

Lower Thames Crossing  
**7.4 Project Design Report**  
**Part H: References and Appendices**

APFP Regulation 5(2)(q)  
Infrastructure Planning  
(Applications: Prescribed Forms and Procedure)  
Regulations 2009

Part 10

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## Glossary

Term	Abbreviation	Explanation
A122 Lower Thames Crossing	Project	A proposed new crossing of the Thames Estuary linking the county of Kent with the county of Essex, at or east of the existing Dartford Crossing.
Above ordnance datum	AOD	Vertical datum used by the Ordnance Survey as the basis for deriving altitudes on maps.
Alignment	-	The horizontal (lateral) or vertical (height) position of a road. It can be defined by a series of horizontal tangents and curves or vertical crest and sag curves, and the gradients connecting them.
AM Peak	-	The morning peak period of traffic.
Area of Outstanding Natural Beauty	AONB	Statutory designation intended to conserve and enhance the ecology, natural heritage and landscape value of an area of countryside.
Below Ground Level	BGL	A term typically accompanied by a depth in metres to denote a point that occurs beneath the surface of the ground.
Bluewater	-	Bluewater Shopping Centre, an out-of-town shopping centre in Stone, Kent, outside the M25 Orbital motorway, 17.8 miles (28.6km) east-south-east of London's centre.
Bridge	BR	Bridge (when used as part of a project's shortlist route reference).
Bridleway	BR	A route along which the general public has rights to travel on foot or horseback. Cyclists may use a bridleway but are obliged to give way to other users on foot or horseback.
British Horse Society	BHS	-
Carr woodland	-	Wet woodland characterised by trees such as willows, birches and alder that thrive in poorly drained and seasonally flooded soils.
Chadwell St Mary link	-	Proposed section of the Project between the Tilbury Loop railway line and A13 junction.
Common land	-	Land owned collectively by a number of persons, or by one person, but over which other people have certain traditional rights of use.
Conservation Area	-	An area of special environmental or historic interest or importance, of which the character or appearance is protected by law against undesirable changes (Section 69 of the Planning (Listed Buildings and Conservation Areas) Act 1990).
Construction compound	-	A compound used during construction for the storage of material, assembly of components or for other construction related activities.
Construction Materials and Aggregates Terminal	CMAT	-
Dartford Crossing	DC	Road crossing of the River Thames in England, carrying the A282 road between Dartford in Kent to the south with Thurrock in Essex to the north. It consists of two bored tunnels and the cable-stayed Queen Elizabeth II Bridge.
Department for Environment, Food and Rural Affairs	Defra	The government department responsible for environmental protection, food production and standards, agriculture, fisheries and rural communities in the United Kingdom of Great Britain and Northern Ireland.
Department for Transport	DfT	The government department responsible for the English transport network and a limited number of transport matters in Scotland, Wales and Northern Ireland that have not been devolved.
Design & Access Statement	DAS	-

