



**AQUIND Limited**

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# **AQUIND INTERCONNECTOR**

## **Environmental Statement – Appendix 22.1A Framework Traffic Management Strategy**

The Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations  
2009 – Regulation 5(2)(a)

Document Ref: 6.3.22.1A

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**AQUIND Limited**

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# **AQUIND INTERCONNECTOR**

Environmental Statement – Appendix ~~X.X~~  
~~Appendix Name~~ 22.1A Framework Traffic  
Management Strategy

PINS REF.: EN020022

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**AQUIND Limited**

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# **AQUIND INTERCONNECTOR**

Environmental Statement – Appendix ~~X.X~~  
~~Appendix Name~~ 22.1A Framework Traffic  
Management Strategy

WSP  
WSP House  
70 Chancery Lane  
London  
WC2A 1AF  
+44 20 7314 5000  
[www.wsp.com](http://www.wsp.com)

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<b>Prepared By</b>	S. Gander
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<b>Approved By</b>	<a href="#">C.</a> <del>C.</del> Williams
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Appendix 2 – [FTMS Drawings](#)

[Appendix 3](#) – FTMS Diversion Drawings

# 1. FRAMEWORK TRAFFIC MANAGEMENT STRATEGY

## 1.1. INTRODUCTION

1.1.1.1. This document provides details of the Framework Traffic Management Strategy ('FTMS') required in connection with the construction of the Onshore Cable which forms part of the Proposed Development, running from the proposed Converter Station in Lovedean, Hampshire to the Landfall at Eastney, Portsmouth. This FTMS sets out the overarching principles and methodology to be used during the construction of the Proposed Development and will be developed in further detail, as required by the Development Consent Order ('DCO'), by appointed contractors prior to commencement of each phase of the works.

1.1.1.2. This document is an updated version of the FTMS included within the original submission (APP-449), and thus should be taken to directly supersede the submission version. Updated information included within this document primarily relates to the following:

- [Revised installation rate assumptions for the Onshore Cable Route and how these impact upon the duration that traffic management is anticipated to be required along each section of the route;](#)
- [Provision of additional information on how access to properties will be maintained throughout the construction process; and](#)
- [Further information of the proposed communication strategy which will be implemented during the Construction Stage to ensure that residents, businesses and other stakeholders are kept up-to-date with details of the works.](#)

- 1.1.1.3. ~~1.1.1.2.~~ The FTMS should be read in conjunction with Appendix 22.1 (Transport Assessment) ('TA') of the Environmental Statement ('ES') Volume 3 (APP-137), the Supplementary Transport Assessment ('STA') (document reference 6.3.22.17.8.1.11), which details the anticipated impact on all forms of traffic and travel as a consequence of the construction of the Proposed Development and which in turn has informed the traffic management requirements to mitigate those anticipated impacts. Further details on the management of construction traffic in connection with the construction of the Converter Station and the Onshore Cable Route can be found within Appendix 22.2 (Outline Construction Traffic Management Plan) ('CTMP') of the ES Volume 3 (~~document reference 6.3.22.2~~), ~~which covers the construction of the Converter Station and Onshore Cable Route~~ APP-450 Rev 02), and the updated Framework Construction Traffic Management Plan (FCTMP) (APP-450 Rev003).
- 1.1.1.4. ~~1.1.1.3.~~ A key aspect of the FTMS is the proposed programme for ~~constructing the construction of~~ the Onshore Cable, which aims to mitigate the impacts of the works by taking account of key constraints and sensitive locations along the route. In relation to this, the FTMS provides an indicative programme for construction that considers environmental constraints, major events likely to be planned during the Construction Stage, school ~~terms~~ term times and the interaction between adjacent or nearby locations to minimise the impact ~~where possible~~ of the construction of the Onshore Cable Route in the highway.
- 1.1.1.5. It should be noted that this document forms an update to the previously submitted FTMS (APP-449 Rev002). The revisions undertaken reflect the further refinements of the Order Limits which have taken place post-submission.

## 2. OVERARCHING TRAFFIC MANAGEMENT PRINCIPLES

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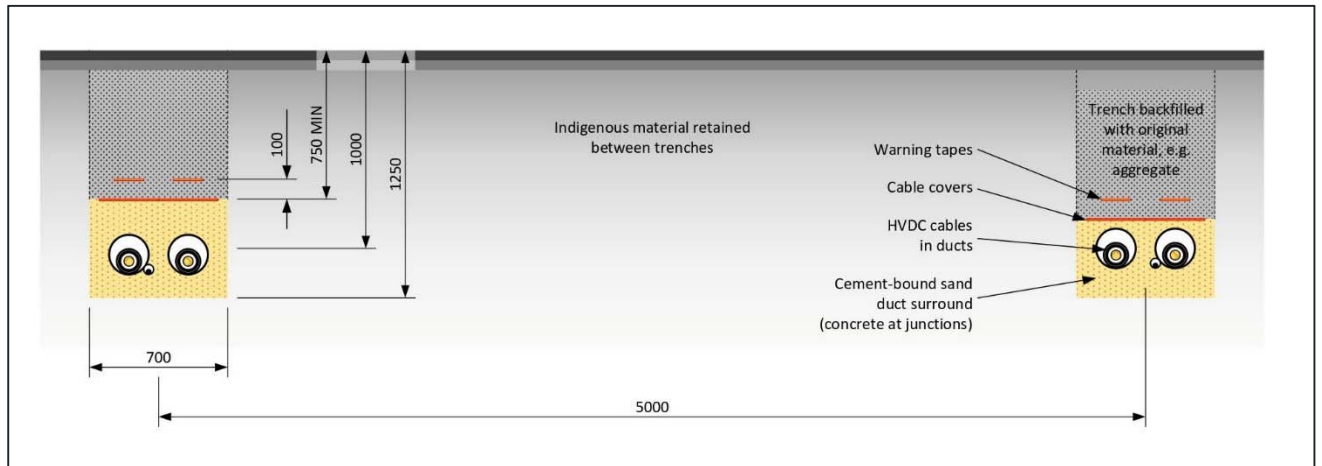
### 2.1. INTRODUCTION

2.1.1.1. The FTMS has been developed with the aim of minimising disruption to all road-users, including pedestrians, cyclists, public transport users and car drivers. This section sets out the principles that will be followed by contractors during the construction of the Onshore Cable. These principles will be included within the Technical Specification issued to contractors as part of the construction tender process, along with specific details of traffic management requirements at key sections of the Onshore Cable Corridor as described within this document.

### 2.2. DESCRIPTION OF UK ONSHORE CABLE CORRIDOR

2.2.1.1. The Onshore Components of the Proposed Development comprise the Converter Station, the Onshore Cable and the Landfall. Four High Voltage Direct Current ('HVDC') Cables (two circuits) are proposed to be installed in the Onshore Cable Corridor between the Converter Station and the Landfall. The Onshore Cables will be installed in two ducts per circuit, mostly in trenches or in certain specific locations via trenchless installation methods (e.g. Horizontal Directional Drilling ('HDD')). The proposed Onshore Cable passes through the urban areas of Waterlooville, Purbrook, Drayton and Portsmouth, with the Landfall located at Eastney.

2.2.1.2. A typical cross-section of the cable trench arrangement in the highway is shown in Plate 1-2 showing each pair of Direct Current ('DC') Cables in its own trench. Each excavated trench would typically be approximately 0.7 m in width but could increase to 1 m in order to facilitate the cables being installed deeper, when navigating existing utility services. In the majority of cases, parallel trenches will be excavated at separate times for each circuit.



**Plate 1 - Typical Arrangement of HVDC Cable in Road, Verges and Footpath**

2.2.1.3. The Onshore Components of the Proposed Development have been split into 10 sections for ease of description as follows:

- Onshore Cable Corridor Section 1 – Lovedean (Converter Station Area)
- Onshore Cable Corridor Section 2 – Anmore
- Onshore Cable Corridor Section 3 – Denmead/Kings Pond Meadow
- Onshore Cable Corridor Section 4 – Hambledon Road to Farlington Avenue
- Onshore Cable Corridor Section 5 – Farlington
- Onshore Cable Corridor Section 6 – Zetland Field and Sainsbury’s Car Park
- Onshore Cable Corridor Section 7 – Farlington Junction to Airport Service Road
- Onshore Cable Corridor Section 8 – Eastern Road (adjacent to Great Salterns Golf Course) to Moorings Way
- Onshore Cable Corridor Section 9 – Moorings Way to Bransbury Road
- Onshore Cable Corridor Section 10 – Eastney (Landfall)

2.2.1.4. ~~4.1.1.1.~~A plan showing these sections can be found in Chapter 3 (Description of the Proposed Development) of the ES Volume 1 (~~document reference 6.1.3~~[APP-118](#)). For the purposes of this study these Sections have also where appropriate been divided into shorter sub-sections as described in ~~Section 2 to 10~~[Sections 3 to 12](#) of this report.

2.2.1.5. ~~4.1.1.2.~~In some locations the Onshore Cable Corridor includes a number of route options. Where a number of options are present, these represent ~~alternate routes~~

~~which are still being considered~~ alternative route options due to constraints affecting the cable installation.

## 2.3. CONSTRUCTION METHODOLOGY OF ONSHORE CABLE ROUTE

2.3.1.1. During construction there will be a number of locations along the route at which construction work will be performed simultaneously, all of which will require traffic management measures when being completed in or immediately adjacent to roads. For the purposes of the FTMS, each location is referred to as a ‘construction zone.’ The stages of construction for the Onshore Cables are as follows:

- Excavation of the trench, installation of the cable ducts and reinstatement of the final grade;
- Excavation of Joint Bays;
- Provision for cable pulling, requiring space for cable drums and winches;
- Cable jointing work; and
- Filling of ducts, if necessary, to maintain thermal performance e.g. at locations of unexpected service congestion.

2.3.1.2. A conservative estimate of the installation rate for cable ducts is approximately ~~18-12~~ m – 30 m per 10-hour day shift per circuit, on average varying depending on the level of services and/or other constraints which are encountered, within urban areas and approximately 50 m per day in open country. These typical installation rates are per gang per shift and are dependent upon the level of obstacles and utility services encountered within the road or constraints that need to be observed to minimise impacts. At this stage ~~however it is estimated that construction of the Onshore Cable within the public highway will progress at a rate of 100 m per week per circuit, which is at the lower end of the 18 m – 30 m installation rate per day. All part weeks (e.g. 2 days) have also been rounded up to the next full week. Accordingly the assumptions regarding the rate of installation represent a robust and worst case analysis of construction periods on each section. the approximate likely construction progress has been estimated using available utility records. For the purpose of this assessment construction progress rates fall into four categories as is set out below:~~

- 50m / day in areas of “open country”;
- 30m / day in “Grassed areas with light service congestion”;
- 24m / day in “Roads with light service congestion”; or
- 12m / day in “Roads with heavy service congestion.”



- 2.3.1.3. When considering these installation rates across the entirety of the Onshore Cable Route the average assumed progress rate has been calculated at 100 m per week per circuit, which is consistent with the overall construction programme detailed within (Chapter 3 (Description of the Proposed Development) of the ES Volume 1 (APP-118). However, for the purposes of this document these construction rates have been applied as appropriate to each section of the Onshore Cable Corridor with revised durations of traffic management set out in the subsequent sections of the report.
- 2.3.1.4. For the durations set out in this document, all part days (e.g. 0.4 days) have been rounded up to full days and part weeks (e.g. 2 days) have also been rounded-up to the next full week. Accordingly, the assumptions regarding the rate of installation represent a very robust and worst-case analysis of the likely construction periods on each section.
- 2.3.1.5. ~~2.3.1.3.~~ The locations of the ducts within the road will be dictated by, amongst other factors, existing services. Where it is necessary to increase installation depth to clear existing services it may be necessary to increase the distance between ducts to avoid de-rating the circuits (i.e. when the cables operate at the maximum temperature and do not achieve the maximum required current carrying capacity).
- 2.3.1.6. ~~2.3.1.4.~~ Joint Bays will be positioned off of the highway (in highway verges, fields or other land) where possible, to limit the need for road closures associated with their installation, ~~but with~~ the final location ~~will be by selected by the contractor(s) to be confirmed as part of the detailed design approvals post the grant of the DCO for the Proposed Development.~~ It is preferable to avoid the need for the Onshore Cables to cross the highway to access a Joint Bay location.
- 2.3.1.7. Typically, it would take approximately 20 working days to complete one joint bay location. This timescale includes the excavation, set-up, cable pulling, jointing, bonding connections, testing and reinstatement (i.e. site cleared and reinstated to its original state). Each excavation will be approximately 15 m x 3 m, with additional space required at ground level for construction, cable installation, jointing and reinstatement, including a 20 m x 6 m 'compound' during jointing (for approximately one week).
- 2.3.1.8. The construction of the Onshore Cable Corridor on-carriageway will be undertaken by a maximum of six gangs working concurrently at any one time. These concurrent works will take into account the restrictions set out in Section 3 – Section 12 of this report.

2.3.1.9.

~~2.3.1.5.~~ There are ~~up to~~ six locations along the Onshore Cable Route where the ducts will be installed by trenchless installation methods. ~~These~~ None of these locations require the utilisation of highway land during construction and as such will not require traffic management measures.

## 2.4. NEW ROADS AND STREETS WORKS ACTS 1991

2.4.1.1. All works in the highway to be carried out as part of the construction of the Proposed Development will observe requirements of the New Roads and Street Works Act ('NRSWA') (HM Government, 1991). The DCO replicates relevant sections of the NRSWA to provide powers for the undertaker to carry out the following within the Order Limits:

- Break up or open the street, or any sewer, drain or tunnel under it;
- Tunnel or bore under the street or carry out works to strengthen or repair the carriageway;
- Place or keep apparatus in, or under the street;
- Maintain, renew or alter apparatus in, or under the street or change its position;
- Execute and maintain any works to provide hard and soft landscaping;
- Carry out re-lining and placement of road markings;
- Removal and Installation of temporary and permanent signage;
- Removal, replace and relocate and street furniture; and
- Execute any works required for or incidental to any works related to the above tasks.

2.4.1.2. Prior to commencement of works in the highway, detailed designs for the works and the traffic management measures will be submitted for approval to the relevant Highway Authority.

## 2.5. TRAFFIC MANAGEMENT METHODOLOGY OF ONSHORE CABLE ROUTE

2.5.1.1. In all cases the traffic management requirements will be based upon guidance included within the following documents to ensure the safety of all road-users and construction workers:

- Traffic Signs Manual Chapter 8: Traffic Safety Measures and Signs for Roadworks and Temporary Situations (Department for Transport, 2009);
- Safety at Streetworks and Roadworks: A Code of Practice (Department for Transport, 2013); and
- New Roads and Street Works Act 1991: Code of Practice of Co-ordination of Street Works and Works for Road Purposes and Related Matters (Fourth Edition) (Department for Transport, 2012).

2.5.1.2. Using this Guidance, the following assumptions have been used to inform the traffic management requirements of the construction process:

- It is anticipated that the cable duct installation will take place in 100 m sections, generally taking approximately five working days to complete each section including reinstatement of the highway; Where progress is anticipated to be slower, a shorter section may be used to ensure that each section is only in place for approximately one week:
- The Onshore Cable Route will include two circuits (as described in Section 2.2), with trench excavation and cable duct installation taking place at separate times for all parallel sections or ~~ircuit~~ circuits, except where road closures are required;
- The construction corridor will generally be 4.0-6.0 m wide and 100-150 m long, although this can be reduced by use of smaller plant to 2.0-3.0 m at local pinch points ~~if~~ where required to avoid road closures; and
- Construction on a footway will require 2.0 m on footway / verge and 3.0 m on carriageway to allow for construction vehicle access if no other parallel routes are available.

2.5.1.3. Taking account of these assumptions the following overall principles have been applied to the traffic management requirements for the Onshore Cable:

- Two-way traffic flow should be maintained wherever possible, albeit this may need to be facilitated by shuttle working, ~~temporary~~ temporary traffic signals and lane closures;
- Full road closures should only be ~~considered as~~ a last resort and where required pedestrian access should be maintained at all times. Where a full road closure is required, the programming of works should aim to minimise disruption where possible and provide for non-car modes, ensuring that safe and convenient routes are provided for pedestrians, cyclists and public transport users;
- Traffic management measures should provide for non-car modes, ensuring that safe and convenient routes are provided for pedestrians, cyclists and public transport users. Removal of such provision should only be considered as a last resort and where required must accompanied by suitable diversion routes.

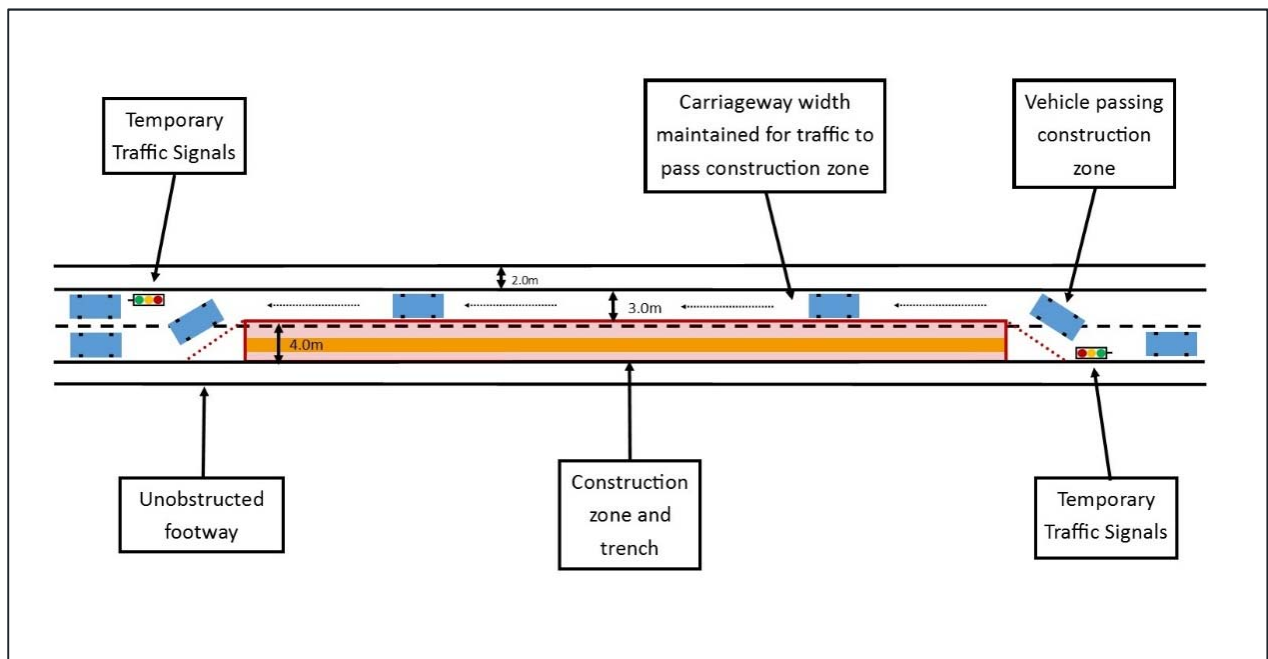
2.5.1.4. Where the carriageway width past the construction zone is 6.75 m or wider, two-way traffic flow will be maintained without traffic control.

## 2.5.2. TYPES OF TRAFFIC MANAGEMENT

2.5.2.1. Construction of the majority of the Onshore Cable Route will be facilitated through temporary lane closures, which will require different types of traffic management depending on the location of the trench within the highway and remaining carriageway width while the construction zone is in place. The main types of traffic management measures to be implemented are described below.

### Two-Way Shuttle Working with Temporary Traffic Signals

2.5.2.2. This type of traffic management will be employed along sections of the Onshore Cable Corridor that are single-carriageway two-lane (one in each direction) sections of highway ~~and allows~~, allowing two-way traffic flow to be maintained past the construction zone. A diagram showing a typical layout of shuttle-working traffic signals is shown in Plate 2, which will follow standard Chapter 8 of the Traffic Signs Manual (DfT, 2009).



**Plate 2 - Shuttle Working with Temporary Traffic Signals**

2.5.2.3. Where two-way shuttle-working is installed the minimum lane width past the construction zone will be 3.0m on routes used by buses / Heavy Goods Vehicles ('HGVs') and ideally 3.25-3.7 m. Where a route is used only by cars and Light Goods Vehicles ('LGVs') the lane width may be reduced to 2.5 m. This follows guidance contained within Chapter 8 of the Traffic Signs Manual (DfT, 2009) and reflects the

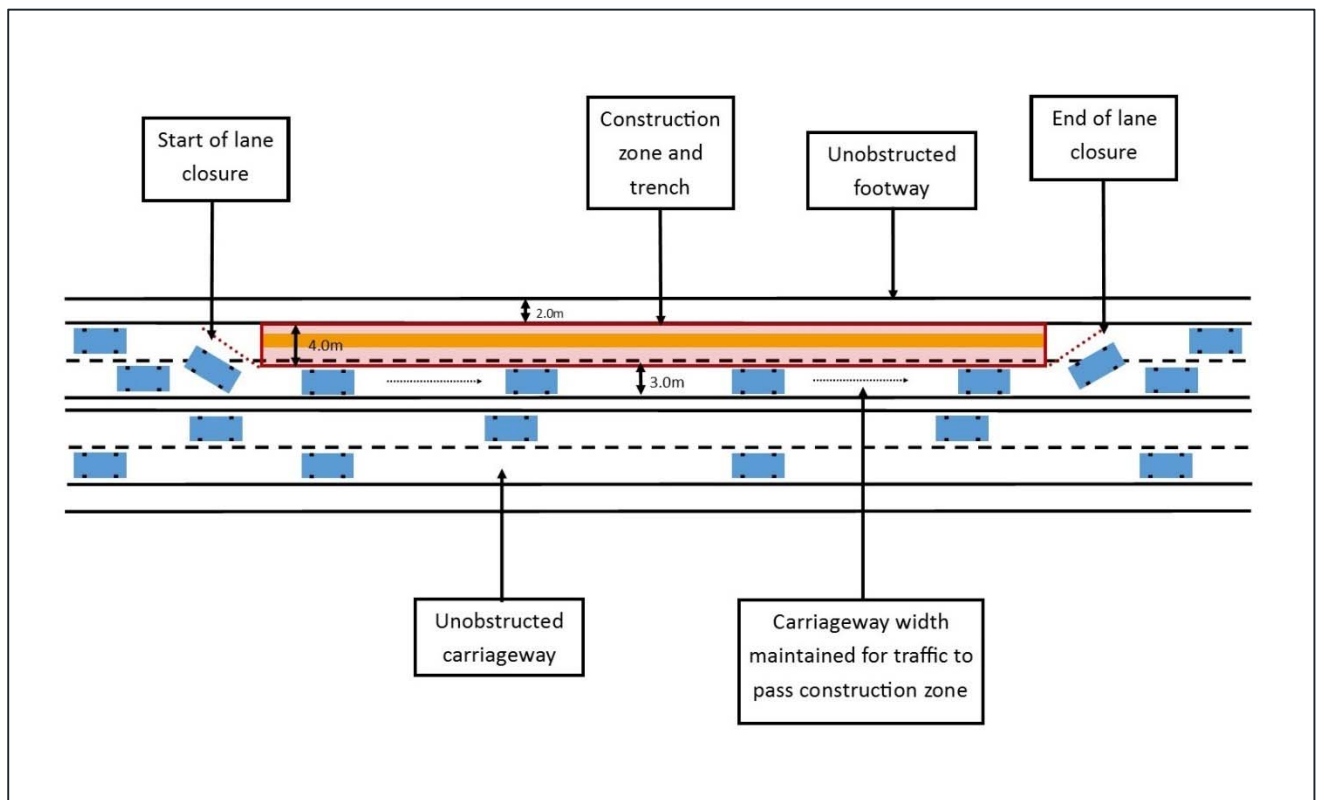
different road types that form part of the Onshore Cable Corridor. This means that the lane widths used will be defined by existing land-uses on any given street (e.g. residential or commercial) and access arrangements.

