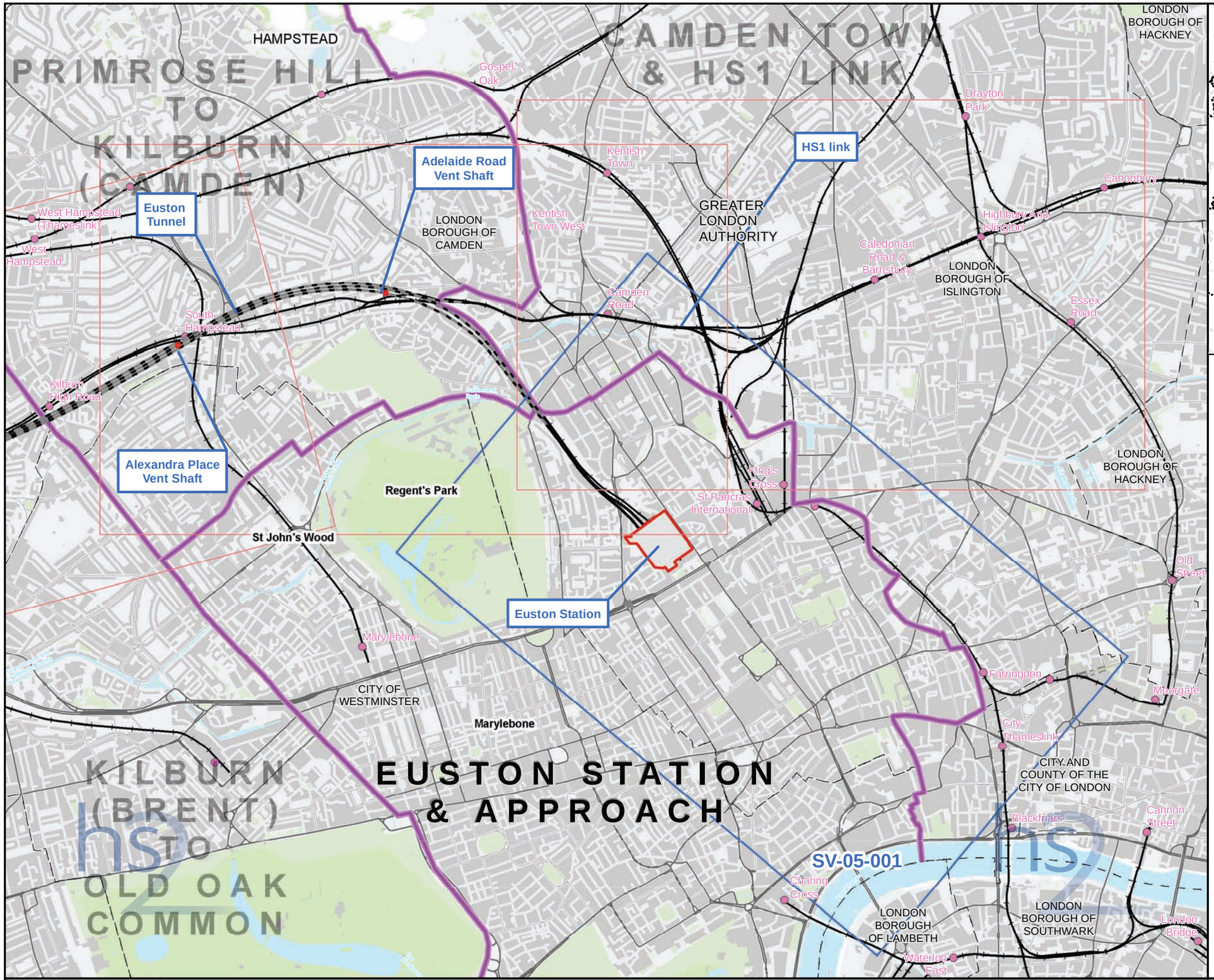
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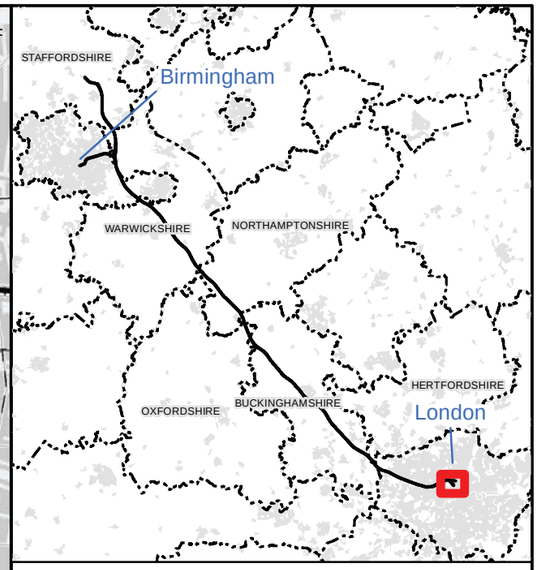
Date: 30/10/13

