

**National Asset Delivery  
Technical Surveys and Testing**

**A5 Safety Improvement Schemes  
Surveys – Traffic and NMU**

**Scope**



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## 1 PURPOSE OF THE *SERVICES*

### 1.1 Project objectives

- 1.1.1 The principle objective of this project is to carry out traffic surveys including turning count and speed surveys, to collate data and, subsequently provide associate reports.
- 1.1.2 The specification that applies to the *services* is included in Section 6

### 1.2 Scope of *services*

- 1.2.1 The *services* to be provided under this contract are:

Category	Survey Description
Traffic Survey	Traffic surveys including; Classified turning counts Speed Surveys

### 1.3 Deliverables

- 1.3.1 The *Consultant* is required to produce the following deliverables:
- (1) An appropriate individual to attend pre-commencement site inspection & client meeting.
  - (2) Propose temporary traffic management required. Once agreed *Employer* will provide the temporary traffic management.
  - (3) Plant, materials & labour to carry out traffic surveys on site for the timings as stated in section 3 and specification as stated in section 6.
  - (4) Reports as detailed in section 6.

## 2 EXISTING INFORMATION

2.1.1 The Drawings listed below apply to this contract. Refer to the site information for details of existing site conditions including ground conditions, limitation on access, position of existing structures etc.

HE564883-HE-GEN-A5_ML-DE-CH-0000 01	Drg	Location Plan 2 (All locations)
HE564883-HE-VGN-A5_ML-DE-Z-0000 01	Drg	Newton Lane Technical Surveys
HE564883-HE-VGN-A5_ML-DE-Z-0000 02	Drg	Daventry Road Crossroads Technical Surveys
HE564883-HE-VGN-A5_ML-DE-Z-0000_03	Drg	Pattishall Technical Surveys
HE564883-HE-VGN-A5_ML-DE-Z-0000_04	Drg	Potterspury Technical Surveys
HE564883-HE-VUT-A5_ML-DE-CH-2700 01	Drg	Newton Lane Statutory Undertakers
HE564883-HE-VUT-A5_ML-DE-CH-2700 02	Drg	Daventry Road Crossroads Statutory Undertakers
HE564883-HE-VUT-A5_ML-DE-CH-2700 03	Drg	Pattishall Statutory Undertakers
HE564883-HE-VUT-A5_ML-DE-CH-2700 04	Drg	Potterspury Statutory Undertakers
HE564883-HE-VUT-A5_ML-DE-CH-2700 05	Drg	Stats Key and Notes

NOTE: Full C2 returns are attached as Appendix 1 to this document.

### **3 CONSTRAINTS ON HOW THE CONSULTANT PROVIDES THE SERVICES**

#### **3.1 General**

- 3.1.1 The *Consultant* Provides the Services in such manner as to minimise the risk of damage or disturbance to or destruction of third party property.
- 3.1.2 The *Consultant* complies with the constraints and meets with the requirements outlined in Appendix 1.
- 3.1.3 The *Consultant* submits information detailing how the *Consultant* will provide the Services to the *Client* prior to the *services* commencing. This information will include any lifting plans, risk assessments, method statements, the *Consultant's* staff training information and any other relevant Health and Safety requirements.

#### **3.2 Working hours & site specific constraints**

- 3.2.1 There are no set working times for the contractor unless Traffic Management is required then the working hours for site works shall be determined but are expected to be overnight 20:00-06:00.
- 3.2.2 There are no firm dates to undertake the survey works but they are expected be between the period 24<sup>th</sup> February to the 21<sup>st</sup> April 2020.
- 3.2.3 The works on site (survey camera) is expected to take 2 weeks and the contractor will be given 3 weeks notice.

#### **3.3 Health, Safety and Environment & Risk Management**

##### Health and Safety requirements

- 3.3.1 In Providing the Services the *Consultant* meets the requirements of Annex 2 of the supplementary constraints relation to health and safety duties.
- 3.3.2 The *Consultant* shall comply with the requirements of Highways England's safety passport scheme and ensure that all of his employees, and any of his subcontractor's, are registered in accordance with the implementation of the scheme. Details on the scheme can be found here: <http://www.highwayssafetyhub.com/safety-passport.html>
- 3.3.3 For details of the CDM duty holders, refer to the pre-construction information which can be found in document; Pre-Construction Information – A5 Safety Schemes Surveys 2.
- 3.3.4 Before commencing the construction phase of the *services*, the *Consultant* confirms to the *Client* that adequate welfare facilities are in place. Where the facilities detailed in section 5 are not deemed adequate, the *Consultant*

provides all necessary facilities to Provide the Services and to comply with the minimum requirements set out in HSE guidance document L153.

#### Environmental requirements

- 3.3.5 In Providing the Services the *Consultant* meets the requirements of Annex 2 of the supplementary constraints in relation to environmental duties.

