

HS2 Context Report

Prepared For South Northamptonshire District

May 2017

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Preface

Purpose

This Planning Context Report provides an overview of HS2 works that will take place within South Northamptonshire District (the District) and a programme for making requests for approval under Schedule 17 to the High Speed Rail (London - West Midlands) Act 2017 ("the HS2 Act").

The report has been prepared in fulfilment of the requirements of paragraph 16 (1) (a) of Schedule 17 to the Act, which states:

A planning authority need not consider a request for approval under Part 1 [of Schedule 17 to the Act] unless:

a) the nominated undertaker has deposited with the authority a document setting out its proposed programme with respect to the making of requests under that Part to the authority,

This document accordingly sets out the proposed programme for making requests under Schedule 17 to the HS2 Act. This document also meets the requirement of paragraph 9.2 of the High Speed Rail (London – West Midlands) Planning Memorandum (the "Planning Memorandum"), which states that the `...*report is to include an indication of the location of the scheduled and non-scheduled works to which requests for approval are expected to relate.*'

Status

This document is deposited for information only. It does not require the approval of the planning authority.

Structure

This document contains three sections:

Section 1: Introduction to HS2

Describes in outline the HS2 project, summarises the planning regime and outlines obligations with respect to mitigation of environmental impacts.

Section 2: HS2 in South Northamptonshire District

Outlines the proposals within the District, and describes the permanent, preparatory and temporary works.

Section 3: Landscape and Restoration

Outlines landscape and restoration works proposed after construction.

Section 4: Programme for Requests for Approval under Schedule 17

Sets out the programme for submission of requests for approval.

Section 5: Planning Context Report Plans – Construction and Operation

Illustrates the location of permanent and temporary works in the District.

Other Relevant Documents

To understand the full background to the HS₂ proposals and to the planning regime under which requests for approval are to be made, reference should be made to the following documents:

- The HS₂ Act;
- The HS₂ Environmental Statement ; and
- The High Speed Rail (London West Midlands) Environmental Minimum Requirements ("the EMRs").

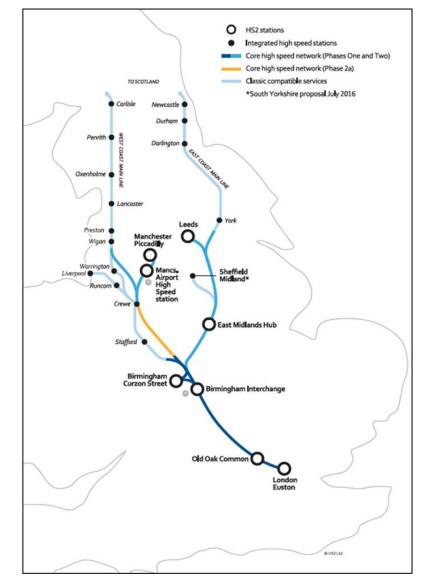
Annex 1 signposts these and other relevant documents.

1 Introduction to HS2

The HS₂ Project

- 1.1 HS2 is the Government's proposal for a new, high speed northsouth railway. The proposal is being taken forward in two phases: Phase One will connect London with Birmingham and the West Midlands and Phase Two will extend the route to Manchester, Leeds and beyond.
- 1.2 On 23rd February 2017 Royal Assent was granted for Phase One of HS2, which comprises of a new high speed railway between London and the West Midlands with stations at London Euston, Old Oak Common, Birmingham Interchange, and Birmingham Curzon Street. Figure 1 illustrates the Phase One route between London West Midlands and Phase Two proposals.

Figure 1: HS2 route map



Control of Environmental Impacts

- 1.3 The environmental impacts of the construction, maintenance and operation of HS2 will be controlled in three ways:
 - Controls within the HS₂ Act such as approvals for designs and construction arrangements;
 - Policies, commitments and undertakings entered into outside of the Act, including the EMRs; and
 - Existing legislation, unless expressly or impliedly dis-applied or modified by the HS₂ Act.
- 1.4 These controls are summarised below.

Environmental Statement

1.5 The HS2 Phase One Environmental Statement (ES) was published in November 2013. It has been supplemented by a number of additional volumes as further information has become available, and in light of proposed changes to the project¹.

- 1.6 The ES identifies the likely significant effects that will arise from the construction and operation of HS2 and identifies the range of mitigation measures that could be used to reduce or eliminate these effects. The assessment is based on a number of assumptions about design and construction practices.
- 1.7 As the project is taken forward to detailed design and construction there may be changes to assumed construction methods and design, subject to the requirements of the Act, the EMRs, and any approvals required from consent granting bodies, and in response to the requirements of any relevant Undertakings or Assurances.

Provision Environmental Statements were published and tabled by the Promoter in July 2015, September 2015, October 2015 and December 2015.

¹ An Environment Statement has been published with the Additional Provision tabled by the Promoter in September 2014. In addition, Supplementary Environmental Statements and Additional

Controls in the Act

The Planning Regime

- 1.8 Section 20 to the HS2 Act grants deemed planning permission under Part 3 of the Town and Country Planning Act 1990 ("the TCPA") for the works authorised by the HS2 Act. This permission is subject to the requirement that certain approvals need to be obtained from the relevant planning authorities under the planning regime established by Schedule 17 to the Act. The conditions in Schedule 17 are enforceable by the planning authority in accordance with the TCPA.
- 1.9 The principal works authorised by the HS2 Act are described in Schedule 1 (the "scheduled works"). The descriptions in Schedule 1 to the HS2 Act set out the type of work and their location, for example:

Work No.1/1 – A railway (23.48 kilometres in length) partly in tunnel, commencing at a point 235 metres east of the junction of North Gower Street with Drummond Street passing northwestwards and terminating beneath a point 80 metres northwest of the bridge carrying Ickenham Road over the Marylebone to Aylesbury Railway. Work No. 1/1 includes shafts at Coburg Street, Mornington Street, Granby terrace, Parkway, Adelaide Road, Alexandra Place, Canterbury Works and Greenpark Way, a station at Old Oak Common and a Crossover Box at Victoria Road.

- 1.10 The scheduled works must be constructed in the locations and to the levels relevant to each scheduled work shown on the deposited plans and sections (the 'Limits of Deviation'). The scheduled works may deviate vertically downwards from the levels shown to any extent, and may deviate upwards up to 3 metres subject to the upper limits defined for certain works such as stations, depots or shafts.
- 1.11 Section 2 to the HS2 Act authorises, within the Act limits, the construction and maintenance of a wide range of other development for the purposes of or in connection with the scheduled works, or otherwise for Phase One purposes. Section 2 also authorises, within the Act limits, the carrying out and maintenance of landscaping and other works to mitigate adverse effects of the construction, maintenance or operation of the works and to carry out and maintain works for the benefit or protection of land affected by the works.
- 1.13 Such ancillary works may be constructed within Act limits as defined on the deposited plans. The HS2 Act only grants deemed planning permission for the construction of works which are not scheduled works if they are with the scope of the ES that accompanies the HS2 Act.
- 1.14 Schedule 2 to the Act authorises further works, including surveys and investigation of land, support of buildings, works to trees, discharge of water, and temporary works to certain waterways.

- 1.15 Schedule 17 to the Act defines the detailed planning regime which will apply to the planning authority affected by works to construct and operate HS2.
- 1.16 The planning regime under Schedule 17 is different to that of the TCPA. It differs from the TCPA process in how it defines the matters that require approval and the grounds that the planning authorities can have regard to in determining requests for approval. The grounds for the imposition of conditions and/or the refusal of Schedule 17 submissions are limited in comparison to the TCPA process. This is because the works already have deemed planning permission through the Act and there are other complementary controls imposed through the HS2 Act and EMRs.
- 1.17 Schedule 17 requires the nominated undertaker to submit the following details to planning authorities, for approval or agreement:
 - Plans and specifications of certain works;
 - Matters ancillary to development ("construction arrangements");
 - Road Transport (lorry routes);
 - Bringing into use; and
 - Site restoration schemes.

- 1.18 Planning authorities who have given the Secretary of State undertakings, as set out in the Planning Memorandum, with respect to the handling of planning matters under Schedule 17, have become 'qualifying authorities'. The main provisions of the Planning Memorandum are summarised in Section 1.51 below.
- 1.19 The District has become a qualifying authority.
- 1.20 In relation to qualifying authorities, the operations or works for which plans and specifications will be submitted for approval are identified in Table 1.

Table 1: Operations or works requiring approval of plans and specifications

PLANS AND SPECIFICATIONS	
BUILDING WORKS (paragraph 2 of Schedule 17)	The erection, construction or alteration of any building, other than a temporary building.
OTHER CONSTRUCTION WORKS	Road vehicle parks;
(paragraph 3 of Schedule 17)	Earthworks;
	Sight, noise or dust screens;
	Transformers, telecommunication masts or pedestrian accesses to railway lines;
	Fences or walls, and
	Lighting equipment.

PLANS AND SPECIFICATIONS	
WASTE AND SPOIL DISPOSAL	Disposal of waste or spoil.
AND EXCAVATION (Paragraph 7 of	Excavations of bulk materials from
Schedule 17)	borrow pits.

- 1.21 In relation to qualifying authorities, development must be carried out in accordance with matters ancillary to development (construction arrangements) approved by the relevant planning authority (paragraph 4 of Schedule 17).
- 1.22 Schedule 17 enables the Secretary of State to make a class approval for construction arrangements, except in relation to construction camps (paragraph 5 of Schedule 17). A class approval was made by the Secretary of State on 24th March 2017, following consultation with the planning authorities affected, for the following generic construction arrangement matters: handling of re-usable spoil and topsoil; storage sites; site screening; artificial lighting; suppression of dust; road mud control measures. The approval of construction camps is not included in the class approval.
- 1.23 Where lorry movements exceed 24 movements per day to/from a construction site, the lorry route must be approved (paragraph 6 of Schedule 17) by the relevant qualifying authority.

- 1.24 The relevant qualifying authority approves a bringing into use request for approval (paragraph 9 of Schedule 17), for most scheduled works, apart from any which are below ground, and maintenance depots. The purpose of bringing into use requests is to ensure that appropriate mitigation has been incorporated, and no such work can be brought into use without such approval.
- 1.25 A site restoration scheme will be submitted for agreement with the relevant planning authority in accordance with paragraph 12 of Schedule 17.
- 1.26 The planning authority must have regard to statutory guidance issued by the Secretary of State in accordance with paragraph 26 of Schedule 17 to the HS2 Act.

Other Consents in the Act

1.27 In addition to the planning regime described above, Schedules 4 and 33 to the HS2 Act contain provisions setting out the protections to be provided for various bodies with statutory responsibilities likely to be affected by the works.

Schedule 4 – Accesses to highways affecting traffic

1.28 To control the impact of constructing new or altering existing accesses onto the local road network, local highway authorities have an approval role. For the opening of an access onto, or the alteration of, a road at a place shown on the deposited plans the works must be carried out in accordance with plans and specifications approved by the highway authority. In addition the local highway authority may require the access to be moved elsewhere within the Act limits where that is reasonably capable of being done. If an access is required at a location other than that shown on the deposited plans, the consent of the highway authority is required, subject to its approval of plans and specifications.

Schedule 4 – Stopping up, diversion and interference with the highway

1.29 During construction the temporary closure, diversion or interference with highways will be required. In order to address local impacts the Act provides for highway authority input. Where a highway is specified within the Act, the nominated undertaker must consult the highway authority about the exercising of the powers before doing so. Where the powers are to be exercised in relation to a highway not specified within the Act the nominated undertaker must obtain the consent of the highway authority.

Schedule 33 – Highways

1.30 Part 1 of Schedule 33 requires the nominated undertaker in exercising the powers in the Act in relation to highways to have regard to the potential disruption of traffic and to seek to minimise such disruption so far as reasonably practicable, and gives highway authorities rights of approval over various matters concerning details of the works affecting highways.

- 1.31 Additional controls are contained in Schedule 4. Where the nominated undertaker constructs a new or alters an existing highway, the construction or alteration must be completed to the reasonable satisfaction of the highway authority, who shall certify that fact in writing to the nominated undertaker.
- 1.32 Where the nominated undertaker constructs or realigns a highway that is constituted or comprises a carriageway, it must be carried out in accordance with plans, sections and specifications approved by the highway authority.

Schedule 33 – Water

- 1.33 The construction of HS2 will have impacts on inland waterways and land drainage, flood defences, water resources and fisheries. In order to address these impacts the Act includes a range of controls for the relevant authorities.
- 1.34 The impacts on inland waterways are addressed in Part 4 of Schedule 33, this gives the Canal and River Trust the power to approve plans and specifications for works affecting waterways for which it is responsible.
- 1.35 Part 5 of Schedule 33 states that before beginning to construct any "specified work" (in the main, those affecting drainage, flood storage and flood defence, the flow or purity of water and conservation of water resources), the nominated undertaker will submit plans, including method statements, for the works to the Environment Agency or local drainage authorities (i.e. lead local flood authorities, or internal

drainage boards) for approval. Works will be constructed in accordance with the approved plans.

- 1.36 The Environment Agency or local drainage authorities may, amongst other matters, make conditions requiring the nominated undertaker at its own expense to construct such protective works as are reasonably necessary to safeguard any drainage work against damage or to ensure its efficiency for flood defence purposes is not impaired during the construction of the specified works.
- 1.37 These provisions have effect instead of the normal consenting regime which would apply, for example, under the Land and Drainage Act 1991, or the Environmental Permitting Regulations 2010.

Schedule 33 - Other Controls

1.38 Schedule 33 – Protective provisions also include the requirement for consultations and agreements from statutory utilities undertakers.

Schedule 18 – Listed Buildings

1.39 The HS2 Act disapplies the normal controls requiring conservation area consent and listed building consent under the Planning (Listed Building and Conservation Areas) Act 1990, for the demolition, alteration or extension of listed buildings and unlisted buildings. The disapplication applies to the extent specified in Schedule 18 to the Act.

1.40 In recognition of the removal of the requirement for listed building consent, heritage agreements have been entered into between the nominated undertaker, Historic England and relevant local authorities. These agreements require approvals to detailed method statements in relation to the works subject to the disapplication of the normal listed building controls.

Environmental Minimum Requirements

- 1.41 There are a variety of control mechanisms and mitigation strategies outside of the HS2 Act. These are captured in the EMRs.
- 1.42 The EMRs are a suite of documents that have been developed in consultation with local authorities and other relevant stakeholders. The nominated undertaker is contractually bound to comply with the controls set out in the EMRs, through the Development Agreement with the Secretary of State.
- 1.43 The controls contained in the EMRs, along with powers contained in the HS2 Act and the Undertakings given by the Secretary of State, will ensure that impacts which have been assessed in the ES will not be exceeded, unless any new impact or impacts in excess of those assessed in the ES:

- results from a change in circumstances which was not likely at the time of the ES²;
- would not be likely to be environmentally significant³;
- results from a change or extension to the project, where that change or extension does not itself require environmental impact assessment (EIA) under either (i) article 4(1) of and paragraph 24 of Annex 1 to the EIA Directive⁴; or (ii) article 4(2) of and paragraph 13 of Annex 2 to the EIA Directive⁵; or
- would be considered as part of a separate consent process (and therefore further EIA if required).
- 1.44 In addition to general principles, the EMRs comprise:
 - a number of specific requirements, including that the nominated undertaker will use reasonable endeavours to adopt mitigation measures that will further reduce any adverse environmental impacts caused by HS2, insofar as these mitigation measures do not add unreasonable costs to the

project or unreasonable delays to the construction programme;

- the undertakings and assurances given to Parliament and petitioners by the Secretary of State during the passage of the High Speed Rail (London – West Midlands) Bill (the Bill); and
- the Code of Construction Practice, Planning Memorandum, Heritage Memorandum, and Environmental Memorandum.

Undertakings and Assurances

1.45 During the passage of the Bill through Parliament, the Secretary of State entered into a range of undertakings and assurances. The HS₂ Act Register of Undertakings and Assurances contains all the undertakings and assurances given to petitioners and to Parliament before and during the passage of the Bill. The register forms part of the EMRs and as a result the nominated undertaker is contractually bound to deliver them.

Code of Construction Practice

1.46 The Code of Construction Practice (CoCP) is Annex 1 of the EMRs. It sets out specific details and working practices in relation to site preparation (including site investigation and remediation, where appropriate), demolition, material

² i.e. a situation that could not reasonably have been anticipated at the time of the ES.

³ This covers all effects (both positive and adverse) where those effects are simply of no environmental significance.

⁴ 2011 consolidated EIA Directive (2011/92/EU).

⁵ Broadly, this would not allow those changes or extensions to the project which would give rise to adverse environmental effects within the EIA.

delivery, excavated material disposal, waste removal and all related engineering and construction activities.

- 1.47 The CoCP sets out the measures that nominated undertaker and contractors are required to implement in order to limit disturbance from construction activities, as far as reasonably practicable:
 - General requirements related to community relations, hours of work, pollution incident control and security, etc;
 - Agriculture, forestry and soils;
 - Air quality;
 - Cultural heritage;
 - Ecology;
 - Ground settlement;
 - Land quality;
 - Landscape and visual;
 - Noise and vibration;
 - Traffic and transport; and
 - Water resources and flood risk.
- 1.48 Local Environmental Management Plans (LEMPs) will be prepared for each local authority area.

- 1.49 The LEMPs will include a number of specific measures by topic, as relevant to each local authority area. The LEMPs will build on the general environmental requirements contained in the CoCP and will set out how the project will adapt and deliver the required environmental and community protection measures within each relevant local authority area.
- 1.50 The nominated undertaker and/or its contractors will engage with the local communities, local authorities and other stakeholders in order to develop the LEMPs.

Planning Memorandum

1.51 The Planning Memorandum is Annex 2 of the EMRs. It sets out in detail the responsibilities and requirements in relation to planning matters for those authorities that choose to become qualifying authorities. It also sets out requirements for the nominated undertaker in the implementation of Schedule 17 of the HS2 Act.

Heritage Memorandum

1.52 The Heritage Memorandum is Annex 3 of the EMRs. It provides a framework for the nominated undertaker, Historic England, local authorities and other stakeholders to work together to ensure that the design and construction of Phase One is carried out with proper regard to the historic environment.

Environmental Memorandum

1.53 The Environmental Memorandum is Annex 4 of the EMRs. It provides a framework for the nominated undertaker and representatives of the National Environment Forum to work together to ensure that the design and construction of the HS2 Phase One is carried out with due regard for environmental considerations.

Planning Forum

- 1.54 The HS2 Phase One Planning Forum was established to help co-ordinate and secure the expeditious implementation of the planning provisions in the Act. The primary objectives and functions of the Planning Forum are:
 - To prepare notes on related matters, which will set out standards and practices to be followed by those implementing the planning regime.
 - To consider common design items for certain structures associated with the railway (such as bridges, acoustic barriers or retaining walls).
- 1.55 The Planning Forum has a number of sub-groups:
 - Highways Subgroup.
 - Environmental Health Subgroup;
 - Heritage Subgroup; and
 - Flood Risk and Drainage Subgroup.

Environmental Management System

- 1.56 As part of the sustainability policy, the nominated undertaker will develop an environmental management system (EMS) in accordance with *BS EN ISO 14001*. The EMS provides the process by which environmental management, both within its organisation and in relation to its operations, is undertaken to ensure the relevant findings of the ES are addressed through the construction phase.
- 1.57 The nominated undertaker will require each of its main contractors to have an EMS certified to *BS EN ISO14001*. Their EMS will include roles and responsibilities, together with appropriate control measures and monitoring systems to be employed during planning and constructing the works for all relevant topic areas. Where the lead contractor is a joint venture, the EMS will be certified to cover the activities of the joint venture.

Management of Construction Traffic

1.58 The HS2 Routewide Traffic Management Plan (RTMP) describes the principles and objectives for the management of transport, highways and traffic during the delivery of the works. It codifies the discussions held with the highway authorities along the HS2 Phase One route via the Highway Subgroup to the Planning Forum and takes into account the best practice used during the delivery of similar large construction projects.

- 1.59 The RTMP document will be supplemented with a series of Local Traffic Management Plans (LTMPs) along the route.
 LTMPs will set out the full range of local controls, significant works programmes for highways and other appropriate matters.
- 1.60 Regular local Traffic Liaison Group (TLG) meetings have been established with local highway authorities so that matters such as LTMPs and site specific traffic management schemes can be reviewed prior to submission or approval and the implementation of schemes reviewed and other monitoring reported, along with other matters of interest discussed and co-ordinated.