Term	Abbreviation	Explanation
Design Manual for Roads and Bridges	DMRB	A comprehensive manual which contains requirements, advice and other published documents relating to works on motorway and all-purpose trunk roads for which one of the Overseeing Organisations (National Highways, Transport Scotland, the Welsh Government or the Department for Regional Development (Northern Ireland)) is the highway authority. For the A122 Lower Thames Crossing, the Overseeing Organisation is National Highways.
Development Consent Order	DCO	Means of obtaining permission for developments categorised as Nationally Significant Infrastructure Projects (NSIP) under the Planning Act 2008.
Disbenefit	-	A negative benefit.
DMPO	-	The Town and Country Planning (Development Management Procedure) (England) Order 2015.
Environment Agency	EA	A non-departmental public body of Defra, established under the Environment Act 1995. It is the leading public body for protecting and improving the environment in England and Wales. The organisation is responsible for wide-ranging matters, including the management of all forms of flood risk, water resources, water quality, waste regulation, pollution control, inland fisheries, recreation, conservation and navigation of inland waterways.
Environmental Impact Assessment	EIA	A process by which information about environmental effects of a proposed development is collected, assessed and used to inform decision making. For certain projects, EIA is a statutory requirement, reported an Environmental Statement.
Environmental Statement	ES	A document produced to support an application for development consent that is subject to Environmental Impact Assessment (EIA), which sets out the likely impacts on the environment arising from the proposed development.
European Union	EU	A politico-economic union of 27 member states that are located primarily in Europe.
False cutting	-	A means of screening a linear feature such as a road or railway by forming embankments on both sides of the feature.
Flood Zone 1	FZ1	Land having a less than 1 in 1,000 (<0.1%) annual probability of river or sea flooding.
Flood Zone 2	FZ2	Land categorised by the Environment Agency as having between a 1 in 100 (1%) and 1 in 1,000 (0.1%) annual probability of river flooding; or land having between a 1 in 200 (0.5%) and 1 in 1,000 (0.1%) annual probability of sea flooding.
Flood Zone 3	FZ3	Land categorised by the Environment Agency. Split into two separate sub-categories by local planning authorities: 3a and 3b. However, the Environment Agency does not use these sub-categories on its mapping:  Flood Zone 3a: Land having a 1 in 100 (1%) or greater annual probability of river flooding; or land having a 1 in 200 (0.5%) or greater annual probability of sea flooding.  Flood Zone 3b: Land where water has to flow or be stored in times of flood, classified as 'functional floodplain'. Local planning authorities should identify in their Strategic Flood Risk Assessments areas of functional floodplain and its boundaries accordingly, in agreement with the Environment Agency.
Footpath	FP	-
Gravesend link	-	Section of the Project between the proposed M2/A2/Lower Thames Crossing junction and the South Portal.
Green bridges	-	Bridges over linear infrastructure projects like roads and railways, constructed to enable safe crossing by animals, reducing severance.
Green Infrastructure	-	A strategically planned and delivered network comprising high-quality green spaces and other environmental features. It should be designed and managed as a multifunctional resource capable of delivering environmental and quality of life benefits. Its design and management should also respect and enhance the character and distinctiveness of an area with regard to habitats and landscape types.

Term	Abbreviation	Explanation
Habitat	-	The natural home or environment of an animal, plant, or other organism.
Habitats Regulations Assessment	HRA	A tool developed by the European Commission to help competent authorities (as defined in the Habitats Regulations) to carry out assessment to ensure that a project, plan or policy will not have an adverse effect on the integrity of any Natura 2000 or European sites (Special Areas of Conservation, Special Protection Areas and Ramsar sites), either in isolation or in combination with other plans and projects, and to begin to identify appropriate mitigation strategies where such effects were identified.
Heavy Goods Vehicle	HGV	Heavy Goods Vehicle.
Heritage asset	-	A building, monument, site, place, area or landscape identified as having a degree of significance meriting consideration in planning decisions because of its heritage interest. Heritage assets include designated heritage assets and assets identified by the local planning authority (including local listing).
High Speed 1	HS1	A 109km high-speed railway between London and the UK end of the Channel Tunnel. The line carries international passenger traffic between the UK and continental Europe; it also carries domestic passenger traffic to and from stations in Kent and east London, as well as Berne gauge freight traffic.
Highways England	HE	Former name of National Highways.
Historic England	-	The public body that looks after England's historic environment. An executive non-departmental public body of the UK Government sponsored by the Department for Digital, Culture, Media and Sport, and the Government's advisor on heritage.
Historic landfill	-	Sites where records of waste being received to be buried are now closed, meaning there is no Pollution Prevention and Control (PPC) permit or waste management licence in force. This also applies to landfills which had no permit to operate in the first instance, such as those which operated before the Control of Pollution Act 1974.
Interim Advice Notice	IAN	Issued by National Highways. They contain specific guidance, which should only be used in connection with works on motorways and trunk roads in England.
Invertebrates	-	Animals without backbones.
Lakeside Shopping Centre	-	A large out-of-town shopping centre located in West Thurrock, in the borough of Thurrock, Essex, just beyond the eastern boundary of Greater London.
Landscape and Ecology Management Plan	LEMP	A document which provides details on the delivery and management of the landscape and ecology elements identified in the Environmental Masterplan for the Project, including their success criteria.
Landscape character	-	A distinct, recognisable and consistent pattern of elements in the landscape that makes one landscape different from another, rather than better or worse (source of definition: GLVIA3).
Landscape Character Area	LCA LLCA	The 'discrete geographical areas of particular landscape type' (source of definition: GLVIA3). Note: Local Landscape Character Area is referred to as LLCA.
Light Attenuation Structure	LAS	-
Limits of deviation	LOD	The tolerances, both laterally and vertically, that any parts of the Project can be constructed from the lines and situations shown on the Works Plans (Application Document 2.6) and the levels shown on the Engineering Section Drawings (Application Document 2.9).
Link road	-	In the context of junctions, a one way connector road adjacent to but separate from the mainline carriageway carrying traffic in the same direction, which is used to connect the mainline carriageway to the local highway network where successive direct connections cannot be provided to an adequate standard because the junction spacing is too close.



