

A47 North Tuddenham to Easton Dualling

Scheme Number: TR010038

Volume 1
1.3 Introduction to the Application

APFP Regulation 5(2)(q)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

March 2021



Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

The A47 North Tuddenham to Easton Development Consent Order 202[x]

INTRODUCTION TO THE APPLICATION

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CONTENTS

1	INTRODUCTION	1
1.1	Purpose of this Document	1
1.2	Structure of this Document	1
2	THE SCHEME	2
2.1	Description	2
2.2	Scheme Objectives	3
2.3	Scheme History, Timeline and Future Milestones	4
2.4	Qualification as a Nationally Significant Infrastructure Project	5
3	THE APPLICANT	6
3.1	Highways England	6
3.2	The A47 North Tuddenham to Easton Dualling Project Team	6
4	APPLICATION DOCUMENTS	7
5	VOLUME 1 APPLICATION FORM / INFORMATION / BACKGROUND	8
6	VOLUME 2 PLANS, DRAWINGS AND SECTIONS	9
7	VOLUME 3 DRAFT DEVELOPMENT CONSENT	11
8	VOLUME 4 COMPULSORY ACQUISITION INFORMATION	13
9	VOLUME 5 REPORTS / STATEMENTS	14
10	VOLUME 6 ENVIRONMENTAL IMPACT ASSESSMENT (EIA) INFORMATION	ON15
11	VOLUME 7 OTHER DOCUMENTS	20
12	GLOSSARY	21



1 INTRODUCTION

1.1 Purpose of this Document

- 1.1.1 Highways England (the Applicant) has submitted an application under Section 37 of the Planning Act 2008 (the PA 2008) to the Secretary of State via the Planning Inspectorate (the Inspectorate) for an order to grant development consent (DCO) for the A47 North Tuddenham to Easton Dualling Scheme (the Scheme).
- 1.1.2 This document provides an accessible guide to the Scheme, Applicant and application, and it will assist those in reviewing the application documentation.

1.2 Structure of this Document

- 1.2.1 This document comprises 12 Chapters as described below:
 - Chapter 1 Introduces this document
 - Chapter 2 Provides a high-level description of the Scheme
 - Chapter 3 Introduces the Applicant
 - Chapter 4 Gives an overview of the application documentation
 - Chapter 5 to 11 These sections explain the purpose of each of the documents submitted
 - Chapter 12 A Glossary of the abbreviations and definitions used within the Application.
- 1.2.2 Appendix A of this document provides a list of the application documents.



2 THE SCHEME

2.1 Description

- 2.1.1 The Scheme is located between the villages of North Tuddenham and Easton, in Norfolk. It is currently a section of single carriageway forming part of the main arterial highway route connecting Norwich and Great Yarmouth to King's Lynn and then on to Peterborough, Leicester and the Midlands.
- 2.1.2 Studies have identified that this single carriageway section of the A47 no longer meets the needs of its users. It acts as a bottleneck, resulting in congestion that leads to longer journey times, and has a poor safety record.
- 2.1.3 The Scheme will upgrade the section of the A47 between North Tuddenham and Easton, west of Norwich, to a new dual carriageway running south of the existing A47 at Hockering and to the north of the existing A47 at Honingham. This will relieve congestion, reduce journey times, encourage economic growth, improve road safety and improve our customers' experience. Further details on how the Scheme meets these objectives can be found in the Case for the Scheme (**TR010038/APP/7.1**).
- 2.1.4 The layout extents are shown on the Location Plan (TR010038/APP/2.1) with further detail provided on the General Arrangement Plans (TR010038/APP/2.2). A detailed description of the Scheme is provided in Chapter 2 The Proposed Scheme of the Environmental Statement (TR010038/APP/6.1). In summary, the Scheme comprises:
 - 9km of new dual carriageway, running to the south of the existing A47 at Hockering and north of the existing A47 at Honingham
 - two new junctions where the A47 passes over the local roads: one where of Berrys Lane meets Wood Lane (Wood Lane junction) and one where Blind Lane meets Taverham Road (Norwich Road junction)
 - removal of the existing roundabout at Easton to create a free-flowing road
 - building four bridges for the A47 to pass over or under: the new Mattishall Lane Link Road, the proposed Wood Lane junction, the River Tud and the proposed Norwich Road junction
 - Sandy Lane connecting to the A47 via a new side road providing access to Wood Lane junction
 - two new lay-bys on the A47, between Fox Lane and the proposed Wood Lane junction
 - closure to through traffic of: Church Lane (East Tuddenham), Berrys Lane, Blind Lane and Church Lane (Easton), north of the A47
 - widening of the junction of Rotten Row and Church Lane (East Tuddenham)
 - converting sections of the existing A47 for local needs, such as
 - converting to a Class B road north of Honingham, with a new cycle track between and the new Dereham Road link road and Honingham roundabout



- o reducing to a single lane in front of St Andrews church, Honingham, with inclusion of passing places, parking places, turning area and security gate
 - alterations to existing public rights of way and provision of new segregated routes for walkers and cyclists, including:
- a new route for walkers and cyclists linking Honingham with St Andrew's Church across the A47 via the proposed Honingham Church underpass
- a new route for walkers and cyclists linking Easton with Lower Easton across the A47
 via the proposed Easton footbridge
 - new drainage systems, including:
- new outfalls to the River Tud
- o dry culverts to maintain overland flow paths
- new attenuation basins, with pollution control devices, to control discharges to local watercourses
 - compounds, material storage areas and temporary vehicle parking located within the scheme boundary when construction is taking place
 - diverting or installing new utilities infrastructure, such as gas pipelines, electricity cables, water pipelines and electronic communications cables
 - environmental measures embedded into the Scheme design to reduce the environmental effects and deliver wider benefits, such as noise barriers, low noise road surfaces, permanent mammal crossings and new wetland habitats
 - temporary closure of access (exit and entry) to Honingham Lane at the junction with Taverham Road, Weston Road and Telegraph Hill until NWL opens.
- 2.1.5 A more detailed description of the Scheme can be found in Chapter 2, The Proposed Scheme of the Environmental Statement (**TR010038/APP/6.1**).

2.2 Scheme Objectives

- 2.2.1 The key objectives of the Scheme are:
 - Supporting economic growth: reduce congestion related delay, improve journey time reliability and increase the overall capacity for future traffic growth to help enable regional development and growth in Norwich and its surrounding area
 - A safer and reliable network: improve safety for all road users and those living in the local area by improving safety issues at junctions along the A47. Improve user satisfaction by quicker and more reliable journeys
 - A more free-flowing network: increase resilience in coping with incidents such as collisions, breakdowns, maintenance and extreme weather. Support the smooth flow of traffic and improve journey times reliability by maximising the operational capability at the junctions and along the 9km carriageway



- **Improved environment:** protect the environment by minimising adverse impacts and, where possible, deliver benefits
- An accessible and integrated network: ensure the new road layout considers local communities and safe access to the A47. Provide a safer route between communities for cyclists, walkers, horse-riders and other vulnerable users of the network, taking into consideration how their requirements can be addressed with improved connectivity
- Value for money: ensure the Scheme is affordable and delivers good value for money.
- 2.2.2 The need for the Scheme is set out in the Case for the Scheme (TR010038/APP/7.1) and the Statement of Reasons (TR010038/APP/4.1).
- 2.3 Scheme History, Timeline and Future Milestones
- 2.3.1 The history of the Scheme and future milestones are summarised in Table 2.1:

Table 2.1: History of the Scheme and future milestones

Year	Activity
2014	Feasibility studies were undertaken for the then Highways Agency and the Department for Transport (DfT) to identify issues on the Strategic Road Network on the A47/A12 Corridor between the A1 west of Peterborough and Lowestoft (south of the A47's junction with the A12).
December 2014	The Department for Transport (DfT) published the Road Investment Scheme (RIS) for 2015-2020. The RIS sets out the list of schemes that are to be developed by Highways England over the period of April 2015 to March 2020. The RIS confirmed the commitment to the Scheme.
March 2015	High level appraisal summarised of the benefits of the A47 schemes including the Scheme in the A47 & A12 Corridor Feasibility Study (March 2015).
August 2017	The Preferred Route was announced. The preferred option (Option 2) was a new dual carriageway to the south of the existing A47.
February to April 2020	Statutory consultation was undertaken.
December 2020 to January 2021	Further targeted consultation was undertaken on the changes made as a result of statutory consultation.
March 2021	DCO submission to the Inspectorate
2023	Start of Works
2024	Open to traffic



2.4 Qualification as a Nationally Significant Infrastructure Project

- 2.4.1 The Scheme qualifies for the following reasons:
 - a) The Scheme is a nationally significant infrastructure project ("NSIP") within sections 14(1)(h) and 22(1)(b) of the Planning Act 2008 (the "2008 Act"). Under section 22 an NSIP must fall within one of the three categories specified, which are expressly stated to be alternatives. This Scheme is the "alteration" of a highway within the meaning of section 22(1)(b).
 - b) The Scheme satisfies section 22(3) in that
 - the highway is wholly in England;
 - the Applicant as strategic highways company will be the highway authority for the highway; and
 - the area of the land on which the part of the highway to be altered is situated and any adjoining land expected to be used in connection with its alteration is greater than the relevant limit set out in subsection (4), which in this case is 12.5 hectares, as speed limits on the Proposed Scheme will be in excess of 50mph.