Excavated Material & Waste Management

1.61 Measures to reduce potential impacts from waste management are described in section 15 of the CoCP. An integrated design approach has been developed to use excavated material to satisfy the fill material requirements wherever reasonably practicable. This approach will reduce the need for imported materials and reduce the amount of excavated material requiring off-site disposal. This includes reuse of all topsoil and agricultural subsoil as close to the point of excavation as practicable. 1.62 All waste generated from the design, construction and operation will be managed in accordance with the waste hierarchy. This places waste prevention as the preferred option at the top, followed by reuse, recycling and other recovery, with landfill disposal at the bottom as the last resort. Information Paper E₃ provides further detail.

Management of Noise and Vibration

- 1.63 The nominated undertaker will obtain consents under Section 61 to the Control of Pollution Act 1974, which will include noise limits and vibration limits where relevant and site specific management and mitigation requirements for noise and vibration, both on and off site.
- 1.64 In relation to the control of construction noise and vibration, Information E23 provides further detail. Information Papers E20, E21 and E22 provide further detail on operational noise from the railway.
- 1.65 Noise and vibration monitoring will be carried out at different times during the lifetime of the railway. Where noise and vibration performance deviates from expected conditions, actions will be taken as described in Information Paper F4.

Existing Legislation and Other Safeguards

1.66 Unless a piece of existing legislation is expressly or impliedly dis-applied or modified by the HS2 Act, it will continue to apply. For example, environmental permits in relation to discharges will still be required and the Control of Pollution Act 1974 (COPA) will continue to apply.

Oversite Development

- 1.67 The HS₂ Act does not grant approval for any oversite development. Consent for any such development will be applied for and determined through normal planning processes. However, the HS₂ Act does authorise works to enable future oversite development, for example the construction of additional foundations or deck structures.
- 1.68 The HS₂ Act also puts in place requirements in respect of the environmental assessment of oversite development. It defines the circumstance where the planning application for such development proposed to replace a building demolished or substantially demolished for HS₂ must be accompanied by an environmental impact assessment.

Safety and Security

- 1.69 HS2 will create a railway designed, built and operated with world-class health, safety and security standards. All HS2 infrastructure will be designed in accordance with appropriate standards and policies for public safety. The following are some key design principles that will be applied:
 - Adoption of hostile vehicle mitigation and blast resilient glazing and facades where appropriate;
 - Application of Crime Prevention Through Environmental Design principles across all of the HS2 network but with particular emphasis on all publicly accessible spaces;
 - Selection of vandal-resistant materials and designs;
 - Appropriate use of surveillance systems and lighting;
 - Integration of natural way-finding into designs to configure spaces that are easy to navigate and use of signage that is clean and unambiguous.

2 HS2 in South Northamptonshire District

Introduction

- 2.1 HS2 will enter the District from Aylesbury Vale District to the south. Hs2 crosses over the River Ouse and extends to the Boddington cutting, west of the District. The route in the District is approximately 21km in length beginning north of Turweston, and runs in a north-westerly direction past Brackley, Greatworth, Lower Thorpe, Chipping Warden and Lower Boddington. The route then continues in a north-westerley direction to the Stonetone Lane/Warwick Road junction where it leaves the District.
- 2.2 Section 5 of this report illustrates the location of works in the District. This section describes the permanent, preparatory and temporary works in the District.
- 2.3 As the project is taken forward to detailed design and construction there may be changes to assumed construction methods and design, subject to the requirements of the Act, the EMRs, and any approvals required from consent granting bodies, and in response to the requirements of any relevant Undertakings or Assurances.

Permanent Works

River Ouse to A43 Oxford Road

- 2.4 The route enters the District administrative area near to Turweston, along the alignment of the River Ouse. At this point the railway will cross the river on the Turweston Viaduct for approximately 80m. The viaduct will feature protection barriers on each side with added absorption measures in certain locations. The western edge of the viaduct will feature a noise barrier helping to reduce noise effects.
- 2.5 Close to the viaduct there will be a realignment of footpath BD8 and a realignment of the River Great Ouse around the embankments. A balancing pond for railway drainage with associated access will be located slightly north of the river and west of the railway. In addition, a replacement floodplain storage area will be located east of the railway.
- 2.6 The route will travel along the Helmdon embankment for approximately 600m with landscape planting featuring on both sides. The Whitfield auto-transformer station with associated access will be located south of the A43 Oxford Road on the west side of the railway. Two ecology grassland mitigation areas are proposed, one north of the River Great Ouse and the second located south of the existing A43 Oxford Road.

A43 Oxford Road to Brackley North Cutting

- 2.7 At this point the route will cross under the A43 Oxford Road dual carriageway located east of Brackley. It will be realigned to the north of its current alignment by up to 8om over a length of approximately 1.7km. The realignment commences in the west at a tie-in with the existing roundabout with Oxford Road and completes in the east near to the access onto The Avenue. A junction will connect Radstone Road and an underpass will maintain the connectivity of bridleways BD7 and BD10. Two balancing ponds for highway drainage with associated access are located to the east and west of the realigned road.
- 2.8 The line heads further north for approximately 1.5km in the Brackley South cutting and up to the Helmdon disused railway SSSI. This section will include hedgerows on either side of the cutting, a replacement overbridge of bridleway AX16 and an area of woodland habitat creation on the east side of the railway.
- 2.9 The Helmdon disused railway SSSI will feature a green overbridge at existing ground level, with the base of the cutting approximately 8m below. In addition, footpath AX15 and bridleway AX14 will be permanently diverted over the green bridge.
- 2.10 The route continues on the Brackley embankment for approximately 200m before entering into the Brackley north

cutting section for approximately 1.3km ending south of Halse Copse South. Landscape earthworks will feature on both sides of the cutting from Radstone Road to the south of Halse Copse South.

- 2.11 Two land drainage areas with associated access will be provided to the west of the railway on either side of Radstone Road along with balancing ponds for highway drainage. A further balancing pond will provide railway drainage with associated access to the east of the route.
- 2.12 An overbridge will be provided in this area that will be a replacement, in part, of footpath AX5 and bridleways AX18 and AX19. Finally, two further replacement floodplain storage areas will be excavated and regraded to the west of the railway.

Great North Cutting to Greatworth Green Tunnel

- 2.13 The railway enters the Greatworth area on embankment south-east of Halse Copse South. At this point there will be a regraded replacement floodplain storage area to the west of the railway. The line will then pass into the Greatworth North cutting for approximately 2.1km.
- 2.14 This section of route will include a land drainage area and an overbridge situated near to Halse Copse South. The overbridge will provide a replacement of footpath AN22 and farm access. In addition, there is an area of connecting

woodland between Halse Copse South and Halse Copse North to compensate for the loss of ancient woodland and to provide a habitat link between the two sites.

- 2.15 An area of grassland habitat will also be provided between the woodland and the route providing a species receptor site.
 Additional overbridges crossing the line will be constructed to provide replacement footpaths for AN19 and AN28, bridleways for AN37 and AN14 and to maintain existing farm access.
- 2.16 Continuing north within cutting additional permanent features in this area will include:
 - three land drainage areas located to the east of the railway;
 - a culvert passing under the railway, including maintenance access between Greatworth Hall and Greatworth reservoir;
 - noise fence barriers on the west side of the railway between Greatworth Hall and Greatworth;
 - a reconfigured land drainage area to the east and a balancing pond for railway drainage with associated access south of the dismantled railway;
 - an enlarged replacement floodplain storage area including land drainage to the west of the route near the dismantled railway;

- landscape earthworks on both sides of the railway to the north of the dismantled railway as to provide visual screening to the east and noise attenuation to the west; and
- the Greatworth auto-transformer station with associated access located on the western side of the railway and east of Greatworth.

Greatworth Green Tunnel

- 2.17 Passing east of Greatworth the route will enter into the Greatworth green tunnel where it will emerge just west of Sulgrave Road. The south portal buildings and associated access arrangements will be located east of Helmdon Road. There will be a reinstatement of Helmdon Road over the green tunnel and a permanent diversion of footpath AN13.
- 2.18 There will be additional reinstatement works over the tunnel providing access to Greatworth Park and footpaths AN4, AN40, and AN39. Hedgerows will be reinstated along the length of the green tunnel and there will be highway realignments along the B4525 Welsh Road and Sulgrave Road, including associated junction improvements that will include a balancing pond and hedgerow planting along the upgraded sections.
- 2.19 The green tunnel north portal buildings and associated access arrangements will be located west of Sulgrave Road.

Earthworks and woodland planting will be provided to integrate the new infrastructure into the landscape.

Thorpe Mandeville Cutting to Edgcote Viaduct

- 2.20 The route, continuing north, will enter into the Thorpe Mandeville cutting for approximately 750m. The cutting will feature landscape planting on both sides and a low height retaining wall required to maintain the stability of the earthwork. An area of grassland habitat will be created adjacent to the cutting as mitigation of the loss of a potential Local Wildlife Site. In addition, there is a land drainage area adjacent to the grassland site along with a realignment of footpath BB3, running parallel to the earthwork just south of Banbury Road.
- 2.21 It will be necessary to divert part of Banbury Road on an overbridge at existing ground level and provide noise fence barriers on the west side of the railway from north of Banbury Road to the end of the cutting.
- 2.22 Passing from the Thorpe Mandeville cutting the route will continue onto the Lower Thorpe embankment for approximately 350m, then over Banbury Lane on the Lower Thorpe viaduct for approximately 200m and 9m above ground level before entering onto the Lower Thorpe South embankment for the next 100m. Noise barriers will extend along both sides of the railway from the start of the

embankment and across the viaduct to approximately 240m north of Banbury Lane at Lower Thorpe.

- 2.23 There are significant mitigation works in this area that will include:
 - a replacement floodplain storage area and habitat protection at the edge of the boating lake at Lower Thorpe;
 - a replacement floodplain storage area north-east of the sewage works; and
 - a balancing pond for railway drainage and associated access located to the west of the railway and south of Lower Thorpe.
- 2.24 The route will then enter into a short cutting (Lower Thorpe South Cutting), approximately 50m long where it pass onto the Lower Thorpe North embankment for approximately 440m before descending into the Lower Thorpe North cutting approximately 660m long and up to 26m deep. This cutting will require a low height retaining wall, required to limit the extents of the cutting.
- 2.25 Permanent works along this section of route will include:
 - a replacement floodplain storage area to the west of the railway;
 - a balancing pond for railway drainage and associated access located between the dismantled railway and Banbury Lane;

- the Culworth Grounds accommodation overbridge that will provide farm access; and
- an habitat creation / ecological mitigation area located between the Culworth Grounds accommodation overbridge and the dismantled railway.

Edgcote Viaduct to Chipping Warden Green Tunnel

- 2.26 Travelling north the railway begins its approach to the Edgcote viaduct. The route passes onto the Culworth embankment for approximately 900m. At this point the Culworth Grounds accommodation overbridge will provide an online replacement of Bridleway AG9 and will feature planting to help integrate the structure into the landscape. A balancing pond for railway drainage with associated access will be located north of the accommodation overbridge and on the west side of the railway.
- 2.27 The provision of the Danes Moor auto-transformer station with associated access will be located approximately 700m south of Wardington Road on the east side of the railway.
- 2.28 The line will then enter into the Culworth cutting for approximately 250m before passing onto the Edgcote South embankment for the next 400m. There will be a realignment of bridleway AG10 across an overbridge with associated landscaping south of Wardington Road. The overbridge will

also serve a farm access and entry to a balancing pond on the west side of the railway.

2.29 From this point the line of route will pass onto the Edgcote viaduct, a key design element that will be approximately 600m long and up to 9m above ground level. The viaduct will carry the railway over Wardington Road and the River Cherwell and will feature 1.4m high protection barriers adjacent to the tracks on both sides.

2.30 This area will incorporate a variety of works to include:

- two replacement floodplain storage areas to the west of the railway;
- wetland and grassland habitat creation and connectivity sites around the viaduct to mitigate losses from Trafford Bridge Marsh Local Wildlife Site;
- a balancing pond for railway drainage and associated access slightly north east of the viaduct and in proximity to a replacement floodplain storage area; and
- a realignment of footpath AE5 north of the River Cherwell to pass under the western end of the viaduct.
- 2.31 The railway will then continue onto the Edgcote North embankment for approximately 150m before descending into the Edgcote cutting for the next 900m and up to Culworth Road. A revised access will be provided to Blackgrounds Farm

from Culworth Road to the north. It will be necessary to Stop Up Culworth Road on either side of the railway with a bridleway constructed to provide a right of way to the north of Culworth Road and over the Chipping Warden green tunnel.

2.32 A land drainage area, south of Culworth Road and east of the railway will be provided near to additional planting just north of Culworth Road to screen views for the nearby residential properties.

Chipping Warden Green Tunnel

- 2.33 The route will approach the Chipping Warden green tunnel, emerging again to the east of Highfurlong Brook. The south portal buildings and associated access arrangements will be located west of Culworth Road.
- 2.34 There will be additional reinstatement works over the tunnel to include:
 - realignment of the A₃61 Byfield Road (further information below);
 - reinstatement of footpaths AE20 and AE12;
 - a new bridleway to maintain connectivity along Culworth Road;

- reinstatement of footpath AA8, AE21, AE17 and disused airfield circular access track;
- reinstatement of Appletree Lane; and
- reinstatement of hedgerows along the length of the green tunnel.
- 2.35 The green tunnel north portal buildings and associated access arrangements will be located east of Highfurlong Brook. This area will feature landscape earthworks. Planting will also provide an ecological corridor for bats and other species across the railway to replace the section of a dismantled railway that is severed by HS2 to the west of Aston le Walls.
- 2.36 There will be two ecological mitigation areas, including pond and grassland creation located on both sides of the HS2 route and adjacent to the dismantled railway.

A361 Byfield Road (Chipping Warden Relief Road)

2.37 A permanent relief road will be constructed to the west of Chipping Warden. This is to divert construction traffic around rather than through the village. The approximately 1.3km realignment will be retained following construction to become a permanent relief road of Chipping Warden. Noise mitigation will be provided in the form of noise fence barriers along the east of the Chipping Warden relief road.

- 2.38 In addition, a permanent staggered T-junction with lighting will be provided at the junction of the A₃61 and Welsh Road, with priority for the A₃61. A land drainage area will be situated on the southern side of the A₃61, east of Welsh Road.
- 2.39 It is anticipated that the relief road will be constructed in two stages. Stage 1 would be completed early in the construction programme. This would extend from the A361 Byfield Road from a point just to the north of Hogg End, to a point north of Long Barrow but south of Stone House. The connection to the A361 at the northern point will be a temporary connection until Stage 2 is completed. Construction of Stage 2 will commence once the section of the Chipping Warden green tunnel, over which the relief road would be routed, has been constructed. Once Stage 2 is completed, the temporary connection to the A361 will be reconfigured to suit the permanent road layout.

Highfurlong Brook Viaduct to Lower Boddington

2.40 Emerging from the Chipping Warden green tunnel the line continues north onto the Aston le Walls embankment for approximately 600m before passing onto and over the Highfurlong Brook viaduct, approximately 150m long and up to 9m high. Noise barriers are proposed that will extend for approximately 800m along the east side of the railway from the north tunnel portal, over the viaduct and to slightly north of Highfurlong Brook. The Chipping Warden mid-point autotransformer station with associated access will be located approximately 300m south of Highfurlong Brook on the west side of the track.

- 2.41 A land drainage area north of Highfurlong Brook to the east of the HS2 route and a balancing pond north of Highfurlong Brook to the west of the HS2 route will be provided. A new access road will be provided off Claydon Road.
- 2.42 The railway will then travel onto the Highfurlong Brook embankment for approximately 500m from north of Highfurlong Brook to south of Claydon Road and west of Lower Boddington. Landscape earthworks will be provided on each side of the railway. A land drainage area and a replacement floodplain storage area located slightly north of Highfurlong Brook will be provided. A balancing pond for railway drainage and associated access will be located on the west side of the railway, again situated just north of Highfurlong Brook.

Lower Boddington Cutting to Wormleighton Maintenance Loops

2.43 The route continues north in the Lower Boddington cutting for approximately 600m before passing onto the Lower Boddington embankment for the next 1.2km. Within this section of route there will be a new online replacement overbridge at Claydon Road (also known as Hill Road) incorporating the diverted footpaths AC1 and AC2. Tree planting will be provided on the overbridge approaches along with a balancing pond for highway drainage south of Claydon Road and land drainage areas either side of Claydon Road to the east of the railway.

- 2.44 Landscape earthworks will be provided on both sides of the railway from Claydon Road to Cedars Farm. A replacement floodplain storage area will be situated to the east of railway and north of Lower Boddington and a land drainage area located to the west of the line, near Cedars House Farm.
- 2.45 There will be the provision of a permanent new private accommodation overbridge across the HS2 route within Cedars Farm. The accommodation overbridge will reduce disruption to farming operations.
- 2.46 Continuing slightly north further landscape earthworks and tree planting on both sides of the railway will be installed from north of Cedars Farm to Claydon Road (also known as Boddington Road). Additional replacement floodplain storage areas are located to the east of the railway and a land drainage area between Claydon Road and the sewage works.
- 2.47 The line now passes on the Boddington cutting for the next 1km which will take the route into Stratford-on-Avon District Council administrative boundary. It will be necessary to provide a realignment of Claydon Road (also known as Boddington Road), west of its current position, to the north of the railway to connect to Banbury Road.

- 2.48 The provision of maintenance loops located west of Claydon Road (also known as Boddington Road) will extend into the Stratford-on-Avon District Council administrative boundary. Access tracks to the adjacent railway maintenance loop will be provided at Claydon Road (also known as Boddington Road) to the east and west of the railway and two balancing ponds will also be located either side of the railway.
- 2.49 Highway works are required in the area with the Banbury Road overbridge (Boddington) providing an offline replacement for Banbury Road between Claydon Road (also known as Boddington Road) and Stoneton Lane. There will be the provision of an access road to Hill Farm from the upgraded Warwick Road and connection from Banbury Road to the Stoneton Lane green overbridge.

Preparatory and Temporary Works

- 2.50 Building and preparing the railway for operation will comprise the following general stages:
 - advance works, including: site investigations; site surveys; preliminary mitigation works; preliminary enabling works;
 - diverting utilities;
 - civil engineering works, including: establishment of construction compounds;

- site preparation and enabling works including demolition, site clearance; main earthworks and structural works;
- railway installation works, including: infrastructure installation; connections to utilities; and changes to the existing rail network;
- site restoration; and
- system testing and commissioning.

Primary Utility Works

- 2.51 Numerous utilities will need to be diverted for the works.
 Within the District the principal diversionary works will be the 132kV Western Power overhead lines (including towers) to be re-aligned at Turweston and west of the HS2 line.
- 2.52 Additionally, there will be a number of utilities to be moved as part of the new bridges and road re-alignments, as well as a number of more rural utilities networks that will require moving due to the new HS2 route. Many of these will be buried under the new HS2 lines or incorporated into new bridges to be built.

Worksites and Compounds

2.53 Contruction of the HS2 route will require engineering works along the entire length of the route, and within land adjacent to the route. This will comprise two broad types of activity:

- civil engineering works, such as earthworks and erection of bridges and viaducts; and/or
- railway installation works, such as laying ballast or slabs and tracks, and/or installing power supply and communications features.
- 2.54 Construction will be subdivided into sections, each of which will be managed from compounds. The compounds will act as the main interface between the construction work sites and the public highway, as well as performing certain other functions. Compounds will either be main compounds or satellite compounds, which are generally smaller. Some compounds will be used for civil engineering works and others for railway installation works, and in some cases for both.
- 2.55 The principal activity to be carried out from each of the compounds is shown in the table below.

