

# HS2 Context Report

Prepared For North Warwickshire Borough Council

April 2017

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# Preface

## Purpose

This Planning Context Report provides an overview of HS2 works that will take place within North Warwickshire Borough (the Borough) 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 programme with respect to the making of requests under that Part to the authority,*

This document accordingly sets out the 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 North Warwickshire***

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

### ***Section 3: Landscape and Restoration***

Outlines landscape and restoration works 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 North Warwickshire.

## **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”).

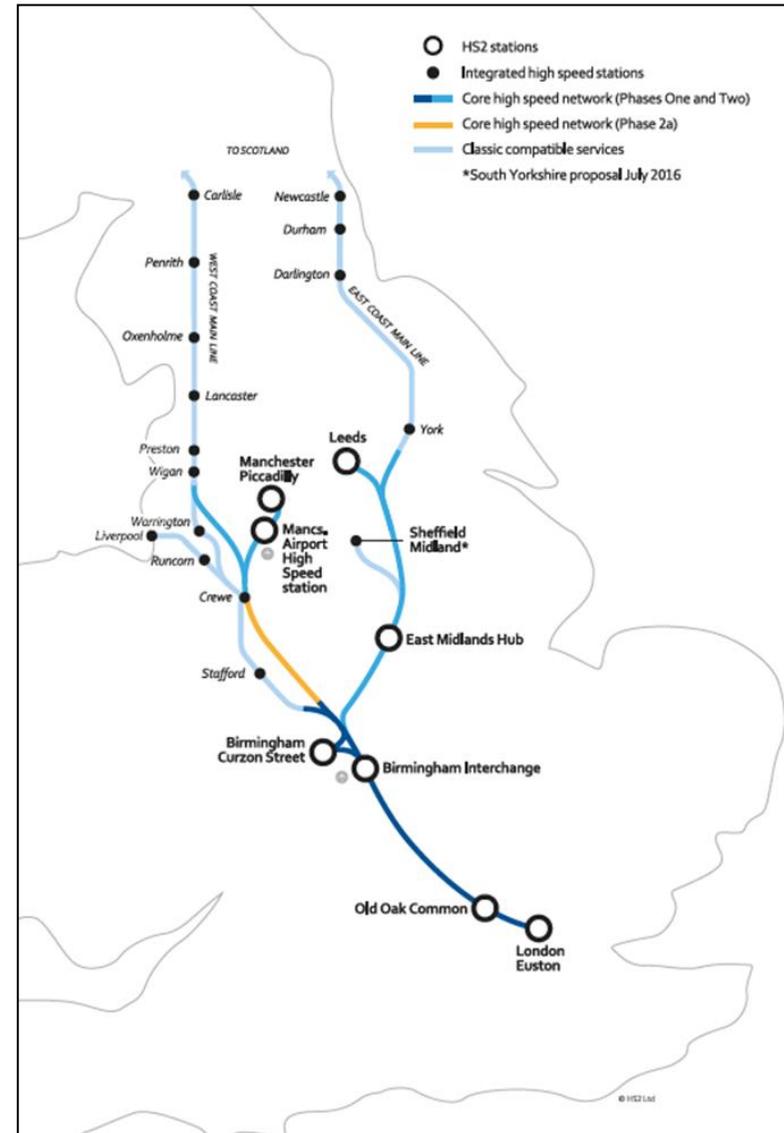
Annex 1 signposts these and other relevant documents.

# 1 Introduction to HS2

## The HS2 Project

- 1.1 HS2 is the Government's proposal for a new, high speed north-south 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 23<sup>rd</sup> 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 to 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 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 changes to the project<sup>1</sup>.
- 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.

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

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

## 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 principle 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 north-westwards and terminating beneath a point 80 metres north-west 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. The scheduled works cannot be constructed outside of the relevant Limit of Deviation (LoD) shown on the deposited plans.

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 Borough 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**

<b>PLANS AND SPECIFICATIONS</b>	
BUILDING WORKS (paragraph 2 of Schedule 17)	The erection, construction or alteration of any building, other than a temporary building.
OTHER CONSTRUCTION WORKS (paragraph 3 of Schedule 17)	Road vehicle parks; Earthworks; Sight, noise or dust screens;

PLANS AND SPECIFICATIONS	
	Transformers, telecommunication masts or pedestrian accesses to railway lines;  Fences or walls, and  Lighting equipment.
WASTE AND SPOIL DISPOSAL AND EXCAVATION (Paragraph 7 of Schedule 17)	Disposal of waste or spoil.  Excavations of bulk materials from 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 24<sup>th</sup> 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 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 alter 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 secure that 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 with 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 ES<sup>2</sup> ;
- would not be likely to be environmentally significant<sup>3</sup> ;
- 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 Directive<sup>4</sup> ; or (ii) article 4(2) of and paragraph 13 of Annex 2 to the EIA Directive<sup>5</sup>; 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 EMR 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.

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

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

<sup>4</sup> 2011 consolidated EIA Directive (2011/92/EU).

<sup>5</sup> Broadly, this would not allow those changes or extensions to the project (once it has received Royal Assent) which would give rise to adverse environmental effects within the EIA.

### ***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 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 Environment 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 seek approval for any oversight 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 oversight 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 oversight 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 clear and unambiguous.

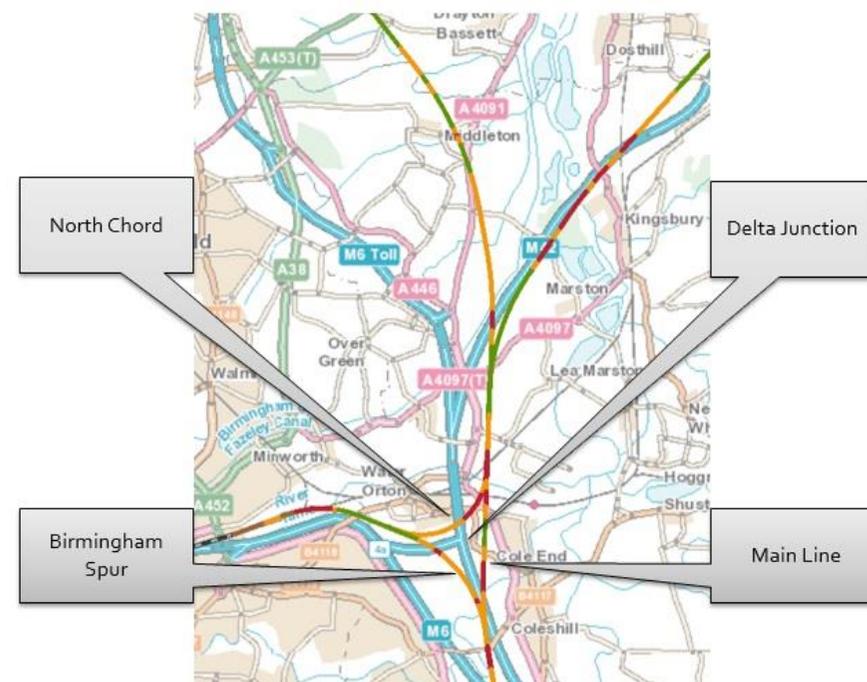
## 2 HS2 in North Warwickshire Borough

### Introduction

- 2.1 HS2 will enter North Warwickshire from Solihull Metropolitan Borough Council to the south. The route in North Warwickshire is approximately 13km in length beginning east of Chelmsley Wood, and includes the Delta Junction, located south of Water Orton, with the route running in a north-westerly direction splitting into two legs called the Leeds leg and Manchester leg. The Leeds leg runs in a north-easterly direction past Kingsbury, Polesworth and Austrey where it leaves North Warwickshire, running into North West Leicestershire Borough. The Manchester Leg runs in a north-westerly direction past Middleton where it leaves North Warwickshire running into Lichfield District.
- 2.2 The Delta Junction consists of three spurs: the 'Main Line', which runs south to north; the 'Birmingham Spur', approximately 3.3km in length and runs south to west and continues to Birmingham city centre and Curzon Street Station; and the 'North Chord', approximately 4.5km in length and joins the Birmingham Spur to the Main Line travelling

north. Section 5 of this report illustrates the location of works in North Warwickshire. This section describes the permanent, preparatory and temporary works in North Warwickshire Borough.

Figure 2: Delta Junction



- 2.3 As the project is taken forward to detailed design and construction there may be changes to the programme, construction methods and design summarised in this report, subject to the requirements of the HS2 Act, the Environmental Minimum Requirements, and any approvals required from relevant authorities.

## Permanent Works

### Stonebridge Island and A452 Chester Road

- 2.4 At the south-easterly boundary of the Borough, the route will commence at the M6 Motorway North Viaduct which will take the route in an alignment with the River Blythe which lies to the west. The construction of the Birmingham Interchange Station (BIS) will incorporate major highway improvements to Stonebridge Island, the A452 Chester Road and the M6 Junction 4. Some of these works will be located within North Warwickshire.
- 2.5 The highway improvements on the southern approach of the A452 Chester Road to the BIS will include a realignment and widening of the existing highway from dual two lane to dual three lane for a distance of approximately 915m between Stonebridge Island and south of the existing Packington Lane access. A station entry link road that crosses under the A452 will be provided to a new roundabout to access the BIS east car park.

- 2.6 Along the A452 Chester Road three balancing ponds for highway drainage will be installed with access taken from the southbound carriageway and link road. There will be native broad-leaved woodland planting around the link road, balancing pond and along the realignment of the A452 Chester Road for landscape integration and habitat replacement.

### M6 Junction 4 Roundabout Widening

- 2.7 Highway widening works to the M6 Junction 4 roundabout in this section will include:
- A446 Stonebridge Road widened from two to three lanes including the provision of a balancing pond accessed from the A446 and native broad-leaved woodland planting for habitat creation and connectivity with the Coleshill and Bannerly Pools (SSSI).
  - Temporary improvements to the junction between the A446 Stonebridge Road and B4114 to create two separate lanes on the approach to the roundabout rather than a single lane. The improvements will remain in place for up to five years.
  - Entry to M6 Junction 4 from the A446 Stonebridge Road northbound carriageway widened to three lanes and signalised.
  - Circulatory carriageway of the M6 Junction 4 widened to four lanes between the A446 Stonebridge Road northbound

roundabout entry and M6 northbound roundabout exit. This will require the widening of an existing bridge over the M6-M42 link road.

- Entry to M6 Junction 4 off the M6 northbound carriageway widened to three lanes. The existing traffic signals will be retained.
- Circulatory carriageway of M6 Junction 4 widened to three lanes, this will be mainly carried out within the existing carriageway cross section.
- Entry to M6 Junction 4 off the M6 southbound carriageway widened to three lanes with signalisation.
- Entry to M6 Junction 4 from A446 Stonebridge Road southbound widened to three lanes with signalisation. In addition, a balancing pond will be provided and accessed from the A446 Stonebridge Road.
- Coleshill Heath Road will be lowered locally by approximately 0.5m to enable the route to cross over the Coleshill Heath Road underbridge [Note: Coleshill Heath Road underbridge is located in Solihull Metropolitan Borough].

2.8 There will be additional permanent works associated in this section to include:

- Overhead power lines approximately 2.2km in length diverted by National Grid over the M6/M42 junction and Coleshill Heath Road.
- Overhead power lines approximately 375m in length diverted by Western Power Distribution to the east side of the route, directly south of Coleshill Heath Road.
- The removal of a transmission tower from Heath Park.
- Relocation of a mobile telecommunications mast, directly south of Coleshill Heath Road, on the centre line of the route. Relocation for the mast will be identified within the land required for the scheme.

### **M6 Box Structure to River Cole (Main Line)**

2.9 Leaving BIS, the HS2 route will continue north-west, crossing over the M42 on viaduct, with Coleshill and Bannerly Pools (SSSI) to the north-east and Birmingham Business Park to the south-west. The route will then enter the North Warwickshire on the Main Line where it will pass over the M6 box structure, the M6 Motorway 'south' viaduct and the M6 and slip road to the A446 Lichfield Road for approximately 270m. This structure will feature noise barriers on the west side.

2.10 The route will continue on the Coleshill (No1) embankment for approximately 160m. This earthwork will feature a noise barrier located on the west side and a balancing pond on the east side, with access taken from the locally lowered Coleshill

Heath Road. The M6 Motorway 'north' viaduct, approximately 90m long and featuring a noise barrier on the west side, will guide the route across a loop slip road that exits the M42 at junction 7a.

- 2.11 The Main Line will then pass onto the Coleshill (No2) embankment for approximately 450m. This will be landscaped on both sides to provide noise and visual attenuation from the railway. A balancing pond will be provided on the west side with access taken from the A446 Stonebridge Road.
- 2.12 The Coleshill East and West viaducts, both approximately 460m long and up to 16m above ground level, will carry four main line tracks and the Birmingham Spur track over the River Cole floodplain. The Coleshill West viaduct will feature a noise barrier on the Main Line and footpath M77/M72 will be realigned under the new viaducts crossing the River Cole floodplain. In addition, a permanent access will be provided to the adjacent farmland which will also serve HS2 maintenance vehicles (AP2).
- 2.13 The route will then pass onto the Coleshill (No3) embankment, approximately 600m long. This section will include highway works to locally lower and provide a road underbridge to the B4114 Birmingham Road. In addition, there will be a diversion of footpath M76 to maintain a connection to the B4114. A balancing pond and pumping station will be

located immediately to the east of the embankment. Access will be provided from Birmingham Road.

- 2.14 The Birmingham Spur dive-under structure will carry the southbound Birmingham Spur track under the Main Line, with retaining walls to allow the different heights of track to run close together. Further information related to the Birmingham Spur is provided below.
- 2.15 The Coleshill (No4) embankment, approximately 320m long will extend the line up to the M42 Coleshill 'south' viaduct that crosses the River Cole. There will be a requirement to divert part of Manor Drive and footpath M58 to skirt the west side of the route to join the B4114 Birmingham Road at a new junction just east of where it crosses the River Cole. Construction traffic serving the nearby compound will be separated from the main permanent access arrangements to Manor Drive.

### **River Cole to River Tame (Main Line)**

- 2.16 The River Cole will be realigned for approximately 730m to pass through the piers of the Main Line and adjacent Birmingham Spur viaducts. An allocated area will provide ecological mitigation and flood compensation extending along the revised river corridor. The route will cross the M42/M6 Toll carriageways on three box structures, to support approximately 130m of the Main Line before continuing on the Coleshill North viaduct for approximately 320m. This viaduct will feature noise barriers to the west. The B4117 Gilson Road

will be realigned to pass under the new viaduct with a relocated junction with Gilson Drive. Mitigation planting along the road realignment and a balancing pond, accessed from Gilson Road, will also be implemented.

- 2.17 The Main Line will then run onto the Gilson embankment, protected by noise barriers on both sides, for approximately 260m. The line will begin to descend from approximately 11m to ground level before passing through the higher ground in cutting at Gilson for approximately 580m. The Gilson Road autotransformer station (ATS) will be located to the east, with access provided off a redundant length of the B4117 Gilson Road. Mitigation earthworks, up to 3m, will be implemented to provide screening of the route and the ATS.
- 2.18 The route returns onto the Lichfield Road embankment for approximately 250m, this will feature a noise barrier on the east side on the approach to the A446 Lichfield Road. From this point the Chattle Hill box structure will allow the line to cross over the A446 Lichfield Road for approximately 110m. It will feature noise attenuation measures to the east, a second span to allow sufficient flexibility for future widening and a balancing pond immediately west of the box structure; access to the balancing pond will be taken from the A446 Lichfield Road.
- 2.19 After continuing on a short embankment, approximately 160m long and featuring a noise barrier on the east side, the route

will pass through the Coleshill Industrial Estate and sewage treatment works to then cross the Birmingham to Nuneaton Line along the Watton East and West viaducts. At this point the tracks diverge to enable the North Chord lines to join the Main Line at the boundary of Coleshill Junction and the Curdworth to Middleton area.

- 2.20 The Watton House embankment, approximately 220m long, will carry the Main Line tracks, approximately 9m high with the North Chord line into Birmingham, before leaving the area at the viaduct crossing of the River Tame. A new access road taken from the A446 Lichfield Road located on the west side of the railway will provide additional access to a balancing pond and for general railway maintenance purposes.
- 2.21 Additional works in the area will include a realignment of footpath M62, linking Coleshill to Gilson, over a new footbridge to cross the railway where it is in cutting, approximately 90m south of its current location. Footpath M60 will be diverted to join footpath M62 to the east of the railway and therefore pass over the same footbridge and back along the B4117 Gilson Road. A redundant length of footpath M60 will be stopped up to the west of the Main Line.

## Birmingham Spur

- 2.22 The majority of the railway in this area will be raised above ground level in order to pass over existing roads, railways and rivers.

2.23 The Birmingham Spur will have two parallel alignments – one for the southbound lines (on the eastern side) where it separates from the Main Line south of Coleshill Hall Farm; and one for the Birmingham-bound lines (on the western side) where it leaves the Main Line between the B4114 Birmingham Road and the River Cole.

#### **Southbound lines (east)**

2.24 The southbound line will commence on the widened Coleshill embankment located north of the M42. The railway will then travel along the Coleshill East Viaduct for approximately 460m, over the River Cole floodplain. The route will continue along the Coleshill (No5) embankment for approximately 330m, reducing in height and running parallel with the Main Line embankment. This section of the route will incorporate an underbridge of the B4114 Birmingham Road. The line will travel in cutting for up to 270m carrying the track to a lower level before descending under the Main Line via the Birmingham Spur dive under.

2.25 The route now on the Manor Drive embankment for approximately 140m will begin to cross the River Cole on viaduct for approximately 140m before entering onto the Green Lane embankment for approximately 1km. Raised earthworks and planting in this area will offer noise and visual screening for the surrounding areas. The route will cross the M42-M6 link roads on a viaduct for approximately 160m,

running parallel to the Birmingham-bound line (west) before traveling on a raised embankment for 600m as to allow the track to stay above the adjacent Birmingham-bound line (west) and to pass over the North Chord via the Attleboro Flyover.

2.26 The Water Orton cutting, approximately 600m in length and increasing in depth will provide noise and visual screening of the railway for residents in Water Orton. The route runs adjacent to the Birmingham-bound line (west) separated by the Attleboro Flyover retaining walls. Attleboro Lane will be realigned west of the existing arrangement to cross over the Birmingham Spur. This area will also accommodate a balancing pond and a pumping station between the land of the existing and proposed Attleboro Lane. The railway will then continue west to the Birmingham City/North Warwickshire boundary.

#### **Birmingham-bound lines (west)**

2.27 The Birmingham-bound spur line will split to the west from the Main Line onto the Coleshill (No3) embankment, before descending where the lines will pass over the realigned length of the River Cole on the River Cole West viaduct for approximately 110m. It will be separated by the adjacent southbound viaduct by approximately 50m. The lines will then pass onto a landscaped and vegetated Green Lane embankment, just over 1km long, where the route continues

through the east side of the Coleshill Manor Office Campus. There will be a balancing pond to the west of the embankment. Woodland planting will be relocated approximately 100m north-west of 'The Belt'. This will create new woodland habitat of approximately 1.2ha to compensate for losses of woodland from 'The Belt'. Access to Coleshill Manor Office Campus will be re-provided by the realigned highway works to Manor Drive. Footpath M54 will also be realigned to pass under viaducts and will be able to join the realigned footpath M57.

- 2.28 The route will then rise to cross the M42-M6 link roads on a viaduct, approximately 160m long before continuing on embankments, reducing the level of the line before taking the Birmingham Spur lines around the southern side of Water Orton. The line heads west towards Birmingham in the Water Orton cutting and separated from the southbound line (east) with retaining walls before exiting towards the Birmingham City/North Warwickshire boundary.

## North Chord

- 2.29 The North Chord provides the link between Birmingham in the west and the Main Line to the north of Coleshill. Most of the railway in this section will be raised above existing ground levels, in order to pass over the M42 and M6 Toll carriageways and slip roads, the B4117 Gilson Road, the A446 Lichfield Road and the Birmingham to Nuneaton Line.

- 2.30 The North Chord route will feature two parallel alignments – one for the northbound lines (Water Orton side); and one for the Birmingham-bound lines (south side).

### Northbound lines (Water Orton side)

- 2.31 From west to east, the northbound line of the North Chord, which is the line closest to Water Orton, will split from the Birmingham Spur in cutting, just east of the Attleboro Lane overbridge. It will travel along the Marsh Lane embankment for approximately 1.5km. This section of the route will feature raised earthworks and mitigation planting on the north side to provide visual screening for residents in Water Orton. There will be a realignment of watercourses crossed by the route situated south of Water Orton. Subject to planning this area will also provide a new location for the Old Saltleians Rugby Club.
- 2.32 The Water Orton (No 3) viaduct, approximately 630m long, will carry the route over the M42/M6 Toll, onto the Watton Lane embankment to the point where it exits the Coleshill Junction area and passes over the River Tame on viaduct, parallel to the Main Line and on into the Curdworth to Middleton area.
- 2.33 Two balancing ponds will be constructed, one on the north side of the route west of Coleshill Road; accessed via the relocated Rugby Club entrance. The other balancing pond is located to the west of the railway, adjacent to the Birmingham to Nuneaton Line and east of the A446 Lichfield Road.

### **Birmingham-bound lines (south side)**

- 2.34 The Birmingham-bound line (south side) of the North Chord runs parallel to the northbound line where the track starts to separate from the Birmingham Spur in cutting, just east of the Attleboro Lane overbridge. The Attleboro flyover structure will enable the track to pass under the southbound line of the Birmingham Spur and continue along the Water Orton cutting for approximately 300m running the track parallel to the northbound North Chord. It will be separated by a retaining wall.
- 2.35 The line will continue onto the Marsh Lane embankment over a length of approximately 850m. This embankment will be screened from Water Orton by the northbound line and further screening. The Water Orton (No1) viaduct, adjacent to the northbound (No3) viaduct, will carry the line for approximately 1.5km and over the M42/M6 Toll, B4117 Gilson Road, the existing Old Saltleians RFC pitches, the A446 Lichfield Road, the Birmingham to Nuneaton Line, the Main Line and the River Tame before tying back into the Main Line after leaving the Coleshill Junction area.

### **River Tame to Leeds spur dive-under and Marston Lane (including site of Kingsbury Road railhead)**

- 2.36 Continuing north for approximately 550m the route crosses the River Tame, sewage works, the Minworth Effluent Channel and the Birmingham and Derby Line on the River Tame East

and West viaducts and the Curdworth viaduct. South to north the heights of the viaducts will range from approximately 14m to 10m and the width will taper from 60m to approximately 45m. At this point the Water Orton viaducts from the North Chord will connect into the viaducts described above.

- 2.37 The route extends onto the Faraday Avenue embankment for approximately 350m, south of an underbridge at Faraday Avenue. Adjacent to this work is an access bridge that will serve two balancing ponds, one north of the Birmingham and Derby Line crossing and another north of Faraday Avenue. Landscape planting in the area will provide habitat connectivity and help to integrate the road into the landscape.
- 2.38 The route at this stage will consist of six tracks; two through lines, two lines to Birmingham and two lines for Phase Two. The line will pass into the Curdworth cutting for approximately 1.3km. At its widest the cutting will be approximately 190m wide, north of the A4097 Kingsbury Road as to allow a connection between the reception sidings and the Kingsbury Road railhead.
- 2.39 From this point a junction for the Leeds spur dive-under will descend between retaining walls in part of the Marston Farm cutting which will be approximately 1.7km long. The track will diverge from the Main Line just before the A4097 Kingsbury Road overbridge to head north-east, roughly following the line of the M42. A length of the Phase Two route towards Leeds

will be constructed as far as Marston Lane to enable Phase Two construction to proceed without disrupting the operation of Phase One.

- 2.40 Earthworks required for the Kingsbury Road railhead will remain after the works are complete creating a generally flat area of land. The existing cutting of the Birmingham and Derby Line will be widened between Hams Lane and Church Lane to accommodate the temporary reception sidings for the Kingsbury Road railhead.
- 2.41 A cutting, approximately 500m in length, will connect the railhead to the reception sidings. This will result in Hams Lane being temporarily and slightly diverted offline as part of the construction of an overbridge. A balancing pond will be provided to the east, accessed from Church Lane and a pumping station will be located on the eastern end of the site of the temporary reception sidings with access taken from Hams Lane. A new accommodation overbridge will carry footpath M16, connecting Hams Lane with the A446 Lichfield Road, over the Curdworth cutting.
- 2.42 The A4097 Kingsbury Road will be realigned for 750m on a permanent new overbridge. In addition, a permanent overbridge will be constructed to carry Seeney Lane over the Kingsbury Road railhead track and a balancing pond will be provided to the north-east. The design of the overbridge will allow for the future provision of Phase Two. Seeney Lane and

Bridleway M23 will be realigned and retained as a bridleway with private access. Enhanced landscape and mitigation planting will be undertaken along the top of the earthworks to screen the east and southern sides nearest to receptors.

### **M42 Box Structure to east of Hunts Green**

- 2.43 Continuing north-west on the Main Line, and moving away from the Kingsbury Road Railhead site, the route will pass onto the Dunton Wood embankment for approximately 320m before crossing the M42 on a box structure and the Birmingham and Fazeley Canal on viaduct, for the next 350m. Marston Lane and the bridge over the M42 will be closed to all but footpath users and alternative access to the Birmingham and Fazeley Canal will be provided by upgrading the existing track parallel to the M42 to a byway open to traffic.
- 2.44 The route will transfer onto the North Wood embankment for approximately 2.7km, which will include raised earthworks and planting on both sides of the railway to provide visual and noise screening. At the start of the embankment and located immediately north of the Birmingham and Fazeley Canal will be the Cuttle Mill mid-point ATS situated adjacently to a balancing pond with access provided east of Cuttle Mill Fishery.
- 2.45 Continuing north and remaining on the North Wood embankment there will be a series of underbridges: 1) Cuttle Mill underbridge located immediately east of the fishery that

will cross Byway T179; 2) The North Wood underbridge, approximately 4m high over a watercourse at the floodplain north of North Wood; 3) Hunts Green underbridge, approximately 4m high over a watercourse at the floodplain just south of Bodymoor Heath Lane. This section will also include two further balancing ponds, with maintenance access taken from the A4091 and an area for replacement floodplain storage.

- 2.46 The Bodymoor Heath overbridge and the A4091 Tamworth Road overbridge, on raised alignments, allows the route to continue north. Nearby Brick Kiln Lane will be widened on the south side and footpath T17 will be diverted to join Brick Kiln Lane allowing pedestrians to use the new overbridge. A revised access will be provided into the Bodymoor Heath Training Ground facility.
- 2.47 Mitigation planting along the embankments will be undertaken throughout this area connecting to the severed parts of the existing woodlands. In addition, wetland habitat creation planting will be provided in the old quarry near Bodymoor Heath Lane.

### **Hunts Green to east of Middleton**

- 2.48 From Bodymoor Heath Lane the route continues north-west and into the Middleton Pool cutting for approximately 630m. Both sides of this earthwork will provide noise and visual attenuation. The railway will pass under a raised and

permanently realigned A4091 Tamworth Road (overbridge) before entering onto a short embankment and making the approach to cross over the Langley Brook on viaduct for approximately 40m. The viaduct will feature a 3m noise barrier on the west side. Two balancing ponds will be constructed, one accessed from the realigned Crowberry Lane and another off Church Lane. A drainage system will be established along the side of the route, connecting to outfalls at Langley Brook.

- 2.49 The route will travel further north for approximately 550m on the Church Lane embankment and the Coppice Lane cutting, which will feature visual and noise screening. The line will pass under the realigned overbridge at Church Lane for 720m, with the village of Middleton immediately located to the west. A new bridge, approximately 10m above current ground level, will carry footpath T15 over the railway and provide farm accommodation access north-east of Middleton.
- 2.50 Trickle Coppice embankment, approximately 1.1km in length, will guide the route further north approaching Gallows Brook and to the administrative boundary between Lichfield District and North Warwickshire. Gallows Brook will be culverted below the railway embankment, with an associated diversion along the western edge of the route, south of the Drayton Bassett viaduct. Screening earthworks will help reduce the length of culvert required, with a short length of noise barrier provided on the west side of the culvert crossing for continuity.

- 2.51 Planting will be undertaken throughout this section, adjacent to the railway, the diverted highways and on associated earthworks on both sides of the railway.
- 2.52 The route will then continue into the Drayton Bassett, Hints and Weeford area before briefly returning back into the North Warwickshire for approximately 260m, and along part of the Drayton Lane embankment.

### Preparatory and Temporary Works

- 2.53 Construction activities will begin in 2017 and run until 2024, after which a year of systems commissioning will take place during 2025. A number of large civils work main compounds will be on site for around 4-5 years, with smaller satellite compounds operational for around 3 years. Building and preparing the railway for operation will comprise the following general stages:
- advance works, including site investigations, preliminary mitigation works, and preliminary enabling works including utility diversions, temporary and permanent highway diversions and the establishment of associated works compounds;
  - civil engineering works, including site preparation, main earthworks, structure works and the establishment of construction compounds and accommodation camps;

- railway installation works, including infrastructure installation and connections to utilities;
  - site restoration; and
  - system testing and commissioning.
- 2.54 Further information and updates on construction works and timeframes will take place throughout the life of the construction project.

### Primary Utility Works

- 2.55 Numerous utilities will need to be diverted as part of the works. The principal works and diversions within North Warwickshire are described below.
- 400mm steel National Grid high-pressure gas main near M6/M42 junction, diverted under the railway.
  - 450mm steel National Grid high-pressure gas main near Bromwich Court, A446 Lichfield Road, to be diverted under the railway.
  - 600mm steel National Grid high-pressure gas main near Bromwich Court, A446 Lichfield Road, to be diverted under the railway.
  - 450mm steel high-pressure National Grid pressure reducing station diversion near Attleboro Lane.

- 300mm steel high-pressure National Grid gas main pipeline diversion under the railway, near the M42/M6 Toll.
- Severn Trent water main diversion (450m) alongside Coleshill Heath Road.
- Severn Trent water main diversion under Gilson Drive;
- Severn Trent water main diversion (1300m) under B4117 Gilson Road and Gilson Drive.
- Severn Trent water main diversion (450m) from alongside B4118 Birmingham Road/Water Orton Road to alongside existing mains within B4117 Watton Lane.
- Severn Trent water main diversion (450m) under B4117 Watton Lane alongside existing mains within B4117 Watton Lane.
- Severn Trent water main diversion (1000m) under the railway at B4117 Watton Lane/A446 Lichfield Road roundabout to field to the east of A446 Lichfield Road, including a crossing over River Tame.
- Severn Trent water main diversion (1100m) under the railway and A446 Lichfield Road.
- Severn Trent sewage 1650mm diversion under the railway north of M6/M42 junction.
- Severn Trent sewage 1575mm diversion crossing beneath the Birmingham spur, to the west of M42/River Cole crossing.
- Severn Trent sewage 1500mm pipe diversion under the railway near the M42, to the south of Gilson Road.
- Severn Trent sewage 1575mm diversion crossing under the railway and A446 Lichfield Road.
- Severn Trent sewage 1575mm diversion crossing under the north chord and heading towards the main line.
- Severn Trent sewage 1500mm pipe diversion under the railway, just to the north of the Birmingham to Nuneaton Line.
- Relocation of Severn Trent water assets within Coleshill sewage treatment facility.
- National Grid overhead line Feckenham to Hams Hall 400 kilovolt (kV) diversions near M6/M42 junction, requiring at least three replacement electricity pylons to divert the route over the railway.
- Western Power Networks 132(kV) cable diversions to reposition overhead power lines to the east of the main line and run cables under the railway. This will involve the removal of existing electricity pylons at several locations.
- National Grid overhead line diversions Feckenham to Hams Hall 400kV and Berkswell to Hams Hall 275kV near M42/M6

Toll, B4117 Watton Lane/A446 Lichfield Road, including one junction and one electricity pylon to allow crossing of HS2.

- Birmingham Airport Link fuel pipeline runs underground alongside the M6 between Smith's Wood and Water Orton and there are three locations, in the vicinity of Attleboro Lane overbridge.
- 600mm-diameter high-pressure gas mains, near Church Lane.
- 132 (kV) high voltage electricity plant/ cable at Faraday Avenue.
- 400 (kV) overhead cable, approximately 400m north of Faraday Avenue.
- 400 (kV) overhead cable, adjacent to the A4097 Kingsbury Road.
- Fuel pipeline at Marston Lane (also crosses the Leeds spur dive-under).
- Permanent diversions of several utilities around the A452/A446 roundabout, including underground diversions of high-voltage overhead power lines, water mains, telecommunications cables, and a new electricity supply connecting to the Birmingham Interchange Station.
- Diversion of a National Grid high-voltage overhead power line over M6/M42 junction and Coleshill Heath Road.

- Permanent diversion of a Western Power low-voltage underground power line south of Coleshill Heath Road.
- Permanent diversion of a Western Power high-voltage overhead power line directly south of Coleshill Heath Road.

## Work sites and compounds

- 2.56 Construction of the scheme 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, viaducts, roads and other structures; and/or
  - railway installation works, such as laying ballast or slabs and tracks, and/or installing power supply and communications features.
- 2.57 Construction work will be subdivided into sections, each of which will be managed from dedicated 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. A number will require new access roads/tracks from the highway to their location on the line of the route. Compounds will either be large main compounds or smaller satellite compounds distributed along the route to serve specific construction elements/assets. Some compounds used for civil engineering works will later change function to serve railway installation works (rail systems).

2.58 A small number of work sites will also feature adjacent accommodation camps to house construction workers 'on-site'.

2.59 A full list of work sites within North Warwickshire Borough are listed in Table 2, along with their associated principal construction activities over the course of the construction period.

**Table 2: Construction compound and principal activities**

Compound name and location	Principal construction activities
Attleboro Flyover satellite construction compound	Works associated with the flyover structure and earthworks
Attleboro Package Sub Station	Required for Rail Systems following main works
Water Orton Viaduct 1 & 3 Satellite construction compound	Works associated with the viaduct, enabling works, utilities, bridge and haul road, environmental works, habitat creation
Water Orton Viaduct 1 & 3 (South)	Works associated with the construction of viaduct and earthworks

Compound name and location	Principal construction activities
Water Orton Viaduct 1 & 3 (M42 South)	Works associated with the construction of viaduct and earthworks
Water Orton Viaducts (M42 North)	Works associated with the construction of viaduct and earthworks
Water Orton Viaduct 1 & 3 (Central)	Works associated with the enabling works, utilities and construction of viaduct and earthworks
Curdworth Viaduct (South) Satellite construction compound	Works associated with the construction of enabling works, utilities and construction of viaduct and earthworks
Curdworth Viaduct (Central) Satellite construction compound	Works associated with the construction of enabling works, environmental works and construction of viaduct and earthworks
Curdworth Viaduct (North) Satellite construction compound	Works associated with the construction of viaduct and earthworks

Compound name and location	Principal construction activities
Chattle Hill Box Structure Satellite construction compound	Works associated with the construction of box structure and earthworks
M42-M6 Motorway Link Viaducts (West) Satellite construction compound	Works associated with the construction of viaduct and earthworks
M42-M6 Motorway Link Viaducts (Central) Satellite construction compound	Works associated with the construction of viaduct and earthworks
M42-M6 Motorway Link Viaducts (East) Satellite construction compound	Works associated with the construction of viaduct and earthworks
M42 Coleshill North Viaduct Satellite construction compound	Works associated with the construction of viaduct and earthworks
M42 Coleshill Box Structure Satellite construction compound	Works associated with the construction of box structure and earthworks
Gilson Road ATS Satellite construction compound	Required for Rail Systems following main works

Compound name and location	Principal construction activities
Birmingham Spur Dive-under	Works associated with the construction of Dive-under structure and earthworks
Manor Drive	Works associated with highway enabling works
Coleshill West Viaduct	Works associated with the construction of viaduct and earthworks
M6 Motorway North Viaduct (South)	Works associated with the construction of viaduct and earthworks
M6 Motorway North Viaduct (South)	Works associated with the construction of viaduct and earthworks
M6 Motorway Main construction compound	Works associated with the enabling works, M6 Motorway road network improvements and environmental and planting mitigation

Compound name and location	Principal construction activities
M6 Motorway Temporary Workers Accommodation	Temporary workers accommodation
M6 Motorway South Viaduct	Works associated with the construction of viaduct and earthworks
Kingsbury Road Railhead Satellite construction compound	Works associated with the enabling works and Kingsbury Road railhead
A4097 Kingsbury Road Overbridge Satellite construction compound	Works associated with the enabling works, environmental and ecology mitigation and A4097 Kingsbury road overbridge
A4097 Kingsbury Road Overbridge Main construction compound	Works associated with the A4097 Kingsbury road, railhead and reception sidings
A4097 Kingsbury Road Temporary Workers Accommodation	Temporary workers accommodation

Compound name and location	Principal construction activities
Seeney Lane Overbridge Satellite construction compound	Works associated with the Seeney Lane overbridge and earthworks
Faraday Avenue Underbridge Satellite construction compound	Works associated with the enabling works and Faraday Avenue underbridge and earthworks
Birmingham and Fazeley Canal Viaduct (South) Satellite construction compound	Works associated with the construction of viaduct and earthworks
Birmingham and Fazeley Canal Viaduct (Central) Satellite construction compound	Works associated with the construction of viaduct and earthworks
Birmingham and Fazeley Canal Viaduct (North) Satellite construction compound	Works associated with the construction of viaduct and earthworks
Cuttle Mill Mid Point Auto-Transformer Satellite construction compound	Required for Rail Systems following main works

Compound name and location	Principal construction activities
Cuttle Mill Underbridge Satellite construction compound	Works associated with the Cuttle Mill underbridge and earthworks
Hunts Green Underbridge Satellite construction compound	Works associated with the enabling works, Hunts Green underbridge, demolition and archaeology
Bodymoor Heath Lane Overbridge Satellite construction compound	Works associated with the enabling works and Bodymoor Heath Lane Overbridge and earthworks
Church Lane Overbridge Satellite construction compound	Works associated with the enabling works, Church Lane overbridge, Tamworth Road highway works and environmental mitigation
A4091 Tamworth Road Overbridge Satellite construction compound	Works associated with the enabling works and, A4091 Tamworth road and earthworks
M6 Junction 4 Satellite construction compound	Works associated with the enabling works and M6 Junction 4 highway improvements

Compound name and location	Principal construction activities
A45/452 (Stonebridge Island)	Works associated with the enabling works and highway improvements at Stonebridge Island

2.60 Further details of each of the above compounds, any changes to the list, or any proposed new compounds, will be confirmed by the enabling works and main works civils contractors, for the section of the route within North Warwickshire.

### Roadheads and Material Transfer Stockpile Areas

2.61 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 North Warwickshire the following roadheads will be utilised:

- Lichfield Road Southbound Roadhead at land west of A446 Lichfield Road and Gorsey Lane and south of the Chattle Hill Box Structure.
- Birmingham Road Eastbound Roadhead at land west of the M42 / M6 Toll and north of B4114 Birmingham Road (near to the Birmingham Spur Dive-under).

- M6 Motorway Slip Road Roadhead at land between M42/M6 Toll and M6, slightly north of the M6 / A446 slip road.
- Faraday Avenue East and West Bound Roadhead at land either side of Faraday Avenue and east of the A446 Roundabout.

2.62 Additional temporary stockpile sites may be required during work on particular elements of the scheme in locations along the route. These sites will be adjacent to the works within the existing area of land required for the construction of the scheme.