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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

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





Map Series Information:

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

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

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

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

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

Main Map Legend

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

Map Number: SV-05-INDEX-CFA1

Map Name:

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

Community Forum Area CFA1:
Euston

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Scale at A3: 1:25,000

0 250 500 750 1,000 Metres

Doc Number: C250-ARP-EV-MAP-000-004161--P04.00

Date: 29/10/13

CAMDEN TOWN AND HS1 LINK

EUSTON - STATION AND APPROACH

Panel A

HS2 (rail only) sound level $L_{pAeq,T}$		Potential noise effect[1, 2]	
Night-time $L_{pAeq,T}$ (T=23:00 to 07:00)	Daytime $L_{pAeq,T}$ (T=07:00 to 23:00)	Residential	Non-residential & quiet areas
> 55 dB	> 62 dB	Likely significant effect on dwellings indicated by ○, ✳ or ✕ avoided by noise insulation	Effect dependent on receptor and baseline. For further details see Volume 5, Appendix SV004. Likely significant effect indicated by OSV#-N#[2]
40 to 55 dB	47 to 62 dB	Effect dependent on sound level change (see Panel B) and significance criteria. Likely significant effects on groups of dwellings and associated facilities indicated by OSV#-C#[2]	
< 40 dB	< 47 dB	Generally no adverse effect expected[1]	

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

Panel B

Operational airborne sound impacts at buildings+
Change in sound level ($L_{pAeq,T}$ day / night)

- Major adverse (>10dB)
- Moderate adverse (5dB to 10dB)
- Minor adverse (3dB to 5dB)
- Negligible (-3dB to 3dB)
- Beneficial (<-3dB)

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

CFA2/6
CFA2/7
CFA2/8
CFA2/12
CFA2/13
CFA1/28
CFA2/17
CFA2/18
CFA1/7
CFA1/12
SV02-C01
OSV01-C01
Euston Station
Euston Portal
LONDON BOROUGH OF CAMDEN
CITY AND COUNTY OF THE CITY OF LONDON
LONDON BOROUGH OF SOUTHWARK
LONDON BOROUGH OF LAMBETH
CITY OF WESTMINSTER
For Continuation Refer to Map Number SV-05-071
For Continuation Refer to Map Number SV-05-002a
1+000

Camden Town
Somers Town
St Pancras
Clerkenwell
Holborn
Bloomsbury
St Giles
Strand
Fitzrovia
Regent's Park

Legend - General features

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

Engineering earthworks:
- Embankment
- Cutting

Non engineering earthworks:
- Embankment
- Cutting

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

Legend - Sound related features

- Committed developments (labelled as CFA#/#)

Envisaged mitigation to avoid / reduce significant noise effects:
- Landscaping and/or fence barriers*
- Engineering e.g. cuttings (green tunnels separately marked)

Envisaged measures further reducing noise effects:
- Other environmental e.g. landscaping
- Engineering e.g. cuttings

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

Map Number: SV-05-001

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

Community Forum Area CFA01: Euston - Station and Approach

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