Table 2: Construction compounds and activities

Compound	Principal activities
Brackley south cutting Main Compound (north of A43 Oxford Road)	For works associated with the Turweston viaduct, adjacent embankments, Brackley south cutting and the A43 Oxford Road realignment and overbridge. After the civil engineering works are completed, this compound will reduce in size to form the Whitfield auto-transformer station satellite compound for the railway

Compound	Principal activities
	systems installation
Brackley south cutting workers temporary accommodation (north of	Temporary worker accommodation for between 105 to 200 people for an estimated period of four and a half
A43 Oxford Road)	years
Radstone Road overbridge Satellite Compound (north-west of Helmdon	For works associated with the Greatworth south cutting
Disused Railway SSSI)	
Greatworth green tunnel Satellite	For works associated with the
Compound (north of Greatworth Hall)	Greatworth green tunnel
Greatworth green tunnel Satellite Compound (North Portal) (adjacent to Sulgrave Road)	For railway systems installation works following main civils works
Thorpe Mandeville cutting Satellite Compound (north of Culworth Brook/Banbury Road)	For works associated with the Thorpe Mandeville cutting and Banbury Road overbridge
Lower Thorpe viaduct Satellite Compound (east of Thorpe Mandeville and north of Banbury Lane)	For works associated with Lower Thorpe viaduct and adjacent earthworks
Culworth cutting Satellite Compound (south of River Cherwell and west of Welsh Road)	For works associated with Edgcote viaduct and adjacent earthworks
Danes Moor auto-transformer station	For railway systems installation works
Satellite Compound (west of Welsh Road)	following main civils works
Chipping Warden green tunnel Main	For works associated with the Chipping
Compound (accessed via the A ₃ 61	Warden green tunnel between Thorpe Mandeville and Lower Boddington

Compound	Principal activities
Byfield Road)	
Chipping Warden green tunnel workers temporary accommodation (accessed via the A361 Byfield Road)	Temporary worker accommodation for between 110 and 165 people for an estimated period of approximately five years
Chipping Warden green tunnel south portal Satellite Compound (adjacent to Culworth Road)	For railway systems installation works following main civils works
Chipping Warden tunnel north portal Satellite Compound (north of Appletree Lane)	For railway systems installation works following main civils works
Claydon Road overbridge Satellite Compound (west of Lower Boddington)	For works associated with Highfurlong Brook viaduct and adjacent earthworks
Banbury Road green overbridge Satellite Compound (south-west of Warwick Road)	For works associated with Lower Boddington open section and cutting

Roadheads and Material Transfer Areas

2.56 Roadheads will be used for the storage, loading and unloading of bulk earthworks material which is moved to and from the site on public highways. Roadheads will be operational for the duration of the civil engineering works. In the District the following roadheads will be utilised:

- Helmdon Road, Greatworth [RH-102]
- Land between Banbury Road and Sulgrave Road, Thorpe Mandeville; [RH-104]
- Land adjacent to the A₃61 Byfield Road, Chipping Warden[RH-110]
- Hill Road, Lower Boddington [RH-113]
- Boddington Road, Upper Boddington [RH-115]
- 2.57 Additional temporary material stockpile sites may be required during work on particular elements of the railway in multiple locations along the route. These sites will be adjacent to the works within the existing area of land required for construction.

Demolition Works

2.58 The buildings that will need to be demolished within the District are listed below.

Table 3: Demolition Works

lletts Farm	Farmstead at lletts Farm incorporating lletts Courtyard holiday accommodation
Greatworth Park	Greatworth Park (industrial/business site) Triple Eight Race Engineering Ltd & David Appleby Engineering (two commercial units) at Greatworth Park
Dean Barn	Commercial property (one building and one outbuilding at Dean Barn near Sulgrave Road

Twin Oaks	Residential property (Twin Oaks and two associated outbuildings) at Banbury Lane
Grade II listed	Residential property (Lower Thorpe Farmhouse (and two associated outbuildings) at Banbury Lane
Lower Thorpe	associated ootbolidings) at Danbory Lane
Farm	
Blackgrounds	Commercial property (two barns at Blackgrounds Farm) at
Farm	Culworth Road
Calves Close	Residential property (The Bungalow) and associated
	commercial buildings at Calves Close
Stone House	Residential property (Stone House plus one outbuilding) on A361 Byfield Road
Old House Farm	Commercial property (outbuilding associated with Old
	House Farm) at Claydon Road (also known as
	Boddington Road)
Fir Tree Nursery	Fir Tree Nursery, including three greenhouses and one
	barn) at Banbury Road
Spella Field	Spella Field, including three farm outbuildings and manége)
	at Claydon Road (also known as Boddington Road)

Archaeology

- 2.59 HS2 Ltd has sought to design the railway and to approach the task of construction in ways that reduce the impact on archaeological remains, as far as is reasonably practicable.
- 2.60 In accordance with the requirements of Heritage Memorandum and Code of Construction Practice, the nominated undertaker will develop an integrated investigation programme to deliver all archaeological works identified in the ES and as developed during the detailed design process. The

programme will set out the key stages of investigation, for example:

- detailed desk-based assessment (where appropriate to inform location specific mitigation);
- field evaluation (where appropriate to inform location specific mitigation); and
- location specific mitigation (for example preservation in situ or archaeological excavation).
- 2.61 The investigation programme will be developed in light of, and in conjunction with, the overall construction programme and will be reviewed and updated, as necessary. The programme will aim to undertake as much of the work as possible in advance of any construction activities.

Geotechnical Investigations

2.62 Geological investigations and intrusive site investigations (involving boreholes and trial pits) will be undertaken where necessary, to inform the detailed design.

3 Landscape and Restoration

Different landscape types will be incorporated into HS2 works at various stages of the project. Some early landscape works may be proposed – for example new planting to compensate for the loss of prior habitat or to help integrate HS2 into the surrounding landscape. Planting and landscape techniques will be used for different purposes – for example to visually screen the railway, new structures or to reduce railway noise. Where possible, screen planting will be incorporated into the design along new embankments or cuttings in order to provide a combination of landscape integration, visual screening, and or ecological habitat connectivity.

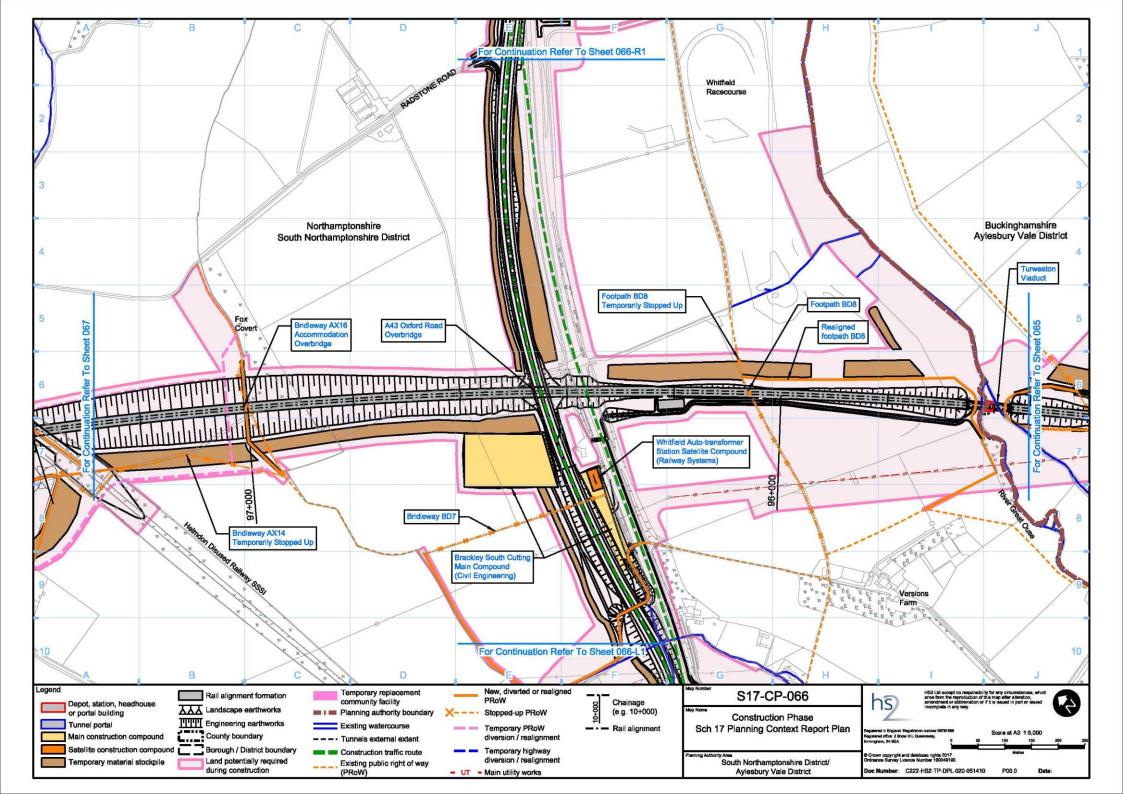
- 3.2 New areas of woodland will be created along the route. This includes woodland to compensate for the loss of habitat and new planting to help integrate HS2 into the surrounding landscape. Certain areas of grassland will be created specifically to compensate for habitat loss resulting from the scheme.
- 3.3 Upon completion of construction works, land that is not required for operation of the railway will be restored. At this early stage of the design of the project, the presumption is that land would be restored as far as possible to its pre-existing condition. This will include reinstatement of field boundaries and hedgerows where possible. Hedgerows will be used to replace existing hedgerows removed during construction, to mitigate the impacts on wildlife or to create new visual screens. Any new planting, grassland and habitat creation will be maintained to ensure they become established and are properly maintained.

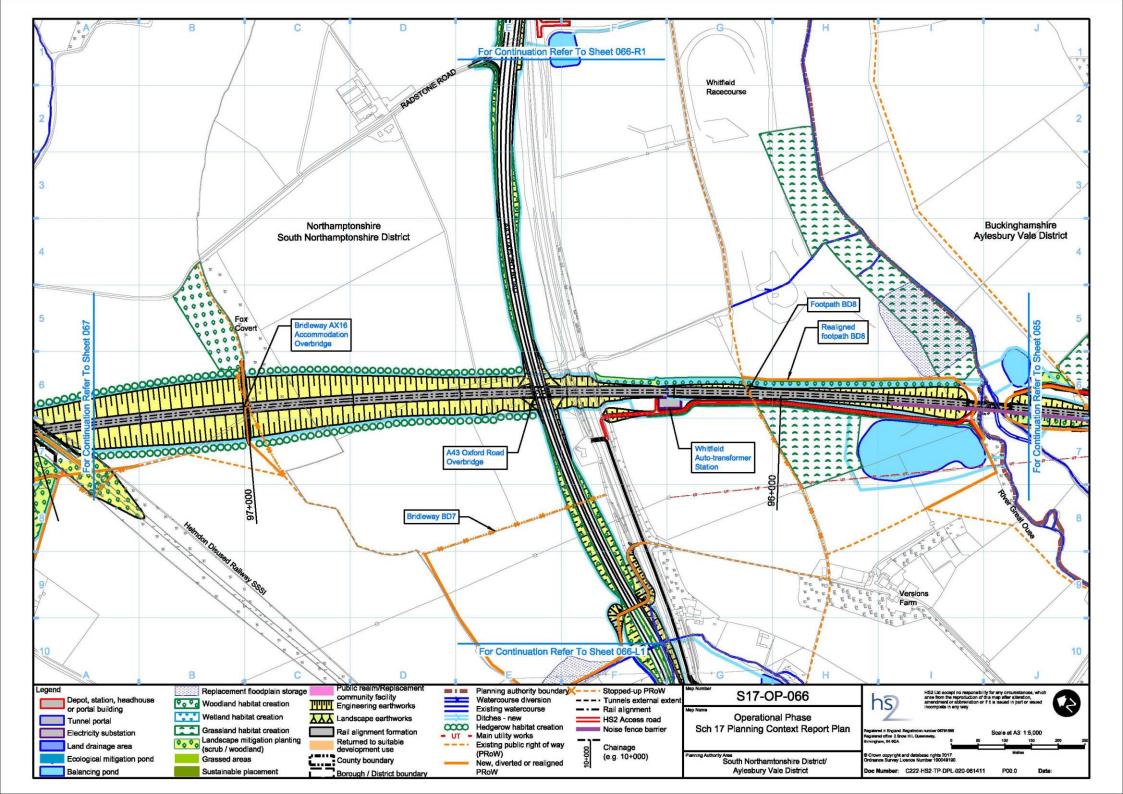
4 Schedule 17 Requests for Approval – Programme

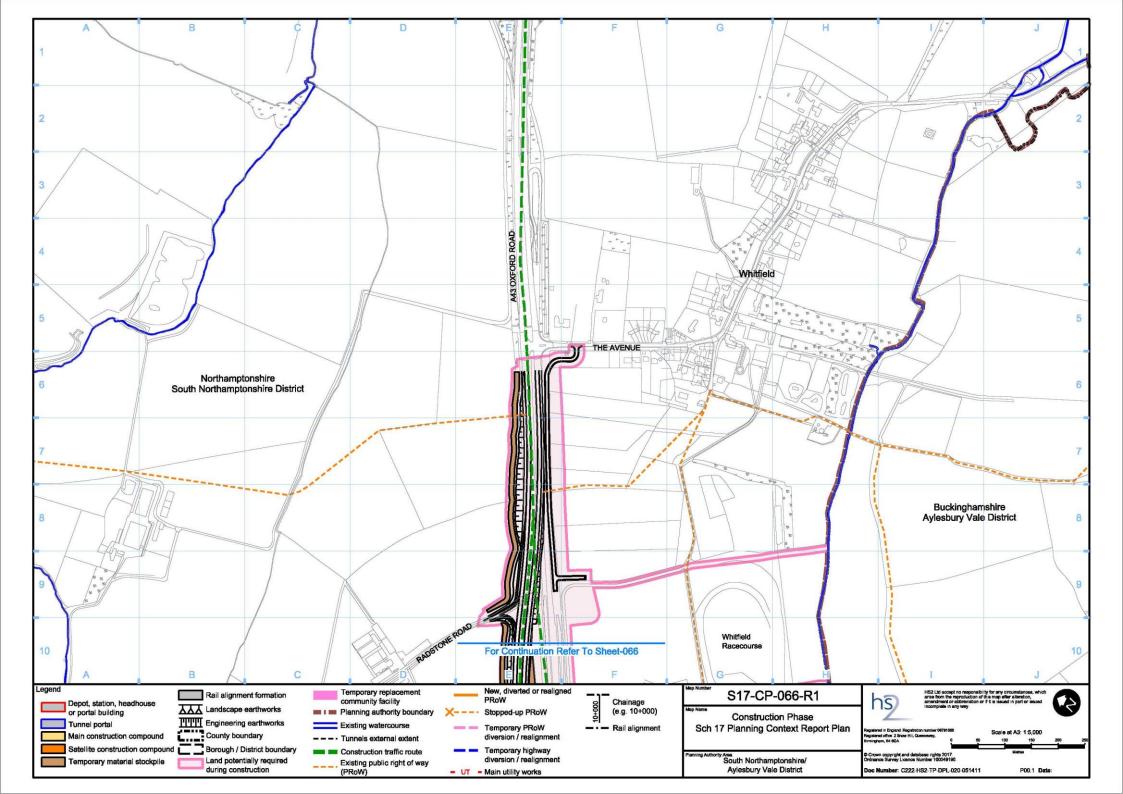
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Radstone Road overbridge (Radstone)																																										
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Greatworth Green Tunnel Portal (Greatworth)																																										
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Sulgrave Road reinstatement (Thorpe Mandeville)																																										
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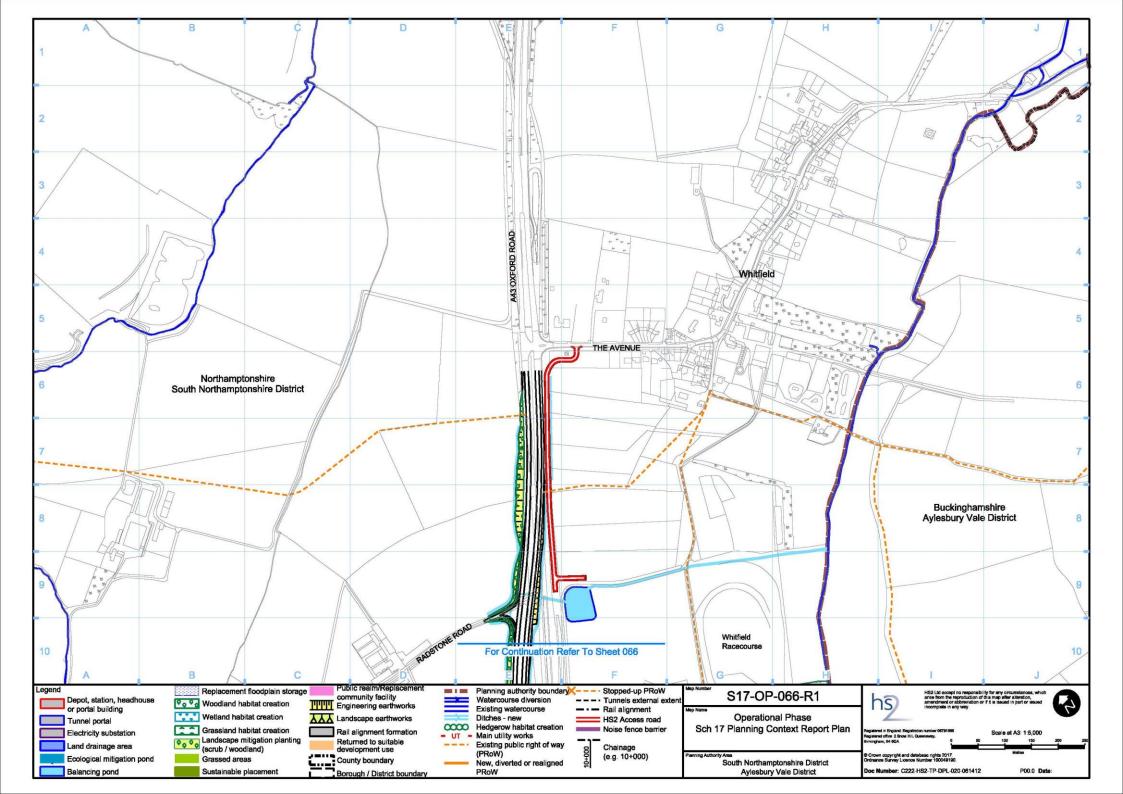
Chipping Warden Relief Road (Chipping Warden)																				
A361 Byfield Road / Welsh Road Junction (Chipping Warden)																				
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Highfurlong Brook viaduct																				
Claydon road overbridge (Lower Boddington)																				
Banbury Road overbridge (Boddington)																				
BIU for railway works																				
Lorry route submissions																				
Class Approval Construction camps (if any)																				

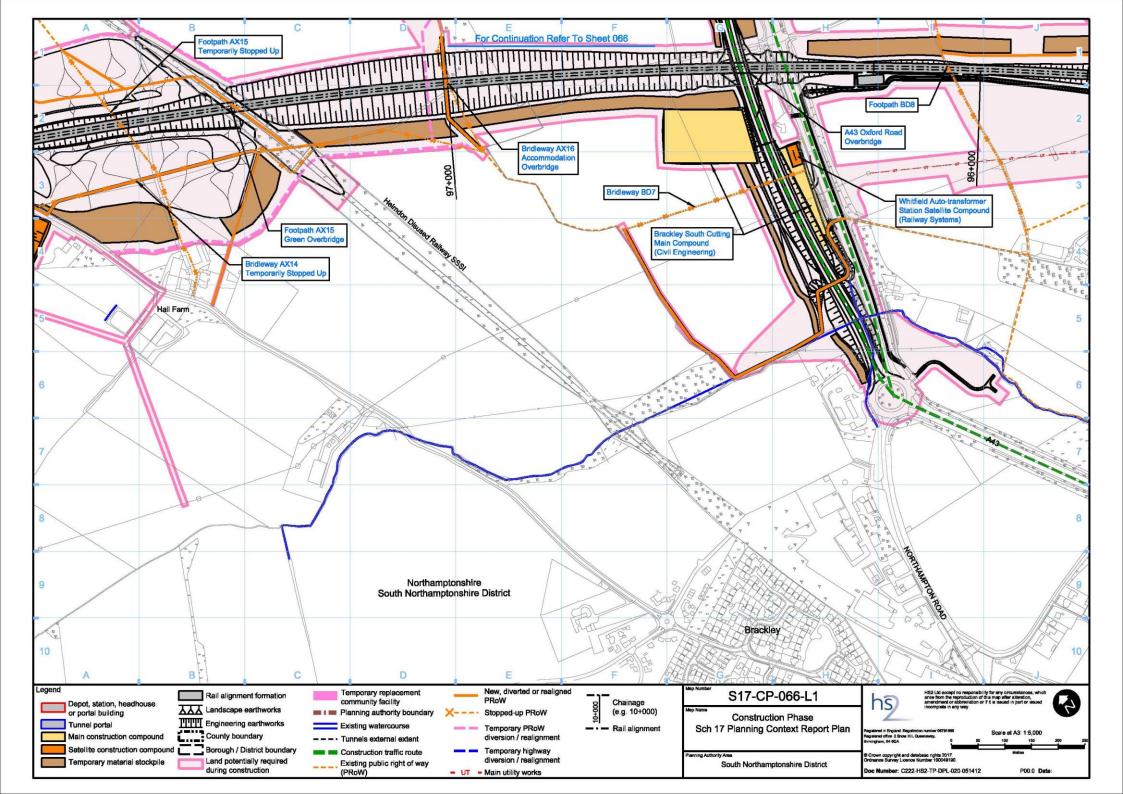
5 Planning Context Report Plans – Construction and Operation

