

# Rampion 2 Wind Farm Category 6: Environmental Statement Volume 4, Appendix 23.2: Traffic Generation Technical Note (tracked)

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# **Document revisions**

Revision	Date	Status/reason for issue	Author	Checked by	Approved by
Α	04/08/2023	Final for DCO Application	WSP	RED	RED
В	28/02/2024	Update for ES Addendum	WSP	RED	RED
С	25/04/2024	Update for Deadline 3	WSP	RED	RED
D	09/07/2024	Deadline 5 update to reflect individual construction access routing controls set-out within the Technical Note Construction Access Update Assessment Summary [REP3-055] and heavy goods vehicle (HGV) routing to reflect controls related to the traffic management strategies in Appendix D within the Outline Construction Traffic Management Plan [REP4- 045].	WSP	RED	RED
E	01/08/2024	Update for Deadline 6 including references to baseline traffic flows for Kent Street and Michelgrove Lane to reflect traffic surveys completed between 08 and 14 May 2024.	WSP	RED	RED



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# **Executive Summary**

This Traffic Generation Technical Note summarises the methodology used to calculate the traffic generation of the Proposed Development. It includes a summary of the inputs relating to the construction methodology and programme, as well as around routeing of vehicles. This should be read in conjunction with Chapter 23: Transport, Volume 2 of the Environmental Statement (ES) [APP-064] and Chapter 32:ES Addendum of the ES (Document Reference 6.2.23).



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# 1. Introduction

# 1.1 **Overview**

- 1.1.1 This Traffic Generation Technical Note (TGTN) outlines the traffic data generation process for the Rampion 2 (the 'Proposed Development') covering the onshore elements of the Proposed Development including the landfall, onshore cable corridor, temporary construction compounds (TCCs), the onshore substation at Oakendene and the existing National Grid substation extension at Bolney.
- 1.1.2 This TGTN covers the construction, operation and maintenance and decommissioning phases of the Proposed Development.
- 1.1.3 The impacts of traffic are covered separately, in Chapter 23: Transport, Volume 2 of the Environmental Statement (ES) [APP-064] and in Chapter 32: ES Addendum of the ES (Document Reference: 6.2.32), while measures to mitigate the impacts of construction traffic, construction workforce, operational traffic generation, abnormal loads and on public rights of way are covered respectively in the:
  - Outline Operational Travel Plan (OTP) (Document Reference: 7.5);
  - Outline Construction Traffic Management Plan (CTMP) (Document Reference: 7.6);
  - Outline Construction Workforce Travel Plan (CWTP) (Document Reference: 7.7);
  - Outline Public Rights of Way Management Plan (PRoWMP) (Document Reference: 7.8); and
  - Appendix 23.1: Abnormal Indivisible Loads Assessment of Chapter 23: Transport, Volume 2 of the ES [APP-064].

# 1.2 Context

- 1.1.4 This TGTN is an update to the version that was submitted at Deadline <u>5</u>3 [**REP<u>5</u>3-0**<u>60</u><u>2</u>**1**].
- 1.1.5 The following <u>updates were made at Deadline 5:sections have been updated</u>:
  - Section 3 Existing Transport Network:
    - Baseline Traffic flows updated for Kent Street to reflect traffic survey data contained in the Enso Energy Kent Street Battery Energy Storage System Construction Traffic Management Plan (CTMP) (Planning Application Ref: DC/24/0054).
  - Section 4 Proposed Development:
    - Updates to ensure consistency between DCO application documents on anticipated construction programme.



- Section 5 Key Construction Traffic Assumptions:
  - Updates to text on construction programme to ensure consistency between DCO application documents.
- Section 6 Construction traffic generation:
  - Table 6-8 updated to provide corrections to peak week total construction traffic flows at each access junction.
  - Table 6-9 updated to provide corrections to peak week traffic flows on Michelgrove Lane and Kent Street.
  - Provision of further details of peak periods of construction traffic flows at each access provided in Annex C.

#### 1.1.6 The following updates have been made at Deadline 6:

#### • Section 3 – Existing Transport Network:

References to baseline traffic flows for Kent Street and Michelgrove Lane have been updated to reflect traffic surveys completed between 08 and 14 May 2024.

# **1.2 Structure of this Appendix:**

- 1.2.1 The remainder of this Appendix is structured as follows:
  - Section 2: Relevant legislation, policy and other information and guidance;
  - Section 3: Existing transport network;
  - Section 4: Proposed Development;
  - Section 5: Key Construction traffic Assumptions;
  - Section 6: Construction traffic generation;
  - Section 7: Operation and Maintenance traffic generation;
  - Section 8: Decommissioning traffic generation;
  - Section 9: Glossary of terms and abbreviations; and
  - Section 10: References.



# 2. Relevant legislation, policy and other information and guidance

# 2.1 Introduction

2.1.1 This assessment has been undertaken in accordance with relevant transport related planning policy, legislation and guidance at the national, regional and local level.

# 2.2 National planning policy

2.2.1 **Table 2-1** lists the national planning policy relevant to this TGTN.

# Table 2-1 National planning policy relevant to transport

**Policy description** 

# How and where considered in this document

The Overarching National Policy Statement for Energy (EN-1) (DECC, 2011)

Paragraph 5.13.1 states "The transport of materials, goods and personnel to and from a development during all project phases can have a variety of impacts on the surrounding transport infrastructure and potentially on connecting transport networks, for example through increased congestion. Impacts may include economic, social and environmental effects. Environmental impacts may result particularly from increases in noise and emissions from road transport. Disturbance caused by traffic and abnormal loads generated during the construction phase will depend on the scale and type of the proposal."

Paragraph 5.13.2 states "The consideration and mitigation of transport impacts is an essential part of Government's wider policy objectives for sustainable development as set out in Section 2.2 of this NPS" The transport Study Area (shown in Figure 7.6.3 of the CTMP (Document Reference: 7.6) has been established through discussions with the relevant Highway Authorities. The Outline Construction Traffic Management Plan (CTMP) (Document Reference: 7.6), Outline Public **Rights of Way Management Plan** (PRoWMP) (Document Reference: 7.8), and Appendix 23.1: Abnormal Indivisible Loads assessment, Volume 4 of the ES (Document Reference: 6.4.23.1) are also submitted as part of the DCO Application. These documents deal with other impacts and measures of the Proposed Development with respect to transport.

Section 23.9 to 23.11 of **Chapter 23: Transport, Volume 2** of the ES **[APP-064]** identifies possible transport impacts and ways to mitigate them. The environmental measures to mitigate these impacts are embedded into the design.

# Paragraph 5.13.3 states "If a project is likely to have significant transport implications, the applicant's ES (see Section 4.2) should include a transport assessment, using the NATA/WebTAG methodology stipulated in Department for Transport guidance, or any successor to such methodology. Applicants should consult the Highways Agency and Highways Authorities as appropriate on the assessment and mitigation"

Paragraph 5.13.4 states "Where appropriate, the applicant should prepare a travel plan including demand management measures to mitigate transport impacts. The applicate should also provide details of proposed measures to improve access by public transport, walking and cycling, to reduce the need for parking associate with the proposal and to mitigate transport impacts."

Paragraph 5.13.5 states "If additional transport infrastructure is proposed, applicants should discuss with network providers the possibility of co-funding by Government for any third-party benefits. Guidance has been issued in England which explains the circumstances where this may be possible, although the Government cannot guarantee in advance that funding will be available for any given uncommitted scheme at any specified time"

Paragraph 5.13.11 states "The IPC [Planning Inspectorate] may attach requirements to a consent where

# How and where considered in this document

This TGTN has been prepared and submitted with the DCO Application in accordance with guidance and best practice and its scope has been discussed with the relevant Highway Authorities including National Highways.

**Chapter 23: Transport, Volume 2** of the ES **[APP-064]** identifies the highway links which may be subject to possible significant transport effects and any environmental measures to mitigate these transport effects.

Where appropriate, it is expected that construction worker movements by sustainable means will be facilitated and encouraged. However, it is recognised that the linear nature of the works, the absence of a fixed permanent work site along the Rampion 2 onshore temporary onshore cable corridor and the rural nature of much of the corridor may make it difficult to implement a standard construction travel plan. Many of the accesses are not adjacent to sustainable links such as bus stops and rail lines and the nature of the work means that staff traveling to site need to take equipment and work materials which necessitates the use of vans.

Additional transport infrastructure is limited to the provision of a number of mostly temporary construction accesses along the onshore cable corridor. Accesses will be removed and the land reinstated following completion. The **Outline CTMP** (Document Reference: 7.6) provides further details on access and is submitted as part of the DCO Application.

Proposed heavy goods vehicle (HGV) routes are identified and restrictions on HGV timing are proposed to avoid adverse effects on sensitive receptors, particularly schools as

# How and where considered in this document

there is likely to be substantial HGV traffic that:

- Control numbers of HGV movements to and from the site in a specified period during its construction and possibly on the routing of such movements;
- Make sufficient provision for HGV parking, either on the site or at dedicated facilities elsewhere, to avoid 'overspill' parking on public roads, prolonged queuing on approach roads and uncontrolled on-street HGV parking in normal operating conditions; and
- Ensure satisfactory arrangements for reasonably foreseeable abnormal disruption, in consultation with network providers and the responsible police force"

set out within the **Outline CTMP** (Document Reference: 7.6). The design of the construction works will avoid the risk of HGV parking on the surrounding highway. The transport of AILs has been subject to necessary assessment within **Appendix 23.1: Abnormal Indivisible Loads Assessment, Volume 4** of the ES (Document Reference: 6.4.23.1) and is expected to cause minimal disruption.

Overarching National Policy Statement for Energy (EN-1, March 2023 (DESNZ, 2023a)

NPS EN-1 (2023) contains the generic requirements for the assessment of impacts arising from traffic associated with design, construction and operation of renewable energy infrastructure. Requirements not previously set out in the NPS EN-1 (2011) are set out below:

Paragraph 5.14.7: The applicant should also provide details of proposed measures to improve access by active, public and shared transport to:

*"• reduce the need for parking associated with the proposal; • contribute to decarbonisation of the transport network; • reduce the need to travel; and*

Where appropriate, it is expected that movement by sustainable means will be facilitated and encouraged. Sustainable links such as bus stops and rail lines are discussed in the **Outline Construction Workforce Travel Plan (CWTP) [APP-229]** and **Outline Operational Travel Plan** [APP-227].

# How and where considered in this document

• secure behavioural change and modal shift through an offer of genuine modal choice and to mitigate transport impacts."

Paragraph 5.14.8: "The assessment should also consider any possible disruption to services and infrastructure (such as road, rail and airports)."

Paragraph 5.14.11: "Where mitigation is needed, possible demand management measures must be considered. This could include identifying opportunities to:
reduce the need to travel by consolidating trips,

 locate development in areas already accessible by active travel and public transport,

• provide opportunities for shared mobility,

 re-mode by shifting travel to a sustainable mode that is more beneficial to the network,

• retime travel outside of the known peak times,

 reroute to use parts of the network that are less busy."

Paragraph 5.14.12: "If feasible and operationally reasonable, such mitigation should be required, before considering requirements for the provision of new inland transport infrastructure to deal with remaining transport impacts. All stages of the project should support and encourage a modal shift of freight from road to more environmentally sustainable alternatives, such as rail, cargo bike, maritime and inland The objectives of the Delivery Management System are to minimise the number of construction vehicles on the road and ensure construction vehicles do not exceed any agreed restrictions, for example peak period traveling through certain towns / villages / junctions. This is included in the **Outline Construction Traffic Management Plan** (CTMP) [APP-228].

Trip consolidation and other demand management measures will be implemented are discussed in the Outline Construction Workforce Travel Plan (CWTP) [APP-229] and Outline Operational Travel Plan [APP-227].

Trip consolidation, sustainable travel and other demand management measures are discussed in the Outline Construction Workforce Travel Plan (CWTP) [APP-229] and Outline Operational Travel Plan [APP-227]. No new operational road infrastructure is proposed, however accesses and car parks are proposed as part of the Proposed Development.

waterways, as well as making appropriate provision for and infrastructure needed to support the use of alternative fuels including charging for electric vehicles."

Paragraph 5.14.13: "Regard should always be given to the needs of freight at all stages in the construction and operation of the development including the need to provide appropriate facilities for HGV drivers as appropriate."

Paragraph 5.14.16: "Applicants should consider the DfT policy guidance "Water Preferred Policy Guidelines for the movement of abnormal indivisible loads" when preparing their application." The needs of freight traffic is considered within the Outline Code of Construction Practice (CoCP) [APP-224].

How and where considered in this

document

The transport of abnormal indivisible loads (AIL) has been subject to assessment within the **Appendix 23.1: Abnormal Indivisible Load assessment**, **Volume 4** of the ES [**APP-196**] and is expected to result in minimal disruption.

National Planning Policy Framework (NPPF) (Ministry of Housing, Communities and Local Government, last updated 20 December 2023)

The NPPF is the primary source of national planning guidance in England.

Whilst the NPPF is not directly applicable to Nationally Significant Infrastructure Projects (NSIPs), it provides context to the TGTN as well as **Chapter 23: Transport, Volume 2** of the ES **[APP-064]** (Document Reference: 6.2.23).

Paragraph 115 of the NPPF states that "development should only be prevented or refused on highways grounds if there would be an unacceptable impact on highway safety, or the residual cumulative impacts on the road network would be severe."

Paragraph 117 of the NPPF states that "all developments that will generate significant amounts of movement should be required to provide a travel plan, and the application should be supported by a **Chapter 23: Transport, Volume 2** of the ES (Document Reference: 6.2.23), sets out the results of the assessment of traffic effects including highways safety (including accident assessment).

This TGTN has been developed with reference to the criteria in Paragraph 113, the opportunities for sustainable transport, access and road safety, and the need for any transport improvements.

# How and where considered in this document

transport statement or transport assessment so that the likely impacts of the proposal can be assessed."

The document sets out that the Transport Statement (TS)/TA should account for:

- the opportunities for sustainable transport modes have been taken up depending on the nature and location of the site, to reduce the need for major transport infrastructure;
- safe and suitable access to the site can be achieved for all people; and
- improvements can be undertaken within the transport network that cost effectively limit the significant impacts of the development. Development should only be prevented or refused on transport grounds where the residual cumulative impacts of development.

For understanding transport impacts, this TGTN is supported by the **Outline CTMP** (Document Reference: 7.6), **Outline CWTP** (Document Reference: 7.7), **Outline PRoWMP** (Document Reference: 7.8) and **Appendix 23.1: Abnormal Indivisible Loads assessment** of the ES (Document Reference: 6.4.23.1).

2.2.2 **Table 2-2** lists the local planning policy relevant to the assessment of the effects on transport receptors.

# Table 2-2 Local transport / planning policy relevant to transport

Policy description	Relevance to assessment
West Sussex Transport Plan 2022-36	(West Sussex County Council, 2022)
4.23-4.25 and 6.4: Walking. The policy aims to maintain the existing pedestrian provision in West Sussex, including PRoW provision, and, where possible provide new infrastructure to create new connections and routes for pedestrians particularly for leisure. More information is also included	The construction of the onshore cable has the potential to temporarily affect the Public Right of Way (PRoW) infrastructure in West Sussex. The <b>Outline PRoWMP</b> (Document Reference: 7.8) outlines all PRoW effects and environmental measures proposed.

#### **Relevance to assessment**

on PRoWs in the WSCC Rights of Way Management Plan 2018-2028.

4.26-4.29 and 6.4: Cycling. This policy aims to protect the existing cycling provision and promote cycling as a form of sustainable transport. It also identifies a requirement to construct and improve cycling infrastructure to connect local cycle networks in line with the LCWIPs.

4.33-4.39 and 6.12: Shared Transport Services. This policy proposes a range of measures to promote and improve public transport in West Sussex. Measures include the maintenance of public transport to a good standard and the provision of new infrastructure – such as bus lanes- to improve the existing provision where this is possible.

4.64-4.66 and 6.25: Freight. This policy sets out the measures which are to be used to manage the movement of freight during the plan period. The policy identifies measures to be used, including a lorry route network around West Sussex and investment into major infrastructure improvements on the A27. The construction of the onshore cable has the potential to temporarily affect local and nationally strategic cycle routes in West Sussex. A review of the local cycle routes has been undertaken within this document in **Section 3** and sets out that impacts on National Cycle Network (NCN) routes will not be significant.

The construction of the onshore cable has the potential to temporarily affect local bus routes in West Sussex. A review of local bus routes is included in **Section 3**.

The policy and HGV route network have been considered when identifying construction HGV routes associated with the Proposed Development set out in **Section 4**. The HGV access strategy avoids Findon Valley, a key route restriction within the Freight Movement and Management Plan.

Draft Horsham District Local Plan 2019-2036 (Horsham District Local Council, 2019)

Strategic policy 41 – Infrastructure Provision. This policy states that development will only be supported if local infrastructure has adequate capacity to support the development. Suitable mitigation should be proposed where local infrastructure does not have the Consideration of transport effects and requirements for environmental measures. **Chapter 23: Transport, Volume 2** of the ES (Document Reference: 6.2.23) sets out the results of the assessment of the traffic effects on local and strategic highways links.

#### **Relevance to assessment**

capacity to accommodate development.

Strategic policy 42 – Sustainable Transport. This policy sets out the conditions in which development will be supported for sustainable transport. The policy states "development will be supported if it:

Provides safe and suitable access for all vehicles, pedestrians, cyclists, horse riders, public transport and the delivery of goods. Minimises the distance people need to travel and minimises conflicts between traffic, cyclists and pedestrians.

Prioritises and provides safe and accessible walking and cycling routes and is integrated with the wider network of routes, including public rights of way and cycle paths.

Includes opportunities for sustainable transport which reduce the need for major infrastructure and cut carbon emissions. Develops innovative and adaptable approaches to public transport in the rural areas of the District. Maintains and improves the existing transport system (pedestrian, cycle, rail and road).

Is accompanied by an agreed Green Travel Plan where it is necessary to minimise a potentially significant impact of the development of the wider area, or as a result of needing to address an existing local traffic problem." The construction of the onshore cable has the potential to temporarily affect PRoW, local bus routes and cycle routes in Horsham.

The **Outline PRoWMP** (Document Reference: 7.8) outlines all PRoW effects and environmental measures proposed.

A review of the local cycle routes has been undertaken within the **Chapter 23: Transport**, **Volume 2** of the ES (Document Reference: 6.2.23) which sets out the potential effects on NCN routes.

A review of local bus routes has been undertaken within the **Chapter 23: Transport**, **Volume 2** of the ES (Document Reference: 6.2.23) which sets out the potential effects on bus routes.

Mid Sussex District Plan 2014-2031 (Mid Sussex District Council, 2018)

DP20: Securing Infrastructure. This policy requires development to be provided with necessary

Additional transport infrastructure is limited to the provision of a number of mostly temporary construction accesses along the Rampion 2 onshore temporary cable corridor. Accesses

Policy description	Relevance to assessment
infrastructure such as efficient and sustainable transport networks.	will be removed where appropriate and where agreed with landowners and the land reinstated when the Rampion 2 onshore cable construction is finished. Where accesses are not removed, they will remain in-situ, for example, the access to the onshore landfall site and onshore substation. The <b>Outline</b> <b>CTMP</b> (Document Reference: 7.6) outlines further details on access.
DP21: Transport. This policy requires developments, depending on their size or impact to prepare a Transport Statement or Transport Assessment to be submitted with the planning application. The policy also requires submission of a travel plan statement or full travel plan alongside the transport statement or transport assessment which will be submitted with the planning application.	This TGTN is provided as part of the DCO Application. The assessment presented is a link based environmental assessment and is supported by the <b>Outline CTMP</b> (Document Reference: 7.6), <b>Outline PRoWMP</b> (Document Reference: 7.8) and <b>Appendix 23.1:</b> <b>Abnormal Indivisible Load assessment</b> of the ES (Document Reference: 6.2.23.1). Outline documents were presented at PEIR stage and further discussions with relevant highways authority have been undertaken to define if there is a significant effect or not.
DP22: Rights of Way and other Recreational Routes. This policy aims to protect existing rights of way, cycle and recreational routes from any adverse effects that might come from development. It also states that where a route is likely to be affected an alternative must be provided which is equivalent in value to the route affected.	The protection of PRoWs, including recreational routes and National Trails has been included within the <b>Outline PRoWMP</b> (Document Reference: 7.8).

# Worthing Local Plan 2020 – 2036 (Worthing Borough Council, 2023)

DM15 Sustainable Transport and Active Travel. The policy sets out that Worthing Borough Council will support development which encourages use of public and sustainable transport and reduces the number of car journeys. Where development is likely to generate demand for travel or have other implications it is required to be supported by a Transport Statement or Assessment and a sustainable Chapter 23: Transport, Volume 2 of the ES (Document Reference: 6.2.23) and the Outline CTMP (Document Reference: 7.6) outline the proposed HGV access strategy and environmental measures and routes that have been applied to mitigate impacts of the construction phase of the Proposed Development.

**Relevance to assessment** 

travel plan. The policy further states that it will "support measures that promote improved accessibility, create safer roads, reduce the environmental impact of traffic movements, enhance the pedestrian environment, or facilitate highway improvements". In particular reference is made to managing the impact of HGV movements and implementing measures where this may be appropriate.

West Sussex Walking and Cycling 2016 – 2026 (West Sussex County Council, 2020a)

The West Sussex Walking and Cycling strategy is a document that sets out the aims and objectives for walking and cycling during the strategy period (2016-2026) and sets out guidance and information for developers. The **Outline PRoWMP** (Document Reference: 7.8), outlines all PRoW impacts and environmental measures proposed.

# 2.3 Other relevant information and guidance

The Strategic Road Network and the Delivery of Sustainable Development Guidance

- 2.3.1 The Department for Transport (DfT) (2022) Circular 012022 '*The Strategic Road Network and the Delivery of Sustainable Development*' outlines the methods in which the National Highways (NH) (formally National Highways) will engage with developers and communities to deliver sustainable development and consequently economic growth, whilst safeguarding the primary function and purpose of the Strategic Road Network (SRN).
- 2.3.2 Paragraph 55 outlines under 'Environmental assessments':

"The company will engage in the relevant screening or scoping process where a potential impact on the SRN is identified. Environmental assessments must be comprehensive enough to establish the likely impacts on air quality, light pollution and noise arising from traffic generated by a development, along with the impacts from any proposed works to the SRN and identify measures to mitigate these impacts. Requirements and advice for undertaking environmental assessments in respect of transport impacts can be found in the DMRB."

2.3.3 Paragraph 65 to 69 outlines access requirements relating to on-shore wind turbines:

"The promoter of a wind turbine development must identify any impacts on the operation of the SRN from the construction, operation and de-commissioning stages and identify measures to mitigate these impacts. Swept path analyses must be provided for any abnormal load deliveries to the site via the SRN.

Access to the site for construction, maintenance and de-commissioning should be obtained from the local road network. A direct connection to the SRN will only be permitted in exceptional circumstances."

2.3.4 Within the transport Study Area (outlined in Figure 7.6.3 in the Outline Construction Traffic Management Plan (CTMP) (Document Reference: 7.6), the SRN managed by NH includes the A27 and A23. The requirements of Circular 01/2022 are therefore addressed further within this TGTN.



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# 3. Existing Transport Network

# 3.1 Study Area 1 – onshore

- 3.1.1 This Section provides a description of the baseline conditions of the local and strategic roads which are proposed to be used for access to the onshore elements of the Proposed Development as well as the local PRoW, cycle routes and sustainable travel routes. **Figure 23.1**, **Volume 3** of the ES (Document Reference: 6.3.23) identifies the roads that have been included in this section.
- 3.1.2 **Table 3-1** sets out a high-level review of the Main "A" and "B" Roads included within Study Area 1 and more details on these are presented in the following section.

Type of road	Road name
A Roads	A259, A284, A27, A24, A284, A283, A281, A272, A23
B Roads	B2139, B2135, B2116, B2118

# Table 3-1 A/B roads within Study Area 1

# **Strategic Road Network**

#### A23

- 3.1.3 The A23 routes from the M23 south of Crawley to the A27 on the northern periphery of Brighton. For much of its length, the A23 is a dual carriageway subject to the national speed limit<sup>1</sup>. Within Study Area 1, the A23 has junctions with two major roads, the A272 and the A27 as follows:
  - the junction with the A272 is located east of Bolney and comprises grade separated roundabout junctions located either side of the A23 alignment which connect to the A23 with on/off slips; and
  - the junction with the A27 is located on the northern periphery of Brighton and comprises a grade separated bell junction with on/off slips which connects to a separate roundabout junction with the A23.

# A27

3.1.4 The section of the A27 that is managed by National Highways (NH) routes between Pevensey in East Sussex to Cosham, Portsmouth where the A27 becomes the M27. The A27 connects numerous coastal towns along the south coast as well as connecting the cities of Portsmouth and Brighton. Road design

<sup>&</sup>lt;sup>1</sup> 70mph for cars and motorcycles, 60mph for all other vehicles

standards vary along the A27, however, for most of its length the A27 is a dual carriageway subject to the national speed limit.

# Local Highway Network

# A24

3.1.5 The A24 routes between Worthing on the south coast and London, and routes via towns including Horsham and Leatherhead. Within Study Area 1, the A24 routes through both urban and rural settings. In rural areas the A24 is typically a dual carriageway and is subject to the national speed limit. In urban areas the A24 routes through both residential and commercial areas, and numerous residential and commercial properties front onto the road and there are a number of pedestrian crossing points.

# A272

3.1.6 Within Study Area 1, the A272 routes east/west between the A24 and the A23. The A272 intersects the A24 via a staggered crossroad and junctions with the A23 are via two grade separated roundabouts which connect to the A23 by on/off slips. The A272 is a predominantly a single carriageway rural road throughout Study Area 1. The speed limit varies between national speed limit (60mph for cars and motorcycles) and 50mph depending on local constraints. A section of the A272 through Cowfold is subject to a 30mph speed limit as the road passes through a village setting. Pedestrian footways are provided, and residential properties front onto the A272 throughout Cowfold.

# A2037

3.1.7 The A2037 routes north / south between the A283 and the A281. The road intersects with the A281 at a roundabout in the south of Henfield. The A2037 is a predominantly single lane, two-way carriageway rural through road and is subject to the national speed limit. It intersects with the A283 at a roundabout, south of Steyning. The road has limited pedestrian footways including through Henfield and Oreham Common, where some residential properties front onto the road. There is very limited pedestrian crossing points.

# A280 Long Furlong

3.1.8 The A280 Long Furlong provides a connection between the A24 at Findon and the A27 south of the village of Clapham. The A280 is a single carriageway road which is predominantly subject to the national speed limit through a rural setting. A small section of the A280 through Clapham Village is subject to a 40mph speed limit, and a signal controlled crossing is provided adjacent to the local primary school.

# A281

3.1.9 The A281 routes between Guildford and the A23 north of Brighton, the road connects multiple towns and villages along its routes including Horsham and Cowfold. Due to the length of the A281 and the numerous settlements that it

August 2024 Rampion 2 Environmental Statement. Volume 4, Appendix 23.2: Traffic Generation Technical Note passes through the road conditions vary throughout. The A281 within Study Area 1 includes a section from Cowfold via Shermanbury to the A281 junction with the B2116. The A281 through this section is a single carriageway road where the speed limit and other conditions vary depending on location.

- 3.1.10 Through Cowfold the A281 routes through the centre of the village where commercial properties front onto the road. Pedestrian footways are located on either side of the carriageway within Cowfold centre and on at least one side of the carriageway through the rest of the village. The road is subject to a 30mph speed limit. The A281 connects with the A272 at two mini roundabout junctions within Cowfold centre and a signal controlled pedestrian crossing is provided.
- 3.1.11 Through Shermanbury, the A281 is subject to a 40mph speed limit, and a pedestrian footway is provided on the eastern side of the carriageway. Residential properties/driveways front onto the A281.
- 3.1.12 Between Cowfold and Shermanbury the A281 is rural in nature, no pedestrian infrastructure is provided, and the national speed limit for a single carriageway.
- 3.1.13 The section of the A281 from Henfield to the junction with the B2117 routes through the small village of Woodmancote. The A281 is 30mph though Henfield, and then 40mph past Woodmancote before changing to a national speed for the rest of the route.

# A283

3.1.14 The A283 provides a connection between the A24 at Washington, West Sussex and the A27 at Shoreham-by-Sea. The A283 is a single carriageway which is subject to 50mph and national speed limits at various points along its route. The A283 passes predominantly through rural areas. In Steyning, the A283 is located largely in a cutting with local roads on overbridges. The A283 joins with the A27 via a grade separated roundabout and on-off slips.

# A284

- 3.1.15 The A284 routes between Littlehampton and the A29 west of the village of Houghton. The A281 exists in two sections, from Littlehampton to a junction with the A27 at Crossbush and from a junction with the A27 in Arundel to the A29.
- 3.1.16 The section of the A284 from the A259 in Littlehampton to the A27 at Crossbush is within Study Area 1. This section of the A284 passes through the village of Lyminster and the residential suburb of Wick. In Wick, the A284 routes through a residential area where streetlighting and footways are provided, and residential properties and driveways front onto the A284. The road is subject to a 30mph speed limit.
- 3.1.17 In Lyminster Village, the road is subject to a 30mph speed limit. Pedestrian footways exist throughout the village on at least one side of the carriageway and a small number of residential properties/driveways front onto the A284. North of Lyminster Village, the speed limit increases to 40mph, and a pedestrian footway continues on the western side of the carriageway.

3.1.18 The construction of the Lyminster Bypass, which is expected to be officially designated as the A284 upon completion, will be a significant development in the road infrastructure. The Lyminster Bypass will serve to reduce the volume of traffic passing through Lyminster and reduce the impacts on local receptors arising as a result.

# A259

- 3.1.19 The A259 routes along the south coast of England between Havant in Hampshire and Folkestone in Kent. Within Study Area 1, the A259 travels between a roundabout junction with Ford Lane at Climping to a roundabout junction with the B2187 at Toddington.
- 3.1.20 Between Climping and the junction with the B2187 at Littlehampton (Bridge Road roundabout), the road is a single carriageway which is subject to a 40mph speed limit west of the Ferry Road junction and the national speed limit east of the junction. A shared footway/cycleway is provided on the northern side of the carriageway.
- 3.1.21 Between Bridge Road roundabout and the junction with the A284 (Wick roundabout), the road is subject to the national speed limit and a shared cycleway/footway exists on the northern side of the carriageway between the signal controlled junction with Benjamin Grays Drive and the priority junction with New Courtwick Lane. Between Wick roundabout and the roundabout junction with the B2187 at Toddington the speed limit is reduced to 40mph, and pedestrian footways exist on both sides of the carriageway. Residential properties front onto the carriageway through this section.

# B2116

3.1.22 The B2116 routes between the A281 north of Henfield to the B2118 at Aldbourne. The B2116 is a single carriageway which predominantly passes through a rural area. The speed limit varies between 30mph, 40mph and the national speed limit along the B2118 depending on local constraints. Throughout Aldbourne, the road is subject to a 30mph speed limit and pedestrian footways are provided and residential properties/driveways front onto the road.

# B2117

3.1.23 The B2117 is a single carriageway road which passes between the A281 and Hurstpierpoint village. Within the short section of the road included in Study Area 1, the road joins the B2118 at a priority junction and the A23 at two priority junctions which serve as southbound on and northbound off slips to the grade separated A23. The B2117 is rural in nature between these junctions and is subject to the national speed limit.