## Demolition Works

2.63 The buildings that will need to be demolished within North Warwickshire are listed below.

**Table 3: Demolition works**

Demolition	Works associated with
Board Cottages and Coleshill Cottages	Water Orton No.3 Viaduct
The Homestead	Water Orton No.3 Viaduct
Old Saltleians Rugby Club	Water Orton No.3 Viaduct

Demolition	Works associated with
87 Attleboro Lane	Marsh Lane Embankment
62-76 Attleboro Lane	Marsh Lane Embankment
Water park Lodge, Wedgewood, Bella Vista & Chestnuts	River Tame East Viaduct
Mullensgrove Farm	River Tame East Viaduct
Cocksparrow Farm	Kingsbury Road Rail Head
Parklands Stud	Kingsbury Road Rail Head
Barn Covert	Kingsbury Road Rail Head
The Capitol Joinery	Coleshill No.3 Embankment
The Old Barn Guest House	Coleshill No.3 Embankment
Coleshill Hill Farm Barns (disused)	Coleshill No.3 Embankment
Garage in field adjoining Gilson hall	Gilson Cutting

Demolition	Works associated with
Coleshill Manor Office Building	Green Lane Embankment
Greenwoods Communications Limited	Watton House South Embankment
IAC Plant	Watton House South Embankment
Wastewater Treatment Works	Watton House North Embankment & River Tame West Viaduct
Dunton Hall Boarding Kennels	Curdworth Cutting
Outbuilding - Cuttle Mill Fishery	North Wood Embankment
Middleton House Farm	North Wood Embankment
Shed to west of A4091	North Wood Embankment

## Archaeology

2.64 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.

2.65 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).

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

- 2.66 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

- 3.1 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, 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 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

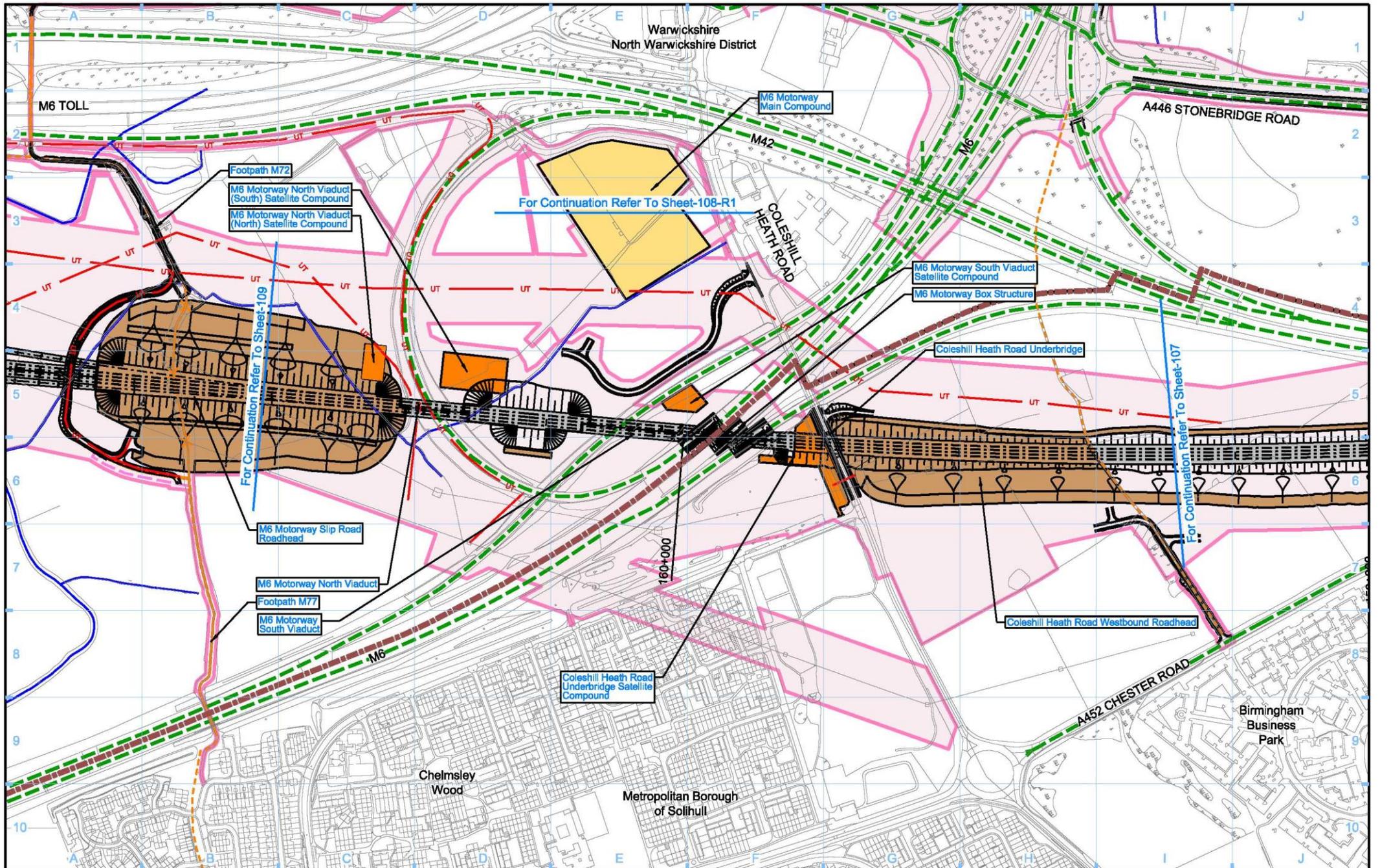
Request for Approval	2017 quarters				2018 quarters				2019 quarters				2020 quarters				2021 quarters				2022 quarters				2023 quarters				2024 quarters				2025 quarters				2026 quarters			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
A452/A446 roundabout and road works																																								
M6 Motorway box structure (partly in Solihull Metropolitan Borough) and M6 viaducts																																								
M6 Junction 4																																								
M6 Motorway north viaduct																																								
Coleshill East and West viaducts																																								
B4114 Birmingham Road underbridge																																								
Coleshill east, west and south viaducts																																								
M42 Coleshill box structures																																								







# 5 Planning Context Report Plans – Construction and Operation



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
	Temporary replacement community facility
	Planning authority 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
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-108**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council/Metropolitan Borough of Solihull

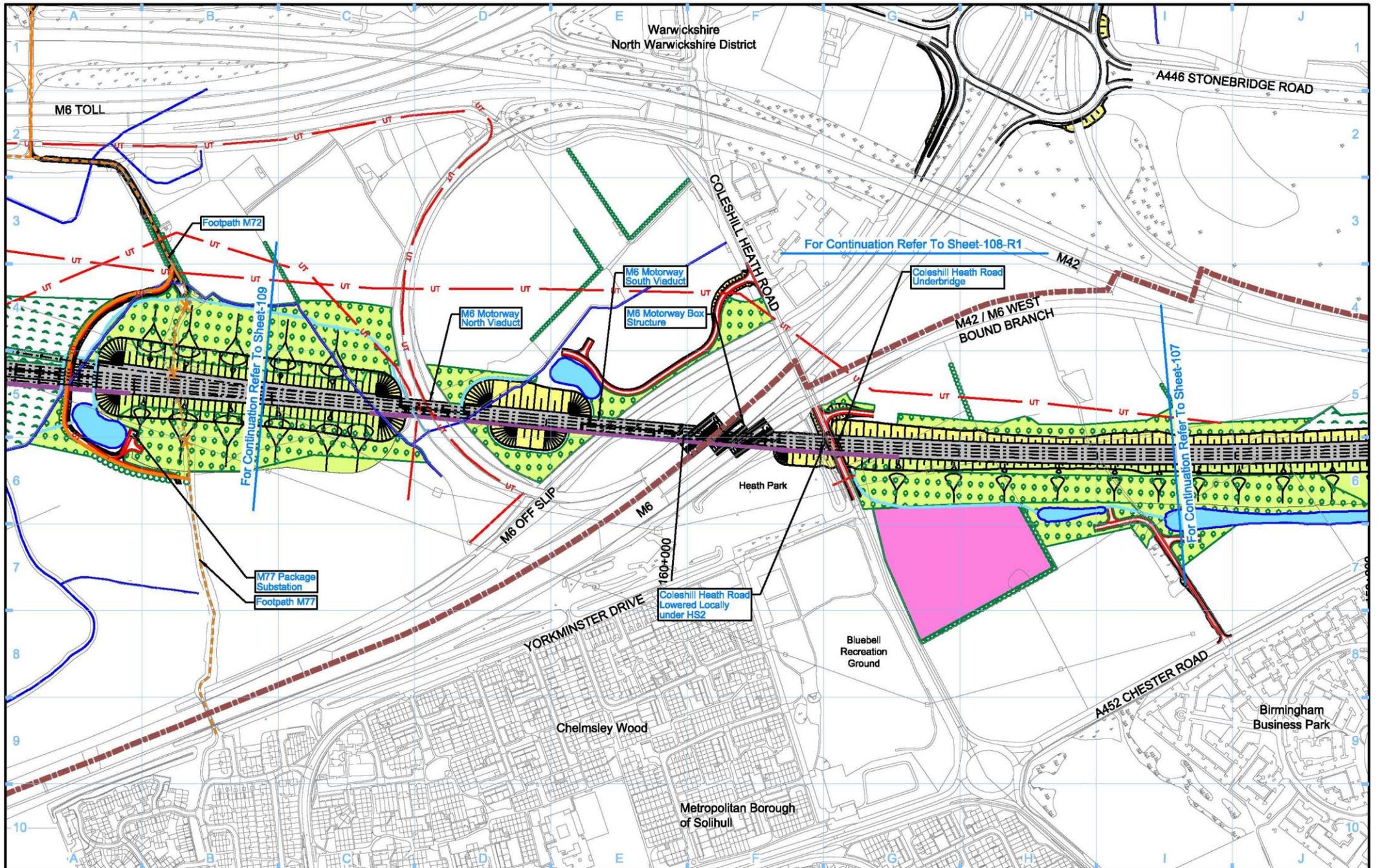
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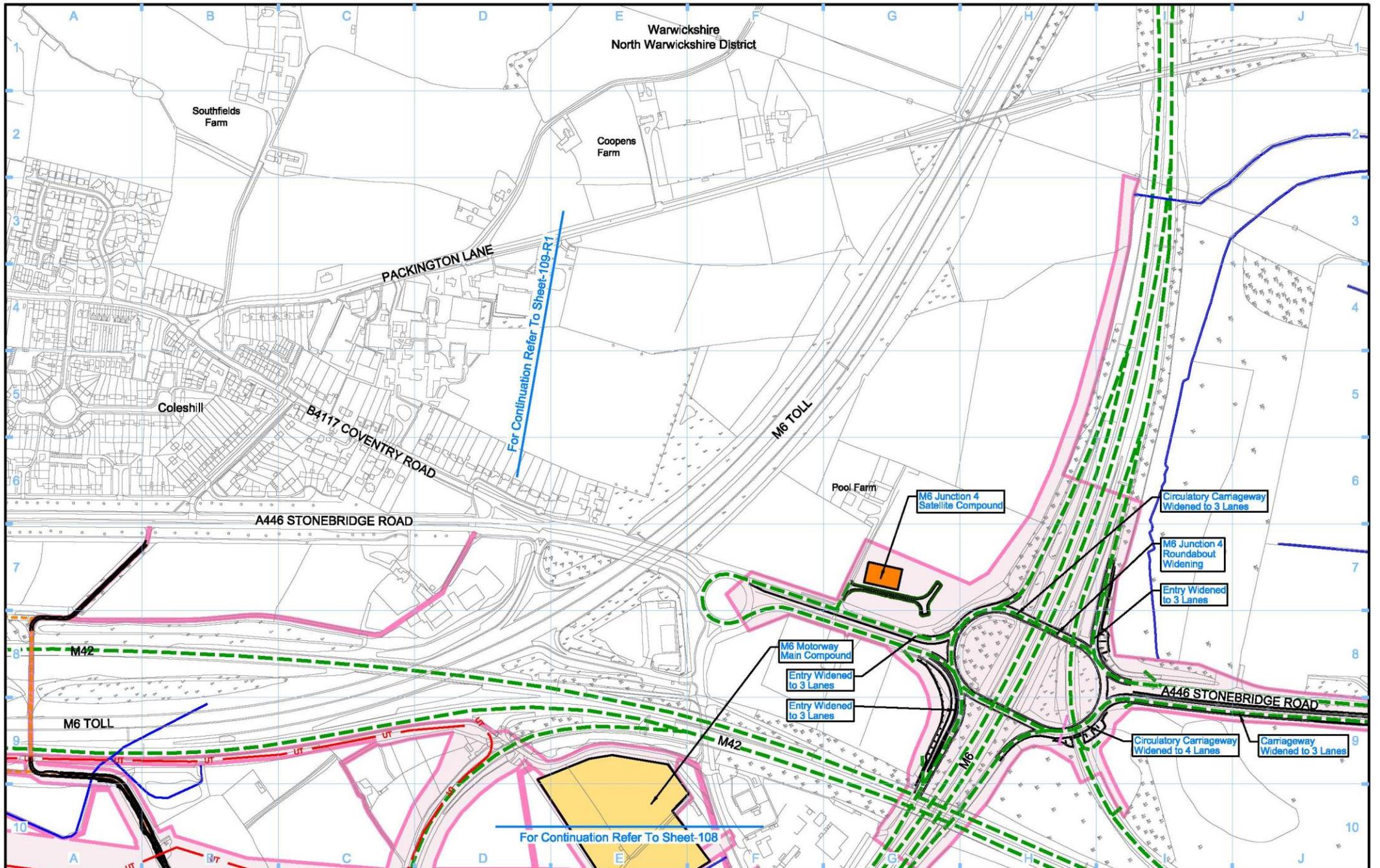
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Doc Number: C223-HS2-TP-DPL-030-521700 P00.1 Date:



<b>Legend</b> <ul style="list-style-type: none"> <li>Depot, station, headhouse or portal building</li> <li>Tunnel portal</li> <li>Electricity substation</li> <li>Land drainage area</li> <li>Ecological mitigation pond</li> <li>Balancing pond</li> <li>Replacement floodplain storage</li> <li>Woodland habitat creation</li> <li>Wetland habitat creation</li> <li>Grassland habitat creation</li> <li>Landscape mitigation planting (scrub / woodland)</li> <li>Grassed areas</li> <li>Sustainable placement</li> <li>Public realm/Replacement community facility</li> <li>Engineering earthworks</li> <li>Landscape earthworks</li> <li>Rail alignment formation</li> <li>Returned to suitable development use</li> <li>County boundary</li> <li>Borough / District boundary</li> <li>Planning authority boundary</li> <li>Watercourse diversion</li> <li>Existing watercourse</li> <li>Ditches - new</li> <li>Hedgerow habitat creation</li> <li>Main utility works</li> <li>Existing public right of way (PRoW)</li> <li>New, diverted or realigned PRoW</li> <li>Stopped-up PRoW</li> <li>Tunnels external extent</li> <li>Rail alignment</li> <li>HS2 Access road</li> <li>Noise fence barrier</li> <li>Chainage (e.g. 10+000)</li> </ul>		<b>Map Number</b> <b>S17-OP-108</b> <b>Operational Phase</b> <b>Sch 17 Planning Context Report Plan</b> <b>Map Name</b> Planning Authority Area: North Warwickshire Borough Council / Metropolitan Borough of Solihull	 Registered in England. Registration number 06791895 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA Scale at A3: 1:5,000 0 50 100 150 200 250 Metres © Crown copyright and database rights 2017 Ordnance Survey. Licence Number 100049160 Doc Number: C223-HS2-TP-DPL-030-621700 P00.1 Date:
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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
	Temporary replacement community facility
	Planning authority 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
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-108-R1**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council

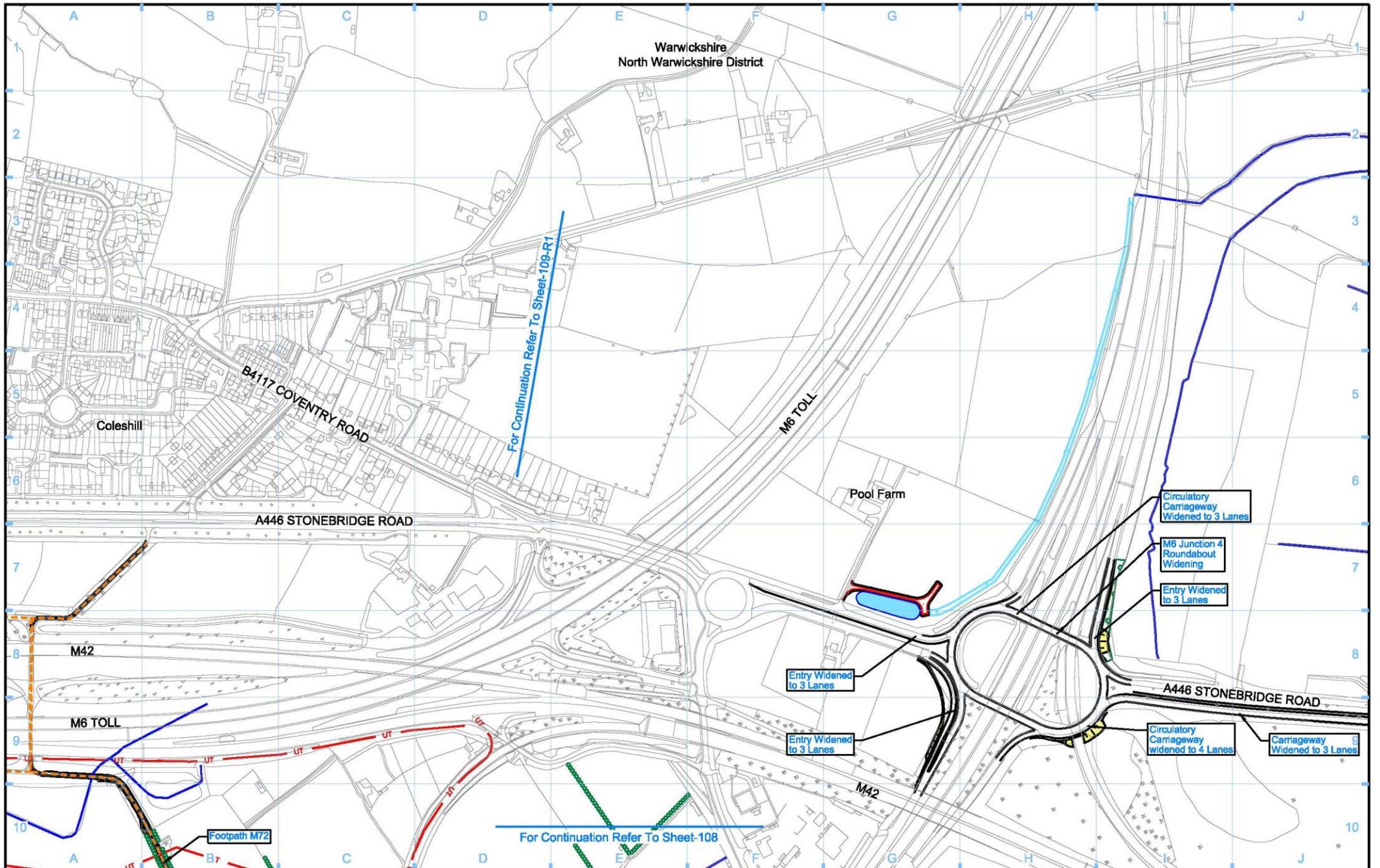
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Legend	
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	Tunnel portal
	Electricity substation
	Land drainage area
	Ecological mitigation pond
	Balancing pond
	Replacement floodplain storage
	Woodland habitat creation
	Wetland habitat creation
	Grassland habitat creation
	Landscape mitigation planting (scrub / woodland)
	Grassed areas
	Sustainable placement
	Public realm/Replacement community facility
	Engineering earthworks
	Landscape earthworks
	Rail alignment formation
	Returned to suitable development use
	County boundary
	Borough / District boundary
	Planning authority 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  
**S17-OP-108-R1**

Map Name  
**Operational Phase  
Sch 17 Planning Context Report Plan**

Planning Authority Area  
North Warwickshire Borough Council

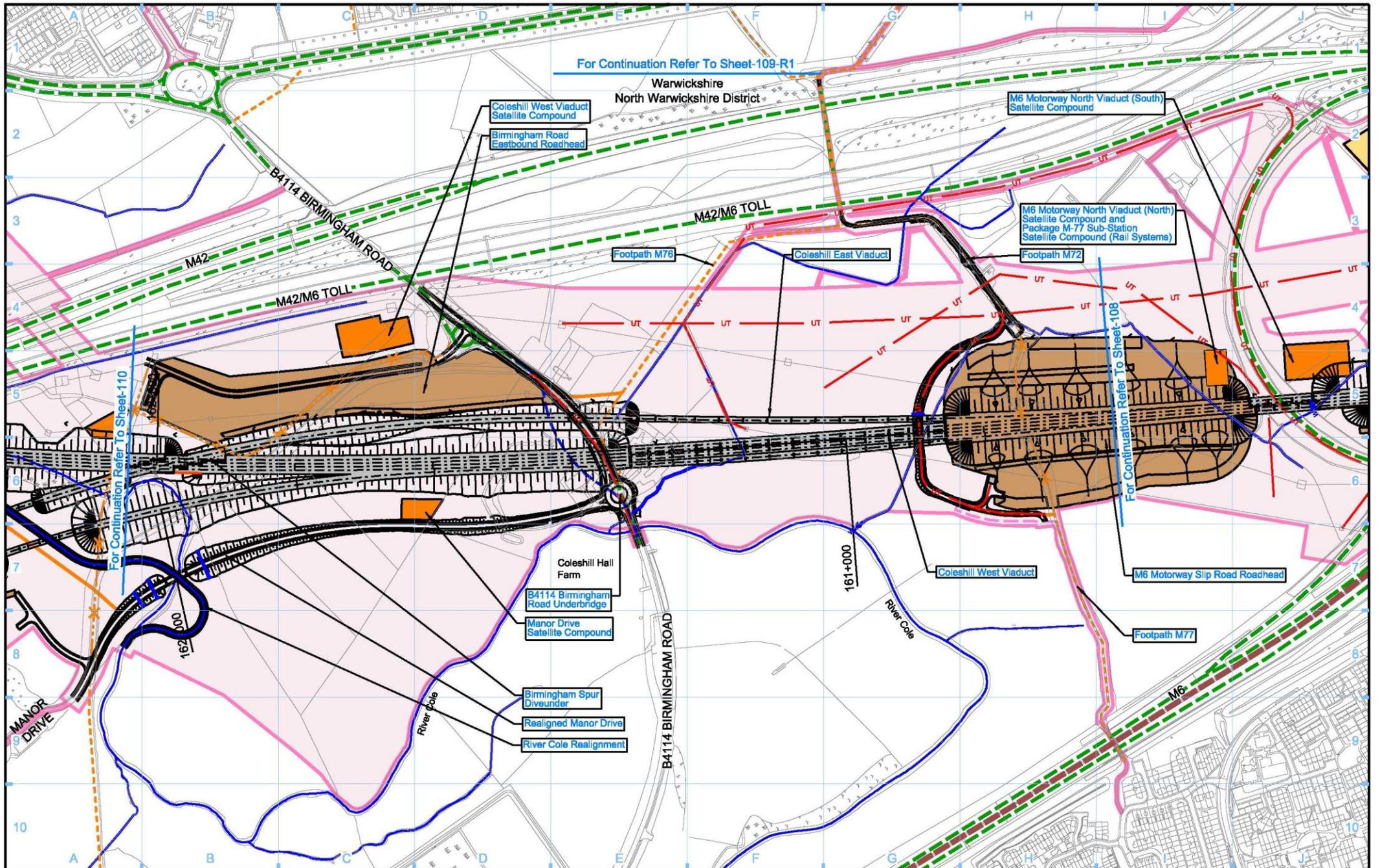
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Doc Number: C223-HS2-TP-DPL-030-621701 P00.1 Date:



For Continuation Refer To Sheet-109-R1

Warwickshire  
North Warwickshire District

M6 Motorway North Viaduct (South Satellite Compound)

Coleshill West Viaduct Satellite Compound

Birmingham Road Eastbound Roadhead

M6 Motorway North Viaduct (North Satellite Compound and Package M-77 Sub-Station Satellite Compound (Rail Systems))

Footpath M76

Coleshill East Viaduct

Footpath M72

For Continuation Refer To Sheet-110

For Continuation Refer To Sheet-108

Coleshill Hall Farm

B4114 Birmingham Road Underbridge

Manor Drive Satellite Compound

Birmingham Spur Driveunder

Realigned Manor Drive

River Cole Realignment

161+000

River Cole

Coleshill West Viaduct

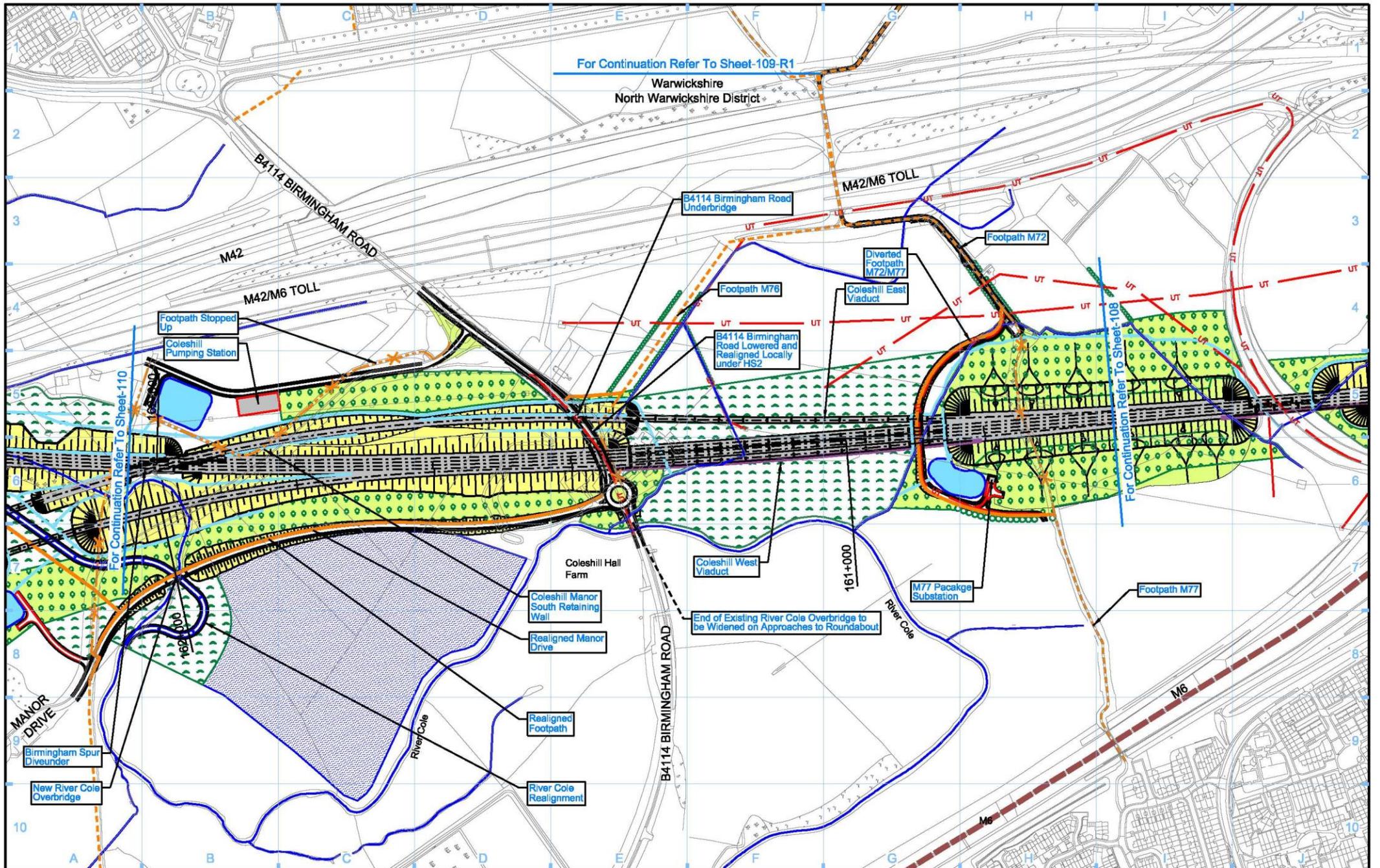
M6 Motorway Slip Road Roadhead

Footpath M77

B4114 BIRMINGHAM ROAD

M6

<b>Legend</b> 		<b>Map Number</b> <p><b>S17-CP-109</b></p>		<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation of it as issued in part or issued in whole in any way.</p> <p>Registered in England. Registration number 06791895 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250 Metres</p> <p>© Crown copyright and database rights 2017 Ordnance Survey. Licence Number 100049160</p> <p>Doc Number: C223-HS2-TP-DPL-030-521900 P00.1 Date:</p>
<b>Map Name</b> <p><b>Construction Phase Sch 17 Planning Context Report Plan</b></p>		<b>Planning Authority Area:</b> <p>North Warwickshire Borough Council/Metropolitan Borough of Solihull</p>		



For Continuation Refer To Sheet-109-R1

Warwickshire  
North Warwickshire District

For Continuation Refer To Sheet-108

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/Replacement community facility
	Engineering earthworks
	Landscape earthworks
	Rail alignment formation
	Returned to suitable development use
	County boundary
	Borough / District boundary
	Planning authority boundary
	Watercourse diversion
	Existing watercourse
	Ditches - new
	Hedgerow habitat creation
	Main utility works
	Existing public right of way (PRoW)
	New, diverted or realigned PRoW
	Tunnels external extent
	Rail alignment
	HS2 Access road
	Noise fence barrier
	Chainage (e.g. 10+000)
	Stopped-up PRoW

Map Number: **S17-OP-109**

Map Name: **Operational Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council / Metropolitan Borough of Solihull

**hs2**

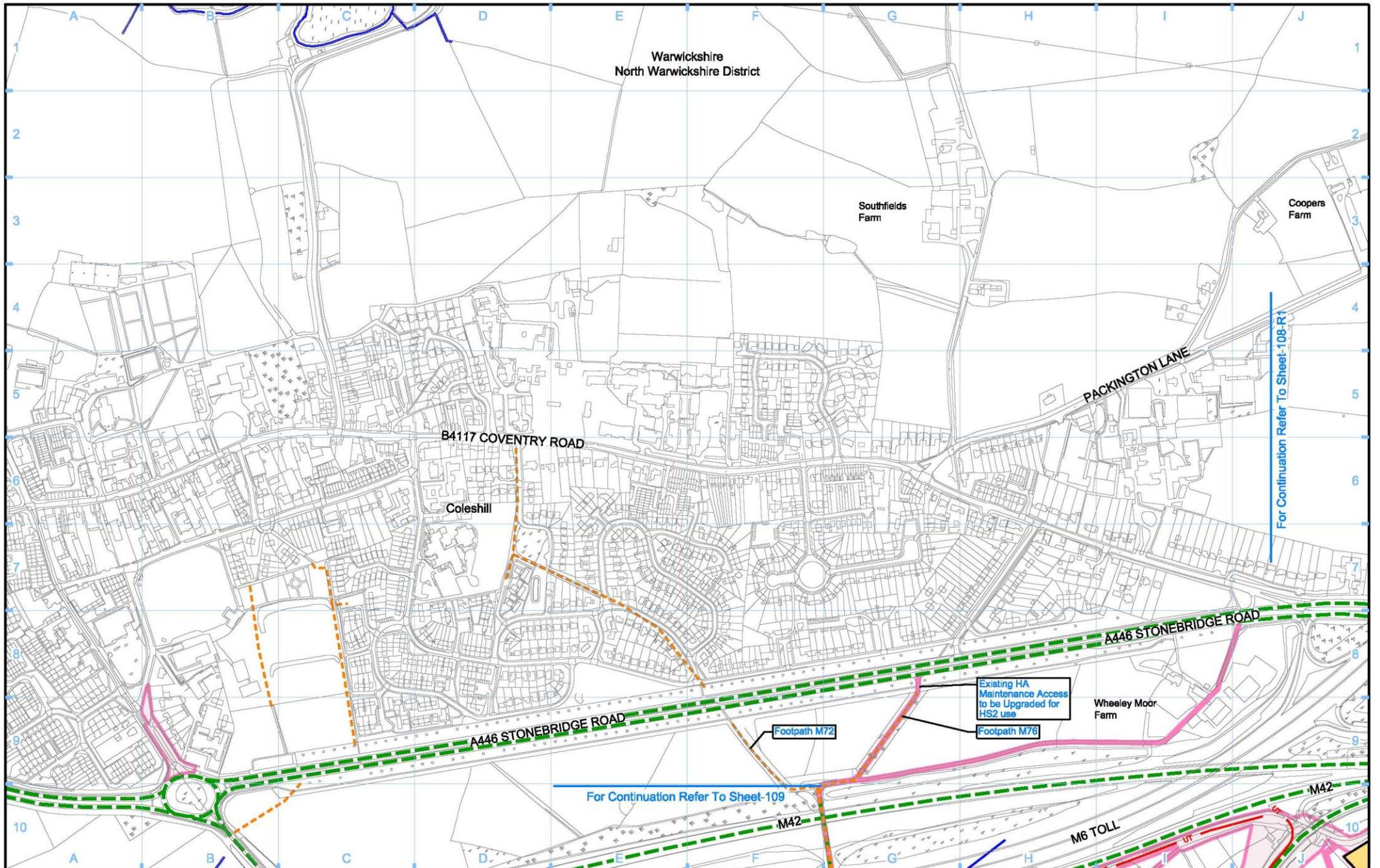
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Doc Number: C223-HS2-TP-DPL-030-621900 P00.1 Date:



**Legend**

	Depot, station, headhouse or portal building		Rail alignment formation
	Tunnel portal		Landscape earthworks
	Main construction compound		Engineering earthworks
	Satellite construction compound		County boundary
	Temporary material stockpile		Borough / District boundary
	Land potentially required during construction		Existing watercourse
	Temporary replacement community facility		Tunnels external extent
	Planning authority boundary		Construction traffic route
	Existing watercourse		Temporary PRoW diversion / realignment
	Tunnels external extent		Temporary highway diversion / realignment
	Construction traffic route		Existing public right of way (PRoW)
	Temporary highway diversion / realignment		UT - Main utility works
	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

	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-109-R1**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council

**hs2**

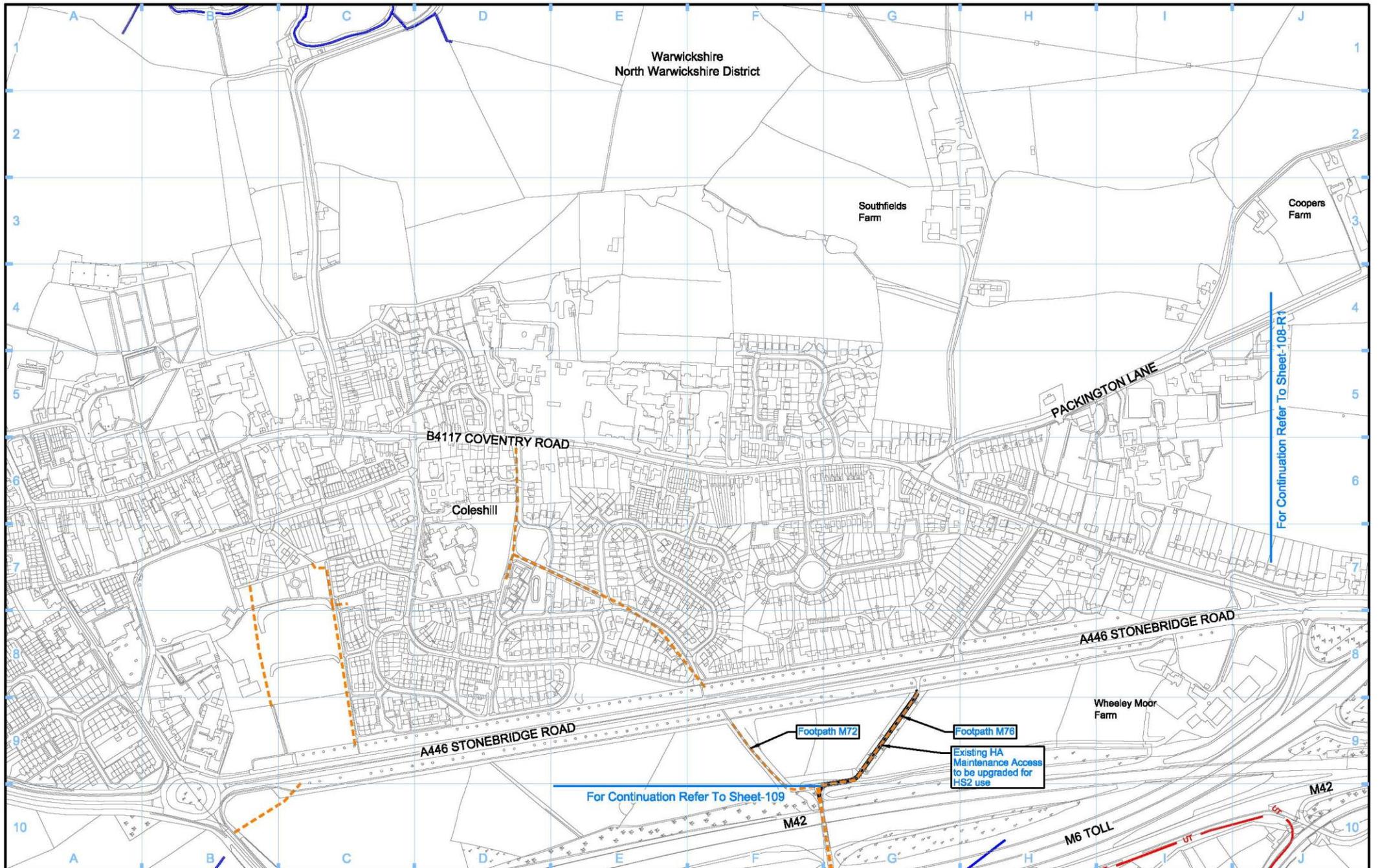
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Doc Number: C223-HS2-TP-DPL-030-521901

P00.1 Date:



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

Map Number  
**S17-OP-109-R1**

Map Name  
**Operational Phase  
Sch 17 Planning Context Report Plan**

Planning Authority Area  
North Warwickshire Borough Council

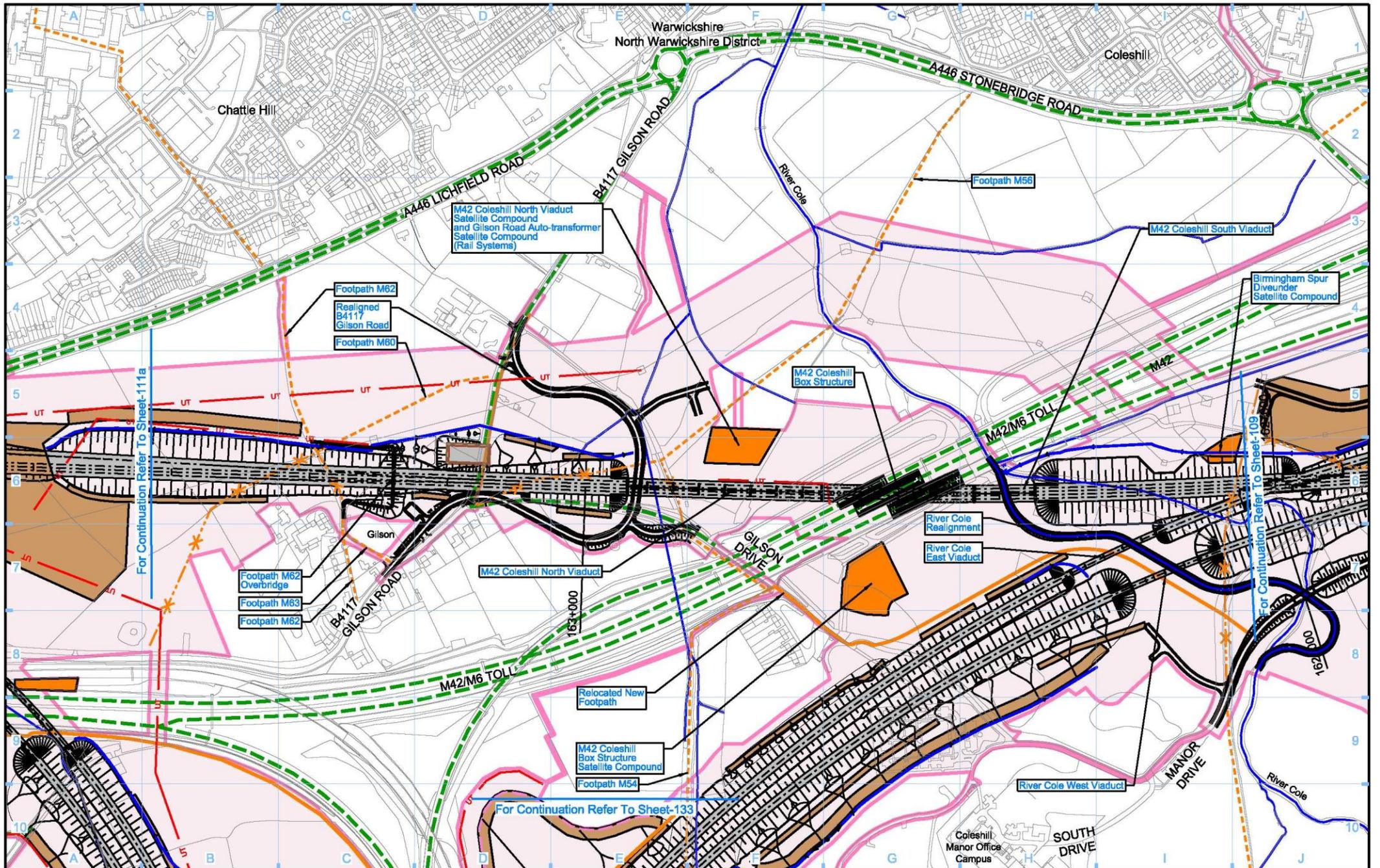
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compound
	Satellite construction compound
	Temporary material stockpile
	Rail alignment formation
	Landscape earthworks
	Engineering earthworks
	County boundary
	Borough / District boundary
	Land potentially required during construction
	Temporary replacement community facility
	Planning authority 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
	Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-110**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council