#### 2.5.2.4.

All shuttle-working traffic signals will run in Vehicle Actuated ('VA') mode during the off-peak period but be manually controlled during peak periods. With VA mode, detectors are used to monitor traffic flows and use this information to adjust the length of green-time to reduce delays. Manual operation during peak hours will allow traffic flow and queue lengths to be monitored, therefore giving the ability to mitigate blocking back of queues to adjacent or sensitive junctions.

### Lane Closures without Shuttle Working Traffic Signals

- 2.5.2.5. On wider single carriageway roads and dual carriageways, it may be possible for lane closure to be implemented without the need for traffic signal control. At these locations either the carriageway will be wide enough to accommodate two-way traffic and the construction zone through lane realignment, or a single lane closure will be required where there are two or more lanes in each direction
- 2.5.2.6. Plate 3 shows a diagram of single lane closure on a dual carriageway link, with the same setup also appropriate for single carriageway roads where there is more than one lane in each direction. An example of this is A3 London Road, where the majority of its length has two-general traffic lanes and at least one bus lane. This will follow the requirements of Chapter 8 of the Traffic Signs Manual (DfT, 2009).



**Plate 3 - Lane Closure without Shuttle Working Traffic Signals**

- 2.5.2.7. As with the shuttle-working the minimum lane width past the construction zone will be 3.0 m on routes used by buses / HGVs and ideally 3.25-3.7 m.

### **2.5.3. RESIDENTIAL AND BUSINESS ACCESS**

2.5.3.1. Residential and business access comes in two forms along the Onshore Cable Corridor:

- As direct access, through access junctions ~~or~~ driveways or vehicle crossovers directly onto residential or business premises; and
- Via side-road junctions that adjoin the Onshore Cable Corridor.

2.5.3.2. Included in Appendix 1 of this document is the 'Onshore Cable Route Construction Impacts on Access to Properties and Car Parking and Communication Strategy', hereby referred to as the 'Access to Properties Note', which gives specific consideration to the impacts of the Proposed Development upon parking and driveway access for residential properties, businesses and car parks located within or immediately adjacent to the Onshore Cable Corridor

2.5.3.3. ~~2.5.3.2. Residential~~ As is noted in the Access to Properties note, residential and business access will be maintained wherever possible, albeit with different traffic management approaches applied depending upon the circumstances as described below. It should be noted that the required traffic management will only be in place for 1-2 weeks for each individual side-road due to the way in which the construction corridor will progress in sections.

2.5.3.4. ~~2.5.3.3.~~ The type of traffic management is dependent on the location of the construction zone within the carriageway, which cannot yet be defined as detailed design of the traffic management will only be completed once a contractor is appointed. For example, side-roads on the northern side of the carriageway may not require temporary closure or traffic signal control when the construction zone is on the southern side of the carriageway. This will also apply to dual-carriageway and wide single-carriageway sections, where construction works on one side of the carriageway are unlikely to impact on the other side.

**Residential Driveway Access**

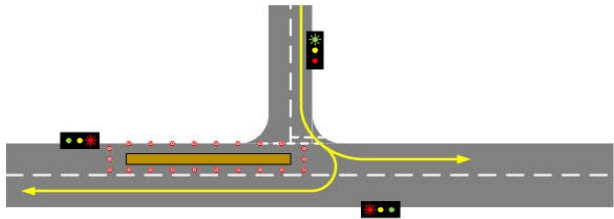


~~2.5.3.4. While residents will be informed about the construction works and encouraged to make alternative arrangements where possible, such as parking on-street, steel plating over the trench will be available during working hours (see Chapter 3 (Description of the Proposed Development) of the ES Volume 1 (document reference 6.1.3)) and in the case of emergencies. Where practicable, road plates may be installed outside of these times and construction fences removed to allow access over the construction zone.~~

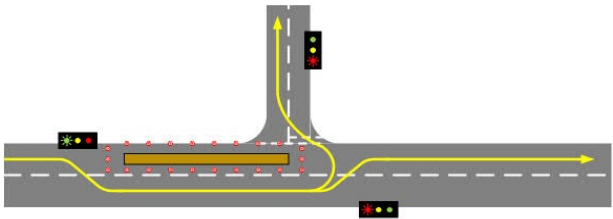
~~2.5.3.5. Where the construction zone falls on the opposite side of the carriageway to driveways access will be maintained at all times, but drivers will be made aware of construction works/ traffic signal control as appropriate.~~

**Business Access**

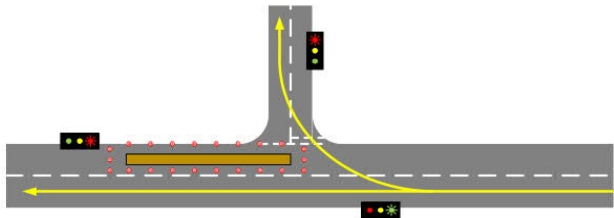
~~2.5.3.6. Access to business premises will be maintained using either three-way traffic signals, with excavation of the trench taking place in two phases to allow a 3.0 m access to be maintained at all times, or through use of road plates. This strategy is shown in Plate 4 below.~~



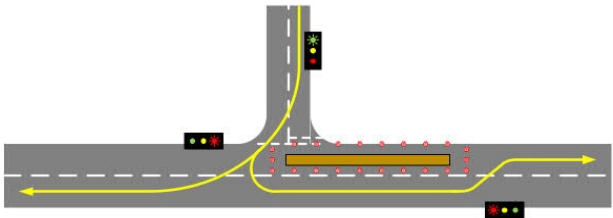
Construction zone approaching junction. Green signal on side-road / access allows vehicles to turn left and right along main road.



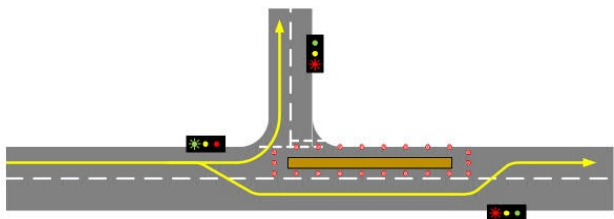
Construction zone approaching junction. Green signal on main road allows vehicles to pass construction zone and turn left into side-road / access.



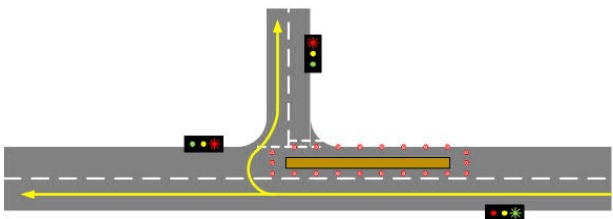
Construction zone approaching junction. Green signal on main road allows vehicles to turn right into side-road / access and pass construction zone.



Construction zone exiting junction. Green signal on side-road / access allows vehicles to turn left and right along main road.



Construction zone exiting junction. Green signal on main road allows vehicles to turn left into side-road / access and pass construction zone.



Construction zone exiting junction. Green signal on main road allows vehicles to pass construction zone and turn right into side-road / access.

**Plate 4 – Access to Business / Side-Roads**

~~2.5.3.7. This will be considered on an individual basis and will depend on the business and access arrangements.~~

**Side-Road Access**

2.5.3.5.

~~2.5.3.8.~~ Side-road access adjacent to the cable route will be considered on an individual basis with the traffic management used dependent on the characteristics of the road and junction. The strategy at this stage can be summarised as follows:

- For residential cul-de-sacs, side-road access will be maintained via either road plate or three-way traffic signals. The decision to use traffic signals will depend on the level of traffic flow and visibility from the side-road to the main road traffic signal approaches. Where visibility is poor, traffic signal control is likely to be required, although in all cases this will depend on the exact location of the construction zone;
- For side-roads that act as through-roads, temporary closure of the access will be considered but this depends on the category of road, what the side road provides access to and the suitability of diversion routes. Where closure is not an option, three-way traffic signals will be used if the location of the construction zone requires it.
- Where the side-road junction is controlled by traffic signals with the main road and where there is more than one approach lane at each entry, it may be possible to continue operating the existing signals through closure of a single lane on each entry. Where this is not possible, temporary traffic signals will be used instead of the existing control.

2.5.3.6.

~~2.5.3.9.~~ The exact traffic management strategy for side-road access will be agreed with the Highway Authority through submission of detailed designs and traffic management measures prior to commencement of works. It should be reiterated however that such traffic management will only be in place for a maximum of 1-2 weeks for each individual side-road and will be fully dependent upon the location of the Construction Zone.

**2.6. NOTICE PERIODS FOR CONSTRUCTION WORKS**

2.6.1.1.

It is intended that submission of detailed designs and traffic management measures for approval will be required not less than three months before the intended ~~comments~~ commencement of works on that part of the highway, with notice of the date on which the works are to start being provided not less than 14 days before those works commence. The application for approval to the relevant Highway

Authority will include the following information:

- ~~Description of proposed construction~~ plans detailing the extent of the works;
- ~~Details of location, including information on construction zone such as working areas, safety zones and storage requirements;~~
- ~~Timing and duration of works, including working hours and proposals for night working or weekend working where applicable;~~
- ~~An illustration of the construction works;~~
- ~~The technique to be used for underground works and depth of excavation;~~
- ~~Traffic management, parking and Temporary Traffic Regulation Measures (for which statutory approval will be secured by the DCO) that will be required to facilitate the works. This will include full details of footway / carriageway use where required;~~
- ~~Details of highway reinstatement, including whether interim or permanent and where interim when a permanent reinstatement is proposed to be carried out;~~
- ~~Contract details for the person appointed by the contractor to deal with any issues that may occur during the construction activity.~~

- the construction methodology in relation to the works including details of the hours of the day within which the works are to be carried out;
- a schedule of timings for the works, including the dates and durations for any closures of any part of the public highway;
- the **traffic management strategy** to be implemented in relation to those works, including details of any traffic signals and signs and any traffic regulation measures proposed in connection with those works;
- a schedule of condition of any part of the public highway to be affected by the works;
- a specification of the condition in which the parts of the public highway to be used for the works will be reinstated post completion of the works and occupation of that part of the public highway for that purpose;
- details of any lighting to be used in connection with the works for the duration that the works are being undertaken;
- contact details for the client and contractor carrying out the works;
- details of the advanced publicity to be carried out in connection with those works;
- details of the proposed approach to the reinstatement of the public highway in connection with those works, including (where applicable) details of both temporary and permanent reinstatement;

2.6.1.2. The construction methodology will require the work to be completed in a number of phases as the installation of the Onshore Cable progresses along a section of highway. Where possible, an application for approval will be submitted for multiple phases (such as whole cable sections between Joint Bays), albeit noting that individual approvals may be required for ~~each phase~~ smaller phases of work.

## 2.7. CONSTRUCTION PROGRAMME

2.7.1.1. An indicative onshore construction programme has been developed for construction works associated with the Proposed Development, taking account of factors such as environmental constraints, public events, school terms and public holidays.

2.7.1.2. The following wildlife events are taken into consideration and will be built into the phasing of enabling and construction works for the Converter Station and Onshore Cable:

- Badger breeding season from January to March;
- Bird breeding and nesting season from March to August;
- Plant growing season and winter wet season from August to November, at Kings Pond Meadow SINC and Denmead in Section 3; and
- Wintering bird season, from October to March.

2.7.1.3. Public activities and events that are likely to be planned in proximity to the Converter Station Area and Onshore Cable Corridor, including but not limited to the following are also taken into consideration:

- School term time;
- Football season;
- Coastal Waterside Marathon;
- Great South Run;
- South Central Festival; and
- Victorious Festival.

2.7.1.4. An indicative onshore construction programme for the Onshore Cable is as follows:

- HDD and Landfall installation: Q3 2021 – Q1 2024
- Onshore HVDC Route Construction / Installation: Q3 2021 – Q4 2023

2.7.1.5. Further to this indicative programme, consideration has been given ~~with~~-within the FTMS to the construction programme for each individual section of the Onshore Cable-. This considers the constraints listed above and links between nearby sections of the Onshore Cable Corridor, where for example multiple construction zones in the same area should be avoided. The programme for each sub-section is presented as a month-by-month calendar year with the following categories:

- Green – construction may be completed at any time within the month;
- Amber – construction may take place during part of the month only;
- Red – construction should be avoided during this month.

2.7.1.6. This programme will ~~help~~-mitigate the impacts of the construction works on the highway network.

## 2.8. COMMUNICATION STRATEGY

~~2.8.1.1. The communication strategy is recognised as a vital aspect of the construction phase. The communication strategy will allow key stakeholders (including the public), in~~

~~addition to Hampshire County Council (HCC) and Portsmouth City Council (PCC), to be kept up-to-date with the programme and progress of the construction works. To facilitate this, a dedicated contact for dealing with all matters relating to the construction programme and traffic management strategy will be provided.~~

~~2.8.1.2. The key stakeholders for the project in this regard in addition to HCC and PCC are as follows:~~

- ~~• Local residents and road users;~~
- ~~• Local businesses;~~
- ~~• Parish Councils and neighbourhood groups;~~
- ~~• Schools and colleges and University of Portsmouth;~~
- ~~• Portsmouth Football Club;~~
- ~~• Pedestrian and cycle groups;~~
- ~~• East Coast Solent Partnership;~~
- ~~• Highways England ('HE');~~
- ~~• Network Rail;~~
- ~~• Emergency services;~~
- ~~• Utility companies;~~
- ~~• First Group and Stagecoach bus companies~~
- ~~• Local Media (Portsmouth News and Petersfield Post)~~

~~2.8.1.3. Communication with these stakeholders will be completed through the following channels:~~

## ~~2.8.2. MEDIA~~

~~2.8.2.1. Regular news releases will be issued to Portsmouth News, Horndean Post and Hampshire Chronicle to publicise planned works along key sections of the Onshore Cable Corridor (e.g. B2150 Hambledon Road through Waterlooville, A3 London Road, Havant Road and A2030 Eastern Road).~~

~~2.8.2.2. In addition to press releases, engagement will also be completed with local radio stations to publicise the construction programme as part of their traffic bulletins.~~

## ~~2.8.3. AQUIND INTERCONNECTOR CONSULTATION WEBSITE~~

~~2.8.3.1. The existing AQUIND Interconnector consultation website will be updated throughout the construction period with details of current and programmed construction works.~~

~~2.8.4. ROADWORKS.ORG~~

~~2.8.4.1. Through liaison with HCC / PCC through the streetworks process, all construction works will be added to the roadworks.org website as programmed. This will allow the public to keep up to date on current and programmed works;~~

~~2.8.5. MEMBER / PARISH COUNCIL BRIEFINGS:~~

~~2.8.5.1. Where appropriate, local members and parish councils will be briefed on upcoming works as a means of distributing information to the local community. This will also be key to managing expectations of disruption at key locations along the Onshore Cable Corridor.~~

~~2.8.6. LETTER / LEAFLET DROPS WITH RESIDENTS AND BUSINESSES~~

~~2.8.6.1. Letter drops will be completed to residential and business properties directly affected by the proposed construction works. This will allow residents and businesses to change travel plans where appropriate and help minimise disruption.~~

~~2.8.7. FACE-TO-FACE CONTACT WITH RESIDENTS AND BUSINESSES~~

~~2.8.7.1. In some cases, it may be appropriate to meet with residents and businesses to discuss the construction works in more detail and respond to any specific access requirements.~~

2.8.1.1. [The communication strategy for the construction of the Onshore Cable Corridor is included in the Access to Properties Note which is included in Appendix 1 of this document.](#)

2.8.1.2. [In summary, the communication strategy includes further details regarding the high-level timeline and nature of communications activities to be undertaken at all stages of the construction of the Onshore Cable Route. The strategy includes details of identified stakeholders, any challenges which may face communications that have been identified and a working plan of actions to be undertaken prior to and during the works, as well as an evaluation strategy for after works have been completed.](#)

2.8.2. **2.8.8. SIGNAGE**

2.8.2.1. [Additional to the communication methodologies set out in the Access to Properties Note, a signage strategy is proposed to communicate proposals to road users who may otherwise be unaware of the construction works and associated traffic management.](#)

2.8.2.2. [2.8.8.1. On the highway network itself, the provision and location of signage will be an important factor in notifying road users of programmed construction works. While](#)



there will be 'Advanced Warning' signs placed on the highway before the works detailing start-date and periods of works, it is also intended that Variable Message Signs ('VMS') are provided at key locations along the Onshore Cable Corridor. These will be installed at least one week prior to commencement of the construction works along each section of highway

### 2.8.2.3.

~~2.8.8.2.~~ The use of VMS signs is proposed as these are considered more conspicuous than standard Advance Warning' signs and can be easily updated to reflect the intended programme of works. At this stage it is recommended that VMS signs are installed at the following locations:

- At the A3 London Road / Hulbert Road roundabout to warn road users of construction works on either B2150 Hambledon Road or A3 London Road;
- At the A3 London Road / Southampton Road / Spur Road roundabout in Cosham to warn road users of construction works on A3 London Road;
- At the A27 / A2030 Eastern Road roundabout in Farlington and A2030 Velder Avenue / Milton Road traffic signal junction in Fratton to warn road users of construction works on Eastern Road; and
- On Havant Road east and west of the junction with Farlington Avenue and Eastern Road to warn road users of construction works through this junction.

### 2.8.2.4.

~~2.8.8.3.~~ The location and full details of these signs will be agreed with each Highway Authority prior their implementation. It is noted that HCC used these at the A3 London Road / Hulbert Road roundabout prior to resurfacing of the A3 London Road in 2018.

## **2.9. PEDESTRIANS AND CYCLISTS**

### 2.9.1.1.

Pedestrian and cycle routes along the Onshore Cable Corridor will be maintained wherever possible, with full closure considered as the last resort, such as where it would prevent full closure of a major road. In all cases the construction works will ensure that pedestrians and cyclists can pass in a safe manner, with suitable barriers between the construction works. Particular attention will also be paid to the needs of people with mobility and visual impairments to ensure that their safety and free movement is retained. All layouts will follow protocol defined by Chapter 8 of the Traffic Signs Manual (DfT, 2009).

### **2.9.2. PEDESTRIANS**

#### 2.9.2.1.

Where construction works do obstruct a footway a minimum unobstructed width of 1.0 m will be provided alongside the construction corridor and where this is not possible a safe alternative route will be provided. This will include provision of suitable crossing facilities where required, including temporary replacement of existing

pedestrian crossings that may need to be closed to facilitate construction.

2.9.2.2. In some locations, a footway closure may be required without a suitable alternative route being available nearby or on the opposite side of the carriageway. In these instances, a pedestrian route will be provided within the carriageway with a minimum unobstructed width of 1.0 m, albeit this will be wider where it does not impact on traffic flow. Suitable barriers will be provided, along with ramps and footway boards where these are required.

2.9.2.3. Some temporary footway closures may be required to facilitate delivery and collection of materials. In the majority of cases this will be mitigated through alternative footway links being available but where this is not possible, the following will apply:

- The footway will be closed for no longer than 15 minutes in every one-hour period;
- Construction operatives will be made available to assist users past the works;
- Pedestrians with impaired mobility will need to wait no longer than 5 minutes; and
- Temporary footway closure signs are provided in place of the works.

### 2.9.3. CYCLISTS

- 2.9.3.1. Where there are shared-use paths or cycleways impacted by the works these will be kept open if possible, or a suitable diversion route provided.
- 2.9.3.2. Where full closure of cycle route is necessary and diversion routes are unsuitable temporary cycle facilities will be provided past the construction corridor where possible, such as on the Eastern Road shared-use path. This could be completed as part of a full lane closure or through provision of a temporary off-road route. The width of these temporary routes will be 2.5 m where possible, with a minimum of 1.5 m. If the temporary route is provided over unmade ground, then footway boards will be used to provide a formal surface.
- 2.9.3.3. In some cases it may be required to narrow a shared-use path past the construction corridor to a width that is not suitable for cycle use (i.e. 1.0 m). In these circumstances 'Cyclists dismount and use footway' signs will be used as a last resort, noting that this would only be completed for one 100 m section at a time.
- 2.9.3.4. Where road closures are required for construction of the Onshore Cable Route cycle access will be maintained at all times.

### 2.10. PUBLIC TRANSPORT

- 2.10.1.1. During construction of the Onshore Cable Route some existing bus stops may need to be closed depending upon the exact location within the carriageway or footway. Where this is required, a temporary bus stop will be provided as close as possible to the original location, taking into account highway safety of all road users.
- 2.10.1.2. Construction of the Onshore Cable Route within the A3 London Road will require works within the existing bus lane or suspension of the bus lane to mitigate the impact on general traffic flow. As with the rest of the Onshore Cable Corridor this will be completed in 100 m sections and therefore bus priority will be maintained where the bus lane is suspended through provision of temporary bus priority traffic signals.

### 2.11. SCHOOL ACCESS

- 2.11.1.1. Construction of the Onshore Cable Route will take place during school holidays on links that contain schools or where they are located directly adjacent to the Onshore Cable Corridor. This includes the following links and schools:
- Solent Junior School on Solent Road and Solent Infant School on Eveleigh Road, adjacent to Farlington Avenue; and
  - Mooring Way Infant School, Moorings Way.
- 2.11.1.2. Consideration will also be given to schools located close to the Onshore Cable

Corridor, given the potential wider re-distribution impact of the construction works.

## 2.13.

## **2.12. RESPONSIVE TRAFFIC MANAGEMENT PROTOCOL**

### 2.13.1.1.

~~2.12.1.1.~~ It is proposed that the FTMS required to support the Proposed Development operates as a 'live' and responsive strategy. This means that, in continuous liaison with HCC / PCC (as appropriate), an approved TMS will be amended where required to reflect traffic conditions and events that may impact upon the construction works or capacity of the highway network surrounding the Onshore Cable Corridor. Examples of this can include:

- a protocol to temporarily suspend and remove works or alter traffic management strategies if a road traffic accident ~~or other,~~ emergency event or other unforeseen circumstances occur on either the Onshore Cable Corridor or surrounding network requires road closures and diversion of traffic;
- where the construction zone is at key junctions within the network, management of traffic signals adjacent to the Onshore Cable Corridor during peak hours to ensure signal timings reflect additional traffic flows;
- Management of traffic signal junctions along diversion routes associated with road closures;
- Provision of traffic marshalling around schools adjacent to the Onshore Cable Corridor to mitigate the impact of traffic redistribution onto such links.