Term	Abbreviation	Explanation
Listed building	-	A measure of a building's special architectural and historic interest, including it in the planning system so that it can be protected for future generations. Listing includes the interior, exterior and the setting of the building. There are three categories of listed buildings: <ul style="list-style-type: none"> <li>• Grade I buildings are of exceptional interest (only 2.5% of listed buildings are Grade I)</li> <li>• Grade II* buildings are particularly important buildings of more than special interest (5.8% of listed buildings)</li> <li>• Grade II buildings are of special interest (91.7% of all listed buildings).</li> </ul>
Local Plan	-	A Local Plan sets out local planning policies and identifies how land is used, determining what will be built where. Adopted Local Plans provide the framework for local development across England.
Local Planning Authority	LPA	A local planning authority is the local authority or council that is empowered by law to exercise statutory town planning functions for a particular area of the UK. May also be referred to as 'local authority'.
Local Wildlife Site	LWS	Locally designated nature site protected through the planning system.
London Gateway	-	A new deep-water port, able to handle the biggest container ships in the world, and part the London Gateway development on the north bank of the River Thames in Thurrock, Essex, 20 miles (32km) east of central London.
M2/A2/A122 Lower Thames Crossing junction	-	New junction proposed as part of the Project to the east of Gravesend between the A2 and the new A122 Lower Thames Crossing with connections to the M2.
M25 junction 29	-	Improvement works to M25 junction 29 and to the M25 north of junction 29. The M25 through junction 29 will be widened from three lanes to four in both directions with hard shoulders.
M25 Motorway	M25	Orbital motorway that encircles most of Greater London.
Mardyke	-	A small river, mainly in Thurrock, that flows into the River Thames at Purfleet, close to the QEII Bridge.
Mardyke Viaduct	-	New viaduct to carry the A122 Lower Thames Crossing road over the Mardyke and a farm access track. The Mardyke is a small river, mainly in Thurrock, that flows into the River Thames at Purfleet.
Mechanical and Electrical	M&E	-
Mitigation	-	Measures that have been identified through the assessment process to further reduce the impact of significant effects.
Motorised user	-	A collective term to describe people who make vehicle journeys.
National Cycle Network	NCN	A series of traffic-free paths and quiet, on-road cycling and walking routes that connect to every major town and city. These routes are promoted for both recreational and active travel purposes.
National Cycle Route	NCR	A cycle route part of the National Cycle Network created by Sustrans to encourage cycling throughout Britain.
National Highways	-	A UK government-owned company with responsibility for managing the motorways and major roads in England. Formerly known as Highways England.
National Highways Design Review Panel	NHDRP	-
National Infrastructure Commission	NIC	An executive agency of HM Treasury set up to enable long-term infrastructure planning.