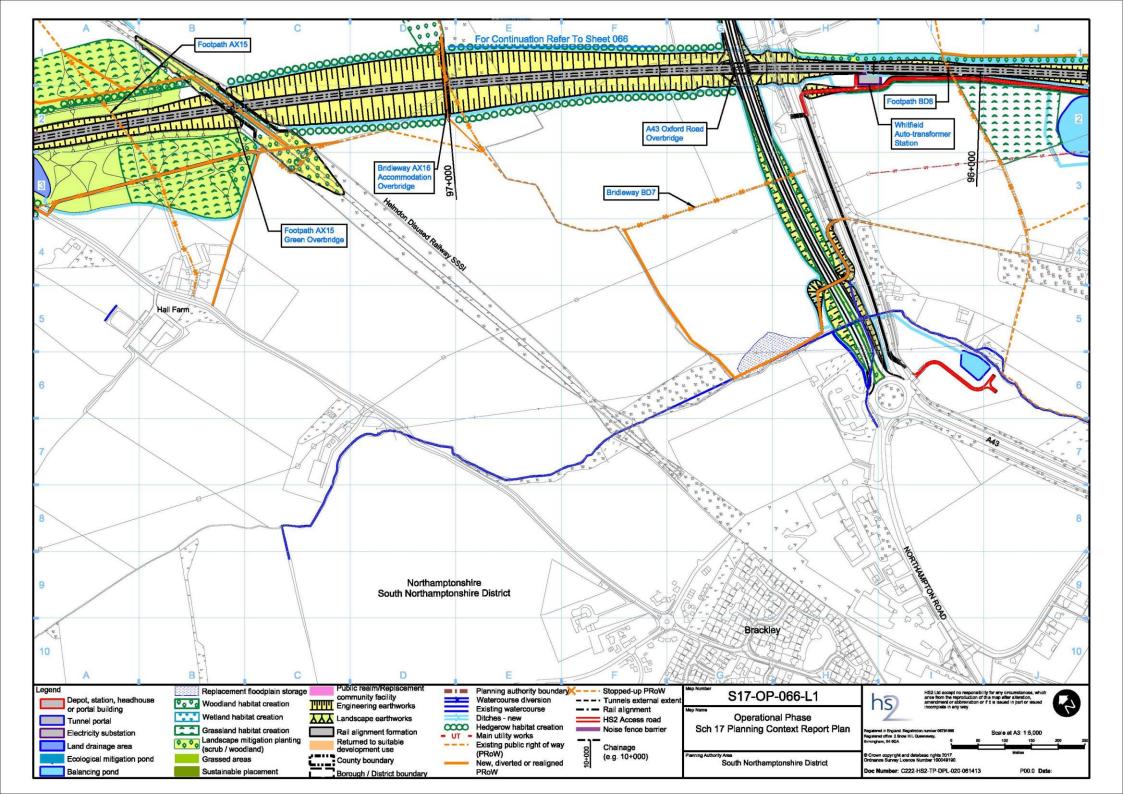


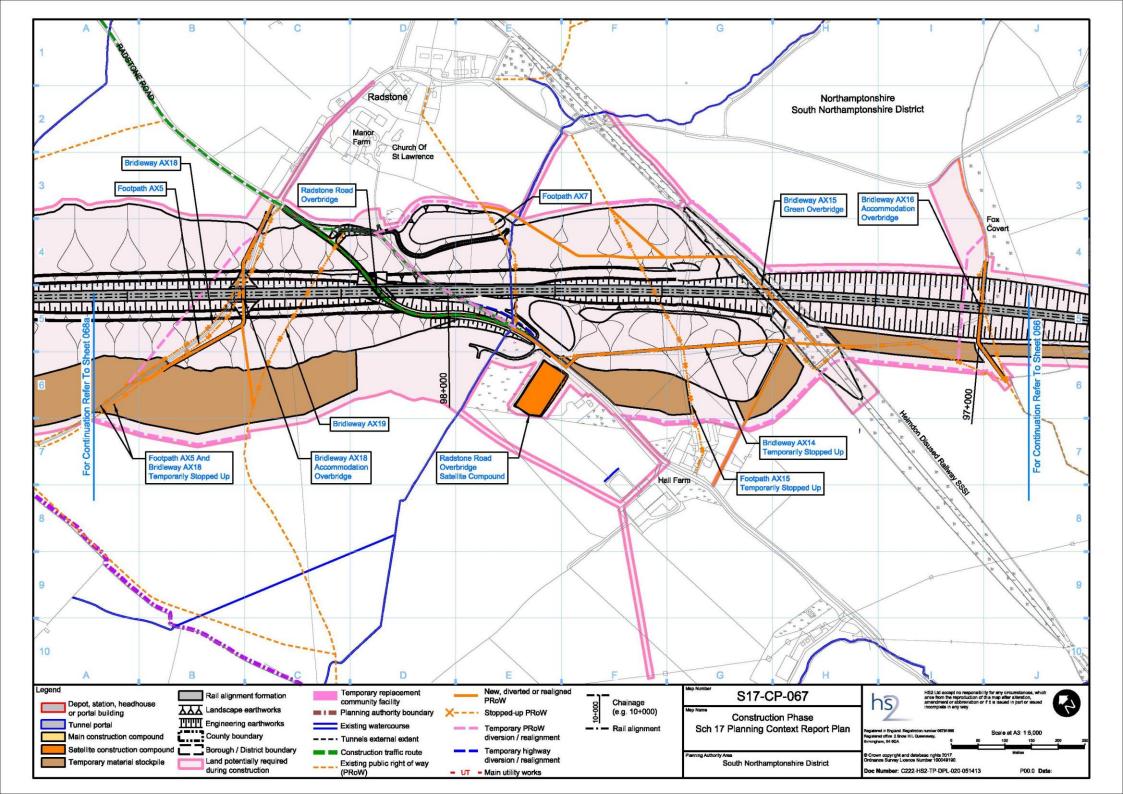


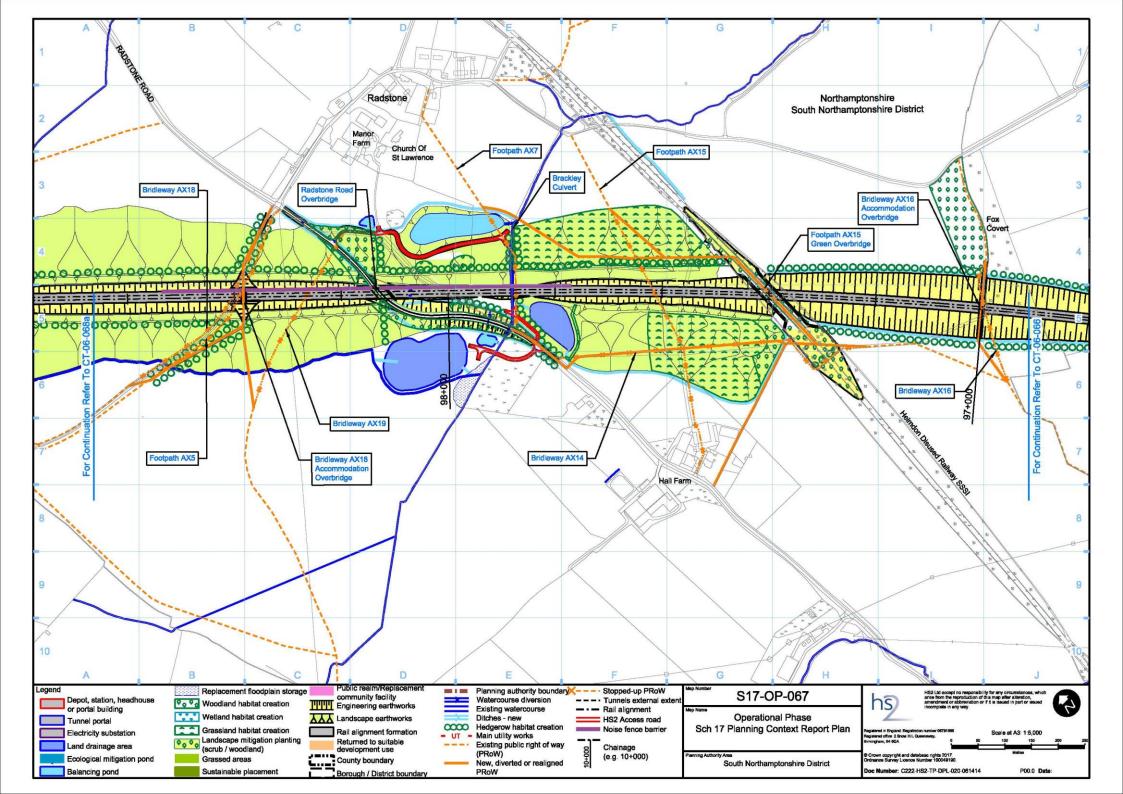


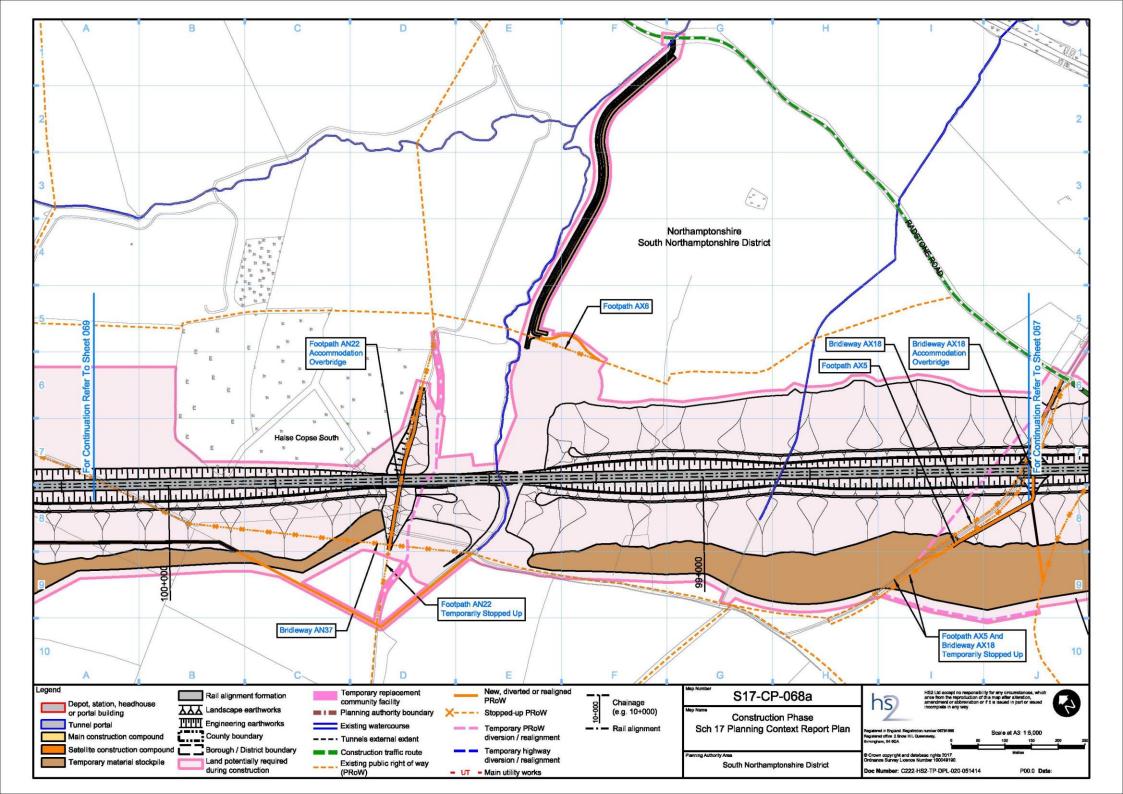


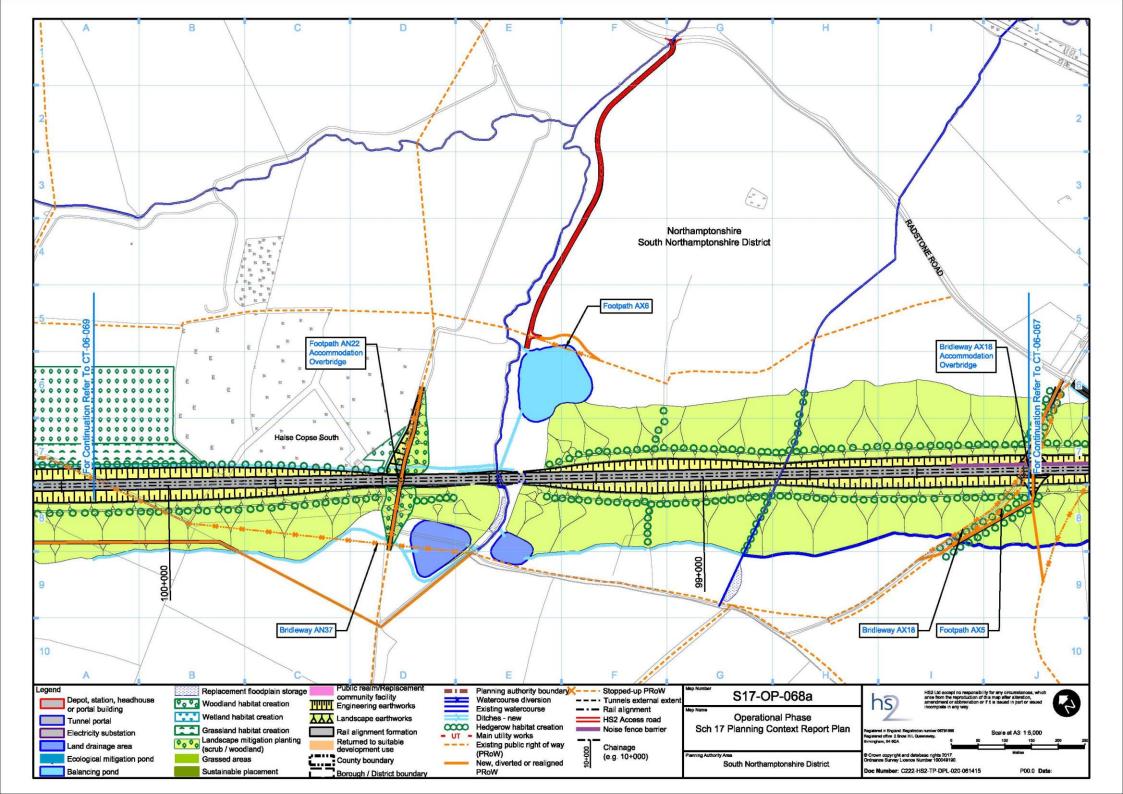


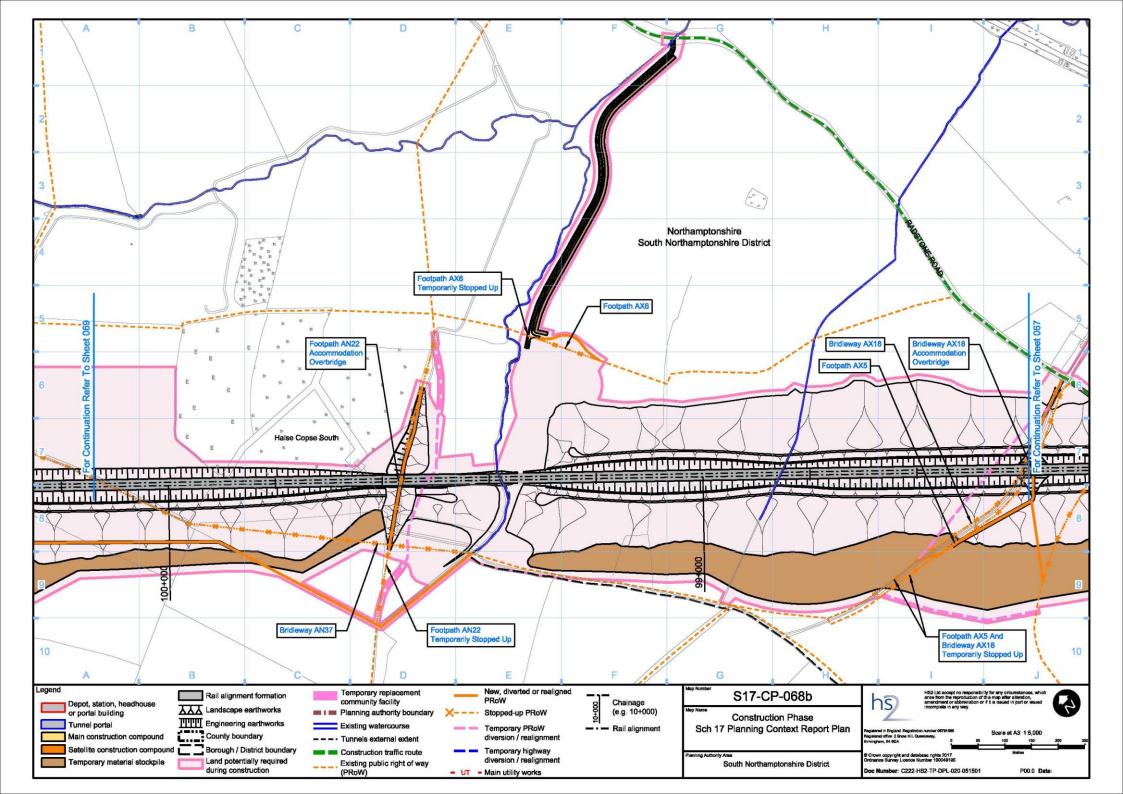


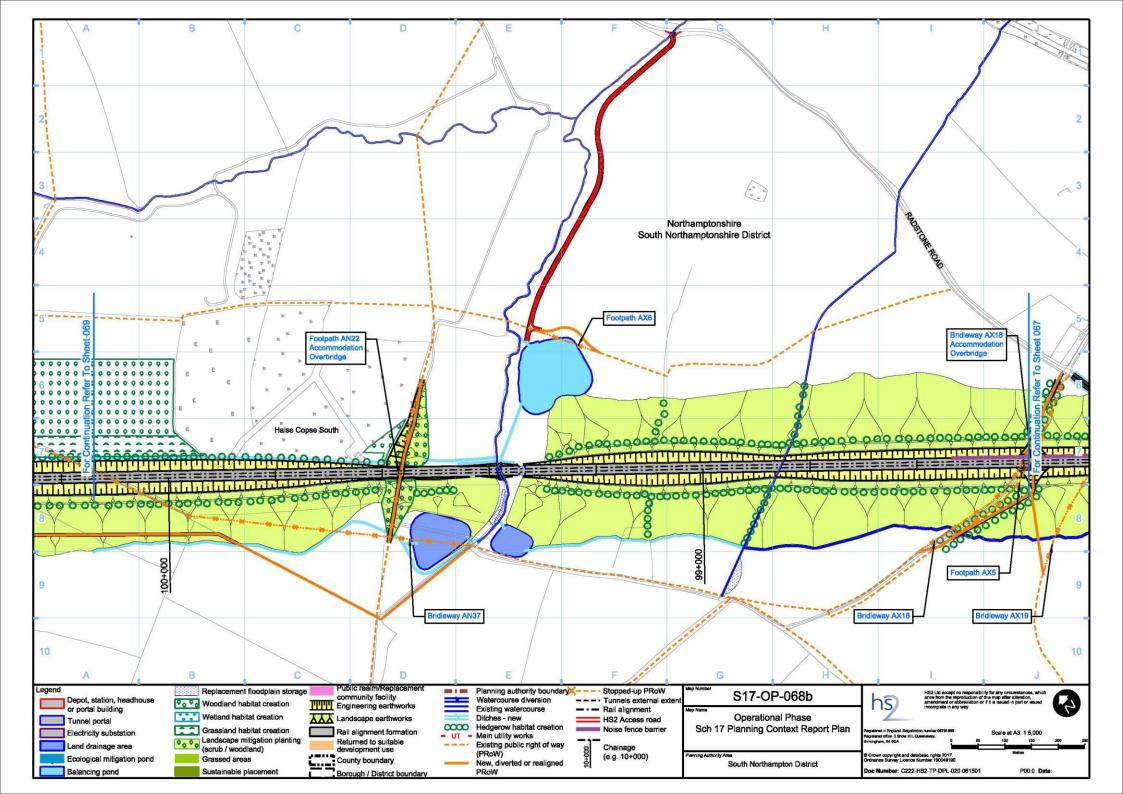


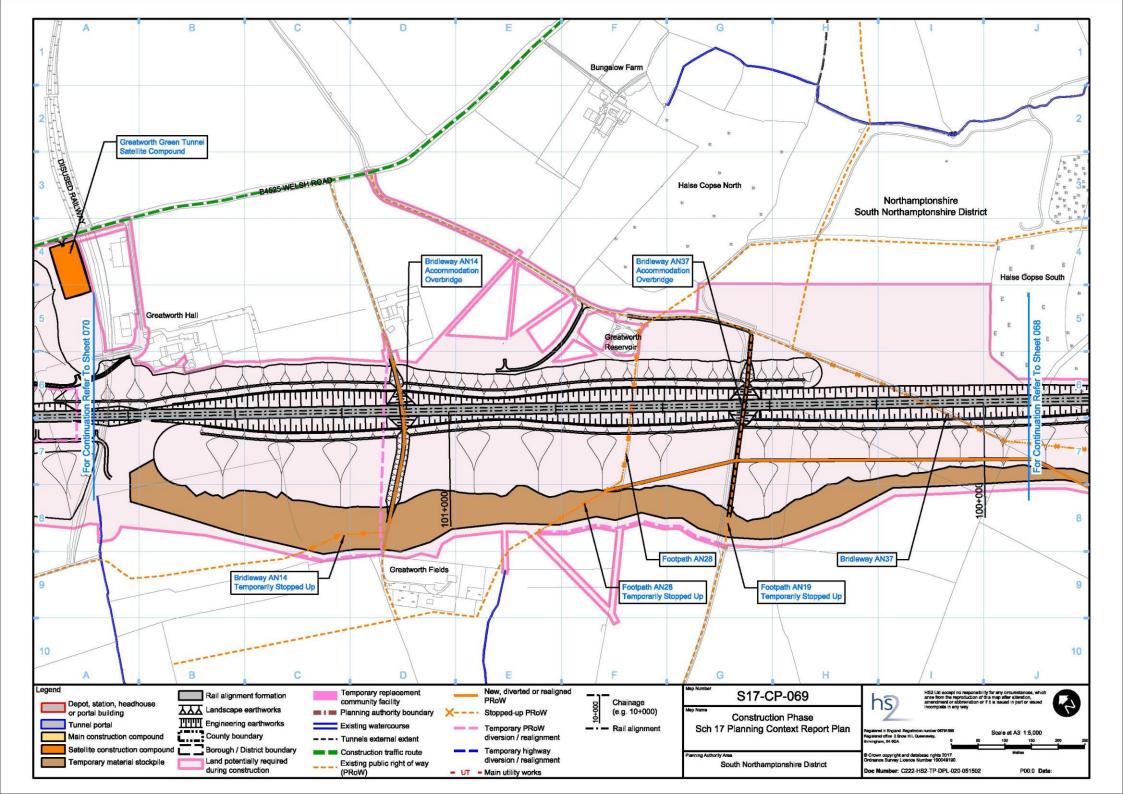


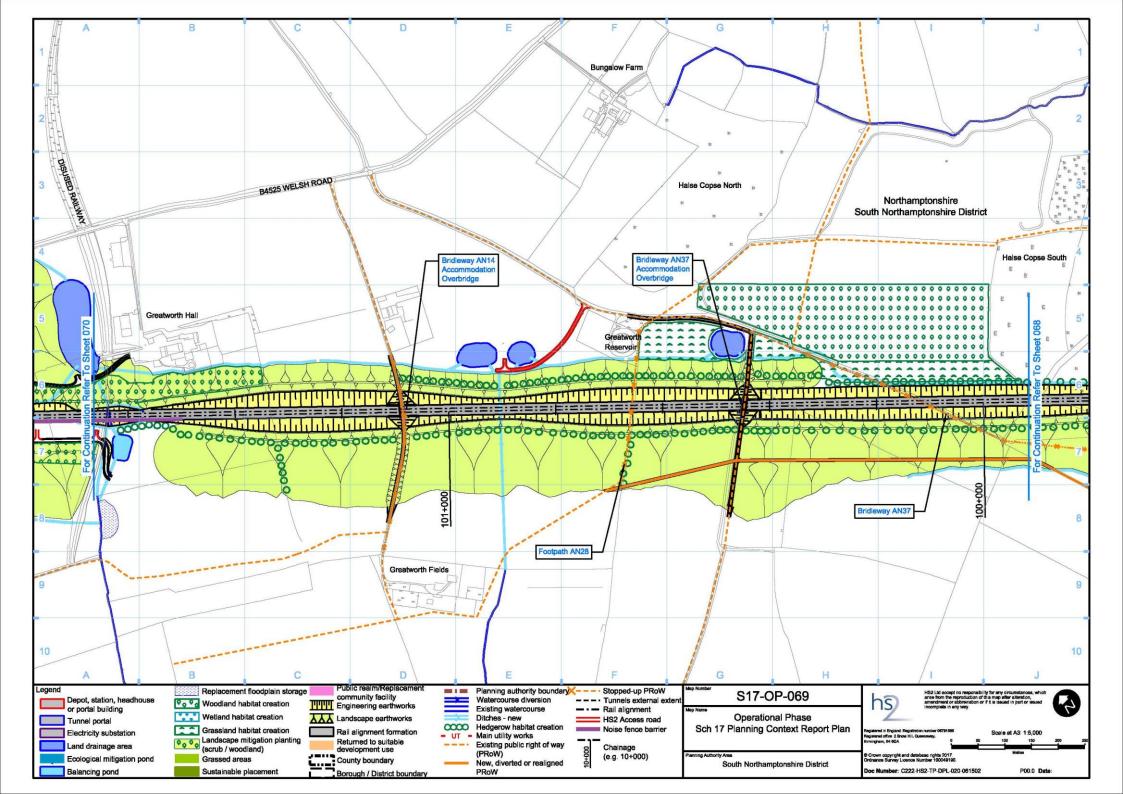


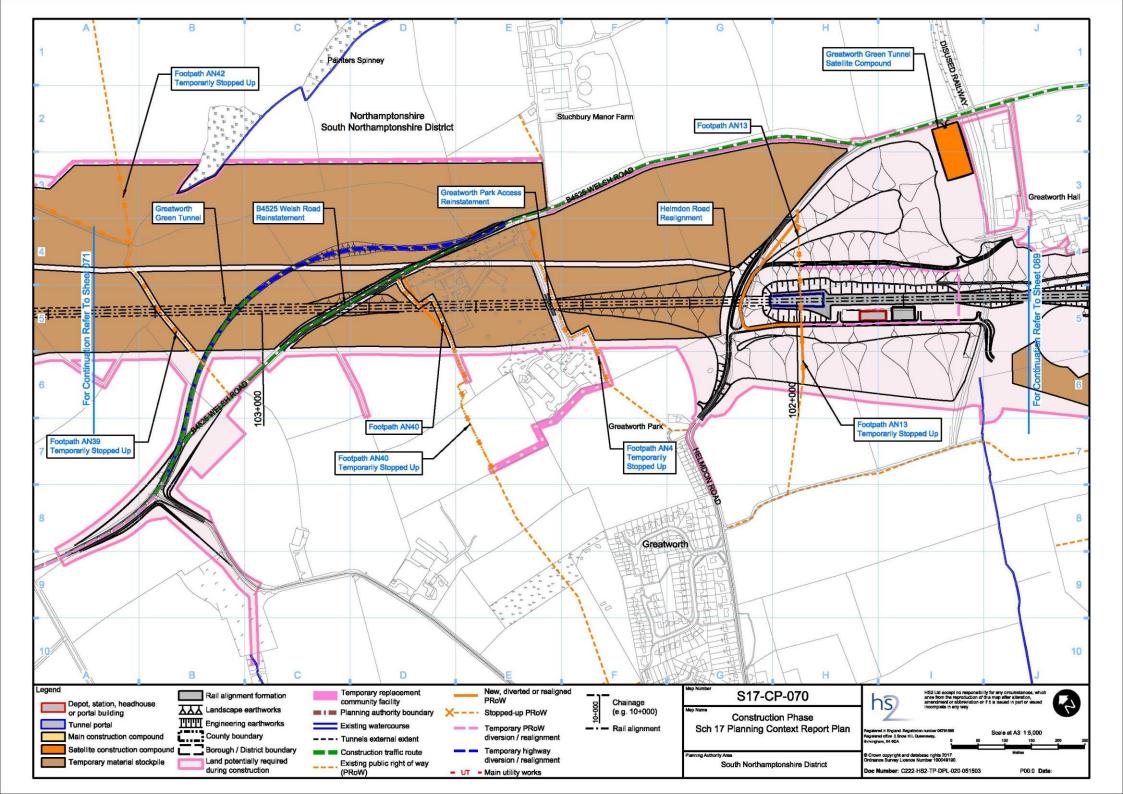


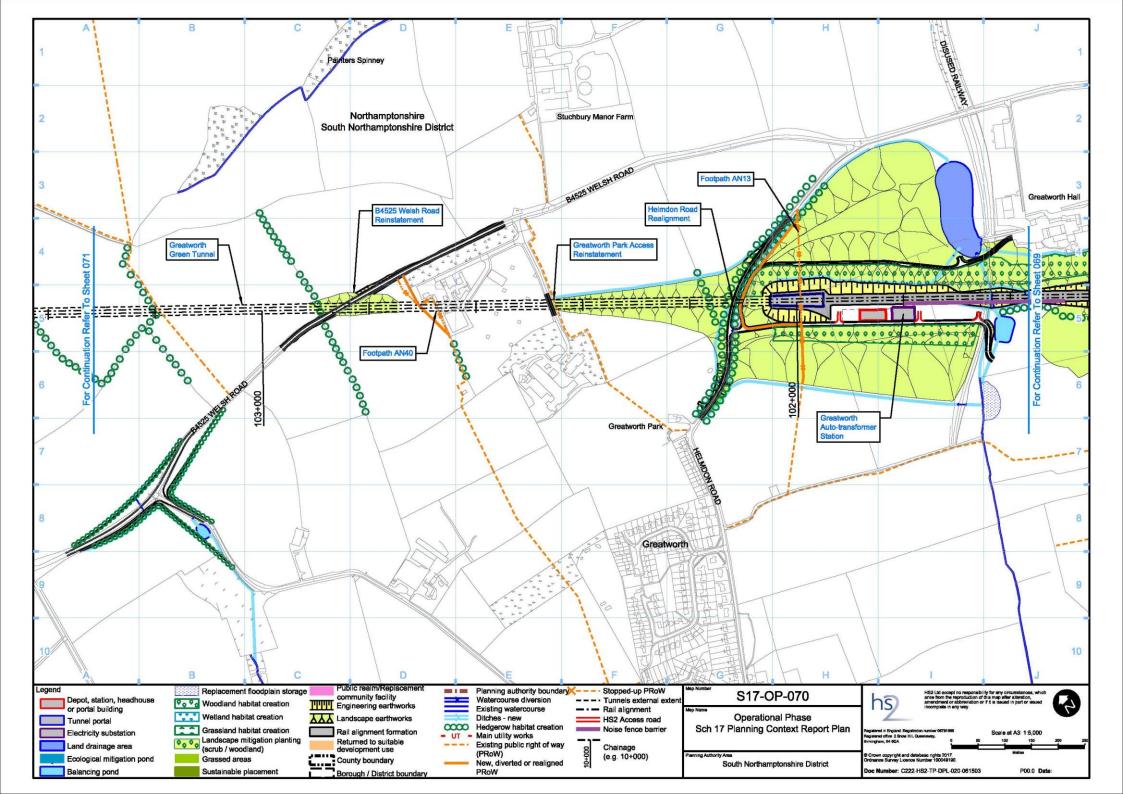


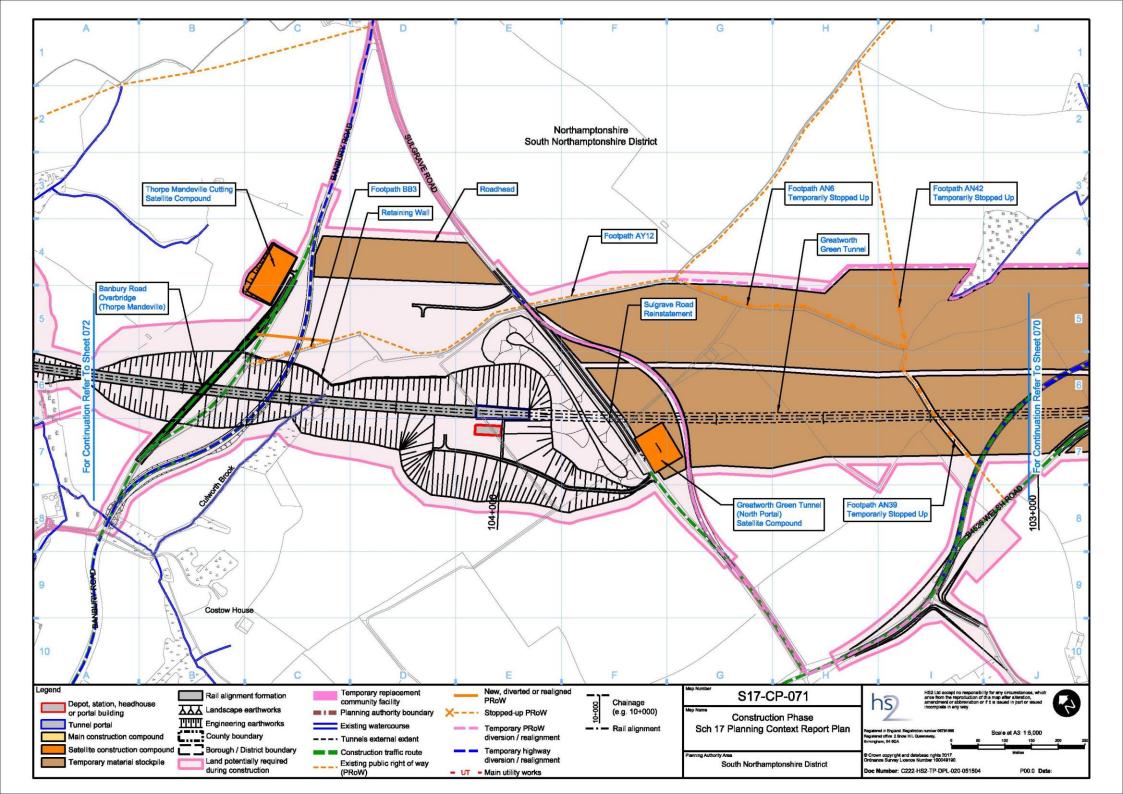


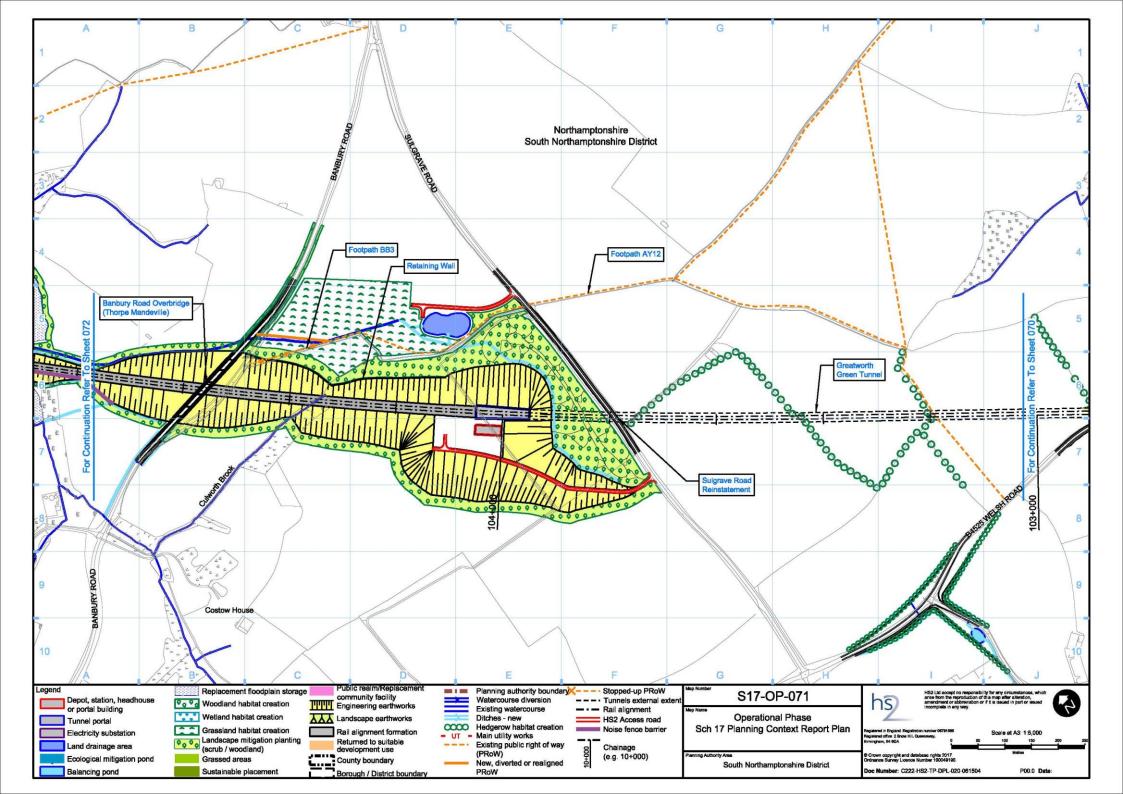


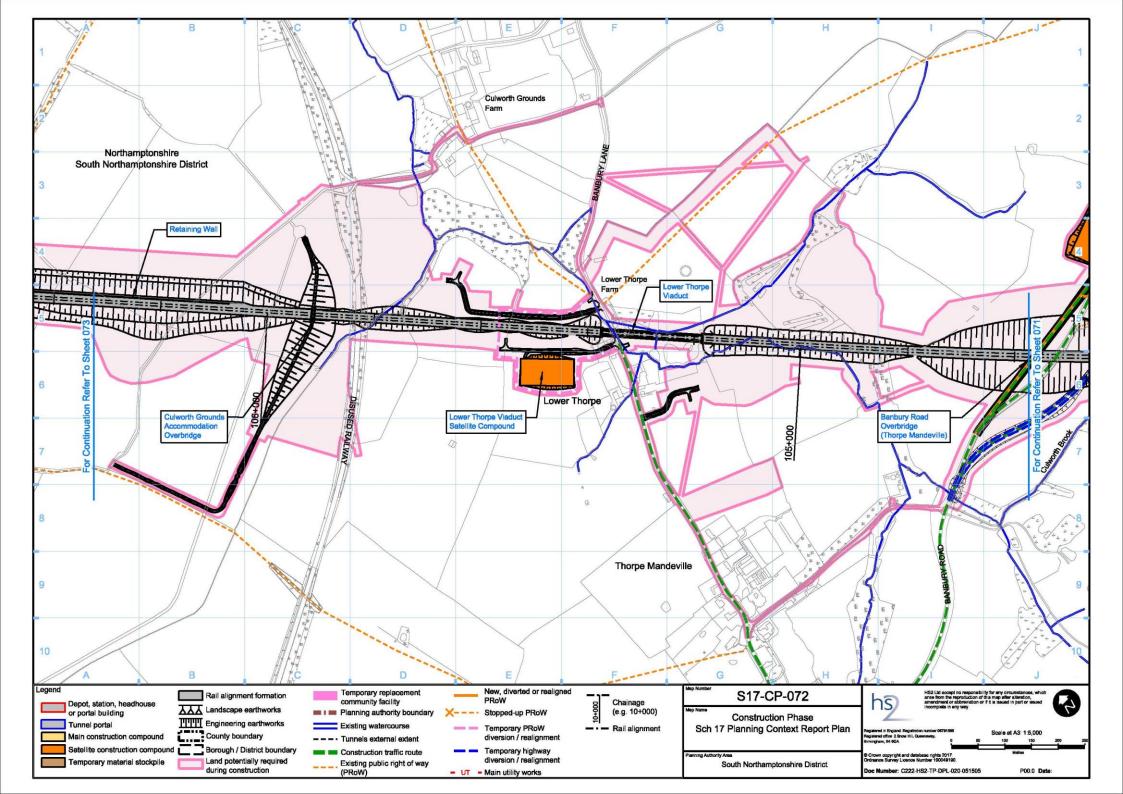


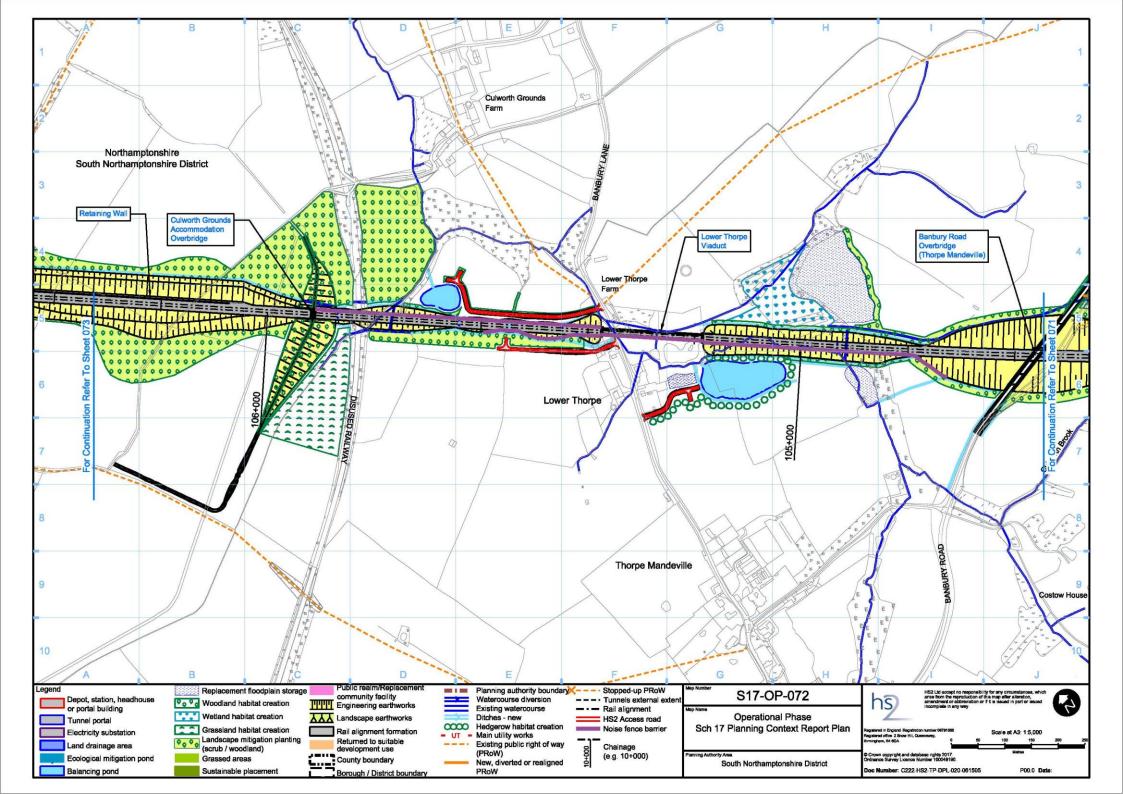


