

**National Asset Delivery  
Technical Surveys and Testing**

**Works Information for**

**605748 A11 Junction 9a to A14**

**Filter Media Drainage Survey**

**CONTENTS AMENDMENT SHEET**

<b>Amend. No.</b>	<b>Revision No.</b>	<b>Amendments</b>	<b>Initials</b>	<b>Date</b>
0	0	Original version issued with tender		

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**LIST OF ANNEXES**

**Appendix 1** **Supplementary Constraints**

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## 1 DESCRIPTION OF THE WORKS

### 1.1 Project objectives

1.1.1 The principal objective of this project is to carry out a filter drain condition survey within the existing drainage located on the A11, between Junction 9a and its junction with the A14. The survey should be a Filter Drain Condition Survey by GPR, as defined in CS551 and include the north and southbound verge and central reserve. The scheme extents are shown on Drawing Number HE605748-GEN-A11J9a\_A14-DE-CH-0000\_1.

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:

1.2.2 Survey of the existing filter media by GPR, to be carried out of the existing drainage system within the extents shown on Drawing Number HE605748-GEN-A11J9a\_A14-DE-CH-0000\_01.

### 1.3 Deliverables

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

- (1) Drainage Survey of the existing drainage system within the extents provided in section 1.1.1,
- (2) The Drainage Survey deliverables (data submission and report) are to be in accordance with Section 5.2 of CS 551 Drainage Surveys,
- (3) Drainage Survey summary report in PDF and digital data format,
- (4) Drainage Survey drawings in DXF and PDF format.

## 2 EXISTING INFORMATION

- 2.1.1 The inventory details of the existing drainage system are shown on HADDMS.
- 2.1.2 The Employer can provide details of clearances to structures from either information held on IMIS or AVIS, however if required the Contractor will be responsible for taking/confirming site measurements.
- 2.1.3 The Drawing listed below applies 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
HE605748-GEN-A11J9a_A14-DE-CH0000_01	Location Plan	C1/ Jan 2020

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### **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 The *Contractor's* working hours for site works shall be night-time, between 20:00 – 06:00 (subject to traffic counts).
- 3.2.2 *Contractor* to remain within the Highways Boundaries for the duration of the works, except where agreed with both the *Employer* and the land owner in advance.
- 3.2.3 Access to the site will be from Highways England network. It is assumed that the works will be completed under mobile traffic management, however the *Contractor* must state in this submission if alternative traffic management is required.

#### **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. 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 here in 605748\_PCI A11 Junction 9a to A14 Drainage Survey & Hazard Identification Drainage Survey.
- 3.3.4 Before commencing the Surveys 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.

- 3.3.5 Provide details on how First Aid arrangements will be provided.
- 3.3.6 Provide certificates for Third Party Indemnity and Public Liability as held by the Contractor.
- 3.3.7 The Principal Contractor shall be the Traffic Management provider when Traffic Management is used.

#### Environmental requirements

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

#### Risk Management

- 3.3.9 The *Contractor* identifies, manages and mitigates risks in accordance with the principles of ISO31000.
- 3.3.10 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.
- 3.3.11 The Contractor should be aware of any weather warnings for the area and liaise with Principal Contractor and Traffic Management Contractor as soon as they are aware.

#### 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);
  - (iii) Works are to be completed in financial year 2020-2021, it is anticipated that the survey will be implemented between 22<sup>nd</sup> February 2021 – 26<sup>th</sup> February 2021. The programme should be in the form of an activity and time related bar chart.
- 4.1.3 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;
  - (iii) for each activity, the proposed resources (plant & labour) expected to deliver the activity should be shown on the programme;
  - (iv) review periods for any reporting requirements;
  - (v) key dates for the Employer to provide 'services and other things';
  - (vi) key dates for co-ordination with Others;
  - (vii) linear meters of drainage anticipated within shift.
- 4.1.4 The *Contractor* updates the programme every 2 weeks. The *Contractor* submits an updated programme to the *Employer* upon request.
- 4.1.5 The Contractor must liaise with the Traffic Management Contractor at the end of every shift to confirm requirements for the following shift.
- 4.1.6 Any site issues/delays must be reported, initially, to the site supervisor and highlighted within the daily site report. Following each night shift, the report should be sent to the Employer by midday the next day.

## **5 Services and other things provided by the *Employer***

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

- (1) Work is to be undertaken utilising mobile closures; it is anticipated that the Contractor is to supply a programme of works with surveys undertaken between 22<sup>nd</sup> February 2021 – 26<sup>th</sup> February 2021.
- (2) Welfare facilities shall be supplied by the Contractor.

5.1.2 Not used.

5.1.3 The Employer will appoint a Principal Contractor for the Works.

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## 6 SPECIFICATION FOR THE WORKS

- 6.1.1 The Contractor shall undertake the works within the extents shown on the location plan, known drainage assets within the area are shown in HA DDMS, but the Contractor should expect to find additional assets.
- 6.1.2 The *Contractor* must provide the *works* under a quality management system which is certified to ISO 9001 & BS 11000 and environmental management system which works to ISO14001.
- 6.1.3 The Drainage Survey is to be carried out in accordance with the Design Manual for Roads and Bridges, Volume 4 Geotechnics and Drainage, Part 10, CS551 Drainage Surveys.
- 6.1.4 The Drainage Survey recording of inventory and condition of drainage assets is to be carried out in accordance with the Design Manual for Roads and Bridges, Volume 4 Geotechnics and Drainage, Part 4, CD535 Drainage Asset Data and Risk Management.
- 6.1.5 **Schedule of Requirements, Appendix A1 General Requirements;**
- The Drainage Survey is to be carried out on the A11, between Junction 9a and its junction with the A14.
  - Drainage survey to be carried out of the existing drainage system within the scheme extents as shown on Drawing Number HE605748-GEN-A11J9a\_A14-DE-CH-0000\_01
  - The works will have the following constraints:
    - a) Access will be from HE networks and confirmed upon completion of Traffic Management layout;
    - b) Drainage survey works are to be carried out weekdays from 20:00 to 06:00.
    - c) Highways England look for efficiencies and aim to reduce disturbance to the travelling public by combining activities within Traffic Management closures. No additional works have currently been identified but the Principal Contactor will notify any changes and manage if required.
    - d) There are no known environmental or ecological constraints.
    - e) The Contractor shall provide evidence detailing the radar penetration depth of the GPR equipment.
    - f) The Contractor shall provide evidence that the surveyor undertaking the GPR survey has received all relevant trainings.

- g) Details shall be provided to demonstrate the Contractors Survey method quality control procedure in accordance with 5.21 of CS551.
- The classification of the site for the use of electrical equipment in potentially explosive atmospheres, in accordance with DSEAR S.I. No. 2776 [Ref 2.I], is the site is classified as Zone 2.
  - Existing data within HADDMS shall be roundtripped in accordance with section 5.3 to Section 5.6 of CS551.
  - The responsibility for traffic management will be by others arranged by the Overseeing Organisation's representative.

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