# B2118

3.1.24 The B2118 routes between the B2117 at Muddleswood and the A23 north of Sayers Common. The B2118 is a single carriageway and is subject to the national speed limit for much of its route.

- 3.1.25 Through the village of Aldbourne, the road is subject to a 40mph speed limit. A pedestrian footway is provided on the eastern side of the carriageway and residential properties/driveways front onto the road.
- 3.1.26 Through the village of Sayers Common, the B2118 is subject to a 30mph speed limit and pedestrian footways are provided on both sides of the carriageway. Residential properties/driveways front onto the B2118 and there is a miniroundabout junction with Reeds Lane in the centre of the village.

#### B2135

3.1.27 The B2135 is a rural B-road serving the village of Partridge Green in Sussex. It is subject to the national speed limit for most of its route. It starts on the A283 at the northern end of the Steyning bypass. It heads north and, although quite wide the route is windy before straightening out, before entering the small village of Ashurst. Through the village of Ashurst the road is subject to a 30mph speed limit. The road then heads into Partridge Green (also 30mph speed limit) where it meets the B2116, and continues through the village, after which it turns north-west towards the A24.

# B2139

3.1.28 The B2139 is a rural B-road which runs through Houghton, Amberly and Storrington in West Sussex. Much of the route is subject to the national speed limit, although Houghton and Storrington have a 30mph limit and Amberly is subject to a 40mph speed limit. The B2139 begins at Whiteways Lodge Roundabout with the A29 and the A284, and then runs northeast until Storrington, where it meets Pulborough Road (A283). The road is crossed by no other major roads, only residential streets when routing through villages. It is also the only access to Amberly Train Station.

# Ferry Road

3.1.29 Ferry Road is a single carriageway road which routes between the A259 and the River Arun in Littlehampton. From a priority junction with the A259, the road routes through a rural area where a national speed limit applies, and narrow pedestrian footway is provided on the northern side. The road provides access to the Marina, Mobile Home Park and some other industrial buildings. Ferry Road is also the National Cycle Network Route 2 (NCN 2) providing access to Littlehampton station via the Littlehampton Harbour Bridge.

# Ford Road

3.1.30 Ford Road is a single carriageway road which routes between the A27 in Arundel and Church Lane in Climping. From a roundabout junction with the A27 to the edge of Arundel, the road passes through a residential area where a 30mph speed limit applies and pedestrian footways are provided. South of Arundel the road is rural in nature and the national speed limit applies. Adjacent to Ford station, Ford Road crosses a railway line at a level crossing. North of the level crossing a 40mph speed limit is applied to Ford Road which continues for its remaining route to Church Lane in Climping. Between Ford Station and Climping a pedestrian footway exists on the western side of the carriageway.

# Church Lane

3.1.31 Church Lane is a single carriageway road which routes between Ford Road in Climping to a roundabout junction with the A259 south of Climping. The road is subject to a 40mph speed limit, and a pedestrian footway is provided on the eastern side of the carriageway. A small number of residential properties front onto Church Lane in Climping.

# Water Lane

3.1.32 Water Lane is single carriageway rural road which routes between the A283 and Hole Street in Winston. Water Lane is subject to the national speed limit between the junction with the A283 and the periphery of Winston Village. In Winston Village, Water Lane is subject to a 40mph speed limit, and a pedestrian footway is provided on the western side of the carriageway.

# Kent Street

3.1.33 Kent Street is a single carriageway rural road which passes between the A272 and Wineham Lane and is subject to the national speed limit. There are no pedestrian footways on this rural road.

# Wineham Lane

3.1.34 Wineham Lane is a single carriageway rural road which connects the village of Wineham to the A272 to the north and the B2116 to the south. Wineham Lane is subject to the national speed limit for all sections outside Wineham. Throughout Wineham, it is subject to a 40mph speed limit and residential/rural properties and driveways front onto the road.

# Michelgrove Lane

3.1.35 Michelgrove Lane is a single carriageway rural road which provides access to a few residential properties. Michelgrove Lane is subject to the national speed limit, albeit this would be difficult to achieve given the nature of the road.

# **Baseline traffic flows**

- 3.1.36 It has been agreed with WSCC highways officers that baseline traffic flows can be derived from existing traffic counts, most of which are taken from either permanent count locations maintained by WSCC/DfT or one-off counts within the WSCC (2020b) online traffic count database. For most locations, this has resulted in the use of data from 2019.
- 3.1.37 Following this approach resulted in a lack of traffic data for one specific location (Ferry Road – Highways Link 1) and also included data from pre-2010 for four other locations - Crossbush Lane (Highways Link 10), A280 Long Furlong (Highways Link 15), A283 East of Washington (Highways Link 17) and B2188 Sayers Common (Highways Link 29). The absence of current traffic data for these locations made it difficult to determine the baseline conditions. Therefore the assessment was informed by new traffic counts undertaken in mid-2022 at these five locations and as such were available for use in this TGTN.

- 3.1.38 In locations where the available traffic data is older than 2022, it was agreed with WSCC that no additional traffic counts were required to be undertaken as the counts from 2017-2019 were considered to still be representative, given the low level of additional traffic forecast in comparison to existing flows on the roads as indicated by the previous counts.
- 3.1.39 In agreement with WSCC, growth rates have been derived from the DfT's TEMPro 7.2. Growth rates for HGVs have been derived from the DfT (2020) National Traffic Statistics. A base year of 2021 has been used to growth up the available data for the baseline traffic counts.
- 3.1.40 Growth rates from TEMPro have been based on two areas: Arun for the south west sections (code, E41000245) and Horsham for the remainder of Study Area 1 (code E41000248).
- 3.1.41 The TEMPro growth rates are as follows:
  - 2012 2021 Arun 1.1387 Horsham 1.1468;
  - 2013 2021 Arun 1.1232 Horsham 1.1292;
  - 2017 2021 Arun 1.0607 Horsham 1.0608;
  - 2018 2021 Arun 1.0454 Horsham 1.0454; and
  - 2019 2021 Arun 1.0305 Horsham 1.0306.
- 3.1.42 HGV growth has been based on the DfT (2021) publication *'TRA2501c Road traffic (vehicle miles) by vehicle type in Great Britain'*. Table TRA2501c presents national data of the yearly change in vehicle traffic for total vehicles, car, light commercial vehicles and HGVs.
- 3.1.43 Based on Table TRA2501c, annual growth factors for HGVs have been derived as follows:
  - the changes in HGV traffic flows between 2019 (last reliable year of data due to the COVID-19 pandemic) and the base year of 2021 has been calculated;
  - the growth factor from 2018 to 2019 was 0.38%;
  - estimated growth between 2019 and 2021 is assumed as 0.38% per annum, or 0.76% over the two years; and
  - the growth for 2019 2021 (0.76% has been added to the growth from the historic count year to 2019 to provide for a growth from historic count year to 2021).
- 3.1.44 It should be noted the traffic count for A283 (East of A24) is dated 2005. As TEMPro does not extend as far back as 2005, an alternative method based on the DfT statistics has been used as discussed and agreed with WSCC.
- 3.1.45 The calculations above presented the following growth rates for HGVs:
  - 2005 2021 0.9755;
  - 2012 2021 1.0778;
  - 2013 2021 1.10180;

- 2017 2021 1.0270;
- 2018 2021 1.0160; and
- 2019 2021 1.00750.
- 3.1.46 For locations where total vehicle traffic data was extracted from existing counts, but where there were no HGV breakdowns in these counts, an HGV percentage was required to develop an HGV traffic flow at these locations. There were three locations where this was required;
  - Highways Link 10 Crossbush Lane;
  - Highways Link 17 A283 East of A24; and
  - Highways Link 29 B2188, Sayers Common.
- 3.1.47 At all three of these locations, the historic traffic data only present a breakdown of total vehicles. To estimate a likely HGV percentage on these highways links, reference has been made to adjacent historic traffic counts as follows:
  - Highways Link 10 Crossbush Lane 2% HGVs based on Highways Link 8 data;
  - Highways Link 17 A283 East of A24 3.4% HGVs based on Highways Link 16 data; and
  - Highways Link 29 B2188, Sayers Common 4.7% HGVs based on Highways Link 32 data.
- 3.1.48 **Table 3-2** sets out the average annual weekday flow (AADF) for the date of survey and the baseline (2021). Figure 32.2 of **Chapter 32: ES Addendum** of the ES (Document Reference: 6.2.32) shows the location of each of these links in relation to their identified receptor.

Highways Link	Historic Traffic Data			2021 Base		
	Total Vehicles	HGVs	Year of Data	Total Vehicles	HGVs	HGV%
1	1925	314	2022	1925	314	16.3%
2	9859	1106	2019	10458	1135	10.9%
3	6025	253	2019	6209	255	4.1%
4	23618	1302	2019	24338	1312	5.4%
5	22400	857	2019	23083	863	3.7%
6	13248	551	2019	13652	555	4.1%

# Table 3-2 2021 baseline traffic data (AADF) – Study Area 1

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Highways Link	Historic Traffic Data				2021 Base		
	Total Vehicles	HGVs	Year of Data	Total Vehicles	HGVs	HGV%	
7	13546	692	2018	13959	698	5.0%	
8*	619	12	2019	647	12	1.9%	
9	32734	1613	2013	33732	1625	4.8%	
10*	736	15	2019	827	16	2.0%	
11	31936	1757	2019	32910	1770	5.4%	
12	22776	923	2019	23473	930	4.0%	
13	30777	1012	2018	31719	1020	3.2%	
14	25731	627	2017	26899	637	2.4%	
15	16300	949	2019	17291	975	5.6%	
16	18580	3653	2022	18580	3653	19.7%	
17	21977	750	2005	22649	755	3.3%	
18	5001	170	2019	5861	166	2.8%	
19	11430	2326	2022	11430	2326	20.3%	
20	3444	105	2019	3550	106	3.0%	
21	20485	585	2019	21112	589	2.8%	
22	35481	1636	2019	36567	1648	4.5%	
23	6374	362	2018	6569	364	5.5%	
24	7739	341	2019	8090	346	4.3%	
25	6081	141	2019	6267	142	2.3%	
26	22389	991	2019	23074	998	4.3%	
27	16904	745	2019	17421	751	4.3%	

Highways Link	Historic Traffic Data			2021 Base		
	Total Vehicles	HGVs	Year of Data	Total Vehicles	HGVs	HGV%
28	853	16	2019	879	16	1.8%
29	16889	724	2019	17406	729	4.2%
30	71894	4024	2012	74094	4054	5.5%
31	6227	293	2019	7141	315	4.4%
32	7356	1497	2022	7356	1497	20.4%
33	3147	149	2019	3243	150	4.6%
34	78611	3118	2019	81016	3141	3.9%
35	65068	2421	2019	67059	2439	3.6%

\*Highway Link 8 and 10 will not be used by construction traffic associated with the Proposed Development.

3.1.49 For locations where total vehicle data was extracted from existing counts undertaken in 2022, it has been assumed that traffic levels have remained unchanged from 2021. The growth rate between 2021 and 2022 is negligible, and in 2021 traffic flows were also still being affected by COVID-19 pandemic. Consequently the 2022 survey results for the highway links in **Table 3-3** were also assumed to be a reasonable proxy for 2021 baseline in **Table 3-2**.

3.1.50 **Table 3-3** sets out the Annual Average Traffic Flows (AATF) for the locations that were surveyed in 2022 since the original PEIR was published.

# Table 3-3 Baseline data – 2022 Traffic survey

Highways Link	Light Vehicles (LVs)	Heavy Goods Vehicles (HGVs)	Total Vehicles
1 – Ferry Road	1611	314	1925
15 – A280 Long Furlong	14927	3653	18580
17 – A283 East of the A24	9104	2326	11430
29 – B2188 Sayers Common	5859	1497	7356

3.1.51 The following baseline traffic flows have been included in **Table 3-4** below for the new receptor locations. Figure 32.2 of **Chapter 32: ES Addendum** of the ES (Document Reference: 6.2.32) shows the location of each of these links in relation to their identified receptor. <u>This includes traffic survey data collected in May 2024 on Michelgrove Lane (Receptor P) and Kent Street (Receptor U).</u>

Highways Link		Historical Traffic Data			2021 Base		
		Total Vehicles	HGVs	Year of Data	Total Vehicles	HGVs	% HGVs
A	B2139, Coolham Road	8918	422	2012	10227	454	4.4%
В	A272, West Chiltington Lane, Pound Lane, Shipley Road	8918	422	2012	10227	454	4.4%
С	A272, Cowfold Road	16904	745	2019	17421	751	4.3%
D	B2135, Steyning Road, East of Park Lane	4525	20	2017	4800	21	0.4%
E	A272, Bolney Road, East of A281, North of Oakfield Road	19786	668	2023	N/A	N/A	N/A
F	A272, Cowfold	16889	724	2019	17406	729	4.2%

#### Table 3-4 Baseline traffic data for the new receptors (AADF) (Total peak week)



Highways Link		Historical Traffic Data			2021 Base		
		Total Vehicles	HGVs	Year of Data	Total Vehicles	HGVs	% HGVs
	Road West of the A23						
G	A281, North of Woodside Close	6081	141	2019	6267	142	2.3%
н	B2135 / B2116 High Street, Partridge Green	6374	362	2019	6569	364	5.5%
ı	A281, Brighton Road, North of Partridge Green Road	7739	341	2018	8090	346	4.3%
J	Wineham Lane	853	16	2019	879	16	1.8%
к	B2118, East of B2116 Henfield Road	3147	149	2019	3243	150	4.6%
L	B2135, North of Spithandle Lane	3444	105	2019	3550	106	3.0%
М	A281, High Steet, Henfield	7739	341	2018	8090	346	4.3%



Highways Link		Historical Traffic Data			2021 Base		
		Total Vehicles	HGVs	Year of Data	Total Vehicles	HGVs	% HGVs
N	A281, Brighton Road	4963	72	2023	N/A	N/A	N/A
0	A283 Storrington Road, Northeast of Sullington Lane	21977	750	2019	22649	755	3.3%
Ρ	Michelgrove Lane	<u>377</u> 369	<u>27</u> 24	2024	N/A	N/A	N/A
Q	A284, Lyminster Road	13546	692	2019	13959	698	5.0%
R	Church Lane, North of the A259	9859	1106	2017	10458	1135	10.9%
S	Ford Road, Station Road	6025	253	2019	6209	255	4.1%
т	Ford Road	6025	253	2019	6209	255	4.1%
U	Kent Street	<del>338<u>371</u></del>	<u>77</u> 80	2024	N/A	N/A	N/A

# 3.2 Study Area 2 – onshore impacts of offshore works

3.2.1 This section provides a description of the baseline conditions of the local and strategic roads which are proposed to be used for access to the onshore elements of the offshore operation and maintenance phase (access to Port of Newhaven) of the Proposed Development. Figure 23.6, Volume 3 of the ES (Document Reference: 6.3.23) identifies the roads that have been included in this section.

3.2.2 **Table 3-5** sets out a high-level review of the main "A" and "B" Roads included within Study Area 2 and more details on these are presented in the following section.

Type of Road	Road Name
A Roads	A27, A26, A259
B Roads	B2109

# Table 3-5 A/B Roads within Study Area 2

# Strategic Road Network

A27

3.2.3 The section of the A27 that is managed by National Highways (NH) routes between Pevensey in East Sussex to Cosham, Portsmouth where the A27 becomes the M27. The A27 connects numerous coastal towns along the south coast as well as connecting the cities of Portsmouth and Brighton. Road design standards vary along the A27, however, for most of its length the A27 is a dual carriageway subject to the national speed limit. Within Study Area 2, the junction with the A26 is located at Beddingham.

# Local Highway Network

# Beach Road / Clifton Road / Railway Road

3.2.4 Beach Road / Clifton Road / Railway Road is a two lane single carriageway urban road which connects the East Quay of Newhaven Port to the A26/B2109. The road is subject to a 30mph speed limit. In the southern section (Beach Road) the route is industrial in nature but passes through residential areas on the Clifton Road and Railway Road section. The route has footways on both sides and is provided with streetlights.

# B2109

3.2.5 The B2109 is a two-lane single carriageway that runs from the A26 south to join the A259, then parallel to the A259, and then south from the A259 west of the overpass near Newhaven Town rail station. In Study Area 2, the B2109 runs between the two junctions at either side of the A259 overpass and is provided with footways, pedestrian crossings (under signal control) and streetlights. The B2109 is subject to a 30mph speed limit. The B2109 also has an at grade signalled rail level crossing to the west of the junction with Railway Road.

### A259

- 3.2.6 The A259 routes along the south coast of England between Havant in Hampshire and Folkestone in Kent. Within Study Area 2, the A259 routes Newhaven Town Centre and a junction with McKinley Way.
- 3.2.7 In Study Area 2, the A259 is a two lane single carriageway which for the most part is a flyover between McKinley Way and Newhaven Town Centre. The A259 is subject to a 30mph speed limit and has footways either side of road apart from the flyover section. The A259 also has streetlights and west of the flyover section has a signal-controlled crossing of the River Ouse to accommodate the swing bridge operation.

## A26

- 3.2.8 The A26 is a two lane single carriageway in Study Area 2 that links Newhaven to Kent and is a primary route in the south east of England.
- 3.2.9 In Study Area 2, the A26 links to the B2109/A259 in Newhaven and routes north to a roundabout junction with the A27 at Beddingham. The road is subject to the national speed limit (NSL) outside of settlements but reduces to 40mph in South Heighton and 30mph in Newhaven. The A26 has footways and streetlights in the major settlements but is not provided with footways in the rural sections.

### McKinley Way (Newhaven Port New Access Road)

3.2.10 McKinley Way is a 1.4km two lane single carriageway which runs from a roundabout junction with the A259, via a new intermediate roundabout, to a new roundabout providing access to Newhaven East Quay. The road has footways as well as a segregated cycle track, and the southern end of the road includes a bridge spanning the Newhaven to Seaford railway line and Mill Creek. McKinley Way is subject to a 30mph speed limit.

## **Baseline traffic flows**

- 3.2.11 The approach to the collation of baseline traffic for Study Area 2 is the same as Study Area 1 and historic traffic data has been used, derived from the DfT traffic data.
- 3.2.12 Growth rates for total vehicles have been derived from the DfT's TEMPro 7.2. A base year of 2021 has been used to growth up to for the baseline traffic counts. Growth rates from TEMPro have been based on TEMPro rates for Lewes 008/009 within the database which covers the town of Newhaven. The TEMPro growth rates are as follows:
  - 2018 2021 Newhaven 1.93.
- 3.2.13 HGV growth has been based on the DfT (2021) publication *'TRA2501c Road traffic (vehicle miles) by vehicle type in Great Britain'*. Table TRA2501c presents national data on the yearly change in vehicle traffic for total vehicles, car, light commercial vehicles and HGVs.

- 3.2.14 Based on Table TRA2501c, annual growth factors for HGVs have been derived as follows:
  - the change in HGV traffic flows between 2019 (last reliable year of data due to the COVID-19 pandemic) and the base year of 2021 has been calculated;
  - the growth factor for from 2018 to 2019 was 0.38%;
  - estimated growth between 2019 and 2021 is assumed as 0.38% per annum, or 0.76% over the two years; and
  - the growth for 2019 2021 (0.76% has been added to the growth from the historic count year to 2019 to provide for a growth from historic count year to 2021).
- 3.2.15 The calculations above presented the following growth rates for HGVs:
  - 2019 2021 1.00750
- 3.2.16 Due to the Newhaven Port New Access Road not yet having been opened to traffic at the time of 2019 data collection (factored up to 2021), an assumption has been made for the percentage transfer of existing traffic to Newhaven Port East Quay which currently routes along Railway Road / Clifton Road and would move onto the New Access Road. For completion of a robust assessment, it is assumed that 80% of the currently average daily traffic on the existing Railway Road / Clifton Road not will reassign to the New Port Access Road.
- 3.2.17 **Table 3-6** sets out the AADF for 2019 and the current baseline (2021). 2021 base traffic includes for the transfer of 80% of the traffic from the existing access to Newhaven Port corridor; as described above.

Highways Link	Historic Traffic Data			2021 Base		
LIIK	Total Vehicles	HGVs	Year of Data	Total Vehicles	HGVs	HGV%
1	N/A	N/A	N/A	2829	233	8.2%
2	16873	1267	2019	17346	1277	7.4%
3	16873	1267	2019	17346	1277	7.4%
4	36734	1921	2019	37781	1935	5.1%
5	26348	1095	2019	27106	1103	4.1%

#### Table 3-6 2021 baseline traffic data (AADF) – Study Area 2



## **Future baseline**

Study Area 1 - Onshore works

Traffic growth

## Construction impacts

- 3.2.18 To understand the transport effects during the construction phase, the traffic generation calculations were interrogated to identify a single peak week across the study area for all receptors on highways links, i.e. the week during the construction programme when the number of vehicle trips being generated is forecast to be highest.
- 3.2.19 It has been agreed with WSCC and NH that growth rates can be derived from TEMPro and there is no requirement to include committed development or Local Plan allocations as the growth within the TEMPro estimates will account for traffic growth related to future development in the area through Local Plan allocations.
- 3.2.20 Furthermore, the Department for Transport (DfT) has confirmed that the A27 Arundel Bypass scheme will be deferred to Road Investment Strategy (RIS3 covering 2025 to 2030) to allow time for stakeholders' views to be fully considered. Therefore, as the A27 Arundel Bypass is not yet committed, no cumulative effects assessment has been included with the Proposed Development.
- 3.2.21 The growth rates from TEMPro are as follows:
  - 2021 2025 Arun 1.066 / Horsham 1.069;
  - 2021 2026 Arun 1.0746 / Horsham 1.0788;
  - 2021 2027 Arun 1.0831 / Horsham 1.0868; and
  - 2021 2028 Arun 1.092 / Horsham 1.095.
- 3.2.22 The HGV growth rates derived from the DfT Transport Statistics are as follows:
  - 2021 2025 1.062;
  - 2021 2026 1.075;
  - 2021 2027 1.093; and
  - 2021 2028 1.109.
- 3.2.23 The following growth rates have been applied to the new base survey flows for the new receptors:
  - 2023 2025 Horsham 1.022
  - 2023 2027 Horsham 1.041
  - 2024 2026 Horsham 1.021
  - \_\_\_2024 2028 Horsham 1.030

- 3.2.24 The following HGV growth rates have been applied to the base survey flows for the new receptor:
  - 2023 2025 1.031;
  - 2023 2026 1.0465; and
  - 2023 2027 1.062.
  - 2024 2026 1.020; and
  - 2024 2028 1.041.
- 3.2.25 The resultant future year traffic generation is set out in **Table 2-6** and **Table 2-7** of **Chapter 32: ES Addendum** of the ES (Document Reference: 6.2.32).

#### Decommissioning impacts

- 3.2.26 The temporal scope of the assessment of the decommissioning phase is based on the peak period of traffic during the onshore substation removal. It is currently predicted that the onshore substation will be decommissioned around 30 years from the Proposed Development commission. The onshore substation is proposed to be built in years two to four of the construction programme. Based on the assessments set out on this TGTN, year five will be 2030 and 30 years from then will be 2060.
- 3.2.27 It has been agreed with WSCC and NH that growth rates can be derived from TEMPro and there is no requirement to include committed development or Local Plan allocations as the growth within the TEMPro estimates will account for traffic growth related to future development in the area through Local Plan allocations. For the decommissioning phase impacts assessment, TEMPro rates have been extracted for Horsham.
- 3.2.28 TEMPro only provide traffic estimates to 2051 as this is the latest year for which a reliable traffic growth estimate can be made. Therefore, 2051 is used for the assessment for the decommissioning phase in this TGTN.
- 3.2.29 The growth rates from TEMPro are as follows:
  - 2021 2051 Horsham 1.22.
- 3.2.30 The HGV growth rates derived from the DfT Transport Statistics based on the construction phase HGV growth methodology will result in HGV growth of 1.55% per year which over 30 years to 2051 will result an increase in HGVs of 46.50%. Although this almost doubling of HGVs in 30 years may not be reached (in recent years HGV growth has slowed) it has been used for calculations in this TGTN for consistency with other assessments.
  - 2021 2051 1.4650.
- 3.2.31 The resultant future year traffic generation is set out in **Table 2-6** and **Table 2-7** of **Chapter 32: ES Addendum** of the ES (Document Reference: 6.2.32).

#### Future highways network changes (construction and decommissioning phases)

- 3.2.32 During initial consultation, WSCC confirmed that there are no highways schemes that will need to be considered in the assessment.
- The A27 Arundel Bypass is being promoted by NH but is not a committed 3.2.33 development. With no direct impacts of onshore elements of the Proposed Development across the proposed route of the A27 Arundel Bypass, the only effects of the onshore elements of the Proposed Development on the bypass will be the additional traffic generated during the construction phase. Highways Link 9 (As shown in Figure 23.20, Volume 3 of the ES (Document Reference: 6.3.23) has been selected to provide NH with an indication of the peak construction traffic on the A27 which will switch to an open A27 Arundel Bypass. The Department for Transport has confirmed that the A27 Arundel Bypass scheme will be deferred to Road Investment Strategy (RIS3 (covering 2025 to 2030) to allow time for stakeholders' views to be fully considered. Therefore, as the A27 Arundel Bypass is not yet committed, it is not included within the cumulative effects assessment in Chapter 23: Transport, Volume 2 of the ES [APP-064] or this TGTN, since it is not considered that the A27 Arundel Bypass would either be open or past its peak point of construction by the time that construction of the Proposed Development is complete.
- The Lyminster Bypass construction works commenced on 24 October 2022 and 3.2.34 the scheme completion is currently forecast for Autumn 2024. The bypass will link to the existing A284 from a point approximately 600m south of the A27 at Crossbush and join the privately developed section of the same proposed bypass at Toddington Nurseries. The proposed bypass will be a 7.3m wide single dual carriageway with verge on one side and a shared footway/cycleway facility on the other. The footway/cycleway will connect to existing and proposed facilities along the southern half of the bypass and A259. The Lyminster Bypass is due to be completed ahead of the peak of any Rampion 2 construction works. In order to present a robust scenario, the Rampion 2 traffic modelling has assumed that no Rampion 2 construction traffic would use the Lyminster Bypass and would instead use the existing road network; in practice, the presence of the Lyminster Bypass would relieve pressure on the existing road network. The cumulative highways assessment therefore does not include the Lyminster Bypass, so as to provide a robust assessment.
- 3.2.35 West Sussex County Council (WSCC) is currently developing a major road enhancement scheme for the corridor of the A259 between Bognor Regis and Littlehampton in Arun District. The location of the scheme is between and including the B2132 Yapton Road (Comet Corner) junction and the B2187 Bridge Road (Tesco) junction. Construction commencement, subject to Full Business Case approval, is predicted to be the middle of 2025. As the scheme does not yet have a full Business Case it has not been included in the cumulative effects assessment in **Chapter 23: Transport, Volume 2** of the ES **[APP-064]** or this TGTN, however a sensitivity test could be undertaken if the A259 scheme were to get full business case approval.

## Study Area 2 – Onshore impacts of offshore works

## Traffic growth

- 3.2.36 Onshore impacts of the offshore operation and maintenance phase are proposed to start in the first year of commission. With the construction phase ending in 2029, a future year of assessment of 2030 for this operation and maintenance phase has been assumed for assessment in this TGTN.
- 3.2.37 It has been agreed with WSCC and NH that growth rates can be derived from TEMPro and there is no requirement to include committed development or Local Plan allocations as the growth within the TEMPro estimates will account for traffic growth related to future development in the area and it is proposed to continue that approach for Study Area 2. The growth rates are based on the Newhaven (TEMPro data set Lewes 008/009) location in TEMPro as that is where the candidate port is located.
- 3.2.38 The growth rates from TEMPro are as follows:
  - 2021 2030 1.0746.
- 3.2.39 The HGV growth rates derived from the DfT Transport Statistics are as follows:
  - 2021 2030 1.1395.
- 3.2.40 The resultant future year traffic generation is set out in **Table 2-6** and **Table 2-7** of **Chapter 32: ES Addendum** of the ES (Document Reference: 6.2.32).

## 4. Proposed Development

## 4.1 The onshore elements of the Proposed Development

4.1.1 The onshore elements of the Proposed Development will include the construction of a temporary onshore cable corridor from landfall at Climping to a new onshore substation at Oakendene near Cowfold, that will connect to the existing National Grid Bolney substation, Mid Sussex, via buried onshore cables.

Onshore cable corridor

- 4.1.2 The onshore cable corridor will cover an approximate distance of 38.8km and will be buried along its entire length. For construction purposes, a nominal working width up to 40m will be required for the majority of the onshore cable corridor, with some larger working areas required at key areas, while constraints may restrict the working width in other areas.
- 4.1.3 The onshore cable corridor commences at landfall in Climping, then crosses under the A259, rail network and River Arun via trenchless crossing before also crossing by trenchless method under the A27 near Hammerpot. From here, the onshore cable corridor will head northeast across the South Downs to Washington, West Sussex and under the A24 and A283 via a trenchless crossing. The onshore cable corridor continues northeast through a rural area and to the new onshore substation at Oakendene, that will connect to the existing National Grid Bolney substation via buried onshore cables. Additional infrastructure at the existing Bolney Substation is required to connect the Proposed Development to the National Grid electrical network.
- 4.1.4 The onshore cable corridor has numerous crossings of roads including the A259, A284, A27, A24, A283, Chanctonbury Ring Road, Spithandle Lane, B2135, B2116, A281, King's Lane, Kent Street, and Wineham Lane. There is also one crossing of the River Arun and two crossings of the National Rail network west of Littlehampton and Wick. Installation of the onshore cable will utilise trenchless crossing techniques (e.g. HDD) to avoid major roads at specific locations, operating railway lines and watercourses.
- 4.1.5 For the purpose of this assessment, the entire onshore cable corridor has been split into three sections which are described below and presented in Figure 23.2, Volume 3 of Chapter 23: Transport, Volume 2 of the ES [APP-064]. Each of the sections contains a temporary construction compound (TCC) plus a number of construction accesses, and therefore enables the study area to be studied in greater detail.
  - Section 1 runs north from landfall, across the A259, the River Arun and the two railway lines before crossing the A27 near the edge of the South Downs at Hammerpot. This section is rural but runs along the edge of the settlements of Littlehampton, Wick, Lyminster and Crossbush;
  - Section 2 runs northeast from the Section 1 boundary to a crossing of the A24 near Washington, West Sussex. Between the A27 and A24, the onshore cable

corridor has minimal interaction with the local highways network and due to the nature of access options, will make use of a continuous temporary construction haul road; and

- Section 3 runs from the Section 2 boundary along the A283 corridor before turning northeast to Partridge Green and further east to Bolney. This section is flat and rural in character but with more crossings of roads.
- 4.1.6 The three sections of the onshore cable corridor route associated with each of the three TCC's assessed are presented in **Figure 23.2.1, Annex B**.
- 4.1.7 The onshore cable corridor was divided into three sections to define the number of work fronts required. The key onshore cable construction activities occur over a four-year period. It is assumed that the construction crews will initially work on the southernmost section (Section 1) of the onshore cable corridor, moving on to Section 2 and then Section 3 as set out in Figure 23.2.1, Annex B. The sections are in turn broken down into smaller sections defined by access points and crossings.
- 4.1.8 Each of these sections is defined by the presence of a temporary construction compound, plus a number of construction accesses.
- 4.1.9 Temporary construction compounds (TCC's) will be required to store materials and plant as well as form a base for traffic working at the various site locations. The onshore part of the proposed DCO Order Limits allows space for five TCC locations as set out in Figure 23.3a-c, Volume 3 of Chapter 23: Transport, Volume 2 of the ES [APP-064]. The TCCs used in the traffic calculations used in this assessment are as follows:
  - TCC 1 Climping compound: Site Access A-5, serving Section 1;
  - TCC 2 Washington compound: Site Access A39, serving Section 2;
  - TCC 3 Oakendene west compound: Site Access A-62, serving Section 3;
  - Construction compound 4 Oakendene substation compound: Site Access A-63, serving Section 3; and
  - Construction compound 5 existing National Grid Bolney substation compound – Site Access A-68, serving Section 3
- 4.1.10 **Figure 23.4a-c, Volume 3** of the ES (Document Reference: 6.3.23) sets out the onshore cable corridor sections and the TCCs.
- 4.1.11 The operational lifetime of the Proposed Development is expected to be around 30 years and for the purposes of this TGTN at year 30 the Proposed Development will reach the decommissioning phase.
- 4.1.12 Taking place after construction and commissioning of the Proposed Development, the operation and maintenance phase activities can be divided into three main categories:
  - scheduled maintenance;
  - unscheduled maintenance; and
  - special maintenance in the event of major equipment breakdown and repairs.