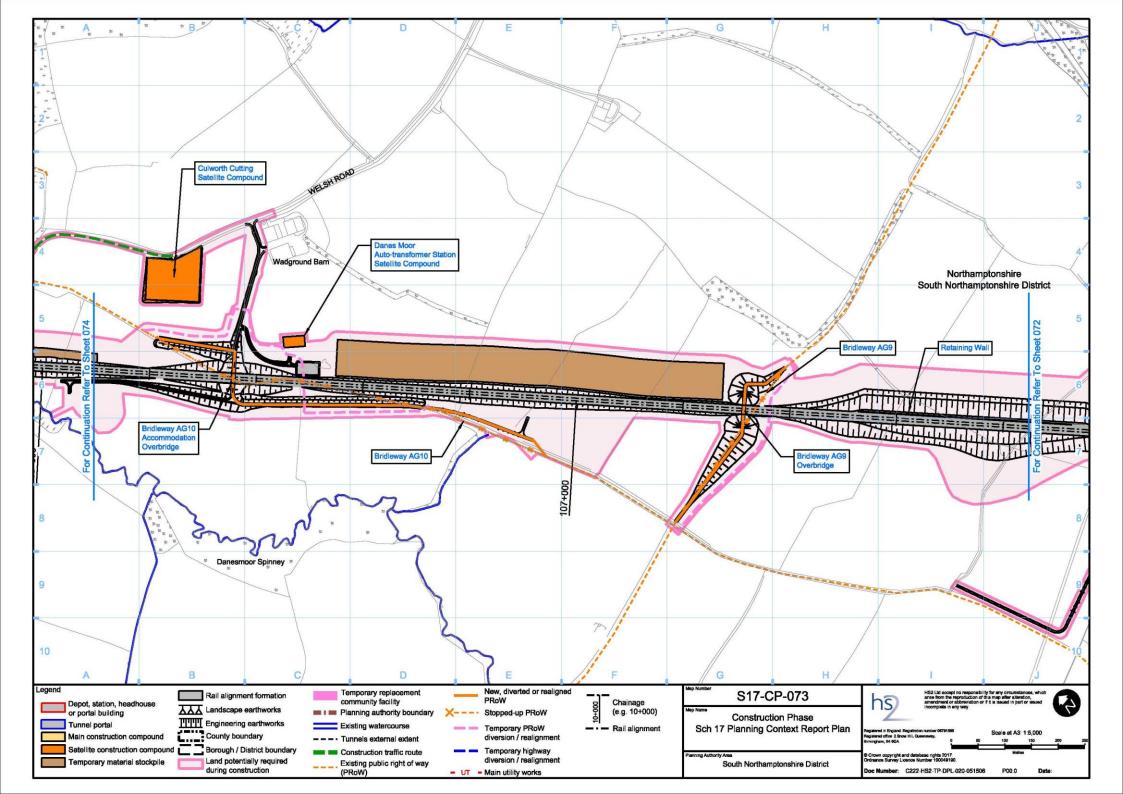


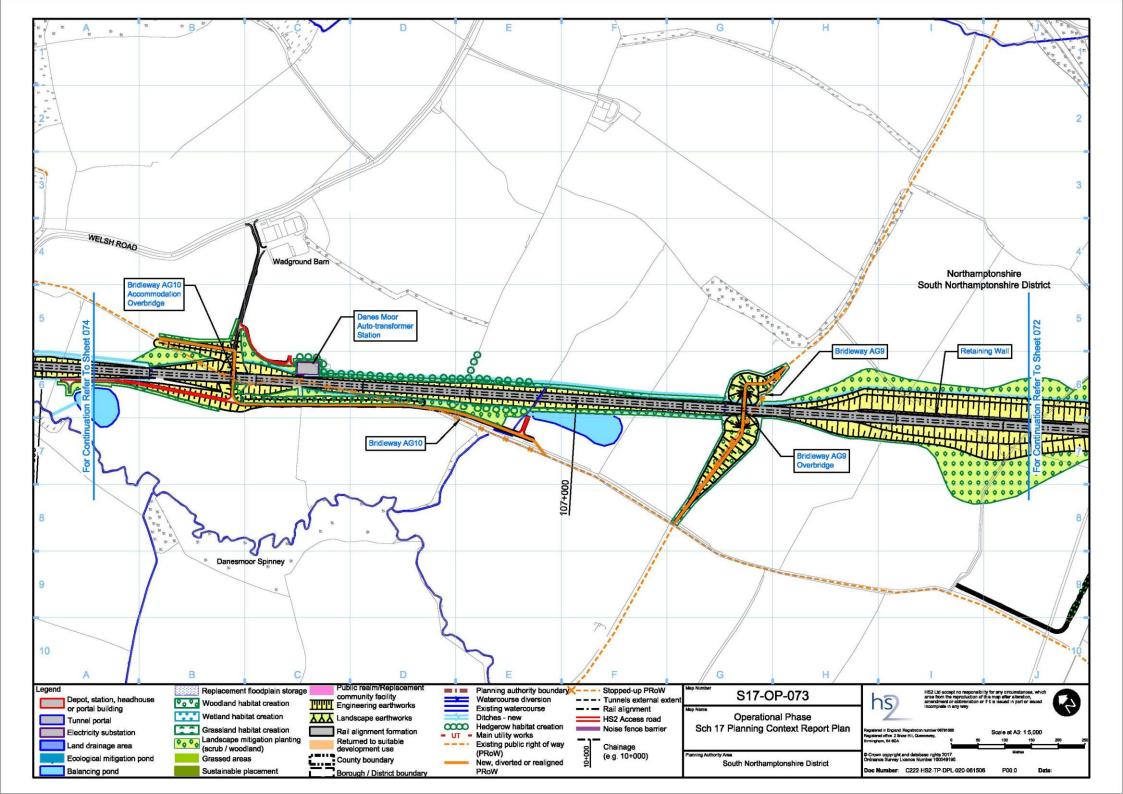


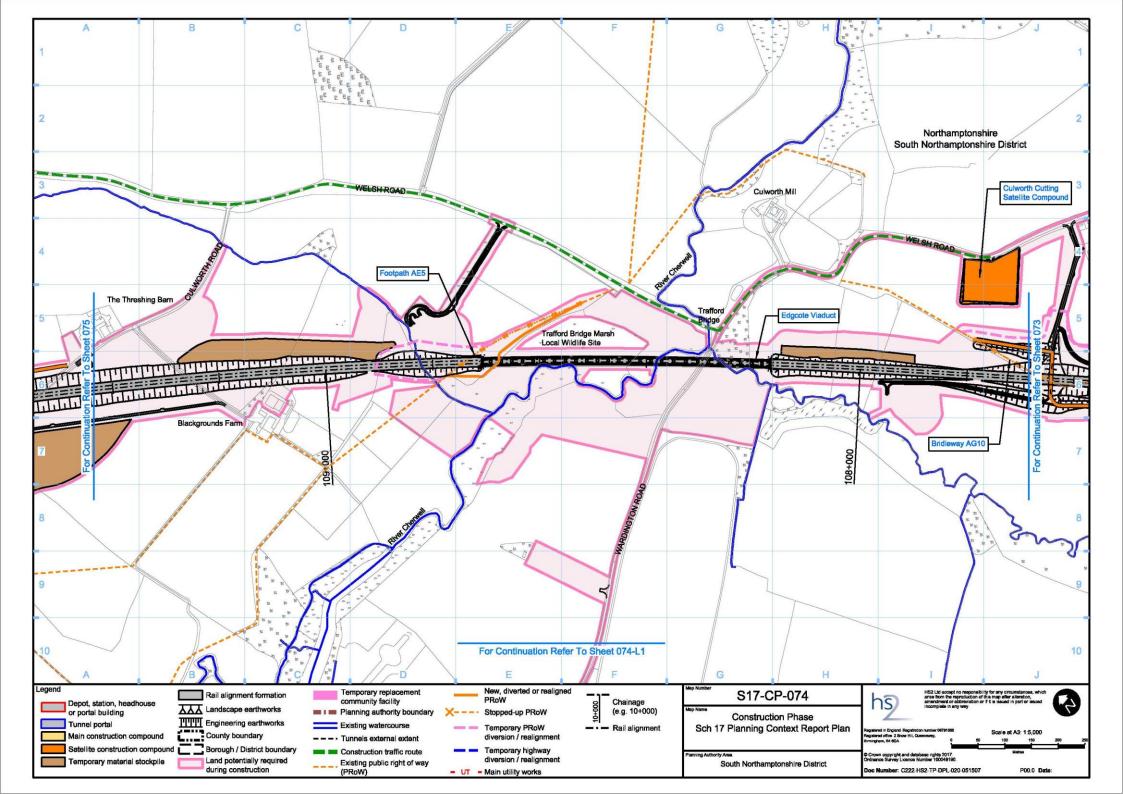


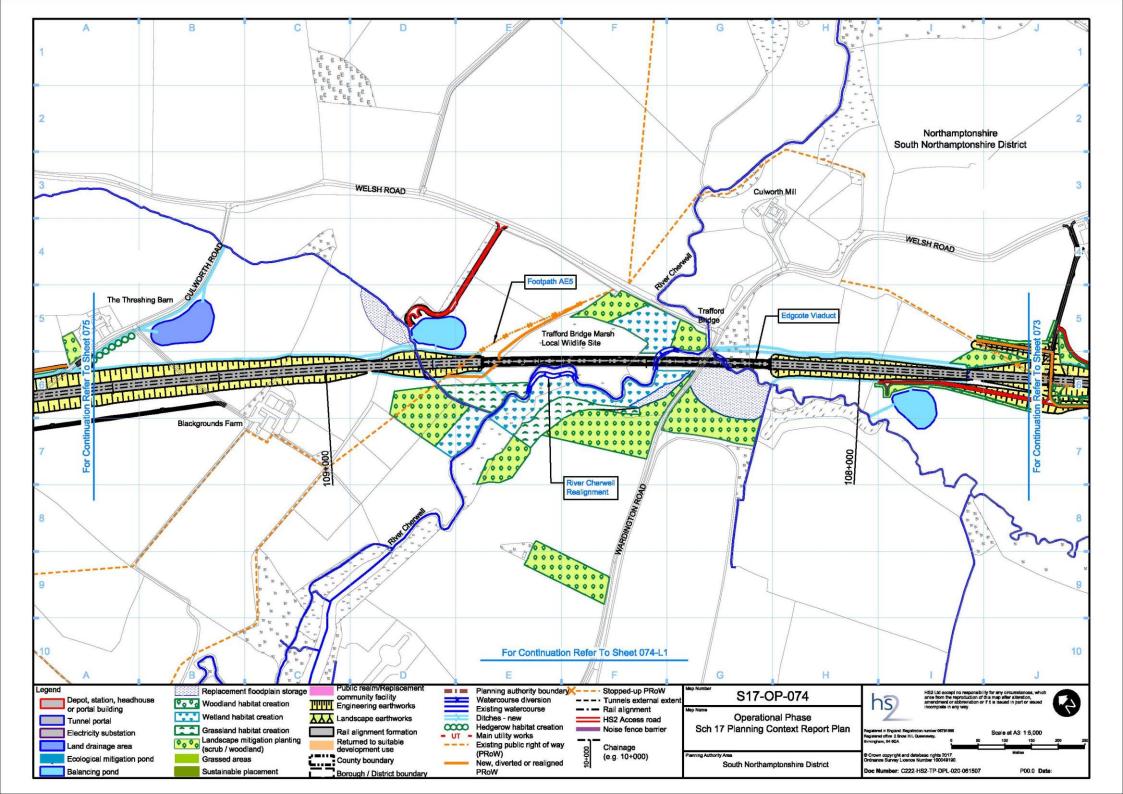


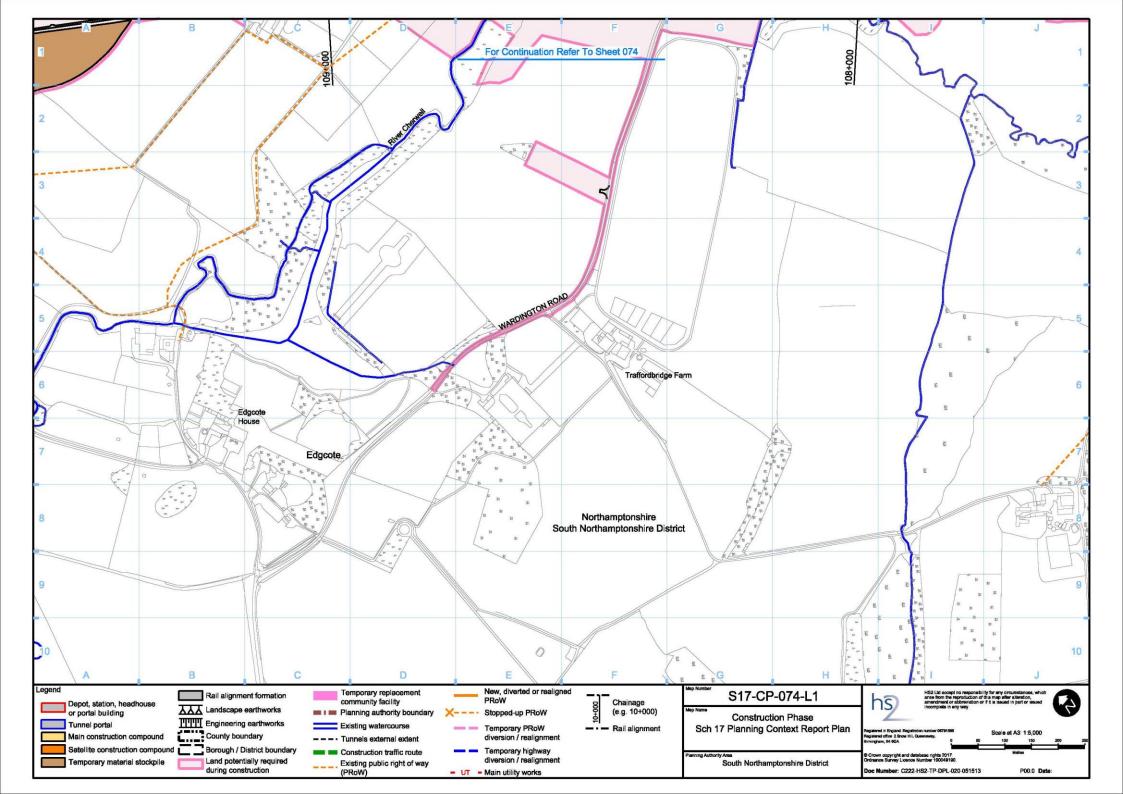


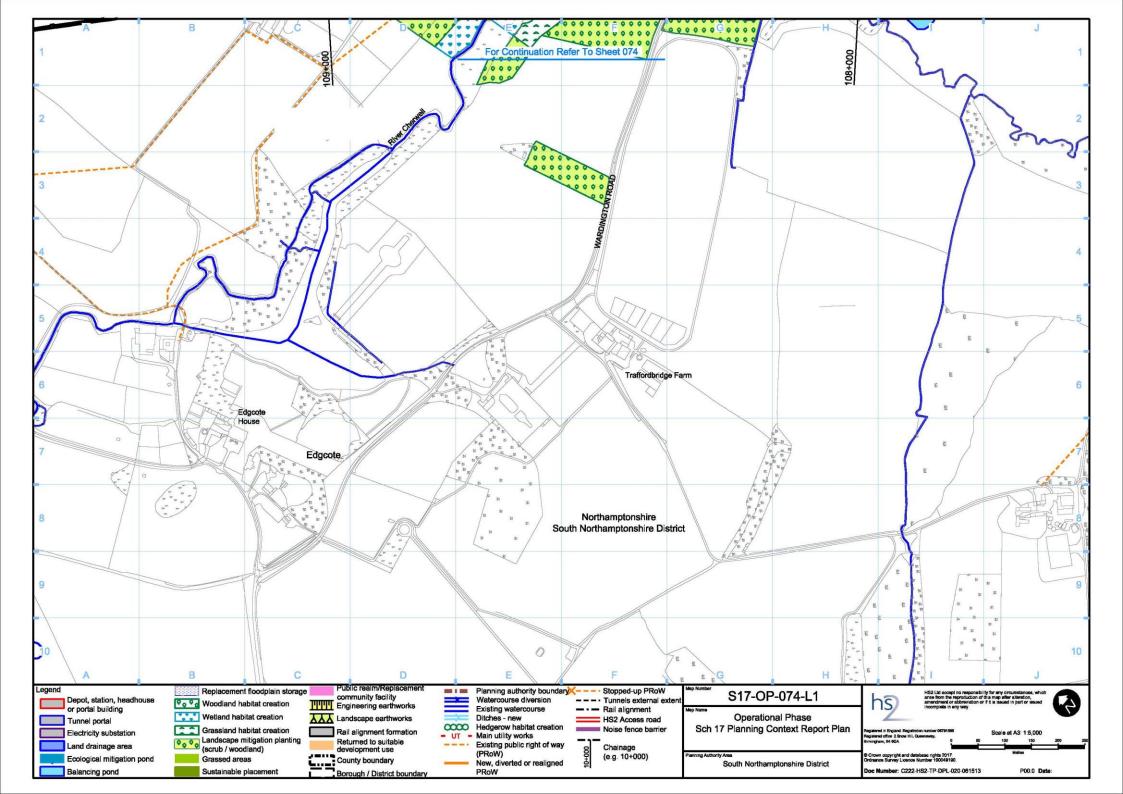


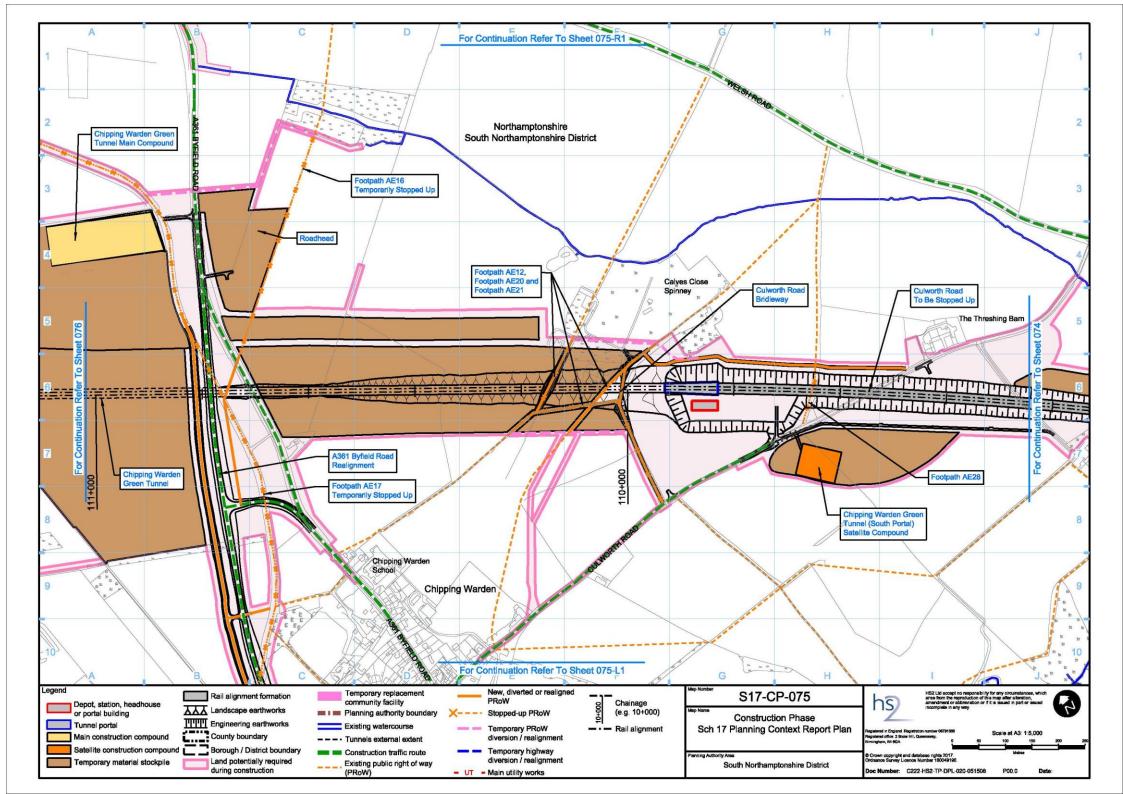


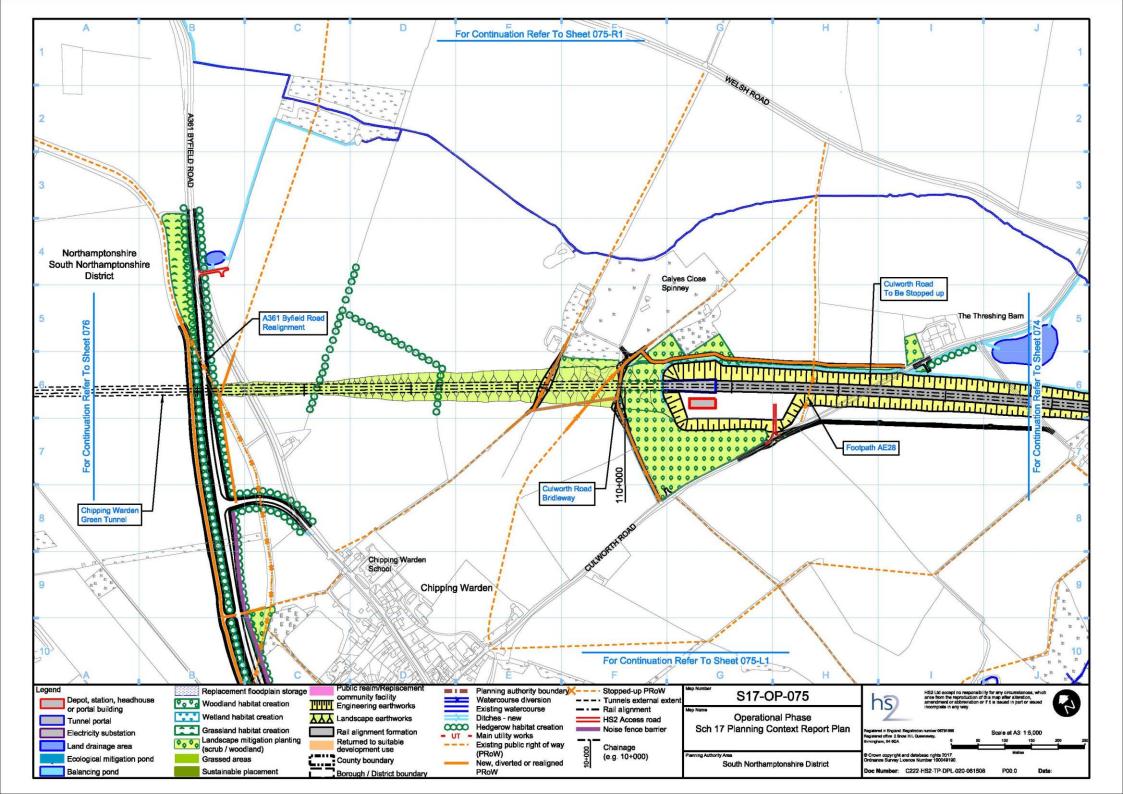


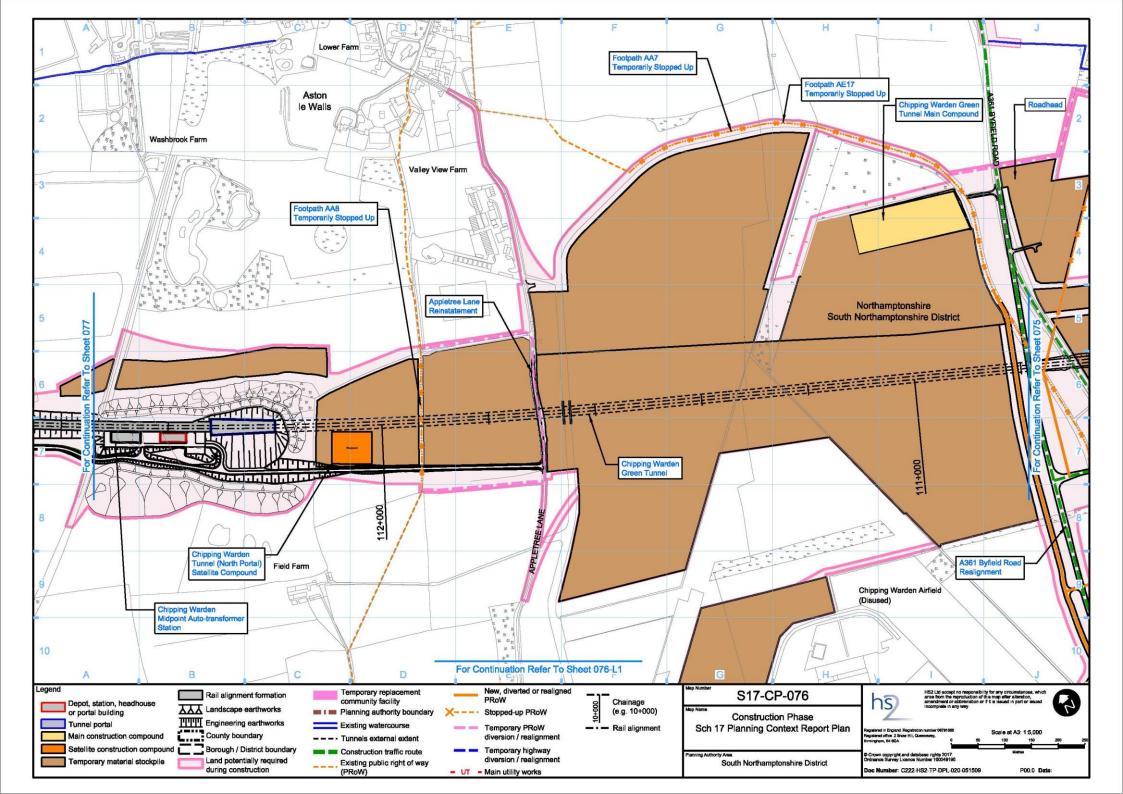


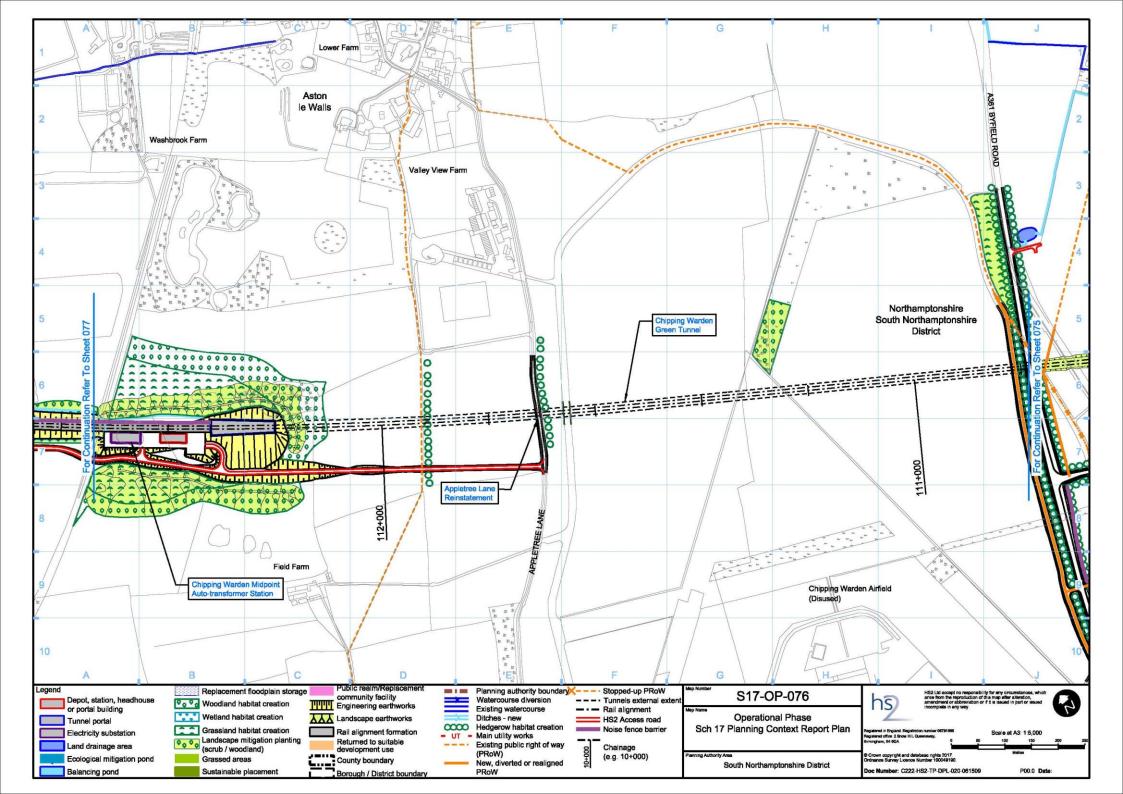


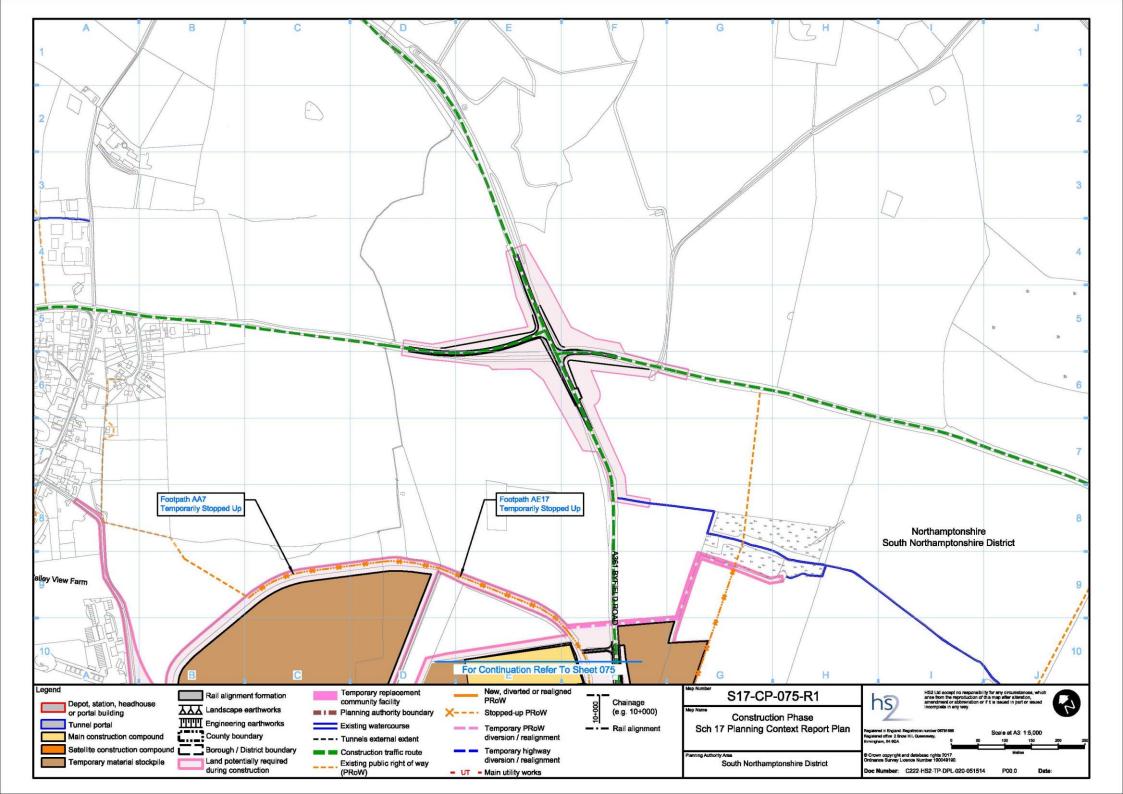


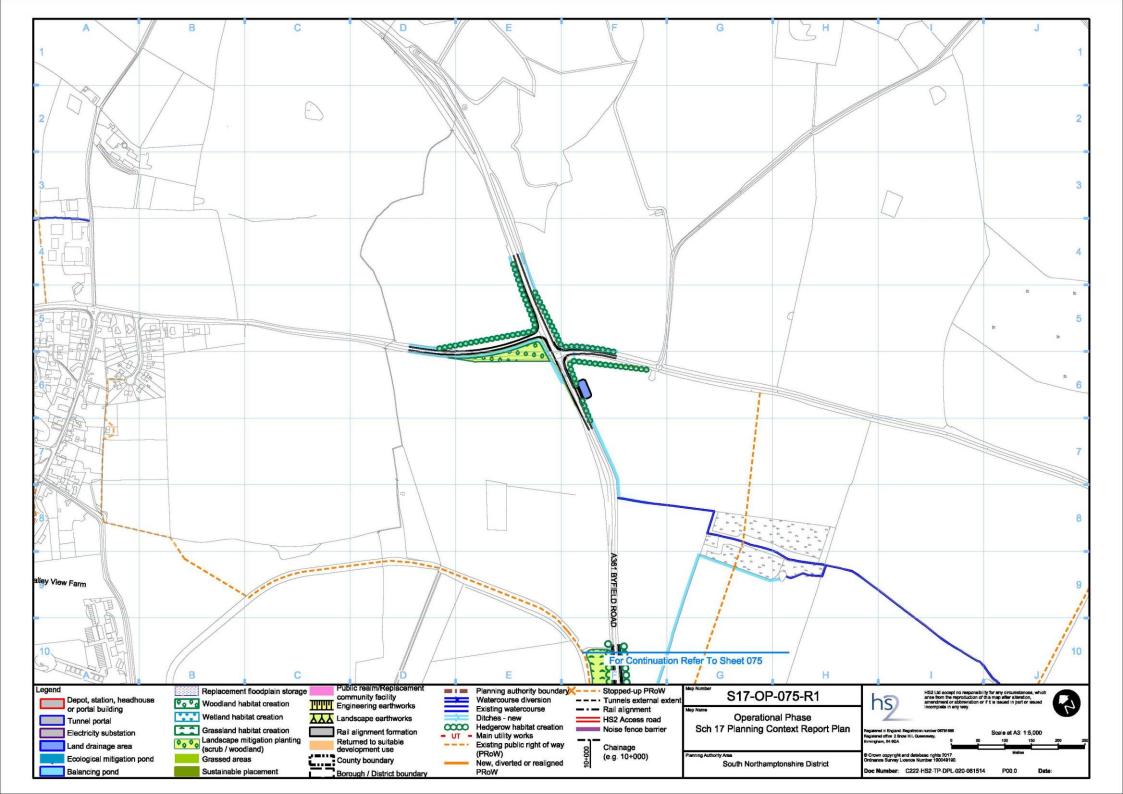


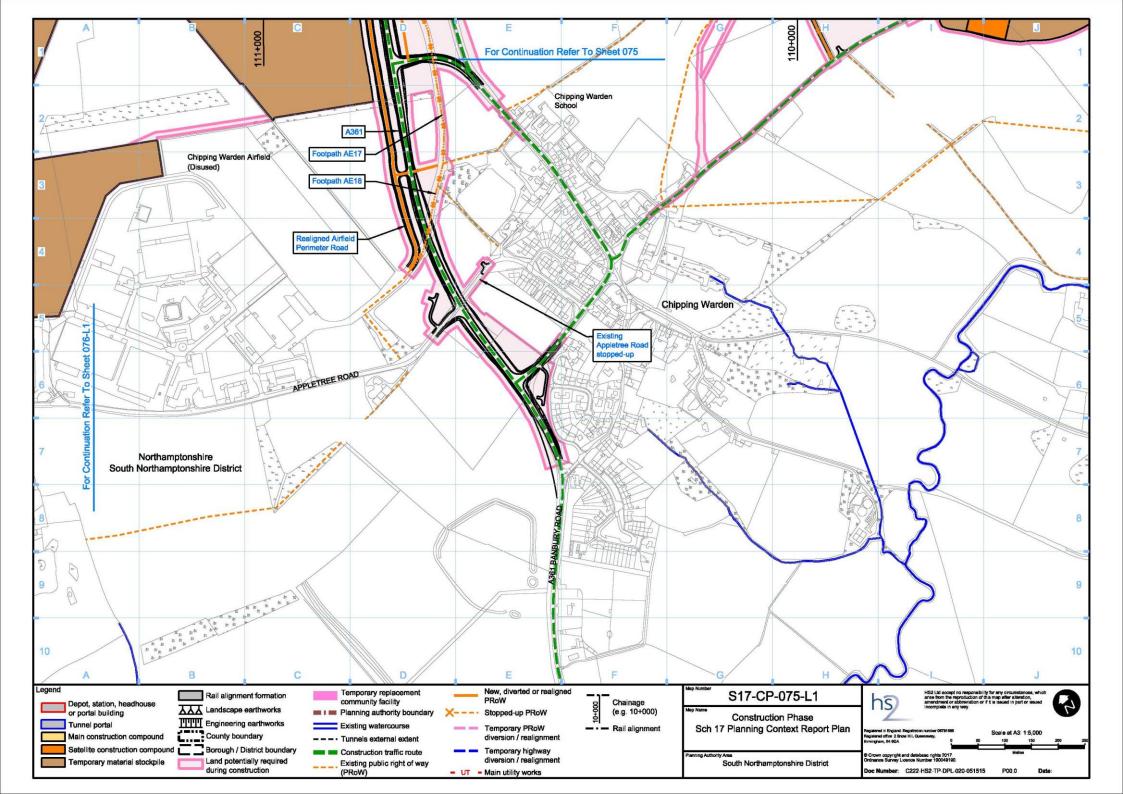


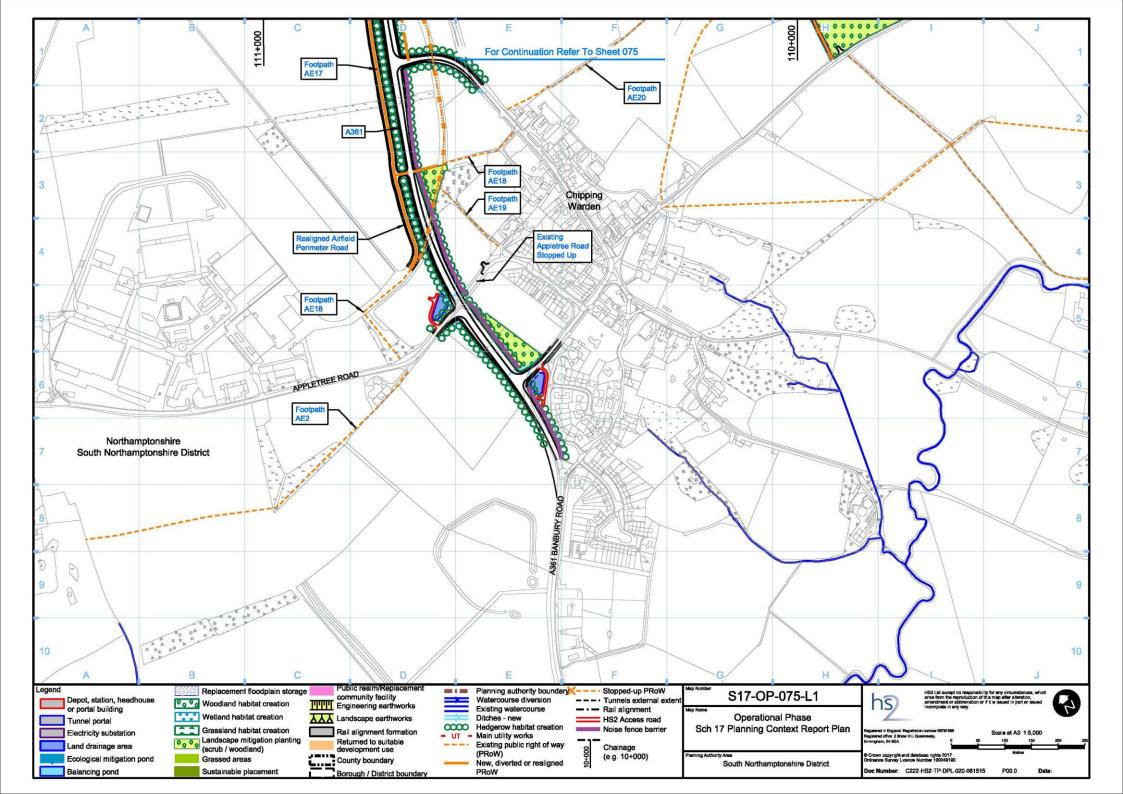


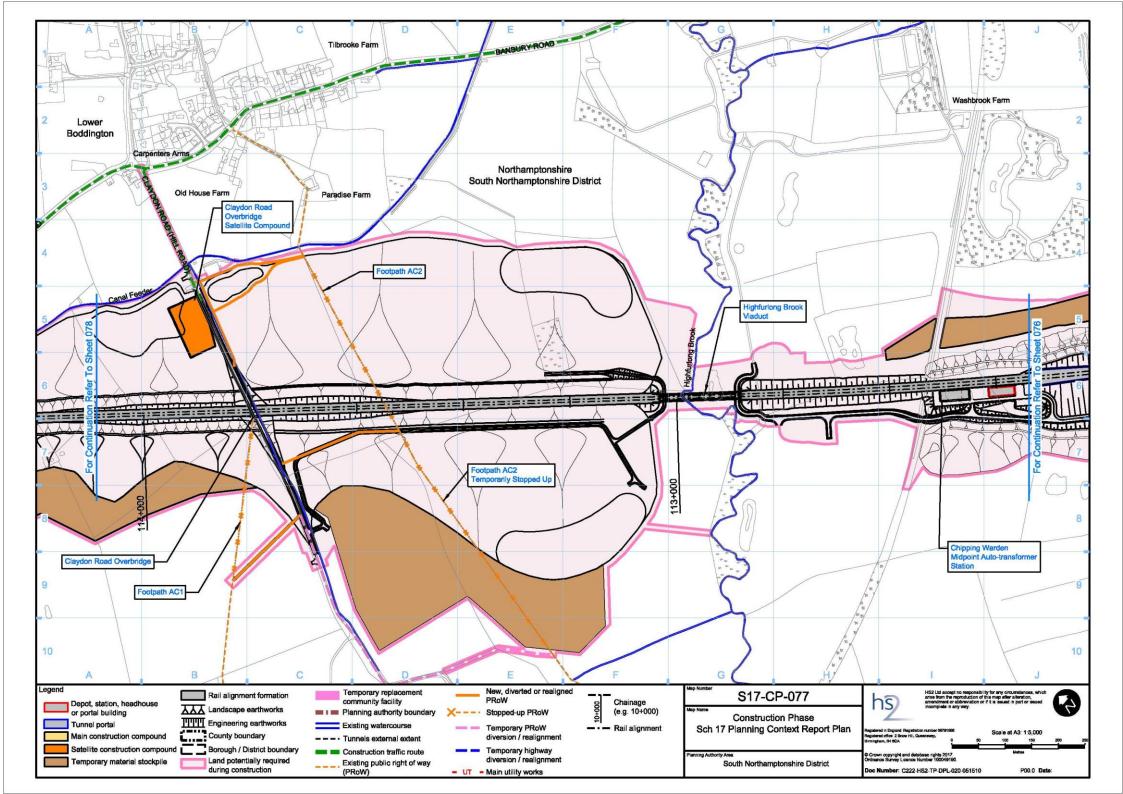


