	<b>A380 South Devon Link Road</b>	Doc.No: AR0001/s61/0033 Rev. No : 00 Date : 31/07/14
---	---------------------------------------	--

**s61 APPLICATION CONTROL OF POLLUTION ACT 1974**

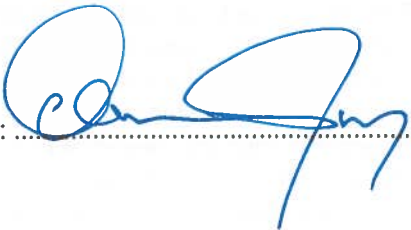
**APPLICATION FORM FOR APPROVAL**

<b>Reference No :</b> AR0001/s61/0033/Rev 00	<b>TITLE:</b> Out of hour works at Structure 34.
--	--

	YES	NO
Works within Normal Working hours only		X
Reason for application	Out of hour works at Structure 34, both sides of Torbay railway line.	

We hereby submit this s61 Application covering the construction activities / works listed below in accordance with Appendix 1/9 to the Specification and certify that the methods, plant and steps to minimise noise (including vibration) are best practicable means in accordance with section 72 of the *Control of Pollution Act 1974* and section 79(9) of the *Environmental Protection Act 1990* and are fully in accordance with the Contract.

Galliford Try Representative

Signed: 


Name: Owen Joy ..... Date: 31/7/2014 .....



## A380 South Devon Link Road

Doc.No: AR0001/s61/0033  
Rev. No : 00  
Date : 31/07/14

<b>1. Address or location of proposed works</b>	Structure 34, on both sides of Torbay railway line, near Torbay English Riviera roundabout.
<b>2. Name and address of main Contractor</b>	Galliford Try A380 SDLR Kingskerswell Bypass Site Office Old Newton Road Kingskerswell Newton Abbot TQ12 5LB
<b>Responsible Person. Telephone No.</b>	<a href="mailto:keiron.lonergan@gallifordtry.co.uk">keiron.lonergan@gallifordtry.co.uk</a> T: 07909214093
<b>3. Particulars of works to be carried out</b>	<p>Galliford Try have to construct an over bridge as part of the reconfiguration of the Hamlin Way Roundabout. This over bridge is referred to as Structure 34 (S34).</p> <p>Structure 34 requires beam installation works on the north and south side within 5 m of Torbay railway line (see Figure 1). The beam installation involves preparatory scaffolding, lifting steel girder beams and concrete omnia-planks into place by mobile crane (during night possessions). The preparatory scaffolding is scheduled to be during one railway night possession. There is not yet a date confirmed for this work however the Environmental Clerk of Works will notify Torbay Council Environmental Health Officer on confirmed date of works as soon as possible.</p> <p>The beam lift works are scheduled to start Tuesday 19<sup>th</sup> August through to Saturday 23<sup>rd</sup> August. The omnia-plank lift works are scheduled to start the following week (Monday 25<sup>th</sup> August to Saturday 30<sup>th</sup> August) The weeknight works will be undertaken on five and a half hour shifts, between 23:30-06:00hrs. The Saturday night possession will be undertaken on 11 hour shifts, between 22:15-09:00hrs. The works will run over two weeks with a third week of railway possessions required acting as contingency (Monday 1<sup>st</sup> September to Saturday 6<sup>th</sup> September) in the event of unforeseen issues. These works will be conducted during out of hour railway possessions.</p> <p>The justification for out of hour working is to ensure safety during the operations; Network Rail only permits interaction within 5m of the track when trains are not operating. By doing this work within overnight railway possessions, it minimises travel disruption to road and rail. By doing the beam deliveries and beam lift from Hamlin Way over night it will minimise traffic along Hamlin Way and Torquay Road.</p>
<b>4. Methods to be used in each stage of development</b>	Refer to Appendix A.

	<b>A380 South Devon Link Road</b>	Doc.No: AR0001/s61/0033 Rev. No : 00 Date : 31/07/14
---	---------------------------------------	--

<b>5. Duration and hours of works</b>	Refer to Appendix A
<b>6. Number, type and make of plant and machinery</b>	Refer to Appendix A.
<b>7. Proposed steps to minimise noise and vibration</b>	Refer to Appendix B.
<b>8. Predicted Noise Levels</b>	Refer to Appendix C.
<b>9. Predicted Vibration Levels</b>	The equipment to be used in these activities are not considered to generate appreciable levels of vibration and therefore no assessment has been undertaken.
<b>10. Site Plans</b>	Figure 1 – Structure 34 Location Plan and Haul Route
<b>11. Consultees</b>	Devon County Council Torbay Council
<b>12. Other Information</b>	Galliford Try Public Liaison Team to inform local stakeholders, emergency services and Community Liaison Group members. It will also be published on the South Devon Link Road website prior to works.
<b>13. List of Plans and documents attached</b>	Figure 1 – Structure 34 Location Plan and Haul Route

## **APPENDIX A**

### **- Method of Works**

#### **Beam/omnia-plank lift installation works within 5m of Torbay railway line**

##### ***Overview of works***

As part of the A380 project, there is a Torbay roundabout overbridge to be constructed over Tor line close to Torbay English Riviera roundabout. Following the pier installation; lifting the beams in is required in order to construct the bridge. Due to the close proximity of works to the railway, Network Rail only allows construction when trains are not operating. This requires the works to be conducted during over night railway possessions.