3 THE APPLICANT

3.1 Highways England

3.1.1 The Applicant is appointed and licensed by the Secretary of State for Transport as the strategic highways company for England. It is responsible for operating, maintaining and improving the strategic road network in England on behalf of the Secretary of State for Transport. The network is made up of England's motorways and all-purpose trunk roads (the major "A" roads) and the existing A47 is part of the trunk road network for which the Applicant is responsible. Following construction of the Scheme, the Applicant will be responsible for operating, maintaining and improving (under its general statutory powers in respect of the latter) the new route of the A47 North Tuddenham to Easton.

3.1.2 The Scheme contact details are:

A47 North Tuddenham to Easton Dualling Project Team Regional Investment Programme East

Highways England Woodlands Manton Lane Bedford MK41 7LW

Email: A47NorthTuddenhamtoEastonRIS@highwaysengland.co.uk

Telephone: 0300 123 5000

3.2 The A47 North Tuddenham to Easton Dualling Project Team

3.2.1 The Scheme is managed by the Applicant from its Bedford office by the A47 North Tuddenham to Easton Dualling Project Team, which is responsible for delivering the Scheme in accordance with the Scheme's requirements.



4 APPLICATION DOCUMENTS

- 4.1.1 A list of documents within the application is set out in the Covering Letter and completed Section 55 checklist (**TR010038/APP/1.2**); further detail on the documents within the application is provided in the following chapters.
- 4.1.2 If you require a copy of any of the application documents, or parts of them, please contact the A47 North Tuddenham to Easton Dualling Project Team (contact details in Section 3.1.2). A USB containing these documents will be provided free of charge; a reasonable charge for printing and distribution of, hard copies may be made.



5 VOLUME 1 APPLICATION FORM / INFORMATION / BACKGROUND

- 5.1.1 The Application Form (**TR010038/APP/1.1**) is a standard form and provides a high-level summary of the Scheme and the documents that have been submitted. It is a form that originates from Schedule 2 of the Infrastructure Planning (Applications: Prescribed Forms and Procedures) Regulations 2009 (the APFP Regulations).
- 5.1.2 The Covering Letter and completed Section 55 checklist (**TR010038/APP/1.2**) is completed to evidence how the application fulfils the conditions for acceptance by the Inspectorate under section 55 of the PA 2008. The Schedule of Compliance with section 55 will also be completed by the Inspectorate on receipt of the DCO application.
- 5.1.3 The Introduction to the Application (**TR010038/APP/1.3**) is this document. Appendix A of this document provides a full list of the application documents.



VOLUME 2 PLANS, DRAWINGS AND SECTIONS

- 6.1.1 There are 13 sets of plans as described below. Where a plan comprises three or more separate sheets, a key plan is provided, showing the relationship between the different sheets. The exception to this is the Location Plan (TR010038/APP/2.1).
- 6.1.2 Each plan (and each sheet within a set of plans) includes a key, which explains the use of symbols/lines/shading to denote features and information in the plans.
- 6.1.3 The Location Plan (**TR010038/APP/2.1**) identifies the location of the proposed development in its wider context.
- 6.1.4 The General Arrangement Plans (**TR010038/APP/2.2**) provide a technical illustration of the Scheme shown against an Ordnance Survey base map.
- 6.1.5 The Land Plans (**TR010038/APP/2.3**) correspond to the Book of Reference (**TR010038/APP/4.3**) and, in summary, set out:
 - the limits of land to be acquired or used permanently or temporarily;
 - the land to be acquired or used permanently for construction, operation and maintenance works for the Scheme;
 - any land over which temporary possession may be taken; and
 - any land to be used temporarily and for rights in the land to be acquired permanently.
- 6.1.6 The Works Plans (**TR010038/APP/2.4**) show the centre line of the proposed works and the limits of deviation within which the development and works may be carried out. Most importantly, the plans will show the extent of the individual works
- 6.1.7 The Rights of Way and Access Plans (**TR010038/APP/2.5**) show any new or altered means of access, stopping up of streets, roads and any diversions, extinguishment or creation of rights of way.
- 6.1.8 The Traffic Regulation Plans (**TR010038/APP/2.6**) are provided to show the clearways, restrictions on vehicle weights and classes of user which are proposed to be applied to the Scheme.
- 6.1.9 The Engineering Drawings and Sections (**TR010038/APP/2.7**) show the levels of the proposed works including the ground levels, the height of certain structures and the depths of any cuttings required for the project and any drainage outfall details.
- 6.1.10 The Drainage and Surface Water Plans (**TR010038/APP/2.8**) are provided to show the extents of the proposed drainage that is required as part of the Scheme. These plans also detail the locations and levels of the proposed infiltration ponds.



- 6.1.11 The Crown Land Plans (**TR010038/APP/2.9**) show any land belonging to the Crown that is affected by the Scheme.
- 6.1.12 The Special Category Land Plans (**TR010038/APP/2.10**) show any special category land that is affected by the Scheme.
- 6.1.13 The Classification of Roads Plan (**TR010038/APP/2.11**) highways classifications which are proposed to apply to the Scheme where new classifications are required and existing classifications are changed.
- 6.1.14 The Hedgerow Plans (**TR010038/APP/2.12**) are provided to show the extents of the changes to the hedgerows required as part of the Scheme.
- 6.1.15 The De-trunking Plans (**TR010038/APP/2.13**) show sections of road that will be operated and maintained by the local highways authority, Norfolk County Council, and no longer by Highways England.



7 VOLUME 3 DRAFT DEVELOPMENT CONSENT

7.1.1 The Draft Development Consent Order (**TR010038/APP/3.1**) sets out the powers that the Applicant is seeking to enable it to construct and maintain the Scheme. It sets out the parameters for what development would be permitted. It consists of 7 Parts and is accompanied by 10 Schedules as outlined below:

Parts 1 - 7

- Part 1 Preliminary
- Part 2 Principal Powers
- Part 3 Streets
- Part 4 Supplemental Powers
- Part 5 Powers of Acquisition
- Part 6 Operations
- Part 7 Miscellaneous and General

Schedules

- Schedule 1 Authorised Development lists the works that would be authorised by the grant of development consent, which are shown on the works plans and to which the schedule refers.
- Schedule 2 Requirements sets out the conditions that the Applicant would be required to accord with when implementing the development authorised by the DCO.
- Schedule 3 Classification of Roads lists the road classifications and the relevant traffic regulations that the new and altered highway would be subject to (i.e. speed limits)
- Schedule 4 Permanent Stopping up of Highways and Private Means of Access & Provision of New Highways and Private Means of Access - sets out the highways, public rights of way and private means of access that would be permanently stopped up or created as a result of the Scheme (and any relevant replacements).
- Schedule 5 Land in which only New Rights etc. may be Acquired sets out the land in which the Applicant is only seeking to acquire new rights or impose restrictive covenants (such as a right to maintain new infrastructure) rather than acquire the entire freehold interest in the land.
- Schedule 6 Modification of Compensation and Compulsory Purchase Enactments for Creation of New Rights - amends relevant compulsory acquisition legislation to ensure that it can apply to the DCO (particularly in relation to compensation provisions in connection with land and rights compulsorily acquired under the DCO).



- Schedule 7 Land of which Temporary Possession may be taken sets out the land which the Applicant is seeking to possess temporarily for the purpose of constructing the Scheme.
- Schedule 8 Removal of Hedgerows sets out work required for full or partial removal of the hedgerows.
- Schedule 9 Protective Provisions sets out the measures for the protection of electricity, gas, water and sewage undertakers and for the operators of electronic communications code networks, and other statutory undertakers.
- Schedule 10 Documents to be certified sets out those documents to be certified by the Secretary of State for the purposes of the DCO.
- 7.1.2 The Explanatory Memorandum to the Draft Development Consent Order (TR010038/APP/3.2) explains the purpose and effect of each provision in the draft order including why it is considered necessary.
- 7.1.3 The Consents and Agreements Position Statement (**TR010038/APP/3.3**) sets out the intended strategy for obtaining the consents and associated agreements needed to implement the Scheme.