**hs2**

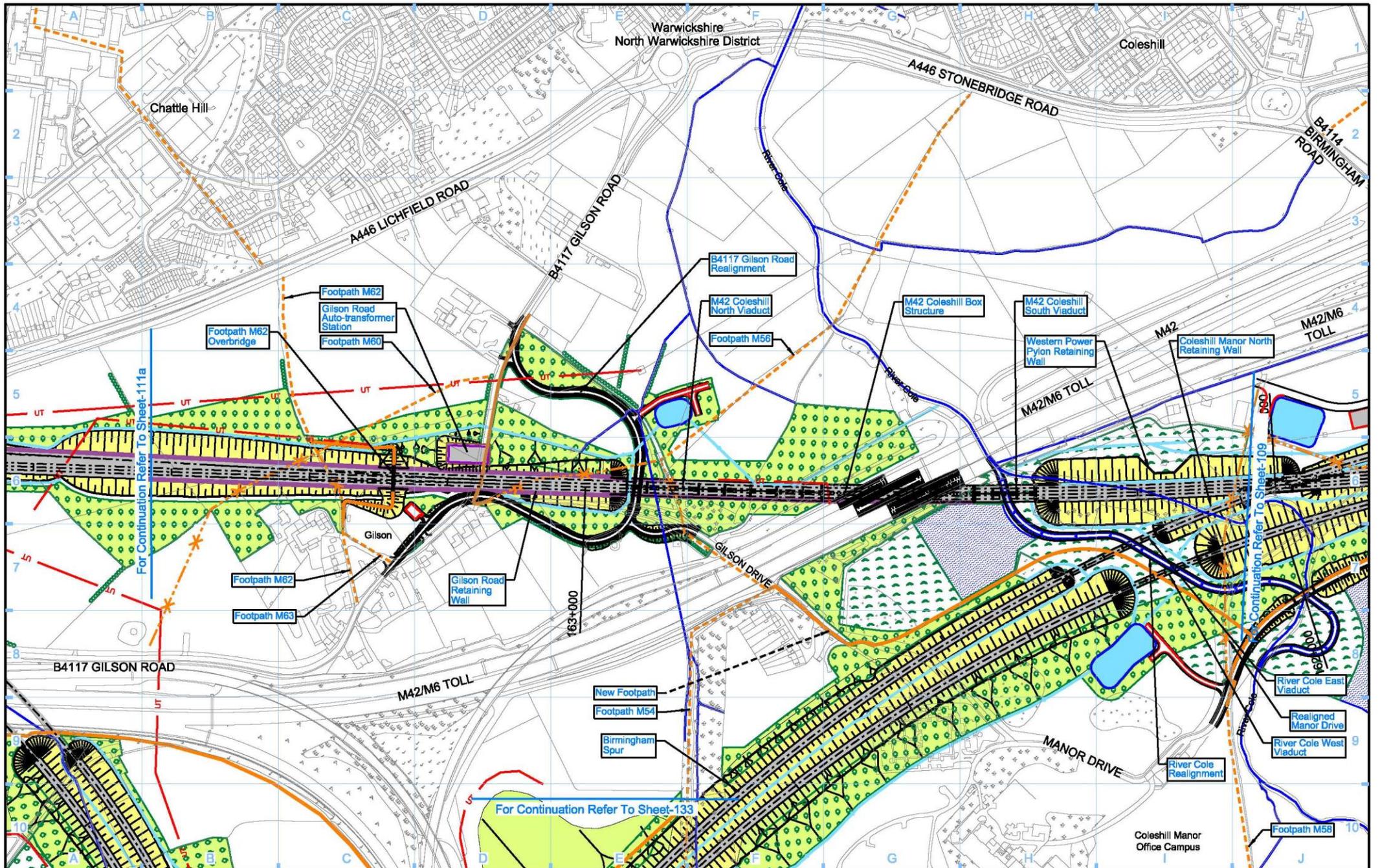
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Doc Number: C223-HS2-TP-DPL-030-522100 P00.1 Date:



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/Replacement community facility
	Engineering earthworks
	Landscape earthworks
	Rail alignment formation
	Returned to suitable development use
	County boundary
	Borough / District 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  
**S17-OP-110**

Map Name  
**Operational Phase  
Sch 17 Planning Context Report Plan**

Planning Authority Area  
North Warwickshire Borough Council

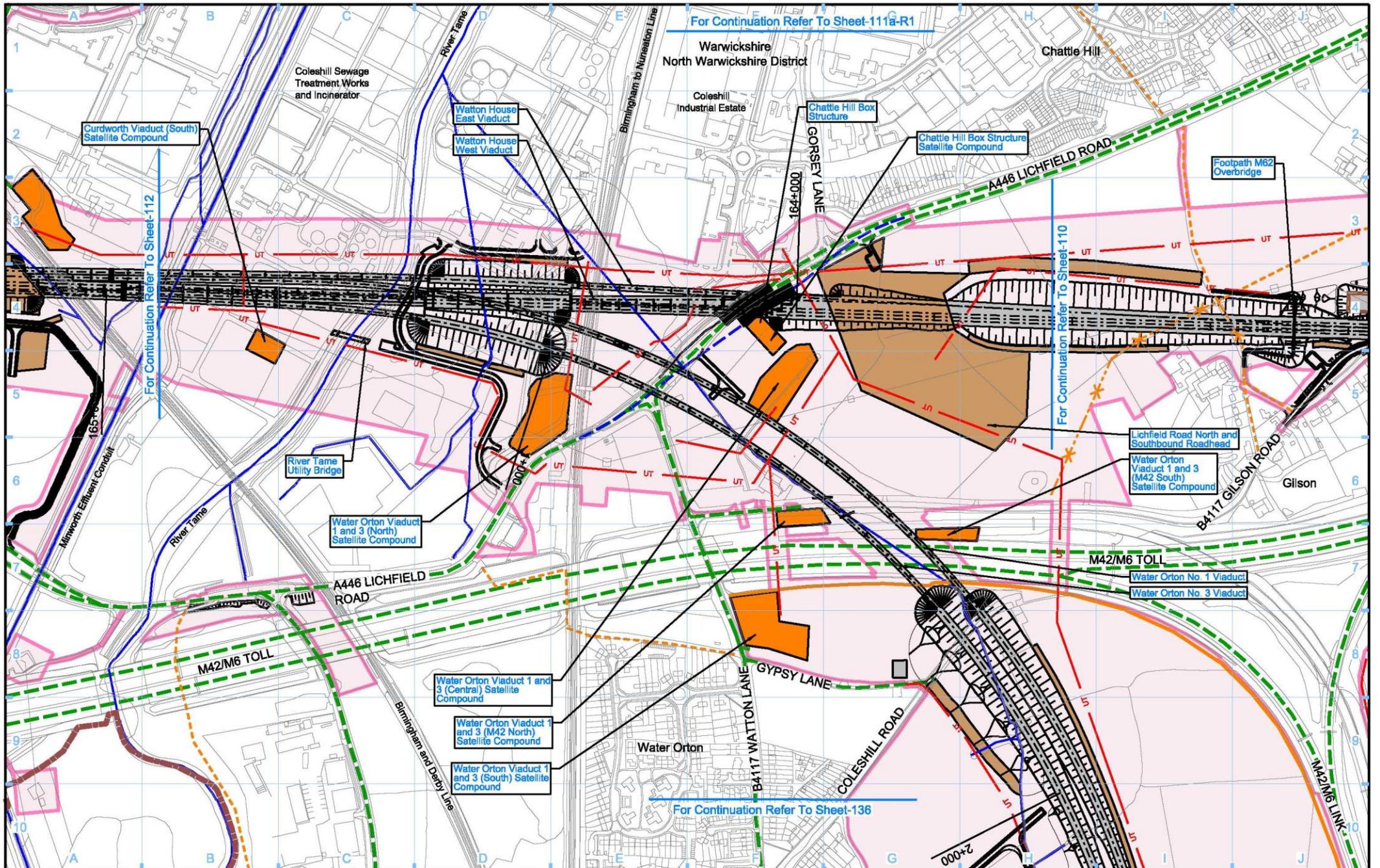
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compound
	Satellite construction compound
	Temporary material stockpile
	Rail alignment formation
	Landscape earthworks
	Engineering earthworks
	County boundary
	Borough / District boundary
	Land potentially required during construction
	Temporary replacement community facility
	Planning authority 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
	Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-111a**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council / Birmingham Metropolitan District

**hs2**

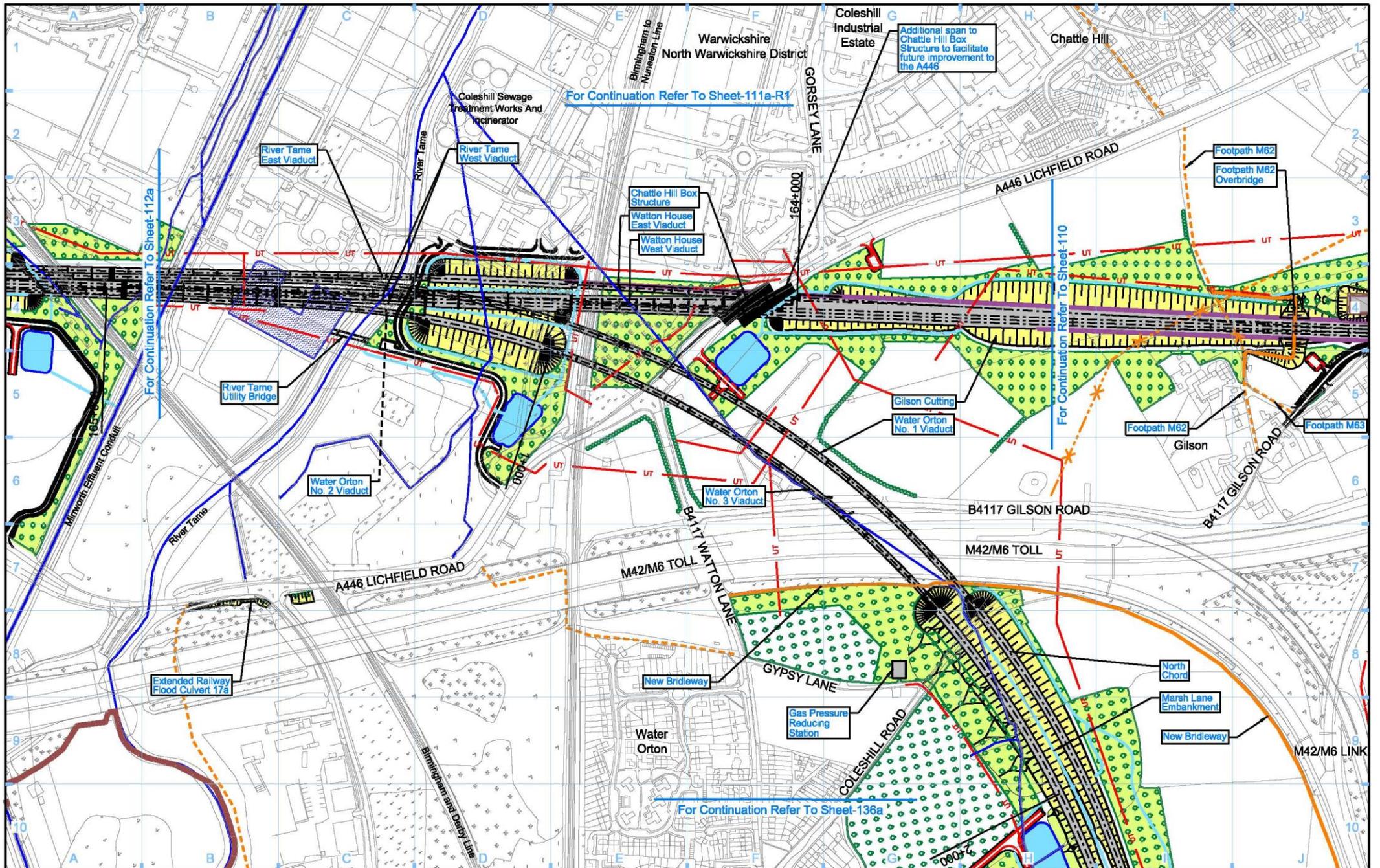
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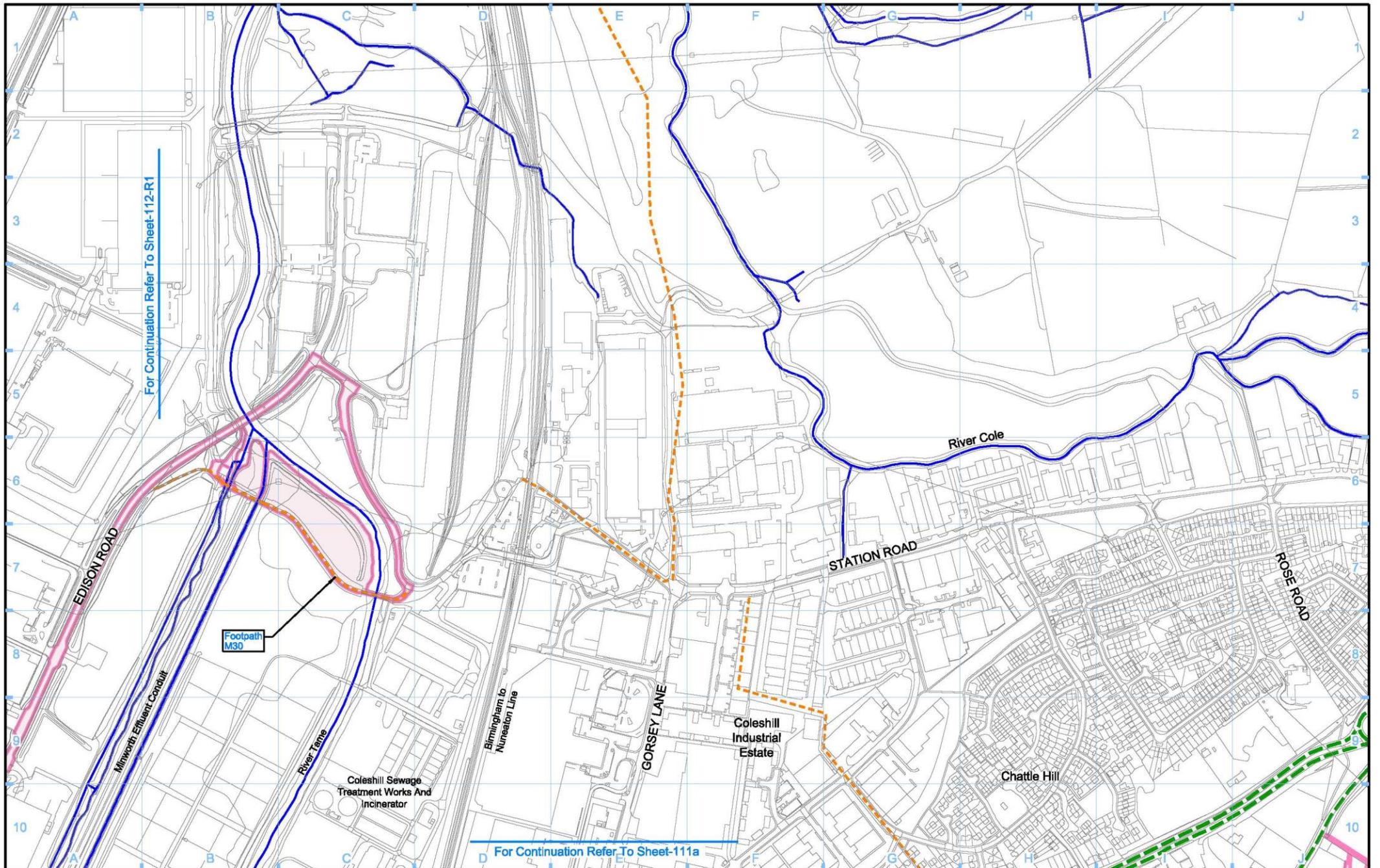
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For Continuation Refer To Sheet-112-R1

For Continuation Refer To Sheet-111a

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
	Temporary replacement community facility
	Planning authority boundary
	Existing watercourse
	Tunnels external extent
	Construction traffic route
	Land potentially required during construction
	New, diverted or realigned PRoW
	Stopped-up PRoW
	Temporary PRoW diversion / realignment
	Temporary highway diversion / realignment
	Rail alignment
	UT - Main utility works

Map Number: **S17-CP-111a-R1**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council

**hs2**

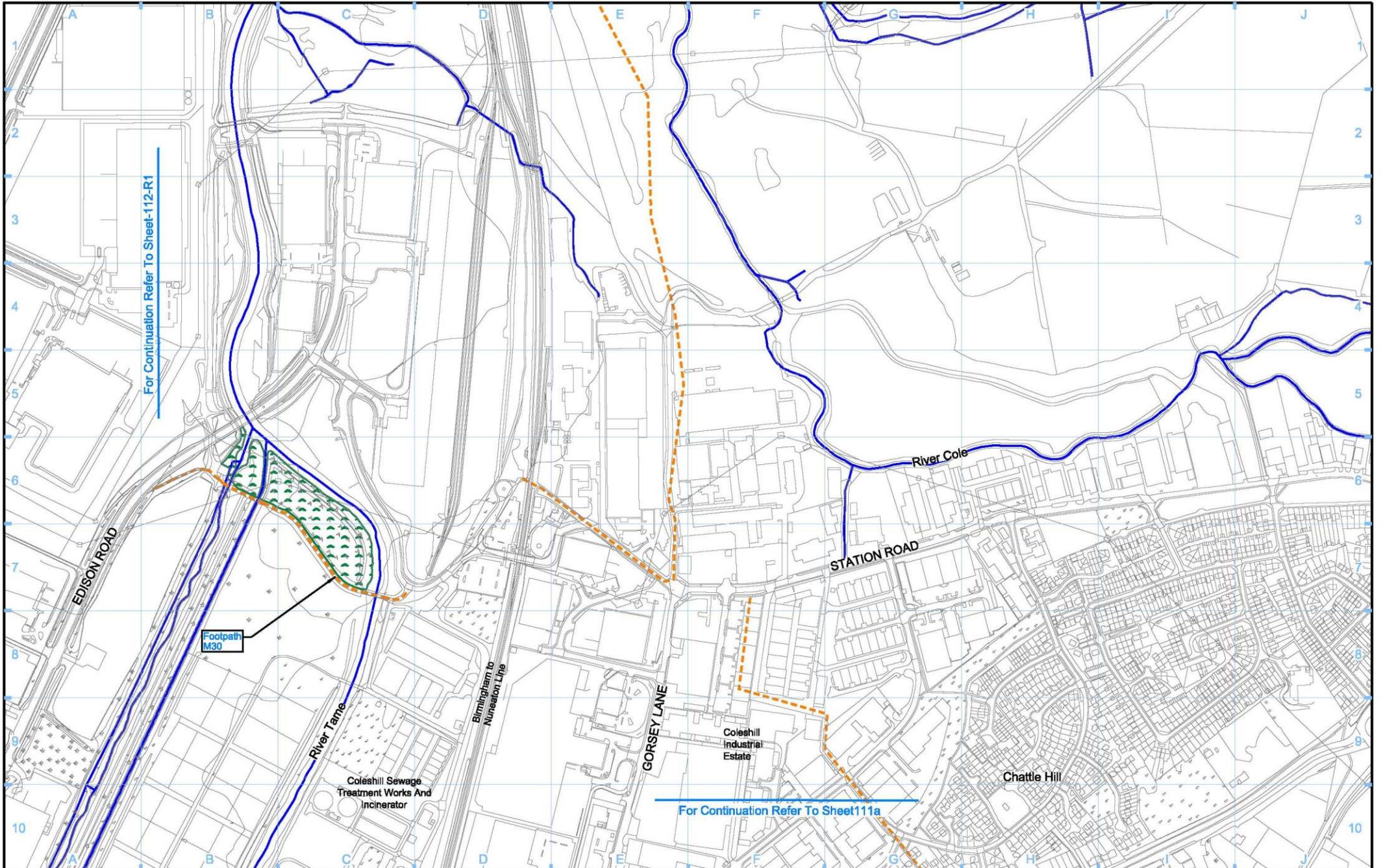
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- Legend**
- Depot, station, headhouse or portal building
  - Tunnel portal
  - Electricity substation
  - Land drainage area

- Replacement floodplain storage
- Woodland habitat creation
- Wetland habitat creation
- Grassland habitat creation
- Landscape mitigation planting (scrub / woodland)

- Public realm/Replacement community facility
- Engineering earthworks
- Landscape earthworks
- Rail alignment formation
- Returned to suitable development use

- Planning authority boundary
- Watercourse diversion
- Existing watercourse
- Ditches - new
- Hedgerow habitat creation
- Main utility works
- Existing public right of way

- Stopped-up PRoW
- Tunnels external extent
- Rail alignment
- HS2 Access road
- Noise fence barrier
- Chainage

Map Number: **S17-OP-111a-R1**

Map Name: **Operational Phase Sch 17 Planning Context Report Plan**

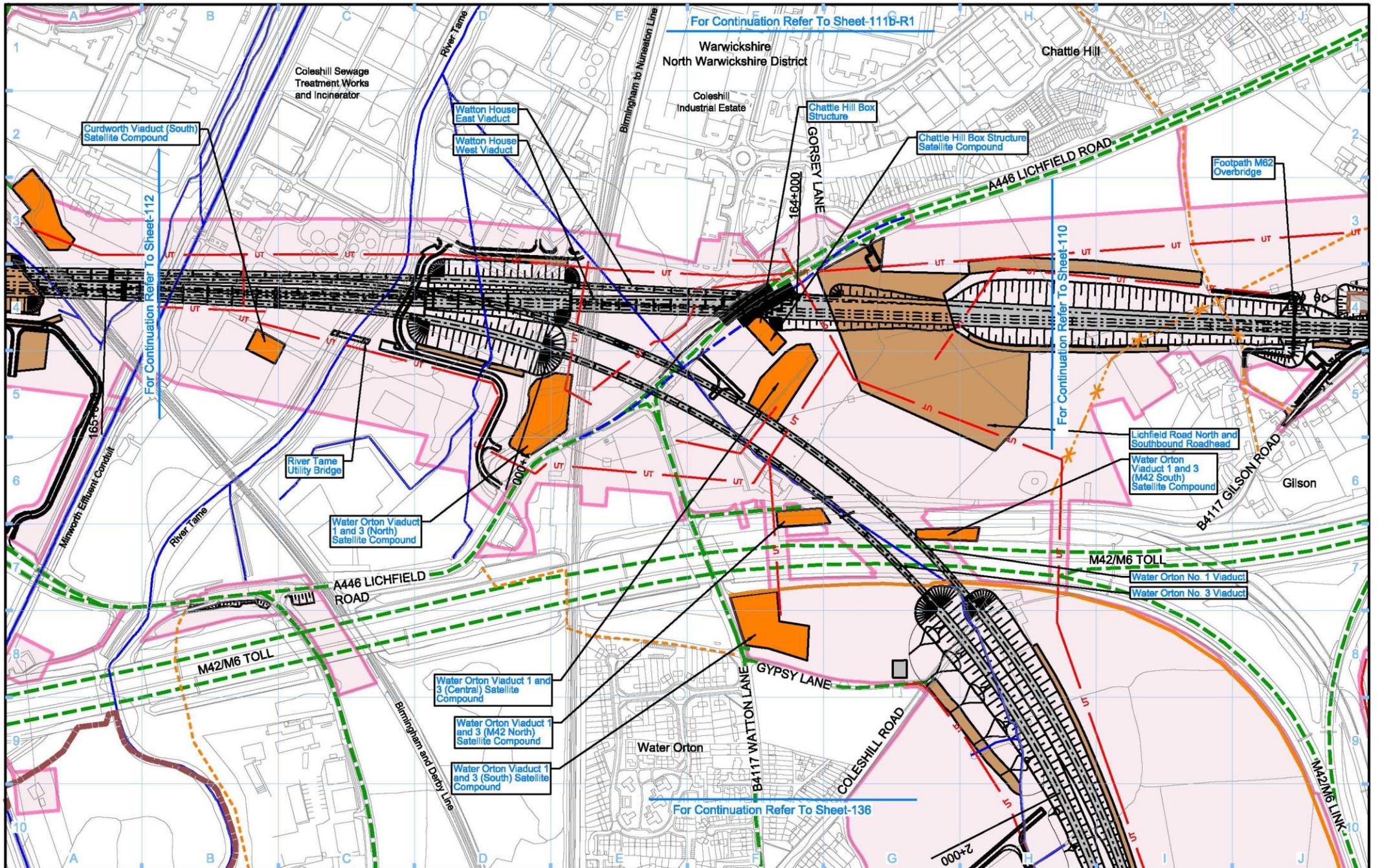
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compound
	Satellite construction compound
	Temporary material stockpile
	Rail alignment formation
	Landscape earthworks
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	Temporary replacement community facility
	Planning authority 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
	Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-111b**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council / Birmingham Metropolitan District

**hs2**

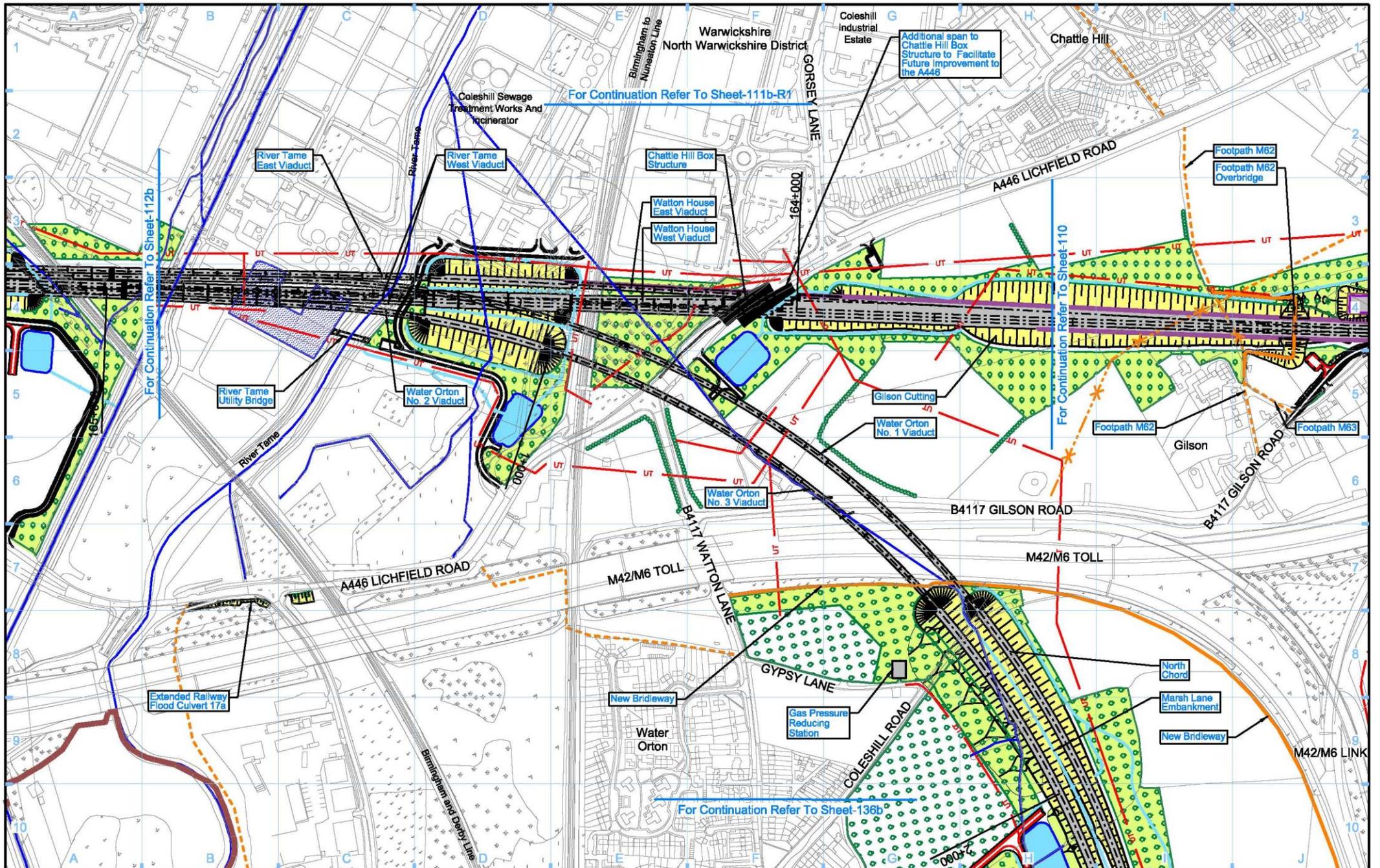
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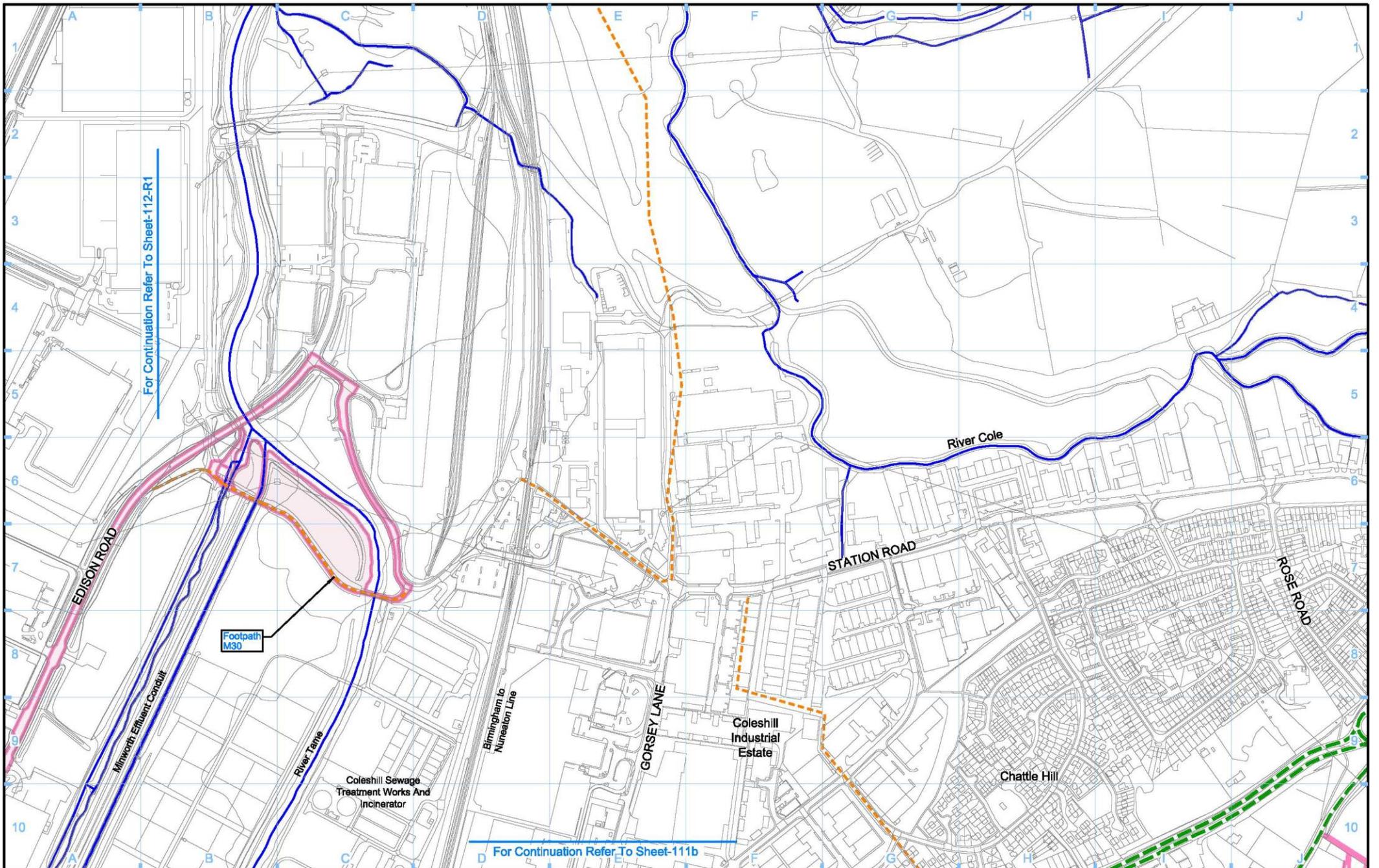
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<b>Legend</b> <ul style="list-style-type: none"> <li>Depot, station, headhouse or portal building</li> <li>Tunnel portal</li> <li>Electricity substation</li> <li>Land drainage area</li> <li>Ecological mitigation pond</li> <li>Balancing pond</li> </ul>		<ul style="list-style-type: none"> <li>Replacement floodplain storage</li> <li>Woodland habitat creation</li> <li>Wetland habitat creation</li> <li>Grassland habitat creation</li> <li>Landscape mitigation planting (scrub / woodland)</li> <li>Grassed areas</li> <li>Sustainable placement</li> </ul>		<ul style="list-style-type: none"> <li>Public realm/Replacement community facility</li> <li>Engineering earthworks</li> <li>Landscape earthworks</li> <li>Rail alignment formation</li> <li>Returned to suitable development use</li> <li>County boundary</li> <li>Borough / District boundary</li> </ul>		<ul style="list-style-type: none"> <li>Planning authority boundary</li> <li>Watercourse diversion</li> <li>Existing watercourse</li> <li>Ditches - new</li> <li>Hedgerow habitat creation</li> <li>Main utility works</li> <li>Existing public right of way (PRoW)</li> <li>New, diverted or realigned PRoW</li> </ul>		<ul style="list-style-type: none"> <li>Stopped-up PRoW</li> <li>Tunnels external extent</li> <li>Rail alignment</li> <li>HS2 Access road</li> <li>Noise fence barrier</li> <li>Chainage (e.g. 10+000)</li> </ul>		<b>Map Number</b> <b>S17-OP-111b</b> <b>Operational Phase</b> <b>Sch 17 Planning Context Report Plan</b> <b>Map Name</b> <b>Planning Authority Area:</b> North Warwickshire Borough Council / Birmingham Metropolitan District		<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791895          Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA</p> <p>© Crown copyright and database rights 2017          Ordnance Survey Licence Number 100049160</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250          Metres</p> <p>Doc Number: C223-HS2-TP-DPL-030-622310 P00.1 Date:</p>	
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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
	Temporary replacement community facility
	Planning authority 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
	Chainage (e.g. 10+000)
	Rail alignment

Map Number  
**S17-CP-111b-R1**

Map Name  
**Construction Phase  
Sch 17 Planning Context Report Plan**

Planning Authority Area  
North Warwickshire Borough Council

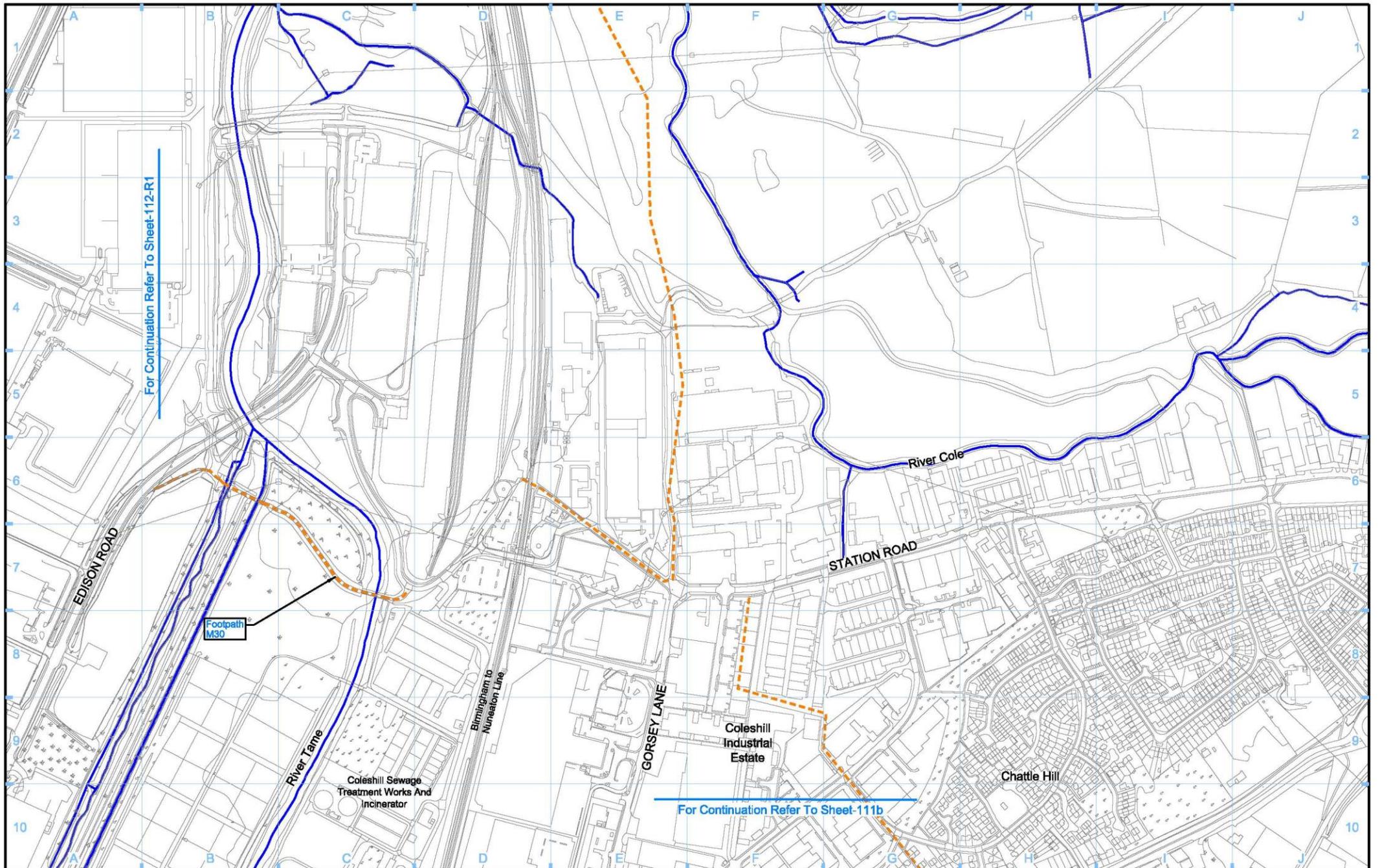
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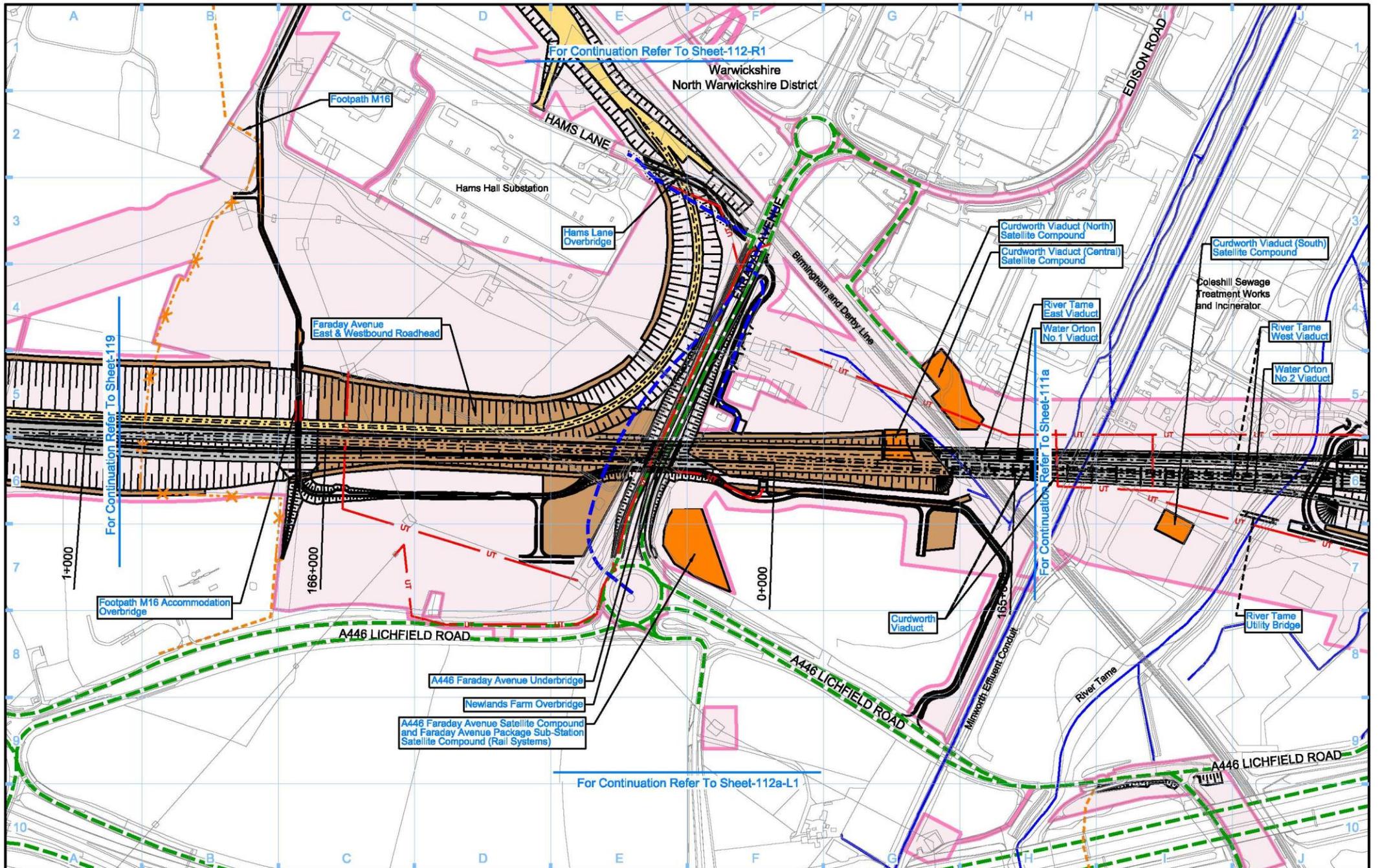
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Doc Number: C223-HS2-TP-DPL-030-522311 P00.1 Date:



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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
	Temporary replacement community facility
	Planning authority 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
	Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-112a**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council

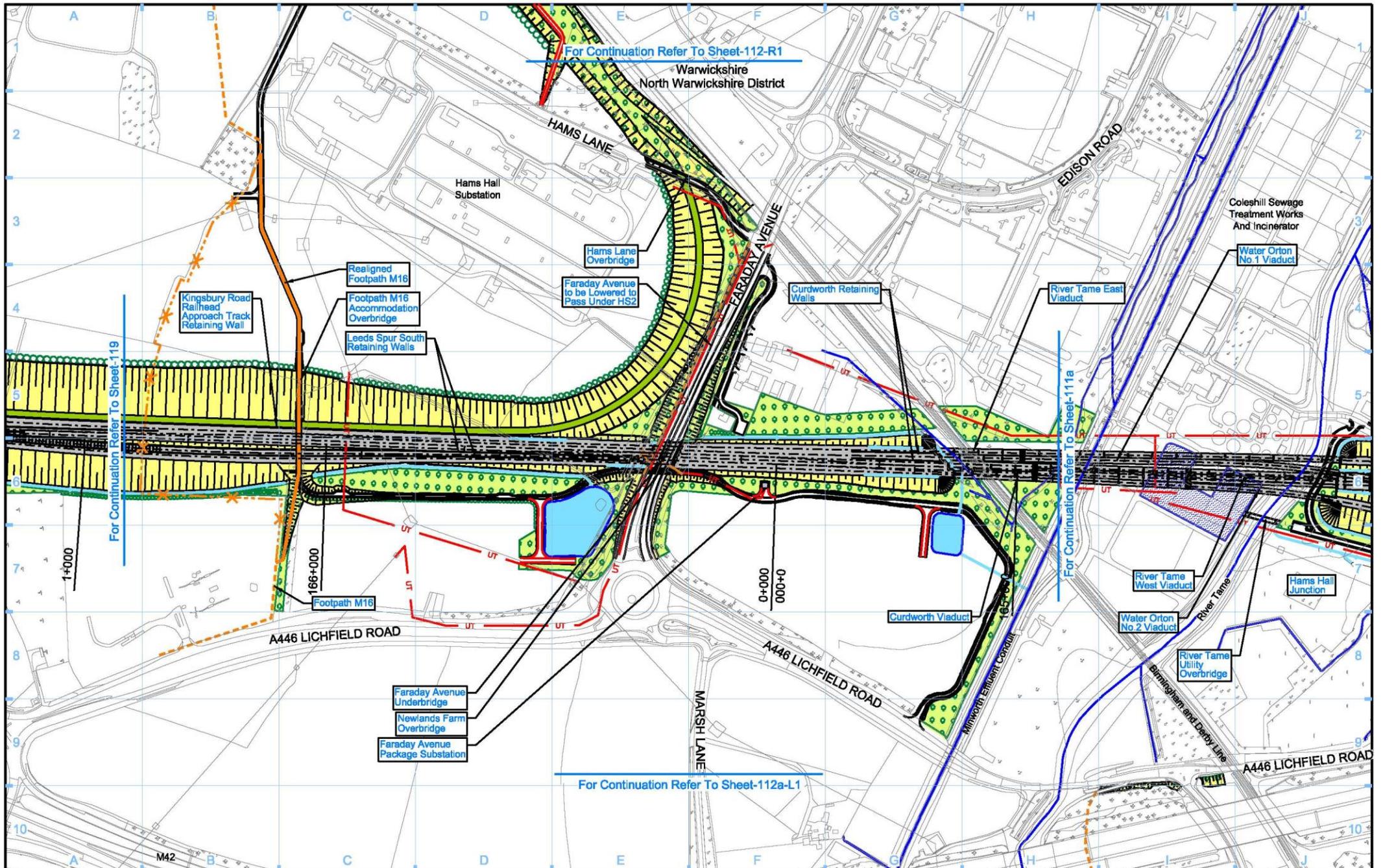
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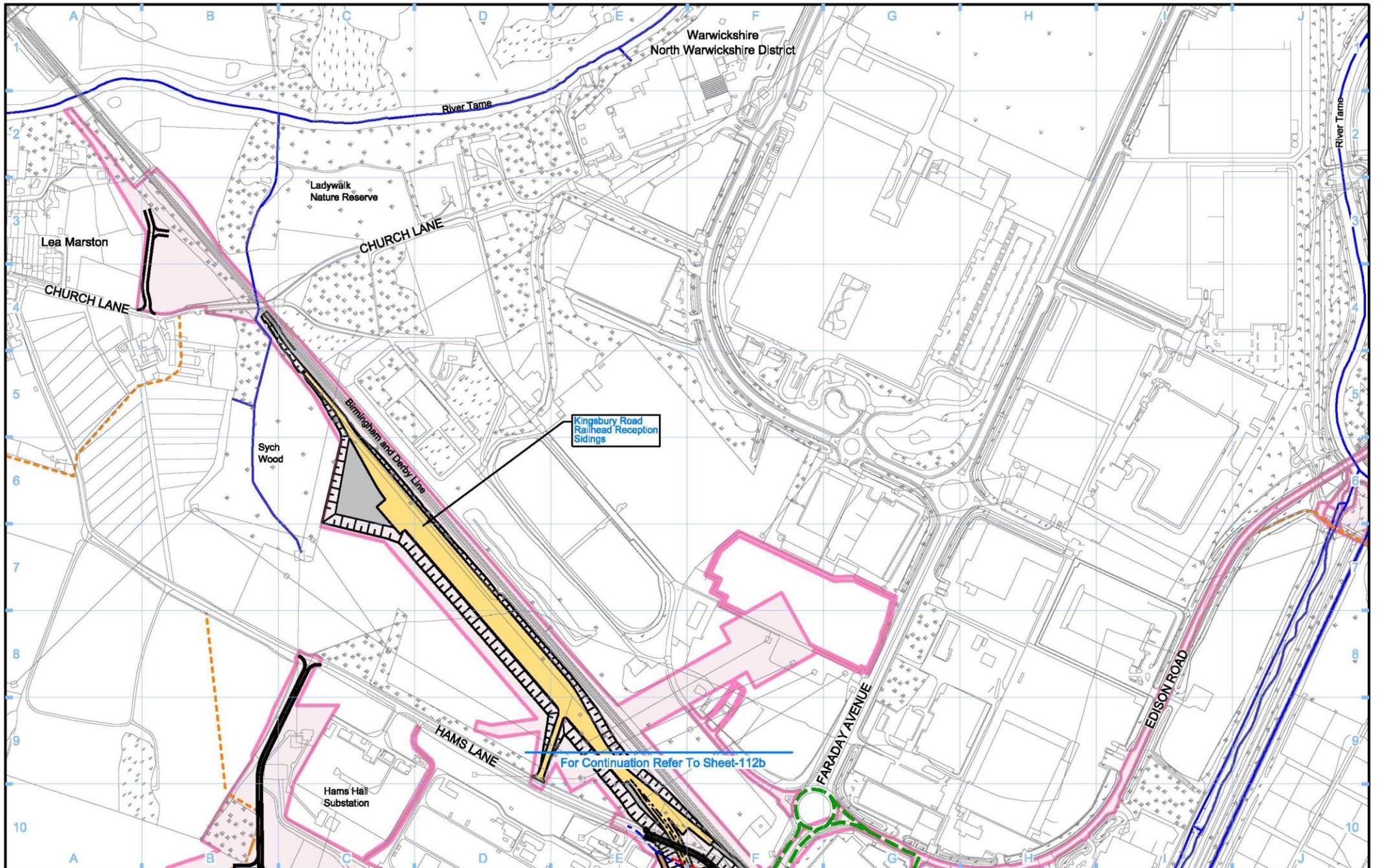
Warwickshire  
North Warwickshire District

For Continuation Refer To Sheet-111a

For Continuation Refer To Sheet-112a-L1

Legend	
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	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/Replacement community facility
	Engineering earthworks
	Landscape earthworks
	Rail alignment formation
	Returned to suitable development use
	County boundary
	Borough / District boundary
	Planning authority 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	<b>S17-OP-112a</b>
Map Name	<b>Operational Phase Sch 17 Planning Context Report Plan</b>
Planning Authority Area	North Warwickshire Borough Council
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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
	Temporary replacement community facility
	Planning authority 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
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-112-R1**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council

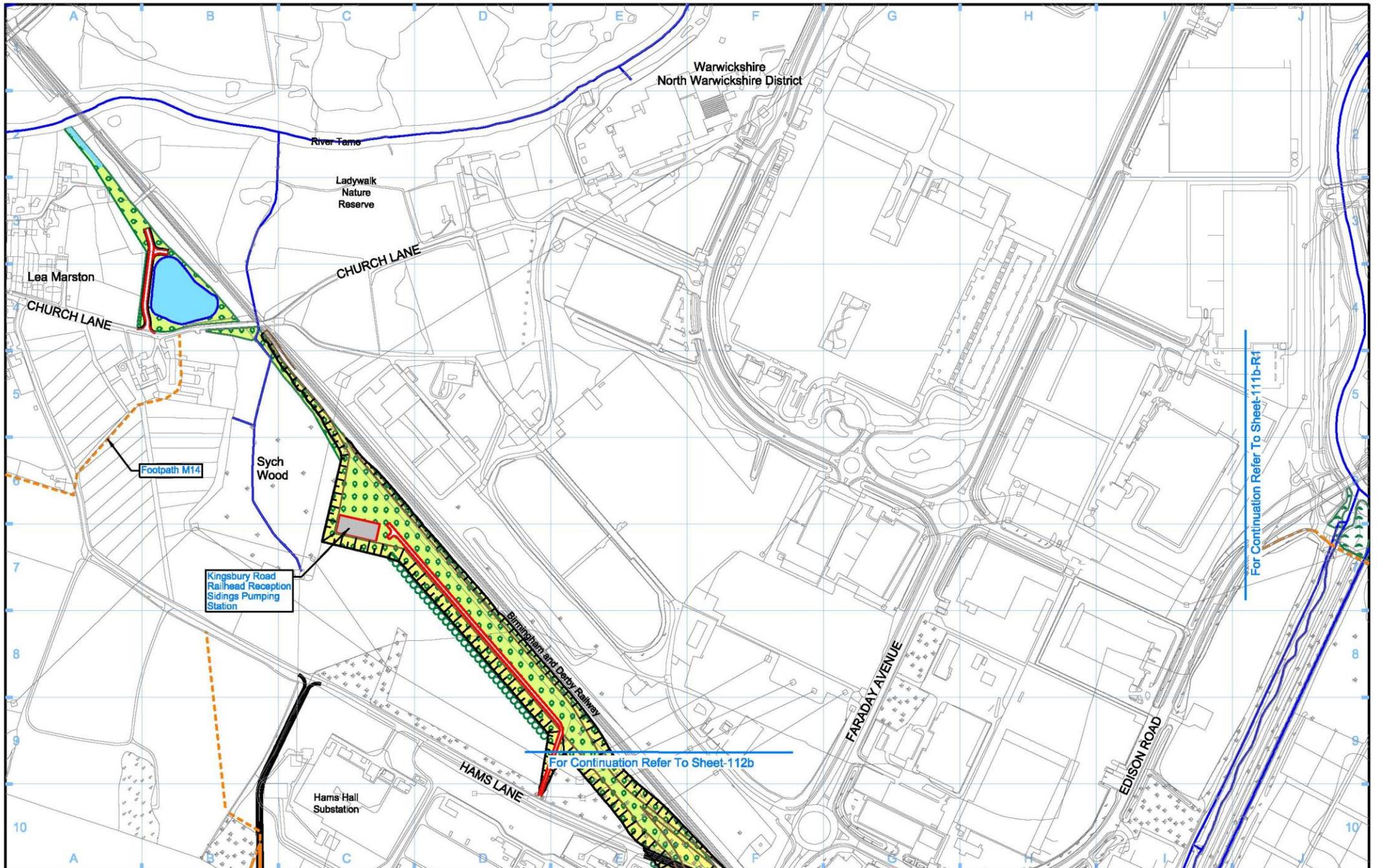
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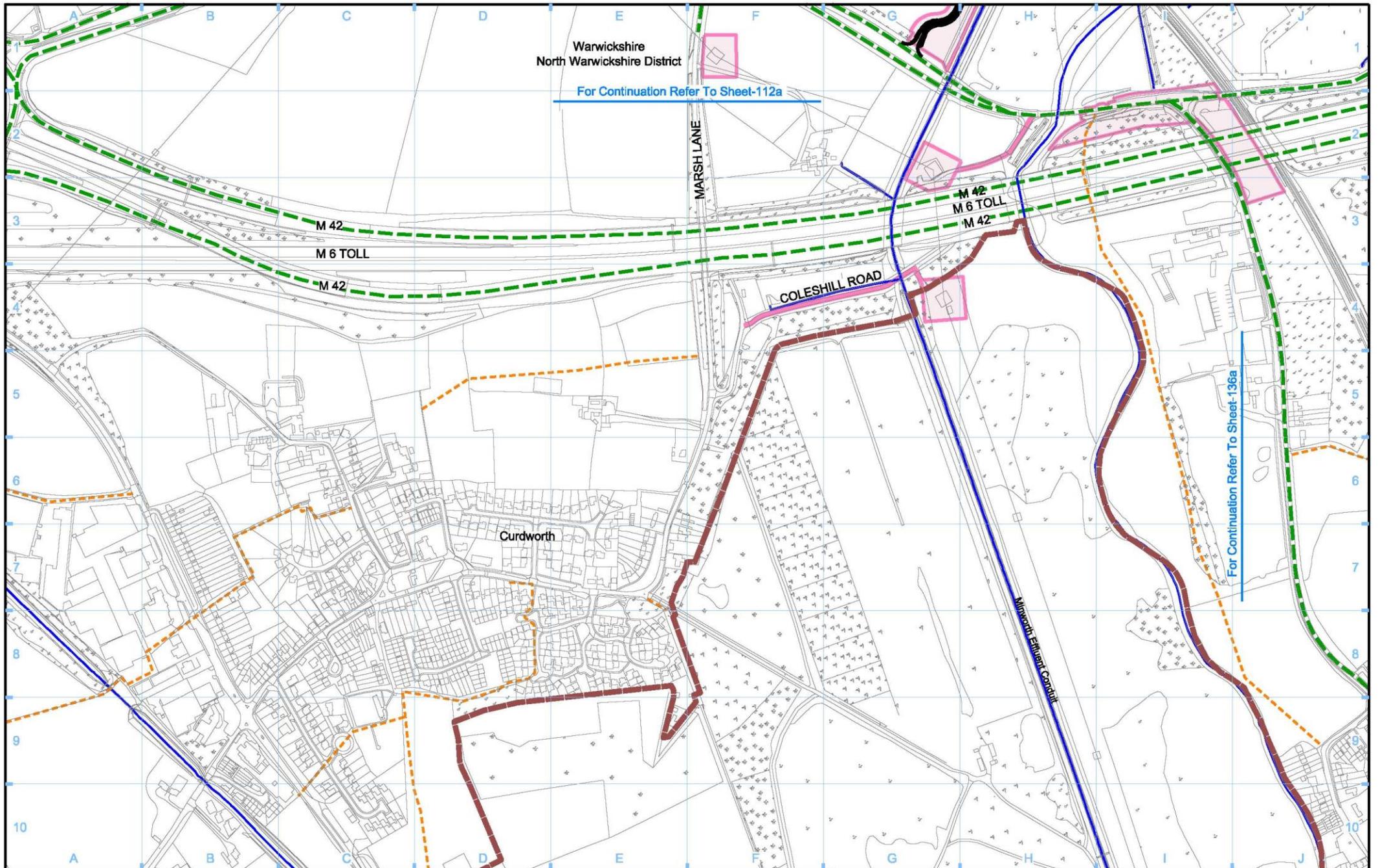
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<b>Legend</b> 		<b>Map Number</b> <b>S17-OP-112-R1</b> <b>Operational Phase</b> <b>Sch 17 Planning Context Report Plan</b> <b>Planning Authority Area:</b> North Warwickshire Borough Council	 Registered in England. Registration number 06791895 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA © Crown copyright and database rights 2017 Ordnance Survey. License Number 100049160 Doc Number: C223-HS2-TP-DPL-030-622501 P00.1 Date:
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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
	Temporary replacement community facility
	Planning authority 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
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-112a-L1**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council/Birmingham Metropolitan District

**hs2**

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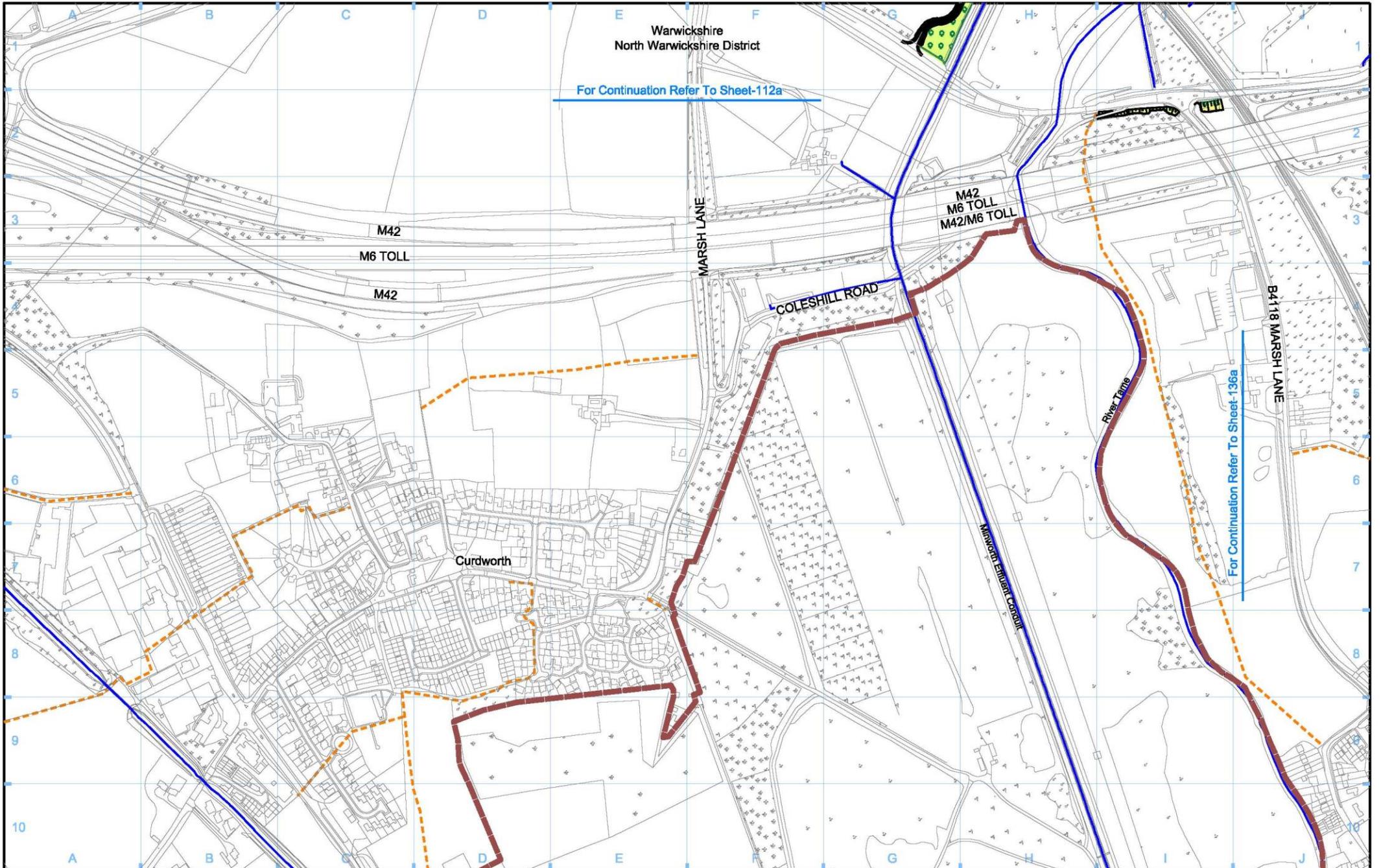
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For Continuation Refer To Sheet-136a

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/Replacement community facility
	Engineering earthworks
	Landscape earthworks
	Rail alignment formation
	Returned to suitable development use
	County boundary
	Borough / District boundary
	Planning authority 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: **S17-OP-112a-L1**

Map Name: **Operational Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council / Lichfield District

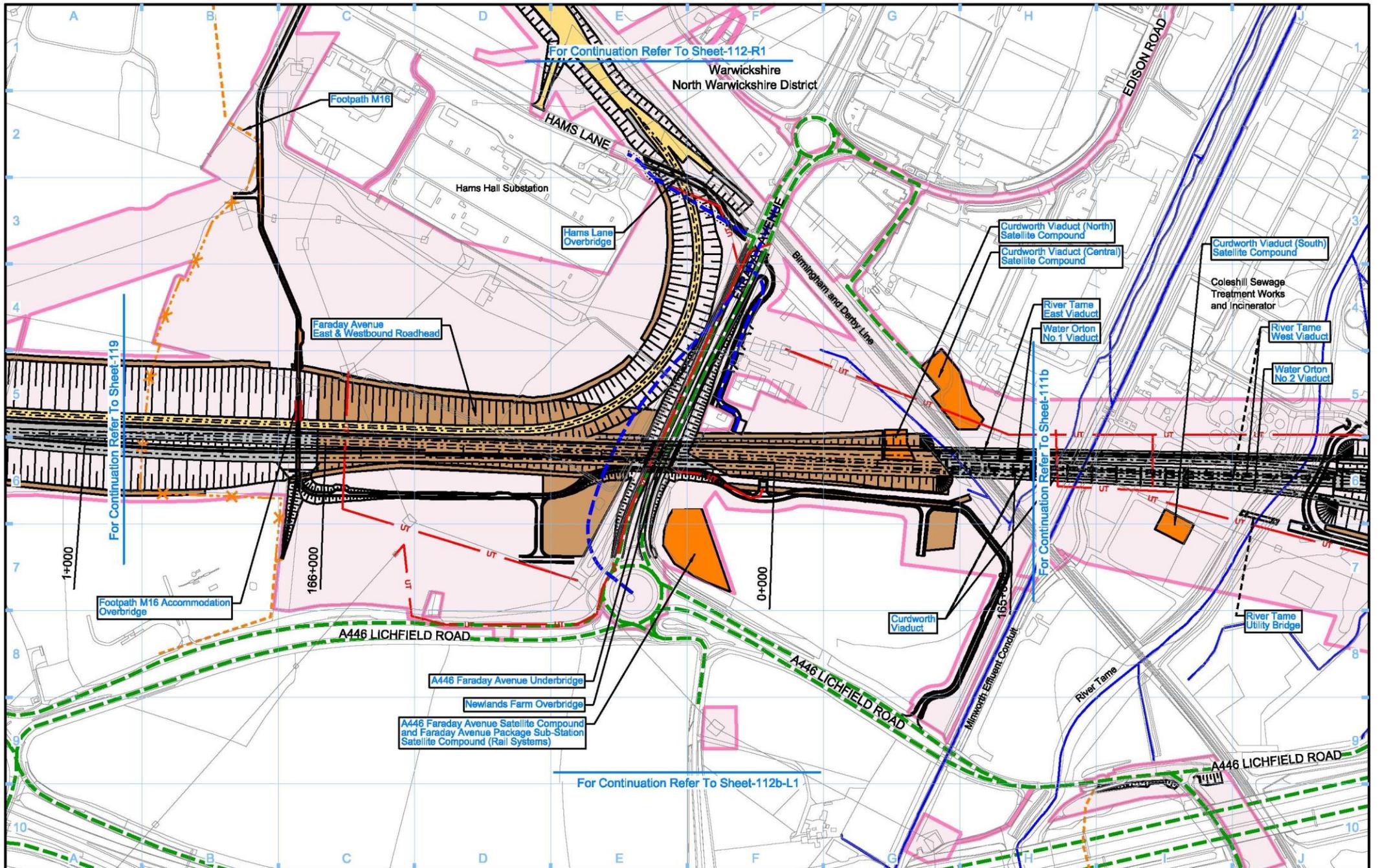
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Doc Number: C223-HS2-TP-DPL-030-622502 P00.1 Date:



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
	Temporary replacement community facility
	Planning authority 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
	Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-112b**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council

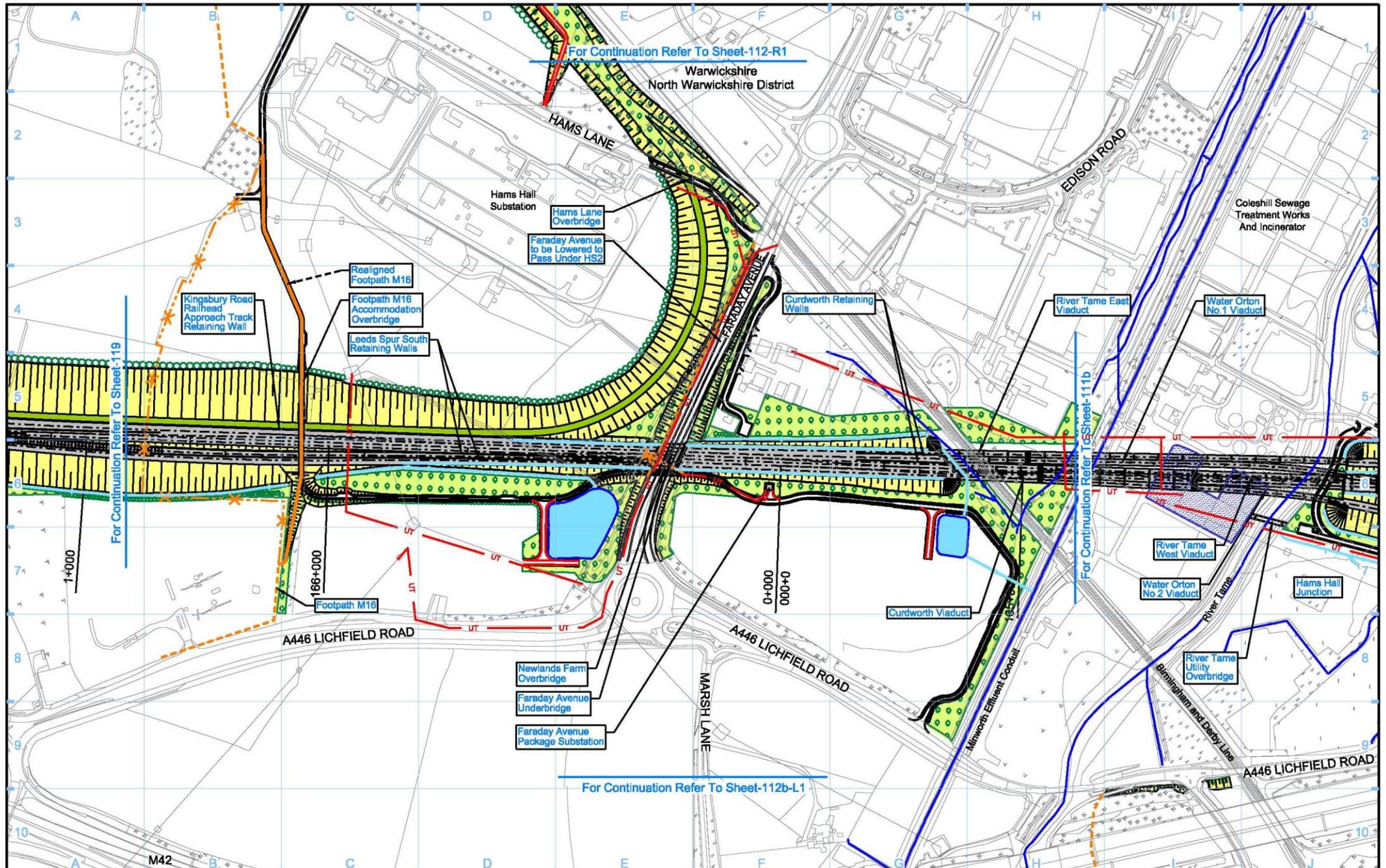
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Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA

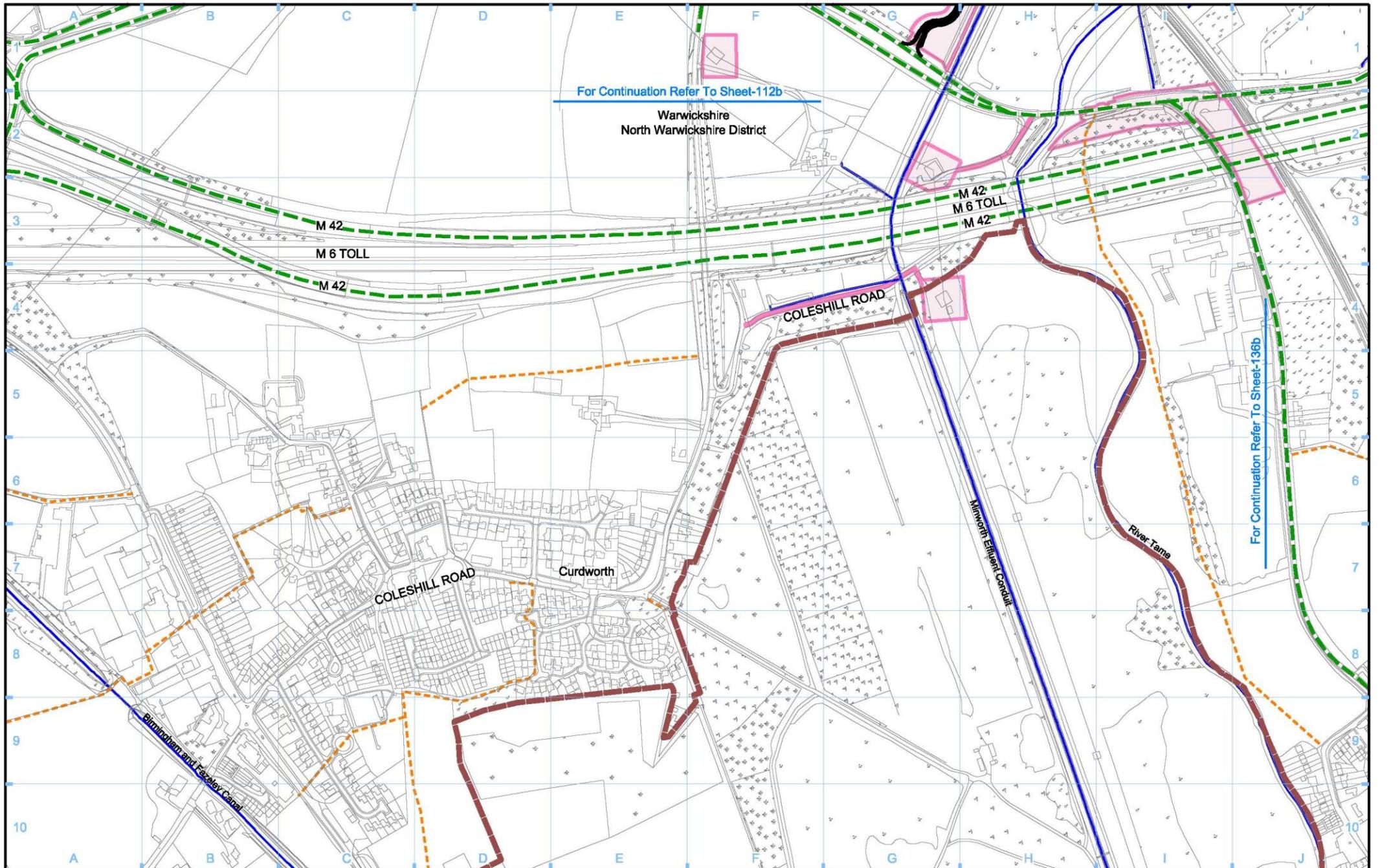
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Doc Number: C223-HS2-TP-DPL-030-522510 P00.1 Date:



<b>Legend</b> <ul style="list-style-type: none"> <li>Depot, station, headhouse or portal building</li> <li>Tunnel portal</li> <li>Electricity substation</li> <li>Land drainage area</li> <li>Ecological mitigation pond</li> <li>Balancing pond</li> </ul>		<ul style="list-style-type: none"> <li>Replacement floodplain storage</li> <li>Woodland habitat creation</li> <li>Wetland habitat creation</li> <li>Grassland habitat creation</li> <li>Landscape mitigation planting (scrub / woodland)</li> <li>Grassed areas</li> <li>Sustainable placement</li> </ul>		<ul style="list-style-type: none"> <li>Public realm/Replacement community facility</li> <li>Engineering earthworks</li> <li>Landscape earthworks</li> <li>Rail alignment formation</li> <li>Returned to suitable development use</li> <li>County boundary</li> <li>Borough / District boundary</li> </ul>		<ul style="list-style-type: none"> <li>Planning authority boundary</li> <li>Watercourse diversion</li> <li>Existing watercourse</li> <li>Ditches - new</li> <li>Hedgerow habitat creation</li> <li>Main utility works</li> <li>Existing public right of way (PRoW)</li> <li>New, diverted or realigned PRoW</li> </ul>		<ul style="list-style-type: none"> <li>Stopped-up PRoW</li> <li>Tunnels external extent</li> <li>Rail alignment</li> <li>HS2 Access road</li> <li>Noise fence barrier</li> <li>Chainage (e.g. 10+000)</li> </ul>		<b>S17-OP-112b</b> <b>Operational Phase</b> <b>Sch 17 Planning Context Report Plan</b> Planning Authority Area: North Warwickshire Borough Council		<p>Registered in England. Registration number 06791895          Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 200 250          Metres</p> <p>© Crown copyright and database rights 2017          Ordnance Survey. License Number: 100049160</p> <p>Doc Number: C223-HS2-TP-DPL-030-622510 P00.1 Date:</p>	
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For Continuation Refer To Sheet-112b

Warwickshire  
North Warwickshire District

For Continuation Refer To Sheet-136b

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
	Temporary replacement community facility
	Planning authority 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
	UT - Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number  
**S17-CP-112b-L1**

Map Name  
**Construction Phase  
Sch 17 Planning Context Report Plan**

Planning Authority Area  
North Warwickshire Borough Council/Birmingham City Council

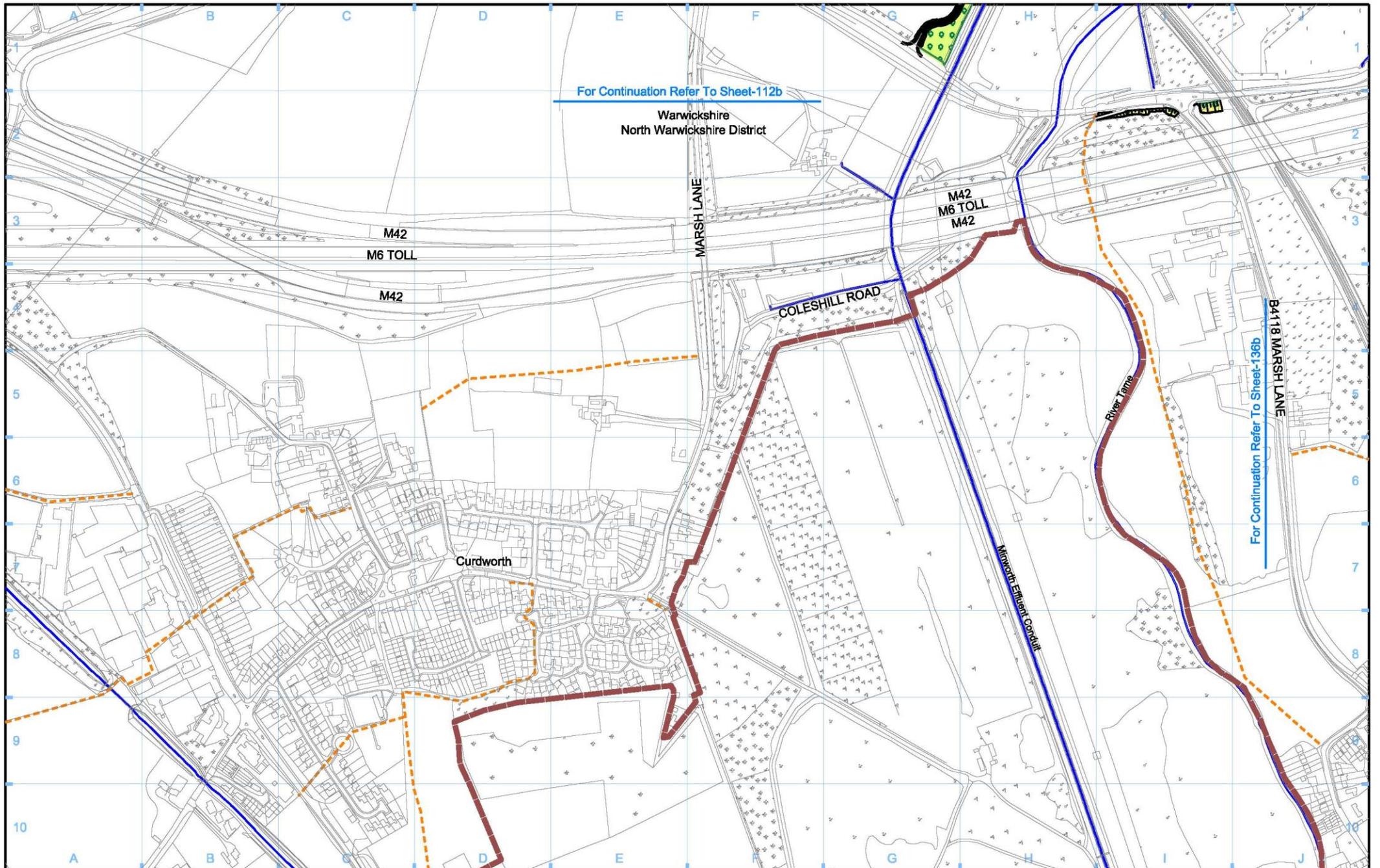
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P00.1 Date:



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	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/Replacement community facility
	Engineering earthworks
	Landscape earthworks
	Rail alignment formation
	Returned to suitable development use
	County boundary
	Borough / District boundary
	Planning authority 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  
**S17-OP-112b-L1**

Map Name  
**Operational Phase  
Sch 17 Planning Context Report Plan**

Planning Authority Area  
North Warwickshire Borough Council/Birmingham City Council

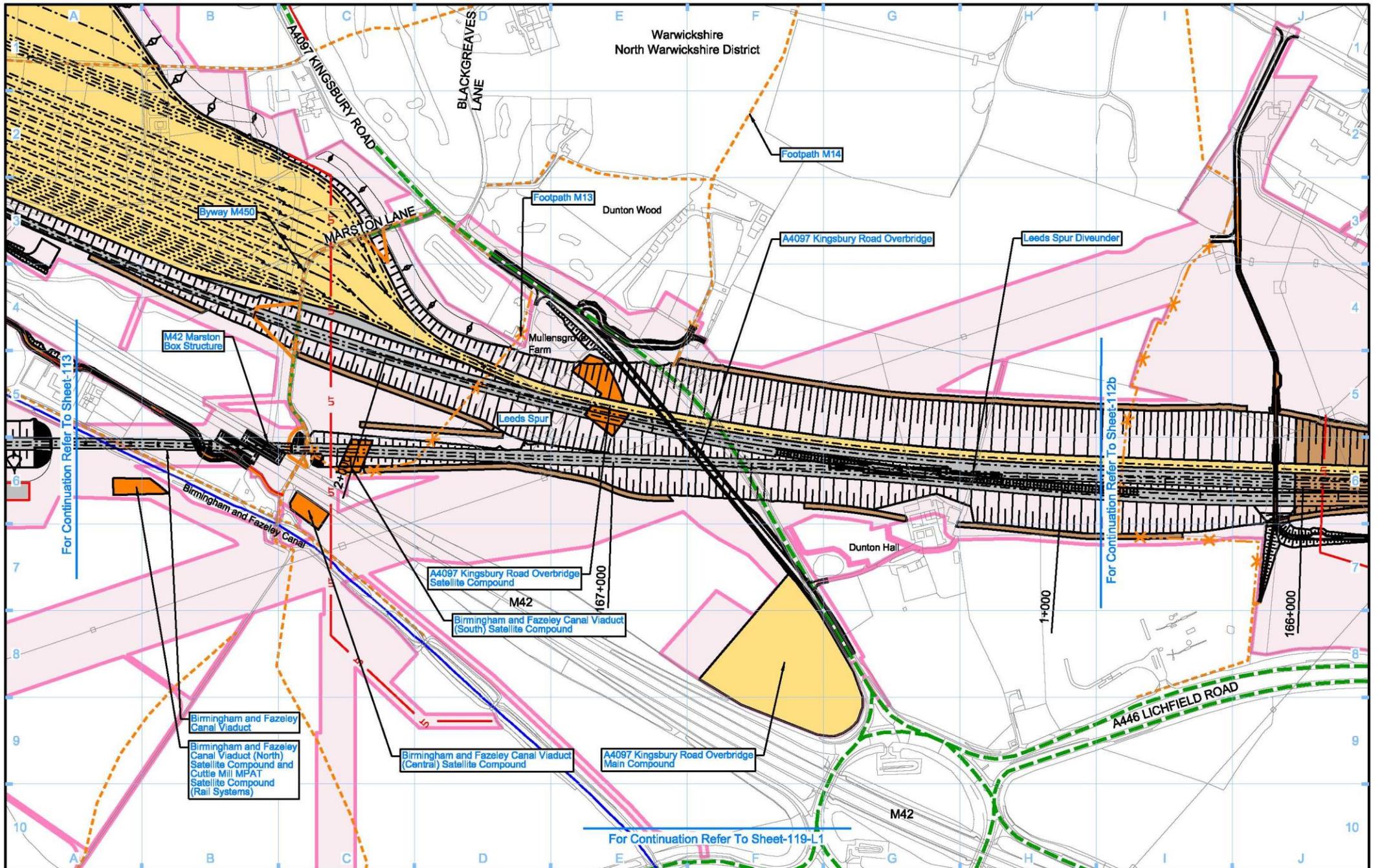
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Metres

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Doc Number: C223-HS2-TP-DPL-030-622512 P00.1 Date:



Legend	
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	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
	Temporary replacement community facility
	Planning authority 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
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-119**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council

**hs2**

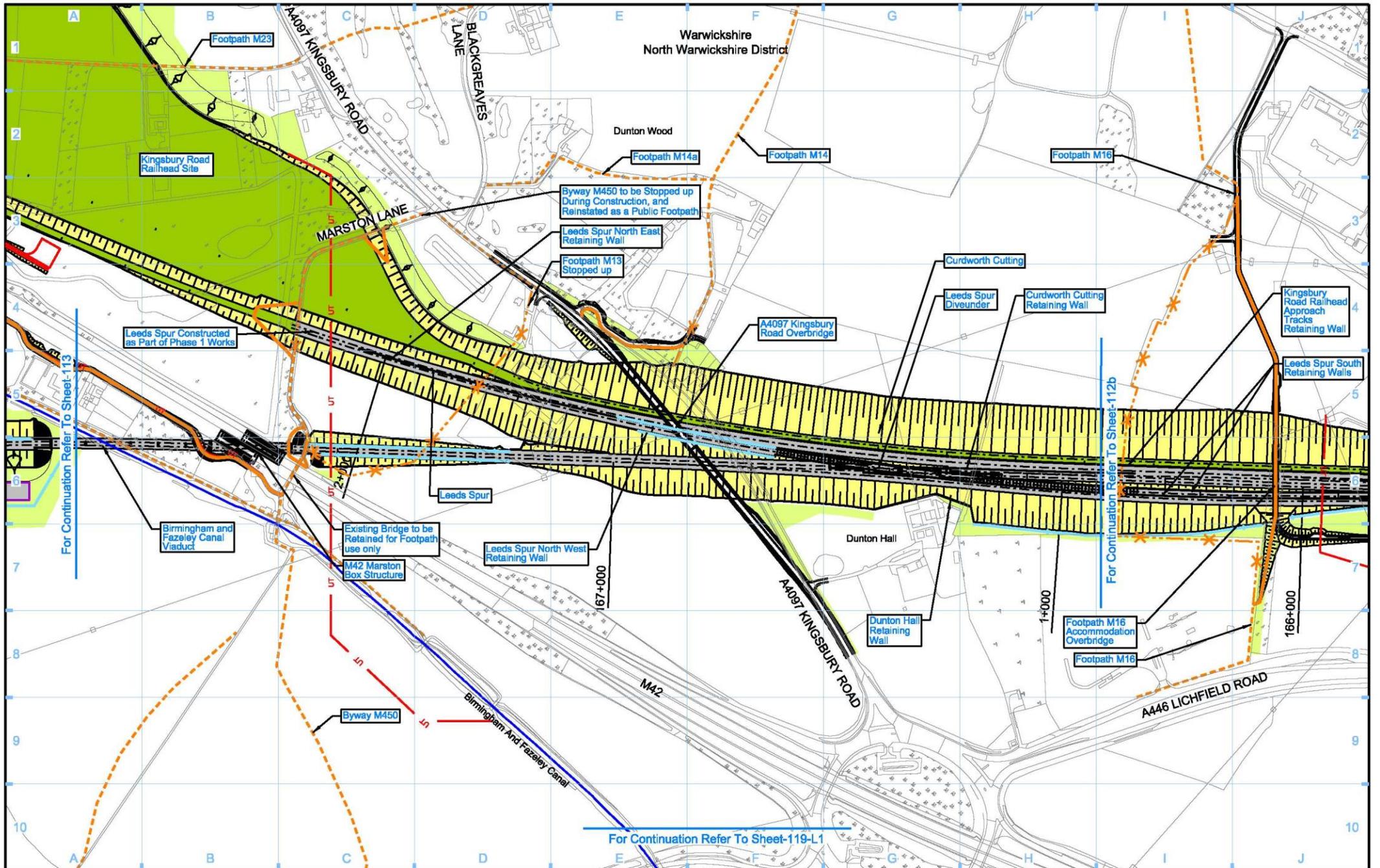
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Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA

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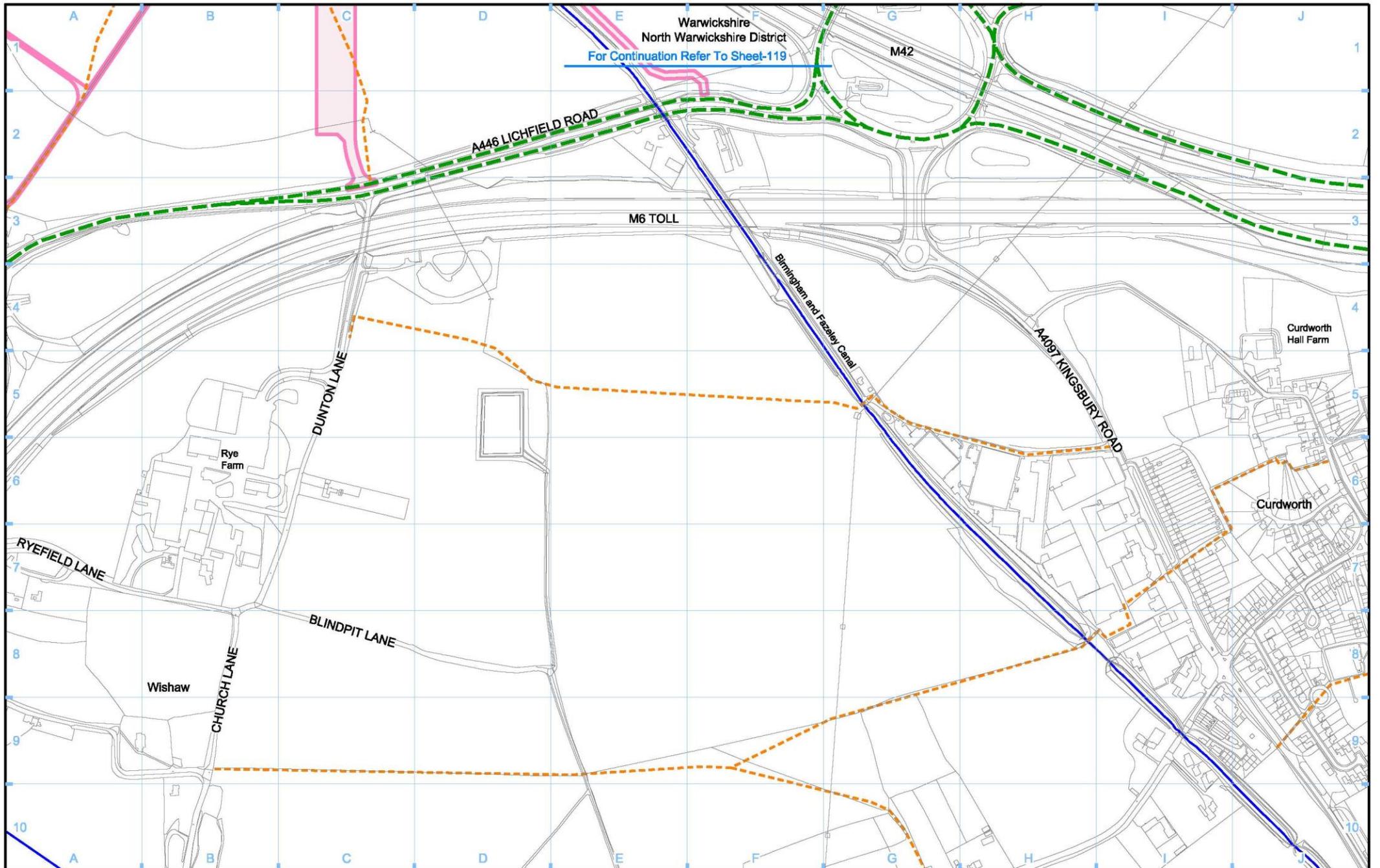
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<b>Legend</b> <ul style="list-style-type: none"> <li>Depot, station, headhouse or portal building</li> <li>Tunnel portal</li> <li>Electricity substation</li> <li>Land drainage area</li> <li>Ecological mitigation pond</li> <li>Balancing pond</li> </ul>		<ul style="list-style-type: none"> <li>Replacement floodplain storage</li> <li>Woodland habitat creation</li> <li>Wetland habitat creation</li> <li>Grassland habitat creation</li> <li>Landscape mitigation planting (scrub / woodland)</li> <li>Grassed areas</li> <li>Sustainable placement</li> </ul>		<ul style="list-style-type: none"> <li>Public realm/Replacement community facility</li> <li>Engineering earthworks</li> <li>Landscape earthworks</li> <li>Rail alignment formation</li> <li>Returned to suitable development use</li> <li>County boundary</li> <li>Borough / District boundary</li> </ul>		<ul style="list-style-type: none"> <li>Planning authority boundary</li> <li>Watercourse diversion</li> <li>Existing watercourse</li> <li>Ditches - new</li> <li>Hedgerow habitat creation</li> <li>Main utility works</li> <li>Existing public right of way (PRoW)</li> <li>New, diverted or realigned PRoW</li> </ul>		<ul style="list-style-type: none"> <li>Stopped-up PRoW</li> <li>Tunnels external extent</li> <li>Rail alignment</li> <li>HS2 Access road</li> <li>Noise fence barrier</li> <li>Chainage (e.g. 10+000)</li> </ul>		<b>Map Number</b> <b>S17-OP-119</b> <b>Operational Phase</b> <b>Sch 17 Planning Context Report Plan</b> <b>Map Name</b> <b>Planning Authority Area:</b> North Warwickshire Borough Council		<p>Registered in England. Registration number 06791866          Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250          Metres</p> <p>© Crown copyright and database rights 2017          Ordnance Survey. License Number 100049160</p> <p>Doc Number: C223-HS2-TP-DPL-030-622700 P00.1 Date:</p>	
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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
	Temporary replacement community facility
	Planning authority boundary
	Existing watercourse
	Tunnels external extent
	Construction traffic route
	Existing public right of way (PRoW)
	Temporary PRoW diversion / realignment
	Temporary highway diversion / realignment
	New, diverted or realigned PRoW
	Stopped-up PRoW
	Temporary PRoW diversion / realignment
	Temporary highway diversion / realignment
	UT
	Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number  
**S17-CP-119-L1**

Map Name  
**Construction Phase  
Sch 17 Planning Context Report Plan**

Planning Authority Area  
North Warwickshire Borough Council

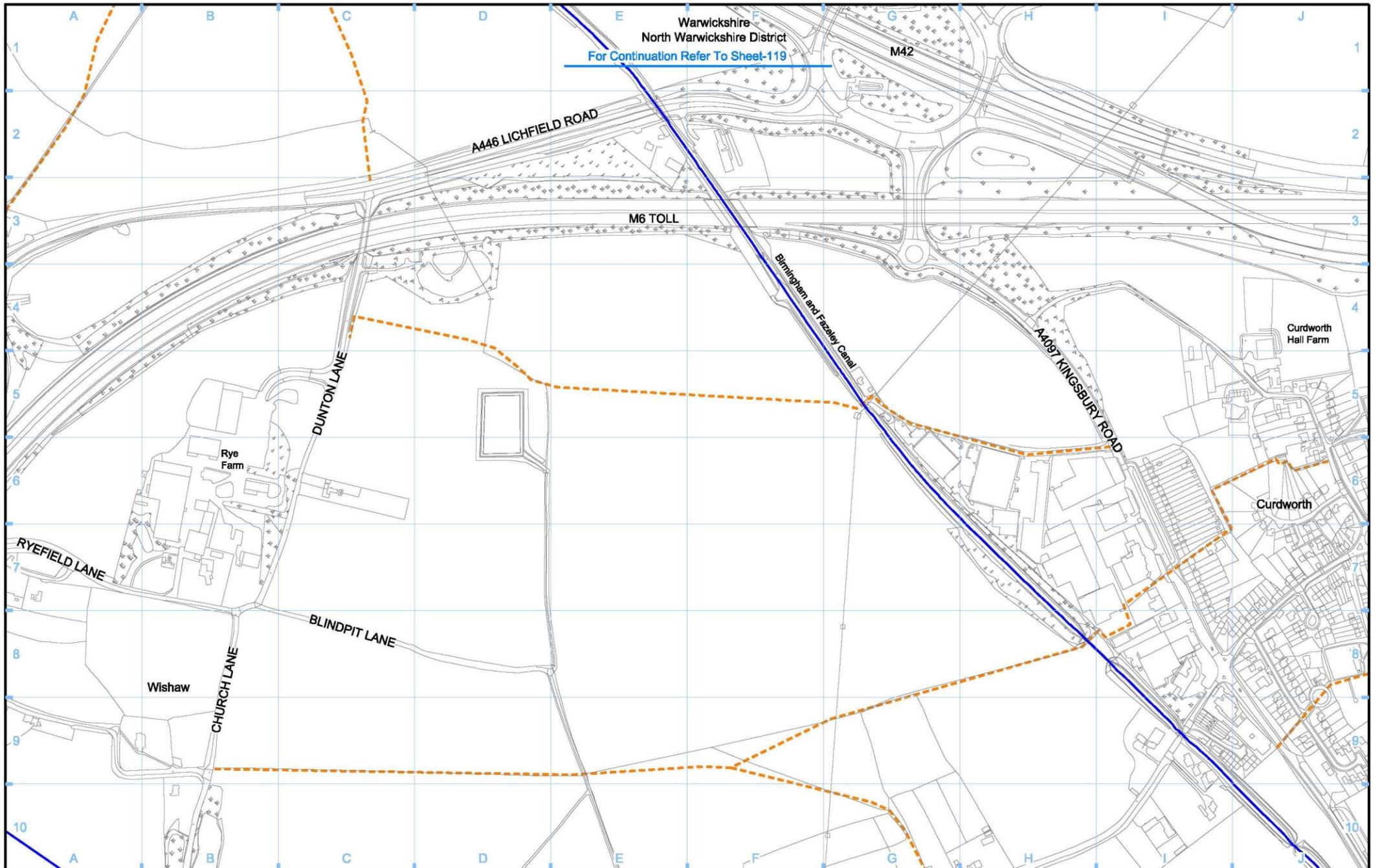
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Registered office: 2 Snow Hill, Queensway,  
Birmingham, B4 6QA

Scale at A3: 1:5,000

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Metres

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Doc Number: C223-HS2-TP-DPL-030-522702 P00.1 Date:



Warwickshire  
North Warwickshire District  
For Continuation Refer To Sheet-119

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/Replacement community facility
	Engineering earthworks
	Landscape earthworks
	Rail alignment formation
	Returned to suitable development use
	County boundary
	Borough / District boundary
	Planning authority 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  
**S17-OP-119-L1**

Map Name  
**Operational Phase  
Sch 17 Planning Context Report Plan**

Planning Authority Area  
North Warwickshire Borough Council

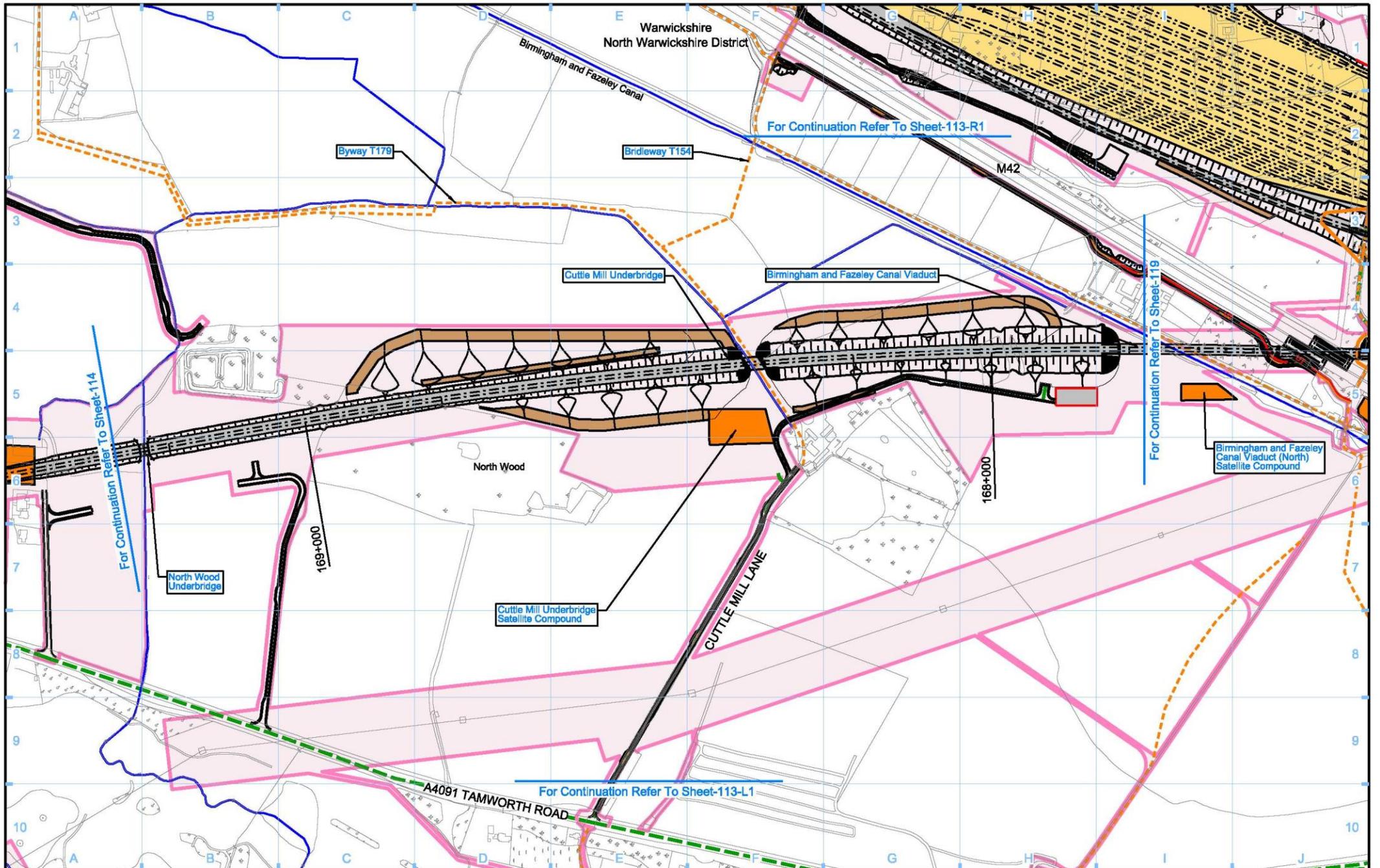
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Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA

Scale at A3: 1:5,000

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Metres

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Doc Number: C223-HS2-TP-DPL-030-622702 P00.1 Date:



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
	Temporary replacement community facility
	Planning authority 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
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-113**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council

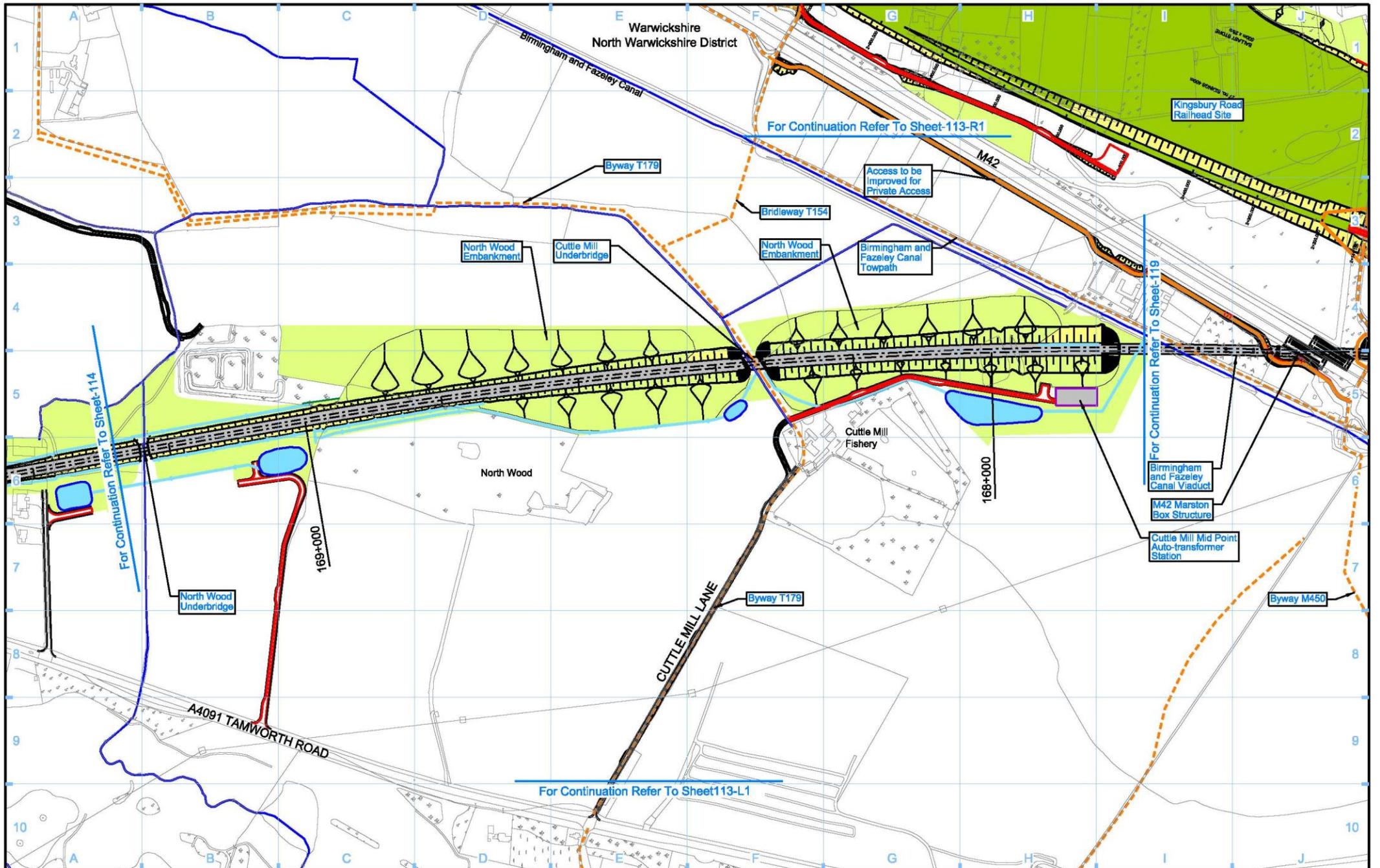
**hs2**

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Doc Number: C223-HS2-TP-DPL-030-522800 P00.1 Date:



**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/Replacement community facility
	Engineering earthworks
	Landscape earthworks
	Rail alignment formation
	Returned to suitable development use
	County boundary
	Borough / District boundary

	Planning authority 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: **S17-OP-113**

Map Name: **Operational Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council

**hs2**

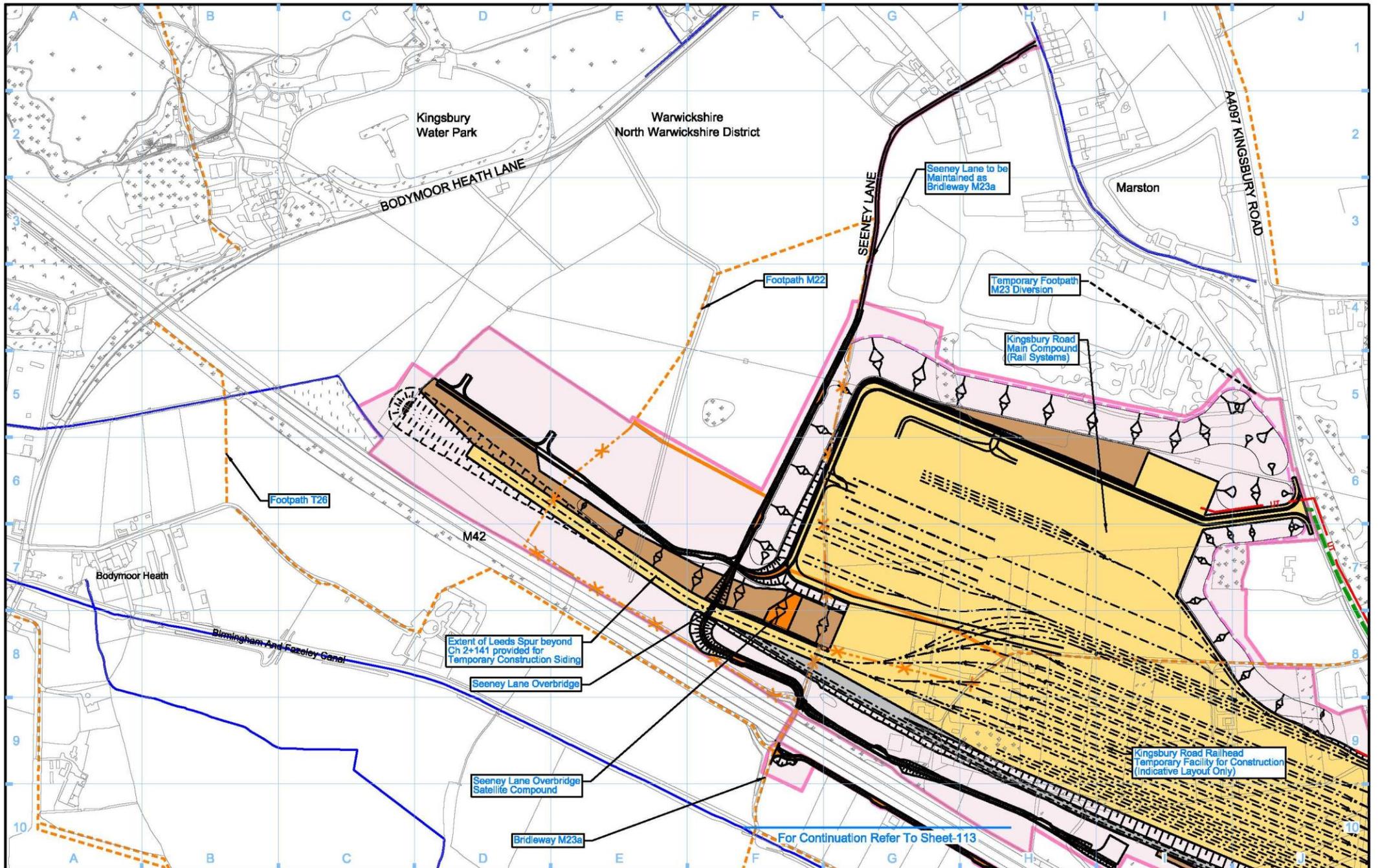
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Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA

Scale at A3: 1:5,000

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Doc Number: C223-HS2-TP-DPL-030-622900 P00.1 Date:



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
	Temporary replacement community facility
	Planning authority 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
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-113-R1**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council

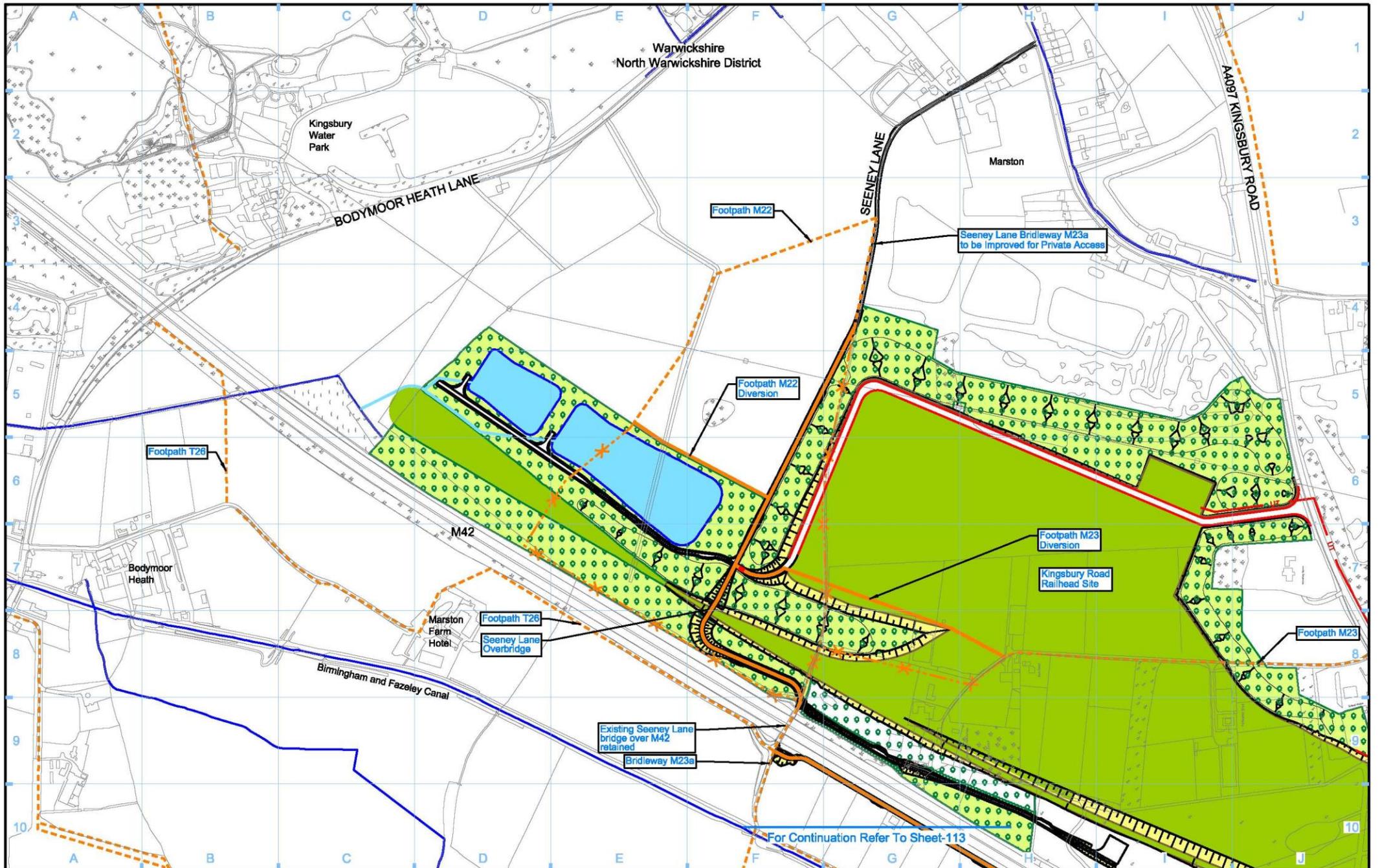
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Doc Number: C223-HS2-TP-DPL-030-522801 P00.1 Date:



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/Replacement community facility
	Engineering earthworks
	Landscape earthworks
	Rail alignment formation
	Returned to suitable development use
	County boundary
	Borough / District boundary
	Planning authority 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: **S17-OP-113-R1**

Map Name: **Operational Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council

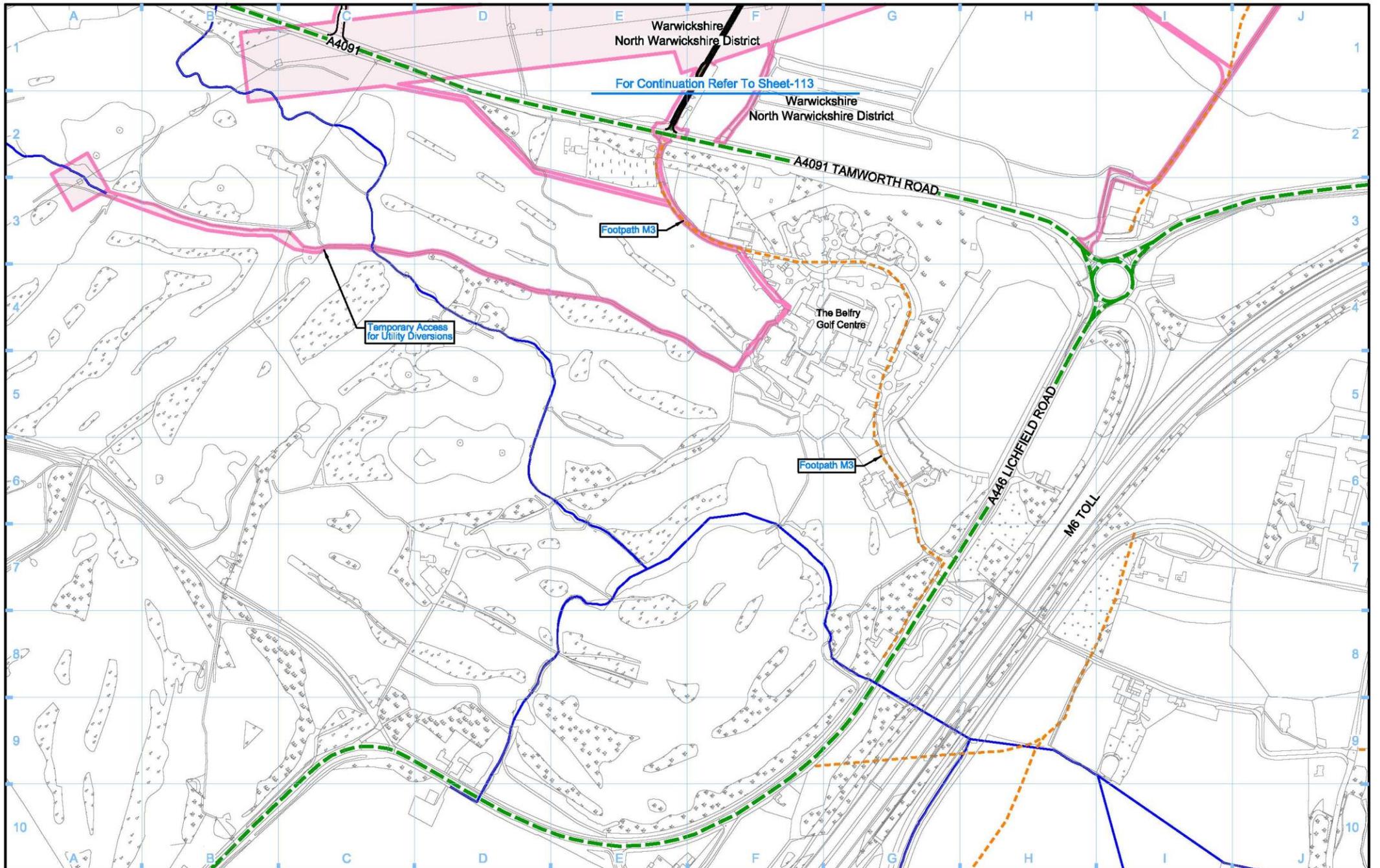
**hs2**

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Scale at A3: 1:5,000

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Doc Number: C223-CSI-EV-DPL-030-622901-FPD P00.1 Date:



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
	Temporary replacement community facility
	Planning authority boundary
	Existing watercourse
	Tunnels external extent
	Construction traffic route
	Existing public right of way (PRoW)
	Stopped-up PRoW
	Temporary PRoW diversion / realignment
	Temporary highway diversion / realignment
	UT - Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-113-L1**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council

**hs2**

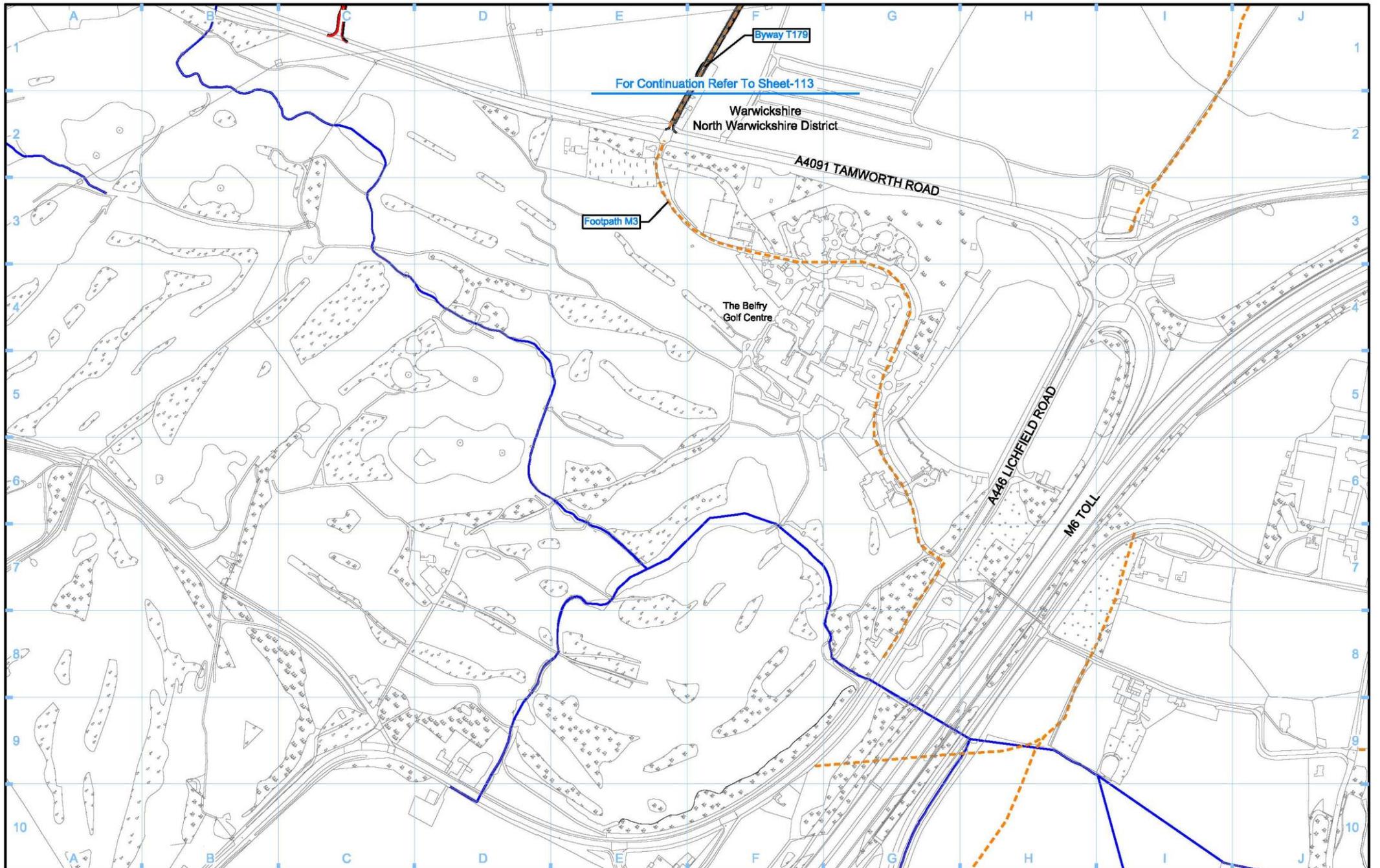
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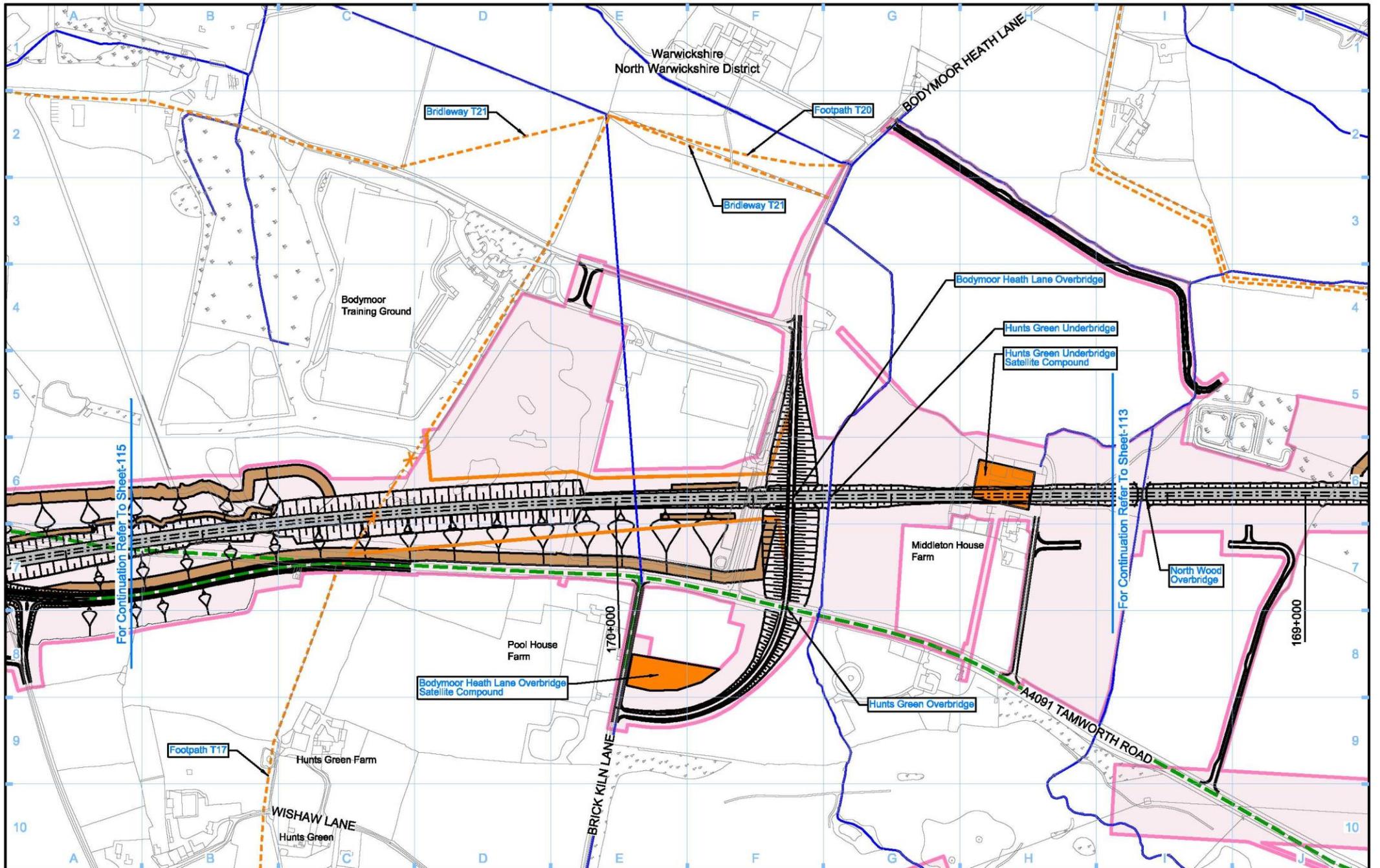
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Doc Number: C223-HS2-TP-DPL-030-522802

P00.1 Date:



<b>Legend</b> <ul style="list-style-type: none"> <li>Depot, station, headhouse or portal building</li> <li>Tunnel portal</li> <li>Electricity substation</li> <li>Land drainage area</li> <li>Ecological mitigation pond</li> <li>Balancing pond</li> </ul>		<ul style="list-style-type: none"> <li>Replacement floodplain storage</li> <li>Woodland habitat creation</li> <li>Wetland habitat creation</li> <li>Grassland habitat creation</li> <li>Landscape mitigation planting (scrub / woodland)</li> <li>Grassed areas</li> <li>Sustainable placement</li> </ul>		<ul style="list-style-type: none"> <li>Public realm/Replacement community facility</li> <li>Engineering earthworks</li> <li>Landscape earthworks</li> <li>Rail alignment formation</li> <li>Returned to suitable development use</li> <li>County boundary</li> <li>Borough / District boundary</li> </ul>		<ul style="list-style-type: none"> <li>Planning authority boundary</li> <li>Watercourse diversion</li> <li>Existing watercourse</li> <li>Ditches - new</li> <li>Hedgerow habitat creation</li> <li>Main utility works</li> <li>Existing public right of way (PRoW)</li> <li>New, diverted or realigned PRoW</li> </ul>		<ul style="list-style-type: none"> <li>Stopped-up PRoW</li> <li>Tunnels external extent</li> <li>Rail alignment</li> <li>HS2 Access road</li> <li>Noise fence barrier</li> <li>Chainage (e.g. 10+000)</li> </ul>		<b>Map Number</b> <b>S17-OP-113-L1</b> <b>Operational Phase</b> <b>Sch 17 Planning Context Report Plan</b> <b>Planning Authority Area:</b> North Warwickshire Borough Council	<p>Registered in England. Registration number 06791995          Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA</p> <p>© Crown copyright and database rights 2017          Ordnance Survey. License Number 100049160</p> <p>Doc Number: C223-HS2-TP-DPL-030-622802 P00.1 Date:</p>	<p>Scale at A3: 1:5,000</p> <p>North Arrow</p>
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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
	Temporary replacement community facility
	Planning authority 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
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-114**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council

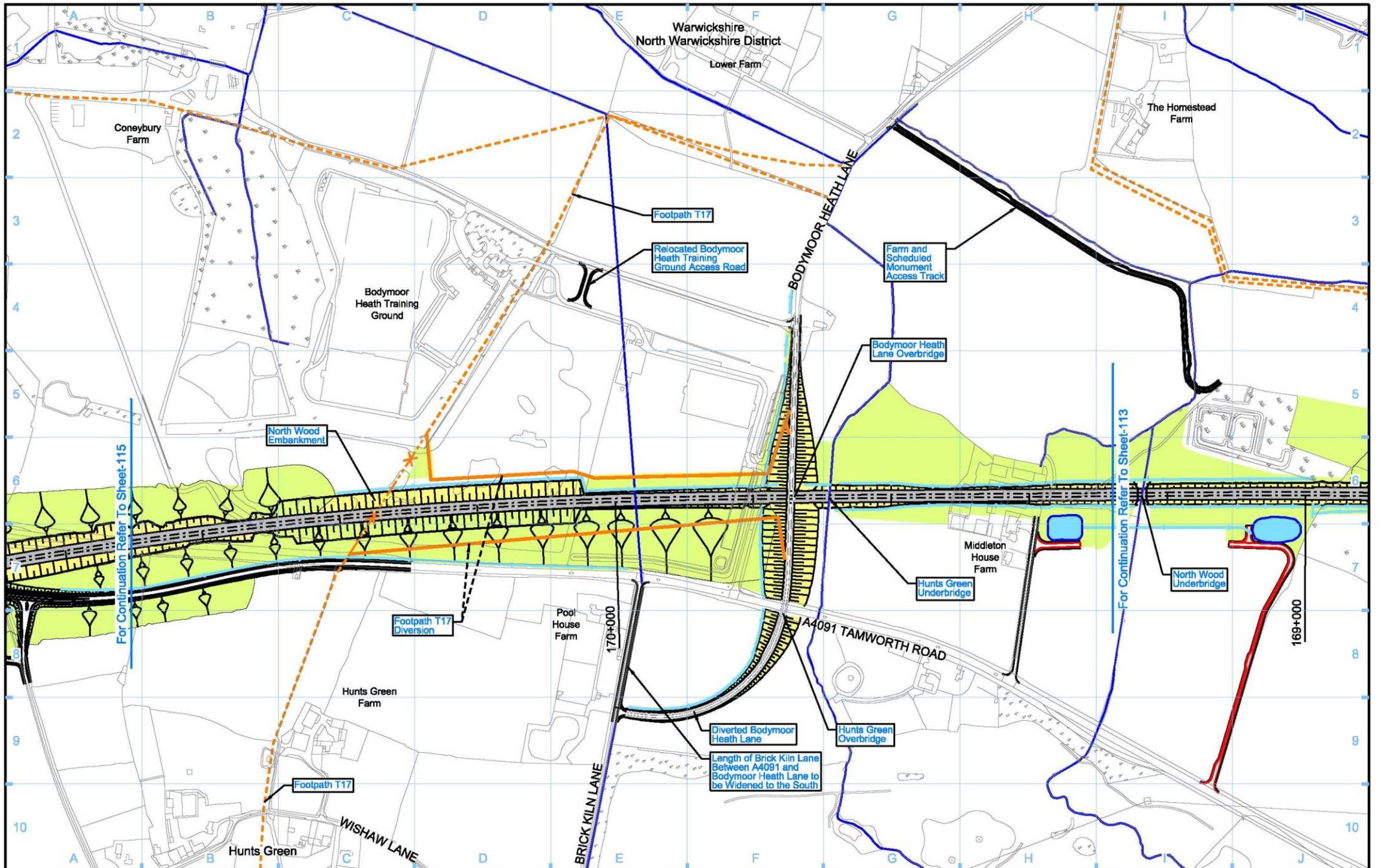
**hs2**

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Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA

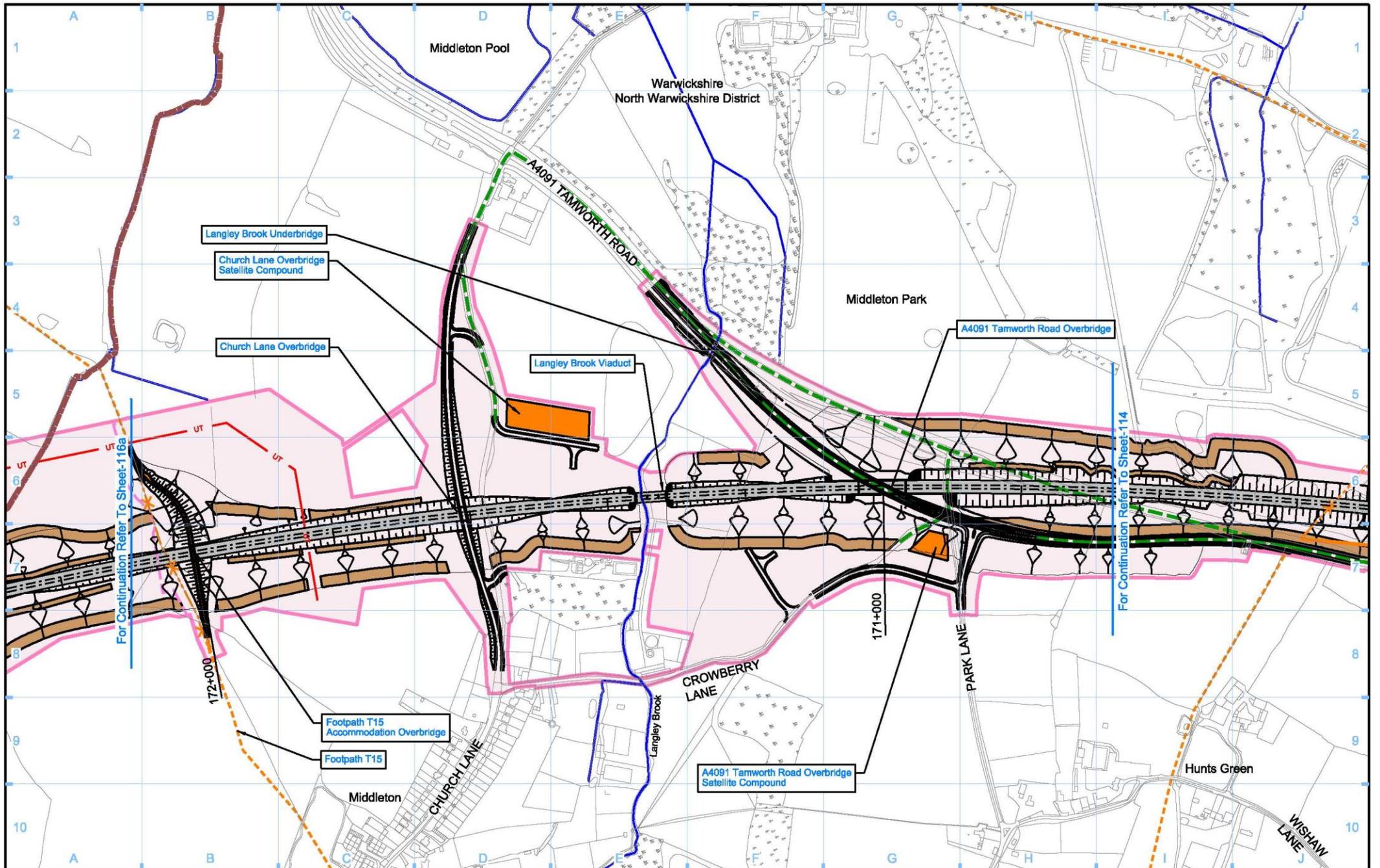
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Doc Number: C223-HS2-TP-DPL-030-523100 P00.1 Date:



<b>Legend</b> <ul style="list-style-type: none"> <li>Depot, station, headhouse or portal building</li> <li>Tunnel portal</li> <li>Electricity substation</li> <li>Land drainage area</li> <li>Ecological mitigation pond</li> <li>Balancing pond</li> <li>Replacement floodplain storage</li> <li>Woodland habitat creation</li> <li>Wetland habitat creation</li> <li>Grassland habitat creation</li> <li>Landscape mitigation planting (scrub / woodland)</li> <li>Grassed areas</li> <li>Sustainable placement</li> <li>Public realm/Replacement community facility</li> <li>Engineering earthworks</li> <li>Landscape earthworks</li> <li>Rail alignment formation</li> <li>Returned to suitable development use</li> <li>County boundary</li> <li>Borough / District boundary</li> <li>Planning authority boundary</li> <li>Watercourse diversion</li> <li>Existing watercourse</li> <li>Ditches - new</li> <li>Hedgerow habitat creation</li> <li>Main utility works</li> <li>Existing public right of way (PRoW)</li> <li>New, diverted or realigned PRoW</li> <li>Stopped-up PRoW</li> <li>Tunnels external extent</li> <li>Rail alignment</li> <li>HS2 Access road</li> <li>Noise fence barrier</li> <li>Chainage (e.g. 10+000)</li> </ul>		<b>Map Number</b> <b>S17-OP-114</b> <b>Map Name</b> <b>Operational Phase</b> <b>Sch 17 Planning Context Report Plan</b> <b>Planning Authority Area</b> North Warwickshire Borough Council	<p>Registered in England. Registration number 06791895          Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA</p> <p>© Crown copyright and database rights 2017          Ordnance Survey. Licence Number: 100049160</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250          Metres</p> <p>Doc Number: C223-HS2-TP-DPL-030-623100 P00.1 Date:</p>
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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
	Temporary replacement community facility
	Planning authority boundary
	Existing watercourse
	Tunnels external extent
	Construction traffic route
	Temporary highway diversion / realignment
	Existing public right of way (PRoW)
	New, diverted or realigned PRoW
	Stopped-up PRoW
	Temporary PRoW diversion / realignment
	Temporary utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number  
**S17-CP-115**

Map Name  
**Construction Phase  
Sch 17 Planning Context Report Plan**

Planning Authority Area  
North Warwickshire Borough Council/Lichfield District

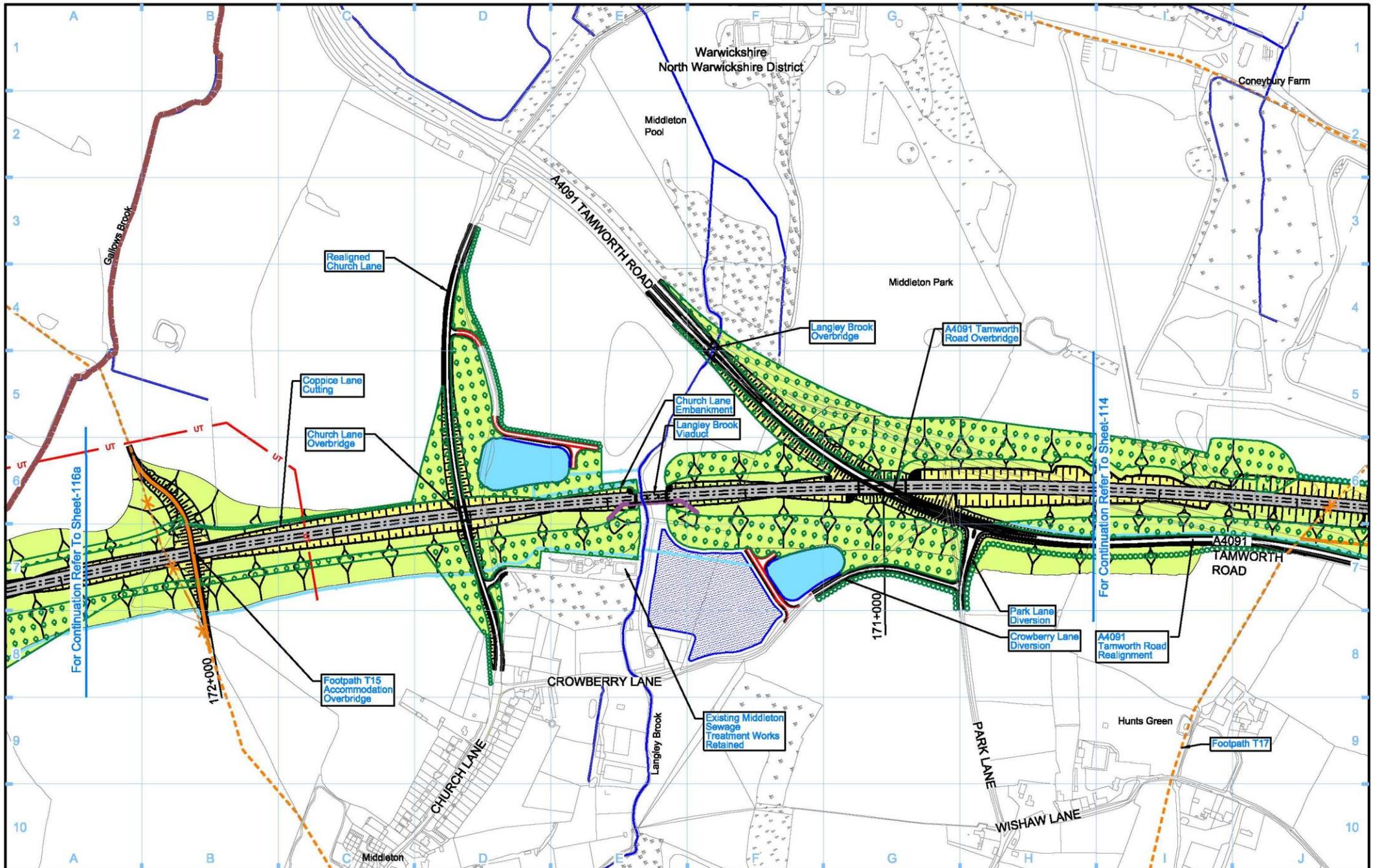
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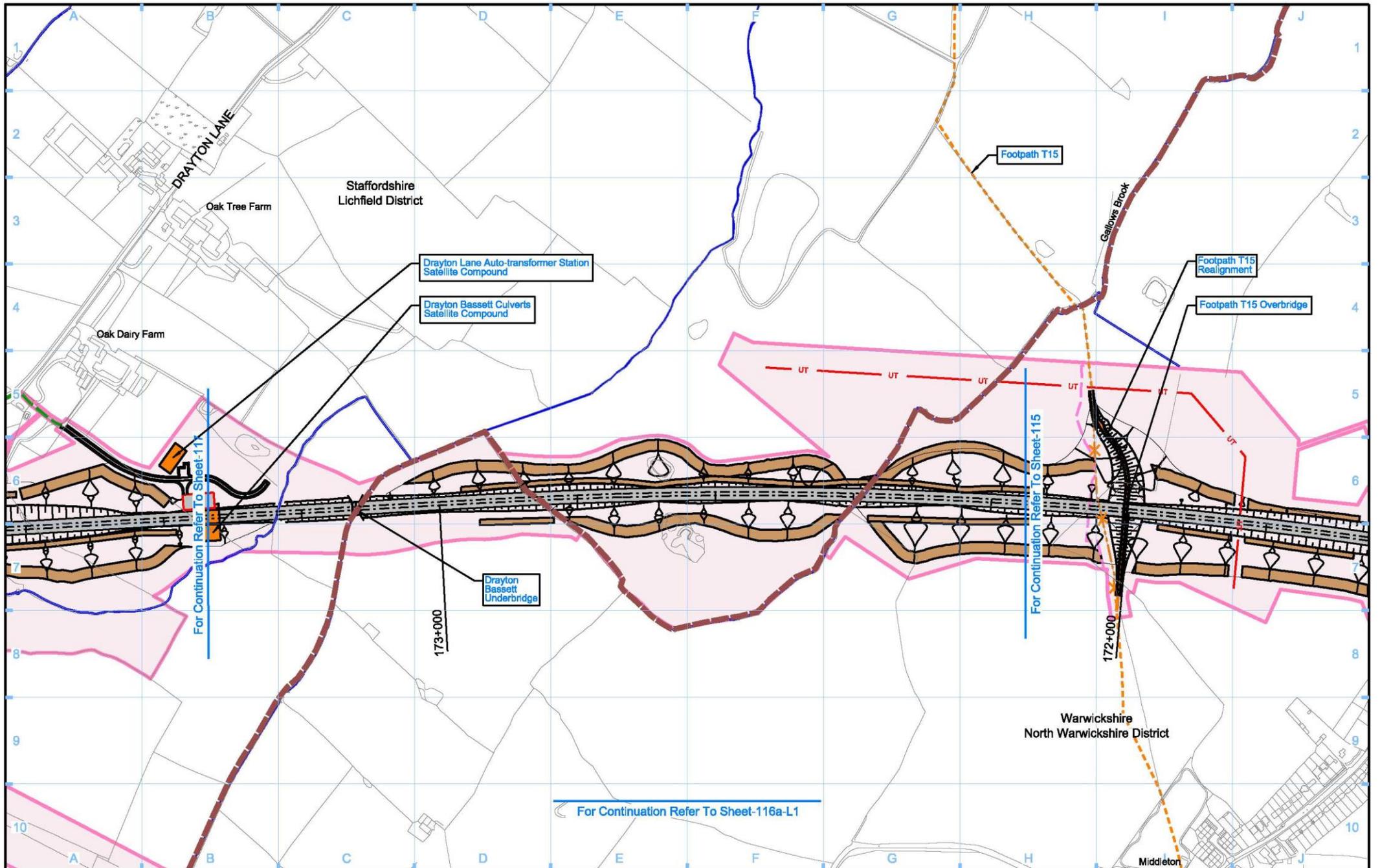
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Doc Number: C223-HS2-TP-DPL-030-523300 P00.1 Date:



<b>Legend</b> <ul style="list-style-type: none"> <li>Depot, station, headhouse or portal building</li> <li>Tunnel portal</li> <li>Electricity substation</li> <li>Land drainage area</li> <li>Ecological mitigation pond</li> <li>Balancing pond</li> </ul>		<ul style="list-style-type: none"> <li>Replacement floodplain storage</li> <li>Woodland habitat creation</li> <li>Wetland habitat creation</li> <li>Grassland habitat creation</li> <li>Landscape mitigation planting (scrub / woodland)</li> <li>Grassed areas</li> <li>Sustainable placement</li> </ul>		<ul style="list-style-type: none"> <li>Public realm/Replacement community facility</li> <li>Engineering earthworks</li> <li>Landscape earthworks</li> <li>Rail alignment formation</li> <li>Returned to suitable development use</li> <li>County boundary</li> <li>Borough / District boundary</li> </ul>		<ul style="list-style-type: none"> <li>Planning authority boundary</li> <li>Watercourse diversion</li> <li>Existing watercourse</li> <li>Ditches - new</li> <li>Hedgerow habitat creation</li> <li>Main utility works (UT)</li> <li>Existing public right of way (PRoW)</li> <li>New, diverted or realigned PRoW</li> </ul>		<ul style="list-style-type: none"> <li>Stopped-up PRoW</li> <li>Tunnels external extent</li> <li>Rail alignment</li> <li>HS2 Access road</li> <li>Noise fence barrier</li> <li>Chainage (e.g. 10+000)</li> </ul>		<b>Map Number</b> <b>S17-OP-115</b>	
<b>Map Name</b> <b>Operational Phase</b> <b>Sch 17 Planning Context Report Plan</b>		<b>Planning Authority Area</b> North Warwickshire Borough Council / Lichfield District		<b>Map Name</b> <b>Operational Phase</b> <b>Sch 17 Planning Context Report Plan</b>		<b>Scale at A3: 1:5,000</b> 0 50 100 150 200 250 Metres		Registered in England. Registration number 06791895 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA	© Crown copyright and database rights 2017 Ordnance Survey. Licence Number: 100049160	Doc Number: C223-HS2-TL-DPL-030-623300 P00.1 Date:	



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
	Temporary replacement community facility
	Planning authority 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
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-116a**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council/Lichfield District

hs2

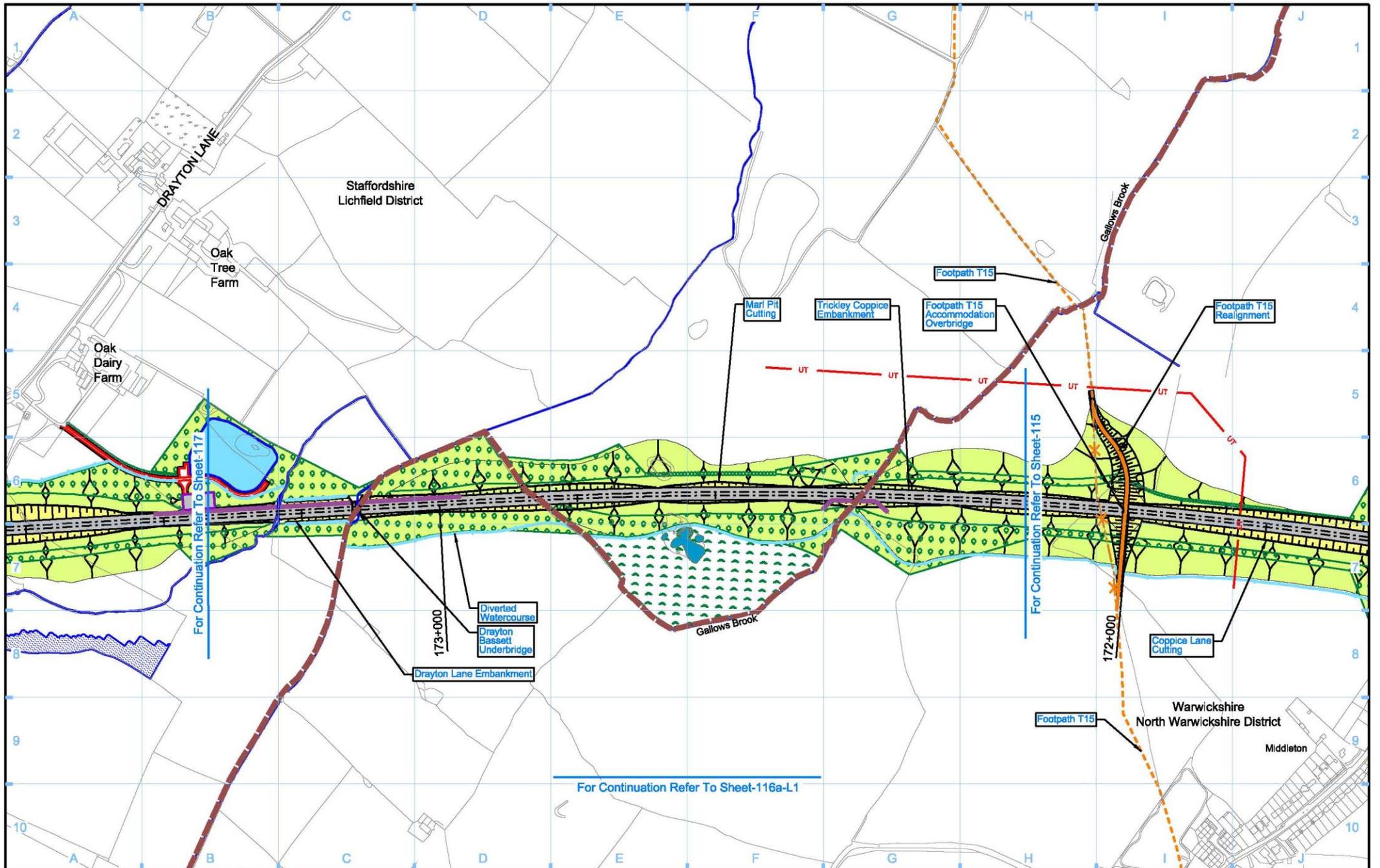
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Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA

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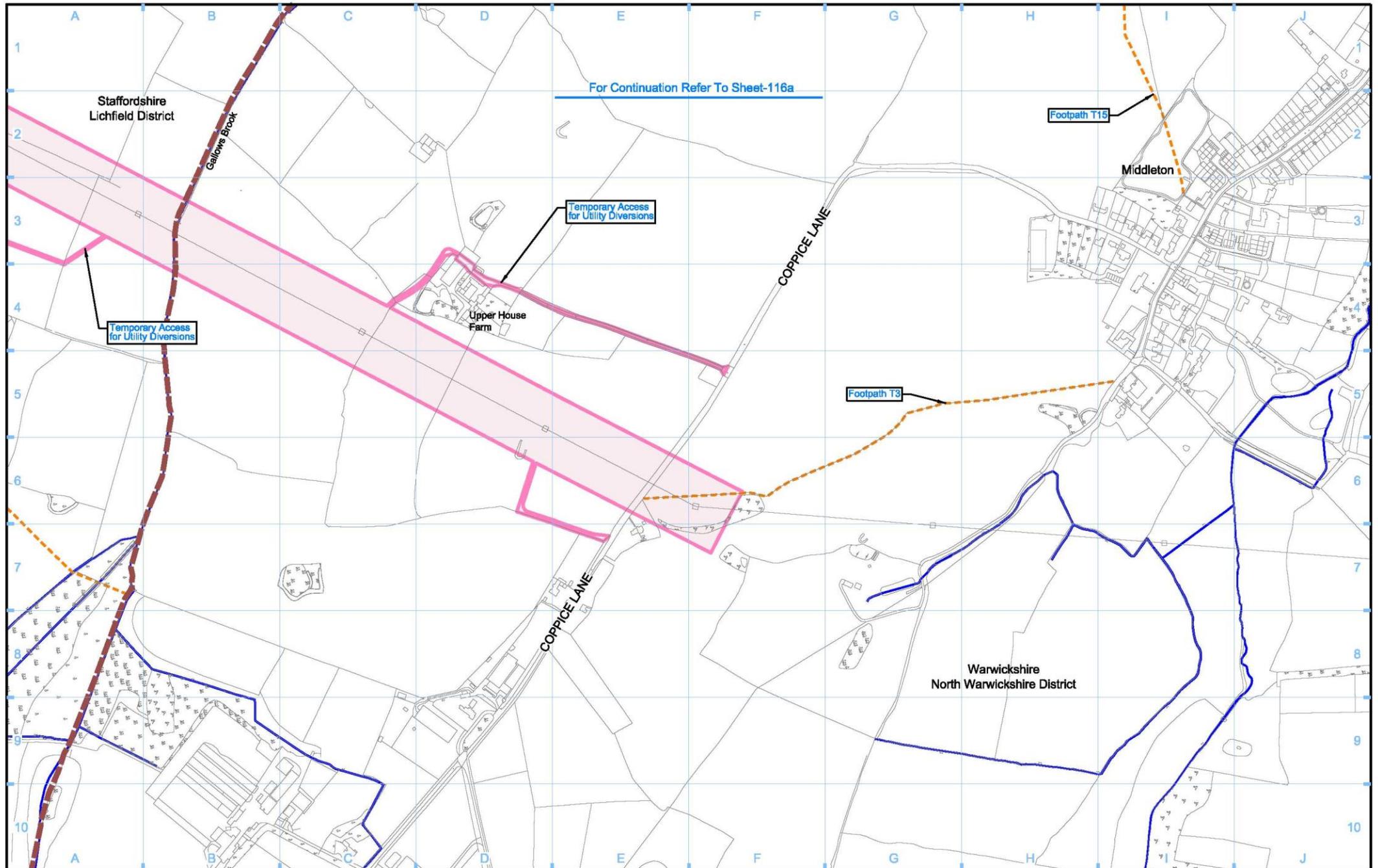
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Doc Number: C223-HS2-TP-DPL-030-523500 P00.1 Date:



<b>Legend</b> <ul style="list-style-type: none"> <li>Depot, station, headhouse or portal building</li> <li>Tunnel portal</li> <li>Electricity substation</li> <li>Land drainage area</li> <li>Ecological mitigation pond</li> <li>Balancing pond</li> <li>Replacement floodplain storage</li> <li>Woodland habitat creation</li> <li>Wetland habitat creation</li> <li>Grassland habitat creation</li> <li>Landscape mitigation planting (scrub / woodland)</li> <li>Grassed areas</li> <li>Sustainable placement</li> <li>Public realm/Replacement community facility</li> <li>Engineering earthworks</li> <li>Landscape earthworks</li> <li>Rail alignment formation</li> <li>Returned to suitable development use</li> <li>County boundary</li> <li>Borough / District boundary</li> <li>Planning authority boundary</li> <li>Watercourse diversion</li> <li>Existing watercourse</li> <li>Ditches - new</li> <li>Hedgerow habitat creation</li> <li>Main utility works</li> <li>Existing public right of way (PRoW)</li> <li>New, diverted or realigned PRoW</li> <li>Stopped-up PRoW</li> <li>Tunnels external extent</li> <li>Rail alignment</li> <li>HS2 Access road</li> <li>Noise fence barrier</li> <li>Chainage (e.g. 10+000)</li> </ul>		<b>Map Number</b> <b>S17-OP-116a</b> <b>Operational Phase</b> <b>Sch 17 Planning Context Report Plan</b> <b>Map Name</b> <b>Planning Authority Area:</b> North Warwickshire Borough Council / Lichfield District	<p>Registered in England. Registration number 06791895          Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA</p> <p>© Crown copyright and database rights 2017          Ordnance Survey. License Number 100049160</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250          Metres</p> <p>Doc Number: C223-HS2-TP-DPL-030-623500 P00.1 Date:</p>
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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
	Temporary replacement community facility
	Planning authority boundary
	Existing watercourse
	Tunnels external extent
	Construction traffic route
	Existing public right of way (PRoW)
	Temporary PRoW diversion / realignment
	Temporary highway diversion / realignment
	UT - Main utility works
	New, diverted or realigned PRoW
	Stopped-up PRoW
	Rail alignment
	Chainage (e.g. 10+000)

Map Number: **HS2-CP-116a-L1**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council/Lichfield District