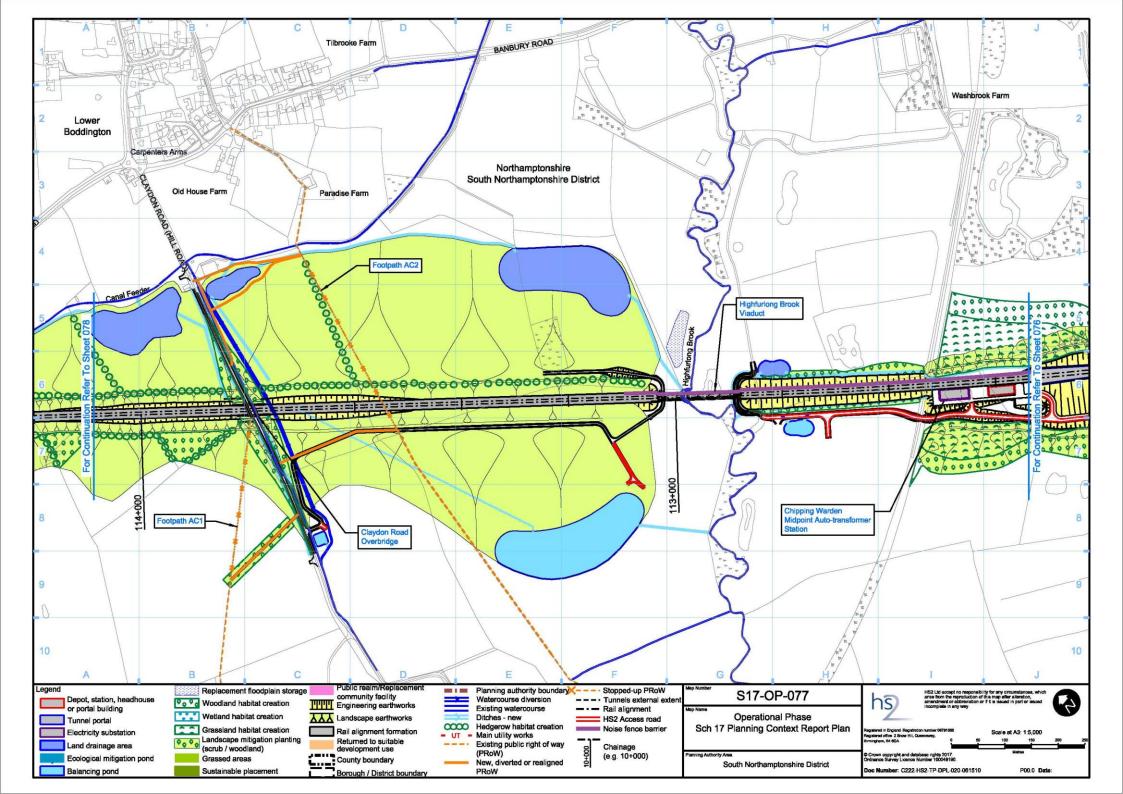


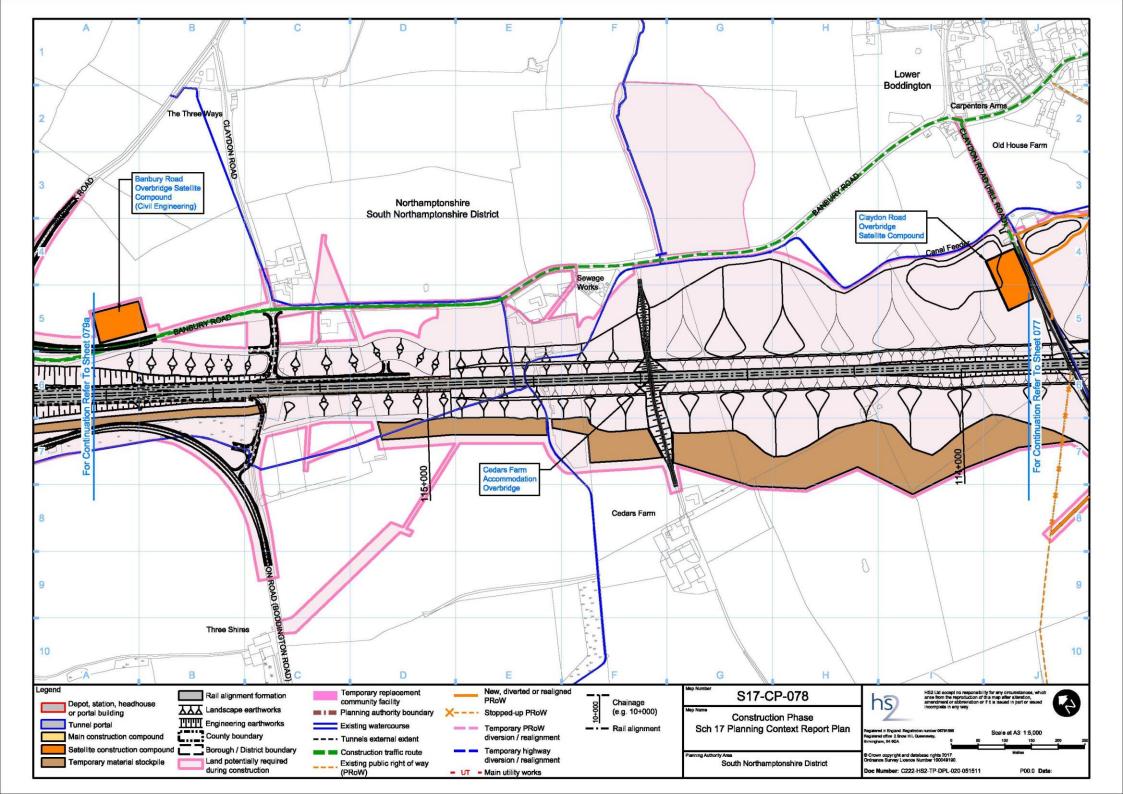


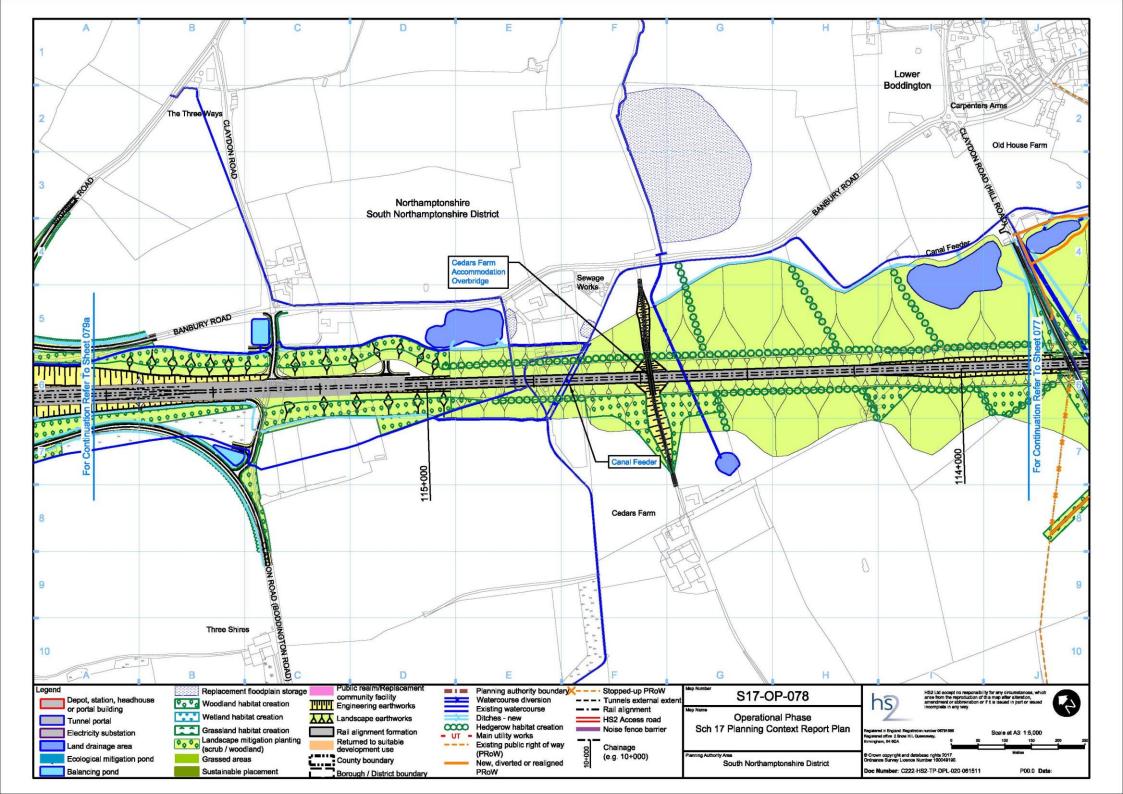


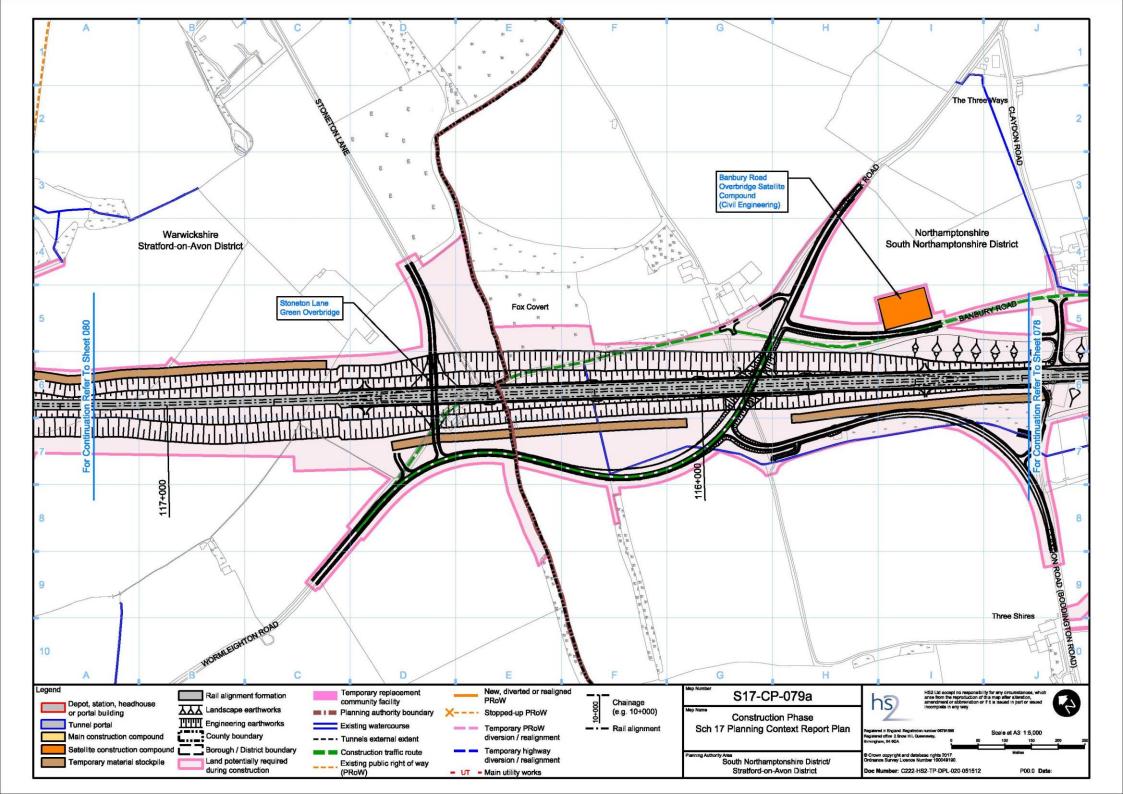


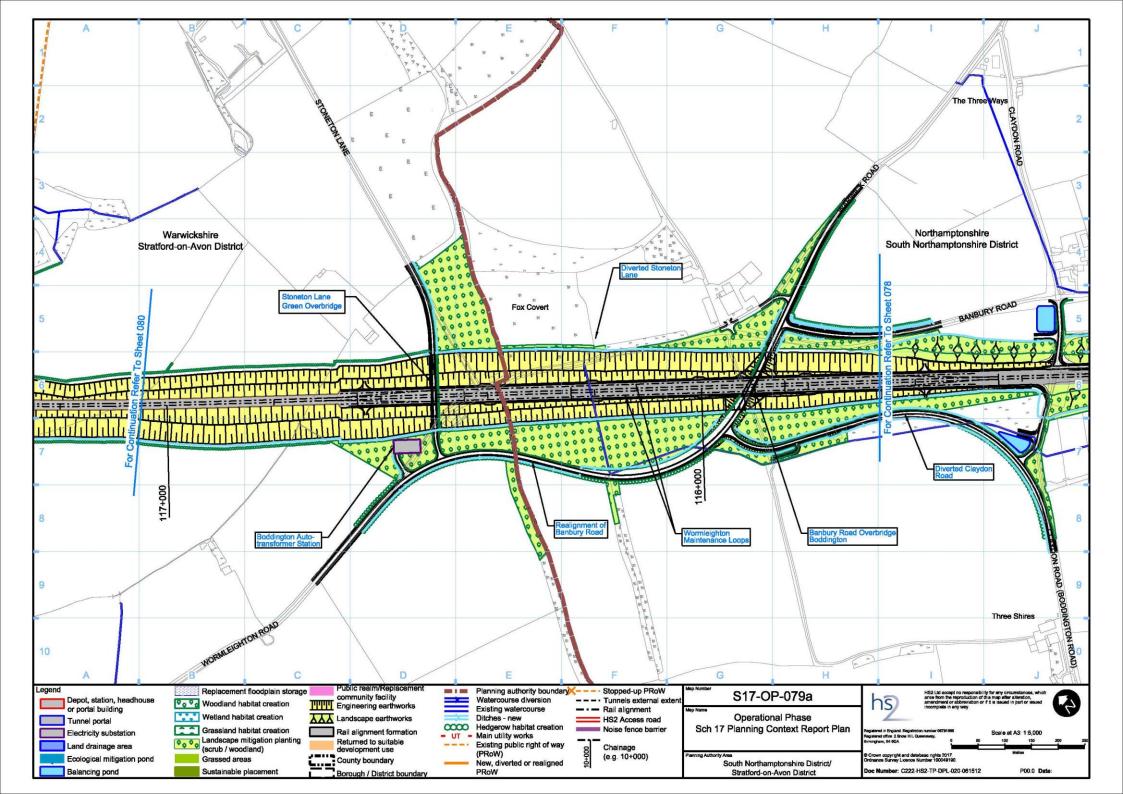












Annex 1 – Signposting

Document	Link
High Speed Rail (London – WestMidlands) Act 2017	http://www.legislation.gov.uk/ukpga/2017/7/contents/enacted
Schedule 17 Fee Regulations	http://www.legislation.gov.uk/uksi/2017/223/contents/made
Schedule 17 Appeal Regulations	http://www.legislation.gov.uk/uksi/2017/227/contents/made