#### Construction phase working hours

- 4.1.13 Core working hours for construction of the onshore components will be 08:00 to 18:00 Monday to Friday, and 08:00 to 13:00 on Saturdays, apart from specific circumstances that are set out in the Outline Code of Construction Practice (COCP) [PEPD-033], where extended and continuous periods of construction are required.
- 4.1.14 Prior to and following the core working hours Monday to Friday, a 'shoulder hour' for mobilisation and shut down will be applied (07:00 to 08:00 and 18:00 to 19:00). The activities permitted during the shoulder hours include staff arrivals and departures, briefings and toolbox talks, deliveries to site and unloading, and activities including site and safety inspections and plant maintenance. Such activities shall not include use of heavy plant or activity resulting in impacts, ground breaking or earthworks.
- 4.1.15 The requirement for deliveries during shoulder hours and potential restrictions to avoid sensitive receptors (where specifically justified or required) will be determined during detailed design once the construction programme has been developed further. Such restrictions can be included within detailed construction traffic management strategies, which would need to be approved West Sussex County Council and the relevant Local Planning Authority in accordance with Requirement 24 of the **Draft Development Consent Order [REP4-004]**.
- 4.1.16 No activity outside these hours including Sundays, public holidays or bank holidays will take place apart from under the following circumstances:
  - where continuous periods (up to 24 hours, 7 days per week) of construction work are required for HDD<sup>2</sup>;
  - for other works requiring extended working hours such as concrete pouring which will require the relevant planning authority to be notified at least 72 hours in advance;
  - for the delivery of abnormal loads to the connection works, which may cause congestion on the local road network, and will require the relevant highway authority to be notified at least 72 hours in advance; or
  - as otherwise agreed in writing with the relevant planning authority.
- 4.1.17 For the purposes of a robust assessment in this TGTN, traffic generation has only been calculated for a five day working week and with no Saturday working.
- 4.1.18 It is anticipated that heavy goods vehicles (HGVs) will be required during the enabling and construction phases of the Proposed Development.

#### Operation and maintenance phase

4.1.19 Following the construction phase, the operation and maintenance phase activities can be divided into three main categories:

<sup>&</sup>lt;sup>2</sup> HDD is a continuous activity and cannot be paused once started.

- scheduled maintenance;
- unscheduled maintenance; and
- special maintenance in the event of major equipment breakdown and repairs.
- 4.1.20 A key principle is that the wind farm will be designed to operate under minimum supervisory input. Maintenance of the onshore cable is expected to be minimal. During the operation and maintenance phase, periodic testing of the cable is likely to be required (every two to five years). This will require access to the link boxes at defined inspection points along the onshore cable corridor. This will involve attendance by up to three light vehicles, such as vans, in a day at any one location. The vehicles will gain access using existing field accesses and side accesses as agreed with landowners to reach the relevant sections of the onshore cable.
- 4.1.21 For the onshore cable, unscheduled maintenance or emergency repair visits will typically involve a very small number of vehicles, typically light vans. Infrequently, equipment may be required to be replaced, then the use of an occasional HGV may be utilised, depending on the nature of the repair.
- 4.1.22 Vehicle movements during operation and maintenance phase of the onshore substation will be small, comprising occasional inspection and maintenance requirements. Its considered this traffic will be negligible and there not been assessed.
- 4.1.23 The operational lifetime of the Proposed Development is expected to be around 30 years and for the purposes of this TGTN at year 30 the Proposed Development will reach the decommissioning phase.

#### Decommissioning phase

- 4.1.24 A decommissioning plan and programme will be developed prior to construction and updated during operation of the Proposed Development to account for any changes to decommissioning best-practice and developments in technology.
- 4.1.25 The decommissioning phase is anticipated to involve the removal of offshore infrastructure above the seabed, and the removal and reinstatement of the onshore substation site. The cable will be left in place to avoid disturbance. The decommissioning works are likely to be undertaken in reverse to the sequence of construction works and involve similar levels of equipment but much reduced numbers of vehicles for decommissioning.

## 4.2 The offshore elements of the Proposed Development

- 4.2.1 The key offshore elements of the Proposed Development will be as follows:
  - up to 90 offshore wind turbine generators (WTGs) and associated foundations;
  - blade tip of the WTGs will be up to 325m above Lowest Astronomical Tide (LAT) and will have a 22m minimum air gap above Mean High Water Springs (MHWS);
  - inter-array cables connecting the WTGs to up to three offshore substations;

- up to two offshore interconnector export cables between the offshore substations;
- up to four offshore export cables each in its own trench, will be buried under the seabed within the final cable corridor; and
- the export cable circuits will be High Voltage Alternating Current (HVAC), with a voltage of up to 275kV.

## Construction phase

- 4.2.2 During the construction phase, it is anticipated that 2,000+ two way movements for crew support vessels from the onshore ports to the offshore infrastructure, however it is not established how this will be organised.
- 4.2.3 The construction of the Rampion 1 project resulted in staff arriving and departing numerous ports in the UK and Europe and it is likely this process will be undertaken for Rampion 2.
- 4.2.4 A maximum of 6 crew transfer vessels (which can typically carry 12 to 16 passengers and equipment) is required with 180 return trips<sup>3</sup> (360 two-way movements) for all three offshore substations during the offshore substation vessel installation.
- 4.2.5 A maximum of 10 crew transfer vessels (which can typically carry 12 to 16 passengers and equipment) would be required with 1800 two-way movements for the smaller wind turbine generator type during the offshore installation.
- 4.2.6 Alternatively, a maximum of 6 crew transfer vessels (which can typically carry 12 to 16 passengers and equipment) would be required with 600 two-way movements for the larger wind turbine generator type during the offshore installation.
- 4.2.7 Material, including large transformers, cable and WTG components are expected to be delivered directly from European manufacturing bases. WTG construction vessels are also usually moored in European ports or will transfer from other projects.
- 4.2.8 There will also be some onshore works required in the offshore works but these construction activities (construction compound setup, HDD, Transition Joint Bay (TJB) construction etc.) have relatively short durations compared with the overall landfall construction presented in this TGTN for the construction phase of the landfall site (onshore). Due to the landfall works requiring offshore works, the scheduling of the landfall works will allow for flexibility around the offshore schedule and sufficient time for all onshore activities to be performed so as not to delay the offshore works.
- 4.2.9 Consequently, the onshore impacts of the offshore process (i.e. transferring construction workers to ports to connect to offshore transfers) would have a limited impact onshore compared to the movement of freight. Offshore construction worker movements have been considered as part of the onshore assessment.

<sup>&</sup>lt;sup>3</sup> One return trip comprises 2 two-way movements in total

#### Operation and maintenance phase

- 4.2.10 The operational lifetime of the Proposed Development is expected to be around 30 years and for the purposes of this TGTN at year 30 the Proposed Development will reach the decommissioning phase. It is only anticipated that elements of the Proposed Development that are above sea level will be removed (WTG / substations).
- 4.2.11 When the offshore elements of the Proposed Development are constructed and commissioned staff will be required to continue to operate and maintain the WTGs and associated infrastructure. RED will draw on experience gained in operating and maintaining the existing Rampion 1 project and although the maintenance port and facilities are not yet confirmed, for the purpose of this TGTN it is assumed that the existing operation and maintenance base Newhaven East Quay will be used for staffing.

## 5. Key Construction Traffic Assumptions

## 5.1 Introduction

5.1.1 This Section provides a summary of key assumptions that have been used to calculate construction traffic generation across all elements of the of Proposed Development.

## 5.2 Overview

- 5.2.1 The construction works have been based on the following onshore cable connection design. A maximum of 20 buried cables will run along the length of the onshore cable route from the landfall at Climping through to the new onshore substation at Oakendene. A maximum of 10 buried cables will subsequently run from the new onshore substation to connect into the existing National Grid Bolney substation.
- 5.2.2 The up to 275kV cable system along the onshore cable route will comprise four cable circuits in separate trenches. Each circuit will contain three Power Cables (HVACs) and two Fibre Optic Cables (FOCs) drawn through pre-installed ducts.
- 5.2.3 The 400kV cable system between the new onshore substation at Oakendene and the existing National Grid Bolney substation will comprise two cable circuits in separate trenches. Each circuit will contain three Power Cables and two FOCs drawn through pre-installed ducts. In order to undertake calculations of vehicle movements associated with the construction phase of the onshore elements of the Proposed Development, a fixed scheme is required with regards to onshore cable corridor, onshore substation location and TCC locations. To inform these calculations, vehicle movements have been calculated for each construction site and key assumptions associated with these are discussed in the following subsections for:
  - onshore cable corridor;
  - TCCs;
  - onshore substation; and
  - temporary construction accesses.

## 5.3 Onshore cable corridor

- 5.3.1 The onshore cable corridor is routed from the landfall at Climping through to a proposed new onshore substation at Oakendene, and then onto the existing National Grid Bolney substation.
- 5.3.2 Temporary access points along the onshore cable route have been identified. These accesses may be utilised in different ways, due to safety and efficiency, for example traffic may enter and exit via different accesses whilst making deliveries

August 2024 Rampion 2 Environmental Statement. Volume 4, Appendix 23.2: Traffic Generation Technical Note to site. For the purposes of this assessment, access to and from the onshore cable route is assumed through the access points as set out in **Table 5-1**.

Table 5-1	Accesses
Access	Access Type
A-01	Construction and operational
A-02	Light construction
A-03	Light construction
A-04	Operational
A-05	Construction and operational
A-06	Operational
A-08	Light construction
A-09	Construction and operational
A-10	Operational
A-11	Operational
A-12	Construction
A-13	Construction and operation
A-14	Light construction and operational
A-15	Construction and operational
A-16	Construction and operational
A-17	Operational
A-18	Operational
A-20	Light Construction and operational
A-21	Construction
A-22	Construction
A-23	Operational
A-24	Operational
A-25	Light construction and operational
A-26	Construction and operational

#### Table 5-1Accesses

August 2024



Access	Access Type
A-27	Operational
A-28	Construction
A-29	Operational
A-30	Operational
A-31	Operational
A-32	Operational
A-33	Construction
A-34	Operational
A-35	Construction
A-36	Operational
A-37	Light construction
A-38	Light construction
A-39	Construction and operational
A-40	Construction and operational
A-41	Construction and operational
A-42	Construction and operational
A-43	Construction and operational
A-43-a	Construction
A-43b	Operational
A-44	Operational
A-45	Operational
A-46	Light construction and operational
A-47	Construction and operational
A-48	Construction and operational
A-49	Light construction and operational
A-50	Construction and operational



Access	Access Type
A-50a	Construction
A-50b	Operational
A-51	Operational
A-52	Construction and operational
A-53	Construction
A-54	Operational
A-55	Operational
A-56	Construction and operational
A-57	Construction and operational
A-58	Operational
A-59	Operational
A-60	Operational
A-61	Construction and operational
A-62	Construction
A-63	Construction and operational
A-64	Construction and operational
A-65	Operational
A-66	Light construction and operational
A-67	Construction and operational
A-68	Construction
A-69	Operational

<sup>5.3.3</sup> The temporary construction access points are required along the onshore cable corridor to allow the transportation of materials, equipment, and personnel to and from the construction sites. These temporary construction access points will allow access to the construction corridor where there will be a temporary construction haul road running along the length of the onshore cable route, except for locations where there are trenchless or road crossings. These accesses may be utilised in different ways, due to safety and efficiency, for example traffic may enter and exit via different accesses whilst making deliveries.

- 5.3.4 Potential temporary construction access points along the onshore cable corridor were identified based on suitability for the Proposed Development requirements. Existing access points and tracks have been utilised where possible. These temporary construction and operational accesses may be utilised in different ways due to safety and efficiency, for example construction traffic may use one access for incoming traffic to an onshore cable corridor section and another access for traffic to exit. For the purposes of this assessment, access to and from the onshore cable corridor is assumed through the same access point.
- 5.3.5 The Outline Construction Traffic Management Plan (CTMP) [REP1REP5-010068] includes more detail on the temporary construction access points.

## 5.4 Temporary construction compounds

5.4.1 A number of TCCs will be required to support the construction of the onshore elements of the Proposed Development and will be used to store materials and form a base for traffic travelling to and from construction site locations. These TCCs are outlined in **Section 4.1**.

## 5.5 Onshore substation

- 5.5.1 The purpose of the new onshore substation at Oakendene is to increase the onshore cable route voltage from the export voltage to the 400kV required to connect to the existing National Grid Bolney substation.
- 5.5.2 Access to the onshore substation will be required during construction as well as operation and maintenance. The temporary construction access route will be used for the duration of the onshore substation construction works.
- 5.5.3 Temporary construction activities for the onshore substation will include enabling works and construction works. Enabling works will prepare the site ahead of construction and include vegetation clearance, access road construction, installation of drainage systems, stone fill, installation of a temporary construction compound, delivery of materials, plant, machinery and fuel, and any earthworks necessary for the installation of the substation foundations.
- 5.5.4 Generally, onshore substation construction will take place during daylight hours with a requirement only for local task lighting. Construction works will involve:
  - landscaping;
  - installation of perimeter fencing;
  - ground preparation works;
  - installation of underground services and onshore substation foundations;
  - construction of the control and switchgear buildings and plant buildings;
  - construction of cable trenches;
  - construction of ducts and pits;
  - construction of the oil containment bund; and

- provision of utility supplies.
- 5.5.5 Once all construction activities have been carried out, the electrical equipment will be installed, commissioned and tested for the performance of the connection between Oakendene and the existing National Grid Bolney substation. Finally, the site will be secured, and the temporary area returned to its original use and condition.
- 5.5.6 It is anticipated that heavy goods vehicles (HGVs) will be required during the enabling and construction phases of the development.

## Abnormal Indivisible Loads (AILs)

- 5.5.7 It is anticipated that Abnormal indivisible load (AIL) movements are expected to be required during the construction phase to transport permanent plant and equipment to the site. The expected AIL movements are described in Appendix 23.1: Abnormal Indivisible Loads assessment, Volume 4 of the of the ES [APP-196].
- 5.5.8 There will be up to 10 two-way movements delivering abnormal indivisible loads to the Oakendene substation.
- 5.5.9 AILs will be comprised of:
  - Up to four main transformers; and
  - Six shunt reactors.
- 5.5.10 This figure reflects the update contained within the errata items included in Appendix 3 of the Applicant's cover level to the Pre-Examination Procedural Deadline (**PEPD-001**).

## 5.6 Work section breakdown

- 5.6.1 The three sections of the onshore cable corridor route associated with each of the three TCC's assessed is presented in **Figure 23.2.1, Annex B.**
- 5.6.2 The onshore cable corridor has been divided into sections to define the number of work fronts required. The key onshore cable construction activities occur over a four-year period. It is assumed that the construction crews will initially work on the southernmost section (Section 1) of the onshore cable corridor, moving on to Section 2 and then Section 3 as set out in **Figure 23.2.1**, **Annex B.** The sections are in turn broken down into smaller sections defined by access points and crossings.
- 5.6.3 Each of these sections is defined by the presence of a Temporary Construction Compound (TCC), plus a number of construction accesses.

## 5.7 Construction activities

- 5.7.1 During the construction phase, construction activities have been divided into the following activities:
  - horizontal directional drill (HDD) construction compound works;



- HDD drilling;
- TCC mobilisation;
- temporary compound construction;
- haul roads;
- landfall works;
- clearing works;
- temporary construction access works
- materials deliveries;
- trenching;
- all joint bay works;
- duct installation, cable pulling and reinstatement;
- temporary construction access road / haul road reinstatement;
- compound reinstatement; and
- onshore substation construction.
- 5.7.2 The construction traffic generation of all elements of the works has been predicted across the proposed construction schedule (2025-2029). This has resulted in vehicle movement predictions on a weekly basis per access point for each work site, split into Heavy Goods Vehicles (HGVs) and Light Goods Vehicles (LGVs).

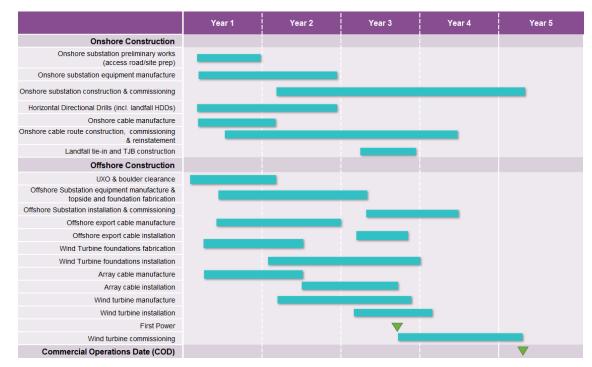
## 5.8 Construction Management Base

- 5.8.1 During the construction phase, the onshore elements of the Proposed Development would be supported with Temporary Construction Compounds (TCC's) (and HDD compounds), accesses and haul roads. There will also be some traffic during the construction phase associated with the construction management base in Shoreham, from where crew transfer onto vessels.
- 5.8.2 A management team, marine co-ordination and vessel management team will be based in the office, and some contractors may use the office facility as well. These teams will comprise around 24 people in total and will be assumed to be shorebased for robustness.
- 5.8.3 The construction management base will enable Crew Transfer Vessels (CTV) to access the offshore construction location. The construction management base will also enable CTV crew transfers to complete construction and commissioning work.
- 5.8.4 The base will feature facilities including:
  - Temporary modular offices, with welfare and changing facilities;
  - Car parking; and
  - Temporary pontoons with a fuelling facility.

5.8.5 It has been assumed that 40 workers per day will travel to the Construction Management Base (CMB) for onward transfer by CTV, and they have the same spatial distribution as workers based at TCC 1. The remainder of the LV traffic is assumed to be LGVs and similarly follows the spatial distribution for TCC 1 deliveries. There are also some HGVs serving the base, and it is assumed that the HGV distribution is followed with respect to these.

## 5.9 Scheduling

- 5.9.1 An indicative construction programme for the Proposed Development is presented in **Graphic 5-1**. The programme illustrates the anticipated duration of the major construction / installation elements. The anticipated worst-case total construction duration for all onshore infrastructure to be complete, operational and for full landscape reinstatement is approximately four years.
- 5.9.2 Each construction activity has been scheduled to overlap activities where necessary across the construction schedule This has involved both paralleling some construction activities where practical and increasing the overall duration for other construction activities, as shown in **Graphic 5-1**.



## Graphic 5-1 Overall Construction Schedule

# 5.10 Construction materials, personnel, plant and equipment requirements

5.10.1 Construction personnel and plant / equipment requirements have been assessed at a high level for the purposes of estimating the number of HGVs required, as well as LGVs required to bring workers to onshore part of the proposed DCO Order Limits. Typically, this is via multi-occupancy vehicles to TCCs, before travelling to specific construction accesses that are part of the onshore part of the proposed DCO Order Limits via five person welfare vans.

5.10.2 As the volume of required construction plant/equipment is anticipated to be relatively low in comparison to other construction activities (e.g. aggregate transportation) associated with the construction of the onshore cable corridor, a high-level estimate has been made only where significant construction plant / equipment requirements are expected.

## 6. Construction traffic generation

## 6.1 Assessment methodology

- 6.1.1 This section presents a high-level overview of the method that has been adopted to estimate the vehicle movements of both heavy goods vehicles (HGVs) and light vehicles (LGVs) throughout the construction phase of the onshore elements of the Proposed Development.
- 6.1.2 This section presents a high-level overview of the method that has been adopted to estimate the vehicle movements of both heavy goods vehicles (HGVs) and light vehicles (LGVs) throughout the construction phase of the onshore elements of the Proposed Development.
- 6.1.3 In this TGTN, a vehicle movement has been defined as a one-way journey between two locations. For example, an HGV delivering cables to a TCC and then leaving empty is considered two journeys. A subsequent further two journeys are then required to deliver the cables from the TCC to site (one loaded, one empty).
- 6.1.4 The estimates within this TGTN have been calculated against a conservative set of assumptions based on the best available information on the onshore works within the proposed DCO Order Limits. The final arrangement of the construction works, and precise methods used will be determined during the detailed design stage and the construction phase of the works depending on the working arrangements favoured by the appointed contractor(s). These factors will influence the number of vehicle movements and the personnel requirements.
- 6.1.5 For this assessment, each of the construction work sites has been treated separately. Each construction work site along the onshore temporary construction corridor has been broken down into the different activities required. Each activity has then been assessed individually for its requirements.
- 6.1.6 The following key design assumptions have been determined for each activity:
  - duration of activity;
  - material and plant required at each work site;
  - length of haul road required;
  - approximate size of construction workforce; and
  - quantity of construction personnel and construction LGVs.
- 6.1.7 Construction traffic vehicle movements associated with the materials required at the onshore cable corridor and onshore substation have been determined based on the latest bill of quantities.

## 6.2 Total Construction Traffic Movements

- 6.2.1 The approach considers a single onshore cable corridor from landfall through to a single onshore substation before connecting by a single onshore cable corridor into the existing substation.
- 6.2.2 **Table 6-1** presents all vehicle movements pertaining to onshore cable corridor and onshore substation construction, broken down by vehicle type and year. Note that movements are all presented as two-way totals, for example an HGV travelling from base to compound is counted as one movement, and then the HGV returning to its base is counted as one movement, (i.e. a total of two movements).
- 6.2.3 These total construction traffic estimates have been used as a basis for all peak assessment scenarios discussed within this TGTN.

Output	Year 1	Year 2	Year 3	Year 4	Total
Peak weekly traffic across the onshore part of the proposed DCO Order Limits – LGV	426	3,510	2,040	1,200	N/A
Peak weekly traffic across the onshore part of the proposed DCO Order Limits – HGV	338	1,146	1,022	1,498	N/A
Total Vehicle Movements – HGVs	4,318	33,790	22,664	8,732	69,504
Total Vehicle Movements – LGVs*	5,790	104,928	6,226	12,180	185,124

#### Table 6-1 Two-way vehicle movement summary

## 6.3 **Construction Traffic Distribution**

6.3.1 The traffic movements were distributed and assigned to a simplified road network diagram for each type of vehicle type, showing two-way movements in and out of the Study Area.

## HGVs

6.3.2 HGV construction traffic consists of the delivery of materials or equipment directly to the work sites via the access points. The access strategy uses strategic roads as seen in **Table 6-2** for the longest part of the journey as detailed within the **Outline Construction Traffic Management Plan (CTMP) [APP-228]**.

Table 6-2         HGV construction traffic distribution
---

Route	Percentage
A27 West	27.59%
A27 East	20.69%
A23 North	27.59%
A23 South	24.14%
	100%

- 6.3.3 The HGV Access Strategy has considered all local constraints, together with policies such as those set out in the West Sussex Transport Plan 2022-2036 (WSCC, 2022), to identify local HGV access routes for assessment purposes which are set out in **Table 6-3**.
- 6.3.4 HGVs would seek to adhere to these routes wherever possible, with certain exceptions, for example, when materials are required to be delivered from a location along a different route (i.e. where it is not possible to follow the assigned routing). Additionally, there may need to be temporary deviations from the HGV routes in the event of an incident on the original route, leading police to redirect HGVs via an alternative route until the incident has been cleared.

Route	HGV access route	Accesses served
1	A27, A259, A284, Ferry Road	A-1
2	A27, A259, A284, Church Road	A-5
3	A27, A259, A284,	A-9
4	A27, A259, A284,	A-12, A-13, A-15, A-16
5	A27	A-21, A-22
6	A27, A280	A-26, A-28
7	A27, A280, A24, A283	A-33, A-35, A-39, A-40, A-41, A-42, A-43
8	A27, A283	A-43
9	A27, A280, A24, A283, B2135, Spithandle Lane	A-47

## Table 6-3HGV access routes

Route	HGV access route	Accesses served
10	A27, A280, A24, A283, B2135	A-48, A-50
11	A27, A280, A24, A283, A2037, A281	A-52
12	A27, A280, A24, A283, A2037, A281, B2116	A-53
13	A23, A272, A281, A27, A283, A2037	A-56, A-57
14	A27, A23, A24, A272	A-62, A-63
15	A27, A23, A24, A272, Kent Street	A-61, A-64
16	A27, A23, A24, A272, Wineham Lane	A-67, A-68

## LGVs

- 6.3.5 The local access routes from compound to access (indicated in **Figure 7.6.9a-c** of the **Outline CTMP** (Document Reference:7.6) and **Table 6-4**) have been used to determine the impact of LGV and HGV traffic on Receptors.
- 6.3.6 This LGV routing allowed estimates to be generated of construction traffic flows for all links within the study area, which has then been used to assess the impact of the Proposed Development at identified sensitive receptors.

### Table 6-4 LGV access routes

Local access route number	Route via local road network	Temporary construction and operational accesses served
Route 1	A27 - A284 - A259 - Ferry Road or Church Lane	A-01, A-05, A-09, A-13, A-15, A-16, A-20, A21.
Route 2	A27 - A280 - A24 - A283- B2135 – B2116	A-26, A-27, A-28, A-39, A-40, A-41, A-42, A-43, A-47, A-48, A-50, A-53, A-54.
Route 3	A23 - A272 - Wineham Lane or A272 - Kent Street (north of Access A-61 only) or A272 - A281	A-51, A-52, A-56, A-57, A-61, A-63, A-64, A-67, A-68, A-69.

- 6.3.7 The LGV Access Strategy is based on a prediction of the construction traffic generation of all onshore elements of the Proposed Development. The construction traffic generation has been applied to the four-year construction schedule, which has resulted in construction vehicle movement predictions per vehicle type on a weekly basis per access point.
- 6.3.8 LGV construction traffic has been distributed onto the network using the following two methods:
  - LGV traffic (staff and other deliveries) This comprises staff driving from home to work at the Temporary Construction Compounds (TCC's), as well as occasional deliveries by LGV to the TCC's. In both cases the spatial distribution has been calculated using the 2011 journey to work census data for three local areas associated with the three sections of the onshore cable corridor of the Proposed Development as seen in **Table 6-5**.
  - LGV traffic by Multi-Occupancy Vehicle (MOV) (5 staff) LGV construction traffic then uses a circular route to drop off staff/materials between the TCC's and the proposed works sites via the access points along the onshore cable corridor. Given there are three compounds there are three circular routes as seen in Table 6-6.
- 6.3.9 On this basis, LGVs (staff and deliveries) can use any routes to travel from their home to/from the compounds, there are no prescribed routes. However, three circular routes have been devised to transport staff/deliveries between the compounds and work sites in shared multi-occupancy vehicles.

Entry / Exit points from highways	Construction staff traffic distribution by TCC / onshore substation			
network scope	Section 1	Section 2	Section 3	
A259 East	21%	3%	2%	
A284 South	33%	2%	1%	
A259 West	16%	3%	0%	
A23 North	1%	2%	17%	
A23 South	3%	3%	6%	
A24 North	3%	15%	21%	
A3021 south	4%	17%	9%	
A27 East	1%	2%	3%	
A27 West	9%	2%	0%	
A284 North	4%	1%	0%	

## Table 6-5 LGV construction staff traffic distribution

Entry / Exit points from highways	Construction staff traffic distribution by TCC / onshore substation			
network scope	Section 1	Section 2	Section 3	
A283 East	0%	12%	8%	
A283 North	0%	0%	0%	
A283 West	0%	29%	13%	
A272 East	1%	1%	9%	
A272 West	0%	2%	3%	
A270	3%	6%	6%	
A273	0%	0%	0%	
A2300	0%	0%	3%	
Total	100%	100%	100%	

#### Table 6-6 MOV circular construction routes

Temporary Construction Compound	LGV Multi-Occupancy Vehicle (MOV) circular access routes
Climping compound, off Church Lane	Church Lane (SB), Ferry Road, A259 (NB), A284 (NB), A27 (EB), A280 (NB), A24 (SB), A27 (WB), A284 (SB) A259 (SB), Church Lane (NB)
Washington compound, north of Washington, West Sussex (accessed from A283)	A283 (WB), A283 (EB), B2135 (NB), Spithandle Lane, B2135 (NB), B2116 (WB), A24 (SB), A283 (EB)
Oakendene west compound (accessed from A272)	Bolney Substation, Wineham Lane (NB), A272 (WB), Kent Street (SB) to A-61, Kent Street (NB), A272 (WB), A281 (SB), Wineham Lane (NB).

## 6.4 Construction traffic generation

6.4.1 This section details estimated number of construction vehicle movements, both Heavy Goods Vehicles (HGVs) and Light Goods Vehicles (LGVs) across the study area using the methodology defined in **Section 6.3**.

- 6.4.2 Construction traffic movements to and from each access have been provided by the project engineering team. These have then been combined with a series of assumptions around routes, occupancy and other relevant factors.
- 6.4.3 For the purposes of this assessment, access to and from the onshore cable route is assumed through the access points as set out in **Table 6-7**.

