

National Asset Delivery
Technical Surveys and Testing

Works Information for 605205 A42 J14
to M1 Electrical Renewals – GPR &
Trial Holes Survey

CONTENTS AMENDMENT SHEET

Amend. No.	Revision No.	Amendments	Initials	Date
0	0	Original version issued with tender	RAS	01/04/21
1	1	Trial/slot trenches added	RAS	06/07/21

TABLE OF CONTENTS

1	Description of the works	4
2	Existing Information	Error! Bookmark not defined.
3	Constraints on how the Contractor Provides the Works	6
4	Requirements for the programme	8
5	Services and other things provided by the <i>Employer</i>	9
6	Specification for the works	10

LIST OF ANNEXES

Appendix 1 **Supplementary Constraints**

1 DESCRIPTION OF THE WORKS

1.1 Project objectives

1.1.1 The principal objective of this project is to carry out Ground Penetrating Radar followed up with trial pits to confirm the GPR. Then subsequently provide associated reports & dwgs

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:

Category	Survey Description
Utility Survey	GPR/trial pits in accordance with PAS 128:2014 Type A & B. GPR carried out in area shown on dwgs.

1.3 Deliverables

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

- (1) An appropriate individual to attend pre-commencement site inspection & client meeting.
- (2) The *Contractor* is to provide plant, materials & labour to carry out all project objectives stated in this document.
- (3) Plant, materials & labour to carry out GPR and trial pit survey on site for the timings as stated in section 3 and specification as stated in section 6.
- (4) CAD dwgs, on GPR findings as detailed in section 6 within 2 weeks of works being completed on site.
- (5) Reports as detailed in section 6.

2 EXISTING INFORMATION

2.1.1 The Drawings listed below apply to this contract.

Drawing Number	Title	Revision / Date
HE605205-KIER-VGN-A42_M1-DR-CH-0100 01 to 08	Proposed GPR location sheet 2 of 8 to 08 of 08	P01
HE605205-KIER-GEN-A42_M1-DR-Z-0000 01	Location Plan	P01
HSD-KIER-VTO-AREA7-DR-C-05	Typical Survey Requirements on Embankments & Cuttings	C1

2.1.2 Refer to the site information for details of existing site conditions including ground conditions, limitation on access, position of existing structures etc.

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 20:00 to 06:00hrs and weekend working will be allowed with agreement of the client

3.2.2 Provisional Road space has been booked for 6th to 25th September 2021 inclusive.

3.2.3 The *Contractor* to submit a detailed proposed programme at tender.

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 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 will be made available upon award.

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.
- 3.3.8 Highways England have identified the following risks associated with the works
- Underground Services
 - Potential Asbestos
 - Journey Time Reliability
 - Environmental
 - Access/Egress and movement around site

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 services and other things provided by *Employer* (see Section 5)
 - (ii) The *Contractor* is to allow for a pre-start meeting to develop the programme.
 - (iii) Survey results are expected to be returned within two weeks of the survey completing on site.
 - (iv) Welfare facilities are to be in place prior to works commencing on site.
 - (v) Coordination of survey in conjunction with other CWF disciplines.
 - (vi) 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.
- 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 Temporary Traffic Management will be provided by others.
- 5.1.2 The proposed Traffic Management is expected to consist of night-time full closures of the A42 Northbound from junction 14, full closure of the A42 Southbound from Finger Farm RBT, various main line lane closure on M1, line closures on slip roads with some full slip closures. A453 lane closures and ring management of the A453 Finger Farm RBT where required. These TM requirements will be phased in order to minimise disruption to the travelling public (see document 'Provision Programme of Closures - M1 J23A A42 Street lighting survey').
- 5.1.3 There will be provision to escort pedestrian's and cyclist's through the works area if acceptable by the Traffic Management contractor and client. All the above TTM is to be confirmed before works start.

Roadspace on Highways England Area 7 network and Leicestershire County Council is to be managed by the principal contractor in coordination with the TM contractor.

- 5.1.4 The other things that will be provided by the *Employer* are as follows:
- (1) Welfare facilities are to be provided by the principal contractor (the TM provider), needs are to be identified by the *Contractor* and communicated with the principal contractor.
 - (2) Desktop search for utility information (Type D) survey has been completed and is available in the Stats folder.
 - (3) Where necessary, site/vegetation clearance to ensure the survey can be carried out effectively will be carried out by others under the direction of the *Employer*.

6 SPECIFICATION FOR THE WORKS

The name of the contract is "A42 J14 to M1 Electrical Renewals".

GPR surveys are to facilitate the design/installation of street lighting equipment at this interchange.

The works extents are shown on drawing HE605205-KIER-GEN-A42_M1-DR-Z-0000 01 and works are shown on drawings HE605205-KIER-VTO-A42_M1-DR-CH-0100 02-08

Underground utility detection, verification and location Survey

The following information specifies the scope, survey type accuracy and deliverables required for this survey.

It is to be noted that a desktop search for utility information (Type D) has already been carried. This information will be provided to the *Contractor* at the tender stage. The *Contractor* is not required to send out for this information again.

The following surveys are to be carried out in accordance with PAS 128:2014. The details of how the specified survey type is to be carried out, including methodology and deliverables are included in this document. Further information is included below.

Type B survey

Type B survey shall be undertaken using geophysical techniques to detect and identify utilities within the survey area. The following parameters apply;

- Quality level shall be QL-B1P with post processing. Multiple geophysical techniques shall be used as detailed in PAS 128:2014
- The level of detection method is anticipated to be M2 to achieve the quality level defined above.

A method statement, programme of works, risk assessment and safety plan for the survey shall be submitted to the client before commencing work on-site.