8 VOLUME 4 COMPULSORY ACQUISITION INFORMATION

- 8.1.1 To implement the Scheme, the Applicant will need to use statutory powers to acquire land and rights in land, and to possess and use land temporarily.
- 8.1.2 The Applicant is required to provide evidence that the use of these powers would be justified, proportionate and in the public interest and this evidence is set out in a Statement of Reasons (TR010038/APP/4.1), Funding Statement (TR010038/APP/4.2) and Book of Reference (TR010038/APP/4.3) explained below.
- 8.1.3 The Statement of Reasons (**TR010038/APP/4.1**) explains that there is a compelling case in the public interest which would justify the Applicant's exercise of powers of compulsory acquisition in order to acquire land and rights permanently and to use land temporarily to enable it to construct, operate and maintain the Scheme.
- 8.1.4 The Funding Statement (**TR010038/APP/4.2**) explains how the Scheme, including any compulsory purchase acquisition, would be funded.
- 8.1.5 The Book of Reference (**TR010038/APP/4.3**) identifies all Parties who own or occupy land and/or have an interest in or right over the land affected by the Scheme, and/or who may be entitled to make a 'relevant claim' as defined in section 57 of the PA 2008. It is structured in five parts in accordance with relevant regulatory requirements. The five parts are:
 - Part 1: Names and addresses for service of each person / organisation within Categories 1 and 2 as defined in section 57 of the PA 2008 in respect of any land which it is proposed shall be subject to:
 - powers of compulsory acquisition;
 - rights to use land, including the right to attach brackets or other equipment to buildings; or
 - rights to carry out protective works to buildings;
 - Category 1 interests are owners, lessees, tenants, or occupiers of land.
 Category 2 interests are those who have an interest in the land or who have the power to sell and convey the land or release the land.
 - Part 2: Names and addresses for service of each person / organisation within Category 3. These are interests who might be entitled to make a relevant claim if the DCO were consented and implemented, e.g. potential claimants under Part 1 of the Land Compensation Act 1973 (c. 26), Section 10 of the Compulsory Purchase Act 1965, section 152(3) of the PA 2008.
 - Part 3: Names of all those entitled to enjoy easements or other private rights over land (including private rights of navigation over water) which it is proposed shall be extinguished, suspended or interfered in the proposed DCO.
 - Part 4: Owner of any Crown interest in the land which it is proposed to be used for the purposes of the order for which application is being made.
 - Part 5: Land the acquisition of which could be subject to special parliamentary procedure, is special category land, or is replacement land.



9 VOLUME 5 REPORTS / STATEMENTS

- 9.1.1 The Consultation Report (**TR010038/APP/5.1**) provides an account of the preapplication consultation undertaken on the Scheme. The report includes details of the statutory consultation which the Applicant is required to undertake in accordance with the PA 2008, the informal engagement that has taken place, and how the comments received have been taken into account when developing the Scheme.
- 9.1.2 A range of annexes that support the report are submitted as Consultation Report Annexes (**TR010038/APP/5.2**) as described in Table 2 below:

Table 2: Consultation Report Annexes

Annex	Annex Name
Annex A	Options consultation materials
Annex B	The Infrastructure Planning (EIA) Regulations 2017: Regulation 8(1) and 10(1) letter to PINS
Annex C	Copies of the draft SoCC provided to local authorities
Annex D	Correspondence to local authorities for SoCC consultation
Annex E	Response from local authorities on the draft SoCC
Annex F	Published SoCC
Annex G	Section 47 and 48 newspaper notices
Annex H	Section 46 notification letter sent to PINS
Annex I	Section 42 letters and enclosures
Annex J	Section 47 consultation materials
Annex K	List of prescribed consultees identified and consulted
Annex L	December 2020 project update and targeted consultation
Annex M	Engagement with Statutory Undertakers
Annex N	Table evidencing regard had to consultation responses (in accordance with section 49 of the Planning Act 2008)
Annex O	Table evidencing regard had to targeted consultation and project update responses (in accordance with S49 of the Planning Act 2008)



10 VOLUME 6 ENVIRONMENTAL IMPACT ASSESSMENT (EIA) INFORMATION

- 10.1.1 The Applicant has undertaken an environmental impact assessment (EIA) of the Scheme to consider what significant effects the scheme is likely to have on the environment. The Environmental Statement (ES) (TR010038/APP/6.1) reports the findings of the EIA.
- 10.1.2 The ES also provides general information on the Scheme including context, description of the Scheme and its construction, main alternatives considered, the consultation process that was part of the EIA and technical information on a range of topics. This chapter provides an overview of the structure of the document to assist with navigation.
- 10.1.3 The ES includes the following chapters:
 - Chapter 1 Introduction
 - Chapter 2 The Scheme
 - Chapter 3 Consideration of Alternatives
 - Chapter 4 Environmental Assessment Methodology
 - Chapter 5 Air Quality
 - Chapter 6 Cultural Heritage
 - Chapter 7 Landscape and Visual
 - Chapter 8 Biodiversity
 - Chapter 9 Geology and Soils
 - Chapter 10 Materials Assets and Waste
 - Chapter 11 Noise and Vibration
 - Chapter 12 Population and Human Health
 - Chapter 13 Road Drainage and the Water Environment
 - Chapter 14 Climate
 - Chapter 15 Cumulative Effect Assessment
- 10.1.4 The ES is accompanied by a series of ES Figures (**TR010038/APP/6.2**) which provide further information and detail to support the EIA.
- 10.1.5 The ES is also accompanied by a series of ES Appendices (**TR010038/APP/6.3**) which provide further information and detail to support the EIA. These are set out in Table 3 below.



Table 3: List of ES Appendices

Appendix Number	Appendix Name
4.1	Scoping Opinion Response Table
5.1	Air Quality Dispersion Modelling Process
5.2	Air Quality Verification and Model Adjustment
5.3	Air Quality Receptor Results
6.1	Cultural Heritage Information
6.2	Geophysical Survey, Part 1
6.2	Geophysical Survey, Part 2
6.3	Archaeological Evaluation
7.1	Planning Policy Context
7.2	ZTV and Verified Photomontage Methodology
7.3	Landscape Character Areas
7.4	Visual Receptors
7.5	Representative Viewpoints
7.6	Arboricultural Impact Assessment
7.7	Lighting Assessment
8.1	Botanical Survey Report
8.2	Fungi Survey Report
8.3	Terrestrial Invertebrate Survey Report
8.4	River Tud Corridor Aquatic Invertebrate Survey
8.5	White Clawed Crayfish Survey Report
8.6	Great Crested Newt Survey Report
8.7	Reptile Survey Report



Appendix	Appendix Name
Number	
8.8	Breeding Bird Survey Report
8.9	Barn Owl Survey Report
8.10	Wintering Bird Survey Report
8.11	Bat Hibernation Report
8.12	Bat Roost Survey Report
8.13	Bat Crossing Point Report
8.14	Otter and Water Vole Survey Report
8.15	CONFIDENTIAL Badger Survey Report
8.16	DMRB Biodiversity Evaluation Assessment Methodology
8.17	Legislation and Policy Framework
9.1	Hierarchy of Screening Criteria for Generic Quantitative Risk Assessment
9.2	Agricultural Land Classification
10.1	Legislation and Policy Framework
10.2	Outline Site Waste Management Plan
10.3	Mineral Impact Assessment
11.1	Glossary of Terms
11.2	Legislation and Policy Framework
11.3	Baseline Noise Survey
11.4	Traffic Data Comparison and Model Validation
11.5	Construction Noise Assessment
12.1	Population and Human Health Questionnaire Responses
13.1	Flood Risk Assessment, Part 1



Appendix Number	Appendix Name
13.1	Flood Risk Assessment, Part 2
13.2	Drainage Strategy Report, Part 1
13.2	Drainage Strategy Report, Part 2
13.3	Water Quality Assessment
13.4	Groundwater Assessment
13.5	Geomorphological Assessment
14.1	Embodied Carbon Assessment
15.1	Cumulative Effects Assessment Long List
15.2	Cumulative Effects Assessment Shortlist

- 10.1.6 For the Non-Technical Summary (**TR010038/APP/6.4**) to the ES, the following sections are provided:
 - Introduction
 - The Applicant
 - The Proposed Scheme
 - Alternatives considered
 - Environment Impact Assessment (EIA)
 - Overview Plan
 - Environmental Statement
 - Air Quality
 - Cultural Heritage
 - Landscape
 - Biodiversity
 - Environmental Constraints Plan
 - Geology and Soils
 - Material Assets & Waste
 - Noise and Vibration
 - Population and Human Health



- Road Drainage and the Water Environment
- Climate
- Cumulative Effects Assessment
- Consultation
- How to find out more
- 10.1.7 The Scoping Report (TR010038/APP/6.5) and Scoping Opinion (TR010038/APP/6.6) are reports which are produced to identify the scope and content of the EIA.
- 10.1.8 A Statement Relating to Statutory Nuisance (**TR010038/APP/6.7**) identifies the matters set out in Section 79 of the Environmental Protection Act 1990 in respect of statutory nuisances and considers, whether the proposed development would engage one or more of those matters. Where any matters may be potentially engaged, this statement sets out its proposals for mitigating or limiting them.
- 10.1.9 There are also a number of other supporting documents which of relevance to the DCO and not dealt elsewhere in the application these are
 - Environmental Masterplan (TR010040/APP/6.8)
 - Report to Inform Habitats Regulations Assessment (TR010040/APP/6.9). This
 Report is prepared to inform the Secretary of State's role as a competent
 authority for the purposes of the Conservation of Habitats and Species
 Regulations 2017.