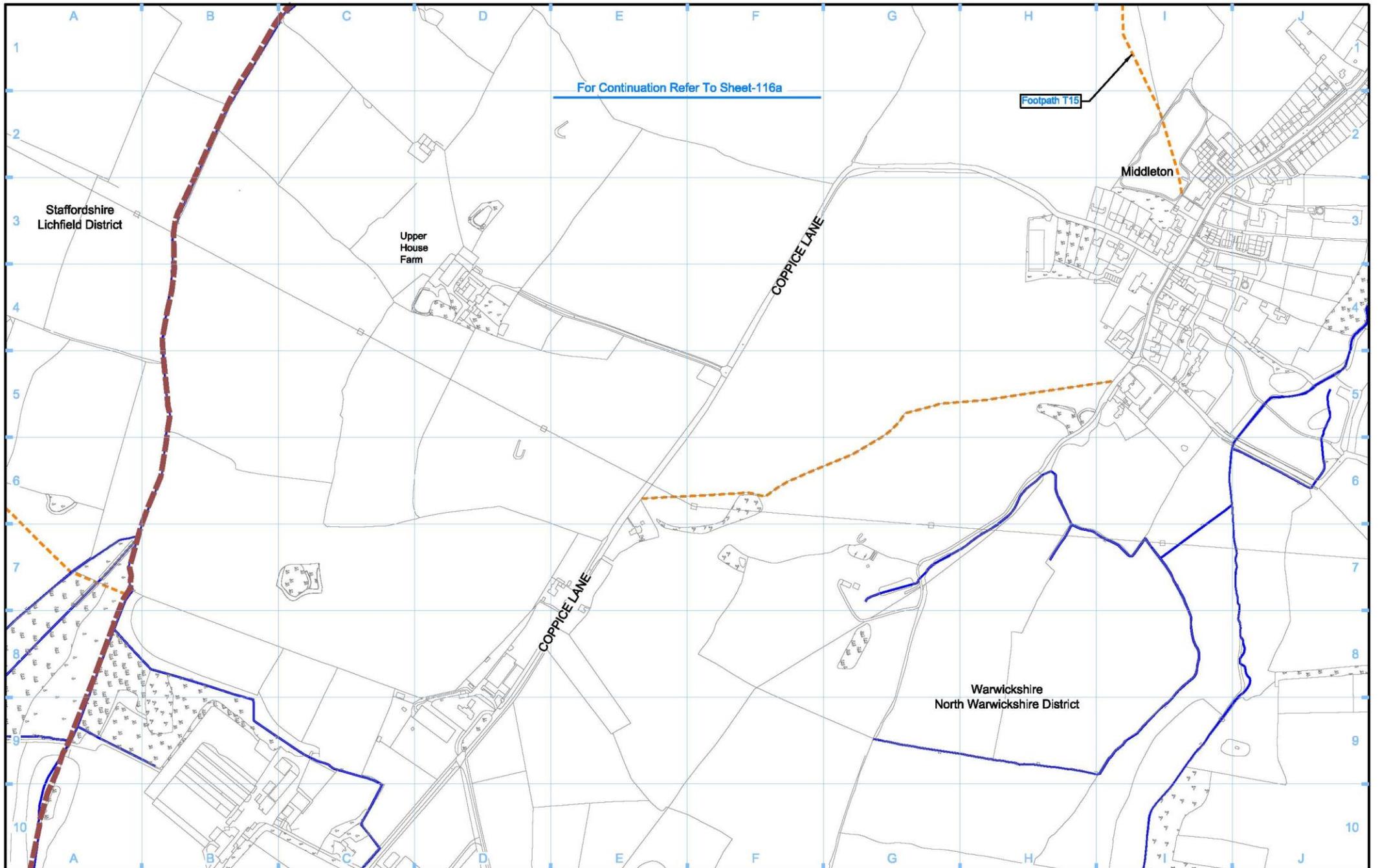
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Legend	
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	Tunnel portal
	Electricity substation
	Land drainage area
	Ecological mitigation pond
	Balancing pond
	Replacement floodplain storage
	Woodland habitat creation
	Wetland habitat creation
	Grassland habitat creation
	Landscape mitigation planting (scrub / woodland)
	Grassed areas
	Sustainable placement
	Public realm/Replacement community facility
	Engineering earthworks
	Landscape earthworks
	Rail alignment formation
	Returned to suitable development use
	County boundary
	Borough / District boundary
	Planning authority 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: **S17-OP-116a-L1**

Map Name: **Operational Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council / Lichfield District

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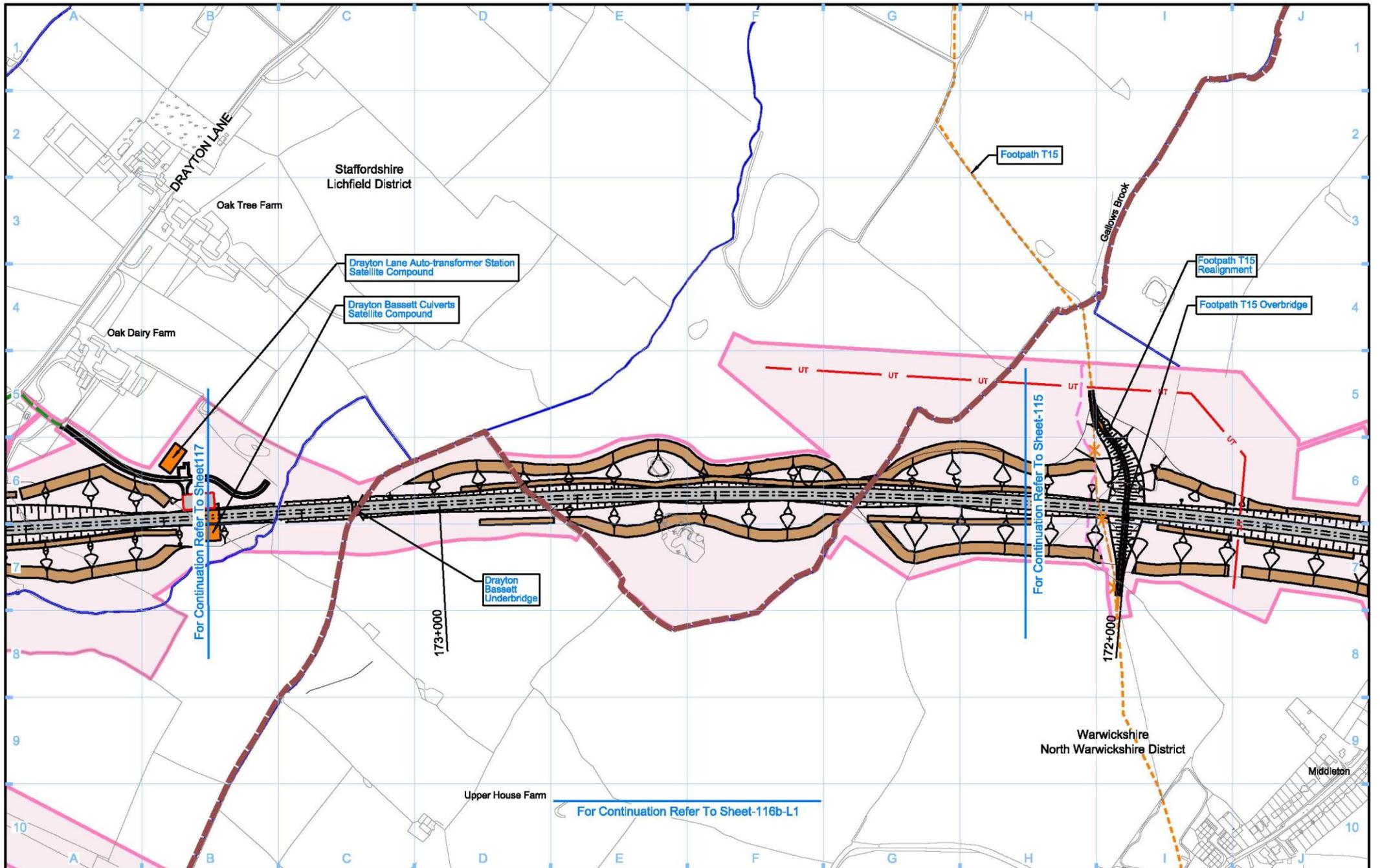
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Metres

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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
	Temporary replacement community facility
	Planning authority 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
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-116b**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council/Lichfield District

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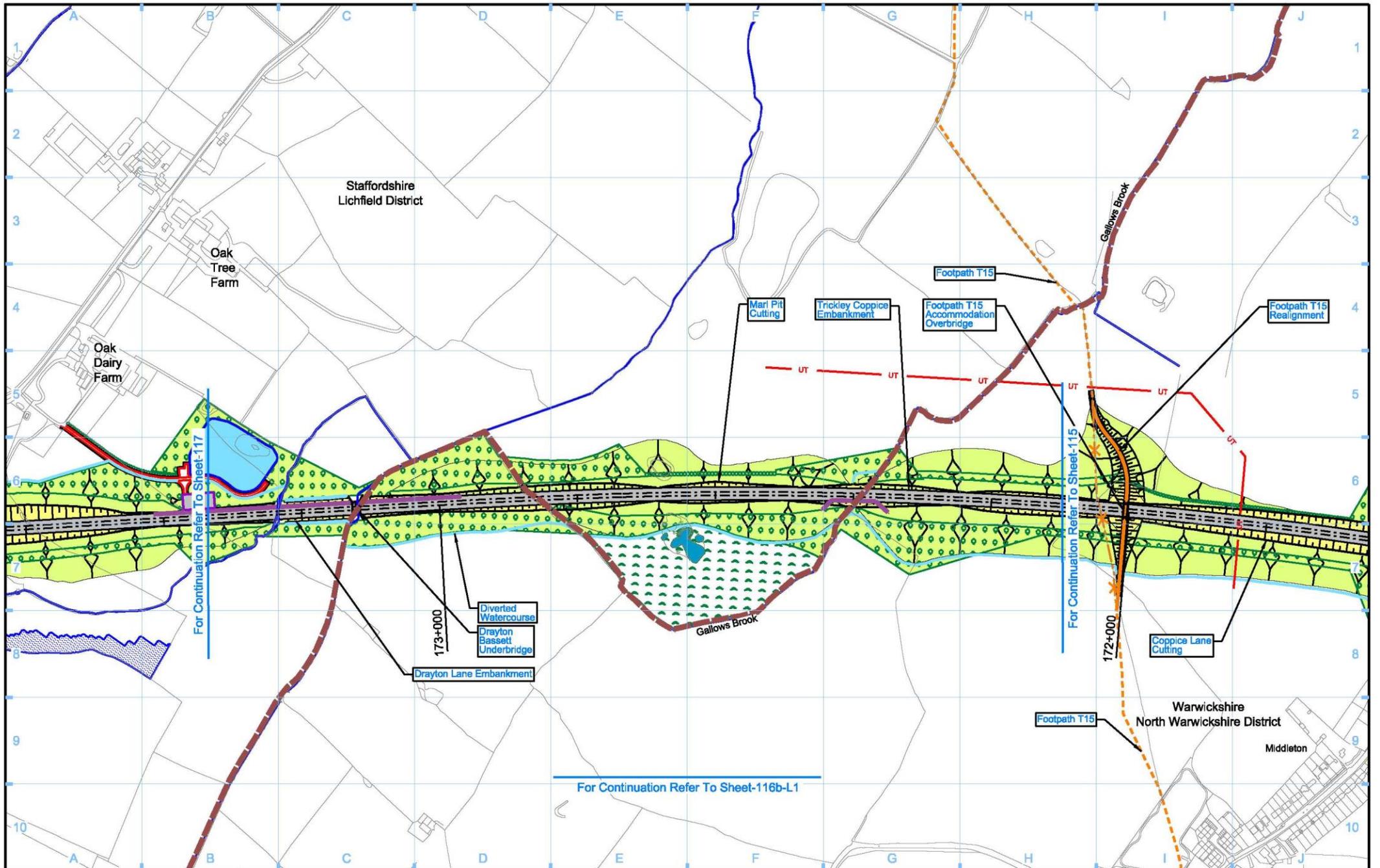
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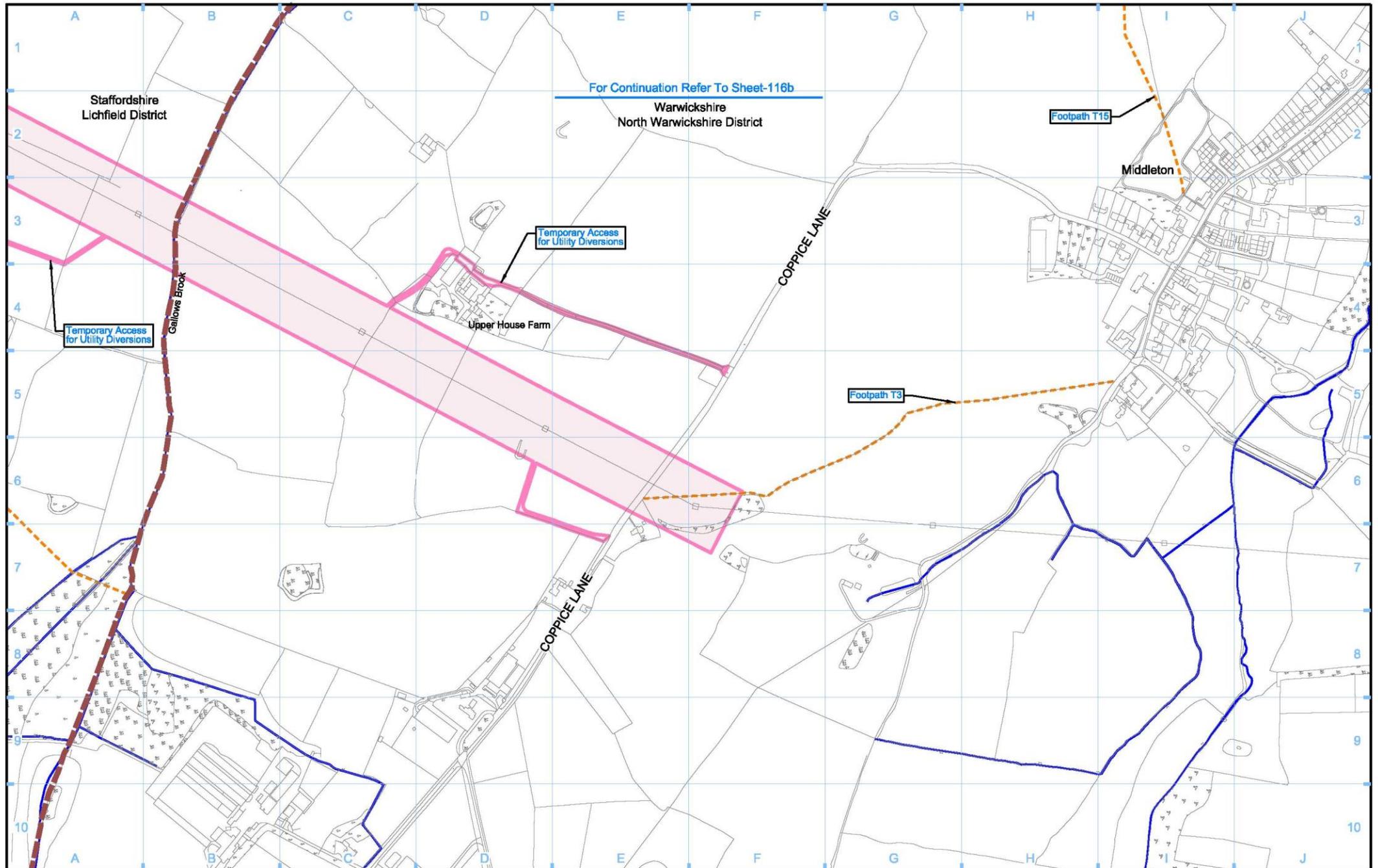
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compound
	Satellite construction compound
	Temporary material stockpile
	Rail alignment formation
	Landscape earthworks
	Engineering earthworks
	County boundary
	Borough / District boundary
	Land potentially required during construction
	Temporary replacement community facility
	Planning authority 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
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-116b-L1**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: North Warwickshire Borough Council/Lichfield District

**hs2**

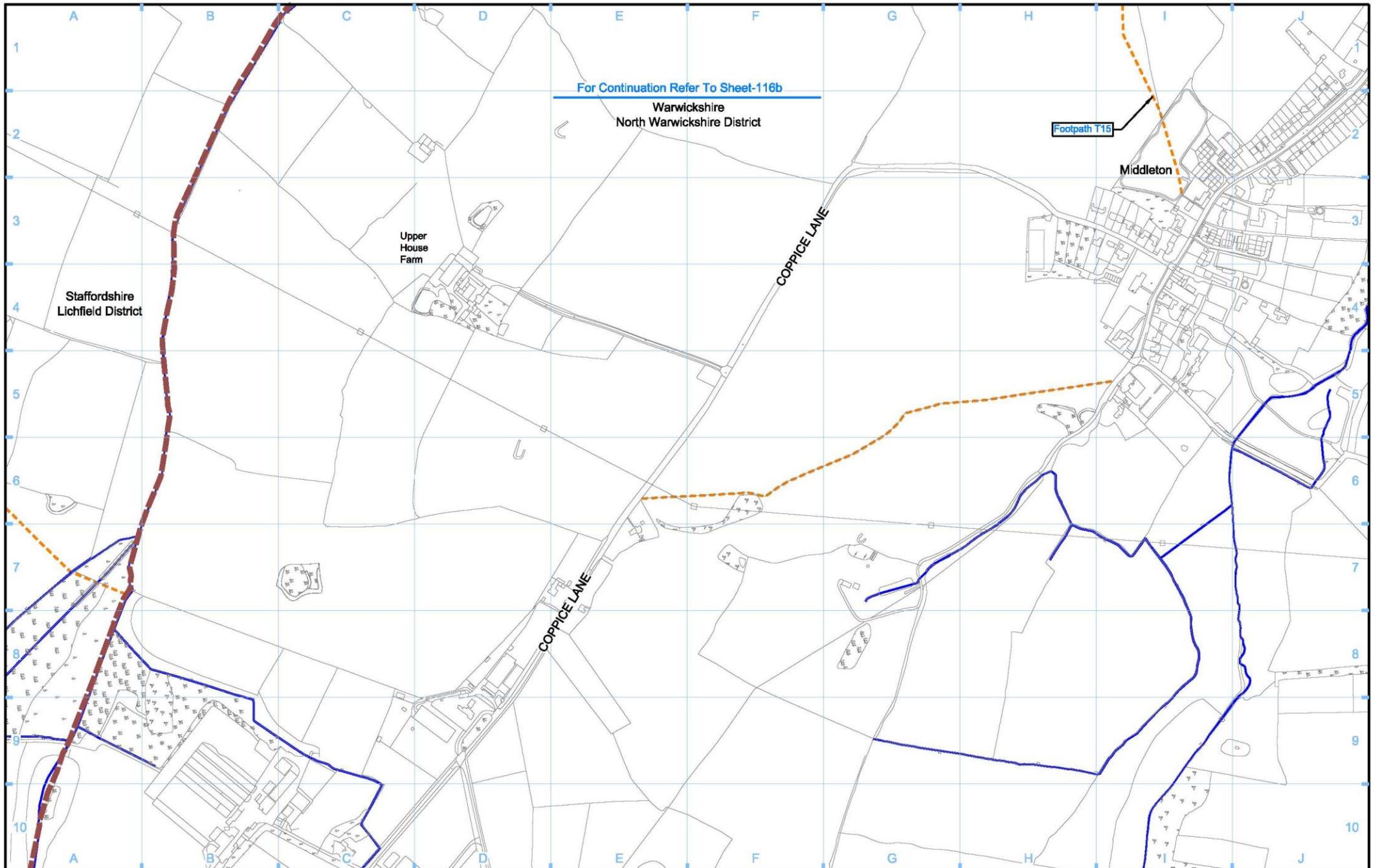
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Metres

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For Continuation Refer To Sheet-116b

Warwickshire  
North Warwickshire District

Footpath T15

Middleton

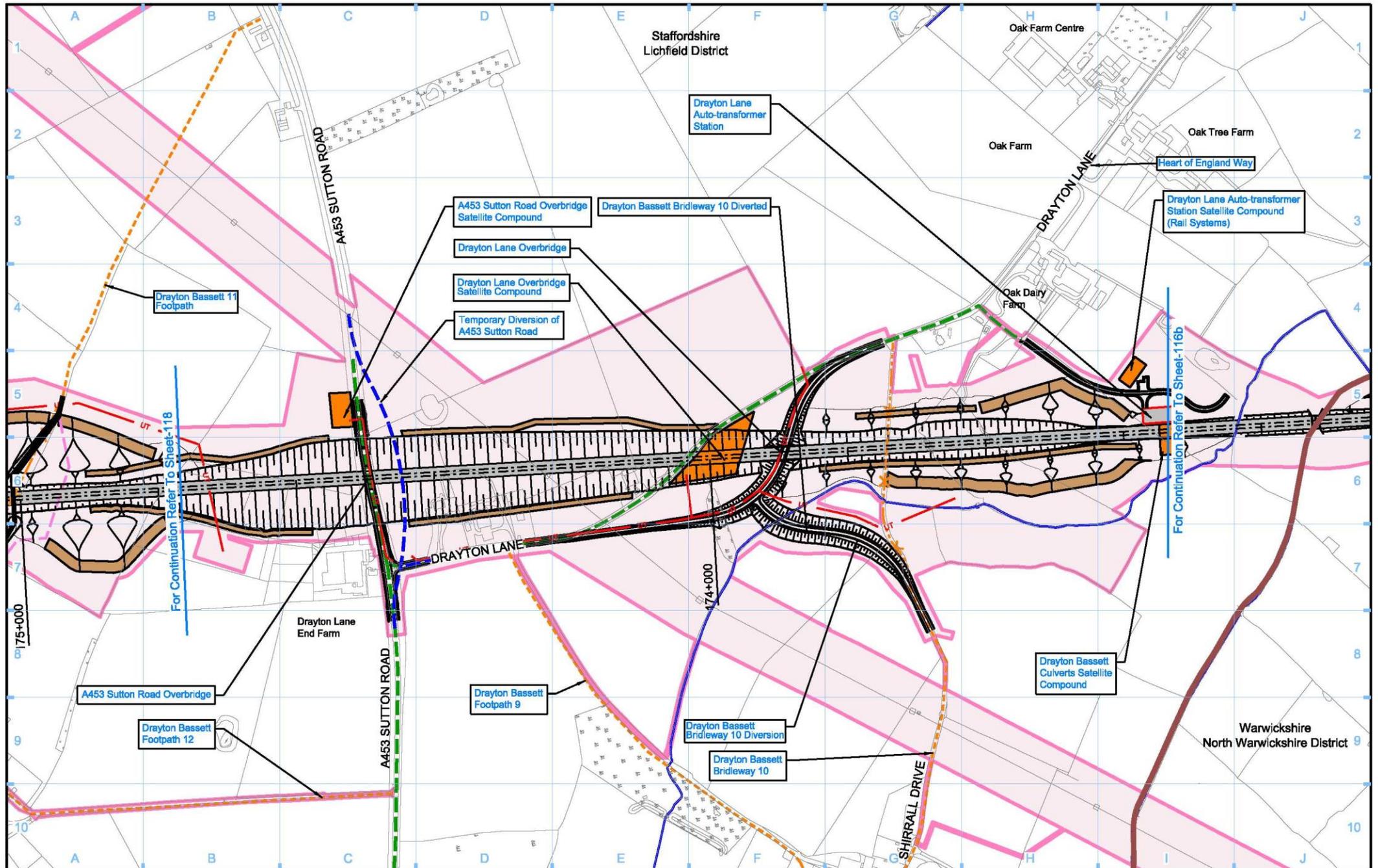
Staffordshire  
Lichfield District

Upper  
House  
Farm

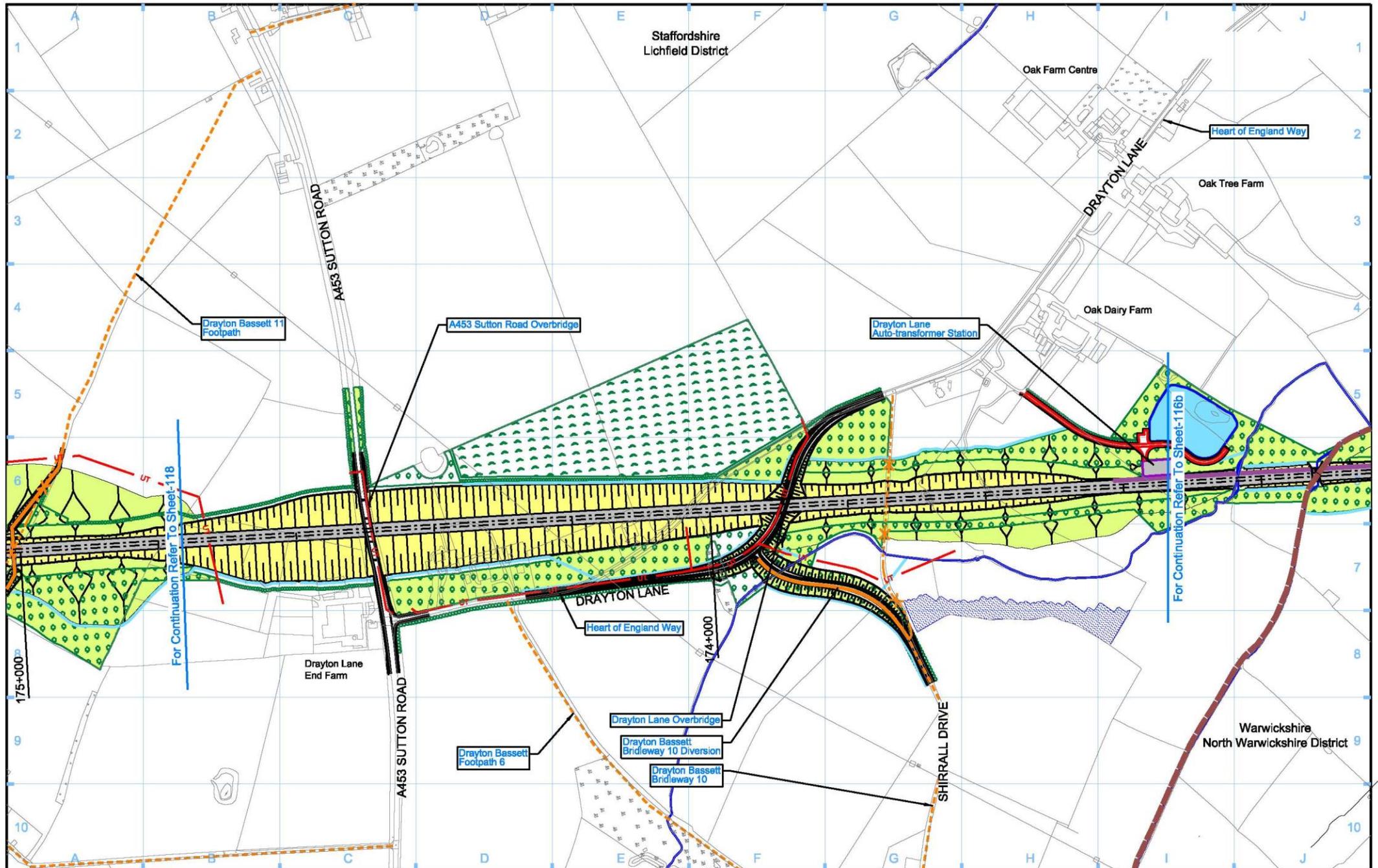
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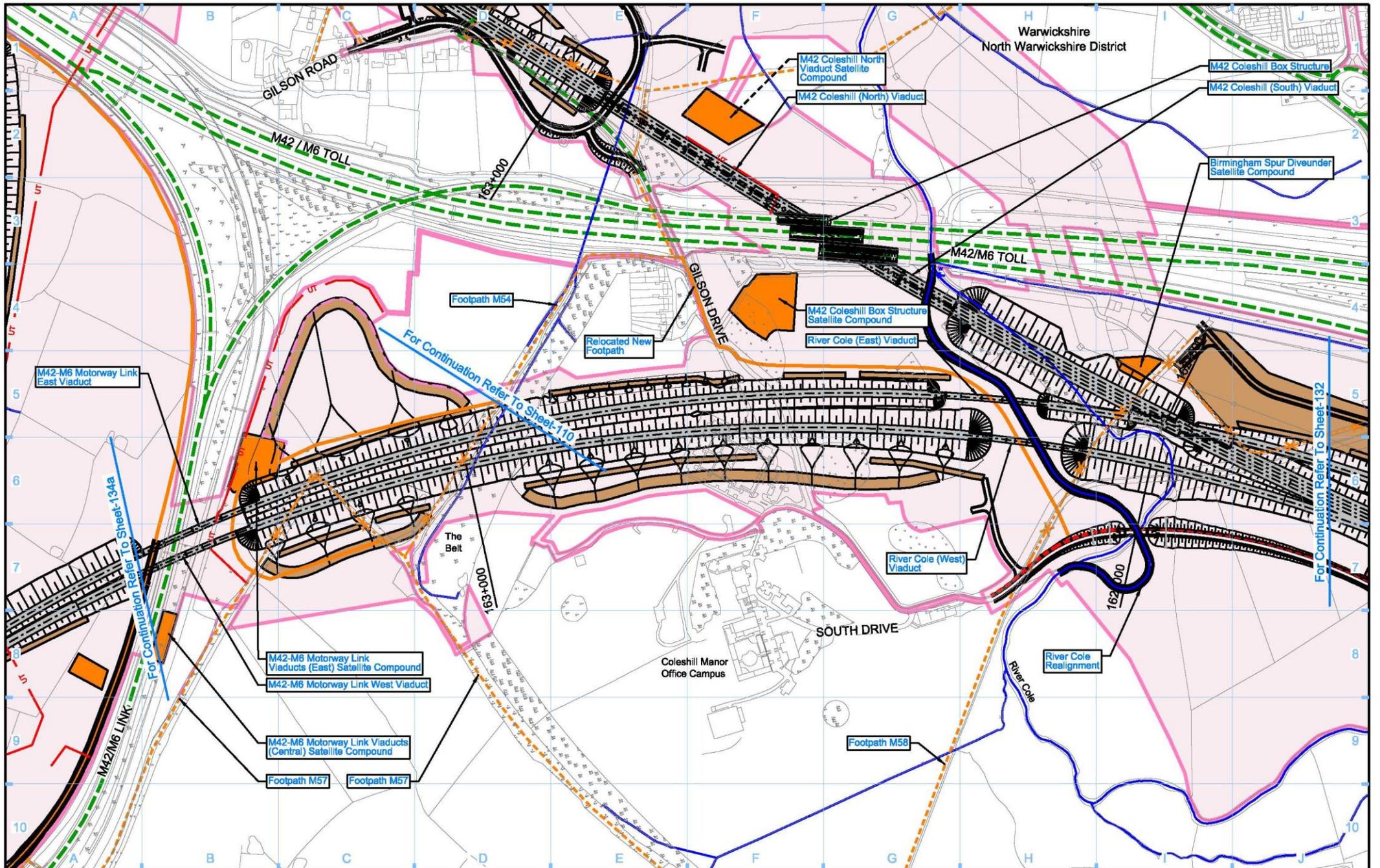
<b>Legend</b> 		<b>Map Number</b> <b>S17-OP-116b-L1</b> <b>Map Name</b> <b>Operational Phase</b> <b>Sch 17 Planning Context Report Plan</b> <b>Planning Authority Area</b> North Warwickshire Borough Council / Lichfield District	 <small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small> <small>Registered in England. Registration number 06791995 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA</small> <b>Scale at A3: 1:5,000</b>  <small>© Crown copyright and database rights 2017 Ordnance Survey. License Number 100049160</small> <b>Doc Number:</b> C223-HS2-TP-DPL-030-623512 <b>P00.1</b> <b>Date:</b>
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<b>Legend</b> <ul style="list-style-type: none"> <li>Depot, station, headhouse or portal building</li> <li>Tunnel portal</li> <li>Main construction compound</li> <li>Satellite construction compound</li> <li>Temporary material stockpile</li> </ul>		<ul style="list-style-type: none"> <li>Rail alignment formation</li> <li>Landscape earthworks</li> <li>Engineering earthworks</li> <li>County boundary</li> <li>Borough / District boundary</li> <li>Land potentially required during construction</li> </ul>		<ul style="list-style-type: none"> <li>Temporary replacement community facility</li> <li>Planning authority boundary</li> <li>Existing watercourse</li> <li>Tunnels external extent</li> <li>Construction traffic route</li> <li>Existing public right of way (PRoW)</li> </ul>		<ul style="list-style-type: none"> <li>New, diverted or realigned PRoW</li> <li>Stopped-up PRoW</li> <li>Temporary PRoW diversion / realignment</li> <li>Temporary highway diversion / realignment</li> <li>UT - Main utility works</li> </ul>		<ul style="list-style-type: none"> <li>Chainage (e.g. 10+000)</li> <li>Rail alignment</li> </ul>		<p>Map Number: <b>S17-CP-117</b></p> <p>Map Name: <b>Construction Phase Sch 17 Planning Context Report Plan</b></p> <p>Planning Authority Area: North Warwickshire Borough Council/Lichfield District</p>		<p>hs2</p> <p>Registered in England. Registration number 06791866 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250 Metres</p> <p>© Crown copyright and database rights 2017 Ordnance Survey Licence Number 100049160</p> <p>Doc Number: C223-HS2-TP-DPL-030-523711 P00.1 Date:</p>	
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<b>Legend</b> <ul style="list-style-type: none"> <li>Depot, station, headhouse or portal building</li> <li>Tunnel portal</li> <li>Electricity substation</li> <li>Land drainage area</li> <li>Ecological mitigation pond</li> <li>Balancing pond</li> </ul>		<ul style="list-style-type: none"> <li>Replacement floodplain storage</li> <li>Woodland habitat creation</li> <li>Wetland habitat creation</li> <li>Grassland habitat creation</li> <li>Landscape mitigation planting (scrub / woodland)</li> <li>Grassed areas</li> <li>Sustainable placement</li> </ul>		<ul style="list-style-type: none"> <li>Public realm/Replacement community facility</li> <li>Engineering earthworks</li> <li>Landscape earthworks</li> <li>Rail alignment formation</li> <li>Returned to suitable development use</li> <li>County boundary</li> <li>Borough / District boundary</li> </ul>		<ul style="list-style-type: none"> <li>Planning authority boundary</li> <li>Watercourse diversion</li> <li>Existing watercourse</li> <li>Ditches - new</li> <li>Hedgerow habitat creation</li> <li>Main utility works</li> <li>Existing public right of way (PRoW)</li> <li>New, diverted or realigned PRoW</li> </ul>		<ul style="list-style-type: none"> <li>Stopped-up PRoW</li> <li>Tunnels external extent</li> <li>Rail alignment</li> <li>HS2 Access road</li> <li>Noise fence barrier</li> <li>Chainage (e.g. 10+000)</li> </ul>		<b>Map Number</b> <b>S17-OP-117</b> <b>Operational Phase</b> <b>Sch 17 Planning Context Report Plan</b> <b>Planning Authority Area:</b> North Warwickshire Borough Council / Lichfield District	<p>Registered in England. Registration number 06791895          Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250          Metres</p> <p>© Crown copyright and database rights 2017          Ordnance Survey Licence Number 100049160</p> <p>Doc Number: C223-HS2-TP-DPL-030-623711 P00.1 Date:</p>
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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
	Temporary replacement community facility
	Planning authority 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
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-133**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: **North Warwickshire Borough Council**

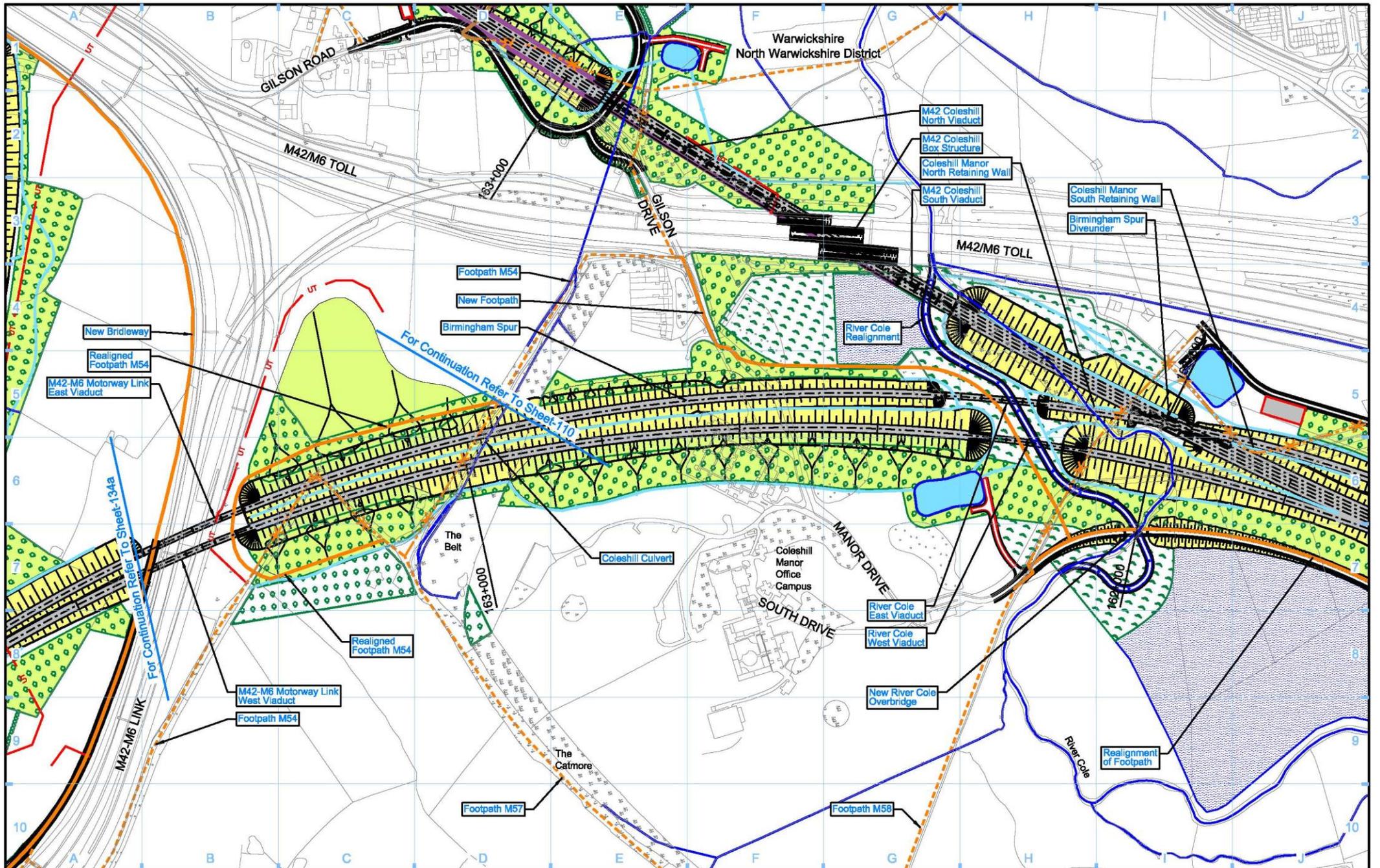
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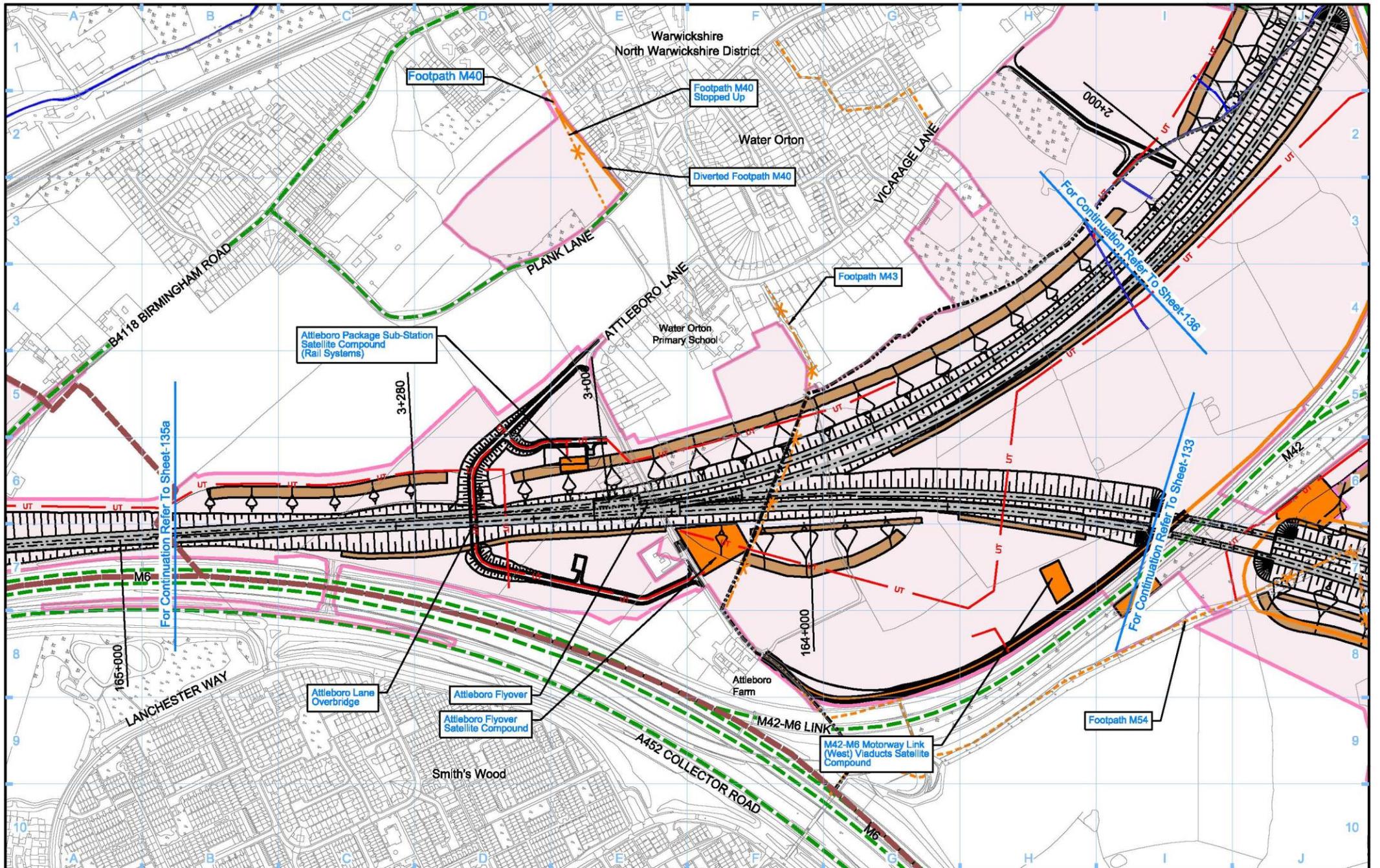
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Legend	
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	Tunnel portal
	Main construction compound
	Satellite construction compound
	Temporary material stockpile
	Rail alignment formation
	Landscape earthworks
	Engineering earthworks
	County boundary
	Borough / District boundary
	Land potentially required during construction
	Temporary replacement community facility
	Planning authority 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
	Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-134a**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: **North Warwickshire Borough Council / Solihull Metropolitan Borough**