### 2.13.1.2.

~~2.12.1.2.~~ The ability of the FTMS to respond to events away from the Onshore Cable Corridor itself will mitigate impact of the works should these events occur. This is particularly important for the A3 London Road and A2030 Eastern Road, both of which experience a significant increase in traffic flow when there are road traffic accidents on either the A3(M) or M275. In this regard, the dDCO (APP-019) contains the following Protective Provisions:

- Paragraph 10 of the protective provisions for the protection of the highway provides the ability for the highway authority to provide directions in relation to the works:
  - o Where an emergency occurs or where necessary to secure the safety of the public;
  - o Where works are being carried out in any manner which constitutes or is likely to constitute a danger to any person or class or persons or to affect the stability or integrity of any structures or apparatus including the public highway; and
  - o Where, as a consequence of unforeseen circumstances, in the reasonable opinion of the relevant highway authority any part of the works being carried out or to be carried out within the public highway are causing or are likely to

cause serious disruption to traffic that will endanger the safety of the public.

- Paragraph 4(2) of the protective provisions for the protection of the highway provides for any detailed traffic management strategy to be revised where necessary in the event of unforeseen circumstances.

2.13.1.3.

~~2.12.1.3.~~In addition to this, the CTMP includes provision for a road safety officer, who will be responsible for the continual monitoring of the road works for the Onshore Cable Route to ensure the proactive management of road safety. They will ensure there is sufficient road signage to warn the public and inform construction related traffic to ensure compliance and route choice. There will also be contact telephone numbers for public to raise concerns as well as the provision of a website. Receptors that attract vulnerable people will be updated on a regular basis with visits (e.g. schools) as necessary.

2.14.

~~2.13.~~**EMERGENCY SERVICES**

2.14.1.1.

~~2.13.1.1.~~The Onshore Cable Corridor runs past a number of emergency services locations therefore meaning that access by emergency vehicles will need to be actively managed ~~where possible~~ to minimise delays. The Onshore Cable Corridor runs nearby or adjacent to the following bases:

- Waterloo Fire Station - A3 Maurepas Way;
- Eastern Road Ambulance Station, albeit this does not provide emergency response; and
- Eastney Lifeboat Station – Ferry Road.

2.14.1.2.

~~2.13.1.2.~~At Waterloo Fire Station access will be maintained at all times by excavation of the trench taking place in two phases to allow a suitable width access between works or through use of road plates.

2.14.1.3.

~~2.13.1.3.~~In proximity to Eastney Lifeboat Station, the works along Fort Cumberland Road will be facilitated by shuttle working traffic signals. This will maintain access to Ferry Road and the Lifeboat Station at all times.

2.14.1.4.

~~2.13.1.4.~~Along the remainder of the Onshore Cable Corridor each construction location zone will be setup to ensure access by emergency vehicles is achievable. To facilitate access and minimise delay through the works, a protocol will be setup for management of temporary signals. This could include implementation of an ‘all red’ phase to clear the construction zone of traffic or extended green times to give priority to an approaching vehicle.

2.14.1.5. ~~2.13.1.5.~~ Under the responsive traffic management protocol described in Section 2.12 there will also be an option to temporarily suspend works if required to mitigate the impacts of the road traffic accident or other emergency event in proximity to the Onshore Cable Corridor.

2.14.1.6. Where there are full road closures, road plates will be available at the point of work at all times, should emergency access be required. At the end of the working day road plates would be installed to allow for out of hours emergency access only. Out of hours emergency access will be provided by an onsite standby emergency team.

2.14.1.1. In addition, the Applicant will seek to produce a communication plan in conjunction with the emergency services to address the specific needs of the emergency services during the construction. The communication plan will outline the relevant procedures to be followed by both parties with regard to the dissemination of information and how emergency access will be safeguarded and delivered through each individual phase.

### 3. SECTION 1 – LOVEDEAN (~~CONVERTOR~~ CONVERTER STATION AREA)

3.1.1.1. The Onshore Cable Route will not be constructed within public highway within Section 1-2 but some traffic management will be required to facilitate construction of the temporary and permanent access junction for the Converter Station. This is described below and shown on Drawing EN02022-TMS-1 included in Appendix ~~4~~2 to this FTMS.

~~3.1.1.2. Broadway Lane and Day Lane within the vicinity of the Converter Station Area are rural lanes without street lighting of footways and are subject to a national speed limit (60 mph).~~

3.1.1.2. TM will also be required where the Onshore Cable Corridor crosses Broadway Lane at approximately 200 m east of the junction with Edney's Lane

### 3.2. SUB-SECTION 1.1 - CONVERTER STATION ACCESS JUNCTION

3.2.1.1. Construction of the Converter Station access junction / access road will be primarily constructed 'off-line' in order to avoid impacting upon traffic flow along Broadway Lane and Day Lane. However, it is likely that construction work on each access junction bellmouth will require some limited narrowing of the existing carriageway, which will only accommodate one-way traffic flow. This will be accommodated by the implementation of three-way temporary traffic signals to control traffic flow in the vicinity of the access. The exact location of the temporary traffic signals will be determined by the contractor(s), however, it is envisaged that these would be located as follows to provide adequate visibility for approaching traffic:

- Adjacent to Broadway Cottages on Broadway Lane south of the proposed access junction;
- 20 m north of the give-way line on Broadway Lane north of the proposed access junction (at the junction with Day Lane); and
- 75 m east of the junction of the Broadway Lane / Day Lane junction on Day Lane.

3.2.1.2. Broadway Lane and Day Lane within the vicinity of the Converter Station Area are currently rural lanes without street lighting of footways and are subject to a national speed limit (60 mph).



3.2.1.3. ~~3.2.1.2.~~ To reduce traffic speeds within the vicinity of the access works it is also proposed that a temporary 30 mph speed limit is implemented.

3.2.1.4. ~~3.2.1.3.~~ The timeframe for this traffic management to be in place will be dependent upon the construction schedule of the access junction. Currently, the anticipated programme for these works suggests that traffic management will need to be in place for 8-12 weeks to facilitate construction of the access junction.

3.2.1.5. Table ~~13.2.1.4.~~ shows a breakdown of the calendar year, showing availability for the construction of the access works to take place within this Section.

**Table 1 – Section 1 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
<u>1</u> .1	Converter Station Access	TBC	Shuttle Working	8-12 weeks							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: <del>N/A</del> <a href="#">2 week restriction at Christmas / New Year</a>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
None						<del>52 Weeks</del> <a href="#">50 weeks</a>					

3.2.1.6. ~~3.2.1.5.~~ This shows that construction can take place during any month of the year. It is also considered that there are no constraints on the construction programme presented by works on adjacent sections of the Onshore Cable Corridor.

## ~~4. SECTION 2 ANMORE~~

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### 3.3. SUB-SECTION 1.2 – BROADWAY LANE

3.3.1.1. ~~4.1.1.1.~~The Onshore Cable Route will run north to south through Section 2. The Onshore Cable Corridor in this Section is primarily within agricultural fields. The only impacted public highways in this Section will be TM is required in Sub-Section 1.2 at the intersection of the Onshore Cable Corridor and Broadway Lane. The Onshore Cable Corridor crosses Broadway Lane at approximately 200 m east of the junction with Edney's Lane.

3.3.1.2. ~~4.1.1.2.~~Below is a breakdown of the calendar year, showing availability for the construction of the Onshore Cable Corridor to take place within this Section.

**Table 2 - Section 1.2 Programme Availability**

Section		Description				Length (m)	Proposed TM	Duration Per Circuit			
<u>1.2</u>		Broadway Lane				6	Road Closure	1 Day			
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: <del>N/A</del> <u>2 week restriction at Christmas / New Year</u>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
Section 3.1 – 2 weeks						<del>50</del> <u>48 weeks</u>					

3.3.1.3.

~~4.1.1.3.~~ Programming of these works at separate times to Section 3.1 will minimise the impact resulting from the proposed traffic management strategy for Broadway Lane and Anmore Road.

3.4.

**4.2. DESCRIPTION OF TRAFFIC MANAGEMENT**

3.4.1.1.

~~4.2.1.1.~~ It is likely that a full road closure will be required to allow the Onshore Cable to cross Broadway Lane. It is anticipated that this road closure will need to be in place for one day per circuit. This is described below and shown on Drawing EN02022-TMS-1 and EN02022-TMS-2 included in Appendix ~~4~~ 2 to this FTMS.

3.4.1.2.

~~4.2.1.2.~~ A diversion route will need to be implemented to mitigate the impact of the proposed road closure on Broadway Lane. The diversion route will need to take account of the following:

- The nature of rural lanes within the vicinity of the road closure and their suitability for accommodating diverted traffic; and
- The general origin and destination of traffic using Broadway Lane.

3.4.1.3.

~~4.2.1.3.~~ Taking account of these factors, it is recommended that diversions be implemented that route traffic via Edney's Lane, Anmore Road, Anmore Lane and Broadway Lane as shown in Drawing EN02022-TMS-11 included in Appendix 2 to this FTMS. Taking into account this proposed diversionary routing, the closure of Broadway Lane should be scheduled so as to not coincide with construction in Anmore Road, a link which is contained within Section 3 of the Onshore Cable Corridor.

3.4.1.4.

~~4.2.1.4.~~ Appropriate signage will be provided along this diversion at all appropriate junction locations. Broadway Lane to the east of the Onshore Cable Corridor provides the sole vehicular access to several residential properties, as well as to the Lower Chapters Bed and Breakfast. Broadway Lane to the east of the Onshore Cable Corridor will remain open to ensure access to properties and the ~~bed~~ Bed and ~~breakfast~~ Breakfast is retained throughout the duration of works

## 4.            SECTION 2 - ANMORE

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4.1.1.1.        The Onshore Cable Corridor in Section 2 is contained entirely within agricultural fields and does not include or intersect any highway, as such, no TM is required in this Section.

## 5. SECTION 3 – DENMEAD/KINGS POND MEADOW

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- 5.1.1.1. As with Section 2, the Onshore Cable Corridor within Section 3 is contained primarily within agricultural fields. However, there are two limited sections of public highway which are likely to be impacted within this section. The impacted highway includes the following:
- **Sub-Section 3.1:** Anmore Road: up-to ~~180~~50 m between agricultural fields to the north and south; and
  - **Sub-Section 3.2:** B2150 Hambledon Road to Soake Road (180m).
- 5.1.1.2. Both of these links are likely to require traffic management to facilitate the construction of the Onshore Cable Route. The construction works within this section are likely to take a maximum of 1-2 weeks to complete per circuit.

### 5.2. SUB-SECTION 3.1 – ANMORE ROAD

- 5.2.1.1. Table 3 below provides a summary of the traffic management requirements for Section ~~3.1~~3.1 Table 3 – Sub-Section 3.1 Programme Availability

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
3.1	Anmore Road	<del>1606</del>	Road Closure	1 Day <del>to 2 Weeks</del>							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<u>Notes on Calendar Restrictions: 2 week restriction at Christmas / New Year</u>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
Section <u>1.2</u> – 1 week ( <u>rounded up from 1 day</u> ) <u>Sub-Section 3.2</u> – <del>2</del> <u>3</u> weeks						<del>49</del> <u>46</u> weeks					

5.2.1.2. Programming of these works at separate times will minimise the impact resulted from the proposed traffic management strategy for Broadway Lane and ~~Anmore~~ the B2150 Hambledon Road. (Section 3.2).

### DESCRIPTION OF TRAFFIC MANAGEMENT

5.2.1.3.

The Onshore Cable Corridor will cross Anmore Road between agricultural fields to the north and south, requiring a full road closure for the period of the construction works. ~~At this stage, the exact cable alignment has not been determined, and there are two possible route options for each circuit to cross Anmore Road. The proposals are shown on Drawing EN02022-TMS-2 included in Appendix 1 to this FTMS. The possible options for cable routing in this location are as follows:~~ The Onshore Cable Corridor will intersect Anmore Road in a north-south orientation, whilst moving from the fields to the immediate north of the carriageway, to those in the south. Works in Sub-Section 3.1 will only impact upon a limited section of highway, and would require a one-day road closure per circuit.

- ~~• The first option is for the Cable to intersect Anmore Road in a north-south orientation, whilst moving from the fields to the immediate north of the carriageway, to those in the south. As this would mean the cable route only impacts a limited section of highway, this option would likely require a one-day road closure per circuit; and~~
- ~~• The second option is for the cable route to run along Anmore Road in an east-west alignment for an up to 160m section between the northern field (opposite Soake Road / Clifton Crescent) and southern field (west of 142 Anmore Road). This option would likely require a 2-weeks closure per circuit.~~

~~5.2.1.4.~~

~~If the second route option is used, access to residential properties will be restricted for vehicles for the entire period of construction. This will impact up to three residential properties, with alternative on-street parking available on Clifton Crescent.~~

5.2.1.4.

~~5.2.1.5.~~ As is stated above, any road closures on Anmore Road should be scheduled to avoid coinciding with any closure of Broadway Lane. The recommended diversion route for the road closure on Anmore Road is via Mill Road, B2150 Hambledon Road and Soake Road as shown in Drawing EN02022-TMS-11 included in Appendix ~~2-3~~ to this FTMS.

5.2.1.5.

~~5.2.1.6.~~ Taking into account this proposed diversion, it is also recommended that the closure of Anmore Road should not take place at the same time as any works on B2150 Hambledon Road (Section 3.2).

**5.3. SUB-SECTION 3.2 ~~==~~ B2150 HAMBLEDON ROAD TO SOAKE ROAD**

5.3.1.1.

Within Sub-Section 3.2, the Onshore Cable Corridor includes a section of B2150 Hambledon Road between the point from which the cable exits the agricultural fields, to the junction with Soake Road. Table 3 below provides a summary of the traffic management requirements for Section 3.2.





**Table 4 – Sub-Section 3.2 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
3.2	B2150 Hambledon Road to Soake Road	180	Shuttle working TS	<del>2</del> <u>3</u> weeks							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<a href="#">Notes on Calendar Restrictions: 2 week restriction at Christmas / New Year</a>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<del>Section 4.1 – 13 weeks</del> <del>Section 4.2 – 10 weeks</del> <del>Section 4.31 – 1 week</del> <del>Section 4.33 – 3 weeks</del> <del>Section 4.34 – 2 weekends</del> <del>Section 4.35 – 2 weeks</del> <u>Sub-Section 4.1 – 22 weeks</u> <u>Sub-Section 4.2 – 14 weeks</u> <u>Sub-Section 4.31 – 2 weeks</u> <u>Sub-Section 4.33 – 5 weeks</u> <u>Sub-Section 4.34 – 4 weekends</u> <u>Sub-Section 4.35 – 3 weeks</u>						<del>23</del> <u>4</u> weeks					

- 5.3.1.2. Programming of Section 3.2 works will be undertaken at separate times to that scheduled for
- Section 4.1 - B2150 Hambledon Road between Soake Road and Milton Road;
  - Section 4.2 - B2150 Hambledon Road and A3 Maurepas Way between Milton Road and A3 London Road (1.0 km); and
  - Sections 4.31, 4.33, 4.34 and 4.35 - All sections of A3 London Road between A3 Maurepas Way and Ladybridge Road that require shuttle working traffic signals.

5.3.1.3. This phasing of works will mitigate disruption to traffic flow within the Denmead and Waterlooville area, particularly those trips which travel along the B2150 Hambledon Road and A3 London Road to / from Purbrook, Cosham and Portsmouth. Specifically, it will ensure that there is not more than one location of traffic management that requires shuttle working on B2150 Hambledon Road, A3 Maurepas Way and A3 London Road at any one time.

5.3.1.4. Sub-Section 4.32 has intentionally been omitted from the restrictions because unlike sub-sections 4.1, 4.2, 4.31, 4.33, 4.34 and 4.35, the traffic management involves a bus lane closure rather than a general traffic lane closure. This is considered to be less disruptive from a traffic management perspective, meaning works associated with Sub-Section 4.32 can occur simultaneously with Sub-Section 3.2 if required.

### DESCRIPTION OF TRAFFIC MANAGEMENT

5.3.1.5. ~~5.3.1.2.~~ Construction along this section of B2150 Hambledon Road will likely require implementation of single lane closure, with shuttle working being implemented through the use of temporary traffic signals to allow for continued two-way traffic flow. Where the cable enters / exits agricultural fields, the construction corridor will be phased / managed in line with the standard protocol set out in the technical specification issued to contractors in order to ensure that a continuous pedestrian link is provided along the northern side of the carriageway.

5.3.1.6. ~~5.3.1.3.~~ Where the Onshore Cable Corridor intersects the junction with Soake Road, temporary three-way traffic signals may need to be implemented to allow continuous access to the Byng's Business Park and Jewson Builders Merchant at the southern end of Soake Road. This will mitigate the need for HGV's wishing to access these businesses from using the less suitable Anmore Road / northern half of Soake Road as a temporary diversion route.

5.3.1.7. ~~5.3.1.4.~~ No residential properties are impacted by this section of the Onshore Cable Corridor.

## 6. SECTION 4 – HAMBLEDON ROAD TO FARLINGTON AVENUE

- 6.1.1.1. This section provides a summary of the proposed TMS for the longest section of the Onshore Cable Corridor, which runs from B2150 Hambledon Road between Denmead and Waterlooville and Burnham Road in Farlington. This section has been split into ~~six~~ five sub-sections, based upon similarities in road types and commonalities in traffic management requirements. The total length of this section is 6.7 km, and the sub-sections are as follows:
- **Sub-Section 4.1** – B2150 Hambledon Road between Soake Road and Milton Road;
  - **Sub-Section 4.2** – B2150 Hambledon Road and A3 Maurepas Way between Milton Road and A3 London Road;
  - **Sub-Section 4.3** – A3 London Road to Ladybridge Roundabout;
    - **Sub-Section 4.31** – A3 London Road between Forest End Roundabout and south of the junction with Forest End;
    - **Sub-Section 4.32** - A3 London Road between south of junction with Forest End and southern end of bus lanes (in proximity to Poppy Fields);
    - **Sub-Section 4.33** - A3 London Road between south of southern end of bus lanes (in proximity to Poppy Fields) and Post Office Road;
    - **Sub-Section 4.34** - A3 London Road between Post Office Road and Rocking Horse Nursery;
    - **Sub-Section 4.35** - A3 London Road between Rocking Horse Nursery and Ladybridge Roundabout;
  - **Sub-Section 4.4** – A3 London Road to Portsdown Hill Road;
    - **Sub-Section 4.41** - A3 London Road between Ladybridge Roundabout and start of bus lane;
    - **Sub-Section 4.42** - A3 London Road between start of bus lane and Lansdowne Avenue;
    - **Sub-Section 4.43** - A3 London Road between Lansdowne Avenue and bus lane (south of The Brow);

- o **Sub-Section 4.44** - A3 London Road between bus lane (south of The Brow) and Portsdown Hill Road; and

- **Sub-Section 4.5** – B2177 Portsdown Hill Road.

6.1.1.2. The FTMS proposals for Section 4 are shown on Drawing EN02022-TMS-3, 4 and 5 included in Appendix ~~4~~2

## 6.2. SUB-SECTION 4.1 – B2150 HAMBLEDON ROAD BETWEEN SOAKE ROAD AND MILTON ROAD

6.2.1.1. Section 4.1 includes the section of B2150 Hambledon Road between the junction with Soake Road and the roundabout with Milton Road. All of B2150 Hambledon Road in this subsection is single carriageway and is subject to a 30 mph speed limit.

6.2.1.2. Table 5 shows availability for the construction of the Onshore Cable Route to take place within this subsection.

**Table 5 – Sub-Section 4.1 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
4.1	B2150 Hambledon Road between Soake Road and Milton Road	1300	Shuttle working TS	<del>8-13</del> <u>11-22</u> weeks							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: 2 week restriction <del>due to</del> <u>at</u> Christmas- / <u>New Year</u>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<del>Section 3.2 = 2 weeks</del> <del>Section 4.2 = 10 weeks</del> <del>Section 4.31 = 1 week</del> <del>Section 4.33 = 3 weeks</del> <del>Section 4.34 = 2 weekends</del> <del>Section 4.35 = 2 weeks</del> <u>Sub-Section 3.2 – 3 weeks</u> <u>Sub-Section 4.2 – 14 weeks</u>						<del>32</del> <u>23</u> weeks					

<a href="#">Sub-Section 4.31 – 2 weeks</a> <a href="#">Sub-Section 4.33 – 5 weeks</a> <a href="#">Sub-Section 4.34 – 4 weekends</a> <a href="#">Sub-Section 4.35 – 3 weeks</a>	
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6.2.1.3. December has been categorised as ‘Amber’ due to the proximity of the southern end of B2150 Hambledon Road in this sub-section to Wellington Retail Park, Asda Superstore on A3 Maurepas Way and Lidl supermarket on Elettra Avenue. As December is typically ~~be~~a very busy period in this location, construction should only take place during the first two weeks of the month.

6.2.1.4. In addition to these considerations, construction within Section 4.1 should not take place simultaneously with the following:

- Section 3.2 - B2150 Hambledon Road to Soake Road;
- Section 4.2 - B2150 Hambledon Road and A3 Maurepas Way between Milton Road and A3 London Road (1.0 km); and
- Section 4.31, 4.33, 4.34 and 4.35 – All sections of A3 London Road between A3 Maurepas Way and Ladybridge Road that require shuttle working traffic signals.

6.2.1.5. ~~6.2.1.4.~~This phasing of works will mitigate disruption to traffic flow within the Denmead and Waterlooville area, particularly those trips which travel along the B2150 Hambledon Road and A3 London Road to / from Purbrook, Cosham and Portsmouth. Specifically, it will ensure that there is not more than one location of traffic management that requires shuttle working on B2150 Hambledon Road, A3 Maurepas Way and A3 London Road at any one time.

6.2.1.6. Sub-Section 4.32 has intentionally been omitted from the restrictions because unlike sub-sections 3.2, 4.2, 4.31, 4.33, 4.34 and 4.35 the traffic management involves a bus lane closure rather a general traffic lane closure. This is considered to be less disruptive from a traffic management perspective, meaning works associated with Sub-Section 4.32 can occur simultaneously with Sub-Section 4.1 if required.

## 6.2.2. DESCRIPTION OF TRAFFIC MANAGEMENT MEASURES

6.2.2.1. For the majority of this subsection construction will likely be able to be facilitated by shuttle working traffic signals. Opportunities to reduce the length of shuttle working will however be taken where possible and practical, such as at the following:

- By constructing one circuit within Southdown View / Hambledon Road and the Hambledon Road spur that runs parallel to the B2150 Hambledon Road. This is described in further detail in paragraph 6.2.2.3 – 6.2.2.6 and would remove

disruption from B2150 Hambledon Road for 450m or 5-8 weeks for one circuit; and

- Use of lane realignment between the junction with The Hundred and the roundabout junction with Milton Road. The use of right-turn lanes to facilitate construction works will likely enable construction to take place without impacting on two-way traffic flow for 200m or 2-3 weeks for each circuit.