#### Risk Management

- 3.3.6 The *Consultant* identifies, manages and mitigates risks in accordance with the principles of ISO31000.
- 3.3.7 The *Consultant* submits a risk register, which captures all risks associated with the delivery of the *services* including those identified by the *Client*, with his tender and maintains it for the contract period.

## 4 REQUIREMENTS FOR THE PROGRAMME

- 4.1.1 The *Consultant* submits programme to the *Client* with his tender.
- 4.1.2 The *Consultant* Provides the Services taking into account the following programme constraints:
- (1) the *starting date will be 24/02/2020* and *completion date* (all results received by Highways England) *will be 04/05/2020*.
  - (2) The services and other things provided by *Employer* (see Section 5).
  - (3) The Consultant is to allow for a pre start meeting on TBC, to develop the programme.
  - (4) Welfare facilities are to be in place prior to works commencing on site.
  - (5) Other Contractors will be working on this site, the principal contractor is to liaise with all parties to develop a programme for the works, it is anticipated that different surveys can be carried out concurrently to minimise the length of the programme.
  - (6) There are multiple site locations on the A5 as part of this package of survey works, the Programme must consider this.
  - (7) The programme must consider that traffic surveys should be undertaken in a period where impact caused by events such as public holidays, road closures etc. is minimised. See Section 6 for further mitigation allowances.
- 4.1.3 The programme should be in the form of an activity and time related bar chart, produced as a result of a critical path analysis.
- 4.1.4 The programme should preferably be provided in either a PDF or MS Excel format and cover the full contract period including post site activities. Activities should be clearly defined and named and the programme should detail the following:
- (i) dates and times associated with the project, including the *starting date*, *completion date* & *Consultant's* planned completion, and any other dates or times that will specifically impact the delivery of the project
  - (ii) activities associated with delivering the project

- 4.1.5 The *Consultant* should provide details of the proposed resources (plant, labour, subcontractors etc.) expected to deliver each activity. This information can either be shown on the programme itself or provided in an associated resource statement included in the Proposal for Providing the Services.
- 4.1.6 The *Consultant* updates the programme every week. The *Consultant* submits an updated programme to the *Client* upon request.

## **5 SERVICES AND OTHER THINGS PROVIDED BY THE *CLIENT***

5.1.1 The following temporary traffic management will be provided by the *Client* to allow the *Consultant* to Provide the Works:

- (1) No temporary traffic management has been allowed for the installation of survey equipment, however, should the Contractor require temporary traffic management then;
- (2) *Contractor* to liaise with *Employer* regarding the Temporary traffic management they require to carry out the works.
- (3) *Contractor is to liaise with the Employer regarding access to site. Contractor is to communicate any access issues and how these may affect the work.*
- (4) Road space on Highways England network is to be managed by the principal contractor.

5.1.2 The other things that will be provided by the *Client* are as follows:

- (1) Welfare facilities are to be provided by the principal contractor, needs are to be identified by the contractor and communicated with the principal contractor if required.

## **6 SPECIFICATION FOR THE SERVICES**

### **6.1.1 Site Information**

6.1.2 The site information for all sites are detailed in HE564883 National TST Model Site Information vr2.1 July 2018 – A5 Safety Improvement Schemes Surveys 2.

### **6.2.1 Project Objectives**

6.2.2 The following traffic surveys to collate data at the A5 Newton Lane junction, the A5 Daventry Road cross-roads junction, and sites located in Pattishall and Potterspury;

6.2.3 Classified turning counts at both junctions (Newton Lane, and Daventry Road) over 24hr periods for 14 consecutive days. To establish the current junction usage including non-motorised vehicle use.

6.2.4 Spot speed surveys over 24hr periods for 14 consecutive days, in 2 directions to be undertaken at all locations to determine the 85<sup>th</sup> percentile dry weather speeds of traffic in free flow condition.

6.2.5 Journey speed surveys to determine the 85<sup>th</sup> percentile wet weather speeds of traffic in free flow condition and Newton Lane junction and Daventry Road Crossroads junction.

### **6.3.1 General**

6.3.2 Submission of all data collected in digital format.

6.3.3 For the speed surveys, refer to TA22/81 of the DMRB for guidance.

6.3.4 The Newton Lane junction location has a bridleway which crosses the junction, this is to be included in the turning count.

6.3.5 The turning account is to be classified by, movement, and user, and aggregated into 15 minutes.

6.3.6 The speed surveys are also to be classified by vehicle type and time of day.

6.3.7 For the speed surveys; speeds should be captured on days where traffic is a typical representation of normal traffic, e.g. when it is not a public holiday or a weekend, and when no temporary traffic management or diversion routes are impacting on the traffic flows. However; the length of time given to collect data (14 days) is to provide enough data should unforeseen occurrences make some of the data unusable.

6.3.8 Radar sensor or CCTV systems are the preferred method to obtain the data.