Access	Use	Total Two-Wa	y Movements	Comments in relation to
ID		LGVs	HGVs	ES Addendum
A-01	Construction and operational	2178	1812	N/A
A-02	Light construction	<10	0	10 LGVs included in peak week assessment
A-03	Light construction	<10	0	10 LGVs included in peak week assessment
A-05	Construction and operational	33900	9342	N/A
A-08	Light construction	<10	0	10 LGVs included in peak week assessment
A-09	Construction and operational	1026	1338	N/A
A-12	Construction	456	878	N/A
A-13	Construction and operation	Up to 480	Up to 562	Shared access with A-15
A-14	Light construction and operational	<10	0	10 LGVs included in peak week assessment
A-15	Construction and operational	Up to 480	Up to 562	Shared access with A-13
A-16	Construction and operational	2358	3520	N/A
A-20	Light Construction	<10	0	10 LGVs included in peak week assessment
A-21	Construction	Up to 1500	Up to 2604	Access shared between
A-22	Construction			A-21 and A-22

#### Table 6-7Total two-way construction movements by access

Access	Use	Total Two-Wa	y Movements	Comments in relation to
ID		LGVs	HGVs	ES Addendum
A-24	Light construction and operational	<10	0	10 LGVs included in peak week assessment
A-25	Light construction and operational	<10	0	10 LGVs included in peak week assessment
A-26	Construction and operational	2238	4892	Access shared between A-26 and A-28
A-28	Construction			
A-33	Construction	1416	2646	N/A
A-35	Construction	60	160	N/A
A-37	Light construction	<10	0	10 LGVs included in peak week assessment
A-38	Light construction	<10	0	10 LGVs included in peak week assessment
A-39	Construction and operational	54546	7660	N/A
A-40	Construction and operational	966	1468	Access shared between A-40 and A-41
A-41	Construction and operational			
A-42	Construction and operational	192	318	N/A
A-43	Construction and operational	1728	3134	N/A
A-46	Light construction and operational	<10	0	10 LGVs included in peak week assessment
A-47	Construction and operational	648	900	N/A
A-48	Construction and operational	672	1416	N/A

Access ID	Use	Total Two-Wa	y Movements	Comments in relation to ES Addendum
טו		LGVs	HGVs	es Audendum
A-49	Light construction and operational	<10	0	10 LGVs included in peak week assessment
A-50	Construction and operational	708	1248	N/A
A-52	Construction and operational	<10	1550	N/A
A-53	Construction	<10	0	10 LGVs included in peak week assessment
A-56	Construction and operational	780	1182	N/A
A-57	Construction and operational	1116	1816	N/A
A-61	Construction and operational	828	1320	N/A
A-62	Construction	16338	5778	N/A
A-63	Construction and operational	52254	11438	N/A
A-64	Construction and operational	468	892	N/A
A-66	Light construction and operational	<10	0	10 LGVs included in peak week assessment
A-67	Construction and operational	444	644	N/A
A-68	Construction	7182	986	N/A

## Assumptions

- 6.4.4 The following assumptions have been made to provide a high-level estimate of construction traffic:
  - for robustness, weekday traffic numbers have been calculated on the basis of dividing the weekly traffic by five working days per week;

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- number of person-days all workers are assumed to travel to the onshore part
  of the proposed DCO Order Limits once per day via personal LVs (i.e. cars) with
  one worker per vehicle (i.e. no car sharing). This is a robust assumption for the
  purposes of the traffic assessment as, in practice, once the workforce becomes
  established, some degree of car sharing may take place;
- plant and equipment required to complete each construction activity will be stored on the various construction sites (along the onshore cable corridor) that form part of the onshore part of the proposed DCO Order Limits, as opposed to within TCC's. As a result, plant and equipment is associated with only two movements (access and egress) per temporary construction access point;
- all materials are brought directly to the construction sites that are part of the onshore part of the proposed DCO Order Limits, with exception of cement bound sand (CBS), cables and ducts, which will first be stored within TCCs; and
- LGV quantities assume up to five individuals per shared vehicle, and one individual per car arriving at TCCs;
- 2011 Census Journey to Work Data was used to estimate home (or temporary home) locations of the construction workforce, which was then sense checked. The results reflect a workforce which will both aim to encourage local employment as well as uptake of local accommodation by some workers sourced from further afield; and
- For robustness, for the purpose of the traffic analysis, all workers were assumed to travel by car and without car sharing taking place; in practice, there will be measures to encourage sustainable travel amongst the workforce, as set out in the Outline CWTP [APP-229] and Outline OTP [APP-227].
- All light construction accesses generate 10 LGV movements during the peak construction traffic week.
- Where optionality exits between use of accesses (e.g. A13/A15) all construction traffic uses whichever access results in a worst-case impact on nearby receptors.

## 6.5 ES Chapter 23 Peak Construction Scenarios

- 6.5.1 Using the construction traffic generation assumptions contained within this TGTN the impact of the Proposed Development at its peak has been assessed in **Chapter 32: ES Addendum, Volume 2** of the Environmental Statement (ES) **[REP1-006]** by comparing estimates of construction traffic generated by the Proposed Development with future predicted baseline traffic flows on the road links. This has been completed for different construction traffic scenarios to account for different construction activity peaks across the programme and along the onshore cable corridor as summarised in below:
  - Peak Week 70: Construction traffic associated with the peak week of four-year construction programme (as summarised in Table 23-36 of Chapter 32: ES Addendum, Volume 2 of the ES [REP1-006]:
    - The peak week has been obtained by calculating the total number of vehicle trips for all accesses in each week (regardless of whether the trips are LGV

or HGV). The peak week has been used to assess each individual receptor which may be impacted by construction traffic associated with that access, thereby offering both a consistent approach (since all traffic flows are from the same week) as well as a robust approach (since it is the peak week as calculated across the entire study area). This same method has been used to identify the peak weeks for each of the three sections outlined below.

- Section-based peak weeks: As part of the Proposed Development the entire onshore temporary cable corridor was split into three sections:
  - Section 1 runs north from landfall, across the A259, the River Arun and the two railway lines before crossing the A27 near the edge of the South Downs at Warningcamp. This section is rural but runs along the edge of the settlements of Littlehampton, Wick, Lyminster and Crossbush. The peak week for section 1 has been identified as week 72 of the construction programme;
  - Section 2 runs north east from the Section 1 boundary to a crossing of the A24 near Washington, West Sussex. Between the A27 and A24, the onshore cable corridor has minimal interaction with the local highways network and due to the nature of access options, will make use of a continuous haul road. The peak week for section 2 has been identified as week 83 of the construction programme; and
  - Section 3 runs from the Section 2 boundary along the A283 corridor before turning north east to Partridge Green and further East to Wineham/Bolney. This section is flat and rural in character but with more crossings of roads. The peak week for section 3 has been identified as week 125 of the construction programme
- Annual Average Weekday Traffic (AAWT) for year 1, 2, 3 and 4 of the construction programmes (as summarised in Table 23-38 of Chapter 32: ES Addendum, Volume 2 of the Environmental Statement (ES) [REP1-006].

## 6.6 ES Addendum Further Sensitivity Tests

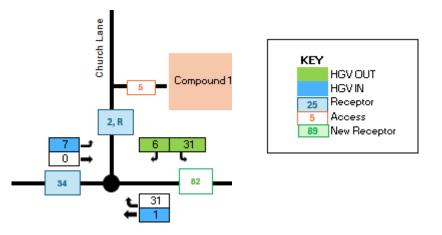
6.6.1 A further sensitivity test has been undertaken which assesses the peak week for construction traffic at each receptor. The week used to assess the impact has been based on the peak week in total construction traffic and the peak week of HGV construction traffic. Whilst recognising that this is an unrealistic scenario in practice due to those weeks occurring at different weeks in the programme, it enables the worst case for each receptor to be considered. A summary of the methodology used as part of this additional sensitivity test and the outcomes of the assessment are outlined below.

## Total Construction Traffic Peak

6.6.2 This assignment exercise was used to calculate peak construction traffic flows (two-way movements) by access, for each type of construction vehicle (LGVs, LGV MOVs and HGVs) for each week of the construction programme. This produced 612 separate road network diagrams (204 for LGV, 204 for LGV MOV and 204 for HGV) one for each week of the construction programme **Graphic 6-1** 



shows an excerpt from the Week 2 road network diagram, which shows 12 oneway movements, or 24 two-way movements pass Receptor 2 on Church Lane



#### Graphic 6-1 Week 2, Total Peak Week excerpt from network diagram

6.6.3 From these network diagrams, three separate matrices showing two-way movements (using the turning movements either side of each receptor) have been developed for LGVs, LGV MOVs and HGVs by week and receptor. These three matrices have then been summed to provide a matrix for the Total vehicles (HGV+LGV+LGV MOV) for each week as seen in the example in **Graphic 6-2** and the cumulative impact on each receptor.

#### Graphic 6-2 Total vehicles on a week-by-week basis

1	Α	В	С	D	E	F	G	н	1	J	K	L	M	N	0
1	Week	Receptor	1	2	3	4	5	6	7	8	9	10	11	12	13
2	0		16	75.56674	20.89213	8.130132	63.44298	20.37444	20.37444		10.79031		18.07149	5.969181	5.969181
3	1		16	75.56674	20.89213	8.130132	63.44298	20.37444	20.37444		10.79031		18.07149	5.969181	5.969181
4	2		16	75.56674	20.89213	8.130132	63.44298	20.37444	20.37444		10.79031		18.07149	5.969181	5.969181
5	3		16	75.56674	20.89213	8.130132	63.44298	20.37444	20.37444		10.79031		18.07149	5.969181	5.969181
6	4		16	75.56674	20.89213	8.130132	63.44298	20.37444	20.37444		10.79031		18.07149	5.969181	5.969181
7	5		16	75.56674	20.89213	8.130132	63.44298	20.37444	20.37444		10.79031		18.07149	5.969181	5.969181
0	· ·		40	75 56674	20.00212	0.100100	C2 44200	20.27444	20.27444		10 70021	~	10.07140	E 000101	E 000101

6.6.4 This total has then been used to determine the peak week for each receptor as seen in **Graphic 6-3**. For example, Receptor 6 the peak Week is 72. Therefore, the peak impact at Receptor 6 in Week 72, is 227 HGVs and 462 LGVs (128 LGVs + 334 LGV MOVs).

#### Graphic 6-3 Impact Assessment based on Total peak week

	Total					HGV	LGV	MOV	LGV+MOV
Receptor	Value	Week Start	Week End	Week Start	Week End	Value	Value	Value	Value
1	469	70	70	70	70	160	0	309	309
2	1837	72	72	72	72	256	1247	334	1581
3	436	72	72	72	72	0	436	0	436
4	441	162	162	162	162	403	38	0	38
5	1559	72	72	72	72	227	998	334	1332
6	690	72	72	72	72	227	128	334	462
7	690	72	72	72	72	227	128	334	462

## HGV Construction Traffic Peak

6.6.5 Similarly, a sensitivity test has also been undertaken using the HGV peak week as seen in **Graphic 6-4**. For example, Receptor 6 the peak Week is 83. Therefore, the peak impact at Receptor 6 in Week 83, is 248 HGVs and 281 LGVs (59 LGVs + 222 LGV MOVs).

	HG	GV					HGV	LGV	MOV	LGV+MOV
Receptor	Va	alue	Week Start	Week End	Week Star	Week End	Value	Value	Value	Value
1		160	70	70	70	70	160	0	309	309
2		274	158	158	158	158	274	8	52	60
3		0	0	204	0	204	0	3	0	3
4		376	162	162	162	162	376	2	0	2
5		248	83	83	83	83	248	64	222	286
6		248	83	83	83	83	248	59	222	281
7		260	162	162	162	162	260	7	75	82
8		0	0	204	0	204	0	0	0	0
9		376	162	162	162	162	376	2	0	2

#### Graphic 6-4 Impact Assessment based on HGV peak week

- 6.6.6 Importantly, this methodology shows individual peak week construction traffic flows for each receptor, meaning that peaks at each receptor do not necessarily happen in the same week. For example, as seen in **Graphic 6-4** Receptor 1 (Ferry Road) the peak week is Week 70, whilst the peak week for Receptor 7 (A284 North of Wick) is Week 162. This ensures that a worst-case assessment is completed for all identified receptors within the Study Area.
- 6.6.7 The estimates within this TGTN have been calculated against a conservative set of assumptions based on the best available information on the onshore works within the proposed DCO Order Limits. The final arrangement of the construction works, and precise methods used will be determined during the detailed design stage and the construction phase of the works depending on the working arrangements favoured by the appointed contractor(s). These factors will influence the number of vehicle movements and the personnel requirements.
- 6.6.8 Based on the methodologies described above for LGVs (staff and deliveries) and HGVs, **Table 6-8** presents the LGV and HGV peak week movements at each construction access and **Table 6-9** presents the LGV and HGV movements (two-way total) for each receptor location.
- 6.6.9 In viewing **Table 6-8** it should be noted that the peak construction traffic week occurs at different accesses during different weeks of the construction programme, and that the HGV and overall total peaks may be on different weeks. Further details of when the peak construction week occurs at each access, and an estimate of the length of time that construction traffic flows remain above 90%, 75%, and 50% of this peak is included in Annex C.

Access ID	Peak Total Weekly Two-way Movements								
U	F	lGVs	Total	vehicles					
	Number	Peak Weeks	Number	Peak Weeks					
A-01	160	70	244	70-71					
A-02	N/A	N/A	10	N/A					
A-03	N/A	N/A	10	N/A					
A-05	274	158	1498	72					
A-08	N/A	N/A	10	N/A					
A-09	232	161	244	161					
A-12	234	162	246	162					
A-13	130	64	226	64					
A-14	N/A	N/A	10	N/A					
A-15		uction traffic routed ugh A-13	10	N/A					
A-16	218	164-166	282	68, 70					
A-20	N/A	N/A	10	N/A					
A-21	196	161-163	224	61					
A-22									
A-24	N/A	N/A	10	N/A					
A-25	N/A	N/A	10	N/A					
A-26	244	161-166	310	70-73					
A-28									
A-33	254	85-87	302	85-87					
A-35	76	60, 88	88	60, 88					
A-37	N/A	N/A	10	N/A					
A-38	N/A	N/A	10	N/A					

## Table 6-8 Peak weekly movements by access

Access	Peak Total Weekly Two-way Movements								
ID	H	lGVs	Total	vehicles					
	Number	Peak Weeks	Number	Peak Weeks					
A-39	266	114-117	1656	83					
A-40	160	158-159	222	116					
A-41									
A-42	78	106, 161	128	122-123					
A-43	236	162-164	248	162-164					
A-46	N/A	N/A	10	N/A					
A-47	160	157	172	157					
A-48	198	158-159	210	158-159					
A-49	N/A	N/A	10	N/A					
A-50	172	160-161	196	90					
A-52	242	162-163	10	N/A					
A-53	N/A	N/A	242	162-163					
A-56	150	98	198	98					
A-57	188	158-159	222	111					
A-61	142	160-161	154	160-161					
A-62	326	124	866	125					
A-63	336	83-90	900	83-90					
A-64	274	162	286	162					
A-66	N/A	N/A	10	N/A					
A-67	170	163	186	125					
A-68	92	127-129	272	127-129					

Link No	Location	Total Peak V Construction Tra weekday	affic (per	HGV Peak W Construction Tra weekday	affic (per
		Total Vehicles	HGVs	<b>Total Vehicles</b>	HGVs
1	Ferry Road	94	32	94	32
2	Church Lane	367	51	104	55
3	Ford Road	87	0	4	0
4	A27, West of Arundel	88	81	88	81
5	A259, West of Wick	312	45	232	50
6	A284, North of Wick	138	45	132	50
7	A284 Lyminster	138	45	74	52
9	A27, Arundel Station	91	81	91	81
11	A27, South of Crossbush	186	105	128	108
12	A27 High Salvington	128	123	128	123
13	A24/A27 Offington (Warren Road)	128	123	128	123
14	A24 Findon	75	0	2	0
15	A280 Long Furlong	118	108	118	108
16	A283 West of A24	203	51	203	51
17	A283 East of A24	411	12	124	59
18	B2135, South of Ashurst	64	24	42	34
19	A283, Steyning	102	54	90	63
20	A24, South of A272	139	19	120	39

### Table 6-9 Onshore construction traffic impact per receptor

Link No	Location	Total Peak V Construction Tra weekday	affic (per	HGV Peak W Construction Tra weekday	affic (per
		Total Vehicles	HGVs	Total Vehicles	HGVs
21	B2116 Patridge Green Road	4	0	0	0
22	A281, South Shermanbury	79	48	79	48
23	A281, South of Cowfold	59	0	45	12
24	A281, Cowfold Centre	168	32	155	39
25	A272, Station Road, Cowfold	168	32	155	39
26	Wineham Lane, South of A272	70	41	70	41
27	A272, West of A23	214	85	212	101
28	A23, North of the A272	110	83	110	83
29	B2188, Sayers Common*	0	0	0	0
30	B2116, Henfield Road, Albourne*	0	0	0	0
31	A23, North of the A272	109	93	109	93
32	A27, West of A23	141	95	139	131
33	A27, East of A23	92	47	80	62
34	A259, West of Church Street	76	17	63	18
35	A259, East of Wick	96	0	4	0

6.6.10 **Table 6-10** provides the HGV and LGV movements generated by construction at each of the new receptors identified within **Chapter 32: ES Addendum** of the ES (Document Reference: 6.2.32).

Link No	Location	Total Pea Constructior week	n Traffic (per	HGV Peak Constructio (per wee	n Traffic
NO		Total Vehicles	HGVs	Total Vehicles	HGVs
Α	B2139, Coolham Road	13	0	0	0
В	A272, West Chiltington Lane, Pound Lane, Shipley Road	13	0	0	0
С	A272, Cowfold Road	168	32	155	39
D	B2135, Steyning Road, East of Park Lane	41	0	1	0
Е	A272, Bolney Road, East of A281, North of Oakfield Road	225	32	204	39
F	A272, Cowfold Road West of the A23	214	85	212	101
G	A281, North of Woodside Close	59	0	45	12
н	B2135 / B2116 High Street, Partridge Green	4	0	0	0
I	A281, Brighton Road, North of Partridge Green Road	59	0	45	12
J	Wineham Lane	28	0	0	0
к	B2118, East of B2116 Henfield Road*	0	0	0	0
L	B2135, North of Spithandle Lane	44	6	28	20

### Table 6-10 Onshore construction traffic impact per new receptors

Link No	Location	Total Pea Construction week	Traffic (per	HGV Peak Constructio (per wee	n Traffic
NO		Total Vehicles	HGVs	Total Vehicles	HGVs
М	A281, High Steet, Henfield	64	48	64	48
Ν	A281, Brighton Road*	0	0	0	0
ο	A283 Storrington Road, Northeast of Sullington Lane	203	51	203	51
Ρ	Michelgrove Lane	62	40	51	49
Q	A284, Lyminster Road	138	45	74	52
R	Church Lane, North of the A259	367	51	104	55
S	Ford Road, Station Road*	87	0	4	0
т	Ford Road	87	0	4	0
U	Kent Street**	60	55	60	55

\* zero values highlight receptors that were identified but are not anticipated to be used by construction traffic associated with the Proposed Development

\*\* to provide a robust assessment peak week flows for Kent Street have been based upon peak flows associated with construction access A-64.

# 7. Operation and maintenance traffic generation

### 7.1 **Overview**

- 7.1.1 The operational lifetime of the Proposed Development is expected to be around 30 years. Taking place after commissioning of the Proposed Development, operation and maintenance activities can be divided into three main categories:
  - scheduled maintenance;
  - unscheduled maintenance; and
  - special maintenance in the event of major equipment breakdown and repairs.

### 7.2 Traffic generation

- 7.2.1 Maintenance of the onshore cable is expected to be minimal. During operation and maintenance, periodic testing of the cable is likely to be required (every two to five years). This will require access to the link boxes at defined inspection points along the onshore cable route. This will involve attendance by up to three light vehicles, such as vans, in a day at any one location. The vehicles will gain access using existing field accesses and side accesses as agreed with landowners to reach the relevant sections of the onshore cable.
- 7.2.2 Monitoring of the onshore substation will be done remotely using CCTV technology and other remote monitoring equipment. The security fencing installed during construction will remain in place. Certain areas of the onshore substation will have permanent light fittings; however, these lights will only be used when required for unscheduled maintenance or emergency repair purposes.
- 7.2.3 Unscheduled maintenance or emergency repair visits will typically involve a very small number of vehicles, typically light vans. Infrequently, equipment may be required to be replaced, then the use of an occasional HGV may be utilised, depending on the nature of the repair.
- 7.2.4 Inspection and minor servicing may be required for the electrical plant, but it is anticipated that the substation will require minimal scheduled maintenance and operation activities.
- 7.2.5 Impacts on National Parks from traffic generated from Newhaven Port in Study Area 2 has been considered.
- 7.2.6 During the operation and maintenance phase, it is currently estimated that 40-50 full time staff will be required per day. For the purposes of assessment in this chapter, it is proposed to assess a worst case of 50 staff per day into and out of East Quay, Newhaven Port, which currently accommodates the existing Rampion 1 project operation and maintenance facility.

7.2.7 For the daily traffic generation, it is assumed that all staff arrive by private car with no car sharing or use of sustainable modes. This results in 100 two staff vehicle movements per day, the impacts of which on the local highways network are assessed in of **Chapter 23: Transport, Volume 2** of the ES **[APP-064]**.

### 7.3 Traffic distribution

- 7.3.1 The traffic is proposed to be distributed following the same approach as staff traffic for the construction phase and using journey to work data. An assessment of journey to work data based on the existing port indicates the following distribution of traffic and where it will leave Study Area 2:
  - A259 West (Newhaven) 30.58%;
  - A259 East 37.79%;
  - A27 West 18.64%; and;
  - A27 East 12.99%.
- 7.3.2 Figure 23.21a-d, Volume 3 of the ES [APP-064] sets out the daily traffic impacts on the local highways network and the location of the highways links affected is set out in Figure 23.22, Volume 3 of the ES [APP-064].
- 7.3.3 The impacts on National Parks from operational and maintenance traffic from Newhaven have been considered in Study Area 2.

# Table 7-1Onshore operation and maintenance traffic percentage impact per<br/>highways link – Study Area 2

Highway Link	Future Year Ba	se Traffic (2030)		aff Traffic (per ay)
	Total Vehicles	HGVs	Total Vehicles	HGVs
1 - McKinley Road	3055	265	100	0
2 - A26 South Heighton	18722	1454	32	0
3 - A26 Beddingham	18722	1454	32	0
4 - A27 West of A26	40726	2205	32	0
5 - A26 East of A25	29199	1257	19	0

# 8. Decommissioning traffic generation

### 8.1 Onshore decommissioning

### **Onshore cable**

- 8.1.1 It is anticipated that the onshore electrical cables will be left in-situ with ends cut, sealed and buried to minimise environmental effects associated with removal.
- 8.1.2 The only onshore element of the Proposed Development that will require to be removed in the decommissioning phase is the onshore substation and therefore only a small part of Study Area 1 will be affected by decommissioning traffic.

### **Onshore substation**

- 8.1.3 The onshore substation may be used as a substation site after decommissioning of the Proposed Development or it may be upgraded for use by another offshore wind project. This will be subject to a separate planning application.
- 8.1.4 Should the onshore substation need to be decommissioned fully, however, the decommissioning works are likely to be undertaken in reverse to the sequence of construction works and involve similar levels of equipment. All relevant sites will be restored to their original states or made suitable for an alternative use.
- 8.1.5 The decommissioning duration of the onshore infrastructure may take a comparable amount of time as construction of the Proposed Development, up to four years, although this indicative timing may reduce.
- 8.1.6 The calculations indicate that the peak week of the construction of the onshore substation will result in a peak traffic week that comprises:
  - 76 two-way HGV movements during temporary compound construction;
  - 36 two-way LGV movements during temporary compound construction;
  - 2 onshore substation two-way HGV movements;
  - 120 onshore substation two-way HGV movements; and
  - Total two-way vehicle movements: 196 HGV and 38 LGV per week
- 8.1.7 This will result in the following daily traffic which have informed the assessment in **Chapter 23: Transport, Volume 2** of the ES **[APP-064].** 
  - 39 two-way HGVs; and
  - 8 two-way LGVs.
- 8.1.8 Distribution of this traffic during the decommissioning phase has been based on the same distribution patterns as the construction phase as set out in **Table 6-2** and Table 23-27 of the **Chapter 23: Transport, Volume 2** of the ES **[APP-064]**.

- 8.1.9 It is considered that the decommissioning of the onshore substation will require the same levels of traffic generation as the construction phase and therefore the peak construction traffic generation of the construction phase will be used as a basis for assessment.
- 8.1.10 Therefore, using Oakendene onshore substation as the basis for assessment and the traffic distribution used for construction. It is considered that only Highway link 27 located on the A272, West of A23 will require assessment for the decommissioning phase, given the logical HGV routes from the SRN.
- 8.1.11 Unlike the assessment for the construction phase, Highways link (27) that requires assessment would only have to accommodate traffic associated with the onshore substation decommissioning and not the traffic associated with the onshore cable decommissioning as the onshore cable will be left in situ. As such traffic at this highways link will be less than set out in the assessment for the construction phase at these two links as the additional cable related traffic in the construction phase would not be present in the decommissioning phase. An assessment has still been provided for robustness due to the different future year for the decommissioning phase.
- 8.1.12 **Table 8-1** shows the anticipated traffic impact during the decommissioning stage, which is de minimis.

## Table 8-1Onshore substation decommissioning traffic percentage impact per<br/>highways link

Highway Link	Future Year Base	Traffic (2051)	Peak Week Staf day)	
	Total vehicles	HGVs	Total vehicles	HGVs
27 – A272, West of A23	21414	1069	156	48

### Offshore

- 8.1.13 The offshore decommissioning phase has been scoped out of further assessment as it is proposed that only above several elements of the Proposed Development are removed such as the offshore substations and WTGs. As such, the onshore traffic generation is expected to be significantly lower than the construction phase.
- 8.1.14 As with the construction phase, the works required to decommission the offshore elements of the Proposed Development are likely to be undertaken from a few ports across Europe and the UK, and as such the impacts on UK roads will be mitigated by this construction strategy. Based on the above, the offshore decommissioning phase has been scoped out of the assessment.



# 9. Glossary of terms and abbreviations

Term (Acronym)	Definition
AADF	Annual average weekday flow
AAWT	Annual average weekday traffic
CBS	cement bound sand
СМВ	construction management base
FOC	Fibre Optic Cable
ha	hectare
HDD	horizontal directional drill
HGV	Heavy Goods Vehicle
HVAC	High Voltage Alternating Current
ID	identification
JB	joint bay
kg	kilogram
Km	kilometre
kV	kilovolt
LGV	Light Goods Vehicle
m	metres
mm	millimetres
Preliminary Environmental Information Report (PEIR)	The written output of the Preliminary Environmental Impact Assessment undertaken for the Proposed Development. It was developed to support Statutory Consultation and presented the preliminary findings of the assessment to allow an informed view

Term (Acronym)	Definition
	to be developed of the Proposed Development, the assessment approach that was undertaken, and the preliminary conclusions on the likely significant effects of the Proposed Development and environmental measures proposed.
тсс	temporary construction compound
TJB	transition joint bay

# 10. References

CrashMap, (2021). *Crashmap*. [online]. Available at: <u>https://www.crashmap.co.uk/</u> [Accessed 4 April 2023].

Department for Transport (DfT), (2022). *DfT Circular 01/2022 Strategic Road Network and the Delivery of Sustainable Development, Page 1-23.* [online]. Available at: <u>Strategic road network and the delivery of sustainable development - GOV.UK (www.gov.uk)</u> [Accessed 4 April 2023].

Department for Transport (DfT), (2021). *RAS0302 Reported road collision rates by severity, road type and class, Great Britain, ten years up to 2021* <u>https://www.gov.uk/government/statistical-data-sets/reported-road-accidents-vehicles-and-casualties-tables-for-great-britain#road-type-ras03</u> [online]. Available at: [Accessed 4 April 2023].

Department for Transport (DfT), (2020). *Road Traffic Statistics*. [online]. Available at: <u>https://roadtraffic.dft.gov.uk/#6/55.254/-6.053/basemap-regions-countpoints</u> [Accessed 4 April 2023].

Department for Transport (DfT), (2021). *Quarterly traffic estimates (TRA25), TRA2501: Road traffic (vehicle miles) by vehicle type in Great Britain*. [online]. Available at: <u>https://www.gov.uk/government/statistical-data-sets/tra25-quarterly-estimates</u> [Accessed 30 June 2021].

Department for Transport (DfT), (2022). *Road Safety Data*. <u>https://www.data.gov.uk/dataset/cb7ae6f0-4be6-4935-9277-47e5ce24a11f/road-safety-data</u> [online]. Available at: [Accessed 4 April 2023].

Department of Energy and Climate Change (DECC), (2011). Overarching National Policy Statement for Energy (EN-1). [online]. Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_ data/file/47854/1938-overarching-nps-for-energy-en1.pdf [Accessed 4 April 2023].

E.On/RSK Environmental Ltd, (2012). *Rampion Offshore Wind Farm, Environmental Statement, RSK, Section 29 Transport.* [online]. Available at: <a href="https://www.rampionoffshore.com/environmental-statement/">https://www.rampionoffshore.com/environmental-statement/</a> [Accessed 4 April 2023].

Google, (2021). *Google Maps and Google Traffic*. [online]. Available at <u>https://www.google.co.uk/maps/</u> [Accessed 4 April 2023].

Horsham District Local Council, (2019). *Draft Horsham District Local Plan 2019-2036*. [online]. Available at:

https://strategicplanning.horsham.gov.uk/LocalPlanReview/viewCompoundDoc?docid=103 36756 [Accessed 4 April 2023].

Institute of Environmental Assessment (IEA), (1993). *Guidance Note 1 – Guidelines for the Environmental Assessment of Road Traffic.* 

Mid Sussex District Council, (2018). *Mid Sussex District Plan 2014 – 2031, Pages 78-79.* [online]. Available at: <u>https://www.midsussex.gov.uk/media/2367/district-plan-adoption-version.pdf</u> [Accessed 04 April 2023]. Ministry of Housing Communities and Local Government, (2021). *National Planning Policy Framework, pages 31-32.* [online]. Available at:

https://www.gov.uk/government/publications/national-planning-policy-framework--2 [Accessed 04 April 2023].

Office for National Statistics, (2011). *Nomis Official Labour Market Statistics*. [online] Available at <u>https://www.nomisweb.co.uk/</u> [Accessed 04 April 2023].

Owen Williams Consultants, (1996). *Newhaven Port Access Road – Site Plan, East Sussex County Council, Drawing 5A928/12/2*. [online]. Available at: <a href="https://www.eastsussex.gov.uk/roadsandtransport/roads/roadschemes/newhaven-port-access-road/scheme-details/">https://www.eastsussex.gov.uk/roadsandtransport/roads/roadschemes/newhaven-port-access-road/scheme-details/</a> [Accessed 04 April 2023].

Planning Inspectorate (PINS). (2020a). *Scoping Opinion: Proposed Rampion 2 Offshore Wind Farm. Case Reference EN010117*, [online]. Available at: <u>https://infrastructure.planninginspectorate.gov.uk/wp-</u>

content/ipc/uploads/projects/EN010117/EN010117-000045-EN010117 Scoping Opinion.pdf [Accessed 04 April 2023].

Planning Inspectorate, (2020b). Advice Note Seven: EIA: Process, Preliminary Environmental Information, and Environmental Statements (Version 7). [online]. Available at: <u>https://infrastructure.planninginspectorate.gov.uk/legislation-and-advice/advicenotes/advice-note-seven-environmental-impact-assessment-process-preliminary-</u> environmental-information-and-environmental-statements/ [Accessed 04 April 2023].

Rampion Extension Development Limited (RED), (2020). Rampion 2 Offshore Wind Farm – Environmental Impact Assessment Scoping Report, [online]. Available at: https://infrastructure.planninginspectorate.gov.uk/wpcontent/ipc/uploads/projects/EN010117/EN010117-000006-EN010117%20-%20Scoping%20Report.pdf [Accessed 04 April 2023].

Standards for Highways, (2020). *Design Manual for Roads and Bridges*. [online]. Available at: <u>https://www.standardsforhighways.co.uk/dmrb/</u> [Accessed 04 April 2023].