6.2.2.2. These options will help minimise the length of time shuttle working traffic signals are required on B2150 Hambledon Road.

### Southdown View / Hambledon Parade / Hambledon Road

6.2.2.3. Southdown View runs parallel to B2150 Hambledon Road between Darnell Road and Sunnymead Drive and provides access to 13 residential properties (all with off-road parking) and a public car park which serves ~~an area of~~ Billy's Lake open space which comprises of approximately 10 acres of woodland. It measures approximately 150 m in length. The carriageway width of Southdown View is less than 6.0 m, so to avoid road closure, the construction corridor will be narrowed through the use of smaller plant. Two-way traffic flow will be facilitated by an informal 'give-and-take' approach which is appropriate for a link with such low traffic flows. Construction along this link is anticipated to take approximately 1-2-2-3 weeks per circuit.

6.2.2.4. Construction works through the junction of Southdown View / Sunnymead Drive / Hambledon Parade will be managed through the use of temporary traffic signals, with construction being phased to ensure that the carriageway remains open at all times.

6.2.2.5. Hambledon Parade is approximately 140 m in length and provides access to a number of retail / commercial units on the northern side of the carriageway. On-street parking is provided on either side of Hambledon Parade and provides capacity for 23 cars, with two additional two accessible bays and a loading bay. To accommodate construction, the on-street parking spaces on one side of the carriageway may need to be temporarily suspended to mitigate the need for a full road closure. To further mitigate the impact of construction on retail / commercial units, it is proposed that construction corridor will be split into 70 m sections therefore allowing some on-street parking to remain on both sides of the carriageway throughout the duration of the works. A one-way system will be implemented along Hambledon Parade during construction to minimise traffic congestion. Construction along this link is anticipated to take 2-3 weeks per circuit.

6.2.2.6. The Hambledon Road spur, running parallel to the north of the B2150 is a residential cul-de-sac providing access to 16 residential properties, all of which have dedicated off-road parking. The carriageway is approximately 5.0m wide on this link, with the northern verge / footway providing an additional 4.0m. This total width of 9.0m provides adequate space for construction but will require use of smaller plant in order to avoid a full road closure. The approximate length of the spur is 150m. Two-way traffic flow will be facilitated by an informal ‘give-and-take’ approach which is appropriate for a link with such low traffic flows and the majority of residents will continue to be able to park off-road on driveways. It is anticipated that construction along this link will take approximately ~~1-2~~ 2-3 weeks per circuit.

### **B2150 Hambledon Road**

6.2.2.7. Construction of the Onshore Cable Route along B2150 will require shuttle working traffic signals, although opportunities for lane realignment will be ~~take~~ taken on the approach to the junctions with Darnel Road and Milton Road to maintain two-way traffic flow. For example, retaining two free-flow traffic lanes for 200 m between The Hundred and Milton Road by use of right-turn lanes and central hatching will remove the requirements for shuttle working traffic signals for ~~2-4~~ 2-4 weeks per circuit.

6.2.2.8. Several junctions intersect B2150 Hambledon Road in Section 4.1, with the required traffic management at each location dependent upon the exact location of the construction zone within the carriageway, which is not possible to define at this stage. The following junctions, however, will be subject to traffic signal control due to their existing layout or classification:

- B2150 Hambledon Road / Darnel Road – either lane realignment and use of existing traffic signals or temporary three-way traffic signals;
- B2150 / Hambledon Road / Sunnymead Drive – temporary three-way traffic signals; and
- B2150 / Hambledon Road / Milton Road / Elettra Avenue roundabout – temporary traffic signals.

6.2.2.9. The traffic management required for the following junctions will be determined by the contractor and dependent upon location of the construction zone, albeit with access retained at all times, either directly or my alternative routes:



- B2150 Hambledon Road / Sickle Way;
- B2150 Hambledon Road / Hambledon Parade;
- B2150 Hambledon Road / Charlesworth Drive;
- B2150 Hambledon Road / Petersham Drive; and
- B2150 Hambledon Road / The Hundred.

**6.3. SUB-SECTION 4.2 – B2150 HAMBLEDON ROAD AND A3 MAUREPAS WAY BETWEEN MILTON ROAD AND A3 LONDON ROAD**

~~6.3.1.1.~~ Sub-section 4.2 includes B2150 Hambledon Road to the south of the roundabout with Milton Road, as well as A3 Maurepas Way between the roundabout with Houghton Avenue and Forest End Roundabout. ~~Table 6~~

6.3.1.1.

Table 6 provides details of programme availability and traffic management proposals for this sub-section.

**Table 6 – Sub-Section 4.2 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
4.2	B2150 Hambledon Road and A3 Maurepas Way between Milton Road and A3 London Road	1000	Lane Closure	<del>10</del> <u>14</u> weeks							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: <del>4 weeks</del> <u>week restriction</u> due to Christmas shopping.											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<del>Section 3.2 – 2 weeks</del> <del>Section 4.1 – 13 weeks</del> <del>Section 4.31 – 1 week</del> <del>Section 4.33 – 3 weeks</del> <del>Section 4.34 – 2 weekends</del> <del>Section 4.35 – 2 weeks</del> <del>Section 4.41 – 1 week</del> <del>Section 4.43 – 2 weeks</del> <u>Sub-Section 3.2 – 3 weeks</u> <u>Sub-Section 4.1 – 22 weeks</u> <u>Sub-Section 4.31 – 2 weeks</u> <u>Sub-Section 4.33 – 5 weeks</u> <u>Sub-Section 4.34 – 4 weekends</u> <u>Sub-Section 4.35 – 3 weeks</u> <u>Sub-Section 4.41 – 1 week</u> <u>Sub-Section 4.43 – 3 weeks</u>						<del>24</del> <u>9</u> weeks					

6.3.1.2. December has been categorised as ‘Red’ as this section contains vehicular accesses to Wellington Retail Park, Asda Superstore on A3 Maurepas Way and Lidl supermarket on Elettra Avenue and Waterlooville town centre. As December will be a busy period in this location, construction of this section of the Onshore Cable should not take place during this month. In addition to these considerations, construction within Section 4.2 should not take place simultaneously with the following Sections:

- Sub-Sections 3.2 and 4.1 – B2150 Hambledon Road north-west of this section’

- Section 4.31, 4.33, 4.34, 4.35, 4.41 and 4.43 – All sections of A3 London Road between A3 Maurepas Way and Portsdown Hill Road that require shuttle working traffic signals.

6.3.1.3. Phasing of works will mitigate disruption to traffic flow within the Denmead and Waterlooville area, particularly those trips which travel along the B2150 Hambledon Road and A3 London Road to / from Purbrook, Cosham and Portsmouth. Specifically, it will ensure that construction along Sub-Section 4.2 does not occur at the same time as traffic management that requires shuttle working on B2150 Hambledon Road, A3 Maurepas Way and A3 London Road.

6.3.1.4. [Sub-Section 4.32, 4.42 and 4.44 have intentionally been omitted from the restrictions because within sub-sections 3.2, 4.1 4.31, 4.33, 4.34, 4.35, 4.41 and 4.43, the traffic management involves a bus lane closure rather a general traffic lane closure. This is considered to be less disruptive from a traffic management perspective, meaning works associated with these three sub-sections can occur simultaneously with Sub-Section 4.2 if required.](#)

## 6.3.2. DESCRIPTION OF TRAFFIC MANAGEMENT MEASURES

### **B2150 Hambledon Road**

6.3.2.1. Construction along B2150 Hambledon Road in this subsection will require implementation of single lane closures. To facilitate continued access to Wellington Retail Park throughout the duration of works, temporary turning restrictions may need to be implemented at the junction of B2150 Hambledon Road / Aston Road. Temporary turning restrictions will prohibit right turn movements at this junction, allowing it to remain operational via a left-in, left-out arrangement. These temporary access arrangements are likely to be in place for one week per circuit.

### **B2150 Hambledon Road / A3 Maurepas Way / Houghton Avenue Roundabout**

6.3.2.2. Temporary traffic signals may also need to be implemented at the roundabout junction of B2150 Hambledon Road / A3 Maurepas Way / Houghton Avenue. Traffic management is likely to be required at this junction for approximately one week.

### **A3 Maurepas Way**

6.3.2.3. Construction within A3 Maurepas Way may require a closure of one lane of the dual carriageway. On the A3 in this section a minimum of three lanes will remain operational, and two-way flow will be maintained at all times. The link provides the entry to the Asda Waterlooville Superstore car park, access to this car park will be retained throughout the duration of works.

- 6.3.2.4. Waterlooville Fire Station gains vehicular access from A3 Maurepas Way on this link. Vehicular access from the fire station will be retained at all times through-out the duration of works through phased construction maintaining a suitable access width at all times.

**Forest End Roundabout**

- 6.3.2.5. Temporary traffic signals may be required at Forest End Roundabout. Construction through this junction is likely to be in place for 2-3 days per circuit.

**6.4. SUB-SECTION 4.31 - A3 LONDON ROAD BETWEEN FOREST END ROUNDABOUT AND SOUTH OF THE JUNCTION WITH FOREST END**

- 6.4.1.1. A limited section of shuttle working may be required between Forest End Roundabout and just south of the junction with Forest End, where the central island ends. The programme availability to complete this sub-section is shown in Table 7 below.

**Table 7 – Sub-Section 4.31 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
4.31	A3 London Road between Forest End Roundabout and south of the junction with Forest End	100	Shuttle Working	<del>1 week</del> <u>2 weeks</u>							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<p>Notes on Calendar Restrictions:</p> <p><del>Only Easter Holidays (2 weeks) and part of May, June, July, August and part of September (15 weeks) available.</del> <u>Work Permitted Only During: February Half-Term (1 week), Easter School Holidays (2 weeks), May Half-Term (1 week), June (4 weeks), July outside of school holidays (3 weeks), School Summer Holidays (approximately 6 weeks), and October Half-Term (1 week).</u></p> <p><u>Approximate availability per calendar year: 18 weeks.</u></p>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<p><del>Section 3.2 = 2 weeks</del> <del>Section 4.1 = 13 weeks</del> <del>Section 4.2 = 10 weeks</del> <del>Section 4.32 = 10 weeks</del> <del>Section 4.33 = 3 weeks</del> <del>Section 4.34 = 2 weekends</del> <del>Section 4.35 = 2 weeks</del> <del>Section 4.41 = 1 week</del> <del>Section 4.43 = 2 weeks</del></p> <p><u>Sub-Section 3.2 – 3 weeks (no calendar restrictions)</u> <u>Sub-Section 4.1 – 22 weeks (2-week restriction due to Christmas)</u> <u>Sub-Section 4.2 – 14 weeks (4-week restriction due to Christmas)</u> <u>Section 4.32 = 10 weeks (no calendar restrictions)</u> <u>Sub-Section 4.33 – 5 weeks (same calendar restrictions)</u> <u>Sub-Section 4.34 – 4 weekends</u></p>						<p><del>8 Weeks, based on links with 3 weeks (based on avoiding simultaneous works at sub-sections 4.33, 4.35, 4.41 and 4.43 where there are similar calendar restrictions)</del></p>					

<p><u><a href="#">(no calendar restrictions)</a></u>  <u><a href="#">Sub-Section 4.35 – 3 weeks</a></u>  <u><a href="#">(same calendar restrictions)</a></u>  <u><a href="#">Sub-Section 4.41 – 1 week</a></u>  <u><a href="#">(same calendar restrictions)</a></u>  <u><a href="#">Sub-Section 4.43 – 3 weeks</a></u>  <u><a href="#">(same calendar restrictions)</a></u></p>	
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6.4.1.2. Due to the high traffic flows at this location and close proximity to Waterlooville town centre, construction should not take place outside of the ~~summer months, Easter school holidays, May half-term and early September as shown on~~ periods shown in Table 7. In addition to these considerations, construction within Section 4.3 should not take place simultaneously with the following Sections:

- Sub-Sections 3.2, 4.1 and 4.2 ~~—~~ B2150 Hambledon Road and A3 Maurepas Way;
- Sub-Sections 4.32, 4.33, 4.34, and 4.35 ~~All other~~ parts of Section 4.3 ~~—~~ A3 London Road between A3 Maurepas Way and Ladybridge Road; and
- Sub-sections 4.41 and 4.43 – Parts of A3 London Road between Ladybridge roundabout and Portsdown Hill road that require shuttle working traffic signals.

6.4.1.3. This phasing of works will mitigate disruption to traffic flow within the Denmead and Waterlooville area, particularly those trips which travel along the B2150 Hambledon Road and A3 London Road to / from Purbrook, Cosham and Portsmouth. The programme will ensure that the construction of sub-section 4.2 is not completed at the same time as any other works on A3 London Road north of Ladybridge roundabout nor during any periods where shuttle working traffic signals are required on either B2150 Hambledon Road or A3 London Road south of Ladybridge roundabout.

**6.5. SUB-SECTION 4.32 ~~---~~ A3 LONDON ROAD BETWEEN SOUTH OF JUNCTION WITH FOREST END AND SOUTHERN END OF BUS LANES (IN PROXIMITY TO POPPY FIELDS)**

6.5.1.1. Construction within this section can be completed through lane realignment, thereby maintaining two-way traffic flow for the entirety of this sub-section. Where the construction zone is located, the bus lanes and general traffic lane will merge from two to one lane. To mitigate the impact on public transport, temporary bus priority traffic signals will be provided where possible to maintain bus priority over general traffic. Table 8 provides details of the available programme for this sub-section.

**Table 8 – Sub-Section 4.32 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
4.32	A3 London Road between south of junction with Forest End and southern end of bus lanes (in proximity to Poppy Fields)	1000	Lane Closure	<del>10</del> <u>17</u> weeks							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: <del>No other calendar restrictions identified</del> <u>2 week restriction at Christmas / New Year</u>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<del>Sub-Section 4.31 = 1 week</del> <u>2 weeks</u> <del>Sub-Section 4.33 = 3</del> <u>5 weeks</u> <del>Section 4.34 = 2 weekends</del> <u>Sub-Section 4.35 = 2 weeks</u> <del>Section 4.41 = 1 week</del> <del>Section 4.43 = 3 weeks</del> <u>Sub-Section 4.41 – 1 week</u> <u>Sub-Section 4.42 – 8 weeks</u> <u>Sub-Section 4.43 – 3 weeks</u> <u>Sub-Section 4.44 – 4 weeks</u>						42 <u>24</u> weeks					



6.5.1.2. Given the limited impact of construction along this section it is proposed that works can be completed all year round. To minimise impacts on public transport the construction within this section should not take place simultaneously with the following:

- Sub-Sections 4.31, 4.33, 4.35 – Sections of A3 London Road north of Ladybridge Roundabout that require shuttle working traffic signals; [and](#)
- Sub-Sections 4.41 and 4.43 – Sections of A3 London Road [south](#) of Ladybridge roundabout that require shuttle working traffic signals.

## 6.6. **SUB-SECTION 4.33 ~~—~~ A3 LONDON ROAD BETWEEN SOUTH OF SOUTHERN END OF BUS LANES (IN PROXIMITY TO POPPY FIELDS) AND POST OFFICE ROAD**

6.6.1.1. Shuttle working will be required between the junction of A3 London Road / Poppy Fields and the junction of A3 London Road / Post Office Road. The programme availability to complete these works is shown on Table 9 below.

**Table 9 – Sub-Section 4.33 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
4.33	A3 London Road between Poppy Fields and just south of Post Office Road	250	Shuttle Working	<del>3</del> <u>5</u> weeks							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<p>Notes on Calendar Restrictions:</p> <p><del>Only Easter Holidays (2 weeks) and June, July, August (12 weeks) available</del> <u>Work Permitted Only During: February Half-Term (1 week), Easter School Holidays (2 weeks), May Half-Term (1 week), June (4 weeks), July outside of school holidays (3 weeks), School Summer Holidays (approximately 6 weeks), and October Half-Term (1 week).</u></p> <p><u>Approximate availability per calendar year: 18 weeks.</u></p>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<p><u>Sub-Section 3.2 = <del>2</del> <u>3</u> weeks</u>  <u>(no calendar restrictions)</u>  <del>Sub-Section 4.1 = 13 weeks – 22</del>  <del>Section 4.2 = 10 weeks</del>  <del>Section 4.31 = 2 weeks</del>  <u>(2-week restriction due to Christmas)</u>  <u>Sub-Section 4.2 = 14 weeks</u>  <u>(4-week restriction due to Christmas)</u>  <u>Sub-Section 4.31 = 2 weeks</u>  <u>(same calendar restrictions)</u>  <u>Sub-Section 4.32 = 10 weeks</u>  <u>(no calendar restrictions)</u>  <del>Section 4.34 = <del>2</del> <u>4</u> weekends</del>  <u>(no calendar restrictions)</u>  <u>Sub-Section 4.35 = <del>2</del> <u>3</u> weeks</u>  <u>(same calendar restrictions)</u>  <u>Sub-Section 4.41 = <del>1</del> <u>1</u> week</u>  <u>(same calendar restrictions)</u></p>						<p><del>10.9</del> weeks, <del>based on links with</del>  <u>(based on avoiding simultaneous works at sub-sections 4.31, 4.35, 4.41 and 4.43 where there are similar calendar restrictions)</u></p>					

Sub-Section 4.43 ~~= 3 weeks~~  
(same calendar restrictions)

6.6.1.2. Due to the high traffic flows at this location, no construction should take place outside of the ~~of the summer months, Easter school holidays, May half term and early September as shown on~~ periods shown in Table ~~9s~~9. In addition to these considerations, construction within Section 4.3 should not take place simultaneously with the following Sections:

- Sub-Sections 3.2, 4.1 and 4.2 - B2150 Hambledon Road and A3 Maurepas Way;
- Sub-Sections 4.31,4.32, 4.34, 4.35 - All other parts of Section 4.3 - A3 London Road between A3 Maurepas Way and Ladybridge Road; and
- Sub-sections 4.41 and 4.43 – Parts of A3 London Road between Ladybridge roundabout and Portsdown Hill road that require shuttle working traffic signals.

6.6.1.3. As with other sub-sections of A3 London Road, this phasing of works will mitigate disruption to traffic, particularly those trips which travel along the A3 London Road between Waterlooville, Purbrook, Cosham and Portsmouth. The programme will ensure that the construction of sub-section 4.33 is not completed at the same time as any other works on A3 London Road north of Ladybridge roundabout nor during any periods where shuttle working traffic signals are required on either B2150 Hambledon Road or A3 London Road south of Ladybridge roundabout.

## 6.7. **SUB-SECTION 4.34 - A3 LONDON ROAD BETWEEN POST OFFICE ROAD AND ROCKING HORSE NURSERY**

6.7.1.1. A full road closure may need to be implemented on the section of the A3 London Road between Post Office Road and Rocking Horse Nursery and Pre-School, a distance of approximately 90m. It is anticipated that this closure would take place

~~either: over the course of four weekends per circuit, with construction taking place only during 10-hour working days between 08:00 and 18:00.~~

- ~~• Over the course of one weekend per circuit, with construction taking place from Saturday sunrise until Sunday sunset, (including night-working); or~~
- ~~• Over the course of two weekends per circuit, with construction only taking place during working hours.~~

6.7.1.2. The programme availability to complete these works is shown on Table 10 below.

**Table 10 – Sub-Section 4.34 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
4.34	A3 London Road between Post Office Road and Rocking Horse Nursery	90	Road Closure	<del>2</del> <u>4</u> weekends							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: <del>No calendar restrictions identified</del> <u>2 week restriction at Christmas / New Year</u>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<u>Sub-Section 4.31 – 2 weeks</u> <del>Sub-Section 4.41 section – 1 week</del> <u>Sub-Section 4.43 – 3 weeks</u>						48 <u>44</u> weeks					

6.7.1.3. Given off-peak nature of the road closure requirements within sub-section 4.34 there are no calendar restrictions. The will however will most likely be completed at a similar time to sub-section 4.33 and 4.35.

6.7.1.4. -During the period of road closure, it will be necessary to provide a diversion route for all traffic, with the following proposed to the east of the A3 London Road ~~as shown on Drawing EN02022-TMS-11 included in Appendix 2:~~

- For northbound traffic on the A3 London Road travelling between Ladybridge Roundabout and the Forest End Roundabout – Diversion via Ladybridge Road eastbound, Stakes Road eastbound, Stakes Hill Road northbound; and Rockville Drive westbound;
- For southbound traffic on the A3 London Road travelling between Forest End Roundabout and Ladybridge Roundabout – Diversion via Rockville Drive eastbound, Stakes Hill Road southbound, Stakes Road westbound and Ladybridge Road westbound.

6.7.1.5. These diversion routes are shown on Drawing EN02022-TMS-11 included in Appendix 3.

- ~~From Ladybridge roundabout along Ladybridge Road, Stakes Road, Stakes Hill Road, and Rockville Drive to A3 London Road at Forest End Roundabout.~~

6.7.1.6. ~~6.7.1.4.~~ To minimise the impact of the road closure, construction works will not be completed simultaneously with Sections 4.31, 4.41 and 4.43, all of which require shuttle working traffic signals elsewhere on the A3 London Road.

## 6.8. **SUB-SECTION 4.35 - A3 LONDON ROAD BETWEEN ROCKING HORSE NURSERY AND LADYBRIDGE ROUNDABOUT**

6.8.1.1. Shuttle working will also be required for this sub-section between Rocking Horse Nursery and Pre-School and Ladybridge Roundabout. Table 11 provides details of the programme availability for completion of construction in this sub-section.

**Table 11 - Sub-Section 4.35 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
4.35	A3 London Road between Rocking Horse Nursery and Ladybridge roundabout	170	Shuttle Working	<del>2</del> <u>3</u> weeks							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<p>Notes on Calendar Restrictions:</p> <p><del>Only Easter Holidays (2 weeks) and June, July, August (15 weeks) available</del> <u>Work Permitted Only During: February Half-Term (1 week), Easter School Holidays (2 weeks), May Half-Term (1 week), June (4 weeks), July outside of school holidays (3 weeks), School Summer Holidays (approximately 6 weeks), and October Half-Term (1 week).</u></p> <p><u>Approximate availability per calendar year: 18 weeks</u></p>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<p><u>Sub-Section 3.2 – 3 weeks (no calendar restrictions)</u></p> <p><u>Sub-Section 4.1 – 22 weeks (2-week restriction due to Christmas)</u></p> <p><u>Sub-Section 4.2 – 14 weeks (4-week restriction due to Christmas)</u></p> <p><u>Sub-Section 4.31 – 2 weeks (same calendar restrictions)</u></p> <p><u>Sub-Section 4.32 = <del>2</del><u>10</u> weeks</u></p> <p><del>Section 4.1 (no calendar restrictions)</del></p> <p><u>Sub-Section 4.33 – 5 weeks (same calendar restrictions)</u></p> <p><u>Sub-Section 4.34 – 4 weekends (no calendar restrictions)</u></p> <p><u>Sub-Section 4.41 – 1 week (same calendar restrictions)</u></p> <p><u>Sub-Section 4.42 = <del>13</del><u>8</u> weeks</u></p> <p><del>Section 4.2 = 10 weeks</del></p> <p><del>Section 4.31 = 1 week</del></p> <p><del>Section 4.33 = 3 weeks</del></p>						<p><del>9</del><u>7</u> weeks;</p> <p><u>(based on <del>links with</del> avoiding simultaneous works at sub-sections 4.31, 4.33, 4.41 and 4.43 where there are similar calendar restrictions)</u></p>					

Section 4.41 = 1 week  
 Section 4.42 = 9 weeks  
(no calendar restrictions)  
 Sub-Section 4.43 = 3 weeks  
(same calendar restrictions)  
 Section 4.44 = 4 weeks  
(no calendar restrictions)

6.8.1.2. Given the requirement for shuttle-working and volume of traffic which uses A3 London Road in this section, no construction work on this section should take place outside of the ~~of the summer months, Easter school holidays, May half term and early September as shown on~~ periods shown in Table 11—.