Term	Abbreviation	Explanation
National Planning Policy Framework	NPPF	The National Planning Policy Framework was published in March 2012 by the UK's Department of Communities and Local Government, consolidating over two dozen previously issued documents called Planning Policy Statements (PPS) and Planning Practice Guidance Notes (PPG) for use in England. The NPPF was updated in February 2019 and again in July 2021 by the Ministry of Housing, Communities and Local Government.
National Policy Statement	NPS	There are 12 designated National Policy Statements (NPSs), setting out government policy on different types of national infrastructure development, including energy, transport, water and waste. NPSs provide the framework within which Examining Authorities make their recommendations to the Secretary of State.
National Policy Statement for National Networks	NPSNN	The NPSNN sets out the need for, and Government's policies to deliver, development of Nationally Significant Infrastructure Projects on the national road and rail networks in England. It provides planning guidance for promoters of Nationally Significant Infrastructure Projects on the road and rail networks, and the basis for the examination by the Examining Authority and decisions by the Secretary of State.
Nationally Significant Infrastructure Project	NSIP	Major infrastructure developments in England and Wales, such as proposals for power plants, large renewable energy projects, new airports and airport extensions, major road projects, etc. that require a development consent under the Planning Act 2008.
Natural England	NE	An executive non-departmental public body, sponsored by the Department for Environment, Food & Rural Affairs, which is the government's adviser for the natural environment in England, helping to protect England's nature and landscapes for people to enjoy and for the services they provide.
North Portal	-	The North Portal (northern tunnel entrance) would be located to the west of East Tilbury. Emergency access and vehicle turn-around facilities would be provided at the tunnel portal. The tunnel portal structures would accommodate service buildings for control operations, mechanical and electrical equipment, drainage and maintenance operations.
North Portal emergency and maintenance access	-	Emergency and maintenance access for the Tunnel, located at the North Portal.
North Portal Tunnel Services Building	-	Building located at the North Portal to accommodate mechanical, electrical and drainage equipment, and to control normal and maintenance operation of the tunnels.
Ockendon link	-	Section of the A122 Lower Thames Crossing between the A13 junction/Green Lane and the A122 Lower Thames Crossing/M25 junction.
Open Mosaic Habitat	OMH	Open Mosaic Habitats on Previously Developed Land (OMH) are found mainly in urban and formerly industrial areas and have high biodiversity value. This value includes rare plants, mosses, lichens and a large number of rare invertebrates, especially bees, wasps and beetles.
Order Limits	-	The Order Limits are the outermost extent of the Lower Thames Crossing indicated on the Plans by a red line. This is the Limit of Land to be Acquired or Used (LLAU) by the Lower Thames Crossing. This is the area in which the DCO would apply.
Ordnance datum	-	A standardised point representing average (mean) sea level, used by the Ordnance Survey as the basis for measurement of height (altitude) on UK maps, reported as metres 'Above Ordnance Datum'.
Ordnance Survey	OS	The national mapping agency of Great Britain.
Overhead line	OHL	An electrical conductor, suspended on towers or poles, used for transmission and distribution of electrical energy. It consists of one or more conductors (commonly multiples of three).
Pegasus Crossing	-	A type of signalised pedestrian crossing, with special consideration for horse riders (also referred to as an equestrian crossing).
Planning Act 2008	-	The primary legislation that establishes the legal framework for applying for, examining and determining Development Consent Order applications for Nationally Significant Infrastructure Projects.
Planning Inspectorate	PINS	An executive agency of the Department for Levelling Up, Housing and Communities. The Planning Inspectorate deals with planning appeals, national infrastructure planning applications, examinations of local plans and other planning-related and specialist casework in England and Wales.
Port of London Authority	PLA	A self-funding public trust established by The Port of London Act 1908 to govern the Port of London. Its responsibility extends over the Tideway of the River Thames and its continuation (the Kent/Essex strait). It maintains and supervises navigation, and protects the river's environment.