11 VOLUME 7 OTHER DOCUMENTS

- 11.1.1 A range of additional documents have been submitted with the DCO application. These documents are not legally required, but are intended to provide useful information on the scheme and aid detailed understanding of the application and its justification.
- 11.1.2 The Case for the Scheme (**TR010038/APP/7.1**) sets out the need for the Scheme, the objectives that it seeks to address, options and alternatives considered and an explanation of the Scheme over time. This document also includes the Transport Assessment undertaken as part of the development of the Scheme.
- 11.1.3 The National Policy Statement for National Network Accordance Table (TR010038/APP/7.2) and sets out how the Scheme meets its objectives and how it aligns with government policy in the NPS NN.
- 11.1.4 The Scheme Design Report (**TR010038/APP/7.3**) explains how the design process evolved, the justification of the level of design in the DCO application and how functionality and the environment have been considered.
- 11.1.5 The Environmental Management Plan (EMP) (**TR010038/APP/7.4**) provides an essential Scheme specific tool to manage on-site construction activities that may affect the environment. The key aims of the EMP are to ensure all environmental mitigation, DCO requirements, consents and licences are met and to minimise and manage the risk of adverse environmental impacts.
- 11.1.6 The Outline Traffic Management Plan (**TR010038/APP/7.5**) sets out how traffic will be managed during construction of the Scheme to maintain road safety while minimising disruption to road users.
- 11.1.7 The Equality Impact Assessment (**TR010038/APP/7.6**) assesses the impact of the Scheme on the Equality of those effected by the Scheme.



12 GLOSSARY

12.1.1 Abbreviations and Definitions used through the application for the Scheme.

Abbreviations	
Term	Meaning/Definition
AADT	Annual Average Daily Traffic
AD	Anno Domini
ALC	Agricultural Land Classification
AOD	Above Ordnance Datum
AONB	Area of Outstanding Natural Beauty
APFP 2009	The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009
AQIA	Air Quality Impact Assessment
AQMA	Air Quality Management Area
AQO	Air Quality Objectives
AQS	Air Quality Strategy
ARN	Affected Road Network
BAP	Biodiversity Action Plan
BGS	British Geological Survey
BMV Land	Best and Most Versatile Land
BoCC	Birds of Conservation Concern
BoR	Book of Reference
BS	British Standard
C.	circa
CCI	Community Conservation Index
CEMP	Construction Environmental Management Plan
CIRIA	Construction Industry Research and Information Association
CL:AIRE	Contaminated Land: Applications in Real Environments
CO2	Carbon Dioxide



Abbreviations	
Term	Meaning/Definition
CRTN	Calculation of Road Traffic Noise
CWS	County Wildlife Site
DAFOR	Scale: Dominant, Abundant, Frequent, Occasional, Rare
DCLG	(former) Department for Communities and Local Government
DCO	Development Consent Order
DEFRA	Department for the Environment, Food and Rural Affairs
dB	Decibel
DfT	Department for Transport
DMRB	Design Manual for Roads and Bridges
DMV	Deserted Medieval Village
EA	Environment Agency
EIA	Environmental Impact Assessment
EcIA	Ecological Impact Assessment
ECoW	Environmental Clerk of Works
EcCoW	Ecological Clerk of Works
eDNA	Environmental DNA
EIA	Environmental Impact Assessment
EMP	Environmental Management Plan
EPS	European Protected Species
ES	Environmental Statement
EU	European Union
ExA	Examining Authority
FRA	Flood Risk Assessment
GCN	Great Crested Newt
GHG	Greenhouse Gas



Abbreviations	
Term	Meaning/Definition
GI	Ground Investigation
GIS	Geographic Information System
GP	General Practitioner
GPA	Good Practice Advice
GPP	Guidance for Pollution Prevention
GVA	Gross Value Added
На	Hectares
HADDMS	Highways Agency's Drainage Data Management System
HAGDMS	Highways Agency Geotechnical Data Management System
HDV	Heavy Duty Vehicle
HEWRAT	Highways England Water Risk Assessment Tool
HEMP	Handover Environmental Management Plan
HER	Historic Environment Records
HGV	Heavy Goods Vehicle
HLCT	Historic Landscape Character Type
HRA	Habitats Regulations Assessment
HSI	Habitat Suitability Index
IAN	Interim Advice Note
IAQM	Institute of Air Quality Management
IDB	Internal Drainage Board
IEEM	Institute of Ecology and Environmental Management
IEMA	Institute of Environmental Management and Assessment
IP	Interested Party
IROPI	Imperative Reasons of Over-riding Public Interest.
ISH	Issue Specific Hearing



Abbreviations	
Term	Meaning/Definition
Km	Kilometre
Kph	Kilometres per hour
LAF	Local Access Forum
LBAP	Local Biodiversity Action Plan
LED	Light Emitting Diode
LCA	Landscape Character Areas
LCU	Landscape Character Unit
LoD	Limit of Deviation
LHA	Local Highway Authority
LIA	Local Impact Area
LiDAR	Light Detection and Ranging
LIR	Local Impact Report
LLFA	Lead Local Flood Authority
LNR	Local Nature Reserve
LOAEL	Lowest Observable Adverse Effect Level
LPA	Local Planning Authority
LSOA	Lower Super Output Area
LVIA	Landscape and Visual Impact Assessment
LWS	Local Wildlife Site
m	metre
MHCLG	Ministry of Housing, Communities and Local Government
MMP	Materials Management Plan
Mph	Miles per hour
MPI	Major Projects Instruction
MtCO ₂ e	Metric tons of carbon dioxide equivalent



Abbreviations	
Term	Meaning/Definition
NBIS	Norfolk Biodiversity Information Service
NCA	National Character Area
NE	Natural England
NERC Act 2006	Natural Environment and Rural Communities Act 2006
NHLE	National Heritage List for England
NIA	Noise Important Area
NMU	Non-Motorised User
NMP	National Mapping Programme
NNR	National Nature Reserves
NPS NN	National Policy Statement for National Networks
NO ₂	Nitrogen Dioxide
NO _X	Nitrogen Oxides
NOEL	No Observed Effect Level
NPS	National Policy Statement
NSIP	Nationally Significant Infrastructure Project
NVZ	Nitrate Vulnerable Zone
ONS	Office for National Statistic
os	Ordnance Survey
PA 2008	The Planning Act 2008 (as amended)
PAS	Publicly Available Specification
PCM	Pollution Climate Mapping
PCZ	Primary Consultation Zone
PEI	Preliminary Environmental Information
PEIR	Preliminary Environmental Information Report
PIE	Public Information Event



Abbreviations	
Term	Meaning/Definition
PINS	The Planning Inspectorate
PM	Preliminary Meeting
PPE	Personal Protective Equipment
PRF	Preliminary Roost Feature
PRoW	Public Right of Way
RBMP	River Basin Management Plan
REAC	Register of Environmental Actions and Commitments
RIES	Report on the Implications for a European Site
RIS	Road Investment Strategy
RNR	Roadside Nature Reserve
RR	Relevant Representation
RSPB	Royal Society for the Protection of Birds
SAC	Special Area of Conservation
SEB	Statutory Environmental Bodies
SM	Scheduled Monument
SOAEL	Significant Observed Adverse Effect Level
SoCC	Statement of Community Consultation
SoCG	Statement of Common Ground
SoS	Secretary of State
SPA	Special Protected Area
SPZ	Source Protection Zone
SRP	Soil Resource Plan
SSSI	Site of Special Scientific Interest
SU	Statutory Undertaker
SuDS	Sustainable Urban Drainage Systems



Abbreviations	
Term	Meaning/Definition
SWMP	Site Waste Management Plan
TAG	Transport Analysis Guidance
TEAM	Transparent Economic Assessment Model
TMP	Traffic Management Plan
TPO	Tree Preservation Order
µg/m₃	Microgram per metre cubed (a millionth of a gram)
UK	United Kingdom
UKCP	United Kingdom Climate Projections
VP	Vantage Point
WCHR	Walking, Cycling and Horse-riding
WFD	Water Framework Directive
WHO	World Health Organization
WIA	Wider Impact Area
ZOI	Zone of Influence
ZTV	Zone of Theoretical Visibility



Definitions	
Annual Average Daily Traffic (AADT)	One of several ways of measuring the flow of traffic; represents the daily average number of vehicles using a particular link in the network, averaged across the whole year.
Accidental Spillages	Means fuels, oils or other contaminants spilled onto the road as a result of accidents during operation of the road, for instance due to road traffic collisions.
Affected Person	An Affected Person is a person known to have an interest in land which is to be acquired compulsorily (or over which rights are to be acquired compulsorily) under a DCO.
Air quality limit value	A level fixed on the basis of scientific knowledge, with the aim of avoiding, preventing or reducing harmful effects on human health and/or the environment as a whole, to be attained within a given period.
Air Quality Management Area (AQMA)	An area identified by a local authority where the local air quality objectives not being achieved, or are not likely to be achieved within the relevant period. As required by Part IV of the Environment Act 1995. The authority declaring an AQMA is obliged to prepare a management plan to prevent or remove any such exceedances.
Air quality objectives	Ambient concentration not to be exceeded, either without exception or with a permitted number of exceedances, within a specified timescale. Intended to represent the concentration of any pollutant below which no effects on human health would be expected to occur, even in the most vulnerable individuals.
Air Quality Strategy (AQS)	The Government's air quality policy document for England, Scotland, Wales and Northern Ireland; establishes the national AQOs for a number of specific air pollutants.
Agricultural Land Classification (ALC)	A system of classifying the quality of agricultural land from Grade 1 (best) to Grade 5 (worst). Grade 3 is subdivided into 3a and 3b.
Ambient concentration	Concentration of a pollutant in the surrounding area of environment.
Amenity	Amenity can be defined as 'the pleasantness or attractiveness of a place' (Oxford Dictionary of English), and visual amenity is therefore the contribution of views towards the pleasantness or attractiveness of a place. The degree of visual amenity varies between locations according to the quality of views available.
Applicant	Highways England Company Limited.
Artefact	An item of archaeological interest.