6.8.1.3. As with other sub-sections of A3 London Road, this phasing of works will mitigate disruption to traffic, particularly those trips which travel along the A3 London Road between Waterlooville, Purbrook, Cosham and Portsmouth. The programme will ensure that the construction of sub-section 4.35 is not completed at the same time as any other works on A3 London Road north of Ladybridge roundabout nor during any periods where shuttle working traffic signals are required on either B2150 Hambledon Road or A3 London Road south of Ladybridge roundabout. Several junctions intersect the A3 London Road in Section 4.3. Those junctions which provide connections to the eastern side of the carriageway are, for the most part, accessible by alternate routes on the wider network. While the exact traffic management for each side-road can only be determined once the exact construction zone location is confirmed, at this stage it is proposed that the following are subject to Temporary traffic signals:

- A3 London Road / Mill Road priority junction (due to the proximity of Mill Hill Primary School); and
- A3 London Road / Ladybridge Road / Marrels Wood Garden.

6.8.1.4. ~~6.8.1.5.~~As noted, the technical specification issued to contractors will set out the standard protocol for enabling continued access to cul-de-sacs throughout the duration of works.

6.8.1.5. ~~6.8.1.6.~~It should be noted that the majority of the side roads to the west of A3 London Road in this section form part of the West of Waterlooville Major Development Area (MDA) which is currently in build out stage. As such, existing cul-de-sacs which currently gain sole vehicular access from A3 London Road which may require temporary traffic signals during construction, may be more suited to temporary suspension of access from the A3 during construction as the wider road network of the MDA develops and the residential streets gain further permeability.

## 6.9. SUB-SECTION 4.41 - A3 LONDON ROAD BETWEEN LADYBRIDGE ROUNDABOUT AND START OF BUS LANE

6.9.1.1. Immediately south of Ladybridge roundabout the A3 London Road does not include bus lanes, for a distance of approximately 70 m, and will therefore require shuttle working traffic signals to facilitate construction of the Onshore Cable Route. Table 12 provides details of the programme availability for completion of constructions in this sub-section.

**Table 12 - Sub-Section 4.41 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
4.41	A3 London Road between Ladybridge roundabout and start of bus lane	80	Shuttle Working	1 week							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<p>Notes on Calendar Restrictions:</p> <p><del>Only Easter Holidays (2 weeks) and June, July, August (15 weeks) available</del> <u>Work Permitted Only During: February Half-Term (1 week), Easter School Holidays (2 weeks), May Half-Term (1 week), June (4 weeks), July outside of school holidays (3 weeks), School Summer Holidays (approximately 6 weeks), and October Half-Term (1 week).</u></p> <p><u>Approximate availability per calendar year: 18 weeks</u></p>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<p><u>Sub-Section 3.2 – 3 weeks (no calendar restrictions)</u></p> <p><u>Sub-Section 4.1 – 22 weeks (2-week restriction due to Christmas)</u></p> <p><u>Sub-Section 4.2 – 14 weeks (4-week restriction due to Christmas)</u></p> <p><u>Sub-Section 4.31 – 2 weeks (same calendar restrictions)</u></p>						<p style="text-align: center;"><del>8-5</del> weeks;</p> <p><i>(based on <del>links with</del> avoiding simultaneous works at sub-sections 4.31, 4.33, 4.35 and 4.43 where there are similar calendar restrictions)</i></p>					



<p><u>Sub-Section 4.33 – 5 weeks</u>  <u>(same calendar restrictions)</u>  <u>Sub-Section 4.34 – 4 weekends</u>  <u>Sub-Section 4.35 – 3 weeks</u>  <u>(same calendar restrictions)</u>  <u>Section 4.42 = 2-8 weeks</u>  <del>Section 4.1 – 13 weeks</del>  <del>Section 4.2 – 10 weeks</del>  <del>Section 4.31 – 1 week</del>  <del>Section 4.33 – 3 weeks</del>  <del>Section 4.42 – 9 weeks</del>  <u>(no calendar restrictions)</u>  <u>Sub-Section 4.43 = 3 weeks</u>  <u>(same calendar restrictions)</u>  <u>Section 4.44 = 4 weeks</u>  <u>(no calendar restrictions)</u></p>	
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6.9.1.2. Given the requirement for shuttle-working and volume of traffic which uses A3 London Road in this section, no construction work on this section should take place outside of the ~~of the summer months, Easter school holidays, May half term and early September as shown on~~ periods shown in Table 12.

6.9.1.3. As with sub-section 4.35, this phasing of works will mitigate disruption to traffic, particularly those trips which travel along the A3 London Road between Waterlooville, Purbrook, Cosham and Portsmouth. The programme will ensure that the construction of sub-section 4.41 is not completed at the same time as any other works on A3 London Road north of Ladybridge roundabout nor during any periods where shuttle working traffic signals are required on either B2150 Hambledon Road or A3 London Road south of Ladybridge roundabout.

## 6.10. SUB-SECTION 4.42 - A3 LONDON ROAD BETWEEN START OF BUS LANE AND LANSDOWNE AVENUE

6.10.1.1. Construction within this section can be completed through lane realignment, thereby maintaining two-way traffic flow for the entirety of this sub-section. Where the construction zone is located, the bus lanes and general traffic lane will merge from two to one lane. To mitigate the impact on public transport, temporary bus priority traffic signals will be provided where possible to maintain bus priority over general traffic. Table 13 provides details of the available programme for this sub-section.

**Table 13 - Sub-Section 4.42 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
4.42	A3 London Road between start of bus lane and Lansdowne Avenue	850	Lane Closure	<del>9</del> <u>8</u> weeks							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: <del>No other calendar restrictions identified</del> <u>2 week restriction at Christmas / New Year</u>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
Section 4.33 = <del>3</del> <u>5</u> weeks <u>Sub-Section 4.34 = 2</u> <u>4</u> weekends Section 4.35 = <del>2</del> weeks <del>Section 4.41 = 1</del> week Section 4.43 = <del>3</del> weeks <u>Sub-Section 4.41 = 1</u> week <u>Sub-Section 4.43 = 3</u> weeks <u>Sub-Section 4.44 = 4</u> weeks						<del>39</del> <u>32</u> weeks					

6.10.1.2.

Given the limited impact of construction along this section it is proposed that works can be completed all year round. To minimise impacts on public transport the construction within this section should not take place simultaneously with the following:

- Sub-Sections 4.31, 4.33, 4.35 – Sections of A3 London Road north of Ladybridge Roundabout that require shuttle working traffic signals;
- Sub-Sections 4.41 and 4.43 – Sections of A3 London Road of Ladybridge roundabout that require shuttle working traffic signals; and
- ~~Sub-Section~~ Sub-Sections 4.44 – sections of the A3 London Road south of Ladybridge Roundabout where bus lane ~~closure~~ closures are required.

## 6.11. SUB-SECTION 4.43 - A3 LONDON ROAD BETWEEN LANSDOWNE AVENUE AND BUS LANE (SOUTH OF THE BROW)

6.11.1.1. Sub-section 4.43 may require shuttle working traffic signals, although temporary removal of existing pedestrian refuge islands may allow for two-way traffic flow to be maintained due to the wide carriageway width. The worst-case requirement of shuttle working traffic signals has the programme constraints identified in Table 14.

**Table 14 - Sub-Section 4.43 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
4.43	A3 London Road between Lansdown Avenue and start of bus lane (south of The Brow)	250	Shuttle Working	3 <del>Weeks</del> <u>weeks</u>							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<p>Notes on Calendar Restrictions: <del>Only Easter Holidays (2 weeks) and June, July, August (15 weeks) available</del>  <u>Work Permitted Only During: February Half-Term (1 week), Easter School Holidays (2 weeks), May Half-Term (1 week), June (4 weeks), July outside of school holidays (3 weeks), School Summer Holidays (approximately 6 weeks), and October Half-Term (1 week).</u>  <u>Approximate availability per calendar year: 18 weeks</u></p>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<p><u>Sub-Section 3.2 – 3 weeks (no calendar restrictions)</u>  <u>Sub-Section 4.1 – 22 weeks (2-week restriction due to Christmas)</u>  <u>Sub-Section 4.2 – 14 weeks (4-week restriction due to Christmas)</u>  <u>Sub-Section 4.31 – 2 weeks (same calendar restrictions)</u>  <u>Sub-Section 4.33 = <del>3</del> – 5 weeks (same calendar restrictions)</u>  <u>Sub-Section 4.34 = <del>2</del> – 4 weekends (no calendar restrictions)</u></p>						<p><del>10 weeks, based on links with similar calendar restrictions</del>  <u>7 weeks (based on avoiding simultaneous works at sub-sections 4.31, 4.33, 4.35, and 4.41 where there are similar school term-time restrictions)</u></p>					

Sub-Section 4.35 = ~~2~~ 3 weeks  
(same calendar restrictions)  
Sub-Section 4.41 = ~~1~~ week  
(same calendar restrictions)  
 Section 4.42 = ~~9~~ weeks  
(no calendar restrictions)  
 Section 4.44 = 4 weeks  
(no calendar restrictions)

6.11.1.2. Given the requirement for shuttle-working and volume of traffic which uses A3 London Road in this section, no construction work on this section should take place outside of the of the ~~summer months, Easter school holidays, May half term and early September as shown on~~ periods shown in Table 14. ~~6.11.1.3.~~ The phasing of works aims to mitigate disruption to traffic, particularly those trips which travel along the A3 London Road between Waterlooville, Purbrook, Cosham and Portsmouth. The programme will ensure that the construction of this sub-section is not completed at the same time as any other works on A3 London Road south of Ladybridge roundabout nor during any periods where shuttle working traffic signals are required on either B2150 Hambledon Road or A3 London Road north of Ladybridge roundabout.

## 6.12. **SUB-SECTION 4.44 - A3 LONDON ROAD BETWEEN BUS LANE (SOUTH OF THE BROW) AND PORTSDOWN HILL ROAD**

6.12.1.1. As with sub-sections 4.32 and 4.42 construction within this sub-section can be accommodated for through the use of either lane realignment as a result of the wide carriageways and bus lanes. This means that overall, 2.25km out of 3.20km construction along A3 London Road can be accommodated while retaining two-way traffic flow and avoiding the need for shuttle working traffic signals. Table 15 shows the programme availability for sub-section 4.44.

**Table 15 – Sub-Section 4.44 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
4.44	A3 London Road start of bus lane (south of The Brow) and <a href="#">B2177</a> Portsdown Hill Road	400	Lane Closure	4 <del>Weeks</del> <a href="#">weeks</a>							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: <del>No other calendar restrictions identified</del> <a href="#">2 week restriction at Christmas / New Year</a>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<del>Sub-Section 4.31 = 1 week</del> <a href="#">2 weeks</a> <del>Sub-Section 4.33 = 3-5 weeks</del> <del>Sub-Section 4.34 = 2-4 weekends</del> <del>Sub-Section 4.35 = 2-3 weeks</del> <del>Sub-Section 4.41 = 1 week</del> <del>Sub-Section 4.42 = 9-8 weeks</del> <del>Sub-Section 4.43 = 2-3 weeks</del>						<del>34</del> <a href="#">28</a> weeks					

6.12.1.2. Given the limited impact of construction along this section it is proposed that works can be completed all year round. To minimise impacts on public transport the construction within this section should not take place simultaneously with the following:

- Sub-Sections 4.31, 4.33, 4.34 and 4.35 – Sections of A3 London Road north of Ladybridge Roundabout that require shuttle working traffic signals;
- Sub-Sections 4.41 and 4.43 – Sections of A3 London Road of Ladybridge roundabout that require shuttle working traffic signals; and
- Sub-Section 4.42 – A3 London Road south of Ladybridge Roundabout where lane closure are required.

6.12.1.3. As with the northern part of A3 London Road, in this Section, the majority of side roads to the east of the construction corridor are accessible via alternate routes on

wider road network. While the exact traffic management for each side-road can only be determined once the exact construction zone location is confirmed, at this stage it is proposed that the following are subject to temporary traffic signals:

- A3 London Road / The Brow: The Brow also provides access to multiple residential roads and Purbrook Park school; and
- A3 London Road / A3 southbound slip road: No properties gain access from this link.

### 6.13. **SUB-SECTION 4.5 – B2177 PORTSDOWN HILL ROAD BETWEEN CAR PARK ACCESS AND FARLINGTON AVENUE**

6.13.1.1. Section 4.5 spans between the priority-~~controlled~~-controlled access junction of ~~A3 London Road / southbound slip road~~-the Car Park directly to the south of B2177 Portsdown Hill Road and the priority-~~controlled~~ junction of B2177 Portsdown Hill Road / Farlington Avenue. Table 16 below shows the available programme for completion of construction on sub-section 4.5.

**Table 16 - Sub-Section 4.5 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
4.5	<u>B2177</u> Portsdown Hill Road between <del>A3 London Road</del> - <u>Car Park Access</u> and Farlington Avenue	<del>600</del> <u>160</u>	Shuttle Working	<del>6</del> <u>2</u> Weeks							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: <del>No calendar restrictions identified</del> - <u>2 week restriction at Christmas / New Year</u>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<u>Sub</u> -Section 4.41 = <del>1</del> <u>1</u> week						<del>25</del> <u>22</u> weeks					
Section 4.42 = <del>9</del> <u>8</u> weeks											

~~Sub-Section 4.43 = 2 – 3~~ weeks  
~~Sub-Section 4.44 = 4~~ weeks  
~~Section 5.1 = 7 – 6~~ weeks  
~~section-Sub-Section 5.2 = 4 – 6~~ weeks

6.13.1.2. Aside from this however, construction work should not take place on the B2177 Portsdown Hill Road ~~at the same time as~~ concurrently with the following:

- Sub-Sections 4.41, 4.42, 4.43 and 4.44 – A3 London Road between Ladybridge Roundabout and B2177 Portsdown Hill Road that require shuttle working traffic signals; and
- ~~Section~~ Sub-Sections 5.1 and 5.2 – Farlington Avenue.

6.13.1.3. The aim of these restrictions is to mitigate the potential cumulative impacts of multiple construction zones being located within a similar area at the same time. Specifically, it will avoid works on the B2177 Portsdown Hill Road being completed at the same time as construction on the A3 London Road south of Ladybridge Roundabout and Farlington Avenue.

## 6.13.2. DESCRIPTION OF TRAFFIC MANAGEMENT MEASURES

6.13.2.1. It is likely that shuttle working will be required for the entirety of the highway network contained within Section 4.5, ~~should off-road alternatives adjacent to Portsdown Hill Road be considered unsuitable by the contractor. Without the use of off-road alternative construction works on the carriageway will take up to 7 weeks per circuit. and will be in place for approximately two weeks per circuit.~~

6.13.2.2. ~~Three-way temporary traffic signals will be required at the Portsdown Hill Road priority junction, where the spur road provides a link to / from A3 London Road. Temporary traffic signals or road plating will be required to maintain access may be required~~ Temporary traffic signals or road plating will be required to maintain access at the following junctions whilst the construction corridor intersect the B2177 in these locations:

- Priority junction of B2177 Portsdown Hill Road / Hilltop Crescent: This junction provides the sole vehicular access to approximately 50 private residential properties; and
- Priority junction of B2177 Portsdown Hill Road / Hoylake Road: This junction provides the sole vehicular access point to 16 private residential properties.

~~6.13.2.3. It should be noted that the Order limits in this Sub-section are inclusive of both the~~

~~verge to the immediate south of B2177 Portsdown Hill Road, and Portsdown Hill Viewpoint Car Park. This may enable works to be completed with considerably lessened disruption to the operation of B2177 Portsdown Hill. Should works be completed in the section of car park / verge contained within the Order Limit, the section of shuttle working would reduce from approximately 600 m to approximately 400 m. This would consequently reduce the length of time traffic management is required in this Section to approximately 4 weeks.~~



## 7. SECTION 5 – FARLINGTON

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- 7.1.1.1. Section 5 spans from the junction of B2177 Hambledon Road / Farlington Avenue in the north to the junction of A2030 Eastern Road / Fitzherbert road in the south. For ease of assessment, Section 5 has been split into two subsections, these subsections are as follows:
- **Sub-Section 5.1** – Farlington Avenue between Portsdown Hill Road and Sea View Road;
  - **Sub-Section 5.2** – ~~Farlington Avenue~~ Farlington Avenue between Sea View Road and Havant Road;
  - **Sub-Section 5.3** – ~~Eveleigh Road~~ Eveleigh Road;
  - **Sub-Section 5.4** – ~~crossing~~ Crossing of Havant Road into Farlington Avenue ~~of~~ and Crossing of A2030 Havant Road into Portsmouth Water ~~land~~ Land; and
  - **Sub-Section 5.5** – Havant Road / the A2030 Havant Road and the A2030 Eastern Road between Farlington Avenue and ~~Fitzherbert Road~~ Zetland Field.
- 7.1.1.2. The FTMS proposals are shown on Drawing EN02022-TMS-5 and 6 included in Appendix ~~4~~ 2 to this FTMS.

### 7.2. SUB-SECTION 5.1 – FARLINGTON AVENUE BETWEEN B2177 PORTSDOWN HILL ROAD AND SEA VIEW ROAD

- 7.2.1.1. Two-way flow is likely to be able to be retained on Farlington Avenue through the use of shuttle working traffic signals between the junction with B2177 Portsdown Hill Road and the junction with Sea View Road. Table 17 shows the programme availability for construction along this sub-section.

**Table 17 - Sub-Section 5.1 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
5.1	Farlington Avenue between <a href="#">B2177</a> Portsdown Hill Road and Sea View Road	650	Shuttle Working	<del>7</del> <u>6</u> Weeks							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<p>Notes on Calendar Restrictions:</p> <p><del>Assume work between Easter Holidays and end of summer holidays (15 weeks)</del> <u>Work Permitted Only During: February Half-Term (1 week), Easter Holidays (2 weeks), May Half-Term (1 week), June (4 weeks), July outside of school holidays (3 weeks), Summer Holidays (approximately 6 weeks), and October Half-Term (1 week) available.</u></p> <p><u>Approximate availability: 11 weeks.</u></p>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<p><u>Sub-Section 4.5 = 2 weeks (no calendar restrictions)</u>  <u>Sub-Section 5.2 = 6 weeks</u>  <del>Section 5.2 – 4 weeks</del>  <u>(same calendar restrictions)</u>  <u>Sub-Section 5.3 = 2-3 weeks</u>  <del>Section (same calendar restrictions)</del>  <u>Sub-Section 5.5 = 8-6 weeks</u>  <u>(2-week restriction for South Coast Festival and Victorious Festival plus 4-week restriction at Christmas. No school term-time restrictions)</u></p>						<p><del>13 weeks</del> <u>14 weeks</u>  <u>(based on avoiding simultaneous works at Sub-Section 5.2 and 5.3 where there are similar calendar restrictions)</u></p>					

7.2.1.2. Construction along ~~sub-section~~ Sub-Section 5.1 will take approximately ~~7~~6 weeks per circuit. In order for the programme to be deliverable ~~in conjunction with Sub-section 5.2 and 5.3~~, construction will be limited to the school holidays where possible and with the exception of June and early July. In addition, construction along this

section should not take place simultaneously with the following [owing to the location of Solent Infant School on Eveleigh Road and Solent Junior School on Solent Road:](#)

- Section 4.5 – Portsdown Hill Road;
- Section 5.2, 5.3 – Farlington Avenue south of Sea View Road and Eveleigh Road; and
- Section 5.5 – Havant Road between the junction with Farlington Avenue and Eastern Road.

7.2.1.3. These restrictions will mitigate the cumulative impacts associated with construction being completed across several locations in the same area.

7.2.1.4. The majority of side roads which have junctions with Farlington Avenue are accessible via more than one junction and therefore alternative access is available implemented. Temporary three-way signals or road plating will be required to provide access to the Blake Road cul-de-sac.

### **7.3. SUB-SECTION 5.2 FARLINGTON AVENUE BETWEEN SEA VIEW ROAD AND HAVANT ROAD**

7.3.1.1. Due to width restrictions on the southern section of Farlington Avenue between the junction with Sea View Road and the junction with Havant Road, a temporary road closure may be required on this link. Table 18 shows the available programme for construction on this sub-section.

**Table 18 - Sub-Section 5.2 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
5.2	Farlington Avenue between Sea View Road and Havant Road	350	Road Closure	<del>4 Weeks</del> <u>6 weeks</u>							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<p>Notes on Calendar Restrictions:  <del>Easter and summer holidays only (8 weeks)</del> <u>Work Permitted Only During: February Half-Term (1 week), Easter Holidays (2 weeks), May Half-Term (1 week), Summer Holidays (approximately 6 weeks), and October Half-Term (1 week) available. Approximate availability: 11 weeks.</u></p>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<p><del>Sub-Section 4.5 = 6 – 2 weeks (no calendar restrictions)</del>  <del>Sub-Section 5.1 = 7 – 6 weeks (similar calendar restrictions but also includes June / July outside of school holidays)</del>            Section 5.3 = 2 weeks  <del>Section 5.5 = 8 weeks (same calendar restrictions)</del>            Sub-Section 5.5 – 6 weeks  <u>(2-week restriction for South Coast Festival and Victorious Festival plus 4-week restriction at Christmas. No school term-time restrictions)</u></p>						<p><del>6 weeks</del> <u>14 weeks</u>  <u>(based on avoiding simultaneous works at Sub-Section 5.3 where there are similar school term-time restrictions)</u></p>					

7.3.1.2. ~~Due~~ Owing to the location of Solent Infant School on Eveleigh Road and Solent Junior School on Solent Road, ~~the~~ construction should only take place during the school holidays to avoid impacts to school trips. Avoidance of term time for construction is also fundamental to ensure that emergency access is maintained during term time. In addition, construction along this section should not take place simultaneously with

the following:

- Section 4.5 – Portsdown Hill Road;
- Section 5.1 and 5.3 Farlington Avenue between Portsdown Hill Road and Sea View Road and Eveleigh Road;
- Section 5.5 – Havant Road between the junction with Farlington Avenue and Eastern Road.