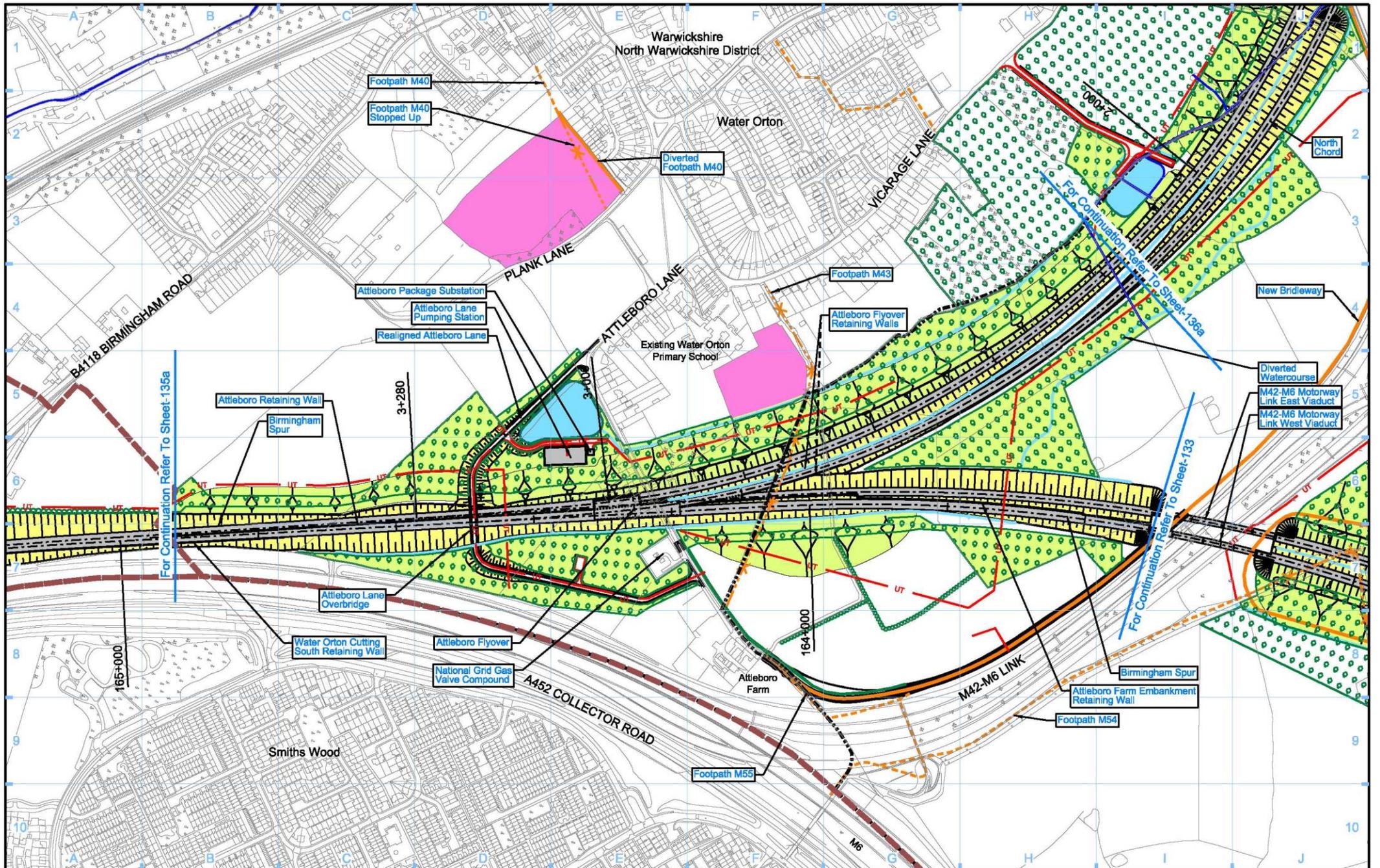
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Electricity substation
	Land drainage area
	Ecological mitigation pond
	Balancing pond
	Replacement floodplain storage
	Woodland habitat creation
	Wetland habitat creation
	Grassland habitat creation
	Landscape mitigation planting (scrub / woodland)
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	Sustainable placement
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	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: **S17-OP-134a**

Map Name: **Operational Phase Sch 17 Planning Context Report Plan**

Planning Authority/Area: **North Warwickshire Borough Council/ Solihull Metropolitan Borough**

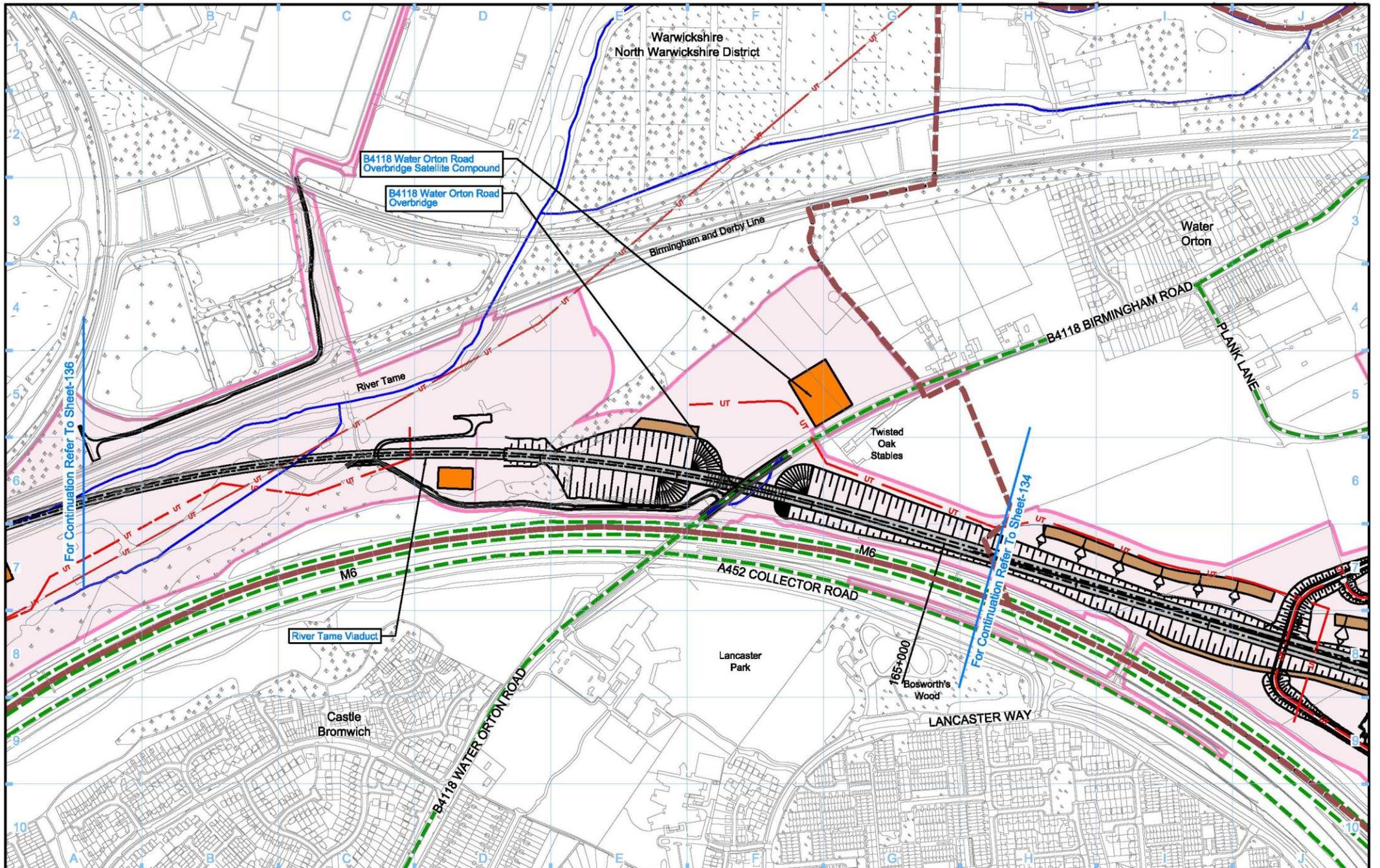
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compound
	Satellite construction compound
	Temporary material stockpile
	Rail alignment formation
	Landscape earthworks
	Engineering earthworks
	County boundary
	Borough / District boundary
	Temporary replacement community facility
	Planning authority boundary
	Existing watercourse
	Tunnels external extent
	Construction traffic route
	Existing public right of way (PRoW)
	Temporary PRoW diversion / realignment
	Temporary highway diversion / realignment
	Main utility works
	New, diverted or realigned PRoW
	Stopped-up PRoW
	Rail alignment
	Land potentially required during construction

Map Number: **S17-CP-135a**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: **North Warwickshire Borough Council / Solihull Metropolitan Borough / Birmingham City Council**

Chainage (e.g. 10+000): **10+000**

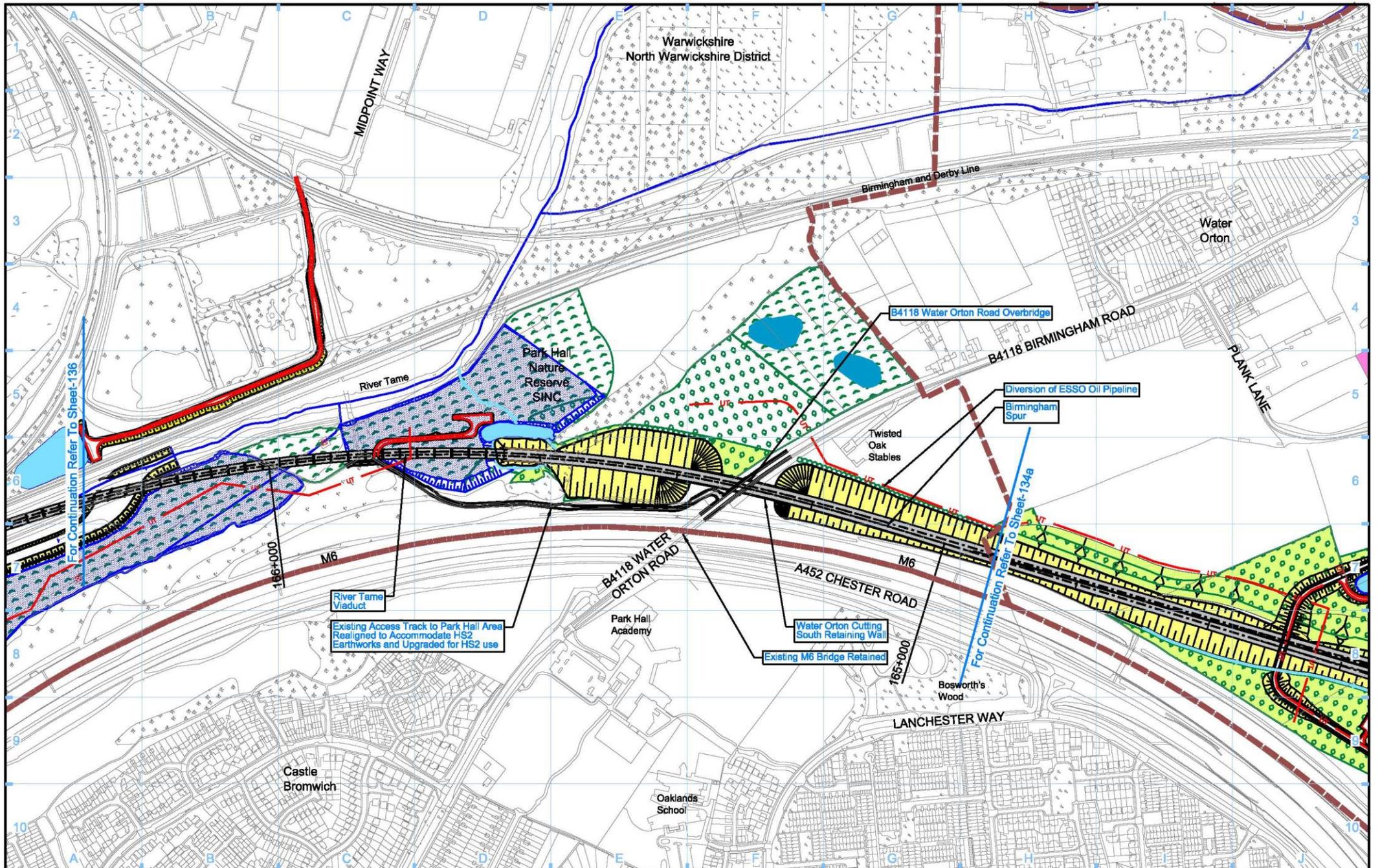
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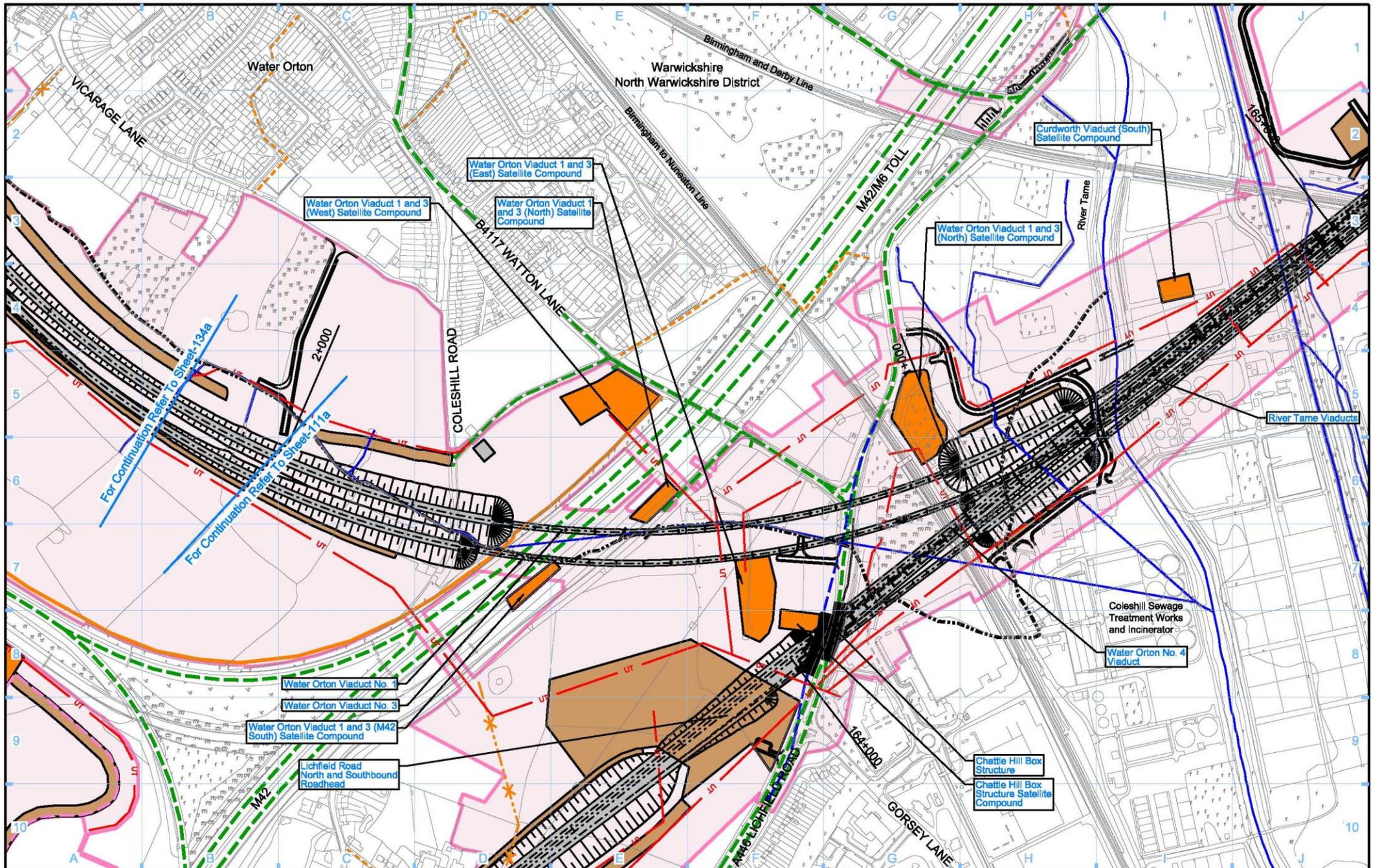
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<b>Legend</b> <ul style="list-style-type: none"> <li>Depot, station, headhouse or portal building</li> <li>Tunnel portal</li> <li>Electricity substation</li> <li>Land drainage area</li> <li>Ecological mitigation pond</li> <li>Balancing pond</li> <li>Replacement floodplain storage</li> <li>Woodland habitat creation</li> <li>Wetland habitat creation</li> <li>Grassland habitat creation</li> <li>Landscape mitigation planting (scrub / woodland)</li> <li>Grassed areas</li> <li>Sustainable placement</li> <li>Public realm/Replacement community facility</li> <li>Engineering earthworks</li> <li>Landscape earthworks</li> <li>Rail alignment formation</li> <li>Returned to suitable development use</li> <li>County boundary</li> <li>Borough / District boundary</li> <li>Planning authority boundary</li> <li>Watercourse diversion</li> <li>Existing watercourse</li> <li>Ditches - new</li> <li>Hedgerow habitat creation</li> <li>Main utility works</li> <li>Existing public right of way (PRoW)</li> <li>New, diverted or realigned PRoW</li> <li>Stopped-up PRoW</li> <li>Tunnels external extent</li> <li>Rail alignment</li> <li>HS2 Access road</li> <li>Noise fence barrier</li> <li>Chainage (e.g. 10+000)</li> </ul>		<p>Map Number <b>S17-OP-135a</b></p> <p>Map Name <b>Operational Phase Sch 17 Planning Context Report Plan</b></p> <p>Planning Authority Area North Warwickshire Borough Council / Solihull Metropolitan Borough / Birmingham City Council</p>	<p>hs2</p> <p>Registered in England. Registration number 06791895 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250 Metres</p> <p>© Crown copyright and database rights 2017 Ordnance Survey. License Number 100049160</p> <p>Doc Number: C223-HS2-TP-DPL-030-626700 P00.1 Date:</p>
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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
	Temporary replacement community facility
	Planning authority 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
	Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **S17-CP-136a**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: **North Warwickshire Borough Council**

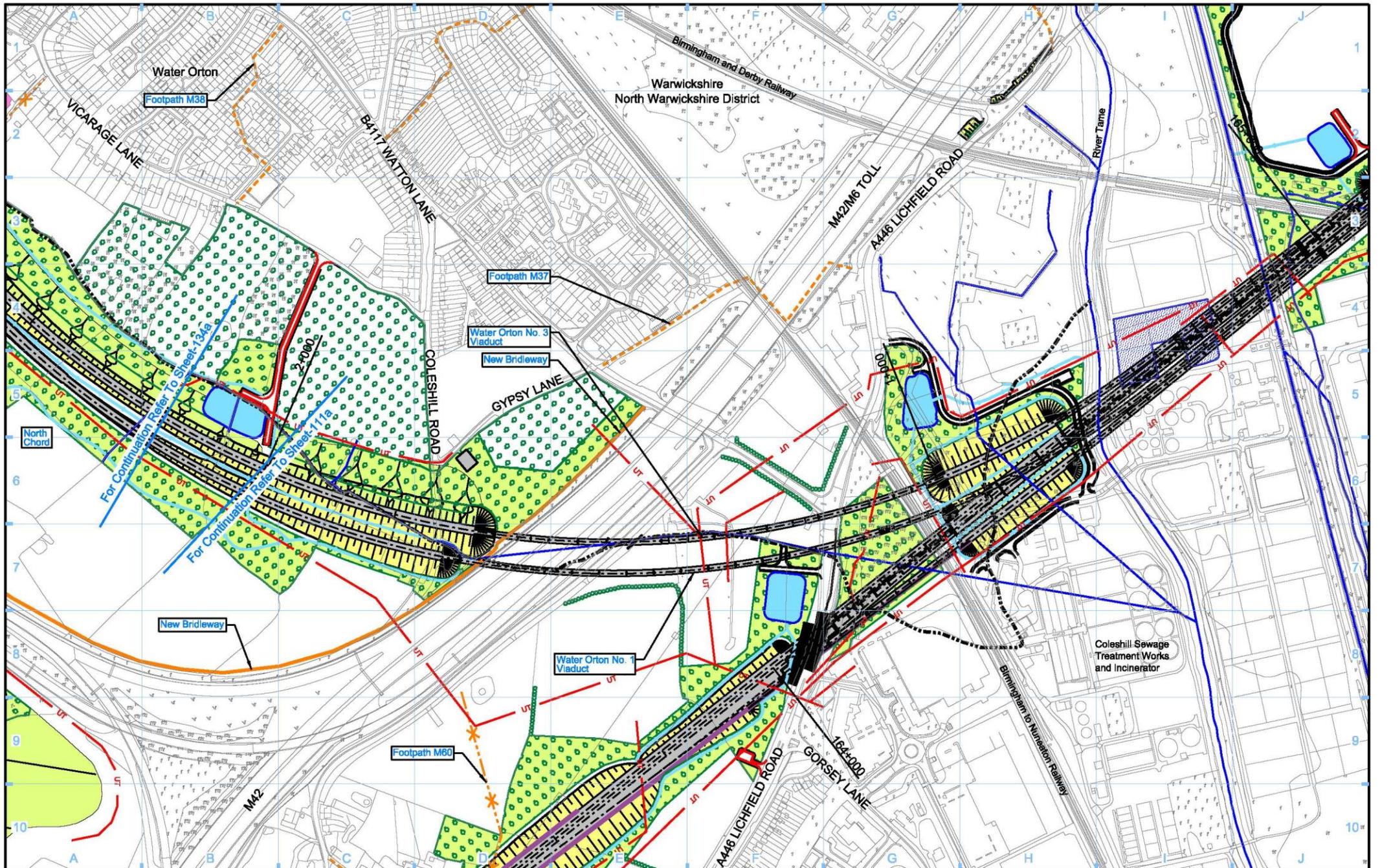
**hs2**

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Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA

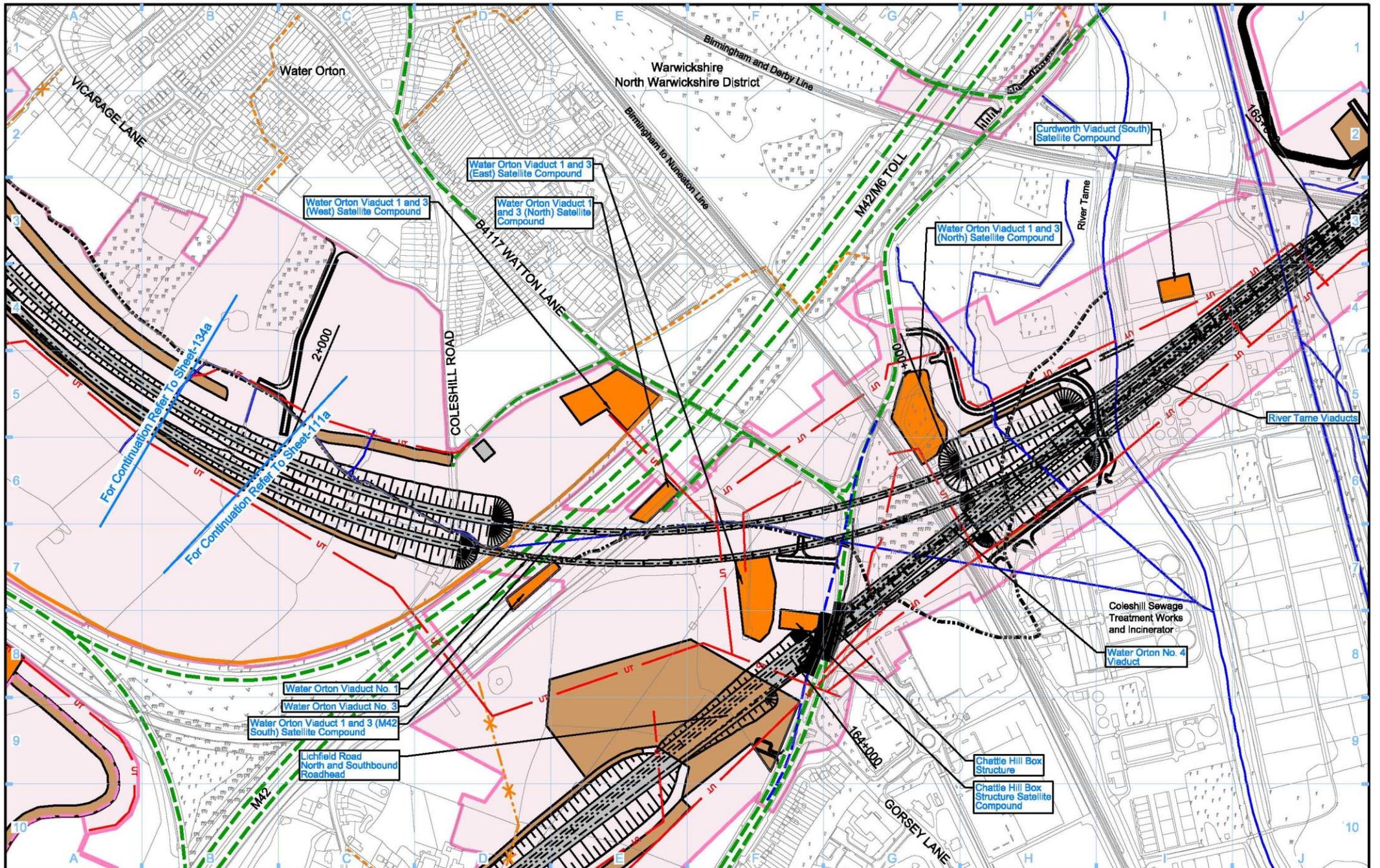
Scale at A3: 1:5,000

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Doc Number: C223-HS2-TP-DPL-030-528500 P00.1 Date:



<b>Legend</b> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: red; border: 1px solid black;"></span> Depot, station, headhouse or portal building</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: blue; border: 1px solid black;"></span> Tunnel portal</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: purple; border: 1px solid black;"></span> Electricity substation</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: lightblue; border: 1px solid black;"></span> Land drainage area</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: cyan; border: 1px solid black;"></span> Ecological mitigation pond</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: lightblue; border: 1px solid black;"></span> Balancing pond</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: lightgreen; border: 1px solid black;"></span> Replacement floodplain storage</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: green; border: 1px solid black;"></span> Woodland habitat creation</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: lightgreen; border: 1px solid black;"></span> Wetland habitat creation</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: green; border: 1px solid black;"></span> Grassland habitat creation</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: lightgreen; border: 1px solid black;"></span> Landscape mitigation planting (scrub / woodland)</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: lightgreen; border: 1px solid black;"></span> Grassed areas</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: green; border: 1px solid black;"></span> Sustainable placement</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: yellow; border: 1px solid black;"></span> Public realm/Replacement community facility</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: yellow; border: 1px solid black;"></span> Engineering earthworks</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: yellow; border: 1px solid black;"></span> Landscape earthworks</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: grey; border: 1px solid black;"></span> Rail alignment formation</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: grey; border: 1px solid black;"></span> Returned to suitable development use</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> County boundary</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> Borough / District boundary</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> Planning authority boundary</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> Watercourse diversion</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> Existing watercourse</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> Ditches - new</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> Hedgerow habitat creation</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> Main utility works</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> Existing public right of way (PRoW)</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> New, diverted or realigned PRoW</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> Stopped-up PRoW</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> Tunnels external extent</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> Rail alignment</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> HS2 Access road</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> Noise fence barrier</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black;"></span> Chainage (e.g. 10+000)</li> </ul>		<p>Map Number: <b>S17-OP-136a</b></p> <p>Map Name: <b>Operational Phase Sch 17 Planning Context Report Plan</b></p> <p>Planning Authority Area: <b>North Warwickshire Borough Council</b></p>	<p>hs2</p> <p>Registered in England. Registration number 06791895 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250 Metres</p> <p>© Crown copyright and database rights 2017 Ordnance Survey. Licence Number 100049160</p> <p>Doc Number: C223-HS2-TP-DPL-030-628500 P00.1 Date:</p>
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Legend			
	Depot, station, headhouse or portal building		Rail alignment formation
	Tunnel portal		Landscape earthworks
	Main construction compound		Engineering earthworks
	Satellite construction compound		County boundary
	Temporary material stockpile		Borough / District boundary
	Land potentially required during construction		Temporary replacement community facility
	Temporary PRoW diversion / realignment		Planning authority boundary
	Temporary highway diversion / realignment		Existing watercourse
	Main utility works		Tunnels external extent
	Stopped-up PRoW		Construction traffic route
	Rail alignment		Existing public right of way (PRoW)
	Chainage (e.g. 10+000)		Temporary PRoW diversion / realignment
	Rail alignment		Temporary highway diversion / realignment

Map Number: **S17-CP-136b**

Map Name: **Construction Phase Sch 17 Planning Context Report Plan**

Planning Authority Area: **North Warwickshire Borough Council**

**hs2**

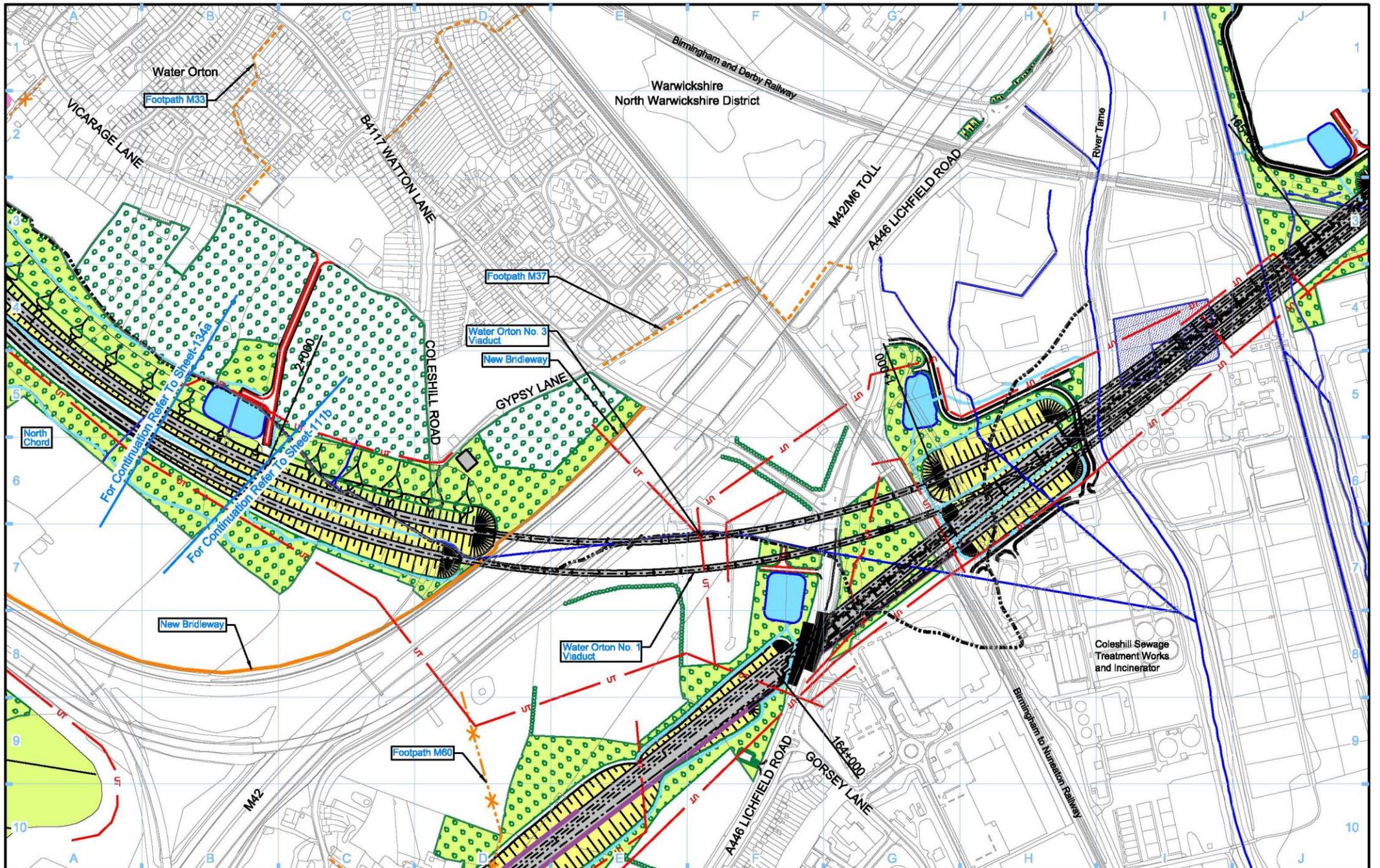
Registered in England. Registration number 06791866  
Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA

Scale at A3: 1:5,000

0 50 100 150 200 250 Metres

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Doc Number: C223-HS2-TP-DPL-030-528510 P00.1 Date:



<b>Legend</b> <ul style="list-style-type: none"> <li>Depot, station, headhouse or portal building</li> <li>Tunnel portal</li> <li>Electricity substation</li> <li>Land drainage area</li> <li>Ecological mitigation pond</li> <li>Balancing pond</li> <li>Replacement floodplain storage</li> <li>Woodland habitat creation</li> <li>Wetland habitat creation</li> <li>Grassland habitat creation</li> <li>Landscape mitigation planting (scrub / woodland)</li> <li>Grassed areas</li> <li>Sustainable placement</li> <li>Public realm/Replacement community facility</li> <li>Engineering earthworks</li> <li>Landscape earthworks</li> <li>Rail alignment formation</li> <li>Returned to suitable development use</li> <li>County boundary</li> <li>Borough / District boundary</li> <li>Planning authority boundary</li> <li>Watercourse diversion</li> <li>Existing watercourse</li> <li>Ditches - new</li> <li>Hedgerow habitat creation</li> <li>Main utility works</li> <li>Existing public right of way (PRoW)</li> <li>New, diverted or realigned PRoW</li> <li>Stopped-up PRoW</li> <li>Tunnels external extent</li> <li>Rail alignment</li> <li>HS2 Access road</li> <li>Noise fence barrier</li> <li>Chainage (e.g. 10+000)</li> </ul>		<p>Map Number: <b>S17-OP-136b</b></p> <p>Map Name: <b>Operational Phase Sch 17 Planning Context Report Plan</b></p> <p>Planning Authority Area: <b>North Warwickshire Borough Council</b></p>	<p>hs2</p> <p>Registered in England. Registration number 06791895 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6QA</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250 Metres</p> <p>© Crown copyright and database rights 2017 Ordnance Survey. Licence Number 100049160</p> <p>Doc Number: C223-HS2-TP-DPL-030-628510 P00.1 Date:</p>
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## Annex 1 – Signposting

Document	Link
High Speed Rail (London – West Midlands) Act 2017	<a href="http://www.legislation.gov.uk/ukpga/2017/7/contents/enacted">http://www.legislation.gov.uk/ukpga/2017/7/contents/enacted</a>
Schedule 17 Fee Regulations	<a href="http://www.legislation.gov.uk/uksi/2017/223/contents/made">http://www.legislation.gov.uk/uksi/2017/223/contents/made</a>
Schedule 17 Appeal Regulations	<a href="http://www.legislation.gov.uk/uksi/2017/227/contents/made">http://www.legislation.gov.uk/uksi/2017/227/contents/made</a>
High Speed Rail (London – West Midlands) Environmental Minimum Requirements	<a href="https://www.gov.uk/government/publications/environmental-minimum-requirements">https://www.gov.uk/government/publications/environmental-minimum-requirements</a>
	<a href="https://www.gov.uk/government/publications/high-speed-rail-london-west-midlands-bill-register-of-undertakings-and-assurances">https://www.gov.uk/government/publications/high-speed-rail-london-west-midlands-bill-register-of-undertakings-and-assurances</a>
Schedule 17 Statutory Guidance	<a href="https://www.gov.uk/government/publications/high-speed-rail-london-to-west-midlands-act-2017-schedule-17-statutory-guidance">https://www.gov.uk/government/publications/high-speed-rail-london-to-west-midlands-act-2017-schedule-17-statutory-guidance</a>
Phase One Information Papers	<a href="https://www.gov.uk/government/collections/high-speed-rail-london-west-midlands-bill#information-papers">https://www.gov.uk/government/collections/high-speed-rail-london-west-midlands-bill#information-papers</a>
Phase One – Planning Forum Notes	<a href="https://www.gov.uk/government/publications/planning-forum-notes">https://www.gov.uk/government/publications/planning-forum-notes</a>
Phase One Environmental Statement	<a href="https://www.gov.uk/government/collections/hs2-phase-one-environmental-statement-documents">https://www.gov.uk/government/collections/hs2-phase-one-environmental-statement-documents</a>
	<a href="https://www.gov.uk/government/collections/additional-provision-september-2014">https://www.gov.uk/government/collections/additional-provision-september-2014</a>
	<a href="https://www.gov.uk/government/collections/supplementary-environmental-statement-and-additional-provision-2-july-2015">https://www.gov.uk/government/collections/supplementary-environmental-statement-and-additional-provision-2-july-2015</a>
	<a href="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-2-and-additional-provision-3-september-2015</a>

Document	Link
	<a href="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-3-and-additional-provision-4-october-2015</a>
	<a href="https://www.gov.uk/government/collections/supplementary-environmental-statement-4-and-additional-provision-5-december-2015">https://www.gov.uk/government/collections/supplementary-environmental-statement-4-and-additional-provision-5-december-2015</a>