##### ***Outline working method***

The out of hour work activities over one night possession are as follows:

- Preparatory scaffolding involving hand tools e.g scaffold spanner (one night possession in advance of beam lift);
- Traffic management set up;
- Deliver steel beams/omnia-planks to Hamlin Way (eastbound carriage);
- Crane to lift beams/omnia-planks off Hamlin Way on to north & south piers;
- De-rig crane and demobilise.

Figure 1 shows site lay out for Structure 34 works with closest to local resident properties. The works at Structure 34 works location is approximately 200m to closest resident at Edginswell Lane.

There is natural screening from railway embankment, Torquay Road and Hamlin Way road to the East, West and South where the closest properties are situated.



**A380 South Devon  
Link Road**

Doc.No: AR0001/s61/0033  
Rev. No : 00  
Date : 31/07/14

**Proposed Plant at Structure 34 works**

Equipment	Number	% on-time	Typical Sound pressure level at 10m [dB(A)]	Noise information source	Comment
<b>Scaffolding Works</b>					
Scaffolding – hand tools	1	100	73	Average of BS 5228:1997 Table C.7:1-3	
Tower Lights	3	100	63	Average of BS 5228-1:2009 Table C.4:76-87	Night time only
<b>Traffic Management Installation</b>					
Traffic Management vehicle	1	20	62	Measured	
<b>Beam/Omnia-plank Installation</b>					
150T crane	1	75	71	BS 5228-1:2009 Table C.4:41	
Mobile Elevated Working Platform (MEWP)	2	50	79	Measured	
Welding set	1	25	73	BS 5228-1:2009 Table C.3:31	
Hydraulic bolt tightening kit	1	20	80	Measured	
3kV generator	4	50	65	BS 5228-1:2009 Table C.4:83	
Haulage Lorry	2	50	79	BS 5228-1:2009 Table C.8:20	
Tower Lights	8	100	63	Average of BS 5228-1:2009 Table C.4:76-87	Night time only

## **APPENDIX B**

### **- Methods to reduce noise**

#### **Methods to minimise nuisance**

1. Prior to works commencing any preparatory engineering works will be undertaken in normal working hours.
2. Prior to the out of hour works, mobilisation and demobilisation of materials and plant will occur during normal working hours, minimising activity in sensitive periods i.e. only those activities that have to occur out of hours will be undertaken.
3. All tower lights will be super-silenced and inspected to ensure they are operating appropriately.
4. All plant will be promptly switched off as soon as the works have been completed.
5. Any idling plant will be turned off when not in use.
6. All operatives will be briefed on the measures within this plan and the sensitivity of surrounding properties to noise emissions.

All affected residents will be notified of the nature and need for the works.

#### **Noise/Vibration Monitoring Programme**

Galliford Try will carry out monitoring at regular intervals during these works and on start up of any equipment or new work areas. Attended noise monitoring will be undertaken as close as possible to the receptors identified in Appendix C to assess compliance periodically on each day. 15 minute LAeq readings will be taken at the predefined monitoring receptors, weather and dominant noise source recorded.

To note, the receptor locations on Figure 1 are noise prediction stations. Noise monitoring will be undertaken at compliance points within the site which are as close to the properties as practicably possible.

In addition the works will be assessed by the monitorer to ensure they are being undertaken in accordance with the s61 Application.