Sustrans, (2021). *Sustrans National Cycle Network Map*. [online]. Available at: <u>https://www.sustrans.org.uk/national-cycle-network</u> [Accessed 04 April 2023].

West Sussex County Council (WSCC), (2022), *West Sussex Transport Plan 2022-2036, Pages 26-29, 35, 44, 50-51.* <u>https://www.westsussex.gov.uk/media/17428/wstp.pdf</u> [online]. Available at: [Accessed 04 April 2023].

West Sussex County Council (WSCC), (2020a). West Sussex Walking and Cycling Strategy 2016-2026, Pages 1-52. [online]. Available at: <u>https://www.westsussex.gov.uk/media/9584/walking\_cycling\_strategy.pdf</u> [Accessed 04 April 2023].

West Sussex County Council (WSCC), (2020b). *Permanent Automatic Traffic Counts.* [online]. Available at: <u>https://www.westsussex.gov.uk/roads-and-travel/traffic-management/traffic-counts/</u> [Accessed 04 April 2023].

West Sussex County Council (WSCC), (2021a). *iMap.* [online]. Available at: <u>https://www.westsussex.gov.uk/land-waste-and-housing/public-paths-and-the-</u> countryside/public-rights-of-way/public-rights-of-way-imap/imap/ [Accessed 04 April 2023].

West Sussex County Council (WSCC), (2021b). *Bus routes and timetables*. [online]. Available at: <u>https://www.westsussex.gov.uk/roads-and-travel/travel-and-public-</u>

August 2024 Rampion 2 Environmental Statement. Volume 4, Appendix 23.2: Traffic Generation Technical Note transport/bus-and-coach-travel/plan-your-journey/bus-routes-and-timetables/ [Accessed 04 April 2023].

Worthing Borough Council, (2023). *Local Plan 2020 – 2036, Page 149-150*. [online]. Available at: <u>https://www.adur-worthing.gov.uk/media/Media,169486,smxx.pdf</u> [Accessed 04 April 2023].



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### Annex A Traffic calculations



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#### Traffic Calculation Sheets

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101         0	0       0	0         0	0       0	0         0
104         0         0         0         0         0         0           3         105         95         0         0         0         184           3         106         96         0         0         0         184		0         0	0         0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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3         122         112         0         0         0         0         0         0           3         123         113         0	0       0	0         0	0       0       0       0       0       68       38       0       0       62       0       0       56       0 <td>0         0         0         62         0         114         0         0         0         80         0         480         1488           0         0         0         62         0         114         0         0         0         80         0         442         1450           0         0         0         0         0         114         178         0         0         80         0         564         1572</td>	0         0         0         62         0         114         0         0         0         80         0         480         1488           0         0         0         62         0         114         0         0         0         80         0         442         1450           0         0         0         0         0         114         178         0         0         80         0         564         1572
3         125         115         0 <td>0         0</td> <td>0         0</td> <td>0         0</td> <td>0         0         0         0         114         12         0         0         126         80         0         548         1604           0         0         0         0         114         12         0         0         10         80         0         370         1378</td>	0         0	0         0	0         0	0         0         0         0         114         12         0         0         126         80         0         548         1604           0         0         0         0         114         12         0         0         10         80         0         370         1378
3         127         117         0         0         0         0         0         0           3         128         118         0         0         0         0         0         0         0           3         129         119         0         0         0         0         0         0         0	0         0	0         0	0         0         0         0         0         64         0         0         24         0         0         0         0         66         0         0         0         0           0	0         0         0         0         0         0         0         0         92         0         360         1286           0         0         0         0         0         0         0         92         0         360         1286           0         0         0         0         0         0         92         0         360         1286           10         0         0         0         0         0         92         0         360         1286           1324         0         0         0         92         0         386         1334
3         130         120         0 <td></td> <td>0         0</td> <td>0         0</td> <td>0 0 0 0 0 0 0 114 0 0 0 0 16 0 260 1124 0 0 0 0 0 0 114 0 0 0 16 0 260 1124</td>		0         0	0         0	0 0 0 0 0 0 0 114 0 0 0 0 16 0 260 1124 0 0 0 0 0 0 114 0 0 0 16 0 260 1124
3         133         123         0 <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0         0</td> <td>0         0</td> <td>0 0 0 0 0 0 0 114 0 0 0 0 16 0 260 1124 0 0 0 0 0 0 34 0 0 0 0 10 10 174 1014</td>	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0         0	0         0	0 0 0 0 0 0 0 114 0 0 0 0 16 0 260 1124 0 0 0 0 0 0 34 0 0 0 0 10 10 174 1014
3         135         125         0         0         0         0         0         0           3         136         126         0	0       0	0         0	0         0         0         0         0         64         0	0         0         0         0         0         34         0         0         0         10         174         1014           0         0         0         0         0         0         0         0         0         10         0         174         1014           0         0         0         0         0         0         0         0         0         174         1014           0         0         0         0         0         0         0         0         0         174         1014
3         138         128         0         0         0         0         0         0           3         139         129         0         0         0         0         0         0	0         0	0         0	0         0         0         0         0         64         0	0 0 0 0 0 0 34 0 0 0 10 10 108 888 0 0 0 0 0 0 14 0 0 0 4 0 82 814
3         140         130         0         0         0         0         0         0           3         141         131         0         0         0         0         0         0         0           3         142         132         0         0         0         0         0         0         0	0         0	0         0	0       0	0         0         0         0         0         0         0         0         4         0         18         618
3         143         133         0         0         0         0         0         0           3         144         134         0         0         0         0         0         0         0           3         144         134         0         0         0         0         0         0         0           3         145         135         0         0         0         0         0         0	0       0	0         0	0       0	0         0         0         0         0         0         0         0         4         0           0         0         0         0         0         0         4         0         18         618           0         0         0         0         0         0         0         4         0         18         618           0         0         0         0         0         0         0         4         0         18         618           0         0         0         0         0         0         4         0         18         618           0         0         0         0         0         0         4         0         18         618           0         0         0         0         0         0         4         0         18         618           0         18         618         618         0         14         0         0         0         4         0
3         146         136         0         0         0         0         0         0           3         147         137         0         0         0         0         0         0	0         0	0         0	0       0	0 0 0 0 0 0 14 0 0 0 4 0 18 618 0 0 0 0 0 0 14 0 0 0 0 4 0 18 618 618
3         148         138         0         38         0         0         0         0           3         149         139         0         18         0         0         0         24           3         150         140         0         18         0         0         0         0	0         0	0         0	0         0	0         0         0         0         0         14         0         0         0         4         0         112         808           0         0         0         0         0         14         0         0         0         4         0         112         808           0         0         0         0         0         0         0         4         0         108         804           0         0         0         0         0         0         0         4         0         96         7800
3         151         141         0         18         0         0         0         0           3         152         142         0         0         0         0         0         0	0         0	0         0	0         0         0         0         0         18         0         0         0         0         0         24         0	0 0 0 0 0 0 0 14 26 0 0 4 0 104 788 0 0 0 0 0 0 14 0 0 22 4 0 74 710 0 0 0 0 0 0 0 17 10 0 0 0 0 0 0 0 0
154         0         0         0         0         0         0           155         0         0         0         0         0         0         0	0         0	0         0	0         0	0         0
156         0         0         0         0         0         0           4         157         143         0         144         0         0         0         0           4         158         144         0         0         0         0         190	0         0	0         0	0         0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4         159         145         0         0         0         0         190           4         160         146         0         0         0         0         0         0         0           4         161         147         0         0         0         0         0         0	0         0         0         0         0         0         0         18         0         0         0         0           0	0         0         0         16         0	0       188         0 <td>0 0 0 0 0 0 14 0 0 0 4 0 788 1460 0 0 0 142 0 14 0 0 0 0 4 0 374 1034</td>	0 0 0 0 0 0 14 0 0 0 4 0 788 1460 0 0 0 142 0 14 0 0 0 0 4 0 374 1034
4         162         148         0         0         0         0         0           4         163         149         0         0         0         0         0         0				
	0         0	98         0         0         224         0	0       0       0       0       0       75       0       0       0       0       172       0       0       0       0       0       0         0       0       0       0       0       0       0       172       0       0       0       0       0       0         0	0         0         142         0         14         0         0         0         4         0         1080         1764           0         0         0         0         0         14         274         0         0         4         0         1442         2126           0         0         0         0         170         4         0         1182         1854
4         164         150         0 <td>0         0         0         0         0         234         0         0         16         0<td>98         0         0         224         0</td><td>0         0         0         0         0         72         0         0         0         0         0         0         0         0         0         0         0         172         0         0         0         0         0         0         0         0         0         0         172         0<td>0         0         0         142         0         14         0         0         0         0         4         0         1080         1764           0         0         0         0         0         14         274         0         0         4         0         1442         2126           0         0         0         0         14         0         0         170         4         0         182         1854           0         0         0         0         14         0         0         0         4         0         828         1476           0         0         0         0         0         0         0         0         4         0         6</td></td></td>	0         0         0         0         0         234         0         0         16         0 <td>98         0         0         224         0</td> <td>0         0         0         0         0         72         0         0         0         0         0         0         0         0         0         0         0         172         0         0         0         0         0         0         0         0         0         0         172         0<td>0         0         0         142         0         14         0         0         0         0         4         0         1080         1764           0         0         0         0         0         14         274         0         0         4         0         1442         2126           0         0         0         0         14         0         0         170         4         0         182         1854           0         0         0         0         14         0         0         0         4         0         828         1476           0         0         0         0         0         0         0         0         4         0         6</td></td>	98         0         0         224         0	0         0         0         0         0         72         0         0         0         0         0         0         0         0         0         0         0         172         0         0         0         0         0         0         0         0         0         0         172         0 <td>0         0         0         142         0         14         0         0         0         0         4         0         1080         1764           0         0         0         0         0         14         274         0         0         4         0         1442         2126           0         0         0         0         14         0         0         170         4         0         182         1854           0         0         0         0         14         0         0         0         4         0         828         1476           0         0         0         0         0         0         0         0         4         0         6</td>	0         0         0         142         0         14         0         0         0         0         4         0         1080         1764           0         0         0         0         0         14         274         0         0         4         0         1442         2126           0         0         0         0         14         0         0         170         4         0         182         1854           0         0         0         0         14         0         0         0         4         0         828         1476           0         0         0         0         0         0         0         0         4         0         6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0       0       0       0       0       234       0       0       16       0	98         0         0         024         0	0       0	0         0         0         142         0         14         0         0         0         0         4         0         1080         1764           0         0         0         0         0         14         274         0         0         4         0         1442         2126           0         0         0         0         14         0         0         170         4         0         182         1854           0         0         0         0         14         0         0         0         4         0         828         1476           0         0         0         0         0         0         0         0         4         0         6
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0         0         0         234         0         0         16         0	98         0         0         024         0	0       0	0         0         0         142         0         14         0         0         0         0         4         0         1080         1764           0         0         0         0         14         274         0         0         4         0         1442         2126           0         0         0         0         14         0         0         0         170         4         0         1822         1476           0         0         0         0         144         0         0         0         4         0         182         1476           0         0         0         0         144         0         0         0         4         0         828         1476           0         0         0         0         0         0         0         4         0         6         828         1476           0         0         0         0         0         0         0         4         0         6         828         1476           0         0         0         0         0         0         4         0         14         0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0         0         0         2.54         0         0         16         0 <td>0       0</td> <td>0         0</td> <td>0         0         0         142         0         14         0         0         0         0         4         0         1764           0         0         0         0         14         274         0         0         4         0         1442         2126           0         0         0         0         14         0         0         0         4         0         1442         2126           0         0         0         0         0         144         0         0         0         4         0         828         1476           0         0         0         0         0         144         0         0         0         4         0         828         1476           0         0         0         0         0         0         0         0         0         4         0         828         1476           0         0         0         0         0         0         0         0         4         0         188         618           0         0         0         0         0         0         0         0         0         0&lt;</td>	0       0	0         0	0         0         0         142         0         14         0         0         0         0         4         0         1764           0         0         0         0         14         274         0         0         4         0         1442         2126           0         0         0         0         14         0         0         0         4         0         1442         2126           0         0         0         0         0         144         0         0         0         4         0         828         1476           0         0         0         0         0         144         0         0         0         4         0         828         1476           0         0         0         0         0         0         0         0         0         4         0         828         1476           0         0         0         0         0         0         0         0         4         0         188         618           0         0         0         0         0         0         0         0         0         0<
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0       0	0       0	0         0	0         0         0         142         0         14         0         0         0         0         4         0         1764           0         0         0         0         0         144         274         0         0         4         0         1442         1442         1442         1442         1442         1442         1442         1442         1442         1442         1442         1442         14533         <
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0       0	0       0	0         0	0         0         0         142         0         14         0         0         0         0         4         0         1764           0         0         0         0         0         144         274         0         0         4         0         1442         1442         1442         1442         1442         1442         1442         1442         1442         1442         1442         1442         14533         <
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	0         0         0         142         0         14         0         0         0         0         4         0         1764           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         170         4         0         1764         182         1854           0         0         0         0         170         4         0         0         0         4         0         1764         182         1854           0         0         0         0         0         0         0         0         4         0         166         168           0         <
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	0         0         0         142         0         14         0         0         0         0         4         0         1764           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         170         4         0         1764         182         1854           0         0         0         0         170         4         0         0         0         4         0         1764         182         1854           0         0         0         0         0         0         0         0         4         0         166         168           0         <
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	0         0         0         142         0         14         0         0         0         0         4         0         1764           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         170         4         0         1764         182         1854           0         0         0         0         170         4         0         0         0         4         0         1764         182         1854           0         0         0         0         0         0         0         0         4         0         166         168           0         <
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	0         0         0         142         0         14         0         0         0         0         4         0         1764           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         170         4         0         1764         182         1854           0         0         0         0         170         4         0         0         0         4         0         1764         182         1854           0         0         0         0         0         0         0         0         4         0         166         168           0         <
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	0         0         0         142         0         14         0         0         0         0         4         0         1764           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         170         4         0         1764         182         1854           0         0         0         0         170         4         0         0         0         4         0         1764         182         1854           0         0         0         0         0         0         0         0         4         0         166         168           0         <
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	0         0         0         142         0         14         0         0         0         0         4         0         1764           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         170         4         0         1764         182         1854           0         0         0         0         170         4         0         0         0         4         0         1764         182         1854           0         0         0         0         0         0         0         0         4         0         166         168           0         <
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	0         0         0         142         0         14         0         0         0         0         4         0         1764           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         170         4         0         1764         182         1854           0         0         0         0         170         4         0         0         0         4         0         1764         182         1854           0         0         0         0         0         0         0         0         4         0         166         168           0         <
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	0         0         0         142         0         14         0         0         0         0         4         0         1764           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         170         4         0         1764         182         1854           0         0         0         0         170         4         0         0         0         4         0         1764         182         1854           0         0         0         0         0         0         0         0         4         0         166         168           0         <
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	0         0	0         0	0         0         0         142         0         14         0         0         0         0         4         0         1764           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         170         4         0         1764         182         1854           0         0         0         0         170         4         0         0         0         4         0         1764         182         1854           0         0         0         0         0         0         0         0         4         0         166         168           0         <
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	N         N	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0	0         0         0         142         0         14         0         0         0         0         4         0         1764           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         144         274         0         0         4         0         1442         1226           0         0         0         0         0         170         4         0         1764         182         1854           0         0         0         0         170         4         0         0         0         4         0         1764         182         1854           0         0         0         0         0         0         0         0         4         0         166         168           0         <

208 0	0	0 0 0	0	0 0 0				0 0		0 0	0	0	0 0	0	0	0 0 0	0 0	0 0	0 0 0	0 0	0 0		0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
5         209         191         0           5         210         192         0	0	0 0 0	0	0 0 0				0 0	0 0 0	0 0	0	0	0 0	0	0	0 0 0	0 0	0 0	0 0 0	0 0	0 0		0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
5 210 192 0 5 211 193 0	0	0 0 0	0	0 0 0				0 0		0 0	0	0	0 0	0	0	0 0 0		0 0	0 0 0	0 0	0 0		0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
5 212 194 0		0 0 0	0	0 0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0		0 0	0	0	0 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
5 213 195 0 5 214 196 0		0 0 0	0	0 0 0				0 0		0 0	0		0 0	0	0	0 0 0		0 0	0 0 0	0 0	0 0		0 0	0 0	0 0		0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
5 215 197 0	0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0	0 0 0	0 0	0	0	0 0	0	0	0 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
5         216         198         0           5         217         199         0	0	0 0 0	0	0 0 0				0 0		0 0	0	0	0 0	0	0	0 0 0	0 0	0 0	0 0 0	0 0	0 0		0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
5 218 200 0	0	0 0 0	0	0 0 0				0 0		0 0	0	0	0 0	0	0	0 0 0		0 0	0 0 0	0 0	0 0		0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
5 219 201 0	0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0	0	0 0	0	0	0 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
5         219         201         0           5         220         202         0           5         221         203         0           5         222         204         0           5         223         205         0		0 0 0	0	0 0 0				0 0		0 0	0	0	0 0	0	0	0 0 0		0 0	0 0 0	0 0	0 0		0 0	0 0	0 0		0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
5 222 204 0		0 0 0	0	0 0 0				0 0	0 0 0	0 0	0	0	0 0	0	0	0 0 0	0 0	0 0	0 0 0	0 0	0 0		0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
5 223 205 0		0 0 0	0	0 0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0	0	0 0	0	0	0 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
5         224         206         0           5         225         207         0	0	0 0 0	0					0 0		0 0	0	0	0 0	0	0			0 0	0 0 0	0 0	0 0		0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0		0 0	0 0	0 0 0	0 0	0
5 226 208 0	0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0	0	0 0	0	0	0 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
5 227 209 0 5 228 210 0		0 0 0	0	0 0 0				0 0		0 0	0	0	0 0	0	0	0 0 0	0 0	0 0	0 0 0	0 0	0 0		0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
5 229 211 0		0 0 0	0	0 0 0				0 0		0 0	0	0	0 0	0	0	0 0 0		0 0	0 0 0	0 0	0 0		0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
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5         231         213         0           5         232         214         0	0	0 0 0	0					0 0		0 0	0	0	0 0	0	0	0 0 0		0 0	0 0 0	0 0	0 0		0 0	0 0	0 0		0 0	0 0 0	0 0		0 0	0 0	0 0 0	0 0	0
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5         236         218         0           5         237         219         0	0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0	0 0 0	0 0	0	0	0 0	0	0	0 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
5         236         218         0           5         237         219         0           5         238         220         0           5         239         221         0	0	0 0 0	0	0 0 0				0 0		0 0	0	0	0 0	0	0	0 0 0	0 0	0 0	0 0 0	0 0	0 0		0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
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5         242         224         0           5         243         225         0	0	0 0 0	0	0 0 0				0 0		0 0	0	0	0 0	0	0	0 0 0		0 0	0 0 0	0 0	0 0		0 0	0 0	0 0		0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
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5         245         227         0           5         246         228         0           5         247         229         0		0 0 0	0							0 0	0	0	0 0	0	0			0 0	0 0 0	0 0	0 0		0 0	0 0	0 0		0 0	0 0 0	0 0		0 0	0 0		0 0	0
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5         252         234         0           5         253         235         0           5         254         236         0           5         255         237         0		0 0 0	0	0 0 0				0 0		0 0	0	0	0 0	0	0	0 0 0		0 0	0 0 0	0 0	0 0		0 0	0 0	0 0		0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
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6         264         242         0           6         265         243         0	0	0 0 0	0	0 0 0				0 0		0 0	0	0	0 0	0	0	0 0 0		0 0	0 0 0	0 0	0 0		0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
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6         271         249         0           6         272         250         0	0	0 0 0	0	0 0 0				0 0		0 0	0	0	0 0	0	0	0 0 0		0 0	0 0 0	0 0	0 0		0 0	0 0	0 0		0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0
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6         278         256         0           6         279         257         0	0	0 0 0	0	0 0 0				0 0		0 0	0	0	0 0	0	0	0 0 0		0 0	0 0 0	0 0	0 0		0 0	0 0	0 0		0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0 0 0 0 0	0 0	0
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2 87	82	460	36 36 36	0 0 0 0 0 0	0 60 0 60 0 60	0 0 0 0 0 0	36 0	0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0	0 0 0 0 0 0		0	0	0 0 0 0	0 0 0	60 60 60 60 60 60	0 0 0	0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	48 48 36	0 0 0 0 0 12	0 0	0 0 0 0 0 0	504 504 504	0 0 0 0 0 0		0 0	0 0 0 0 0 0	0 0 0 0 0 0	12 12 12	0 36 0 36 0 36	0 36 36	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0	0 0 36 0 0 3	0       0       0       0       0       0	0 0 0 0 0 0	0 0 0	0 0 0	564 564 564	0 0	0 0 0 0 0 0	0 0 0	0 130 0 14 0 14
2 89 2 90 2 91	84 85 86	460	36 36 0	0 0 0 0 0 0	0 60 0 60 0 0	0 0 0 0 0 0	36         0           36         0           0         0           0         0	0	0 0	0 0	0	0 0	0		0	0	0		0 0 0	0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	36 36 0	0 0 0 0 0 0	0 0	0 0 0 0 0 0	504 504 432	0 0 0 0		0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0	0 48 0 48 0 12	36 36 36	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	36 0 0	0 36 0	564 564 552	0 0 0 0 36 0	0 0 0 0 0 0	0	0 14 0 14 0 112 0 128
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101         0           102         0           103         0           104         0           3         105         95         460	0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         36	0         0	0         0	0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0	0         0	0         0	0         0	0         0
3         106         96         460           3         107         97         460           3         108         98         460           3         109         99         460           3         109         99         460           3         110         100         460           3         111         101         460	0         0         0         36           0         0         0         0         36           0         0         0         0         36           0         0         0         0         36           0         0         0         0         36           0         0         0         0         36           0         0         0         0         36           0         0         0         0         36	0     0     0     0     0     0     0       0     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0	0         0	0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0	0         0	0         0         108         0         12         0           0         0         108         0         0         12         0           0         0         0         108         0         0         0         12         0           0         0         0         108         0         0         0         12         0           0         0         0         108         36         0         0         12         0           0         0         0         148         36         0         0         12         0           0         0         0         144         36         0         0         12         0           0         0         0         144         36         0         0         12         0	0         0         60         0         0         0         0         0         0         0         0           0         0         60         0	0         12         0         36         0         0         0         0         480         12         0         0         0         744           0         0         36         0         0         0         0         480         12         0         0         0         744           0         0         36         0         0         0         0         480         12         0         0         0         744           0         0         36         0         0         0         0         480         12         0         0         0         744           0         0         36         0         0         0         0         480         12         0         0         0         744           0         0         36         0         0         0         0         480         0         0         12         0         0           0         0         36         0         0         36         36         516         0         0         0         0         0         0         0         0         0         0         0         0
3         112         102         460           3         113         103         460           3         114         104         460           3         115         105         460           3         116         106         460           3         116         106         460           3         117         107         460           3         117         107         460           3         118         108         460	0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0	0         0	0       0	0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0	0         0	0         0         0         108         36         0         0         12         0           0         0         0         168         36         0         0         12         0           0         0         0         168         36         0         0         148         0           0         0         0         180         96         0         0         36         0           0         0         0         180         96         0         0         36         0           0         0         0         180         96         0         0         36         0           0         0         0         180         96         0         0         36         0           0         0         0         180         96         0         0         36         0           0         0         0         180         96         0         0         36         0           0         0         0         144         60         0         0         72         0	0         0         0         60         0	0         0         0         60         0         0         0         36         516         0         0         0         0         828           0         0         0         0         0         36         516         0         0         0         0         0         1110           0         0         60         0         0         0         36         528         0         0         0         1110           0         0         60         0         0         0         36         528         0         0         0         0         1152           0         0         60         0         0         0         36         528         0         0         0         0         1152           0         0         60         0         0         0         36         528         0         0         0         156         0           0         0         0         0         0         36         528         0         0         0         156         0           0         0         0         0         0         0         60         0<
3         119         109         460           3         120         110         460           3         121         111         460           3         122         112         460           3         122         112         460           3         123         113         460           3         123         113         460           3         124         114         460	0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0	0         0	0     0     0     0     0     0       0     0     0     0     0     0       0     0     0     0     0     0       0     0     0     0     0     0       0     0     0     0     0     0       0     0     0     0     0     0       0     0     0     0     0     0       0     0     0     0     0     0       1     0     0     0     0     0	0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0	0         0	0         0         0         72         60         0         0         72         0           0         0         0         72         60         0         0         72         0           0         0         0         72         60         0         0         72         0           0         0         0         72         60         0         0         36         0           0         0         0         72         0         0         60         36         0           0         0         0         72         0         0         60         36         0           0         0         0         72         0         0         60         36         0           0         0         0         72         0         0         60         36         0           0         0         0         72         0         0         96         0	0         0         0         0         0         60         0         0         0         0           0         0         0         0         0         60         0	0         0         0         0         0         60         0         528         0         0         0         1008           0         0         0         0         0         60         0         528         0         0         0         156         0           0         0         0         0         0         60         0         528         0         0         0         156         0           0         0         0         0         0         60         0         528         0         0         0         156         0           0         0         0         0         0         60         0         528         0         0         0         156         0           0         0         0         0         0         60         0         528         0         0         0         156         0           0         0         0         0         60         0         528         0         0         0         156         0           0         0         0         0         0         0         0         528         0
3         125         115         460           3         126         116         460           3         127         117         460           3         128         118         460           3         128         118         460           3         129         119         460           3         130         120         460           3         131         121         460	0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0	0         0	0         0	0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0	0         0	0         0         72         0         0         0         96         0           0         0         0         72         0	0         0         36         0	0         0         0         0         0         0         0         0         228         48         0         0         60         156         0         1008           0         0         0         0         0         0         0         528         48         0         0         60         156         0         1008           0         0         0         0         0         0         0         528         48         0         0         48         156         0         936           0         0         0         0         0         0         0         0         168         0         180         0         936           0         0         0         0         0         0         0         0         180         0         936           0         0         0         0         0         0         0         0         528         0         0         0         180         0           0         0         0         0         0         0         0         0         528         0         0         0         144         0      <
3         132         122         460           3         133         123         460           3         134         124         460           3         135         125         460           3         136         125         460           3         136         126         460           3         137         127         460           3         138         128         460	0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0	0         0	0         0	0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0	0         0	0         0         72         0         0         0         60         0           0         0         72         0         0         0         60         0           0         0         0         72         0         0         0         60         0           0         0         0         72         0         0         0         60         0           0         0         0         72         0         0         0         60         0           0         0         0         72         0         0         0         60         0           0         0         0         72         0         0         0         60         0           0         0         0         72         0         0         0         60         0           0         0         72         0         0         0         60         0           0         0         72         0         0         0         60         0	0         0	0         60         0         0         0         0         0         0         528         0         0         0         144         0         864           0         60         0         0         0         0         0         0         528         0         0         0         144         0         864           0         60         0         0         0         0         0         528         0         0         0         144         0         864           0         60         0         0         0         0         0         516         0         0         0         132         0           0         60         0         0         0         0         0         0         0         132         0           0         60         0         0         0         0         0         0         0         161         0         0         0         132         0           0         60         0         0         0         0         0         0         161         0         0         0         132         0           0
3         139         129         460           3         140         130         460           3         141         131         460           3         141         131         460           3         142         132         460           3         143         133         460           3         143         134         460           3         144         134         460           3         145         135         460	0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0	0     0     0     0     0     0     0       0     0     0     0     0     0     0       0     0     0     0     0     0     0       0     0     0     0     0     0     0       0     0     0     0     0     0     0       0     0     0     0     0     0     0       0     0     0     0     0     0     0       0     0     0     0     0     0     0       0     0     0     0     0     0     0	0         0         0         0         0         0         0         0         0           0	0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0	0         0	0         0         0         72         0         0         60         0           0	0         0	0         0         0         0         0         0         0         480         0         0         0         120         0           0         0         0         0         0         0         0         0         0         0         0         120         0         732           0         0         0         0         0         0         0         0         0         0         0         0         0         120         0         600           0         0         0         0         0         0         0         0         0         0         120         0         600<
3         146         136         460           3         147         137         460           3         148         138         460           3         149         139         460           3         150         140         460           3         151         141         460           3         151         141         460	0         0         0         0         0           0         0         0         0         0           60         0         0         0         0           48         0         0         0         12           48         0         0         0         0           48         0         0         0         0           0         0         0         0         0	0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0	0         0	0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0	0         0	0         0	0         0	0         0         0         0         0         0         0         480         0         0         0         10         60
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           12         0         0         0         12           0         0         0         0         12	0         0	0       0	0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         12         0           0         0         0         12         0         0	0         0	0         0	0     0     0     0     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0     0     0       0     0     12     0     0     0     0     0     0	0         0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0         0         0         0         12           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0	0         0	12         0	0         0         0         12           0         0         0         12           0         0         0         12           0         0         0         12           0         0         0         12           0         0         0         12           0         0         0         12           0         0         0         12           0         0         0         12           0         0         0         12	0         0	0         0         0         0         12         0	0         0         0         12         0	0         0         0         12         0         0         0         0         480         0         0         0         12         660           0         0         0         0         0         12         0         480         0         0         0         12         660           0         0         0         0         0         12         0         480         0         0         0         12         0         680           0         0         0         0         0         0         0         0         12         0         480         0         0         0         12         0         680         0         0         0         12         0         680         0         0         0         12         0         681         0         0         0         12         0         684           0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0	0         0	0         12         0	0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0	0         0	0         0	0         0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4         177         163         460           4         178         164         460           4         179         165         460	0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0	0         0	0         0	0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0	0         0	0         0	0         0	0       0
4         180         166         460           4         181         167         460           4         182         168         460           4         183         169         236           4         184         170         236           4         185         171         236	0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0	0         0         0         0         0         0         0         0           0	0         0         0         0         0         0         0         0         0           0	0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0	0         0	0         0	0         0	0         0
4         187         173         236           4         188         174         236           4         189         175         236           4         190         176         236           4         190         176         236           4         191         177         236           4         191         177         236           4         192         178         236	0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0	0         0	0         0	0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0	0         0	0         0	0         0	0         0
4         194         180         236           4         195         181         236           4         196         182         236           4         197         183         236           4         197         183         236           4         198         184         236           4         198         184         236           4         198         185         236	0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0	0         0	0         0	0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0	0         0	0         0	0         0	0       0
4         202         188         236           4         203         189         236           4         204         190         236           205         0         0           206         0         0	0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0	0         0	0         0         0         0         0         0         0         0           0	0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0	0         0	0         0	0         0	0         0
207         0           208         0           5         209         191         236	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0         0	0       0

