



**National Asset Delivery
Technical Surveys and Testing**

617422

**Scope for Traffic Signs Retro-
reflectivity**

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LIST OF ANNEXES

Appendix 1 Supplementary Constraints

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1 PURPOSE OF THE SERVICES

1.1 Project objectives

1.1.1 The principle objective of this project is to undertake a technical survey on Traffic Signs Retro-reflectivity to determine asset condition across the full National Highways Area 14 network. The survey is to be in accordance with CS 125 and subsequent reporting in accordance with the requirements detailed in the deliverables and specification sections to support the development of renewal schemes.

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:

General scope of the works to be provided	
Category	Survey Description
Asset Condition	Traffic sign retro reflectivity survey in accordance with CS 125.

1.3 Deliverables

1.3.1 The *Consultant* is required to produce the following deliverables:

- 1 Provide high resolution imagery/video of the assets for for inventory and condition assessment to include geometry (height/width of sign face) mounting height, colour.
- 2 Provide electronic record of the measure retro-reflectivity levels of Traffic Signs in accordance with CS 125, and subject to a pass-fail assessment.
- 3 Provide electronic documentation of the survey data and records collected and analysed and geo-positioned with ESRI shape file and provide GIS viewer system with functionality to output records in an agreed format
- 4 Provide electronic documentation of the survey data and records collected and analysed and geo-positioned within a ESRI shape file and provide a GIS viewer system with functionality to output records in an agreed format.

2 EXISTING INFORMATION

- National Highways AD14 network shape files
- National Highways AD14 network chart plans (36-page booklet showing network route and chart sections on an OS Master map background).
- The Area 14 network covers the routes as tabulated with recorded length in lane 1324.268 km lane kilometres as outlined in the Site 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.

Drawing Number	Title	Revision / Date
	Area 14 Chart Plans – Sheet 1 to 36	

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 The *Consultant's* working hours for site works shall be determined by the Contractor, in line with their policies and H&S governance for safe working, and HSE guidance.
- 3.2.2 The site is the National Highways strategic road network for AD Operational Area 14.
- 3.2.3 The driven survey is to be conducted at traffic speed without need for traffic management. The survey is to be conducted during night-time hours.
- 3.2.4 The survey programme has been developed in conjunction with the Client's construction delivery programme as to avoid loss of coverage due to planned / cyclic works. The order of survey, or dates subject to change should the need arise due to delivery of the forward programme or incident/maintenance response

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 When implemented, the *Consultant* shall comply with the requirements of National Highways' 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.
- 3.3.3 Not used

- 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.

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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:
- (i) The starting date to be Monday 14th August 2023
 - (ii) The services and other things provided by *Client* (see Section 5)
 - (iii) The site survey data collection is expected to be completed within 2 weeks from start date.
 - (iv) The processed and digitised data and management system is to be provided within 60 days of the completion of site activity.
 - (v) The survey contractor is expected to email the Network Occupancy Roads space team the start and end location of the survey for each Night, by midday of the preceding day. An email should be sent to Area14Roadspace@highwaysengland.co.uk. Furthermore an email must be sent to the National Highways Survey co-ordinator laura.broad@nationalhighways.co.uk with an update on what they have achieved and any constraints or issue they may have encountered during each working shift.
 - (vi) The survey contractor shall make note of the Regional Operational Control Centre telephone number for the reporting of defects/incidents whilst operating on the network.
- 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.

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5 SERVICES AND OTHER THINGS PROVIDED BY THE CLIENT

5.1.1 The Client does not provide anything.

5.1.2: Not used

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6 SPECIFICATION FOR THE SERVICES

6.1.1 The *Consultant* shall Provide the Services in accordance with the DMRB document CS 125.

(1) Vehicle mounted survey at traffic speed to determine the retro-reflectivity of Traffic Signs throughout the mainline carriageway and junction merges and diverges to satisfy the requirements of CS 125.

(2) All survey devices and techniques (including vehicle mounted devices and handheld spectrometer devices) shall be approved by the Overseeing Organisation and calibrated and maintained in line with the manufacturer's recommendations as described in BS EN 1436 [Ref 8.N].

(3) Single carriageways are to be surveyed in both directions to ensure all traffic signs are captured

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