7.3.1.3. These restrictions will mitigate the cumulative impacts associated with construction being completed across several locations in the same area.

### 7.3.2. DESCRIPTION OF TRAFFIC MANAGEMENT MEASURES

7.3.2.1. While it is anticipated that a full road closure will be required, a limited section of shuttle working may be able to be implemented on Farlington Avenue between the junction with Sea View Road and the junction with Solent Road. This would allow two-way traffic to be retained on this link for the duration of works. This section is approximately 200 m long and thus it is anticipated that works would be in place on this link for approximately ~~2~~4 weeks in total per circuit.

7.3.2.2. Access to residential properties which are to be impacted by the proposed road closure will not be possible for the duration of works. The section of Farlington Avenue which may require a temporary road closure to accommodate construction is approximately 350m in length but would be split into construction zones of approximately 100 m in length. As such it is only access to an estimated 10-15 properties which would be impacted at any one time.

7.3.2.3. Where road closures are required, it will not be possible for vehicles to access residential properties except in an emergency. Access for pedestrians will however be retained at all times. To help minimise disruption to residents during road closures, the existing waiting restrictions on Farlington Avenue will be suspended, if agreed with PCC. This will allow for limited on-street parking on sections of Farlington Avenue north or south of the road closure.

## 7.4. SUB-SECTION 5.3 ~~---~~ EVELEGH ROAD

7.4.1.1. The Order Limit in this location also includes the section of Eveleigh Road which spans from the junction with Farlington Avenue in the west to the 70<sup>th</sup> Portsmouth Scouts Hut in the east, providing an alternative route for one circuit along the Portsmouth Water land that runs parallel to Farlington Avenue. This section of Eveleigh Road is likely to require a temporary road closure to accommodate construction. Use of this route would halve the road closure time required on Farlington Avenue between Solent Road and Havant Road. Table 19 shows the available programme for construction on this sub-section.

~~7.4.1.3. Table 19 shows the available programme for construction on this sub-section.~~

**Table 19 - Sub-Section 5.3 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
5.3	Eveleigh Road	150	Road Closure	<del>2 Weeks</del> <u>3 weeks</u>							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: <del>Easter and summer holidays only (8 weeks)</del> <u>Work Permitted Only During: February Half-Term (1 week), Easter Holidays (2 weeks), May Half-Term (1 week), Summer Holidays (approximately 6 weeks during the last week of July and throughout August), and October Half-Term (1 week) available. Approximate availability: 11 weeks.</u>											
<b>Other Restrictions</b>											
Sections						Total Availability <u>per Calendar Year</u>					
<u>Sub-Section 5.1 = <del>8</del> <u>6</u> weeks</u> <u>(similar calendar restrictions but also includes June / July outside of school holidays)</u> <u>Section 5.2 = <del>4</del> <u>6</u> weeks</u> <del>Section 5.5 – 9 weeks</del> <u>(same calendar restrictions)</u> <u>Section 5.5 – 6 weeks</u>						<del>4 weeks</del> <u>7 weeks</u> <u>(based on avoiding simultaneous works at Sub-Section 5.2 where there are similar school term-time restrictions)</u>					

(2-week restriction for South Coast Festival and Victorious Festival plus 4-week restriction at Christmas. No school term-time restrictions)

7.4.1.2.

~~7.4.1.4.~~ The part of Eveleigh Road that forms part of the Onshore Cable Corridor also provides the sole vehicular access to Solent Infant School, as stated above, and therefore all road closures on this route should be scheduled to avoid term times. ~~Construction~~ construction should also not take place simultaneously with the following sub-sections:

- Section 5.1 and 5.2 Farlington Avenue between Portsdown Hill Road and Havant Road; and
- Section 5.5 ~~—~~ (Havant Road between the junction with Farlington Avenue and Eastern Road).

7.4.1.3.

~~7.4.1.5.~~ These restrictions will mitigate the cumulative impacts associated with construction being completed across several locations in the same area.

7.4.1.4.

~~7.4.1.6.~~ Where road closures are required, it will not be possible for vehicles to access residential properties except in an emergency. Access for pedestrians ~~will~~ however, will be retained at all times.

## **7.5. DIVERSION ROUTES FOR ROAD CLOSURES ON FARLINGTON AVENUE AND EVELEGH ROAD**

7.5.1.1.

Appropriate diversion routes have been identified, as can be seen in Drawing EN02022-TMS-12 included in Appendix 2 3 to this FTMS. The diversion routes for Farlington Avenue will direct vehicles away from the Solent Road / Sea View Road and Galt Road / Eveleigh Road routes which are the shortest alternative routes during road closures for traffic wishing to continue to the northern or southern end of Farlington Avenue. The proposed diversion routes are as follows:

- For traffic left from Havant Road to Farlington Avenue: The diversion will be eastwards along A2030 Havant Road, Bedhampton Road and Portsdown Hill Road with the opposite used for southbound traffic; and
- For traffic turning right from Havant Road to Farlington Avenue: The diversion will be westwards along the Havant Road, A3 London Road, Boundary Way and Portsdown Hill Road to reach the northern end of Farlington Avenue with the opposite used for southbound traffic.

7.5.1.2. Should Eveleigh Road be used for one circuit, traffic will be diverted along Galt Road to gain access to the eastern end of Eveleigh Road.

~~7.5.1.3. Appropriate signage will be provided along this diversion at all junction locations. To mitigate 'rat-running' on roads adjacent to adjacent to Farlington Avenue 'Access Only' signs will be provided at main junctions.~~

**7.6. SUB-SECTION 5.4 – CROSSING OF HAVANT ROAD INTO FARLINGTON AVENUE ~~OR~~ AND CROSSING OF A2030 HAVANT ROAD INTO PORTSMOUTH WATER LAND**

7.6.1.1. Where the Onshore Cable Corridor crosses Havant Road it is anticipated that two temporary road closures will also be required. The road closures are anticipated to be required at the following locations, assuming the contractor routes one circuit along Farlington Avenue and one through the parallel Portsmouth Water land:

- On Havant Road directly to the south of the signal-controlled junction with Farlington Avenue; and
- On A2030 Havant Road between the ~~junctions~~ junction with the A2030 Eastern Road and the junction with Waterworks Road.

7.6.1.2. It is anticipated that these road closures will be required to allow the cable to move from across the respective junctions into and out of the main carriageway on Havant Road. Table 20 shows the available programme for construction on this sub-section.

**Table 20 - Sub-Section 5.4 Programme Availability**

Section		Description				Length (m)	Proposed TM	Duration Per Circuit			
5.4		Havant Road				N/A	Road Closure	1-2 Weekends			
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: <del>4 weeks Christmas embargo,</del> 2 weeks for South Central <del> Festival and</del> Victorious Festival, <u>plus a 4-week Christmas embargo.</u>											



<b>Other Restrictions</b>	
<u>Sections</u>	<u>Total Availability per Calendar Year</u>
<u>Sub-Section 4.5 = 2 weeks</u> <u>Sub-Section 5.2 = 4 – 6 weeks</u> <u>Sub-Section 5.3 = 2 – 3 weeks</u> <u>Sub-Section 5.5 = 8 – 6 weeks</u>	30 <del>29</del> weeks

- 7.6.1.3. It is anticipated that this closure would take place either:
- Over the course of one weekend per circuit, with construction taking place from Saturday sunrise until Sunday sunset, (including night-working); or
  - Over the course of two-weekends per circuit, with construction only taking place only during working hours of 07:00 to 22:00. Given that construction will take place during non-peak periods, there are only limited calendar ~~restriction,~~ restrictions relating to only Christmas and the South Central  ~~Festival and Victorious Festival weekends. ~~In addition, construction on this link should not coincide with:~~~~

7.6.1.4. Additionally, construction on this link should not coincide with:

- Section 5.2 – Farlington Avenue between Sea View Road and Havant Road;
- Sub-Section 5.3 – Eveleigh Road; and
- Sub-Section 5.5 – Havant Road and A2030 Eastern Road.

7.6.1.5. These restrictions will ensure that traffic disruption is not exacerbated within the local area, particularly given the need for ~~diversion~~ diversions and their intended routes.

## **7.7. DIVERSION ROUTES FOR ROAD CLOSURES ON HAVANT ROAD AND THE A2030 HAVANT ROAD**

7.7.1.1. ~~The proposed weekend~~ Weekend road closures on Havant Road will require the following diversion routes to be implemented ~~as follows, -;~~ also shown on Drawing EN02022-TMS-13 and 14 included in Appendix 2:23

7.7.1.2. •For traffic turning right from Havant Road ~~to~~ onto the A2030 Eastern Road: The diversion will be eastwards along A2030 Eastern Road, onto the A27 via the J1 of the A3(M)) and back onto the A2030 Eastern Road at the A27 Farlington roundabout; and

7.7.1.3. •For traffic turning right from Havant Road to Farlington Avenue: The diversion with

westwards along the Havant Road, A3 London Road, Boundary Way and Portsdown Hill Road. To reach the northern end of Farlington Avenue.

7.7.1.4. ~~7.7.1.2.~~ Access to Waterworks Road from Havant Road will be maintained for the duration of the road closure in this location.

7.7.1.5. ~~7.7.1.3.~~ The entirety of Havant Road / A2030 Havant Road contained within the Order Limit in Section 5.2 also forms part of the Area 3 HE Agreed Diversion Routes for the A27. Due to the designation of this route as an HE Agreed Diversion, any roadworks on this link will be coordinated with HE and scheduled as to not coincide with planned roadworks on the A27 Havant Bypass.

## 7.8. **SUB-SECTION 5.5 – HAVANT ROAD AND A2030 EASTERN ROAD BETWEEN FARLINGTON AVENUE AND FITZHERBERT ROAD ZETLAND FIELD**

7.8.1.1. Sub-Section 5.5 spans the following areas of road in the Order Limit:

- ~~The section of~~ Havant Road / A2030 Havant Road ~~which is included in the Order Limit spans from the signal~~ between the signal-controlled junction of Farlington Avenue / Havant Road ~~to~~ and the priority-~~controlled~~ junction of the A2030 Eastern Havant Road / Waterworks Road. ~~The section of A2030 Eastern Road contained within Section 5.5 spans from the signal junction with A2030 Havant Road / Havant Road to the junction with Fitzherbert Road.~~
- 7.8.1.1. A2030 Eastern Road between the signal-controlled junction with A2030 Havant Road / Havant Road and Zetland Field, approximately 200m north of the junction with Fitzherbert Road.

7.8.1.2. Table 21 shows the available programme for construction on this sub-section.

**Table 21 - Sub-Section 5.5 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit
5.5	Havant Road <u>/ the A2030 Havant Road</u> and <u>the</u> A2030 Eastern Road between Farlington Avenue and <del>Fitzherbert Road</del> <u>Zetland Field</u>	<del>800</del> <u>600</u>	Lane Closure	<del>8 Weeks</del> <u>6 weeks</u>

Calendar Restrictions											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: 2 weeks for South <del>Coast</del> / <u>Central Festival and Victorious Festival</u> <del>+ 4 weeks at</del> <u>, plus a 4-week Christmas embargo.</u>											
Other Restrictions											
Sections						Total Availability <u>per Calendar Year</u>					
<del>Section 5.2 – 4</del> <u>Sub-Section 5.2 – 6 weeks</u> <u>Section 5.4 – 2 weekends,</u> <u>Sub-Section 6 – 1 week</u>						<del>41</del> <u>39</u> weeks					

7.8.1.3. ~~7.8.1.2.~~ As with Section 5.4, construction work should be avoided in December due to the Christmas shopping period and the proximity to Sainsbury’s / B&M Home Store in Farlington. Certain parts of May and August should also be avoided due to the South Coast and Victorious Music Festivals, which use the nearby Farlington playing fields as a campsite for those attending these events.

## 7.8.2. DESCRIPTION OF TRAFFIC MANAGEMENT MEASURES

### Havant Road

7.8.2.1. The Onshore Cable Corridor runs through Farlington Avenue / Havant Road / A2030 Eastern Road traffic signal junction, which is dual carriageway and comprises of four lanes, two in each direction.

7.8.2.2. When the construction zone is running east/west along Havant Road, rather than north/south as described in Sub-section 5.4, single lane closures will be required. ~~As a result it~~ It will also be necessary to temporarily restrict right turns between Havant Road and Farlington Avenue and between Havant Road and between Havant Road and A2030 Eastern Road ~~in order~~ to minimise traffic delays at the ~~junction~~ junctions. The single lane closures are anticipated to be in place for approximately 2 weeks per circuit.

### A2030 Eastern Road

7.8.2.3. ~~7.8.2.3.~~ Construction ~~in~~ along the A2030 Eastern Road in Sub-Section 5.5 can be

accommodated using temporary single lane closures. These lane closures will be in place on only one of the carriageways at any given time to minimise disruption to road users. The part of A2030 Eastern Road contained within Section ~~5.2~~ 5.5 is approximately ~~600~~ 400 m in length, and thus it is anticipated that the proposed single lane closures will be in place for approximately ~~7 weeks per circuit should the Onshore Cable Corridor remain within the carriageway for the entire section. Opportunities to reduce the length of lane closures will however be taken where possible and practical, through the use of Zetland Field on the eastern side of the Eastern Road. If this is used in its entirety, the length of lane closures will be reduced by 250 m and 3~~ 4 weeks per circuit.

7.8.2.4.

~~7.8.2.4.~~ Where works are completed off-carriageway, a temporary closure and diversion of one of the shared-use path ~~paths alongside the A2030 Eastern Road~~ will be required ~~that is present on both sides of the Eastern Road~~. Due the limited options for suitable ~~diversions away from Eastern Road~~ non-motorised users to divert, any temporary closures of a shared-use path will be facilitated by a diversion route that runs parallel to the construction zone. As with the overall works, any closure will be limited to 100 m at a time as the construction zone progresses along the A2030 Eastern Road.

## 8. SECTION 6 – SAINSBURY’S CAR PARK

- 8.1.1.1. The highway network in Section 6 is inclusive of Fitzherbert Road between the signal-controlled junction with the A2030 Eastern Road and the signal-controlled junction with the access ~~to~~ into the car park of Sainsbury’s Farlington Superstore. Also included in this section is the part of Sainsbury’s car park. The FTMS proposals are shown ~~on~~ in Drawing EN02022-TMS-6 included in Appendix ~~1 to this FTMS~~ 2.
- 8.1.1.2. Table 22 shows a breakdown of the calendar year, showing availability for the construction of the Onshore Cable Route to take place within this section.

**Table 22 - Section 6 Programme Availability**

Section		Description		Length (m)	Proposed TM	Duration Per Circuit					
6		Fitzherbert Road		60	Lane Closure	1 <del>Week</del> <u>week</u>					
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions:											
2 weeks for South <del>Coast /</del> <u>Central Festival and</u> Victorious Festival <del>+ December for</del> <u>, plus a 4-week Christmas embargo.</u>											
<b>Other Restrictions</b>											
<u>Sections</u>				<u>Total Availability per Calendar Year</u>							
<u>Sub-Section 5.5</u> <del>= 8</del> <u>6</u> weeks				<del>38</del> <u>40</u> weeks							

8.1.1.3. As with Section 5.5 construction work should be avoided in December due to the Christmas shopping period and the proximity to Sainsbury's and B&M Home Store. ~~Certain parts of May and August should also be avoided due the South Coast and Victorious Music Festivals, which use the nearby Farlington playing fields as a campsite for those attending these events.~~

8.1.1.4. Additionally, Certain parts of May and August should also be avoided due the South Central and Victorious Music Festivals, which use the nearby Farlington playing fields as a campsite for those attending these events.

8.1.1.5. ~~8.1.1.4.Construction~~ Finally, construction within this sub-section should also not take place simultaneously with Sub-Section 5.5, to minimise the traffic ~~impact~~ impacts within this area.

## DESCRIPTION OF TRAFFIC MANAGEMENT MEASURES

### Fitzherbert Road

8.1.1.6. ~~8.1.1.5.~~ Within Fitzherbert Road, it is anticipated that construction can be accommodated with the use of single lane closures. The part of Fitzherbert Road contained within Section 6 is approximately 60 m long and thus it is anticipated that these single lane closures will be in place for approximately ~~4-5 days per circuit.~~ 1 week per circuit. These works may be completed on a 24hr working basis to minimise disruption to Sainsbury's and B&M Home Store. Where this occurs, the noisiest activities (road cutting / breaking and resurfacing) will be avoided between 22:00 and 07:00.

8.1.1.7. ~~8.1.1.6.It~~ Furthermore, it is anticipated that temporary three-way signals ~~may~~ will need to be implemented at the junction of Fitzherbert Road and the access to Sainsbury's Car Park. The temporary signals will ensure that access to Sainsbury's Car Park is maintained at all times throughout construction. Similar construction working hours may be used as for Fitzherbert Road to minimise disruption to Sainsbury's and B&M Home Store.

### Sainsbury's Car Park

8.1.1.8. ~~8.1.1.7.~~ The Order Limits contain a portion of the car park of Sainsbury's Farlington Superstore. It is anticipated that partial closure of the car park may be required for the duration of works. This partial closure would likely include the temporary suspension of parking spaces on the western side of the Car Park. Construction taking place in Sainsbury's Car Park may require the temporary realignment of the Car Park's internal road, making it one way in the southbound direction on the western side.

## 9. SECTION 7 – FARLINGTON JUNCTION TO AIRPORT SERVICE ROAD

9.1.1.1. Section 7 is inclusive of the A2030 Eastern Road between the junction with A27 Havant Bypass and the junction with Airport Service Road. It is anticipated that construction in Section 7 will take place entirely off carriageway, and thus no traffic management measures are deemed necessary in this Section.

9.1.1.2. Table 23 shows a breakdown of the calendar year, showing availability for the construction of the Onshore Cable Route to take place within this section. Certain parts of May and August should also be avoided due the South Coast and Victorious Music Festivals, which use ~~the nearby~~ Farlington playing fields as a campsite for those attending these events.

**Table 23 - Section 7 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
7	<del>A2030 Eastern Road north of Airport Service Road</del> <a href="#">Farlington Playing Fields and Langstone Harbour Playing Fields</a>	N/A	N/A	N/A							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: 2 weeks for South <del>Coast /</del> <a href="#">Central Festival and</a> Victorious Festival <del>+ 4 Weeks in December for</del> <a href="#">plus a 4-week Christmas embargo.</a>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
N/A						46 weeks					

9.1.1.3. As these works are not being completed on ~~carriageway~~ carriageway, there is no requirement to avoid simultaneous construction with other nearby sections.



# 10. SECTION 8 – A2030 EASTERN ROAD (ADJACENT TO GREAT SALTERNS GOLF COURSE) TO MOORINGS WAY

10.1.1.1. Section 8 is inclusive of the ~~part of~~ A2030 Eastern Road between the signal-controlled junction A2030 Eastern Road / Airport Service Road in the north and the priority-controlled junction of A2030 Eastern Road / Eastern Avenue in the south. Also included within Section 8 is the entirety of Eastern Avenue. The FTMS proposals are shown on ~~Drawing~~ Drawings EN02022-TMS-7 and 8 ~~included in,~~ which are contained within Appendix ~~4~~ 2.

10.1.1.2. For the purpose of this assessment, Section 8 has been split into ~~two subsections~~ three sub-sections as follows:

- **Sub-Section 8.1** ~~A2030~~ A2030 Eastern Road between the junction with Airport Service Road and the junction with Tangier Road;
- **Sub-Section 8.2** ~~A2030~~ A2030 Eastern Road between the junction Tangier Road and the junction with Eastern Avenue; and
- **Sub-Section 8.3** ~~Eastern~~ Eastern Avenue.

10.1.1.3. Sub-Section 8.2 has been further disaggregated into three options to take account of the multiple options for cable routing in this location.

10.1.1.4. ~~10.1.1.3.~~ Where works are completed off-carriageway ~~on~~ along the Eastern side of the A2030 Eastern Road, a temporary closure and diversion of the shared-use path will be required ~~which~~. This shared-use path forms part of National Cycle Network Route 222. Due to the limited options for suitable diversions away from Eastern Road, any temporary closures will be facilitated by a diversion route that runs parallel to the construction zone. As with the overall works, any closure will be limited to 100 m at a time as the construction zone progresses along the A2030 Eastern Road.

## 10.2. SUB-SECTION 8.1 – A2030 EASTERN ROAD BETWEEN THE JUNCTION WITH AIRPORT SERVICE ROAD AND TANGIER ROAD

10.2.1.1. Table 24 ~~shows~~ details ~~of~~ the programme availability for Sub-Section 8.1. Due the volume of traffic which uses the A2030 Eastern Road, construction works should be limited to the Easter holiday~~holidays~~, ~~summer holiday periods or June~~ May half-term (outside of the football season), June, early July and summer holiday periods. During the summer construction will also need to avoid the Victorious Festival at the end of August.

**Table 24 – Sub-Section 8.1 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
8.1	A2030 Eastern Road between Airport Service Road and Tangier Road	1200	Lane Closures	<del>4-5</del> Weeks (24hr, 7-Day construction)  <del>9-8</del> Weeks (10hr, 7-Day construction)							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: <u>Work Permitted Only During: Easter Holidays (2 weeks) <del>and June, July</del> May Half-Term (1-week), June, July and August (13 weeks) available approximately 13 weeks, with avoidance of the Victorious Festival Weekend.</u> <u>Approximate availability: 16 weeks.</u>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<u>Sub-Section 8.2 = <del>1-10</del> = <del>2-11</del> weeks</u>						<del>5-14</del> <del>8-14</del> weeks (depending <del>on</del> <u>upon</u> option used for <u>Sub-Section 8.2</u> )					

10.2.1.2. Construction within this section should also not take place simultaneously with any other construction works ~~within~~ along the A2030 Eastern Road contained ~~in~~ within Section 8. This is to mitigate the cumulative traffic impacts of ~~the~~ construction taking place in two sections of the same road.

#### DESCRIPTION OF TRAFFIC MANAGEMENT MEASURES

10.2.1.3. It is anticipated that the construction corridor on A2030 Eastern Road will require single lane closures on both the southbound and northbound carriageways between the junction with Airport Service Road and the junction with Tangier Road. These single lane closures will be scheduled as so they do not take place concurrently on the northbound and southbound carriageways as to minimise disruption. This section of Section 8.1 is approximately 1200 m long.

10.2.1.4. Discussions with PCC indicate that due to the heavily trafficked nature of this link, the use of 24-hour, seven-day a week working would be preferable in this section to minimise the period that traffic management is in place. Use of 24-hour working by construction teams on this link would increase the progression rate to approximately ~~45~~ 36 m per 24-hour period. At this rate of construction, works on this link are likely to take approximately ~~4~~ 5 weeks per circuit assuming a seven-day working week.

10.2.1.5. If 24-hour working ~~was~~ is employed on a ~~five-day~~ seven-day working week the period of construction would be 5 weeks per circuit ~~would be 6 weeks~~. If ~~the standard a~~ 10-hour working day ~~was~~ is used across a seven-day period (07:00-17:00 Monday to Friday and 08:00-18:00 at the weekend), the construction period would take ~~9~~ 8 weeks per circuit. This highlights the mitigation achieved by use of 24-hour, seven-day a week working.