5         210         192         236           5         211         193         236	0 0 0		0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0		0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 212 194 236	0 0 0		0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5         213         195         236           5         214         196         236	0 0 0		0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 215 197 236	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5         216         198         236           5         217         199         236	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 217 199 236 5 218 200 236	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 219 201 236	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5         220         202         236           5         221         203         236	0 0 0			0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0		0 0 0 0		0 0 0		0 0 0
5 222 204 40	0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 223 205 40 5 224 206 40	0 0 0			0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0			0 0 0		0 0 0 0		0 0 0	0 0 0	0 0 0
5 225 207 40	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5         226         208         40           5         227         209         0	0 0 0		0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 228 210 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 229 211 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 230 212 0 5 231 213 0	0 0 0			0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0		0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 232 214 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 233 215 0 5 234 216 0	0 0 0			0 0 0 0 0		0 0 0	0 0	0 0 0			0 0	0 0 0 0						0 0 0		0 0 0
5 235 217 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 236 218 0 5 237 219 0			0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0		0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 238 220 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 239 221 0 5 240 222 0	0 0 0		0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5         240         222         0           5         241         223         0	0 0 0	0 0 0 0		0 0 0 0		0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0		0 0 0
5 242 224 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5         243         225         0           5         244         226         0	0 0 0			0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0		0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 245 227 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 246 228 0 5 247 229 0	0 0 0			0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0			0 0 0		0 0 0 0		0 0 0	0 0 0	0 0 0
5 248 230 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5         249         231         0           5         250         232         0	0 0 0		0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 251 233 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 252 234 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 253 235 0 5 254 236 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 255 237 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
5 256 238 0 257 0	0 0 0		0 0 0	0 0 0 0 0		0 0 0	0 0		0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
258 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
259 0 260 0	0 0 0			0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0		0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
6 261 239 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
6 262 240 0 6 263 241 0			0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0		0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
6 264 242 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
6         265         243         0           6         266         244         0	0 0 0		0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0		0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
6 267 245 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
6 268 246 0 6 269 247 0	0 0 0		0 0 0	0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0		0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
6 270 248 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
6 271 249 0 6 272 250 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
6 272 250 0 6 273 251 0	0 0 0	0 0 0 0		0 0 0 0 0		0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0		0 0 0
6 274 252 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
6 275 253 0 6 276 254 0	0 0 0	0 0 0 0				0 0 0 0 0 0	0 0	0 0 0	0 0 0		0 0			0 0 0				0 0 0		0 0 0
6 277 255 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0	0 0 0	0 0 0	0 0 0
6         278         256         0           6         279         257         0	0 0 0 0 0 0			0 0 0 0 0	0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0	0 0 0 0 0 0	0 0	0 0 0	0 0 0		0 0		0 0 0 0					0 0 0		0 0 0
6 280 258 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0		0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0
6 281 259 0 6 282 260 0	0 0 0		0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0		0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0 0 0
0 202 200 0 Total	2178 0 0				3 0 0 0 750 750			0 0 0	0 0 1416	6 0 60 0 0	0 15486 9	06 60 192 1728	0 0 0 648	672 0 708	288 0 642	0 0 720 60	1116 0 0 0	828 630 522		
Year 1	6 0 0	0 306 0	0 78 0 0	72 0 0 48 3	6 0 0 0 192 192	0 0	0 36		0 0 0 6	60 0 36 0	0 0 306	18 0 0 0		0 0	0 0 18		0 0 0 0	300 0	0 0 0 0	0 0 0
Year 2	1956 0 0	0 708 0	0 924 0 0	360 0 0 408 19	20 0 0 0 540 540	0 0	0 2100	0 0 0	0 0 0 135	56 0 24 0	0 0 11676	72 36 36 36	0 0 0 0 60	84 0 372	288 0 96	0 0 312 48	336 0 0 0	72 342 21	678 252 0 0	288 0 0
Year 3 Year 4	204 0 0 12 0 0	0 264 0	0 0 0 0	0 0 0 0 24 0 0 24	0 0 0 0 0 0 0 72 0 0 0 18 18	0 0	0 0 0 120	0 0 0		0 0 0 0	0 0 3492	792 12 144 1632		564 0 312 24 0 24		0 0 372 0	756         0         0         0           24         0         0         0	432 288 24	336         204         0         0           240         12         0         0	144 5622 0
real 4	12 0 0	24 0		24 0 0 24			120					27 12 12 00		24 0 24	0 0 30	0 0 30 12	24 0 0 0	24 0 0		12 1000 0

#### Peak Week

				Base Traffi	ic - Historic (	Counts		Growth Ra	to to 2021		2021 Base Yea	r of Assessment			Growth Ra	ate to Future Year	Future	Year of Asse	ssment	Peak De	evelopment Tra	fic Fut	ture Year + D	evelopment Peak	Develo	pment Traff	fic % Impact (2026/27)
		24 H	Hour	18 H	lour			Growth Ka	le 10 202 1	24 H	our	18	Hour	Future Assessment		1 - 2026/27)	24 Hour		18 Hour	24 H	our 18 H	our 2	4 Hour	18 Hour	24	Hour	18 Hour
Receptor				<b>T</b> .(1)				Total Vehicles	HGVs	<b>T</b>			HGV	Year	Total Vehicles	HGVs								T			Turk
Number 1	Receptor Location Ferry Road	Total	HGV	Total 2 ATC	HGV	Speed (85th%)	Base Year 2022	Total vehicles	HOVS	Total 1925	HGV 314	Total 1907	310		1.0746	1.075		GV Tot		32 3	SV LV Total			Total HG			Total HGV
2	Church Lane	0950	1106	9644	1072	41.9	2022	1.0607	1.027	10458	1135	10229	1101	2026 2026	1.0746	1.075		221 109	3 334	127 0	2 0 32 ) 137 137	32 2101 0 1137		2081 366 11129 118		9.5%	
3	Ford Road	9039	253	5869	237	25.6	2017	1.0305	1.027	6209	255	6048	239	2026	1.0746	1.075		221 109	0 257	100 2	2 77 109	32 6782		6600 280	1.6%	11.70/	
4	A27 West of Arundel	0020	1302	22781	1159	40	2019	1.0305	1.0075	24338	1312	23476	1167	2026	1.0746	1.075	26154 1	410 252	28 1255	67 2	6 31 67	36 2622		25295 129		2.6%	
5	A259 West of Wick	23010	857	11083	809	40	2019	1.0305	1.0075	24338	863	11421	815	2026	1.0746	1.075	24805 9	232		257 2	3 233 257			12529 899		2.5%	
6	A284 North of Wick	422400	551	12779	490	43	2019	1.0305	1.0075	13652	555	13168	494	2026	1.0746	1.075		i97 141		107 2		23 14778				3.9%	
0	A284 Lyminster	13246	692	12/79	490 651	42	2019	1.0305	1.0075	13052	698	13100	656	2026	1.0746	1.075		50 141		137 5		53 1513		14258 554 14616 758		7.1%	
8	Crossbush Lane, Crossbush	13040	692	13075	1001	42	2019	1.0305	1.0075	13939	090	13473	000	2020	1.0746	1.075	0	0 144	/8 /05	137 5	3 84 137	0 0	8 803	14010 /30	#DIV/01	7.170	
9	A27. Arundel Station	00704	1613	31574	4.425	40	2019	1.0305	1.0075	33732	1625	32538	1446	2026	1.0746	1.075		747 349	65 1554	92 5	1 41 92	51 3634	1 1798	35057 160	#DIV/0!	2.9%	
9 10	Crossbush Lane, Warning Camp	32734		2 ATC	1435	40		1.0305	1.0075	33732	1625	32038	1446	2026	1.0746	1.075	0	0 0	00 1004	92 5	1 41 92	0 0	1 1798	35057 160	0.3%	2.9%	
11	A27. South of Crossbush	24020	1757	2 ATC 30805	1563	60	2022 2019	1.0305	1.0075	32910	1770	31744	1575	2026	1.0746	1.075	-	903 341	12 1693		7 126 213		8 1990	34325 178	#DIV/0!	4.6%	
11	A27, South of Crossbush A27 High Salvington	31930	923	21969	821	30	2019	1.0305	1.0075	23473	930	22641	827	2026	1.0746	1.075	35365 13	903 341	12 1093	148 9		97 2547		24574 987	0.6%	9.7%	
		22770	1012		900		2019		1.0075	31719		30595	907			1.075	20323 10	000 244	20 035	140 9				24574 987	0.6%	9.7%	
<u>13</u> 14	A24/A27 Offington (Warren Road) A24 Findon	30777		29687	900 558	40 40		1.0306			1020 637	25946	907 567	2026	1.0788	1.075	34218 10	096 330	Jb 975	140 1	18 22 140	118 34358	· · · · · · · · · · · · · · · · · · ·	33146 109	0.4%	10.8%	
14	A24 Findon A280 Long Furlong	25731	627	24820 2 ATC	558	40	2018 2022	1.0454	1.016	26899 18580	3653	17883	3479	2026 2026	1.0788 1.0788	1.075	29019 6 20044 39	85 279	91 609	103 2	1 83 103 4 75 108	21 2912 34 2015		28094 630 19400 377		3.0%	
15	A280 Long Furiong A283 West of A24	04077			727		2022	1.0306	1.0075	22649	755	22028	732	2026	1.0788	1.075	20044 3	927 192	3/40	106 3							
10	A283 East of A24	21977		21374 2 ATC	121	41 52.60	2019	1.0306	1.0075	11430	2326	11295	2292	2026	1.0788	1.075		12 237 543 122		400	6 75 81 3 174 182	6 24513 8 12604		23845 794 12457 251		0.8%	
17	B2135. South of Ashurst	2444	105	3399	104	52.00 48	2022	1.0306	1.0075	3550	2326	3502	105	2027	1.0868	1.093		16 380		162 0	0 0	0 3858		3807 115	1.070	0.3%	
20	A283. Stevning	3444	585	20230	570	46 52	2019	1.0306	1.0075	21112	589	20849	574	2027	1.0868	1.093		33 224		0 0		0 22776		22491 617		0.0%	
20	A263, Steyning A24. South of A272	20460	1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	2026	1.0788	1.075		772 377		93 (		0 3954		37885 160		0.0%	
21	B2116 Patridge Green Road	6274	362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	2020	1.0868	1.073		198 701	52 1004	22 (	) 22 22	0 7161	_	7037 388		0.0%	
22	A281, South Shermanbury	7720	341	7652	334	40	2013	1.0454	1.016	8090	346	7999	340	2027	1.0868	1.093	9702 3	78 860	3 300	22 (	) 22 22	0 8814		9715 371	0.3%	0.0%	
23	A281, South of Cowfold	6094	141	5866	125	30	2018	1.0306	1.0075	6267	142	6045	126	2027	1.0868	1.093	6811 1	FE 657	0 120	22 (	22 22	0 6811		6570 138	0.2%	0.0%	
24	A281, South of Cowfold A281, Cowfold Center	0001	991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	2027	1.0868	1.093		091 241	0 130 39 971	106 1	8 88 106	18 25183		24295 989	0.070	1.7%	
25	A272. Station Road. Cowfold	16004	745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	2027	1.0868	1.093		241		100 1		18 1903		18363 748		2.2%	
20	Wineham Lane, South of A272	953	145	823	14	60	2019	1.0306	1.0075	879	16	848	14	2027	1.0788	1.033	948	17 91		30 1	2 18 30	12 978		945 28	3.2%	71.6%	
29	A272, West of A23	16990	724	16291	644	40	2019	1.0306	1.0075	17406	729	16789	649	2020	1.0868	1.073		97 182		156 4		48 19073		18403 757	0.270	6.0%	
30	A23, North of the A272	71894	4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	2027	1.0868	1.093		431 776		54 1	8 36 54	18 80579		77727 396		0.4%	
31	B2188, Savers Common	11004		2 ATC	0001	37.6	2013	1.0000	1.0070	7356	1497	7212	1461	2027	1.0868	1.093		636 783		0 1		0 7995		7838 159	0.170	0.4%	
32	B2116, Henfield Road, Albourne	2147	149	3036	133	30	2022	1.0306	1.0075	3243	1457	3128	134	2027	1.0868	1.093		64 340				0 3525		3400 146	0.070	0.0%	
32	A23. North of the A272	79611	3118	75826	2774	60	2019	1.0306	1.0075	3243 81016	3141	78147	2795	2027	1.0868	1.093		64 340 434 849		143 9				85073 314		2.6%	
33	A23, Notif of the A272 A27, West of A23	65068	2421	62763	2174	60	2019	1.0306	1.0075	67059	2439	64684	2195	2027	1.0868	1.093	72880 24	666 700	30 3033	161 4/	0 55 145	107 7304		70459 247		4.0%	
34	A27, West of A23 A27, East of A23	71173	2421	68652	2154	60	2019	1.0306	1.0075	73351	2439	70753	2557	2027	1.0868	1.093	70718 20	141 768	23/2	76 4	57 00 101	107 7304	2113	76970 283	0.2%	1.4%	
36	A27, East of A23 A259, West of Church Street	25925	548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	2007 491	2027	1.0746	1.093	28600 5	i41 700	2/90	38 4		0 2864	7 602	27633 537	0.1%	1.4%	
30	A259 East of Wick	23033			400	40	2019		1.0075	25512	473	23680	491	2026	1.0746	1.075	27415 5	94 275 08 264	14 450	05 0	29 36	0 2750	n 502		0.170	1.3%	
37	A259 East OF WICK	24/5/	469	23880	417	40	2019	1.0305	1.0075	20012	4/3	24608	420	2026	1.0746	1.075	2/415 5	608 264	44 452	60 (	J 60 85	0 2750	0 508	26529 452	0.3%	0.0%	

#### Section 1

				Base Traffic	c - Historic (	Counts		Growth Ra		20	21 Base Y	ear of Assessm	ient		Growth R	ate to Future Year	Fu	uture Year	of Assessm	nent	P	eak Develo	opment Traf	fic	Futur	re Year + D	)evelopment	t Peak	Develop	ment Traffi	c % Impact (2026/27)
		24 H	Hour	18 He	our			Growth Ra	ate to 2021	24 Hou	r	18	Hour	Future Assessment	(202	21 - 2026/27)	24	Hour	18	Hour	2	4 Hour	18	Hour	24	Hour	18	lour	24	lour	18 Hour
Receptor								T	1101/-					Year	Total	1101/-														[	
Number	Receptor Location	Total	HGV	Total	HGV	Speed (85th%)	Base Year	Total Vehicles	HGVs	Total	HGV	Total	HGV		Vehicles	HGVs	Total	HGV	Total	HGV	Total		LV Total	_		HGV	Total	HGV	Total	HGV	Total HGV
1	Ferry Road			2 ATC		60.0	2022			1925	314	1907	310	2026	1.0746	1.075	2069	338	2049	334	12	12		12		349	2060	345	0.6%	3.4%	
2	Church Lane	9859	1106	9644	1072	41.9	2017	1.0607	1.027	10458	1135	10229	1101	2026	1.0746	1.075	11238	1221	10993	1183	117	0	117 117	0	11355	1221	11109	1183	1.0%	0.0%	
3	Ford Road	6025	253	5869	237	25.6	2019	1.0305	1.0075	6209	255	6048	239	2026	1.0746	1.075	6672	274	6499	257	135	51	84 135	51	6808	325	6634	308	2.0%	18.7%	
4	A27 West of Arundel	23618	1302	22781	1159	40	2019	1.0305	1.0075	24338	1312	23476	1167	2026	1.0746	1.075	26154	1410	25228	1255	63	33	30 63	33	26217	1443	25291	1288	0.2%	2.4%	
5	A259 West of Wick	22400	857	11083	809	43	2019	1.0305	1.0075	23083	863	11421	815	2026	1.0746	1.075	24805	928	12273	876	192	8 1	184 192	8	24997	936	12465	885	0.8%	0.9%	
6	A284 North of Wick	13248	551	12779	490	30	2019	1.0305	1.0075	13652	555	13168	494	2026	1.0746	1.075	14671	597	14151	531	8	8	0 8	8	14679	605	14159	539	0.1%	1.4%	
7	A284 Lyminster	13546	692	13075	651	42	2019	1.0305	1.0075	13959	698	13473	656	2026	1.0746	1.075	15000	750	14478	705	34	34	0 34	34	15034	784	14512	738	0.2%	4.5%	
8	Crossbush Lane, Crossbush						2019										0	0	0	0	0	0	0 0	0	0	0	0	0	#DIV/0!		
9	A27, Arundel Station	32734	1613	31574	1435	40	2019	1.0305	1.0075	33732	1625	32538	1446	2026	1.0746	1.075	36249	1747	34965	1554	98	56	42 98	56	36347	1803	35063	1611	0.3%	3.2%	
10	Crossbush Lane, Warning Camp		2022	2 ATC			2022										0	0	0	0	0	0	0 0	0	0	0	0	0	#DIV/0!		
11	A27, South of Crossbush	31936	1757	30805	1563	60	2019	1.0305	1.0075	32910	1770	31744	1575	2026	1.0746	1.075	35365	1903	34112	1693	117	76	42 117	76	35483	1979	34230	1769	0.3%	4.0%	
12	A27 High Salvington	22776	923	21969	821	30	2019	1.0306	1.0075	23473	930	22641	827	2026	1.0788	1.075	25323	1000	24426	890	120	96	24 120	96	25442	1096	24545	985	0.5%	9.6%	
13	A24/A27 Offington (Warren Road)	30777	1012	29687	900	40	2019	1.0306	1.0075	31719	1020	30595	907	2026	1.0788	1.075	34218	1096	33006	975	120	96	24 120	96	34338	1192	33126	1071	0.3%	8.7%	
14	A24 Findon	25731	627	24820	558	40	2018	1.0454	1.016	26899	637	25946	567	2026	1.0788	1.075	29019	685	27991	609	0	0	0 0	0	29019	685	27991	609	0.0%	0.0%	
15	A280 Long Furlong		2022	2 ATC		40.0	2022			18580	3653	17883	3479	2026	1.0788	1.075	20044	3927	19292	3740	46	28	18 46	28	20090	3955	19338	3768	0.2%	0.7%	
16	A283 West of A24	21977	750	21374	727	41	2019	1.0306	1.0075	22649	755	22028	732	2026	1.0788	1.075	24434	812	23764	787	71	0	71 71	0	24505	812	23835	787	0.3%	0.0%	
17	A283 East of A24		2022	2 ATC		52.60	2022			11430	2326	11295	2292	2027	1.0868	1.093	12422	2543	12275	2506	38	0	38 38	0	12460	2543	12313	2506	0.3%	0.0%	
19	B2135, South of Ashurst	3444	105	3399	104	48	2019	1.0306	1.0075	3550	106	3502	105	2027	1.0868	1.093	3858	116	3807	115	0	0	0 0	0	3858	116	3807	115	0.0%	0.0%	
20	A283, Steyning	20485	585	20230	570	52	2019	1.0306	1.0075	21112	589	20849	574	2026	1.0788	1.075	22776	633	22491	617	0	0	0 0	0	22776	633	22491	617	0.0%	0.0%	
21	A24, South of A272	35481	1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	2026	1.0788	1.075	39448	1772	37792	1604	15	0	15 15	0	39464	1772	37807	1604	0.0%	0.0%	
22	B2116 Patridge Green Road	6374	362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	2027	1.0868	1.093	7140	398	7015	388	36	0	36 36	0	7175	398	7051	388	0.5%	0.0%	
23	A281, South Shermanbury	7739	341	7652	334	40	2018	1.0454	1.016	8090	346	7999	340	2027	1.0868	1.093	8792	378	8693	371	36	0	36 36	0	8828	378	8729	371	0.4%	0.0%	
24	A281, South of Cowfold	6081	141	5866	125	30	2019	1.0306	1.0075	6267	142	6045	126	2027	1.0868	1.093	6811	155	6570	138	0	0	0 0	0	6811	155	6570	138	0.0%	0.0%	
25	A281, Cowfold Center	22389	991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	2027	1.0868	1.093	25077	1091	24189	971	6	0	6 6	0	25083	1091	24194	971	0.0%	0.0%	
26	A272, Station Road, Cowfold	16904	745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	2027	1.0868	1.093	18933	820	18263	730	0	0	0 0	0	18933	820	18263	730	0.0%	0.0%	
27	Wineham Lane, South of A272	853	16	823	14	60	2019	1.0306	1.0075	879	16	848	14	2026	1.0788	1.075	948	17	915	15	0	0	0 0	0	948	17	915	15	0.0%	0.0%	
29	A272, West of A23	16889	724	16291	644	40	2019	1.0306	1.0075	17406	729	16789	649	2027	1.0868	1.093	18917	797	18247	709	6	0	6 6	0	18922	797	18252	709	0.0%	0.0%	
30	A23, North of the A272	71894	4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	2027	1.0868	1.093	80525	4431	77673	3943	3	0	3 3	0	80528	4431	77676	3943	0.0%	0.0%	
31	B2188, Sayers Common		2022	2 ATC		37.6	2022			7356	1497	7212	1461	2027	1.0868	1.093	7995	1636	7838	1597	0	0	0 0	0	7995	1636	7838	1597	0.0%	0.0%	
32	B2116, Henfield Road, Albourne	3147	149	3036	133	30	2019	1.0306	1.0075	3243	150	3128	134	2027	1.0868	1.093	3525	164	3400	146	0	0	0 0	0	3525	164	3400	146	0.0%	0.0%	
33	A23, North of the A272	78611	3118	75826	2774	60	2019	1.0306	1.0075	81016	3141	78147	2795	2027	1.0868	1.093	88049	3434	84930	3055	80	65	14 80	65	88128	3499	85010	3121	0.1%	1.9%	
34	A27, West of A23	65068	2421	62763	2154	60	2019	1.0306	1.0075	67059	2439	64684	2170	2027	1.0868	1.093	72880	2666	70298	2372	121	92	29 121	92	73001	2758	70419	2464	0.2%	3.4%	
35	A27, East of A23	71173	2852	68652	2538	60	2019	1.0306	1.0075	73351	2873	70753	2557	2027	1.0868	1.093	79718	3141	76894	2795	41	26	15 41	26	79759	3167	76935	2821	0.1%	0.8%	
36	A259, West of Church Street	25835	548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	491	2026	1.0746	1.075	28609	594	27596	528	28	3	25 28	3	28637	597	27624	531	0.1%	0.5%	
37	A259 East of Wick	24757	469	23880	417	40	2019	1.0305	1.0075	25512	473	24608	420	2026	1.0746	1.075	27415	508	26444	452	80	0	80 80	0	27495	508	26524	452	0.3%	0.0%	

### Section 2

				Base Traffi	ic - Historic C	ounts		Counth D	ate to 2021	20	21 Base Y	ear of Assessm	nent		Growth R	ate to Future Year	F	uture Year	of Assessi	ment	F	eak Deve	elopment Tra	affic	Futu	ure Year + D	Developmen	Peak	Developme	ent Traffic %	Impact (2026/27)
		24 H	Hour	18 H	lour	Speed (85th%)		Growth Ra	ate to 2021	24 Hou	r	18	Hour	Future Assessment		21 - 2026/27)	24	Hour	18	B Hour	2	4 Hour	1	8 Hour	24	Hour	18	lour	24 Hou	ır	18 Hour
Receptor								Total Vakialas	HGVs					Year	Total Vehicles	1101/-											-				
Number	Receptor Location	Total	HGV	Total	HGV		Base Year	Total Vehicles	HGVS	Total	HGV	Total	HGV			HGVs	Total	HGV	Total	_	Total	HGV	LV Tot	al HGV	_	HGV	Total	HGV			otal HGV
1	Ferry Road		-	2 ATC		60.0	2022			1925	314	1907	310	2026	1.0746	1.075	2069	338	2049	334	0	0	0 0	0	2069	338	2049	334		0.0%	
2	Church Lane	9859	1106	9644	1072	41.9	2017	1.0607	1.027	10458	1135	10229	1101	2026	1.0746	1.075	11238		10993	1183	0	0	0 0	0	11238	1221	10993	1183	0.0%	0.0%	
3	Ford Road	6025	253	5869	237	25.6	2019	1.0305	1.0075	6209	255	6048	239	2026	1.0746	1.075	6672	274	6499	257	0	0	0 0	0	6672	274	6499	257	0.0%	0.0%	
4	A27 West of Arundel	23618	1302	22781	1159	40	2019	1.0305	1.0075	24338	1312	23476	1167	2026	1.0746	1.075	26154	1410	25228	1255	7	1	5 7	1	26161	1412	25234	1256		0.1%	
5	A259 West of Wick	22400	857	11083	809	43	2019	1.0305	1.0075	23083	863	11421	815	2026	1.0746	1.075	24805	928	12273	876	9	0	9 9	0	24815	928	12282	876		0.0%	
6	A284 North of Wick	13248	551	12779	490	30	2019	1.0305	1.0075	13652	555	13168	494	2026	1.0746	1.075	14671	597	14151	531	34	0	34 34	0	14704	597	14184	531		0.0%	
7	A284 Lyminster	13546	692	13075	651	42	2019	1.0305	1.0075	13959	698	13473	656	2026	1.0746	1.075	15000	750	14478	705	34	0	34 34	0	15034	750	14512	705		0.0%	
8	Crossbush Lane, Crossbush						2019										0	0	0	0	0	0	0 0	0	0	0	0	0		0.0%	
9	A27, Arundel Station	32734	1613	31574	1435	40	2019	1.0305	1.0075	33732	1625	32538	1446	2026	1.0746	1.075	36249	1747	34965	1554	7	1	5 7	1	36256	1748	34972	1556		0.1%	
10	Crossbush Lane, Warning Camp		-	2 ATC			2022										0	0	0	0	0	0	0 0	0	0	0	0	0	0.0%	0.0%	
11	A27, South of Crossbush	31936	1757	30805	1563	60	2019	1.0305	1.0075	32910	1770	31744	1575	2026	1.0746	1.075	35365	1903	34112	1693	40	1	39 40	1	35405	1904	34153	1695	0.1%	0.1%	
12	A27 High Salvington	22776	923	21969	821	30	2019	1.0306	1.0075	23473	930	22641	827	2026	1.0788	1.075	25323	1000	24426	890	0	0	0 0	0	25323	1000	24426	890	0.0%	0.0%	
13	A24/A27 Offington (Warren Road)	30777	1012	29687	900	40	2019	1.0306	1.0075	31719	1020	30595	907	2026	1.0788	1.075	34218	1096	33006	975	4	4	0 4	4	34222	1100	33010	979	0.0%	0.3%	
14	A24 Findon	25731	627	24820	558	40	2018	1.0454	1.016	26899	637	25946	567	2026	1.0788	1.075	29019	685	27991	609	65	4	62 65	4	29084	689	28056	613	0.2%	J.5%	
15	A280 Long Furlong		202	2 ATC		40.0	2022			18580	3653	17883	3479	2026	1.0788	1.075	20044	3927	19292	3740	43	4	39 43	4	20086	3930	19334	3744	0.2%	0.1%	
16	A283 West of A24	21977	750	21374	727	41	2019	1.0306	1.0075	22649	755	22028	732	2026	1.0788	1.075	24434	812	23764	787	128	5	123 12	8 5	24562	817	23891	792	0.5%	0.6%	
17	A283 East of A24		202	2 ATC		52.60	2022			11430	2326	11295	2292	2027	1.0868	1.093	12422	2543	12275	2506	260	0	260 26	0 0	12682	2543	12535	2506	2.1%	0.0%	
19	B2135, South of Ashurst	3444	105	3399	104	48	2019	1.0306	1.0075	3550	106	3502	105	2027	1.0868	1.093	3858	116	3807	115	0	0	0 0	0	3858	116	3807	115	0.0%	0.0%	
20	A283, Steyning	20485	585	20230	570	52	2019	1.0306	1.0075	21112	589	20849	574	2026	1.0788	1.075	22776	633	22491	617	0	0	0 0	0	22776	633	22491	617	0.0%	0.0%	
21	A24, South of A272	35481	1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	2026	1.0788	1.075	39448	1772	37792	1604	72	0	72 72	0	39521	1772	37864	1604	0.2%	J.0%	
22	B2116 Patridge Green Road	6374	362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	2027	1.0868	1.093	7140	398	7015	388	47	12	36 47	12	7187	410	7063	400	0.7%	2.9%	
23	A281, South Shermanbury	7739	341	7652	334	40	2018	1.0454	1.016	8090	346	7999	340	2027	1.0868	1.093	8792	378	8693	371	43	7	36 43	7	8835	385	8736	378	0.5%	1.9%	
24	A281, South of Cowfold	6081	141	5866	125	30	2019	1.0306	1.0075	6267	142	6045	126	2027	1.0868	1.093	6811	155	6570	138	4	4	0 4	4	6815	160	6574	143	0.1%	2.8%	
25	A281, Cowfold Center	22389	991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	2027	1.0868	1.093	25077	1091	24189	971	11	0	11 11	0	25088	1091	24199	971	0.0%	0.0%	
26	A272, Station Road, Cowfold	16904	745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	2027	1.0868	1.093	18933	820	18263	730	11	0	11 11	0	18944	820	18273	730	0.1%	J.0%	
27	Wineham Lane, South of A272	853	16	823	14	60	2019	1.0306	1.0075	879	16	848	14	2026	1.0788	1.075	948	17	915	15	0	0	0 0	0	948	17	915	15	0.0%	0.0%	
29	A272, West of A23	16889	724	16291	644	40	2019	1.0306	1.0075	17406	729	16789	649	2027	1.0868	1.093	18917	797	18247	709	11	4	7 11	4	18928	802	18258	714	0.1%	0.6%	
30	A23, North of the A272	71894	4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	2027	1.0868	1.093	80525	4431	77673	3943	10	4	6 10	4	80536	4436	77683	3947	0.0%	0.1%	
31	B2188, Sayers Common		202	2 ATC		37.6	2022			7356	1497	7212	1461	2027	1.0868	1.093	7995	1636	7838	1597	0	0	0 0	0	7995	1636	7838	1597	0.0%	0.0%	
32	B2116, Henfield Road, Albourne	3147	149	3036	133	30	2019	1.0306	1.0075	3243	150	3128	134	2027	1.0868	1.093	3525	164	3400	146	0	0	0 0	0	3525	164	3400	146	0.0%	0.0%	
33	A23, North of the A272	78611	3118	75826	2774	60	2019	1.0306	1.0075	81016	3141	78147	2795	2027	1.0868	1.093	88049	3434	84930	3055	9	6	3 9	6	88057	3440	84938	3061	0.0%	0.2%	
34	A27, West of A23	65068	2421	62763	2154	60	2019	1.0306	1.0075	67059	2439	64684	2170	2027	1.0868	1.093	72880	2666	70298	2372	9	4	5 9	4	72889	2670	70307	2376	0.0%	0.1%	
35	A27, East of A23	71173	2852	68652	2538	60	2019	1.0306	1.0075	73351	2873	70753	2557	2027	1.0868	1.093	79718	3141	76894	2795	7	4	3 7	4	79725	3145	76901	2799	0.0%	0.1%	
36	A259, West of Church Street	25835	548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	491	2026	1.0746	1.075	28609	594	27596	528	9	0	9 9	0	28618	594	27605	528	0.0%	0.0%	
37	A259 East of Wick	24757	469	23880	417	40	2019	1.0305	1.0075	25512	473	24608	420	2026	1.0746	1.075	27415	508	26444	452	12	0	12 12	0	27427	508	26456	452	0.0%	0.0%	