	Definitions	
At-grade	A term meaning 'on the same' level – i.e. when a roundabout or junction and all the roads joining it are at the same ground level so all the traffic needs to go around the roundabout or through the junction.	
Attenuate	'Attenuate' in this context means any method used to slow down the rate of discharge of water drained off the road into local watercourses, to avoid the risk of causing floods. In this case, the water will be captured in ponds and then slowly released at a rate agreed with the Environment Agency.	
Attenuation	During rainfall, water can run off rapidly from the impermeable surface of the road, increasing water level in the streams to which it discharges. An 'attenuation pond' (or balancing pond') holds back the water before discharge, allowing it to be released slowly and reducing flood risk. While the water is held in the pond, sediment and pollutants can settle out, which improves the quality of the water before it is discharged.	
Authorised Development	The development which is consented under an approved DCO.	
Averaging period	A period of time over which a concentration is averaged when reporting air quality statistics. Commonly used averaging periods are 1-hour, 24-hour, 30-days and 365-days (annual). The averaging periods available for use is determined by the measurement technique employed for a given pollutant.	
A-weighting	A standard filter applied to acoustic pressure fluctuations to compensate for the relatively low sensitivity of human ears to low and high frequencies.	
Baseline	In EIA, 'baseline conditions' are the environmental conditions in existence just before the occurrence of an impact – i.e. they are the conditions that would be affected. Baseline conditions are not the same as existing conditions, which are those in existence at the time of carrying out the EIA, because, this may be some time in advance of the occurrence of an impact and environmental conditions may change in the intervening period.	
Biodiversity	The variety of life in all its forms as discussed in the UK Action Plan published in 1994 – HMSO Cm 2428.	
Best and Most Versatile Land (BMV)	Grades 1, 2 and 3a of the Agricultural Land Classification system, deemed by government policy to be a national strategic resource.	
Bronze Age	The period of human activity between 2,500 BC and 700 BC.	
Bund	A 'bund' is a linear bank or mound, usually built of earth.	



Definitions	
Construction Environmental Management Plan (CEMP)	A plan prepared by a contractor before the start of construction work, detailing 'environmental aspects' that may be affected by the construction work and management methods to prevent any such effects. The CEMP would include methods and site management practices to be applied to prevent generation of nuisance dust, accidental pollution events and a range of other potential sources of accidental damage to the environment, and response and reporting procedures to minimise the damage in the event of a pollution incident.
Compulsory Acquisition	The power of government to acquire private rights in land, or to buy that estate outright without the current owners' consent in return for compensation. This power is used to provide and / or facilitate public benefits such as social and economic development and the protection of the natural environment.
Compulsory Acquisition Hearing	These hearings must take place at the request of an Affected Person. Only Affected Persons, and the Applicant, have the right to request and be heard at a Compulsory Acquisition Hearing. At any hearings, the Examining Authority will manage the proceedings and may set a time limit for contributions to ensure fairness to all participants.
Construction activity	Vegetation removal, topsoil stripping, temporary storage of materials, ground excavation and remodelling, bare earth, movement of construction vehicles and tall features such as cranes and other construction plant.
Contaminated Land	Any land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land that – (a) significant harm is being caused or there is the significant possibility of such harm being caused.
Continuous monitoring	The measurement of a pollutant concentration using an electronic instrumentation continuously over time. The time interval for each measurement is very short which allows rapid changes to be recorded. These measurements can be aggregated into longer period averages of 1-hour, 8-hour etc.
Cutting	The removal of soil or rock material to reduce the profile or elevation of the topography of a site.
Data capture rate	The quantity of actual data collected over a specified period as a percentage of the theoretical maximum available.
dB/ Decibels	A logarithmic scale that is used for sound pressure levels; not on a linear scale – 2dB is 10 times as loud as 1dB and 3dB is 10 times as loud as 2 dB and so on. Typically, a quiet night-time level in a bedroom is 30dB and 90dB is the level at the kerbside of a busy road.
Development Consent Order (DCO)	The legal document under which the relevant Secretary of State can grant consent for construction of a Nationally Significant Infrastructure Project, on the advice of the Planning Inspectorate, in accordance with the PA 2008.



Definitions	
Desk study	A collation and review of relevant existing information available from published, archival or online sources, including for instance geological and hydrogeological mapping, historical maps, environmental records etc., allowing an assessment of risks to the human and environmental receptors to be undertaken.
Design Manual for Roads and Bridges (DMRB)	The 15 volumes of DMRB provide guidance for all aspects of the design of roads and bridges in the UK. Volume 10 covers environmental mitigation and Volume 11 governs environmental impact assessment. Other volumes cover other aspects of the design and preparation of highways projects.
Diffusion tube	Simple monitoring device for air pollutants that absorbs substances from the air by diffusion (e.g. nitrogen dioxide) into a liquid film coated onto the inside of a plastic tube.
Do-Minimum	A hypothetical scenario used to provide a realistic comparison of the effects of the Scheme. The do-minimum scenario includes and changes to the highways infrastructure that would occur even if the Scheme does not go ahead, and any other developments in the surrounding area that would influence the movement of traffic and would occur independently of the Scheme.
Do-Something	A hypothetical scenario used to provide a realistic comparison of the effects of the Scheme. The do-something scenario includes changes in traffic flows caused by the Scheme as well as any other developments in the surrounding area that would influence the movement of traffic.
Driver stress	A standard measure of driver stress can be calculated, based on the volume of traffic per lane and average speeds.
Earthworks	The moving of soil or rock to reconfigure the topography of a site.
Environmental Impact Assessment (EIA)	An assessment of certain types of major project of the significant effects that the project could have on the environment. The applicant is required to carry out the assessment by law, in this case under the Infrastructure Planning (Environmental Impact Assessment) Regulations, 2017.
Embodied Carbon	The amount of carbon released from material extraction, transport, manufacturing and related activities. This may be calculated from cradle to (factory) gate, cradle to (installation) site or from cradle to grave (final point of disposal).
Environment Agency (EA)	A non-departmental government body covering England and Wales, responsible for the protection of the environment, including the regulation of polluting activities and the control and prevention of flooding.



Definitions	
Environmental Management Plan (EMP)	A plan prepared before the start of construction work, detailing 'environmental aspects' that may be affected by the construction work and management methods to prevent any such effects. The EMP would include methods and site management practices to be applied to prevent generation of nuisance dust, accidental pollution events and a range of other potential sources of accidental damage to the environment, and response and reporting procedures to minimise the damage in the event of a pollution incident.
Environmental Statement (ES)	The report on the results of the EIA.
European site	A nature conversation site protected under the EU Habitats Directive (SAC) or the EU Birds Directive (SPA).
Examining Authority (ExA)	The inspector or panel of inspectors appointed by PINS to conduct the Examination and consider the DCO application.
Examination	This is the formal, legal process governed by the PA 2008 and related legislation. The Examination stage starts the day after the Preliminary Meeting and can last up to six months.
Exceedance	Infringement environmental protection standards by exceeding allowable limits or concentration levels.
Fieldwalking survey	Method of systematic non-intrusive survey involving walking across a plough field along transects to collect archaeological artefacts.
Fugitive Dust	Visible emissions of dust that does not come from a definable point source, for example a smoke stack. Typical examples would include stored piles of soil, dry bare earth on construction sites or haul roads etc.
Future Year	This is a specified year in the future, usually15 years after the opening of the project. This is used to make predictions using computer models for both traffic flows and related environmental effects.
Geology	Geology is the study of solid earth, the material of which it is composed (principally rocks) and the processes by which they evolve.
Geophysical survey	Method of non-intrusive investigation involving the use of magnetometers to identify fluctuations in the earth's magnetic field which might indicate the presence of archaeological remains. Burnt remains and metals are best identified through this method of survey.
Grade Separated	Refers to a junction where one road has been elevated or lowered to a different level so that the main flow of traffic is separated.
Greenfield runoff	The rate of discharge that would be expected from an area of undeveloped land with entirely soil covered, permeable surfaces. Such areas release water into watercourses much more slowly than areas with hard, impermeable surfaces.