10.2.1.6. It should also be noted that between the junction with Burrfields Road and Tangier Road may be able accommodate installation of at least one circuit off-carriageway, using the verge on the eastern verge of the A2030 Eastern Road. Where on-carriageway works are required, the preferred option would be single lane closures on the southbound carriageway only. This is preferred over use of the northbound carriageway as the two-lane southbound carriageway merges into one lane further downstream, ~~therefore meaning that a single lane closure will have only a minor impact on overall traffic delay.~~

10.2.1.7. Four junctions intersect the A2030 Eastern Road in Section 8.1, ~~these~~ These are as follows:

- Signal-controlled junction of A2030 Eastern Road / Airport Service Road;
- Signal controlled junction of A2030 Eastern Road / Burrfields Road;
- Priority controlled access junction, providing access to Langstone Harbour Viewing Car Park; and
- Signal controlled junction of A2030 Eastern Road / Tangier Road.

10.2.1.8. Due to the volume of traffic which travels through the three signal-controlled junctions in Section 8.1, it is not considered appropriate to temporarily suspend side road access ~~throughout~~ during construction regardless of which, if any, of the carriageways on this link are impacted. Whilst the roads which gain access from these signal-controlled junctions are not cul-de-sacs, and consequently remain accessible via alternate routes on the wider road network, the level of demand on them renders it unfeasible for access to be temporarily suspended via A2030 Eastern Road. Where necessary, temporary ~~lights~~ signals will instead be implemented, if required, although depending on the location of the Construction Zone it may be possible for each junction to operate under the existing traffic signal control but with single lane closures on entry or exit.

10.2.1.9. A2030 Eastern Road in Section 8.1 grants the sole vehicular access to The Great Salterns Mansion Harvester, and Harbourside Holiday Park, a complex of 69 holiday homes. Both the Harvester and Holiday Park gain access exclusively from the signal-controlled junction of the A2030 Eastern Road / Burrfields Road, and thus access will continue to be facilitated through the phasing of ~~the~~ construction.

10.2.1.10. The access to Langstone Harbour Viewing Car Park on the southbound carriageway, may require temporary suspension throughout the course of construction ~~on the southbound carriageway, although where possible it~~. Where possible, access will be maintained by road plating of the access. ~~This~~ In any case, access will only be impacted by the installation of one ~~cable, and the~~ circuit for a period of one week or less.

### 10.3. **SUB-SECTION 8.2 ~~--~~ A2030 EASTERN ROAD BETWEEN TANGIER ROAD AND EASTERN AVENUE**

10.3.1.1. Section 8.2 includes the section of the A2030 Eastern Road which spans from the junction with Tangier Road to the junction with Eastern Avenue. Table 24 shows details of the programme availability for Section 8.2. Due the volume of traffic which uses Eastern Road construction works should be limited to Easter holiday, May half-term, June / July and summer holiday periods ~~or May / June outside of the football~~

~~season~~. During the summer construction will also need to avoid the Victorious Festival at the end of August.

**Table 25 - Sub-Section 8.2 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
8.2 <a href="#">Option 1</a>	<del>A2030 Eastern Road between Tangier Road and Eastern Avenue</del> <a href="#">Both Circuits within Milton Common</a>	<del>1300</del> <a href="#">Up to 300m in carriageway</a>	Lane Closures <a href="#">Closure</a>	<del>1 Week (24-hr, 7-Day working and use of Milton Common)</del> <del>10 Weeks (Eastern Road only, 7-Day working)</del> <a href="#">1-2 week (24hr, 7-day working) – 2 weeks (10hr, 7-day working)</a>							
<a href="#">8.2 Option 2</a>	<a href="#">One Circuit within Milton Common</a>	<a href="#">1300m</a>		<a href="#">8 weeks (10hr, 7-day working)</a>							
<a href="#">8.2 Option 3</a>	<a href="#">Both Circuits within the A2030 Eastern Road</a>			<a href="#">11 weeks (10hr, Mon-Fri plus 5hr on Saturdays)</a>							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<p>Notes on Calendar Restrictions:</p> <p><a href="#">Work Permitted</a> Only <a href="#">During</a>: Easter Holidays (2 weeks) <del>and</del> half of May (<a href="#">2-weeks</a> outside of football season) <del>June, July, August (15 weeks) available</del> <a href="#">June July and August (approximately 13 weeks, with avoidance of the Victorious Festival Weekend).</a></p> <p><a href="#">Approximate availability: 17 weeks.</a></p>											

<b>Other Restrictions</b>	
<u>Sections</u>	<u>Total Availability per Calendar Year</u>
<u>Sub-Section 8.1</u> <del>=4-9-</del> <u>5-8</u> weeks <i>(depending on <u>upon</u> working hours <u>used</u>)</i>	<del>8-13-9-12</del> weeks <i>(depending on <del>Option</del> <u>upon</u> working hours used for <u>Sub-Section 8.1</u>)</i>

10.3.1.2. Construction within this section should also not take place simultaneously with any other construction works within A2030 Eastern Road contained in Section 8 to mitigate the cumulative impacts of the construction taking place in two sections of the same road.

**DESCRIPTION OF TRAFFIC MANAGEMENT MEASURES**

10.3.1.3. Section 8.2 is inclusive of ~~multiple~~ three options for cable routing, ~~these options,~~ These are ~~as~~ set out below. Any construction taking place within the carriageway of A2030 Eastern Road will be facilitated by single lane closures.

**Option 1 – Both Circuits within Milton Common**

10.3.1.4. ~~Both Option 1 involves both~~ circuits exiting the carriageway ~~at the junction of A2030 Eastern Road at the junction of south of the~~ A2030 Eastern Road / Tangier Road signal-controlled junction, travelling south through the centre of Milton Common. Should both circuits be accommodated off-~~carriageway~~ carriageway using Milton Common, then ~~traffic management in the form of~~ single lane closures would only be required for up to 300m. As with Sub-Section 8.1, 24-hour, seven-day a week working would be preferable to minimise the period of disruption, leading to a 1-2 week construction period per circuit.

10.3.1.5. ~~10.3.1.6.~~ If 24-hour working ~~was~~ is employed on a five-day working week the period of construction per circuit would be 2 weeks. If the ~~standard~~ 10-hour working day ~~was~~ is used across a seven-day period (07:00-17:00 Monday to Friday and 08:00-18:00 at the weekend), the construction period would take 3-2 weeks per circuit. ~~This highlights the mitigation achieved by use of 24-hour, seven-day a week working.~~

**Option 2 – One Circuit within Milton Common**

10.3.1.6. ~~10.3.1.7.~~ Should it only be practicable for one of the ~~construction corridors~~ circuits to be accommodated off-carriageway, one ~~construction corridor~~ circuit may be required to be installed on-carriageway. This would require a single lane closure on the southbound carriageway of A2030 Eastern Road between Tangier Road and Eastern Avenue. ~~For~~ As the majority of this section the Eastern Road contains only one

southbound lane, the lane closure would be accommodated by lane realignment. This would involve either the existing central hatching or one of the two northbound lanes operating in the southbound direction. It is considered that this will not have a significant impact on northbound traffic flow, due to this being constrained further south by the Eastern Road / Velder Avenue / Milton Road traffic signal junction.

10.3.1.7. ~~10.3.1.8.~~ This would involve the same construction period as Option 1 for one circuit but the other would require ~~10-8 weeks of single lane closures if a 10-hour working day is used across a seven-day period (07:00-17:00 Monday to Friday and 08:00-18:00 at the weekend).~~ Construction for one circuit would require 11 weeks of single lane closures if standard 10-hour day was used across a seven-day period a 10-hour working day is used Monday to Friday (07:00-17:00) and a 5-hour working day on Saturdays (08:00-13:00). 24-hour working is not possible on this link due to proximity of residential properties.

10.3.1.8. ~~10.3.1.9.~~ There ~~With the exception of the East Shore Way cul-de-sac, there~~ are no junctions ~~which intersect or private properties that gain access from~~ the southbound carriageway of A2030 Eastern Road in the section which would be impacted by this single lane closure. ~~Furthermore, no private properties gain access from the southbound carriageway in this part of A2030 Eastern Road.~~

### **Option 3 – Both Circuits within the A2030 Eastern Road**

10.3.1.9. ~~10.3.1.10.~~ Should the use of all off-carriageway options be ~~excluded~~ deemed unfeasible by contractors as unfeasible, both cable circuits will be ~~placed in~~ installed within the carriageway along the A2030 Eastern Road in Section 8.2. This would require temporary single lane closures on both the southbound and northbound carriageways, albeit at separate times. Should both cable circuits be placed within the carriageway, traffic management would span between the junctions with Tangier Road and the junction with Eastern Avenue. This section of A2030 Eastern Road is approximately 1.3 km in length and it is anticipated that if required, the traffic management on this link will be in place for ~~10-8 weeks per circuit if standard 10-hour day working~~ was used across a seven-day (07:00-17:00 Monday to Friday and 08:00-18:00 at the weekend). Construction for one circuit would require 11 weeks of single lane closures if a 10-hour working day is used Monday to Friday (07:00-17:00) and a 5-hour working day on Saturdays (08:00-13:00).

10.3.1.10. ~~10.3.1.11.~~ It should be noted that 24-hour working is not appropriate on the majority of the section of A2030 Eastern Road contained within Section 8.2, due to its proximity to residential dwellings.

10.3.1.11. ~~10.3.1.12.~~ Six junctions intersect A2030 Eastern Road between the junction with



Tangier Road and the junction with Eastern Avenue, these junctions are as follows:

- A2030 Eastern Road / Sword Sands Road;
- A2030 Eastern Road / Hayling Avenue;
- A2030 Eastern Road / Stride Avenue;
- A2030 Eastern Road / Kirpal Road / East Shore ~~Read~~Way; and
- A2030 Eastern Road / Langstone Road; ~~and~~.
- A2030 Eastern Road / Eastern Avenue.

10.3.1.12.

~~10.3.1.13.~~ It is proposed that, ~~should this route be required~~Should Option 3 be pursued in Sub-Section 8.2, it is proposed that a temporary restriction of right turn movements is implemented at ~~the junction with Hayling Avenue, Stride Avenue, Langstone Road and Sword Sands Road throughout the duration of construction on carriageway~~these junctions during construction to help mitigate the disruption to traffic flow.

**10.4. SUB-SECTION 8.3 ~~---~~ EASTERN AVENUE**

10.4.1.1.

Eastern Avenue, a residential street off the A2030, which gives access to several side roads and private residential properties. Traffic management on Eastern Avenue will only be required in the eventuality that works cannot be accommodated in Milton Common. Table 26 shows ~~a~~ details of the programme availability for Section 8.3.

**Table 26 – Sub-Section 8.3 Programme Availability**

Section		Description				Length (m)	Proposed TM	Duration Per Circuit			
8.3		Eastern Avenue				220	Road Closure	<del>3 Weeks</del> <u>4</u>			
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: <del>No calendar restrictions identified</del> <u>2 week restriction at Christmas / New Year</u>											
<b>Other Restrictions</b>											

<u>Sections</u>	<u>Total Availability per Calendar Year</u>
<del>section</del> <u>Section</u> 9.11 = 3 weeks Section 9.12 = 5 weeks	<del>44</del> <u>42</u> weeks

10.4.1.2. Eastern Avenue is approximately 220 m long and thus it is anticipated that if traffic management measures on this link are required, they will be in place for approximately ~~3~~ 4 weeks per circuit.

10.4.1.3. Due to width restrictions on this link, should construction be required in Eastern Avenue, a full road closure will likely be required. Use of the route option that includes Milton Common rather than Eastern Avenue would remove the need for this road closure.

10.4.1.4. ~~10.4.1.3.~~ Eastern Avenue provides the sole vehicular access to the residential roads of Salterns Avenue, Shore Avenue and Lacey Road. As such, if use of this link is required construction ~~on this link~~ would be split into two parts. The first construction zone would span from the junction of A2030 Eastern Road / Eastern Avenue to just north of the junction of Eastern Avenue / Salterns Avenue. This would allow vehicular access to Salterns Avenue, the adjoining roads, and the southern section of Eastern Avenue to be retained via the junction with Moorings Way. The second construction zone would span the remainder of Eastern Avenue which falls to the south of the junction with Salterns Avenue, this would allow continued access to Salterns Avenue / Shore Avenue and the northern section of Eastern Avenue to be retained.

# 11. SECTION 9 - MOORINGS WAY TO BRANSBURY ROAD

- 11.1.1.1. Depending upon the chosen route in Section 8, Section 9 will either start at the Moorings Way to Furze Lane bus link (if the Onshore Cable Route is constructed within the centre of Milton Common) or at the point on Moorings Way adjacent to Eastern Avenue. The FTMS proposals for Section 9 are shown on Drawing EN02022-TMS-8 included in Appendix 4-2 to this FTMS.
- 11.1.1.2. Contained within Section 9 are the following ~~eight~~six sub-sections:
- **Sub-Section 9.1** – Moorings Way:
    - ~~Sub-section~~ Sub-Section 9.11 – Moorings Way between Eastern Avenue and ~~Goodwit~~Godwit Road;
    - ~~Sub-section~~ Sub-Section 9.12 – Moorings Way between ~~Goodwit~~Godwit Road and the Moorings Way to Furze Lane Bus Link; and
  - **Sub-Section 9.2**
    - ~~– Furze Lane:\*~~ ~~Sub-section 9.21~~ ~~– Moorings Way to Furze Lane bus link;~~
    - ~~\* Sub-section 9.22 – Furze Lane;~~
  - ~~Sub-Section~~ 9.3 – Other Roads to Bransbury Park:
    - ~~Sub-section 9.31~~ Sub-Section 9.21 – Locksway Road;
    - ~~Sub-section 9.32~~ Sub-Section 9.22 – Longshore Way;
    - ~~Sub-section 9.41~~ Sub-Section 9.31 – Kingsley Road; and
    - ~~Sub-section 9.42~~ Sub-Section 9.32 – Yeo Court.
- 11.1.1.3. It should be noted that ~~sub-sections~~ Sub-sections 9.11 and 9.12 will only be required if Section 8 of the Onshore Cable Route is constructed along the section of the A2030 Eastern Road between Hayling Avenue and Eastern Avenue or on the western side of Milton Common (option 2 or 3 of Sub-Section 8.2). Conversely, if the Onshore Cable Route is constructed within the centre of Milton Common, Section 9 will start at ~~sub-section~~ Sub-Section 9.21.

~~11.1.1.4. Additionally, sub-section 9.21 and 9.22 will only be affected if the Onshore Cable is built along the eastern side of the University of Portsmouth Langstone Student Village complex and via Longshore Way. If this option is not taken forward, sub-section 9.32 will not be necessary.~~

## 11.2. SUB-SECTION 9.11 – MOORINGS WAY BETWEEN EASTERN AVENUE AND ~~GOODWIT~~ GODWIT ROAD

11.2.1.1. As with Section 8, the Order Limits ~~with~~ within Section 9.11 and 9.12 contains multiple options for cable routeing along Moorings Way. These options are as follows:

- Option 1 – All works accommodated off-carriageway along the southern edge of Milton Common, with the construction corridor re-joining the carriageway at the start of the Moorings Way to Furze Lane Bus Link; and
- Option 2 – One circuit to be placed in the carriageway on Moorings Way and one installed within the southern edge of Milton Common.

11.2.1.2. It is not anticipated that there would be any eventuality in which both HVDC Circuits would need to be accommodated within the carriageway on Moorings Way.

11.2.1.3. Table ~~27~~ 27 shows the programme availability for Sub-section 9.11, which will require shuttle working traffic signals to facilitate installation of at least one of the HVDC cables. These restrictions would not be required if the Cables were installed within the edge of Milton Common.

**Table 27 – Sub-Section 9.11 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
9.11	Moorings Way between Eastern Avenue and Godwit Road (passes <del>Mooring</del> <u>Mooring</u> Way Infant School)	250	Shuttle Working	3 <del>Weeks</del> <u>weeks</u>							
Calendar Restrictions											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: Only <u>February Half-Term (1 week)</u> , Easter <del>and Summer holidays – 8 weeks</del> <u>Holidays (2 weeks)</u> .											

May Half-Term (1 week), Summer Holidays (approximately 6 weeks), and October Half-Term (1 week) available. Approximate availability: 11 weeks.

**Other Restrictions**

<u>Sections</u>	<u>Total Availability per Calendar Year</u>
<u><del>Sub-Section 9.12</del> = <del>5</del> weeks <u>(no school term-time restrictions)</u></u>	<del>8</del> <u>11</u> weeks

11.2.1.4. As Sub-Section 9.11 runs past Moorings Way Infant School, construction works are to be restricted to school holidays only. This will ensure that emergency access is maintained throughout school term-time and school trips are unaffected.

11.2.1.5. ~~1.1.1.2. As this sub-section runs past Moorings Way Infant school as restriction has been placed on construction works to during school holidays only. In addition~~ Additionally, it is recommended that construction does not take place simultaneously with works in Sub-Section 9.12 (Moorings Ways between Godwit Road and the Moorings Way to Furze Lane Bus Link) when ~~these~~ works are taking place on carriageway. ~~These restriction to~~ This would help minimise disruption to local residents and ~~school pick-up / drop-off times~~ bus users.

11.2.1.6. Sub-Section 9.11 contains one junction. This is with Warren Avenue which is not a cul-de-sac. Therefore, Warren Avenue will be accessible via alternate routes throughout the duration of works. Where possible, access onto Mooring Way will be maintained through road plating.

**11.3. SUB-SECTION 9.12 – MOORINGS WAY BETWEEN ~~GOODWIT~~ GODWIT ROAD AND MOORINGS WAY TO FURZE LANE BUS LINK**

11.3.1.1. Table 28 shows the programme availability for ~~Sub-section 9.11~~ Sub-Section 9.12, which will require shuttle working traffic signals to facilitate installation of at least one of the cable ~~ei~~ circuits. These restrictions would not be required if ~~the Onshore Cables~~ both circuits were installed within the edge of Milton Common.

**Table 28 ~~---~~ Sub-Section 9.12 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
9.12	Moorings Way between <del>Goodwit</del> <u>Godwit</u> Road and Moorings Way to Furze Lane Bus Link	500	Shuttle Working	5 <del>Weeks</del> <u>weeks</u>							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: <del>No calendar Restrictions identified</del> <u>2 week restriction at Christmas / New Year</u>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<u><del>Sub-Section 9.11</del> <u>---</u> 3 weeks</u>						<del>49</del> <u>47</u> weeks					

~~11.3.1.2. As this sub-section runs past Moorings Way Infant school as restriction has been placed on construction works to during school holidays only. In addition, it is recommended that construction does not take place simultaneously with works in Sub-Section 9.12 (Moorings Ways) when these works are taking place on carriageway. These restriction to minimise disruption to residents and school pick-up / drop-off times.~~

11.3.1.2. It is recommended that construction does not take place on this Sub-Section simultaneously with works in Sub-Section 9.12 (Moorings Ways between Eastern Avenue and Godwit Road) when works are taking place on carriageway. These restrictions are to minimise disruption to residents and school pick-up / drop-off times.

11.3.1.3. To accommodate one circuit on-carriageway, shuttle working would be required on Moorings Way between ~~the cycle connection that links Eastern Avenue with Moorings Way~~ Goodwit Road and the junction of Moorings Way / Sanderling Road. This section of Moorings Way is approximately ~~800~~ 500 m in length and thus it is anticipated that construction on this link will take approximately ~~8~~ 5 weeks to complete.

11.3.1.4. The section of Moorings Way in ~~Section 9~~ Sub-Section 9.12 contains ~~three~~ three junctions

with the following side roads:

- ~~• Warren Avenue;~~
- [Godwit Road](#)
- Schooner Way; and
- Sanderling Road.

11.3.1.5. None of the side roads adjoining this link are cul-de-sacs, and therefore all are accessible via alternate routes throughout the duration of works. Where possible, access onto Mooring Way will also be maintained through road plating.

**11.4. ~~SUB-SECTION 9.21 – MOORINGS WAY TO FURZE LANE BUS~~  
~~LINK~~[LOCKSWAY ROAD](#)**

11.4.1.1. [Sub-section 9.21 contains the section of Locksway Road between the access road to Eastney and Milton Allotments and the access point to the Thatched House Public House.](#)

11.4.1.2. Table 29~~11.4.1.1.~~ shows the programme availability for ~~Sub-section 9.21. The Moorings Way to Furze Lane Bus Link is a single lane road for the exclusive use of buses and cyclists. It provides a connection between Moorings Way and Furze Lane.~~[Sub-Section 9.21.](#)

**Table 29 ~~–~~ [Sub-Section 9.21 Programme Availability](#)**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit													
9.31	Locksway Road between access road to Milton Piece Allotments and	90	Shuttle Working	1 Week													
<b>Calendar Restrictions</b>																	
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec						
Notes on Calendar Restrictions: N/A																	
<b>Other Restrictions</b>																	
<u>Sections</u>						<u>Total Availability</u>											
Section 9.22 – 2 weeks						Section 9.32 – 2 weeks						48 weeks					

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
9.21	<del>Moorings Way to Furze Lane bus link</del> Locksway Road between access road to Milton Piece Allotments and Thatched House Public House	<del>370</del> 90	Read Closure Shuttle Working	3 Weeks 1 week							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: <del>No calendar Restrictions identified</del> <u>2 week restriction at Christmas / New Year</u>											
<b>Other Restrictions</b>											



<u>Sections</u>	<u>Total Availability per Calendar Year</u>
<del>Section 9.22 – 2 weeks</del>	<del>50 weeks</del>
<u>Section 9.22 – 2 weeks</u>	<u>48 weeks</u>

~~11.4.1.2. Due to width restrictions on this link it is anticipated that a full road closure will be required throughout the duration of works. In order to minimise disruption both circuits should be constructed within the Bus Link at the same time.~~

~~11.4.1.3. Throughout the duration of works, the adjoining footway will remain open to allow pedestrians continued passage. It is also anticipated that this footway will be temporarily open up to allow for use by cyclists throughout the duration of the works. Continued access to this link as a through route for pedestrians and cyclists is required due to the long diversion which would otherwise be required.~~

~~11.4.1.4. To mitigate the closure of the Bus Link, a shuttle bus service will be provided for the period of construction works, routing along Moorings Way and Locksway Road and linking Service 13 which will continue along Milton Road. Such a measure will ensure that access to the bus service is retained for all existing passengers.~~

## ~~11.5. SUB-SECTION 9.22 – FURZE LANE~~

~~11.5.1.1. Table 30 shows the programme availability for Sub-section 9.22. Furze Lane provides a link between the Furze Lane bus link and Locksway Road.~~

**Table 30 – Sub-Section 9.22 Programme Availability**

Section		Description				Length (m)	Proposed TM	Duration Per Circuit			
9.22		Furze Lane				150	Shuttle Working	2 Weeks			
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: No calendar restrictions identified											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability</u>					
Section 9.21 = 3 weeks						49 weeks					

~~11.5.1.2. Furze Lane is approximately 150 m long and thus it is anticipated that construction on this link will take 2 weeks per circuit. It is anticipated that on this link, two-way shuttle working facilitated by temporary signals will be required throughout the duration of works.~~

~~11.5.1.3. Temporary suspension of access to the junctions with Broom Square may be required during works. Suspension of access to Broom Square will only be implemented at one of the two access junctions at any one time to ensure that access is retained at all times.~~

## ~~11.6. SUB-SECTION 9.31 - LOCKSWAY ROAD~~

~~11.6.1.1. Sub-section 9.31 contains the section of Locksway Road between the access road to Milton Piece Allotments and Thatched House Public House. Table 31 shows the programme availability for Sub-section 9.22~~

**Table 31 – Sub-Section 9.31 Programme Availability**

~~11.4.1.3. 11.6.1.2. It is anticipated that shuttle working facilitated by temporary traffic signals will be required on the section of Locksway Road between the junction with Furze Lane and the access to the Thatched House Public House to accommodate~~

installation of each cable circuit.