#### Section 3

		1		Base Traffic	c - Historic (	Counts		Growth Ra	1. 1. 2024	20	21 Base Y	ear of Assessr	nent		Growth Ra	ate to Future Year	Fu	iture Year o	of Assessme	ent	Pe	ak Develop	ment Traffic	2	Futur	e Year + De	evelopment	Peak	Developme	ant Traffic ?	% Impact (2026/27)
		24 -	Hour	18 Ho	our			Growth Ra	te to 2021	24 Hou	ır	18	Hour	Future Assessment		1 - 2026/27)	24 H	Hour	18 H	Hour	24	Hour	18 H	our	24	Hour	18 H	our	24 Hou	Jr	18 Hour
Receptor								Tetal Vahialaa	HGVs					Year	Total Vehicles	1101/2															
Number	Receptor Location	Total	HGV	Total	HGV	Speed (85th%)	Base Year	Total Vehicles	HGVS	Total	HGV	Total	HGV	0000		HGVs	Total	HGV	Total	HGV	Total	HGV L	_	HGV	Total	HGV		HGV			Total HGV
1	Ferry Road	0050	-	2 ATC	4070	60.0	2022	4 0007	4.007	1925	314	1907	310	2026	1.0746	1.075	2069	338	2049	334	0	0 0	) 0	0	2069	338	2049	334		0.0%	
2	Church Lane	9859	1106	9644	1072	41.9	2017	1.0607	1.027	10458	1135	10229	1101	2026	1.0746	1.075	11238	1221	10993	1183	0	0 0	0	0	11238	1221	10993	1183		0.0%	
3	Ford Road	6025	253	5869	237	25.6	2019	1.0305	1.0075	6209	255	6048	239	2026	1.0746	1.075	6672	274	6499	257	0	0 0	0 0	0	6672	274	6499	257		0.0%	
4	A27 West of Arundel	23618	1302	22781	1159	40	2019	1.0305	1.0075	24338	1312	23476	1167	2026	1.0746	1.075	26154	1410	25228	1255	32	32 0	) 32	32	26186	1442	25260	1287	0.1%	2.3%	
5	A259 West of Wick	22400	857	11083	809	43	2019	1.0305	1.0075	23083	863	11421	815	2026	1.0746	1.075	24805	928	12273	876	0	0 0	) 0	0	24805	928	12273	876	0.0%	0.0%	
6	A284 North of Wick	13248	551	12779	490	30	2019	1.0305	1.0075	13652	555	13168	494	2026	1.0746	1.075	14671	597	14151	531	9	0 9	9	0	14679	597	14160	531		0.0%	
7	A284 Lyminster	13546	692	13075	651	42	2019	1.0305	1.0075	13959	698	13473	656	2026	1.0746	1.075	15000	750	14478	705	9	0 9	9	0	15009	750	14487	705		0.0%	
8	Crossbush Lane, Crossbush						2019										0	0	0	0	0	0 0	) 0	0	0	0	0	0	0.0%	0.0%	
9	A27, Arundel Station	32734	1613	31574	1435	40	2019	1.0305	1.0075	33732	1625	32538	1446	2026	1.0746	1.075	36249	1747	34965	1554	32	32 0	) 32	32	36281	1779	34997	1587	0.1%	1.9%	
10	Crossbush Lane, Warning Camp		2022	2 ATC			2022										0	0	0	0	0	0 0	0 0	0	0	0	0	0	0.0%	0.0%	
11	A27, South of Crossbush	31936	1757	30805	1563	60	2019	1.0305	1.0075	32910	1770	31744	1575	2026	1.0746	1.075	35365	1903	34112	1693	41	32 9	9 41	32	35406	1935	34154	1726	0.1%	1.7%	
12	A27 High Salvington	22776	923	21969	821	30	2019	1.0306	1.0075	23473	930	22641	827	2026	1.0788	1.075	25323	1000	24426	890	0	0 0	0 0	0	25323	1000	24426	890	0.0%	0.0%	
13	A24/A27 Offington (Warren Road)	30777	1012	29687	900	40	2019	1.0306	1.0075	31719	1020	30595	907	2026	1.0788	1.075	34218	1096	33006	975	0	0 0	) 0	0	34218	1096	33006	975	0.0%	0.0%	
14	A24 Findon	25731	627	24820	558	40	2018	1.0454	1.016	26899	637	25946	567	2026	1.0788	1.075	29019	685	27991	609	26	0 2	6 26	0	29045	685	28017	609	0.1%	0.0%	
15	A280 Long Furlong		2022	2 ATC		40.0	2022			18580	3653	17883	3479	2026	1.0788	1.075	20044	3927	19292	3740	43	34 9	43	34	20087	3961	19335	3774	0.2%	0.9%	
16	A283 West of A24	21977	750	21374	727	41	2019	1.0306	1.0075	22649	755	22028	732	2026	1.0788	1.075	24434	812	23764	787	0	0 0	) 0	0	24434	812	23764	787	0.0%	0.0%	
17	A283 East of A24		2022	2 ATC		52.60	2022			11430	2326	11295	2292	2027	1.0868	1.093	12422	2543	12275	2506	23	0 23	3 23	0	12445	2543	12298	2506	0.2%	0.0%	
19	B2135, South of Ashurst	3444	105	3399	104	48	2019	1.0306	1.0075	3550	106	3502	105	2027	1.0868	1.093	3858	116	3807	115	0	0 0	0 0	0	3858	116	3807	115	0.0%	0.0%	
20	A283, Steyning	20485	585	20230	570	52	2019	1.0306	1.0075	21112	589	20849	574	2026	1.0788	1.075	22776	633	22491	617	0	0 0	0 0	0	22776	633	22491	617	0.0%	0.0%	
21	A24, South of A272	35481	1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	2026	1.0788	1.075	39448	1772	37792	1604	90	32 5	8 90	32	39538	1804	37882	1637	0.2%	1.8%	
22	B2116 Patridge Green Road	6374	362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	2027	1.0868	1.093	7140	398	7015	388	4	4 0	) 4	4	7143	402	7019	392	0.1%	0.9%	
23	A281, South Shermanbury	7739	341	7652	334	40	2018	1.0454	1.016	8090	346	7999	340	2027	1.0868	1.093	8792	378	8693	371	6	6 0	) 6	6	8798	384	8699	377	0.1%	1.6%	
24	A281, South of Cowfold	6081	141	5866	125	30	2019	1.0306	1.0075	6267	142	6045	126	2027	1.0868	1.093	6811	155	6570	138	4	4 0	) 4	4	6815	159	6573	142	0.1%	2.3%	
25	A281, Cowfold Center	22389	991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	2027	1.0868	1.093	25077	1091	24189	971	159	32 12	27 159	32	25236	1124	24348	1003	0.6%	3.0%	
26	A272, Station Road, Cowfold	16904	745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	2027	1.0868	1.093	18933	820	18263	730	159	32 12	27 159	32	19093	853	18422	762	0.8%	3.9%	
27	Wineham Lane, South of A272	853	16	823	14	60	2019	1.0306	1.0075	879	16	848	14	2026	1.0788	1.075	948	17	915	15	70	41 2	9 70	41	1019	59	985	57	7.4% 2	37.8%	
29	A272, West of A23	16889	724	16291	644	40	2019	1.0306	1.0075	17406	729	16789	649	2027	1.0868	1.093	18917	797	18247	709	254	89 16	6 254	89	19171	886	18501	798	1.3% 1	11.1%	
30	A23, North of the A272	71894	4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	2027	1.0868	1.093	80525	4431	77673	3943	85	36 4	9 85	36	80610	4467	77758	3979	0.1%	0.8%	
31	B2188, Sayers Common		2022	2 ATC		37.6	2022			7356	1497	7212	1461	2027	1.0868	1.093	7995	1636	7838	1597	0	0 0	) 0	0	7995	1636	7838	1597	0.0%	0.0%	
32	B2116, Henfield Road, Albourne	3147	149	3036	133	30	2019	1.0306	1.0075	3243	150	3128	134	2027	1.0868	1.093	3525	164	3400	146	0	0 0	) 0	0	3525	164	3400	146	0.0%	0.0%	
33	A23, North of the A272	78611	3118	75826	2774	60	2019	1.0306	1.0075	81016	3141	78147	2795	2027	1.0868	1.093	88049	3434	84930	3055	92	27 6	5 92	27	88141	3461	85022	3082	0.1%	0.8%	
34	A27, West of A23	65068	2421	62763	2154	60	2019	1.0306	1.0075	67059	2439	64684	2170	2027	1.0868	1.093	72880	2666	70298	2372	42	0 4	2 42	0	72922	2666	70340	2372	0.1%	0.0%	
35	A27, East of A23	71173	2852	68652	2538	60	2019	1.0306	1.0075	73351	2873	70753	2557	2027	1.0868	1.093	79718	3141	76894	2795	54	27 2	7 54	27	79772	3168	76948	2822	0.1%	0.9%	
36	A259, West of Church Street	25835	548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	491	2026	1.0746	1.075	28609	594	27596	528	0	0 0	) 0	0	28609	594	27596	528	0.0%	0.0%	
37	A259 East of Wick	24757	469	23880	417	40	2019	1.0305	1.0075	25512	473	24608	420	2026	1.0746	1.075	27415	508	26444	452	6	0 6	6 6	0	27422	508	26450	452	0.0%	0.0%	

#### Year 1 AAWT

			Base Traff	fic - Historic (	Counts		0			2021 Base Year	of Assessment			Growth Ra	ate to Future Year	Future Year	of Assessm	ient	Peak De	evelopme	ent Traffic	c Futur	e Year + D	evelopmen	t Peak	Development Traffic % Impa	act (2026/27)
		24 Hour	18	Hour			Growth Ra	te to 2021	24 H	lour	18	Hour	Future Assessment	(202	1 - 2026/27)	24 Hour	18	Hour	24 H	our	18 Hour	r 24	Hour	181	Hour	24 Hour	
Receptor							T. (.) V. (.) (.)	1101/-			_		Year	Total Vehicles	1101/-		_		_								
Number	Receptor Location	Total HGV	Total	HGV	Speed (85th%)	Base Year	Total Vehicles	HGVs	Total	HGV	Total	HGV			HGVs	Total HGV	Total	HGV				GV Total	HGV	Total	HGV	Total	HGV
1	Ferry Road		22 ATC		60.0	2022			1925	314	1907	310	2026	1.0746	1.075	2069 338	2049	334		0 0		2069	338	2049	334	0.0%	0.0%
2	Church Lane	9859 1106	9644	1072	41.9	2017	1.0607	1.027	10458	1135	10229	1101	2026	1.0746	1.075	11238 1221	10993	1183		0 8		) 11246	1221	11000	1183	0.1%	0.0%
3	Ford Road	6025 253	5869	237	25.6	2019	1.0305	1.0075	6209	255	6048	239	2026	1.0746	1.075	6672 274	6499	257	10	6 4	10 6	6 6682	280	6509	262	0.2%	2.1%
4	A27 West of Arundel	23618 1302	22781	1159	40	2019	1.0305	1.0075	24338	1312	23476	1167	2026	1.0746	1.075	26154 1410	25228	1255	6	5 2	6 5	5 26160	1415	25234	1260	0.0%	0.3%
5	A259 West of Wick	22400 857	11083	809	43	2019	1.0305	1.0075	23083	863	11421	815	2026	1.0746	1.075	24805 928	12273	876	14	1 13	14 1	1 24819	929	12286	877	0.1%	0.1%
6	A284 North of Wick	13248 551	12779	490	30	2019	1.0305	1.0075	13652	555	13168	494	2026	1.0746	1.075	14671 597	14151	531	4	1 4	4 1	1 14675	598	14155	532	0.0%	0.1%
7	A284 Lyminster	13546 692	13075	651	42	2019	1.0305	1.0075	13959	698	13473	656	2026	1.0746	1.075	15000 750	14478	705	7	4 4	7 4	4 15008	754	14486	708	0.0%	0.5%
8	Crossbush Lane, Crossbush					2019										0 0	0	0	0		0 0	0 0	0	0	0	#DIV/0!	
9	A27, Arundel Station	32734 1613	31574	1435	40	2019	1.0305	1.0075	33732	1625	32538	1446	2026	1.0746	1.075	36249 1747	34965	1554	10	_	10 7	7 36258	1754	34974	1562	0.0%	0.4%
10	Crossbush Lane, Warning Camp		22 ATC			2022										0 0	0	0	0		0 0	0 0	0	0	0	#DIV/0!	
11	A27, South of Crossbush	31936 1757	30805	1563	60	2019	1.0305	1.0075	32910	1770	31744	1575	2026	1.0746	1.075	35365 1903	34112	1693	15		15 9	9 35380	1912	34128	1703	0.0%	0.5%
12	A27 High Salvington	22776 923	21969	821	30	2019	1.0306	1.0075	23473	930	22641	827	2026	1.0788	1.075	25323 1000	24426	890	13 1	10 3	13 1	0 25335	1009	24438	899	0.0%	1.0%
13	A24/A27 Offington (Warren Road)	30777 1012	29687	900	40	2019	1.0306	1.0075	31719	1020	30595	907	2026	1.0788	1.075	34218 1096	33006	975	14 1	12 1	14 1	2 34232	1109	33020	988	0.0%	1.1%
14	A24 Findon	25731 627	24820	558	40	2018	1.0454	1.016	26899	637	25946	567	2026	1.0788	1.075	29019 685	27991	609	5	3 2	5 3	3 29024	688	27996	612	0.0%	0.4%
15	A280 Long Furlong		22 ATC		40.0	2022			18580	3653	17883	3479	2026	1.0788	1.075	20044 3927	19292	3740	4	1 3	4 1	1 20048	3928	19296	3741	0.0%	0.0%
16	A283 West of A24	21977 750	21374	727	41	2019	1.0306	1.0075	22649	755	22028	732	2026	1.0788	1.075	24434 812	23764	787	1	0 1	1 (	24435	812	23765	787	0.0%	0.0%
17	A283 East of A24		22 ATC	-	52.60	2022			11430	2326	11295	2292	2027	1.0868	1.093	12422 2543	12275	2506	6	4 2	6 4	4 12428	2546	12281	2509	0.0%	0.1%
19	B2135, South of Ashurst	3444 105	3399	104	48	2019	1.0306	1.0075	3550	106	3502	105	2027	1.0868	1.093	3858 116	3807	115	0	0 0	0 0	3858	116	3807	115	0.0%	0.0%
20	A283, Steyning	20485 585	20230	570	52	2019	1.0306	1.0075	21112	589	20849	574	2026	1.0788	1.075	22776 633	22491	617	1	0 1	1 (	22776	633	22492	617	0.0%	0.0%
21	A24, South of A272	35481 1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	2026	1.0788	1.075	39448 1772	37792	1604	2	0 2	2 (	39450	1772	37794	1605	0.0%	0.0%
22	B2116 Patridge Green Road	6374 362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	2027	1.0868	1.093	7140 398	7015	388	0	0 0	0 0	0 7140	398	7016	388	0.0%	0.0%
23	A281, South Shermanbury	7739 341	7652	334	40	2018	1.0454	1.016	8090	346	7999	340	2027	1.0868	1.093	8792 378	8693	371	0	0 0	0 0	0 8793	378	8694	371	0.0%	0.0%
24	A281, South of Cowfold	6081 141	5866	125	30	2019	1.0306	1.0075	6267	142	6045	126	2027	1.0868	1.093	6811 155	6570	138	0	0 0	0 0	6811	155	6570	138	0.0%	0.0%
25	A281, Cowfold Center	22389 991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	2027	1.0868	1.093	25077 1091	24189	971	1	0 1	1 (	25078	1092	24190	971	0.0%	0.0%
26	A272, Station Road, Cowfold	16904 745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	2027	1.0868	1.093	18933 820	18263	730	1	0 1	1 (	) 18934	821	18264	730	0.0%	0.0%
27	Wineham Lane, South of A272	853 16	823	14	60	2019	1.0306	1.0075	879	16	848	14	2026	1.0788	1.075	948 17	915	15	0	0 0	0 0	949	17	915	15	0.0%	0.0%
29	A272, West of A23	16889 724	16291	644	40	2019	1.0306	1.0075	17406	729	16789	649	2027	1.0868	1.093	18917 797	18247	709	2	1 1	2 1	1 18919	798	18248	710	0.0%	0.1%
30	A23, North of the A272	71894 4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	2027	1.0868	1.093	80525 4431	77673	3943	1	0 0	1 (	0 80526	4432	77674	3943	0.0%	0.0%
31	B2188, Sayers Common	20	22 ATC		37.6	2022			7356	1497	7212	1461	2027	1.0868	1.093	7995 1636	7838	1597	0	0 0	0 0	7995	1636	7838	1597	0.0%	0.0%
32	B2116, Henfield Road, Albourne	3147 149	3036	133	30	2019	1.0306	1.0075	3243	150	3128	134	2027	1.0868	1.093	3525 164	3400	146	0	0 0	0 0	3525	164	3400	146	0.0%	0.0%
33	A23, North of the A272	78611 3118	75826	2774	60	2019	1.0306	1.0075	81016	3141	78147	2795	2027	1.0868	1.093	88049 3434	84930	3055	10	9 1	10 9	88059	3443	84940	3064	0.0%	0.3%
34	A27, West of A23	65068 2421	62763	2154	60	2019	1.0306	1.0075	67059	2439	64684	2170	2027	1.0868	1.093	72880 2666	70298	2372	14	12 2	14 1	2 72894	2678	70312	2385	0.0%	0.5%
35	A27, East of A23	71173 2852	68652	2538	60	2019	1.0306	1.0075	73351	2873	70753	2557	2027	1.0868	1.093	79718 3141	76894	2795	5	4 1	5 4	4 79722	3144	76899	2798	0.0%	0.1%
36	A259, West of Church Street	25835 548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	491	2026	1.0746	1.075	28609 594	27596	528	2	0 1	2 (	28611	594	27597	528	0.0%	0.0%
37	A259 East of Wick	24757 469	23880	417	40	2019	1.0305	1.0075	25512	473	24608	420	2026	1.0746	1.075	27415 508	26444	452	4	0 4	4 (	27420	508	26449	452	0.0%	0.0%

#### Year 2 AAWT

				Base Traffi	ic - Historic (	Counts					2021 Base Yea	r of Assessment			Growth Ra	te to Future Year	Fu	ture Year	of Assessme	nt	Peak De	velopmen	t Traffic	Future	e Year + D	evelopme	it Peak	Development Traffic % Im	pact (2026/27)
		24 Ho	our	18 H	lour			Growth Ra	te to 2021	24	lour	18	Hour	Future Assessment	(202	1 - 2026/27)	24 H	lour	18 H	our	24 Ho	ur	18 Hour	24 H	lour	18	Hour	24 Hour	<u> </u>
Receptor								T. (.) M. (.)	HGVs			_		Year	Total Vehicles	HGVs	_		_										
Number	Receptor Location	Total	HGV	Total	HGV	Speed (85th%)	Base Year	Total Vehicles	HGVS	Total	HGV	Total	HGV				Total	HGV	Total		Total HG	V LV I	otal HGV		HGV	Total	HGV	Total	HGV
1	Ferry Road			2 ATC		60.0	2022			1925	314	1907	310	2026	1.0746	1.075	2069	338	2049	334	/ /	0	/ /	2076	344	2056	340	0.3%	2.0%
2	Church Lane	9859	1106	9644	1072	41.9	2017	1.0607	1.027	10458	1135	10229	1101	2026	1.0746	1.075	11238	1221	10993	1183	75 0	75	75 0	11313	1221	11067	1183	0.7%	0.0%
3	Ford Road	6025	253	5869	237	25.6	2019	1.0305	1.0075	6209	255	6048	239	2026	1.0746	1.075	6672	274	6499	257	67 25	5 42	67 25	6740	299	6567	282	1.0%	9.2%
4	A27 West of Arundel	23618	1302	22781	1159	40	2019	1.0305	1.0075	24338	1312	23476	1167	2026	1.0746	1.075	26154	1410	25228	1255	51 34	18	51 34	26205	1444	25279	1288	0.2%	2.4%
5	A259 West of Wick	22400	857	11083	809	43	2019	1.0305	1.0075	23083	863	11421	815	2026	1.0746	1.075	24805	928	12273	876	136 7	129 1	136 7	24941	935	12409	884	0.5%	0.8%
6	A284 North of Wick	13248	551	12779	490	30	2019	1.0305	1.0075	13652	555	13168	494	2026	1.0746	1.075	14671	597	14151	531	59 7	51	59 7	14729	604	14210		0.4%	1.2%
7	A284 Lyminster	13546	692	13075	651	42	2019	1.0305	1.0075	13959	698	13473	656	2026	1.0746	1.075	15000	750	14478	705	77 26	5 51	77 26	15078	776	14556	731	0.5%	3.4%
8	Crossbush Lane, Crossbush						2019										0	0	0	0	0 0	0	0 0	0	0	0	0	#DIV/0!	
9	A27, Arundel Station	32734	1613	31574	1435	40	2019	1.0305	1.0075	33732	1625	32538	1446	2026	1.0746	1.075	36249	1747	34965	1554		5 23	68 45	36317	1792	35033	1599	0.2%	2.6%
10	Crossbush Lane, Warning Camp		202	2 ATC			2022										0	0	0	0	0 0	0	0 0	0	0	0	0	#DIV/0!	
11	A27, South of Crossbush	31936	1757	30805	1563	60	2019	1.0305	1.0075	32910	1770	31744	1575	2026	1.0746	1.075	35365	1903	34112	1693	135 61	75 1	135 61	35501	1964	34248	1754	0.4%	3.2%
12	A27 High Salvington	22776	923	21969	821	30	2019	1.0306	1.0075	23473	930	22641	827	2026	1.0788	1.075	25323	1000	24426	890	77 49	28	77 49	25400	1049	24503	939	0.3%	4.9%
13	A24/A27 Offington (Warren Road)	30777	1012	29687	900	40	2019	1.0306	1.0075	31719	1020	30595	907	2026	1.0788	1.075	34218	1096	33006	975	76 64	1 12	76 64	34294	1160	33082	1040	0.2%	5.9%
14	A24 Findon	25731	627	24820	558	40	2018	1.0454	1.016	26899	637	25946	567	2026	1.0788	1.075	29019	685	27991	609	71 15	5 56	71 15	29090	700	28062	624	0.2%	2.2%
15	A280 Long Furlong		-	2 ATC		40.0	2022			18580	3653	17883	3479	2026	1.0788	1.075	20044	3927	19292	3740	76 29	9 47	76 29	20119	3955	19367	3769	0.4%	0.7%
16	A283 West of A24	21977	750	21374	727	41	2019	1.0306	1.0075	22649	755	22028	732	2026	1.0788	1.075	24434	812	23764	787	70 12	2 58	70 12	24504	824	23833	799	0.3%	1.5%
17	A283 East of A24		-	2 ATC		52.60	2022			11430	2326	11295	2292	2027	1.0868	1.093	12422	2543	12275	2506	142 9	133 1	142 9	12565	2551	12417	2514	1.1%	0.3%
19	B2135, South of Ashurst	3444	105	3399	104	48	2019	1.0306	1.0075	3550	106	3502	105	2027	1.0868	1.093	3858	116	3807	115	5 5	0	5 5	3862	120	3811	119	0.1%	4.1%
20	A283, Steyning	20485	585	20230	570	52	2019	1.0306	1.0075	21112	589	20849	574	2026	1.0788	1.075	22776	633	22491	617			44 0		633	22536		0.2%	0.0%
21	A24, South of A272	35481	1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	2026	1.0788	1.075	39448	1772	37792	1604			78 12		1784	37870	1616	0.2%	0.7%
22	B2116 Patridge Green Road	6374	362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	2027	1.0868	1.093	7140	398	7015	388	23 6		23 6		405	7039	395	0.3%	1.6%
23	A281, South Shermanbury	7739	341	7652	334	40	2018	1.0454	1.016	8090	346	7999	340	2027	1.0868	1.093	8792	378	8693	371	23 6	17	23 6	8815	384	8716	377	0.3%	1.5%
24	A281, South of Cowfold	6081	141	5866	125	30	2019	1.0306	1.0075	6267	142	6045	126	2027	1.0868	1.093	6811	155	6570	138	4 4	0	4 4		159		142	0.1%	2.3%
25	A281, Cowfold Center	22389	991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	2027	1.0868	1.093	25077	1091	24189	971	72 12	2 60	72 12	25149	1103	24261	983	0.3%	1.1%
26	A272, Station Road, Cowfold	16904	745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	2027	1.0868	1.093	18933	820	18263	730	69 12	2 57	69 12	19003	832	18332	742	0.4%	1.5%
27	Wineham Lane, South of A272	853	16	823	14	60	2019	1.0306	1.0075	879	16	848	14	2026	1.0788	1.075	948	17	915	15	3 1	3	3 1	952	18	918	16	0.4%	3.5%
29	A272, West of A23	16889	724	16291	644	40	2019	1.0306	1.0075	17406	729	16789	649	2027	1.0868	1.093	18917	797	18247	709	109 35	5 74 1	109 35	19026	832	18356		0.6%	4.4%
30	A23, North of the A272	71894	4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	2027	1.0868	1.093	80525	4431	77673	3943	40 16	5 24	40 16	80565	4447	77713	3959	0.0%	0.4%
31	B2188, Sayers Common		-	2 ATC		37.6	2022			7356	1497	7212	1461	2027	1.0868	1.093	7995	1636	7838	1597	0 0	0	0 0	7995	1636	7838	1597	0.0%	0.0%
32	B2116, Henfield Road, Albourne	3147	149	3036	133	30	2019	1.0306	1.0075	3243	150	3128	134	2027	1.0868	1.093	3525	164	3400	146	0 0	0	0 0	3525	164	3400	146	0.0%	0.0%
33	A23, North of the A272	78611	3118	75826	2774	60	2019	1.0306	1.0075	81016	3141	78147	2795	2027	1.0868	1.093	88049	3434	84930	3055	90 56	5 34	90 56	88139	3489	85020		0.1%	1.6%
34	A27, West of A23	65068	2421	62763	2154	60	2019	1.0306	1.0075	67059	2439	64684	2170	2027	1.0868	1.093	72880	2666	70298	2372	95 62	2 33	95 62	72974	2728	70393	2434	0.1%	2.3%
35	A27, East of A23	71173	2852	68652	2538	60	2019	1.0306	1.0075	73351	2873	70753	2557	2027	1.0868	1.093	79718	3141	76894	2795	48 29	9 19	48 29	79766	3170	76942	2824	0.1%	0.9%
36	A259, West of Church Street	25835	548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	491	2026	1.0746	1.075	28609	594	27596	528		17	20 3	28629	596	27616	531	0.1%	0.5%
37	A259 East of Wick	24757	469	23880	417	40	2019	1.0305	1.0075	25512	473	24608	420	2026	1.0746	1.075	27415	508	26444	452	49 0	49	49 0	27464	508	26493	452	0.2%	0.0%

#### Year 3 AAWT

				Base Traffi	ic - Historic (	Counts		0			2021 Base Yea	r of Assessment			Growth Ra	te to Future Year	Fu	ture Year	of Assessme	ent	Peak D	evelopn	nent Traf	ic Fi	uture Year +	Developm	ent Peak	Development Traffic % Im	npact (2026/27)
		24 Hou	ur	18 H	lour			Growth Ra	ite to 2021	24	lour	18	Hour	Future Assessment	(202	1 - 2026/27)	24 H	Hour	18 H	our	24 Hou	ır İ	18 Ho	ur	24 Hour	1	8 Hour	24 Hour	<u> </u>
Receptor								T. (	HGVs	_		_		Year	Total Vehicles	HGVs	_		_							_			
Number	Receptor Location	Total	HGV	Total	HGV	Speed (85th%)	Base Year	Total Vehicles	HGVS	Total	HGV	Total	HGV				Total	HGV	Total		Total H		Iotal			Total		Total	HGV
1	Ferry Road			2 ATC		60.0	2022			1925	314	1907	310	2026	1.0746	1.075	2069	338	2049	334	0	0 0	0	0 206		2049		0.0%	0.1%
2	Church Lane	9859	1106	9644	1072	41.9	2017	1.0607	1.027	10458	1135	10229	1101	2026	1.0746	1.075	11238	1221	10993	1183	1	0 1	1	0 1123		1099	4 1183	0.0%	0.0%
3	Ford Road	6025	253	5869	237	25.6	2019	1.0305	1.0075	6209	255	6048	239	2026	1.0746	1.075	6672	274	6499	257	6	6 1	6	6 667		6505		0.1%	2.1%
4	A27 West of Arundel	23618	1302	22781	1159	40	2019	1.0305	1.0075	24338	1312	23476	1167	2026	1.0746	1.075	26154	1410	25228	1255	24 2	22 1	24	22 261	78 1432	2525	1 1277	0.1%	1.6%
5	A259 West of Wick	22400	857	11083	809	43	2019	1.0305	1.0075	23083	863	11421	815	2026	1.0746	1.075	24805	928	12273	876	4	0 4	4	0 248	10 928	1227		0.0%	0.0%
6	A284 North of Wick	13248	551	12779	490	30	2019	1.0305	1.0075	13652	555	13168	494	2026	1.0746	1.075	14671	597	14151	531	14	0 13	14			1416		0.1%	0.0%
7	A284 Lyminster	13546	692	13075	651	42	2019	1.0305	1.0075	13959	698	13473	656	2026	1.0746	1.075	15000	750	14478	705	14	0 13	14	0 150	14 750	14493	2 705	0.1%	0.0%
8	Crossbush Lane, Crossbush						2019										0	0	0	0	0	0 0	0	0 0	0	0	0	#DIV/0!	
9	A27, Arundel Station	32734	1613	31574	1435	40	2019	1.0305	1.0075	33732	1625	32538	1446	2026	1.0746	1.075	36249	1747	34965	1554	26 2	25 2	26	25 362	75 1772	3499	1 1579	0.1%	1.4%
10	Crossbush Lane, Warning Camp		2022	2 ATC			2022										0	0	0	0	0	0 0	0	0 0	0	0	0	#DIV/0!	
11	A27, South of Crossbush	31936	1757	30805	1563	60	2019	1.0305	1.0075	32910	1770	31744	1575	2026	1.0746	1.075	35365	1903	34112	1693	40 2	25 15	40	25 3540	05 1928	3415	2 1718	0.1%	1.3%
12	A27 High Salvington	22776	923	21969	821	30	2019	1.0306	1.0075	23473	930	22641	827	2026	1.0788	1.075	25323	1000	24426	890	5	4 0	5	4 2532	27 1004	2443	0 894	0.0%	0.4%
13	A24/A27 Offington (Warren Road)	30777	1012	29687	900	40	2019	1.0306	1.0075	31719	1020	30595	907	2026	1.0788	1.075	34218	1096	33006	975	30 3	30 0	30	30 3424	1126	3303	6 1005	0.1%	2.7%
14	A24 Findon	25731	627	24820	558	40	2018	1.0454	1.016	26899	637	25946	567	2026	1.0788	1.075	29019	685	27991	609	56 2	25 30	56	25 290	74 710	2804	7 635	0.2%	3.7%
15	A280 Long Furlong		2022	2 ATC		40.0	2022			18580	3653	17883	3479	2026	1.0788	1.075	20044	3927	19292	3740	37 1	22 15	37	22 2008	3949	1932	9 3762	0.2%	0.6%
16	A283 West of A24	21977	750	21374	727	41	2019	1.0306	1.0075	22649	755	22028	732	2026	1.0788	1.075	24434	812	23764	787	29	0 29	29	0 2446	63 812	2379	2 787	0.1%	0.0%
17	A283 East of A24		2022	2 ATC		52.60	2022			11430	2326	11295	2292	2027	1.0868	1.093	12422	2543	12275	2506	109 3	35 74	109	35 1253	31 2578	1238	4 2541	0.9%	1.4%
19	B2135, South of Ashurst	3444	105	3399	104	48	2019	1.0306	1.0075	3550	106	3502	105	2027	1.0868	1.093	3858	116	3807	115	4	4 0	4	4 386	2 120	3811	119	0.1%	3.9%
20	A283, Steyning	20485	585	20230	570	52	2019	1.0306	1.0075	21112	589	20849	574	2026	1.0788	1.075	22776	633	22491	617	22	0 22	22	0 2279	633	2251	3 617	0.1%	0.0%
21	A24, South of A272	35481	1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	2026	1.0788	1.075	39448	1772	37792	1604	62	11 51	62	11 395	1783	3785	4 1615	0.2%	0.6%
22	B2116 Patridge Green Road	6374	362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	2027	1.0868	1.093	7140	398	7015	388	14	6 8	14	6 715	4 404	7030	394	0.2%	1.5%
23	A281, South Shermanbury	7739	341	7652	334	40	2018	1.0454	1.016	8090	346	7999	340	2027	1.0868	1.093	8792	378	8693	371	14	5 8	14	5 880	6 384	8707	376	0.2%	1.4%
24	A281, South of Cowfold	6081	141	5866	125	30	2019	1.0306	1.0075	6267	142	6045	126	2027	1.0868	1.093	6811	155	6570	138	3	3 0	3	3 681	4 159	6573	141	0.0%	2.1%
25	A281, Cowfold Center	22389	991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	2027	1.0868	1.093	25077	1091	24189	971	89	11 78	89	11 2516	6 1102	2427	8 982	0.4%	1.0%
26	A272, Station Road, Cowfold	16904	745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	2027	1.0868	1.093	18933	820	18263	730	89	11 78	89	11 1902	22 831	1835	2 741	0.5%	1.3%
27	Wineham Lane, South of A272	853	16	823	14	60	2019	1.0306	1.0075	879	16	848	14	2026	1.0788	1.075	948	17	915	15	15	5 10	15	5 964	4 23	930	21	1.6%	30.4%
29	A272, West of A23	16889	724	16291	644	40	2019	1.0306	1.0075	17406	729	16789	649	2027	1.0868	1.093	18917	797	18247	709	129 1	29 100	129	29 1904	46 826		6 739	0.7%	3.7%
30	A23, North of the A272	71894	4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	2027	1.0868	1.093	80525	4431	77673	3943	45 <sup>-</sup>	14 31	45	14 805	70 4445	7771	B 3957	0.1%	0.3%
31	B2188, Sayers Common		2022	2 ATC		37.6	2022			7356	1497	7212	1461	2027	1.0868	1.093	7995	1636	7838	1597	0	0 0	0	0 799	5 1636	7838	1597	0.0%	0.0%
32	B2116, Henfield Road, Albourne	3147	149	3036	133	30	2019	1.0306	1.0075	3243	150	3128	134	2027	1.0868	1.093	3525	164	3400	146	0	0 0	0	0 352	5 164	3400	146	0.0%	0.0%
33	A23, North of the A272	78611	3118	75826	2774	60	2019	1.0306	1.0075	81016	3141	78147	2795	2027	1.0868	1.093	88049	3434	84930	3055	71 :	32 39	71	32 881	19 3465	8500	0 3087	0.1%	0.9%
34	A27, West of A23	65068	2421	62763	2154	60	2019	1.0306	1.0075	67059	2439	64684	2170	2027	1.0868	1.093	72880	2666	70298	2372	55 3	30 25	55	30 7293	35 2696	7035	3 2402	0.1%	1.1%
35	A27, East of A23	71173	2852	68652	2538	60	2019	1.0306	1.0075	73351	2873	70753	2557	2027	1.0868	1.093	79718	3141	76894	2795	36 1	19 16	36	19 7975	53 3160	7693	0 2814	0.0%	0.6%
36	A259, West of Church Street	25835	548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	491	2026	1.0746	1.075	28609	594	27596	528	2	0 2	2	0 286	12 594	2759	B 528	0.0%	0.0%
37	A259 East of Wick	24757	469	23880	417	40	2019	1.0305	1.0075	25512	473	24608	420	2026	1.0746	1.075	27415	508	26444	452	7	0 7	7	0 2742	22 508	2645	1 452	0.0%	0.0%