Term	Abbreviation	Explanation
Port of Tilbury	PoT	-
The Port of Tilbury London Limited	PoTLL	-
Preferred Route Announcement	PRA	Preferred Route Announcement by government of the preferred route for a new road or crossing.
Project Control Framework	PCF	National Highways Project Control Framework process. Setting out how National Highways, together with DfT, manage and deliver major improvement projects.
Project Design Report	PDR	-
Project Enhanced Structures	-	Structures where the design and appearance of specific parts of the project infrastructure is particularly important due to the wider impact they have.
Public Right of Way	PRoW	A right possessed by the public to pass along routes over land at all times. Although the land may be owned by a private individual, the public may still gain access across that land along a specific route. The mode of transport allowed differs according to the type of Public Right of Way, which can consist of footpaths, bridleways and open and restricted byways.
Pulverised fly ash	PFA	One of the coal combustion products, composed of the fine particles that are driven out of the boiler with the flue gases. Also known as “pulverised fuel ash” in the UK.
Potential Special Protection Area	pSPA	Sites which are approved by government that are in the process of being classified as Special Protection Areas.
Ramsar site	-	A wetland of international importance, designated under the Ramsar Convention.
Register of Environmental Actions and Commitments	REAC	The REAC identifies the environmental commitments that would be implemented during the construction and operational phases of the Project if the Development Consent Order is granted, and forms part of the Code of Construction Practice (Application Document 6.3, ES Appendix 2.2).
Registered Park and Garden	-	A park or garden included on Historic England’s Register of Historic Parks and Gardens. Sites are Graded I, II* or II along the same lines as listed buildings: 9% are internationally significant sites (Grade I), 27% are considered to be historically important (Grade II*) and 62% are of national or regional importance (Grade II).
Reinstatement	-	The act of restoring something to a condition agreed with the relevant authorities.
Riparian zone	-	The riparian zone or riparian area is the interface between land and a stream or river.
Road Investment Strategy	RIS	The Government’s long-term strategy to improve England’s motorways and major A roads. The first RIS (known as RIS 1) was published in 2015 and covers the period 2015-2020. A second RIS (RIS 2) was published in 2020, and covers the post-2020 period.
Royal Institute of British Architects	RIBA	-
Roll-on, Roll-off terminal	RoRo	-
Rest and Services Facility	RSF	-
Rendezvous Point	RVP	-
Safety Engineering and Standards	SES	-