11.4.1.4.

~~11.6.1.3.~~ The remainder of Locksway Road contained within the Order Limits is intended for use for construction access to Milton Piece Allotments only, and as such, it is not anticipated that any traffic management will be required on this link.

11.4.1.5.

~~11.6.1.4.~~ The part of Locksway Road for which shuttle working is required provides exclusive vehicular access to Locks Sailing Club, Langstone Harbour Fishermen’s Association, Thatched House Public House and Old Oyster Public House. Access to all of the aforementioned premises will be retained throughout construction where possible through the use of road plating.

11.5.

**11.7. SUB-SECTION ~~9.32~~ 9.22 – LONGSHORE WAY**

11.5.1.1.

If the Onshore Cable ~~route~~ Route uses the Portsmouth University playing fields shuttle working traffic signals will be required on Longshore Way for approximately 70-150 m or 1-2 weeks per circuit, depending ~~on where the playing fields~~ upon the exact routeing of the circuits. ~~Table 32 shows the programme availability for sub-section 9.32.~~

11.5.1.2.

11.5.1.3.

Table 30 shows the programme availability for Sub-Section 9.22.

**Table ~~32-30~~ – Sub-Section ~~9.32~~ 9.22 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit
<del>9.32</del> <u>9.22</u>	Longshore Way	150	Shuttle Working	2 Weeks

Calendar Restrictions											
J	F	M	A	M	Jun	J	A	S	C	N	Dec
a	e	a	p	a		u	u	e	c	o	
n	b	r	r	y		l	g	p	t	v	
Notes on Calendar Restrictions: <del>No calendar restrictions identified</del> <u>2 week restriction at Christmas / New Year</u>											
Other Restrictions											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<u>Sub-Section 9.21</u> – 1 week						<del>Section 9.31</del> – <del>51</del> <u>49</u> weeks					

11.5.1.4. ~~11.7.1.1.~~ The only restriction on construction relates to ~~Section 9.31~~ Sub-Section 9.21 Locksway Way Road. This will avoid two sets of shuttle working traffic signals within the same vicinity.

11.6. ~~11.8.~~ **SUB-SECTION ~~9.41~~ 9.31 – KINGSLEY ROAD**

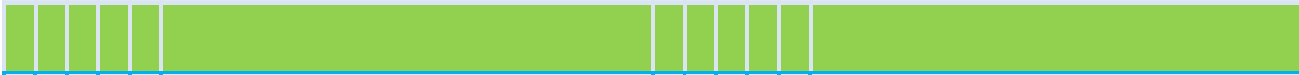
11.6.1.1. ~~11.8.1.1.~~ The section of Kingsley Road contained ~~with Section 9~~ within Sub-Section 9.31 spans from the junction with Ironbridge Lane to the junction with Yeo Court. The Order Limit allows for two options for the construction corridor in Kingsley Road. These options are as follows:

- The first option is for the Cables to intersect Kingsley Road in a north-south orientation, whilst moving from the fields to the immediate north of the carriageway, to those in the south. As this would mean the cable route only impacts a limited section of highway, this option would likely require shuttle working to be implemented for 1-2 days as the construction corridor passes across the link; and
- The second option is for the cable route to run along Kingsley Road in an east-west alignment for an up-to 150 m section between Yeo Court and Ironbridge Lane.

11.6.1.2. ~~11.8.1.2.~~ Regardless of which options is used for construction, it is anticipated that shuttle working facilitated by temporary traffic signals will enable two-way flow to be retained on this link throughout the duration of works.

11.6.1.3. Table ~~33-31~~ ~~11.8.1.3.~~ 11.8.1.3. provides the programme availability for Section ~~9.41~~ 9.31 assuming that the full 150m of Kingsley Road is required.

**Table ~~33-31~~ – Sub-Section ~~9.41-9.31~~ Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit
<del>9.41-9.31</del>	Kingsley Road between Ironbridge Lane and Yeo Court	150	Shuttle Working	2 Weeks
<b>Calendar Restrictions</b>				
J F M A M a e a p a n b r r y	Jun	J A S C N u u e c o l g p t v	Dec	
				
Notes on Calendar Restrictions: <del>No calendar restrictions identified</del> <a href="#">2 week restriction at Christmas / New Year</a>				
<b>Other Restrictions</b>				
<u>Sections</u>			<u>Total Availability per Calendar Year</u>	
N/A			<del>52</del> <a href="#">50</a> weeks	

11.6.1.4. ~~11.8.1.4.~~ No calendar restrictions have been identified for Section ~~9.41~~ 9.31 and no restrictions apply due to construction on nearby links.

11.6.1.5. Access is provided from Kingsley Road to two side-roads: Tideway Gardens and Amyas Court. As Tideway Gardens is not a cul-de-sac, access will be maintained at all times via the wider local road network. Amyas Court is a cul-de-sac and thus whilst the exact traffic management for each side-road can only be determined once the exact construction zone location is confirmed, at this stage it is proposed that this road be subject to temporary traffic signals or road plating.

## 11.7. ~~11.9.~~ **SUB-SECTION ~~9.42~~ 9.32 – YEO COURT**

11.7.1.1. ~~11.9.1.1.~~ ~~The entirety of Yeo Court is contained within Section 9.~~ It is anticipated that a full road closure will be required on this link for approximately one week. During this closure, vehicle access will not be possible for the duration of the works but pedestrian access will be retained at all times. ~~Table 34 shows the programme availability for completion of Sub-section 9.42.~~

11.7.1.2. Table 32 shows the programme availability for Sub-Section 9.32.

### **Table ~~34~~ 32 – Sub-Section ~~9.42~~ 9.32 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit
9.42	Yeo Court	40	Road Closure	<del>1 Week</del> <u>1 week</u>
<b>Calendar Restrictions</b>				
J F M A M a e a p a n b r r y	Jun	J A S C N u u e c o l g p t v	Dec	
Notes on Calendar Restrictions: <del>No calendar restrictions identified</del> <u>2 week restriction at Christmas / New Year</u>				
<b>Other Restrictions</b>				
<u>Sections</u>		<u>Total Availability per Calendar Year</u>		
N/A		<del>52</del> <u>50</u> weeks		



## 12. SECTION 10 ~~—~~ — EASTNEY (LANDFALL)

12.1.1.1. Section 10 contains the part of the Onshore Cable Corridor between the junction of Henderson Road / Bransbury Road and Landfall in the car park off Fort Cumberland Road near to Fraser Range. The highway links included in Section 10 are as follows:

- **Sub-section 10.1** — Henderson Road ~~—~~ between the junction with Bransbury Road and the junction with Fort Cumberland Road; and
- **Sub-section 10.2** — Fort Cumberland Road ~~—~~ between the junction with Henderson Road and the junction with Lumsden Road;

~~12.1.1.2. The FTMS proposals are shown on Drawing EN02022 TMS 9 included in Appendix 4.~~

~~12.2. SUB-SECTION 10.1 – HENDERSON ROAD~~

~~12.2.1.1. Table 35 provides the programme availability for Section 10.1 along Henderson Road~~

~~Table 35~~ Table 33 – Sub-Section 10.1 Programme Availability

Section	Description	Length (m)	Proposed TM	Duration Per Circuit							
10.1	Henderson Road <u>between Bransbury Road and Fort Cumberland Road</u>	300	Shuttle Working	<del>3 Weeks</del> <u>5 weeks</u>							
<b>Calendar Restrictions</b>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Notes on Calendar Restrictions: 1 week for Great South Run-, <u>2 week restriction at Christmas / New Year</u>											
<b>Other Restrictions</b>											
<u>Sections</u>						<u>Total Availability per Calendar Year</u>					
<u>Sub-Section 10.2</u> <del>-4-</del> <u>7 weeks</u>						<del>47</del> <u>42</u> weeks					

12.1.1.2. ~~12.2.1.2.~~As the Great South Run route uses Bransbury Road and Henderson Road it is proposed that construction work avoids the month of October, when this event is usually held.

12.1.1.3. Additionally, it is proposed that Sub-Section 10.1 is subject to the restriction that construction cannot take place simultaneously with Sub-Section 10.2. This is to mitigate against the cumulative impacts of works in the same area.

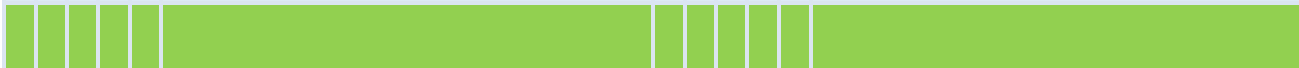
12.1.1.4. ~~12.2.1.3.~~Overall, Henderson Road is able to accommodate the construction corridor and retain two-way traffic through the use of single lane closures with shuttle working traffic signals. This would be for approximately 300 m or ~~3~~5 weeks per circuit.

12.1.1.5. Two junctions intersect the Henderson Road in this Sub-Section, the first of which is Halliday Crescent which is accessible by alternate routes on the wider network. While the exact traffic management for each side-road can only be determined once the exact construction zone location is confirmed, at this stage it is proposed that the second side-road, Henderson Park, which is not accessible from any alternate routes, is subject to temporary traffic signals or road plating.

## 12.2. ~~12.3.~~**SUB-SECTION 10.2 – FORT CUMBERLAND ROAD**

12.2.1.1. Table ~~36 provides 34~~~~12.3.1.1.~~ sets out the programme availability for Section 10.2 along Fort Cumberland Road.

**Table ~~36-34~~ – Sub-Section 10.2 Programme Availability**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit
10.2	Fort Cumberland Road <u>between Henderson Road and Lumsden Road</u>	<del>35</del> <del>03</del> <u>70</u>	Shuttle Working	<del>4 Weeks</del> <u>7 weeks</u>
<b>Calendar Restrictions</b>				
J a n	F e b	M a r	A p r	M a y
Jun		J u l		A u g
S e p		O c t	N o v	D e c
				
Notes on Calendar Restrictions: <u>2 week restriction at Christmas / New Year</u>				
<b>Other Restrictions</b>				
<u>Sections</u>			<u>Total Availability per Calendar Year</u>	
<u>Sub-Section 10.1</u> <del>4</del> <u>5</u> weeks			<del>48</del> <u>45</u> weeks	

12.2.1.2.

~~12.3.1.2.~~ Fort Cumberland Road is able to accommodate the construction corridor and retain two-way traffic through the use of single lane closures with shuttle working traffic signals. This would be for approximately ~~300~~ 370 m or ~~3~~ 7 weeks per circuit. Temporary traffic signals / road plating will be required for the following side roads:

- ~~Henderson Road;~~
- ~~Halliday Crescent;~~
- Ferry Road;
- ~~Gibraltar~~ Gibraltar Road; and
- Lumsden Road.

12.2.1.3. ~~12.3.1.3.~~ None of these links-side roads are cul-de-sacs, and as such the Onshore Cable Corridor in Section 10 does not form the sole access point for any of them. As such, access will be maintained at all times via alternate routes on the wider road network.

12.2.1.4. ~~12.3.1.4.~~ A temporary suspension of access to the car parks serving the flats on the southern side of the carriageway may be required as works progress.

12.2.1.5. ~~12.3.1.5.~~ Vehicular access to Eastney ~~lifeboat station~~ Lifeboat Station will be maintained throughout the duration of construction through the strategic phasing of construction zones in Henderson Road to ensure access to either Ferry Road or Fort Cumberland Road is retained at all times.

# 13. SUMMARY OF FTMS

13.1.1.1. This document has provided the Framework Traffic Management Strategy for construction of the Proposed Development, based upon the Order Limits, the construction methodology and national guidance regarding the design / implementation of traffic management measures.

13.1.1.2. The Final TMS to be implemented for each phase of the Proposed Development will be dependent upon the detailed design of the Onshore Cable Corridor and contractor preferences, noting the requirements contained within this document and the Contractor’s Technical Specification. All detailed proposals for the TMS will be discussed with HCC / PCC at the earliest opportunity to allow for review and amendment of proposals if required.

13.1.1.3. ~~13.1.1.2.~~A summary of the FTMS by section is provided below.

13.1.1.4. ~~13.1.1.3.~~Those marked with an asterisk \* represent options for the Onshore Cable Corridor which may not be required due to alternative routeing options being ~~available~~pursued.

**Table 37-35 – Section 1 – Lovedean (Converter Station Area)**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit
<u>1.1</u>	Converter Station Access	TBC	Shuttle Working	8-12 weeks
<b>Section</b>	<b>Description</b>	<b>Length (m)</b>	<b>Proposed TM</b>	<b>Duration Per Circuit</b>
<u>1.2</u>	Broadway Lane	6	Road Closure	1 Day

**Table 38 – Section 2 – Anmore**

**Table 39-36 – Section 2 – Anmore**

<u>Section</u>	<u>Description</u>	<u>Length (m)</u>	<u>Proposed TM</u>	<u>Duration Per Circuit</u>
<u>No on-carriageway impacts in this Section.</u>				

**Table 37 – Section 3 Denmead/ Kings Pond Meadow**

<b>Section</b>	<b>Description</b>	<b>Length (m)</b>	<b>Proposed TM</b>	<b>Duration Per Circuit</b>
3.1	Anmore Road	<del>1606</del>	Road Closure	1 Day to <del>2</del> <b>Weeks</b>
3.2	B2150 Hambledon Road to Soake Road	180	Shuttle working TS	<del>2-3</del> <b>weeks</b>

**Table 40-38 – Section 4 - B2150 Hambledon Road to Farlington Avenue**

<b>Section</b>	<b>Description</b>	<b>Length (m)</b>	<b>Proposed TM</b>	<b>Duration Per Circuit</b>
4.1	B2150 Hambledon Road between Soake Road and Milton Road	1300	Shuttle working TS	<del>8-13-11-22</del> <b>weeks</b>
4.2	B2150 Hambledon Road and A3 Maurepas Way between Milton Road and A3 London Road	1000	Lane Closure	<del>10-14</del> <b>weeks</b>

4.31	A3 London Road between Forest End Roundabout and south of the junction with Forest End	100	Shuttle Working	<del>1 week</del> <u>2 weeks</u>
4.32	A3 London Road between south of junction with Forest End and southern end of bus lanes (in proximity to Poppy Fields)	1000	Lane Closure	<del>10-17</del> weeks
4.33	A3 London Road between Poppy Fields and just south of Post Office Road	250	Shuttle Working	<del>3-5</del> weeks
4.34	A3 London Road between Post Office Road and Rocking Horse Nursery	90	Road Closure	<del>2-4</del> weekends
4.35	A3 London Road between Rocking Horse Nursery and Ladybridge roundabout	170	Shuttle Working	<del>2-3</del> weeks
4.41	A3 London Road between Ladybridge roundabout and start of bus lane	80	Shuttle Working	1 week
4.42	A3 London Road between start of bus lane and Lansdowne Avenue	850	Lane Closure	<del>9-8</del> weeks
4.43	A3 London Road between Lansdown Avenue and start of bus lane (south of The Brow)	250	Shuttle Working	3 Weeks
4.44	A3 London Road <del>start of</del> <u>between</u> bus lane (south of The Brow) and <u>B2177</u> Portsdown Hill Road	400	Lane Closure	4 Weeks
4.5	<u>B2177</u> Portsdown Hill Road between <del>A3 London Road</del> <u>car park access</u> and Farlington Avenue	<del>600</del> <u>160</u>	Shuttle Working	<del>6-2</del> Weeks



**Table 41-39 - Section 5 – Farlington**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit
5.1	Farlington Avenue between <a href="#">B2177</a> Portsdown Hill Road and Sea View Road	650	Shuttle Working	<del>7</del> <u>6</u> Weeks
5.2	Farlington Avenue between Sea View Road and Havant Road	350	Road Closure	<del>4</del> <u>6</u> Weeks
<del>*5.3*</del>	Eveleigh Road	150	Road Closure	<del>2</del> <u>3</u> Weeks
5.4	<a href="#">Crossing of</a> Havant Road	N/A	Road Closure	1-2 Weekends
5.5	Havant Road / <a href="#">the A2030 Havant Road</a> and <a href="#">the A2030 Eastern Road</a> between Farlington Avenue and <del>Fitzherbert Road</del> <a href="#">Zetland Field</a>	<del>800</del> <u>600</u>	Lane Closure	<del>8</del> <u>6</u> Weeks

**Table 42-40 - Section 6 –Sainsbury’s Car Park**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit
6	Fitzherbert Road	60	Lane Closure	1 Week

**Section 7 – Farlington Junction to Airport Service Road**

13.1.1.5. ~~13.1.1.4.~~ No traffic management is required in Section 7.

**Section 8 – A2030 Eastern Road (Adjacent to Great Salterns Golf Course) to Moorings Way**

**Table ~~43-41~~ - Section 8 – A2030 Eastern Road to Moorings Way**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit
8.1	A2030 Eastern Road between Airport Service Road and Tangier Road	1200	Lane Closures	<del>4-5 Weeks (24hr, 7-Day working)</del> <del>8 Weeks (10hr, 7-Day construction working)</del> <del>9 Weeks (10hr, 7-Day construction)</del>
<u>8.2 Option 1</u>	<u>Both Circuits within Milton Common</u>	<u>300</u>	Lane Closures <del>Closure</del>	<u>1 Week (24hr, 7-day working) – 2 Weeks (10hr, 7-day working)</u>
<u>8.2 Option 2</u>	<u>One Circuit within Milton Common</u>	1300		<del>1 Week (24-hr, 7-Day working and use of Milton Common)</del>
8.2 <u>Option 3*</u>	<u>Both Circuits within the A2030 Eastern Road between Tangier Road and Eastern Avenue</u>			<del>10 Weeks (Eastern Road only, 7-Day 8 Weeks (10hr, 7-day working) 6 11 weeks (10hr Mon-Fri and 5hr Sat working)</del>
8.3*	Eastern Avenue	220	Road Closure	<del>3-4 Weeks</del>

**Table 44-42 – Section 9 – Moorings Way to Bransbury Road**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit
9.11*	Moorings Way between Eastern Avenue and Godwit Road (passes <del>Mooring</del> <u>Moorings</u> Way Infant School)	250	Shuttle Working	3 Weeks
9.12*	Moorings Way between <del>Goodwit</del> <u>Godwit</u> Road and Moorings Way to Furze Lane Bus Link	500	Shuttle Working	5 Weeks
<del>*9.21*</del>	<del>Moorings Way to Furze Lane bus-link</del>	<del>370</del>	<del>Road Closure</del>	<del>3 Weeks</del>
<del>*9.22*</del>	<del>Furze Lane</del>	<del>150</del>	<del>Shuttle Working</del>	<del>2 Weeks</del>
<del>*9.31*</del> <u>9.21</u>	Locksway Road between access <del>red-road</del> to Milton Piece Allotments and <u>Thatched House Public House</u>	90	Shuttle Working	1 Week
<del>*9.32*</del> <u>9.22</u>	Longshore Way	150	Shuttle Working	2 Weeks
<del>9.41</del> <u>9.31</u>	Kingsley Road between Ironbridge Lane and Yeo Court	150	Shuttle Working	<del>1 Day to 2 Weeks</del> <u>2 weeks</u>
<del>9.42</del> <u>9.32</u>	Yeo Court	40	Road Closure	1 Week

**Table ~~45-43~~ - Section 10 – Eastney (Landfall)**

Section	Description	Length (m)	Proposed TM	Duration Per Circuit
10.1	Henderson Road	300	Shuttle Working	<del>3-5</del> Weeks
10.2	Fort Cumberland Road	<del>350</del> <u>370</u>	Shuttle Working	<del>4-7</del> Weeks

## REFERENCES

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- Department for Transport. (2009). Traffic Signs Manual Chapter 8: Traffic Safety Measures and Signs for Roadworks and Temporary Situations.
- Department for Transport. (2012). New Roads and Street Works Act 1991: Code of Practice of Co-ordination of Street Works and Works for Road Purposes and Related Matters (Fourth Edition).
- Department for Transport. (2013). Safety at Streetworks and Roadworks: A Code of Practice .
- HM Government. (1991). New Roads and Street Works Act.

**Appendix 1 – ~~FTMS~~**  
**~~Drawings~~ Onshore**  
**Cable Route**  
**Construction**  
**Impacts on Access**  
**to Properties and**  
**Car Parking and**

# Communication

# Strategy

# Appendix 2 – FTMS Drawings



# Appendix 3 – FTMS Diversion Drawings



Comparison Details	
Title	<b>pdfDocs compareDocs Comparison Results</b>
Date & Time	06/10/2020 18:30:26
Comparison Time	9.87 seconds
compareDocs version	v4.3.300.65

Sources	
Original Document	6.3.22.1A ES - Vol 3 - Framework Traffic Management Strategy Rev001.docm
Modified Document	6.3.22.1A ES - Vol 3 - Framework Traffic Management Strategy Rev002 (1).docm

Comparison Statistics	
Insertions	566
Deletions	259
Changes	643
Moves	66
Font Changes	0
Paragraph Style Changes	0
Character Style Changes	0
TOTAL CHANGES	1534

Word Rendering Set Markup Options	
Name	Insert Delete Move
<u>Insertions</u>	
<del>Deletions</del>	
<u>Moves / <del>Moves</del></u>	
Font Changes	
Paragraph Style Changes	
Character Style Changes	
Inserted cells	
Deleted cells	
Merged cells	
Changed lines	Mark left border.
Comments color	By Author.
Balloons	False

compareDocs Settings Used	Category	Option Selected
Open Comparison Report after Saving	General	Always
Report Type	Word	Formatting
Character Level	Word	False
Include Headers / Footers	Word	True
Include Footnotes / Endnotes	Word	True
Include List Numbers	Word	True
Include Tables	Word	True
Include Field Codes	Word	True
Include Moves	Word	True
Show Track Changes Toolbar	Word	True
Show Reviewing Pane	Word	True
Update Automatic Links at Open	Word	[Yes / No]
Summary Report	Word	End
Include Change Detail Report	Word	Separate
Document View	Word	Print
Remove Personal Information	Word	False
Flatten Field Codes	Word	False