Definitions	
Ground Flora	Ground flora refers to small non-woody plants growing at ground level within woodland areas, such as primroses, bluebells, celandine etc.
Highways England Water Risk Assessment Tool (HEWRAT)	A method developed by Highways England to assist in assessing impact on water quality in accordance with DMRB.
Hedgerow	Hedgerow is defined as any boundary line of trees or shrubs over 20 m long and less than 5 m wide, between major woody stems at the base (Defra, 2007).
Handover Environmental Management Plan (HEMP)	The environmental management plan developed towards the end of the construction of the Authorised Development to define future environmental management and maintenance.
Heritage asset	An item of heritage interest, for example an historic building or an archaeological find.
Hibernacula	The place/ structure/ shelter chosen by an animal for hibernation.
Highways England	The applicant and government company charged with operating, maintaining and improving England's motorway and major A roads. Formerly the Highways Agency.
Historic Environment Records (HER)	A database maintained by individual counties or local authorities, containing records of archaeological sites, historic buildings and other aspects.
Historic landscape character types (HLCT)	Historic landscape character types are distinctive and repeated combinations of components defining generic historic landscapes such as 'ancient woodland' or 'parliamentary enclosure'. The types used in this study were defined based on evidence from historic maps and other sources.
Imperative Reasons of Over- riding Public Interest (IROPI)	A set of circumstances which must be satisfied under the HRA procedure before a scheme can be approved in the event that there are adverse effects on the integrity of a European site which cannot be avoided.
Impermeable	Impermeable surfaces are those where water cannot pass through the surface and soak into the underlying ground. This means that all of the water will flow rapidly off the surface. In the case of a highway, it will flow off the road surface into the highway drainage system.
Initial Assessment of Principal Issues	A consolidated list of the principal issues arising from the Examining Authority's reading of the application documents and any Relevant Representations received.



	Definitions
Interested Party	Interested Parties are people or bodies who may participate in the examination of the application and will receive formal notifications as the Examination progresses. Some people and organisations are automatically Interested Parties and don't need to register to become an Interested Party. Other people and organisations must register to become an Interested Party by making a Relevant Representation to the Planning Inspectorate at the appropriate time and before the specified deadline.
Interim Advice Note	Published by Highways England (formerly the Highways Agency) to modify/ update guidance given within DMRB, in advance of the permanent replacement of the relevant sections of DMRB.
Iron Age	The period of human activity between 700 BC and 43 AD.
Issue Specific Hearing (ISH)	A hearing or hearings on specific issue(s) may be held if the Examining Authority considers it necessary to ensure adequate examination of the issue or ensure that an Interested Party has a fair chance to put their case.
LA10,18h	The A-weighted sound level in dB that is exceeded 10% of the measurement period and is the standard index used within the UK to describe daytime traffic noise.
LAeq,T	The A-weighted steady sound level over time interval T that has the same mean square pressure as the time varying noise over the same time interval.
Local Access Forum	Statutory bodies, prescribed under the Countryside and Rights of Way Act 2000 and appointed by a local highway authority or national park authority. Their function is to advise the relevant authority as to the improvement of public access to land for the purposes of open-air recreation and the enjoyment of the area. LAFs comprise appointed members who must be representative of both users of local rights of way or access land and owners and occupiers of access land or land encompassing local rights of way.
Landform	'Landform' is the combination of slope and elevation that produce the shape and form of the land.
Landscape Character Assessment (LCA)	Landscape character assessment is the process of categorising the landscape into different Landscape Character Areas. The purpose of this process is to aid the formulation and implementation of planning policies relating to the landscape.
Light Detection and Ranging (LiDAR)	A remote sensing operation using data taken from the air to identify changes in the landform.
Limit value	The concentration of certain specific pollutants in the air that are not to be exceeded, under the Air Quality Standards that implement the European Directive on Ambient Air Quality and Clean Air for Europe – 2008/50/EC.



	Definitions
Link	A stretch of road between two junctions. For major strategic routes such as motorways, the volume of traffic along a link remains constant along its whole length, because traffic can only join or leave at the junctions. For many other roads this is not the case, because traffic can join or leave at other access points such as private properties, businesses etc.
Lnight	The equivalent continuous sound level which has the same A-weighted mean square pressure as the time varying noise between 23:00 and 07:00.
Limit of Deviation (LoD)	A parameter within which a work may be constructed.
Made Ground	Ground created by infilling an area with material taken from elsewhere; typically, reworked soils, rubble, gravel, sand or former waste material e.g. ash.
Marginal habitat	Marginal habitats are areas of shallow water or wet ground around the edges (margins) of waterbodies and have their own characteristic flora and fauna.
Materials Management Plan (MMP)	The Materials Management Plan documents how all of the materials to be excavated are to be dealt with.
Medieval	The period of human activity between 1066 AD and 1550 AD.
Mesolithic	Middle Stone Age. The period of human activity between 10,000 BC and 4,500 BC.
Metal detector survey	Method of intrusive investigation involving the use of metal detectors to locate buried metal objects.
Mitigation	Measures which have the purpose of avoiding, reducing or compensating for adverse environmental impacts. It may also include measures to create environmental benefits.
Modern	The period of human activity from 1900 to the present day.
National Mapping Programme (NMP)	A project funded by Historic England and local councils involving assessment and interpretation of aerial photographs and other remote sensing data, such as LiDAR.
Nationally Significant Infrastructure Project (NSIP)	Any infrastructure project that is deemed, according to the criteria set in the PA, 2008 (as amended) to be nationally significant. Such projects are authorised through a statutory process that requires an application for a DCO, rather than a conventional planning application or the traditional model through the publication of Statutory Orders and the holding of Public Inquiries.
Natural England (NE)	A public body responsible for the protection of the natural environment and landscape in England and the management of NNRs and SSSIs.



	Definitions					
Neolithic	New Stone Age. The period of human activity between 4,500 BC and 2,500 BC.					
Non-motorised user (NMU)	Includes walkers, cyclists and horse riders.					
Noise Important Area	Where 1% of the population are affected by the highest noise levels from major roads according to the results of Defra's strategic noise maps.					
Nitrogen oxides (NOx)	Nitrogen oxides is a term used to describe a mixture of nitric oxide (NO) and nitrogen dioxide (NO2), referred to collectively as NOx. These are primarily formed from atmospheric and fuel nitrogen as a result of high temperature combustion. The most important sources in the UK are road traffic and power generation.					
Observed Effect Level	The level above which adverse effects on health and quality of life can be detected.					
Oblique angle of view	An angled view rather than a direct view, in which features would be less noticeable.					
On-line	'On-line' highway improvement means that the work will be undertaken on the line of the existing road (rather than alongside it).					
Open Floor Hearing	An Open Floor Hearing must be held if requested by an Interested Party or if the Examining Authority considers it necessary. Anyone who is an Interested Party may request an Open Floor Hearing					
Oral Representation	This is the term used to describe a representation made in person at a hearing. An Oral Representation should be based on either the Relevant Representation or Written Representation made by the person by whom or on whose behalf the Oral Representation is made.					
Order Land	The area of land within Order Limits.					
Order Limits	Means the boundaries within which the Authorised Development may be carried out.					
Ordnance Datum	The standard measure of sea level in the UK, from which all heights are measured for mapping purposes.					
Outfalls	The location at which runoff is discharged into a watercourse.					
Palaeolithic	Old Stone Age. The period of human activity before around 10,000 BC.					
Photomontage	A photorealistic image of the Scheme, based on a 3D computer model of the Scheme, overlaid onto a base photograph to visually represent the Scheme. Features that would be removed as part of the Scheme are removed from the base photograph.					