Term	Abbreviation	Explanation
Scheduled Monument	SM	A 'nationally important' archaeological site or historic building, given protection against unauthorised change and included in the Schedule of Monuments kept by the Secretary of State for Culture, Media and Sport. The protection given to scheduled monuments is given under the Ancient Monuments and Archaeological Areas Act 1979.
Scheme Assessment Report	SAR	Halcrow Hyder Joint Venture's Pre-Consultation Scheme Assessment Report of the Lower Thames Crossing.
Setting	-	This is defined in the National Planning Policy Framework as 'The surroundings in which a heritage asset is experienced. Its extent is not fixed and may change as the asset and its surroundings evolve. Elements of a setting may make a positive or negative contribution to the significance of the asset, may affect the ability to appreciate that significance or may be neutral.'
Severance	-	Severance is used to refer to a change in ease of access for walkers, cyclists and horse riders due to, for example, a change in travel distance or travel time or a change in traffic levels on a route that makes it harder for walkers, cyclists and horse riders to cross. A reference to severance does not necessarily imply a route is closed to access.
Site of Special Scientific Interest	SSSI	A conservation designation denoting an area of particular ecological or geological importance.
Slip road	-	A connector road between a mainline carriageway and another road.
Smart motorway	-	Term for a range of types of actively controlled motorway, using technology to optimise use of the carriageway including the hard shoulder.
South Portal	-	The South Portal of the Project (southern tunnel entrance) would be located to the south-east of the village of Chalk. Emergency access and vehicle turn-around facilities would be provided at the tunnel portal. The tunnel portal structures would accommodate service buildings for control operations, mechanical and electrical equipment, drainage and maintenance operations.
South Portal Tunnel Services Building	-	Proposed building located at the South Portal of the Project to accommodate mechanical, electrical and drainage equipment, and to control normal and maintenance operation of the tunnels.
Southern Valley Golf Club	SVGC	Golf course located on Thong Lane, Gravesend.
Special Protection Area	SPA	A designation under EU Directive 2009/147/EC on the Conservation of Wild Birds.
Stakeholder	-	Organisations and individuals who could affect or be affected by the Project, or who otherwise have an interest in the Project.
Strategic road network	SRN	The core road network in England managed by National Highways.
Sustainable Drainage System	SuDS	A drainage system designed to reduce the potential impact of new and existing developments with respect to surface water drainage discharges.
Sustrans	-	A UK charity enabling people to travel by foot, bike or public transport for more of the journeys they make every day; their flagship project is the National Cycle Network.
Thames Chase Community Forest	-	Overlooking 40 square miles of countryside surrounding the London/Essex border, the Thames Chase Community Forest encompasses countryside areas situated in Barking and Dagenham, Brentwood, Havering and Thurrock.
Thames Chase Forest Centre	-	The Forest Centre is at the heart of the Community Forest and includes a visitor centre, café and the surrounding woodlands. The Forest Centre lies south of M25 junction 29, in Upminster.
Thames Chase Trust	-	The Thames Chase Trust is an environmental charity managing and promoting the Thames Chase Community Forest.
The tunnel	-	Proposed 4.25km (2.5 miles) road tunnel beneath the River Thames, comprising two bores, one for northbound traffic and one for southbound traffic. Cross-passages connecting each bore would be provided for emergency incident response and tunnel user evacuation. Tunnel portal structures would accommodate service buildings for control operations, mechanical and electrical equipment, drainage and maintenance operations. Emergency access and vehicle turn-around facilities would also be provided at the tunnel portals.

Term	Abbreviation	Explanation
Tilbury Viaduct	-	A new viaduct proposed as part of the Project, to carry the new A122 over the existing Tilbury Loop railway line, existing Station Road, and existing bridleway BR58 (Coal Road).
Tilbury2	-	A new port development and associated terminals, built on part of the land of the former Tilbury Power Station, from the Port of Tilbury London Limited.
Town and Country Planning Act 1990	TCPA	The Act that forms part of the land use planning regime in the UK and (among other things) establishes the legal framework in respect of applications for, and determination of, planning permissions.
Transport for London	TfL	The integrated body responsible for London's transport system.
Tunnel boring machine	TBM	Machine used to excavate tunnels with a circular cross-section.
Tunnel Service Building	TSB	Proposed building to accommodate mechanical, electrical and drainage equipment, and to control normal and maintenance operation of the tunnels.
UK Power Network	UKPN	An energy network operator. Owns and maintains the electricity cables in South East England, the East of England and London.
Vehicle Restraint System	VRS	-
Visual effect	-	Change in the appearance of the landscape as a result of development. This can be positive (ie beneficial or an improvement) or negative (ie adverse or a detraction).
Walkers, cyclists and horse riders	WCH	Walkers, cyclists and horse riders.
Water body	-	A discrete and significant element of surface water, such as a lake, reservoir, stream, river or canal; part of a stream, river or canal; a transitional water (estuary); or a stretch of coastal water, which is a defined management unit under the Water Framework Directive (2000/60/EC). Groundwater bodies are defined as distinct volumes of groundwater within an aquifer or aquifers.
Whip Planting	-	Woodland planted using 1-2 year old trees.

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