## APPENDIX C

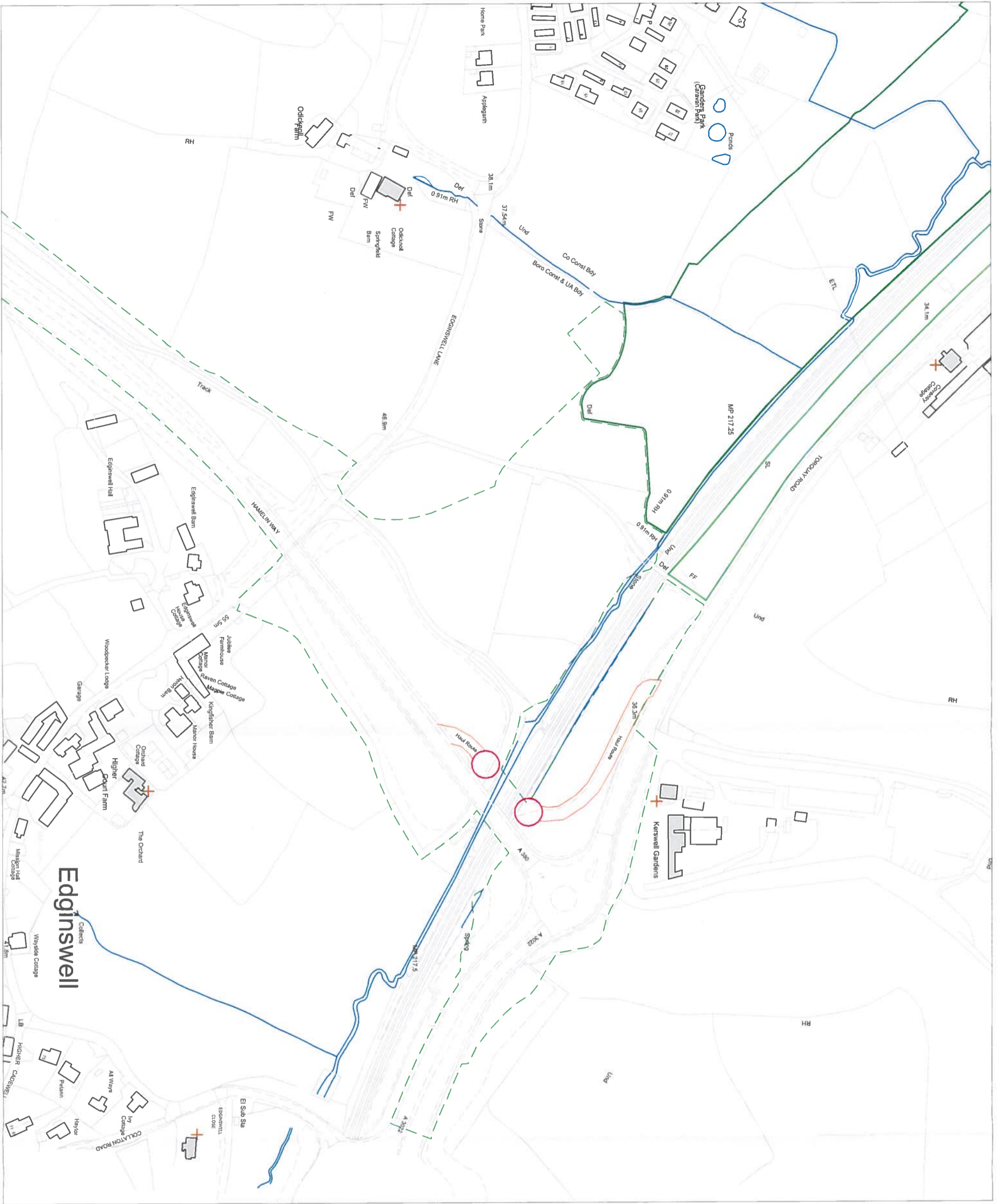
### - Predicted noise thresholds at key receptors

Receptor Location	Floor	Façade	Construction Façade Noise Level dB L <sub>Aeq,1hr</sub>		
			Scaffold Works	Traffic Management	Install Beam/Omnia-plank
Coventry Cottage	Ground	South East	42.9	23.5	51.8
	First		43.9	24.5	52.8
Kerswell Gardens	Ground	South	58.5	39.1	67.4
Odicknoll Cottage	Ground	North East	42.7	23.3	51.6
	First		43.8	24.4	52.7
The Orchard	Ground	North East	48.2	28.8	57.1
	First		49.1	29.7	58.0
Edginswell Close	Ground	North	45.6	26.2	54.5
	First		46.5	27.1	55.4

N.B 5dB screening to Kerswell Gardens; 10dB screening to The Orchard.

Predictions have been undertaken using SiteNoise module of NoiseMap Enterprise version 2.7.1. This software follows the construction noise calculation procedure in British Standard 5228 Code of Practice for Noise and Vibration Control on Construction and Open Sites: 2009. Allowance has been made for natural screening between the works and local receptors. The model takes into account land attenuation and reflection from properties.

A cumulative number of exceedances will be maintained by the site team.



**Key**

- Area of works
- + Noise Prediction Station
- Noise Prediction Properties
- Haul Route

Rev.	Details	Drawn	Date
		Chkd.	

**Project**  
 123213  
 A380 Bypass  
 Newton Abbot

**Title**  
 Out of Hour Beam Installation  
 Structure 34



**AAE Environmental Ltd**  
 Units 4 to 8  
 Chiswell Court  
 Shippon Ashgden  
 Oxon OX13 6HX  
 T: (01235) 536042  
 F: (01235) 523449  
 info@aae-hip.com  
 www.aae-hip.com

Scale	Date	Drawn	Chkd.	Dwg. No.	Rev.
1:2500 @ A3	July 14	RC	ML	Figure 1	