	Definitions
Planning Inspectorate (PINS)	An executive agency of the Ministry for Housing, Communities and Local Government. The Planning Inspectorate is responsible for the examination of Development Consent Orders under the PA 2008 and making a recommendation to the Secretary of State.
PM ₁₀ / PM _{2.5}	Particulate Matter less than 10 or 2.5 microns, respectively – e.g. tiny solid or liquid particles of soot, dust, smoke, fumes, and aerosols. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the air sacs in the lungs where they may be deposited, resulting in adverse health effects.
Post-medieval	The period of human activity between 1550 AD and 1900 AD.
Prehistoric	The period before the year 43 AD.
Preliminary Environmental Information (PEI)	Information that the applicant must publicise before carrying out consultation of the community in advance of applying for a DCO, if the project concerned is subject to a requirement of EIA.
Preliminary Meeting	A meeting held to discuss the procedural issues of the Examination. This meeting is usually held after the deadline for making a Relevant Representation has passed and once the Examining Authority has made its Initial Assessment of Principal Issues.
Prescribed Consultees	Means persons or bodies to be consulted pursuant to s42 (1) (a) of the PA 2008 as set out in Schedule 1 of the APFP 2009 (see also Statutory consultees).
Ramsar site	A site listed as a wetland of international importance under the Convention on Wetlands of International Importance Especially as Waterfowl Habitat 1973 (The Ramsar Convention).
Receptor	The existing environmental feature that would be affected by an impact – for instance, the population of a protected species, or a specific archaeological site, or the occupants of a residential property.
Recycled road planings	Old road surface materials removed from redundant carriageways or areas to be re-surfaced.
Red and Amber List Species	Red List and Amber List – as defined in 'Birds of Conservation Concern 3: the population status of birds in the United Kingdom, Channel Islands and the Isle of Man (2009).
Relevant Representation (RR)	A written summary of the aspects of the application a person agrees and/ or disagrees with and their reasons why. After an application has been accepted by the Examining Authority and before the Examination starts, the public will be able to register with PINS to become an Interested Party by making a Relevant Representation.



	Definitions
Report on the Implications for a European Site (RIES)	Under the HRA procedure, the Examining Authority must send a RIES to the SoS to summarise findings and conclusions on any HRA issues which were the focus of the Examination, and document all the information and evidence available. A RIES is usually issued towards the end of the Examination period.
Requirement	A requirement listed in the Development Consent Order which is a condition of the grant of development consent.
Roman	The period of human activity between 43 AD and 410 AD.
Routine runoff	Means water draining from the road surface into nearby watercourses whenever it rains, which tends to wash contaminants from the road surface into the nearby watercourses.
Rule 6 letter	A letter sent by the Examining Authority to the Applicant giving notice of Preliminary Meeting. The letter also sets out an agenda for the Preliminary Meeting and a draft Examination timetable
Saxon	The period of human activity between 410 AD and 1066 AD
The Scheme	The development for which the order granting development consent is sought
S37, s42, s43, s44, s45 (etc.)	Refers to relevant sections of the PA 2008 (as amended).
Scrub	Scrub is a climax vegetation dominated by locally native shrubs, usually less than 5 m tall, occasionally with a few scattered trees (JNCC, 2010).
Site of Special Scientific Interest	A statutory designation under the Wildlife and Countryside Act 1981 (as amended), protecting nationally important wildlife sites, habitats and geological sites.
Site Waste Management Plan (SWMP)	A plan which specifies how waste generated throughout the construction works will be managed and volumes estimated. This includes minimisation, storage, segregation, re-use and final disposal of wastes generated.
Soil Resource Plan (SRP)	Part of the Code of Practice for the Sustainable Use of Soils on Construction Sites used to protect soils and ensure adequate soil function (e.g. plant growth, water attenuation, biodiversity) during and after construction.
Special Area of Conservation (SAC)	Strictly protected sites designed under the EU Habitats Directive, representing internationally important, high-quality conservation sites that significantly contribute to conserving the 189 habitat types and 788 species identified in Annexes I and II of the Directive (as amended).
Special Protection Area (SPA)	SPAs are classified in accordance with EU Directive on the conservation of wild birds, known as the Birds Directive. SPAs protect rare and vulnerable birds (as listed on Annex I of the Birds Directive), and regularly occurring



Definitions				
	migratory species.			
Statement of Community Consultation (SoCC)	A statement published by the proposer of a Nationally Significant Infrastructure Project, detailing how they intend to consult the community about their project before applying for a DCO. Required under the PA 2008, as amended by the Localism Act, 2011.			
Statutory Consultation	Community and stakeholder consultation carried out in line with the statutory requirements set out in s42, s47 and s48 of the PA 2008.			
Statutory consultees	Organisations that Highways England is required to consult under s42 of the PA 2008. Statutory consultees are listed in Schedule 1 of the APFP 2009.			
Statutory undertakers (SU)	Companies or bodies with statutory powers and duties to carry out functions of a public nature, such as gas, electricity, water, telecommunications code operators and transport providers.			
Transport Analysis Guidance	Department for Transport guidance on the appraisal of transport strategies and projects, providing for a framework for decision-making on the funding of projects.			
Treatment	'Treatment' means any method used to improve the quality of water before discharge through the removal of sediment or pollutants.			
Woodlands	Vegetation dominated by trees more than 5 m high when mature, forming a distinct, although sometime open, canopy (JNCC, 2010).			
Written representation	A more detailed written account of what an Interested Party agrees and/ or disagrees with in a DCO, together with any evidence or documents to support this. It is an opportunity to expand on the issues an Interested Party has set out in their Relevant Representation.			
Zone of Theoretical Visibility (ZVT)	The zone from which the Scheme is theoretically visible over 'bare earth'.			

APPENDIX A - APPLICATION DOCUMENT TRACKER

• Submitted at Application on 15 March 2021.

Application Document Reference	Examination Document Library Reference	Name of Document	Version Number	Document to be Certified (Y/N)	Examination Deadline /Submission Date
1.1	Reference	Application Form	0	N N	15 th March 2021
1.2			0	N	15 th March 2021
		Covering Letter and Completed Section 55 Checklist			
1.3		Introduction to the Application	0	N	15 th March 2021
2.1		Location Plan	0	N	15 th March 2021
2.2		General Arrangement Plans	0	Y	15 th March 2021
2.3		Land Plans	0	Υ	15 th March 2021
2.4		Works Plans	0	Υ	15 th March 2021
2.5		Rights of Way and Access Plans	0	Υ	15 th March 2021
2.6		Traffic Regulations Plans	0	Υ	15 th March 2021
2.7		Engineering Drawings and Sections	0	Υ	15 th March 2021
2.8		Drainage and Surface Water Plans	0	N	15 th March 2021
2.9		Crown Land Plans	0	N	15 th March 2021
2.10		Special Category Land Plans	0	Y	15 th March 2021
2.11		Classification of Roads Plans	0	Υ	15 th March 2021
2.12		Hedgerow Plans	0	Y	15 th March 2021
2.13		De-trunking Plans	0	Y	15 th March 2021
3.1		Draft Development Consent Order	0	N	15 th March 2021
3.2		Explanatory Memorandum	0	N	15 th March 2021
3.3		Consents and Agreements Position Statement	0	N	15 th March 2021
4.1		Statement of Reasons	0	N	15 th March 2021
4.2		Funding Statement	0	N	15 th March 2021
4.3		Book of Reference	0	Y	15 th March 2021
5.1		Consultation Report	0	N	15 th March 2021

Application Document Reference	Examination Document Library Reference	Name of Document	Version Number	Document to be Certified (Y/N)	Examination Deadline /Submission Date
5.2		Consultation Report Annex A: Options consultation materials	0	N	15 th March 2021
5.2		Consultation Report Annex B: The Infrastructure Planning (EIA) Regulations 2017: Regulation 8(1) and 10(1) letter to PINS	0	N	15 th March 2021
5.2		Consultation Report Annex C: Copies of the draft SoCC provided to local authorities	0	N	15 th March 2021
5.2		Consultation Report Annex D: Correspondence to local authorities for SoCC consultations	0	N	15 th March 2021
5.2		Consultation Report Annex E: Response from local authorities on the draft SoCC	0	N	15 th March 2021
5.2		Consultation Report Annex F: Published SoCC	0	N	15 th March 2021
5.2		Consultation Report Annex G: Section 47 and 48 newspaper notices	0	N	15 th March 2021
5.2		Consultation Report Annex H: Section 46 notification letter sent to PINS	0	N	15 th March 2021
5.2		Consultation Report Annex I: Section 42 letters and enclosures	0	N	15 th March 2021
5.2		Consultation Report Annex J: Section 47 consultation materials	0	N	15 th March 2021
5.2		Consultation Report Annex K: List of prescribed consultees identified and consulted	0	N	15 th March 2021
5.2		Consultation Report Annex L: December 2020 project update and targeted consultation	0	N	15 th March 2021
5.2		Consultation Report Annex M: Engagement with stakeholders	0	N	15 th March 2021

Application Document Reference	Examination Document Library Reference	Name of Document	Version Number	Document to be Certified (Y/N)	Examination Deadline /Submission Date
5.2		Consultation Report Annex N: Table evidencing regard had to statutory consultation responses (in accordance with S49 of the Planning Act 2008)	0	N	15 th March 2021
5.2		Consultation Report Annex O: Table evidencing regard had to targeted consultation and project update responses (in accordance with S49 of the Planning Act 2008)	0	N	15 th March 2021
6.1		Environmental Statement - Chapter 1: Introduction	0	Υ	15 th March 2021
6.1		Environmental Statement - Chapter 2: The Proposed Scheme	0	Y	15 th March 2021
6.1		Environmental Statement - Chapter 3: Assessment of Alternatives	0	Y	15 th March 2021
6.1		Environmental Statement - Chapter 4: Environmental Assessment Methodology	0	Y	15 th March 2021
6.1		Environmental Statement - Chapter 5: Air Quality	0	Υ	15 th March 2021
6.1		Environmental Statement - Chapter 6: Cultural Heritage	0	Y	15 th March 2021
6.1		Environmental Statement - Chapter 7: Landscape and Visual Effects	0	Y	15 th March 2021
6.1		Environmental Statement - Chapter 8: Biodiversity	0	Υ	15 th March 2021
6.1		Environmental Statement - Chapter 9: Geology and Soils	0	Y	15 th March 2021
6.1		Environmental Statement - Chapter 10: Materials Assets and Waste	0	Y	15 th March 2021
6.1		Environmental Statement - Chapter 11: Noise and Vibration	0	Y	15 th March 2021
6.1		Environmental Statement - Chapter 12: Population and Human Health	0	Y	15 th March 2021