High Speed Rail (London – West Midlands) Environmental Minimum Requirements	https://www.gov.uk/government/publications/environmental-minimum-requirements https://www.gov.uk/government/publications/high-speed-rail-london-west-midlands-bill-register-of- undertakings-and-assurances
Schedule 17 Statutory Guidance	https://www.gov.uk/government/publications/high-speed-rail-london-to-west-midlands-act-2017- schedule-17-statutory-guidance
Phase One Information Papers	https://www.gov.uk/government/collections/high-speed-rail-london-west-midlands-bill#information- papers
Phase One – Planning Forum Notes	https://www.gov.uk/government/publications/planning-forum-notes
Phase One Environmental Statement	https://www.gov.uk/government/collections/hs2-phase-one-environmental-statement-documents https://www.gov.uk/government/collections/additional-provision-september-2014 https://www.gov.uk/government/collections/supplementary-environmental-statement-and-additional-provision-2-july-2015

Document	Link
	https://www.gov.uk/government/collections/supplementary-environmental-statement-2-and-additional- provision-3-september-2015
	https://www.gov.uk/government/collections/supplementary-environmental-statement-3-and-additional- provision-4-october-2015
	https://www.gov.uk/government/collections/supplementary-environmental-statement-4-and-additional- provision-5-december-2015