#### Year 4 AAWT

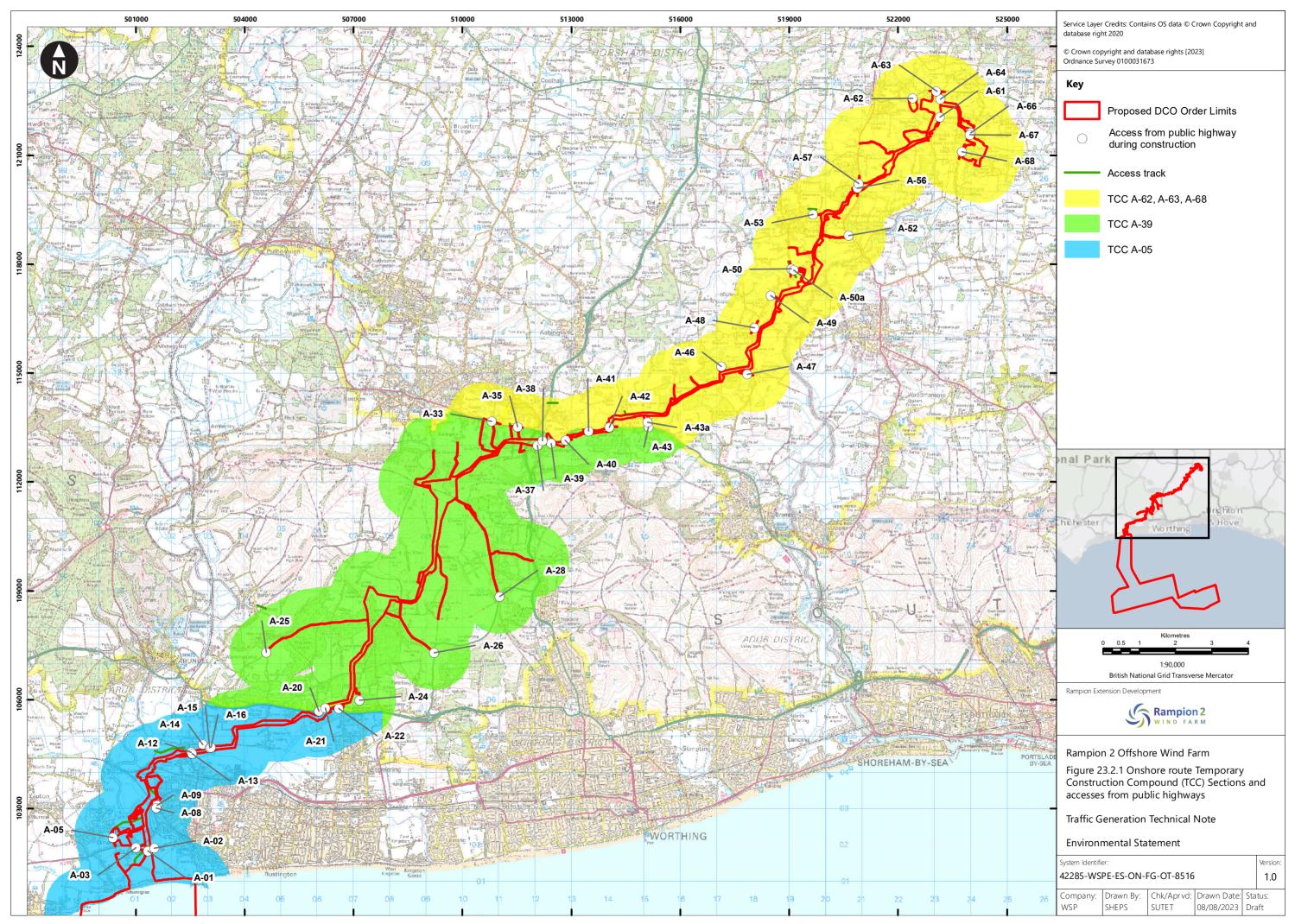
besize         besize<			1		Base Traff	ic - Historic (	Counts		Crowth R	ate to 2021		2021 Base Yea	r of Assessment				ate to Future Year	F	uture Year o	of Assessm	ient	P	eak Deve	lopment T	raffic	Futur	e Year + D	evelopment F	Peak	Development Traffic % Impact	t (2026/27)
Image: Normal and the state of the st			24 H	our	18 H	lour			Growinka		24	Hour	18	Hour			21 - 2026/27)	24	Hour	18	Hour	2	4 Hour		18 Hour	24	lour	18 Ho	our	24 Hour	
1         1									Tetel Makialaa	1101/-					Year		1101/-													1	
2         Description         100         400         100        100        100         100			Total			HGV	Speed (85th%)	Dascrear	i otal venicies	HGVS		-			0000							Total	HGV	LV To	otal HGV				-		HGV
3         9		,		-			60.0					-								2049		1	1	0	1 1			2049			0.2%
• A Vertet Averate         · 1070        · 1070        · 1070        · 1070 <th< td=""><td></td><td></td><td>9859</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>10993</td><td></td><td>4</td><td>0</td><td>4</td><td>4 0</td><td></td><td></td><td>10997</td><td></td><td></td><td>0.0%</td></th<>			9859																	10993		4	0	4	4 0			10997			0.0%
Normal         Normal<			6025																	6499		5	3	2	5 3						1.1%
• Diak konsi wick         900         1070         400         900         900         9000        9000         9000	-		23618													_						8	7	1	8 7						0.5%
NA4 (wnow)         Sine         Sine         Gene         Sine         ine        Sine       <			22400																			8	1	7	8 1						0.1%
1       0			13248																			5	1	4	5 1		000				0.2%
10         107         108        108         108         108			13546	692	13075	651	42		1.0305	1.0075	13959	698	13473	656	2026	1.0746	1.075	15000	750	14478	705		<u> </u>	4	10 6	15010	756	14488			0.8%
Product Start         Processe         rocesse         Processe																		0	0	0	0		0	0	0 0	0	0	0			
11         27. Sourt Greenhout         1007         3000         1007         1007         1007         1000         1007         100         1007         1000         1000         1007         1000         1007         1000         1007         1000         1007         1000         1007         1000         1007         1000         1007         1000         1007         1000         1007         1000			32734			1435	40	2019	1.0305	1.0075	33732	1625	32538	1446	2026	1.0746	1.075	36249	1747	34965	1554		9	1	10 9	36259	1756	34975			0.5%
12         A27 Holsshargion         920         2100         821         900         40.00         2.2473         900         2.2473         900         2.2481         900         2.252         100         2.252         100         2.252         100         2.252         100         2.252         100         2.252         100         2.252         100         2.252         100         2.252         100         2.252         100         2.252         100         2.25         100         2.25         100         2.25         100         2.25         100         2.25         100         2.25         100         2.25         2.25         100         10.75         2.25         2.25         100         2.45         10         2.25        2.25 <t< td=""><td></td><td></td><td></td><td>2022</td><td></td><td></td><td></td><td>2022</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>Ö</td><td>0</td><td>0</td><td>0 0</td><td>0</td><td>0</td><td>0</td><td>, v</td><td></td><td></td></t<>				2022				2022										0	0	0	0	Ö	0	0	0 0	0	0	0	, v		
h AdvAl27 Omgan (Name Road         907         9102         900         907         9103         9107         9103         9107         9103         9107         9103         9107         910        910        910 <th< td=""><td></td><td></td><td>31936</td><td></td><td>30805</td><td></td><td>60</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1903</td><td></td><td>1693</td><td>17</td><td>12</td><td>5</td><td>17 12</td><td>35382</td><td>1915</td><td>34129</td><td></td><td></td><td>0.6%</td></th<>			31936		30805		60												1903		1693	17	12	5	17 12	35382	1915	34129			0.6%
A A2A Fraction         Solar         0.07         2.9340         0.07         2.9340         0.07         2.9340         1.075         2.900         0.07         1.075         2.900         0.00         4.1         7         0         4.2         7.900         4.3         7.900         4.3         7.900         4.3         7.900         4.3         7.900         4.3         7.900         4.3         7.900         4.3         7.900         4.3         7.900         4.3         7.900         4.3         7.900         7			22776																1000	24426	890	15	13	2	15 13	25337	1013	24440			1.3%
15         A280. Log Pating         2022 Liv         400         9027         178         158         9479         2028         1075         1075         2044         917         A         1         8         4         11         8         2003         3786         0.155           17         A283 West AAA         0         222 Liv         52.00         2002         1133         2366         1123         2202         1208         1075         2444         812         3747         0         2         2         0         0         2         2         0         0         2         2         1033         3786         0.15           19         2623 South Advant         0.141         4.8         2002         1007         2012         2006         1030         1982         2548         113         5         8         13         5         148         2005         1030         1202         1050         1202         1050         1202         1050         1202         1050         1202         1050         1050         1060         1075         2444         10         1<1         1         1<1         1<1         1<1         1<1         1<1         1<1 <td></td> <td><b>3</b></td> <td>30777</td> <td></td> <td>29687</td> <td></td> <td>40</td> <td></td> <td>34218</td> <td>1096</td> <td>33006</td> <td>975</td> <td>18</td> <td>17</td> <td>1</td> <td>18 17</td> <td>34236</td> <td>1113</td> <td>33024</td> <td>992</td> <td></td> <td>1.5%</td>		<b>3</b>	30777		29687		40											34218	1096	33006	975	18	17	1	18 17	34236	1113	33024	992		1.5%
16       A283 Word A2A       9700       21374       9770       41       90.09       1.0075       2.2049       7750       2.2005       1.0780       1.075       2.44.4       91.2       2.77       4.7       2.2       0       2.2       0       2.485       1.0150       1.0250       1.0250       2.2026       1.0250       1.0			25731			558	40		1.0454	1.016									685	27991	609	10	4	7	10 4	29029	689	28001			0.6%
11         2828 sour A24         5         5         2217         5         5         11         5         13        5         13<					2 ATC		40.0												3927	19292	3740	11	8	4	11 8	20055	3935	19303	3748		0.2%
19         213         South of Ashurst         916         916         9207         106         9207         106         9207         107         9208         9208         916         3007         116         307         116         307         116         307         116         307         116         307         116         307         116         307         116         307         116         307         116         307         116         307         116         307         116         307         116         307         116         307         116         307         116         307         116         307         116         307         116         1075         3566         3567         116         307         316         1075         326         1075         326         1075         326         1075         326         1075         326         1075         3267         1086         1075         316         1075         3260         316         307         12         326         307         108         1075         3277         1088         1075         3278         1080         1075         3260         1075         3260         1075         3260 <td></td> <td></td> <td>21977</td> <td></td> <td></td> <td>727</td> <td></td> <td></td> <td>1.0306</td> <td>1.0075</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>24434</td> <td>812</td> <td>23764</td> <td>787</td> <td>2</td> <td>0</td> <td>2</td> <td>2 0</td> <td>24436</td> <td>812</td> <td>23765</td> <td>787</td> <td></td> <td>0.0%</td>			21977			727			1.0306	1.0075								24434	812	23764	787	2	0	2	2 0	24436	812	23765	787		0.0%
20         A23. Synying         5989         5989         5989         5989         5989         5989         574         2016         1075         2112         598         5069         574         2029         6133         2249         617         1         0         217         633         2243         617         0.0%           21         A24.Souch d A272         5589         1636         302         243         1481         400         211         5566         1688         3622         1638         1075         3448         177         346         173         348         173         348         173         348         173         348         173         348         173         348         173         348         173         348         173         348         173         348         173         348         173         348         173         348         173         348         173         183         248         1833         344         4 <td>17</td> <td>A283 East of A24</td> <td></td> <td>2022</td> <td>2 ATC</td> <td></td> <td>52.60</td> <td>2022</td> <td></td> <td></td> <td>11430</td> <td>2326</td> <td>11295</td> <td></td> <td></td> <td>1.0868</td> <td></td> <td>12422</td> <td>2543</td> <td>12275</td> <td>2506</td> <td>13</td> <td>5</td> <td>8</td> <td>13 5</td> <td>12435</td> <td>2548</td> <td>12288</td> <td>2511</td> <td></td> <td>0.2%</td>	17	A283 East of A24		2022	2 ATC		52.60	2022			11430	2326	11295			1.0868		12422	2543	12275	2506	13	5	8	13 5	12435	2548	12288	2511		0.2%
21       A4, Sum of A272       9589       1636       33991       1481       40       2019       1.0.36       1.0075       38667       1648       35022       1.078       1.0.75       33448       1.772       37.92       1604       13       1       12       13       1       13       13       13       13       14       4       0.0%       10.0%       10.0%       10.0%       10.0%       10.0%       10.0%       10.0%       10.0%       10.0%       10.0%       10.0%       10.0%       10.0%       10.0%       10.0%       10.0%       10.0	19		3444	105	3399		48		1.0306	1.0075								3858	116	3807	115	3	3	0	3 3	3860	118	3809	117	0.1%	2.3%
22         82116 Particige Green Road         6216         362         6264         353         29         2019         1.006         1.0075         6669         364         6455         335         2027         1.0868         1.093         7140         388         75         4         0         5         4         714         402         7020         332         0.1%           24         A281, South Shermanbury         7715         341         7562         334         40         216         1.0454         1.016         6090         346         7999         340         2027         1.0868         1.093         671         5         673         138         4         4         4         673         586         57         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1			20485	585	20230									-					633	22491	617	1	0	1	1 0	22777	633	22493			0.0%
23       A281, South Shermanbury       979       341       7652       334       40       2018       1.0454       1.016       8090       346       7999       340       2027       1.0868       1.093       8792       378       8893       371       4       4       6       797       382       8888       375       0.1%         24       A281, South of Cowold       411       5666       125       30       2019       1.0306       1.0075       2.677       1.42       6045       1.68       1.003       6811       155       6470       18       2       2       0       2       2       6103       1.005       1.003       1.0075       2.077       1.0868       1.003       6811       155       6470       1.8       672       1.41       0.0%         26       A227, Station Road, Cowold       16804       6.03       3.007       1.075       1.741       751       16804       6.8       2.027       1.088       1.003       1.833       820       1.8       1.03       1.8       1.03       1.8       1.03       1.8       1.03       1.8       1.03       1.03       1.03       1.03       1.03       1.03       1.03       1.03	21	1	35481	1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	2026	1.0788	1.075	39448	1772	37792	1604	13	1	12	13 1	39461	1773	37805	1606		0.1%
24         A281, South of Cowloid         141         5866         125         30         2019         1.0056         1.0075         6267         142         6045         126         2027         1.0868         1.093         6811         155         6570         138         2         2         0         2         2         6813         158         6572         141         0.0%           25         A281, Cowloid Center         25007         10868         1.093         25077         10868         1.093         2507         124         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24         25         1         24 <td>22</td> <td>B2116 Patridge Green Road</td> <td>6374</td> <td>362</td> <td>6264</td> <td>353</td> <td>29</td> <td>2019</td> <td>1.0306</td> <td>1.0075</td> <td>6569</td> <td>364</td> <td>6455</td> <td>355</td> <td>2027</td> <td>1.0868</td> <td>1.093</td> <td>7140</td> <td>398</td> <td>7015</td> <td>388</td> <td>5</td> <td>4</td> <td>0</td> <td>5 4</td> <td>7144</td> <td>402</td> <td>7020</td> <td>392</td> <td></td> <td>1.0%</td>	22	B2116 Patridge Green Road	6374	362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	2027	1.0868	1.093	7140	398	7015	388	5	4	0	5 4	7144	402	7020	392		1.0%
25         A281, Cowfold Center         2288         991         2156         882         30         2019         1.0306         1.0075         23074         998         2227         888         2027         1.0868         1.093         25077         1091         2418         971         25         1         24         25         1         2421         972         2.010         2.030         2.019         1.0306         1.0075         1.7421         751         16804         668         2027         1.0868         1.093         1823         730         25         1         24         25         1         1828         822         1828         731         0.1%           27         Wineham Lane, South of A272         16         823         14         60         2019         1.0306         1.0075         1740         716         2026         1.078         1.078         1.078         1.078         1.078         1.078         1.078         1.078         1.075         2.1         1         2.4         1.08         1.08         1.075         1.076         2.01         1.088         1.021         1.021         1.021         1.021         1.021         1.021         1.021         1.021	23	A281, South Shermanbury	7739	341	7652	334	40	2018	1.0454	1.016	8090	346	7999	340	2027	1.0868		8792	378	8693	371	4	4	0	4 4	8797	382	8698	375	0.1%	1.0%
26         A272, Station Road, Cowlold         1024         745         16305         663         30         2019         1.0306         1.075         17421         751         16804         668         2027         1.088         1.093         1823         820         1823         70         25         1         24         25         1         18958         822         1888         731         0.1%           27         Wineham Lane, South of A272         953         16         823         14         600         2019         1.0306         1.075         879         16         848         14         2026         1.075         1881         177         15         15         2         1         1         2         1         980         1883         16         0.2%         1         16         2.1         1         1893         820         1823         103         1         1         2         1         1893         820         1823         17         15         15         1         1         2         1         180         103         1803         103         16         16         2         1         180         16         16         16         14	24	A281, South of Cowfold	6081	141	5866	125	30	2019	1.0306	1.0075	6267	142	6045	126	2027	1.0868	1.093	6811	155	6570	138	2	2	0	2 2	6813	158	6572	141	0.0%	1.5%
27         Wineham Lane, South of A272         663         16         823         14         60         2019         1.0075         879         16         848         14         2026         1.075         948         17         915         15         2         1         1         2         1         950         18         917         16         0.2%           29         AZ7. West of A23         1688         724         1629         644         400         2019         1.0006         1.0075         17406         729         1678         649         2027         1.0688         1.093         18917         797         18247         709         36         5         31         36         5         1893         803         1823         715         0.2%           30         A23, North of he A272         7169         402         744         4054         71406         7202         1.0088         1.003         8052         443         763         343         14         93         15         718         813         768         393         15         718         15         16         16         16         16         16         16         16         16	25		22389	991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	2027	1.0868		25077	1091	24189	971	25	1	24	25 1	25102	1092	24214	972	0.1%	0.1%
29       A272, West of A23       1688       724       16291       644       400       2019       1.0306       1.0075       17406       729       16789       649       2027       1.0888       1.093       18247       709       36       5       31       36       5       18953       803       18283       715       0.2%         30       A23, Noth of the A272       71894       4024       6397       7764       3967       71499       3607       2027       1.0888       1.093       30625       4431       77673       3943       13       4       9       13       4       8058       4357       7768       3947       0.0%         31       B2188, Sayers Common       2022 × T       37.6       2022       77.85       1497       72.12       1.461       2027       1.0868       1.093       3952       163       3943       13       4       9       13       4       8957       8977       0.0%       30         32       B2161, Henfield Road, Abourne       3147       499       3030       133       30       2019       1.0306       1.0075       3243       150       3141       2027       1.0868       1.093       3955	26	A272, Station Road, Cowfold	16904	745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	2027	1.0868	1.093	18933	820	18263	730	25	1	24	25 1	18958	822	18288	731	0.1%	0.1%
30       A23, North of the A272       71894       4024       6937       7381       60       2019       1.0306       1.0075       74094       4054       71469       3607       2027       1.0868       1.093       9431       13       4       9       13       4       80538       4435       77686       3947       0.0%         31       B2188, Sayers Common       2022 × U       37.6       2022       7786       1497       7212       1461       2027       1.0868       1.093       7995       1636       7838       1597       0       0       0       0       0       9       13       4       8953       4435       77686       3947       0.0%         32       B2188, Sayers Common       3197       149       330       2019       1.0306       1.0075       3243       160       1.088       1.093       3525       163       783       163       4       9       13       4       8953       4435       7768       8947       0.0%         32       B216, Hernfeld Road, Abourne       3197       149       3036       1.0975       3243       1616       314       7747       295       1636       1.093       3525       1	27	Wineham Lane, South of A272	853	16	823	14	60	2019	1.0306	1.0075	879	16	848	14	2026	1.0788	1.075	948	17	915	15	2	1	1	2 1	950	18	917	16	0.2%	5.3%
31       B2188, Sayers Common       2022 ATC       37.6       2022       0       7356       1497       7212       1461       2027       1.0868       1.093       795       1636       7838       1597       0	29		16889	724	16291	644	40	2019	1.0306	1.0075	17406		16789	649		1.0868		18917	797	18247	709	36	5	31	36 5	18953	803	18283	715	0.2%	0.7%
32       B2116, Henfeld Road, Albourne       314       149       303       133       30       2019       1.006       3243       150       318       134       2027       1.0868       1.093       3525       164       340       146       0       0       0       0       0       0       3525       164       3400       146       0.00%         33       A23, North of the A272       7851       3118       7586       2774       60       2019       1.005       8106       3141       7817       2795       2027       1.0868       1.093       88049       343       84930       3055       27       15       12       27       15       8486       84957       3070       0.00%         34       A27, West of A23       60058       2421       62763       2154       600       2019       1.0056       1.0075       2439       64684       2170       2027       1.068       1.093       28049       2372       25       17       8       25       17       72904       2633       70303       2649       2027       1.0686       1.093       72880       2656       7028       13       7       1       1       1       1	30	A23, North of the A272	71894	4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	2027	1.0868	1.093	80525	4431	77673	3943	13	4	9	13 4	80538	4435	77686	3947	0.0%	0.1%
33       A23, North of the A272       70811       3118       75826       2774       60       2019       1.0075       81016       3141       76147       2795       2027       1.0868       1.093       88049       3.43       84930       3.055       27       15       12       27       15       8407       3.070       0.00%         34       A27, West of A23       65086       2421       62763       2154       60       2019       1.0006       1.0075       67059       2439       64684       2170       2027       1.0868       1.093       7280       266       70.29       2372       25       17       8       25       17       72904       2683       7033       2389       0.0%         35       A27, East of A23       71173       2852       68652       2538       600       2019       1.0036       1.0075       73351       2873       7027       1.0868       1.093       79718       216       13       7       5       13       7       7970       2483       70970       2483       70970       2403       70070       2160       10.005       21600       2173       2758       13       7       5       13       7	31	B2188, Sayers Common		2022	2 ATC		37.6	2022			7356	1497	7212	1461	2027	1.0868	1.093	7995	1636	7838	1597	0	0	0	0 0	7995	1636	7838	1597	0.0%	0.0%
34       A27, West of A23       5656       2421       62763       2154       600       2019       1.006       67059       2439       64684       2170       2027       1.0888       1.093       7280       265       17       8       25       17       72904       2683       70323       2389       0.00%         35       A27, East of A23       71173       2852       68652       2538       600       2019       1.0056       1.0075       73351       2873       70753       2557       2027       1.0888       1.093       79718       314       76894       2795       13       7       5       13       7       9730       3148       76007       2007         36       A259, West of Church Street       25835       548       2490       488       400       2019       1.0055       26623       552       25680       491       2026       1.075       2809       594       2756       528       1       0       1       0       28610       594       2759       528       1       0       1       0       2801       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%	32	B2116, Henfield Road, Albourne	3147	149	3036	133	30	2019	1.0306	1.0075	3243	150	3128	134	2027	1.0868	1.093	3525	164	3400	146	0	0	0	0 0	3525	164	3400	146	0.0%	0.0%
35       A27, East of A23       71173       2852       68652       2538       600       2019       1.0075       73351       2875       2027       1.0888       1.093       79718       314       76894       2795       13       7       5       13       7       9730       3148       76907       2002         36       A259, West of Church Street       25835       548       24920       488       400       2019       1.0075       26623       552       25680       491       2026       1.076       1.075       28609       594       2756       528       1       0       1       0       28610       594       2076       1.075       28609       594       27596       528       1       0       1       0       28610       594       0.0%	33	A23, North of the A272	78611	3118	75826	2774	60	2019	1.0306	1.0075	81016	3141	78147	2795	2027	1.0868	1.093	88049	3434	84930	3055	27	15	12	27 15	88075	3448	84957	3070	0.0%	0.4%
36 A259, West of Church Street 23838 548 24920 448 40 2019 1.0305 1.0075 26623 552 25680 491 2026 1.076 1.075 28609 594 27596 528 1 0 1 1 0 28610 594 27597 529 0.0%	34	A27, West of A23	65068	2421	62763	2154	60	2019	1.0306	1.0075	67059	2439	64684	2170	2027	1.0868	1.093	72880	2666	70298	2372	25	17	8	25 17	72904	2683	70323	2389	0.0%	0.6%
	35	A27, East of A23	71173	2852	68652	2538	60	2019	1.0306	1.0075	73351	2873	70753	2557	2027	1.0868	1.093	79718	3141	76894	2795	13	7	5	13 7	79730	3148	76907	2802	0.0%	0.2%
37 A259 East of Wick 24757 469 23880 417 40 2019 1.0305 1.0075 2.5512 473 24608 420 2026 1.0746 1.075 2.7415 508 26444 452 4 0 4 4 0 2.7419 508 26448 452 0.0%	36	A259, West of Church Street	25835	548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	491	2026	1.0746	1.075	28609			528	1	0	1	1 0	28610	594	27597	529	0.0%	0.1%
	37	A259 East of Wick	24757	469	23880	417	40	2019	1.0305	1.0075	25512	473	24608	420	2026	1.0746	1.075	27415	508	26444	452	4	0	4	4 0	27419	508	26448	452	0.0%	0.0%



# Annex B Figures



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# Annex C Construction Traffic Peak Movements



This table shows, for each access, the week when the total number of vehicle movements (all vehicles) is highest, and how many vehicles this would be. Additionally it seeks to represent the duration of this effect, by showing the number of weeks at which vehicle movements would be at or above 90% of this peak, as well as 75% and 50%.

Access	Peak Week	Two-way mov	ements					
		Total (LGV+HGV)	>=90% Threshold	No. of Weeks	>=75% Threshold	No. of Weeks	>=50% Threshold	No. of Weeks
A-01	70	244	220	1	183	5	122	16
A-05	72	1498	1348	2	1124	7	749	23
A-09	161	244	220	1	183	2	122	5
A-12	162	246	221	1	185	1	123	1
A-13	64	226	203	1	170	2	113	2
A-16	70	282	254	3	212	9	141	15
A-21	61	224	202	4	168	4	112	23
A-26	70	310	279	4	233	10	155	17
A-33	85	302	272	3	227	3	151	5
A-35	60	88	79	2	66	2	44	3
A-39	83	1656	1490	1	1242	2	828	29
A-40	116	222	200	1	167	5	111	13
A-42	122	128	115	2	96	2	64	4

Access	Peak Week	Two-way move	ements					
		Total (LGV+HGV)	>=90% Threshold	No. of Weeks	>=75% Threshold	No. of Weeks	>=50% Threshold	No. of Weeks
A-43	162	248	223	3	186	6	124	23
A-47	157	172	155	1	129	1	86	9
A-48	158	210	189	2	158	2	105	15
A-50	90	196	176	3	147	4	98	12
A-53	162	242	218	2	182	2	121	2
A-56	98	198	178	1	149	1	99	12
A-57	111	222	200	3	167	5	111	14
A-61	160	154	139	2	116	9	77	14
A-62	125	866	779	2	650	2	433	12
A-63	83	900	810	20	675	29	450	99
A-64	162	286	257	1	215	2	143	2
A-67	125	186	167	2	140	2	93	5
A-68	127	272	245	3	204	9	136	25



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