A47 North Tuddenham to Easton Dualling Introduction to the Application

Application Document Reference	Examination Document Library Reference	Name of Document	Version Number	Document to be Certified (Y/N)	Examination Deadline /Submission Date
6.1		Environmental Statement - Chapter 13: Road Drainage and Water Environment	0	Y	15 th March 2021
6.1		Environmental Statement - Chapter 14: Climate	0	Υ	15 th March 2021
6.1		Environmental Statement - Chapter 15: Cumulative Effects Assessment	0	Y	15 th March 2021
6.2		Environmental Statement Figures 1.1	0	Υ	15 th March 2021
6.2		6.2 Environmental Statement Figure 1.1	0	Y	15 th March 2021
6.2		6.2 Environmental Statement Figures 2.1 to 2.3	0	Y	15 th March 2021
6.2		6.2 Environmental Statement Figures 5.1 to 5.4	0	Υ	15 th March 2021
6.2		6.2 Environmental Statement Figures 5.5 to 5.8	0	Υ	15 th March 2021
6.2		6.2 Environmental Statement Figures 6.1 to 6.4	0	Υ	15 th March 2021
6.2		6.2 Environmental Statement Figures 7.1 to 7.5	0	Y	15 th March 2021
6.2		6.2 Environmental Statement Figures 7.6.1 to 7.6.2	0	Υ	15 th March 2021
6.2		6.2 Environmental Statement Figures 7.6.3 to 7.6.4	0	Y	15 th March 2021
6.2		6.2 Environmental Statement Figures 7.6.5 to 7.6.6	0	Y	15 th March 2021
6.2		6.2 Environmental Statement Figures 7.6.7 (A to D)	0	Y	15 th March 2021
6.2		6.2 Environmental Statement Figures 7.6.8 (A to D)	0	Y	15 th March 2021
6.2		6.2 Environmental Statement Figures 7.6.9 to 7.6.10	0	Υ	15 th March 2021
6.2		6.2 Environmental Statement Figures 7.6.11 to 7.6.12	0	Υ	15 th March 2021
6.2		6.2 Environmental Statement Figures 7.6.13 to 7.6.15	0	Y	15 th March 2021
6.2		6.2 Environmental Statement Figures 7.6.16 to 7.6.19	0	Y	15 th March 2021
6.2		6.2 Environmental Statement Figures 7.6.20 to 7.6.22	0	Υ	15 th March 2021
6.2		6.2 Environmental Statement Figures 8.1 to 8.4	0	Y	15 th March 2021
6.2		6.2 Environmental Statement Figures 9.1 to 9.3	0	Y	15 th March 2021
6.2		6.2 Environmental Statement Figures 10.1 to 10.3	0	Y	15 th March 2021
6.2		6.2 Environmental Statement Figures 11.1 to 11.8	0	Y	15 th March 2021
6.2		6.2 Environmental Statement Figures 11.9 to 11.18	0	Y	15 th March 2021
6.2		6.2 Environmental Statement Figures 11.19 to 11.28	0	Y	15 th March 2021

Application Document Reference	Examination Document Library Reference	Name of Document	Version Number	Document to be Certified (Y/N)	Examination Deadline /Submission Date
6.2		6.2 Environmental Statement Figures 12.1 to 12.3	0	Y	15 th March 2021
6.2		6.2 Environmental Statement Figures 13.1 to 13.4	0	Υ	15 th March 2021
6.2		6.2 Environmental Statement Figures 13.5 to 13.8	0	Υ	15 th March 2021
6.2		6.2 Environmental Statement Figure 15.1	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 4.1: Scoping Opinion Response Table	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 5.1: Air Quality Dispersion Modelling Process	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 5.2: Air Quality Verification and Model Adjustment	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 5.3: Air Quality Receptor Results	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 6.1: Cultural Heritage Information	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 6.2: Geophysical Survey, Part 1 of 2	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 6.2: Geophysical Survey, Part 2 of 2	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 6.3: Archaeological Evaluation	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 7.1: Planning Policy Context	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 7.2: ZTV and Verified Photomontage Methodology	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 7.3: Landscape Character Areas	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 7.4: Visual Receptors	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 7.5: Representative Viewpoints	0	Y	15 th March 2021

Application Document Reference	Examination Document Library Reference	Name of Document	Version Number	Document to be Certified (Y/N)	Examination Deadline /Submission Date
6.3		6.3 Environmental Statement - Appendix 7.6: Arboricultural Impact Assessment	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 7.7: Lighting Assessment	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 8.1: Botanical Survey Report	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 8.2: Fungi Survey Report	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 8.3: Terrestrial Invertebrate Survey Report	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 8.4 River Tud Corridor Aquatic Invertebrate Survey	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 8.5 White- clawed Crayfish Survey Report	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 8.6: Great Crested Newt Survey Report	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 8.7: Reptile Survey Report	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - 6.2 Appendix 8.8: Breeding Bird Survey Report	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 8.9: Barn Owl Survey Report	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 8.10: Wintering Bird Survey Report	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 8.11: Bat Hibernation Report	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 8.12: Bat Survey Report	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 8.13: Bat Crossing Point Report	0	Y	15 th March 2021

Application Document Reference	Examination Document Library Reference	Name of Document	Version Number	Document to be Certified (Y/N)	Examination Deadline /Submission Date
6.3		6.3 Environmental Statement - Appendix 8.14: Otter and Water Vole Survey Report	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 8.15: CONFIDENTIAL Badger Survey Report	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 8.16: DMRB Biodiversity Evaluation Assessment Methodology	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 8.17: Legislation and Policy Framework	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 9.1: Hierarchy of Screening Criteria for Generic Quantitative Risk Assessment	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 9.2: Agricultural Land Classification	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 10.1: Legislation and Policy Framework	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 10.2: Outline Site Waste Management Plan	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 10.3: Mineral Impact Assessment	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 11.1: Glossary of Terms	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 11.2: Legislation and Policy Framework	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 11.3: Baseline Noise Survey	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 11.4: Traffic Data Comparison and Model Validation	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 11.5: Construction Noise Assessment	0	Y	15 th March 2021



A47 North Tuddenham to Easton Dualling Introduction to the Application

Application Document Reference	Examination Document Library Reference	Name of Document	Version Number	Document to be Certified (Y/N)	Examination Deadline /Submission Date
6.3		6.3 Environmental Statement - Appendix 12.1: Population and Human Health Questionnaire Responses	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 13.1: Flood Risk Assessment, Part 1 of 2	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 13.1: Flood Risk Assessment, Part 2 of 2	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 13.2: Drainage Strategy Report, Part 1 of 2	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 13.2: Drainage Strategy Report, Part 2 of 2	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 13.3: Water Quality Assessment	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 13.4: Groundwater Assessment	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 13.5: Geomorphology Assessment Report	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 14.1: Embodied Carbon Assessment	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 15.1: Cumulative Effects Assessment Long List	0	Y	15 th March 2021
6.3		6.3 Environmental Statement - Appendix 15.2: Cumulative Effects Assessment Shortlist	0	Y	15 th March 2021
6.4		Environmental Statement Non-Technical Summary	0	N	15 th March 2021
6.5		EIA Scoping Report	0	N	15 th March 2021
6.6		EIA Scoping Opinion	0	N	15 th March 2021
6.7		Statement Relating to Statutory Nuisance	0	N	15 th March 2021
6.8		Environmental Masterplan	0	Υ	15 th March 2021
6.9		Report to Inform Habitats Regulations Assessment	0	N	15 th March 2021
7.1		Case for the Scheme	0	N	15 th March 2021



A47 North Tuddenham to Easton Dualling Introduction to the Application

Application Document Reference	Examination Document Library Reference	Name of Document	Version Number	Document to be Certified (Y/N)	Examination Deadline /Submission Date
7.2		National Policy Statement for National Networks Accordance Tables	0	N	15 th March 2021
7.3		Scheme Design Report	0	N	15 th March 2021
7.4		Environmental Management Plan	0	Υ	15 th March 2021
7.5		Outline Traffic Management Plan	0	Υ	15 th March 2021
7.6		Equality Impact Assessment	0	N	15 th March 2021