

National Asset Delivery
Technical Surveys and Testing

Works Information for A40 Over Deck
Trial Holes Survey

Scheme PIN: 603635

	Name	Signed	Date
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CONTENTS AMENDMENT SHEET

Amend. No.	Revision No.	Amendments	Initials	Date
0	0	Original version issued with tender	MD	06/10/20
1	1	Revision to proposed traffic management	MD	16/10/20
2	2	Added Scheme Pin Number and Specification for Soil Sampling	MD	28/10/20

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LIST OF ANNEXES

Appendix 1 **Supplementary Constraints**

Appendix 2 **Soil Sampling Specification**

1 DESCRIPTION OF THE WORKS

1.1 Project objectives

1.1.1 The principle objective of this project is to undertake trial holes survey to the carriageway and central reservation area of the A40 Over Bridge which will be affected by the proposed bridge refurbishment works and to provide the results in the format as detailed in the specification.

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) Trial hole on the A40 central reserve in order to extract soil samples for testing.
- (2) Trial holes on the A40 Over Bridge Deck to enable inspection and testing of exposed concrete deck to determine concrete condition.
- (3) Trial Hole works are to take place in conjunction with other survey works being undertaken by others, with access to the excavated elements required by others as necessary. Traffic management will be arranged, provided and funded separately by Highways England. The Contractor shall identify the type of Traffic Management require to suit their method of working.

1.3 Deliverables

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

- (1) Trial hole logs, complete with trial hole dimensions and locations.
- (2) Survey Report
- (3) Programme
- (4) Risk Assessments and Method Statements
- (5) Identify type of Traffic Management require to complete the site works.

2 EXISTING INFORMATION

2.1.1 The A40 Over Bridge carries the A40 over the River Severn adjacent to the village of Over in Gloucestershire towards the roundabout joining Over Causeway, the A40 and the A417. The carriageway at this location comprises a dual two-lane carriageway.

OSGR: 381593E, 219641N (EB); 381597E, 219621N (WB).

2.1.2 An Asbestos Action Plan for the structure exists dated April 2007 following a survey and testing carried out in March 2007 in which no asbestos containing materials were located. A survey was also carried out in May 2017 in which testing reported no asbestos containing materials.

2.1.3 Cores were taken on both the eastbound and westbound carriageways about 175m west from the west expansion joint of the structure in 2018.

2.1.4 The Drawings and documents 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
HE603635-KIER-SBR-A40_BR_6710-DR-CB-010001	Location Plan	P1
HE603635-KIER-SBR-A40_BR_6710-DR-CB-010002	Statutory Undertakers Information	P1
HE603635-KIER-SBR-A40_BR_6710-DR-CB-010003	Trial Pit Location Plan	P2
MNV.STR.1048.018.P1	Asbestos Action Plan	P1
A40 MP 170.4 Over Bridge Soil Sampling Specification	Soil Sampling Specification	Oct 2020

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 Consultant's working hours for site works shall be 21:00 – 05:00.

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 When implemented, 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 HE603635-KIER-SBR-A40_BR_6710-CDM-CB-0001 supplied with this document. This should be read in conjunction with 'HE603635-KIER-SBR-A40_BR_6710-CDM-CB-0002'.

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.

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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 estimated *starting date* (11/01/2021) and estimated *completion date* (26/02/2021), any post site works, reporting and review period
 - (ii) The services and other things provided by *Employer* (see Section 5)
 - (iii) The timing of the works will be subject to the availability of road space, traffic management and any site-specific environmental constraints.
 - (iv) The survey report should be available within two weeks of the completion of the fieldwork.
- 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) For each activity, the proposed resources (plant & labour) expected to deliver each activity should be shown on the programme.
 - (iii) Review periods for any reporting requirements.
 - (iv) Key dates for the Client to provide 'services and other things.
 - (v) Key dates for co-ordination with Others.
- 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 a CWF Contractor as appointed by the *Employer* to allow the *Contractor* to Provide the Works:

(1) Actual Traffic Management arrangement are not confirmed at this stage; the proposed layouts are as follows

- Trial Pit P1, TP3, TP4 and TP6 to be completed under closure of Westbound Lane 1 and Slip Road.
- Trial Pit TP5 and TP8 to be completed under closure of Westbound Lane 2.
- Trial Pits TP2 and TP7 to be completed under closure of Eastbound Lane 1.

5.1.2 The traffic management provider will act as the Principal Contractor.

5.1.3 The other things that will be provided by the *Employer* are as follows:

(1) Welfare facilities will be provided by the principal contractor.

6 SPECIFICATION FOR THE WORKS

6.1.1 The *Contractor* shall undertake the works in accordance with:

- a) Indicative locations of trial holes are shown on Drawing HE603635-KIER-SBR-A40_BR_6710-DR-CB-010003. Locations are to be agreed prior to works and will again be agreed and confirmed on site.
- b) Trial holes shall be hand dig in the soft state material, in accordance with the MCHW Vol 5, Section 3, Part 4 and in accordance with BS 5930:2015 and PAS128.
- c) A CAT scan shall be carried out to detect below ground services prior to trial pitting.
- d) All trial holes must be excavated by suitably trained and competent persons (Category B) in accordance with the Control of Asbestos Regulations (CAR) 2012.
- e) Where Services are found, they must be exposed to allow material, size, depths and spacing to be accurately measured in line PAS128.
- f) Care must be taken not cause damage to the structure. Any accidental damage shall be notified to the relevant highway authority. Repairs of any accidental damage shall be the responsibility of the Contractor and shall be agreed with Highways England.
- g) Contractor to produce a survey report to clarify the findings of the trial holes, including suitable cross section drawings to reference for the design and works of the A40 Over Deck scheme.
- h) Contractor to feedback any concerns for clashes between proposed works and any STATS or existing highways furniture.