

National Asset Delivery Technical Surveys and Testing

Works Information for

570131 M5 J9 SB On-Slip Drainage survey

CONTENTS AMENDMENT SHEET

Amend. No.	Revision No.	Amendments	Initials	Date
0	0	Original version issued with tender	ET	12/11/20

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LIST OF ANNEXES

Appendix 1 Supplementary Constraints

1 DESCRIPTION OF THE WORKS

1.1 Project objectives

- 1.1.1 The principle objective of this project is to provide drainage CCTV survey of the existing drainage system within the M5 J9 Southbound on-slip, area shown on drawing listed in Section 2.
- 1.1.2 The specification that applies to the *works* is included in Section 6

1.2 Scope of works

- 1.2.1 The *works* to be provided under this contract are:
- a) The survey shall be undertaken on the M5 J9 Southbound on-slip within the red line boundary area shown on the drawing listed in Section 2. A pipework and chambers defect survey by CCTV in accordance with the DMRB; CS551.

1.3 Deliverables

- 1.3.1 The *Contractor* is required to produce the following deliverables:

The survey report shall consist of the following digital data, split into drainage catchments suitable for upload to DDMS:

- a) Coded survey data in the digital format(s) defined by the Overseeing Organisations in the NAAs to CD 535 [Ref 1.N], as detailed in the survey data requirements;
- b) Video recordings referenced in the coded survey data.
- c) Photographs referenced in the coded survey data.
- d) A report in PDF format in accordance with clause 7.73 of CS 551.
- e) CAD drawings in accordance with clause 7.74 of CS 551.

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.

Drawing Number	Title	Revision / Date
HE570131-0000_01	Drainage Survey	C0
HE570131-0100_01	Existing Services	C0

3 CONSTRAINTS ON HOW THE CONTRACTOR PROVIDES THE WORKS

3.1 General

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

3.2 Working hours & site specific constraints

- 3.2.1 For the purposes of pricing the working hours shall be between the hours of 2000 and 0600, Monday to Friday. The working hours shall be finalised during mobilisation and will vary subject to traffic flows and weather conditions.
- 3.2.2 The stated hours include the time for the traffic management to be set out and picked up.
- 3.2.3 All plant and equipment shall be removed from site at the end of each shift.

3.3 Health, Safety and Environment & Risk Management

Health and Safety requirements

- 3.3.1 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to health and safety duties.
- 3.3.2 The *Contractor* 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.
- 3.3.3 For details of the CDM duty holders, refer to the pre-construction information which is supplied with this document.
- 3.3.4 Before commencing the construction phase of the *works*, the *Contractor* confirms to the *Employer* that adequate welfare facilities are in place. Where the facilities detailed in section 5 are not deemed adequate, the *Contractor* provides all necessary facilities to Provide the Works and to comply with the minimum requirements set out in HSE guidance document L153.

Environmental requirements

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

Risk Management

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

4 REQUIREMENTS FOR THE PROGRAMME

- 4.1.1 The *Contractor* submits programme to the *Employer* with his tender.
- 4.1.2 The *Contractor* Provides the Works taking into account the following programme constraints:
- (i) the *starting date* and *completion date* and any post site works, reporting and review period
 - (ii) The services and other things provided by *Employer* (see Section 5)
- 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* & *Contractor'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 *Contractor* updates the programme every week. The *Contractor* submits an updated programme to the *Employer* upon request.

5 SERVICES AND OTHER THINGS PROVIDED BY THE EMPLOYER

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

Location	Indicative Traffic Management
M5 J9 Southbound on-slip	Night-time full closure of on-slip Night-time Lane 1 and hard shoulder mainline closure on M5 mainline. Night time roundabout circulatory Lane 1/Lane 2 closure

5.1.2 Not used

6 SPECIFICATION FOR THE WORKS

6.1 Specification & Design Standards

- 6.1.1 The Contractor shall undertake the works in accordance with:
- DMRB; CS 551; Drainage surveys
 - DMRB; CD 535; Drainage asset data and risk management
 - DMRB; GG 184; Specification for the use of Computer Aided Design
- 6.1.2 The drainage survey specification shall be the “pipework and chambers defect survey by CCTV” contained in Section 7 of CS 551 in the DMRB

6.2 Survey Requirements

6.2.1 General

- a) Survey Type: pipework and chambers defect survey by CCTV;
- b) State the requirement for survey data round-tripping:
some drainage inventory information in the catchment(s) to be surveyed is available on the DDMS and round-tripping of this data is required
- c) State the requirement for off-highway working not accessible by conventional two-wheel drive vehicles:
off-road vehicles are not required

6.2.2 Pipework and chambers defect survey by CCTV

- a) State the requirement for pan and tilt CCTV camera:
pan and tilt CCTV camera required
- b) State the requirement for forced ventilation of pipework and/or culverts:
forced ventilation will not be required
- c) State the requirement for pre-cleansing of the drainage system:
pre-cleansing is required
- d) State the responsibility for clearing blockages:
survey the pipework run from the other direction, then proceed to remove the blockage by cleansing
- e) State the requirement for root cutting:
root cutting is required

6.2.3 Reporting requirements

- a) State the requirement for a summary report in PDF format in addition to digital data:
summary report in PDF format is required
- b) State the requirement for CAD drawings in DXF and PDF formats in addition to digital data:

CAD drawings in DXF and PDF formats are required

- c) State the requirement for the survey data to be packaged with a proprietary software viewer, in addition to the standard data deliverables:

survey data packaged with a proprietary viewer is required in addition to the standard data deliverables

- d) State the requirement for items of the survey report to be provided to the Employer's representative during the survey:

interim survey data is not required during the course of the survey

- e) State the means of transferring the data deliverable:

by internet transfer