

**National Asset Delivery  
Technical Surveys and Testing**

**Works Information for M5 Blackbrook  
Interchange Crossovers – Asbestos  
Testing**

**CONTENTS AMENDMENT SHEET**

<b>Amend. No.</b>	<b>Revision No.</b>	<b>Amendments</b>	<b>Initials</b>	<b>Date</b>
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## 1 DESCRIPTION OF THE WORKS

### 1.1 Project objectives

#### 1.1.1 The principle objective of this project is:

complete a review of the completed refurbishment and demolition asbestos survey and conduct further testing within area highlighted on drawings HE603426-KIER-VDS-M5\_J25\_MP\_205.0-210.2\_Z-DR-CB-00002 in order to establish if there are any ACMs present that may be affected by the construction of the proposed crossovers.

#### 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) Complete a desktop study of the existing asbestos information to identify any additional areas that may requires testing in addition to those highlighted on drawings HE603426-KIER-VDS-M5\_J25\_MP\_205.0-210.2\_Z-DR-CB-00002.
- (2) Complete a targeted asbestos survey on site. Testing to include highlighted area on drawings HE603426-KIER-VDS-M5\_J25\_MP\_205.0-210.2\_Z-DR-CB-00002 and any additional areas highlighted from the desktop study.
- (3) The Contractor is to carry out suitable investigation to confirm the presence of asbestos on the drainage asset within the highlighted area on drawing HE603426-KIER-VDS-M5\_J25\_MP\_205.0-210.2\_Z-DR-CB-00002 and which has not been previously inspected.

It is proposed that the Contractor takes a minimum of 2no samples on drainage pipes for each size and type of material (concrete and pitch fibre).

The Contractor is to carry out additional sampling if concrete/pitch fibre pipes appear to be from different sources throughout the surveyed area.

The Contractor is to any previous drainage survey information undertaken to target sections of the asset to be tested as proposed above and in accordance with specifications in paragraph 6 and taking into consideration the TM arrangement agreed with the *Employer* and TM Contractor. Any existing drainage survey information is included within the survey package information.

- (4) The Contractor shall carry out additional representative sampling on other drainage assets if deemed required (chambers, covers, etc....). The survey shall also include for the identification and assessment of asbestos packers/biscuits used beneath chambers and gully covers.

- (5) The Contractor is to inspect and sample any other suspected Asbestos containing Material which has not been previously inspected / tested.

Please note that the filler board/caulking material potentially present below the bridge joint in gaps between deck and abutment does not need to be tested as it will be assumed that it will have at least been contaminated by the asbestos waterproofing material and therefore will be treated as ACM.

- (6) In the event that excavation of the carriageway is required, The Contractor is required to submit details of the method of works and material to be used to reinstate the surfacing. These details should be submitted to the *Employer* for approval.
- (7) Report back results/findings of the Asbestos testing / inspection carried out. The report should include findings of the Desktop study, a targeted asbestos survey report including photos of the investigated areas and drawings showing where samples have been taken from along with lab test results.

### **Deliverables**

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

- (1) A copy of the completed desktop study report
- (2) A copy of the targeted asbestos survey report including the locations of where samples were taken from and test results.

## 2 EXISTING INFORMATION

### 2.1.1 Existing STATS

Motorway Communication cables located in the Southbound carriageway verge

Note, the successful survey contractor should consult with the Principal Contractor of the technology scheme during mobilisation to determine if any new services have been installed as part of the works but not noted on the STATS returns yet.

Low pressure Gas main traversing the M5 at approx. MP205/0+45m. Survey activity will not interact / affect the statutory undertaker's apparatus.

Overhead electricity cable traversing the M5 at approx. MP205/4+15m. cables present outside of survey area; however presence should be noted. Survey activity will not interact / affect the statutory undertaker's apparatus.

See drawing HE603426-KIER-VGN-M5\_J25\_MP\_205.0-210.2\_Z-DR-CB-0004 for more information on the existing STATS

Please note that the information shown on this drawing are extracted from C2 Stats returns and shall be considered as indicative only. No liability can be accepted for any inaccuracies in the information given. The Contractor shall satisfy themselves as to the exact position of the statutory undertakers or any other public or privately-owned services or supplies affected by the works. The Contractor shall obtain their own stats return prior to the start of the works.

### 2.1.2 Existing Drainage Arrangement:

Refer to Site Information for details

### 2.1.3 Existing Structures:

Refer to Site Information for details

### 2.1.4 Asbestos

The initial AAP for M5 J24 to J27 S/B & N/B was compiled in 2008 with an additional review being completed in 2013. See asbestos checklist for more information.

If any Asbestos Containing Materials that have not previously been identified are found, all works shall stop immediately, and the area is to be isolated from the workforce. The contractor must implement the necessary emergency response procedures in line with the company policy.

**2.1.5    The Drawings listed below apply to this contract**

## Scheme Drawings

Drawing Number	Title
HE603426-KIER-VDS-M5_J25_MP_205.0-210.2_Z-DR-CB-00002	Drainage and Asbestos Survey Area
HE603426-KIER-VGN-M5_J25_MP_205.0-210.2_Z-DR-CB-00004	Statutory Undertakers Plan

### 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 are anticipated to be 21:00-05:00, working under a series of lane closures with a temporary speed limit of 50mph. The anticipated working hours are dependent on the carriageway traffic counts.
- 3.2.2 **Work Constraints**

#### HEALTH, SAFETY AND ENVIRONMENT & RISK MANAGEMENT

##### Health and Safety requirements

- 3.2.3 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to health and safety duties.
- 3.2.4 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.
- 3.2.5 For details of the CDM duty holders, refer to the pre-construction information which is included as part of the TST package.
- 3.2.6 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

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

##### Risk Management

- 3.2.8 The *Contractor* identifies, manages and mitigates risks in accordance with the principles of ISO31000.



- 3.2.9 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.

The contractor should refer to the Pre-construction information and Design Hazard Checklist and Risk Reduction Schedule provided as part of the TST package.

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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 *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:
- 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
  - Duration of each activity with proposed resources (plant & labour) expected to deliver each activity should be shown on the programme;
  - Key dates for the Employer to provide "services and other things"
  - Key dates for Adjacent site activities from other surveys/other works
  - Review periods for any reporting requirements
  - Key dates for information will be provided to the *Employer*
- (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 *Employer* to allow the *Contractor* to Provide the Works:

- (1) A series of lane closures with a temporary speed limit of 50mph If works are being completed in the Hard shoulder/Lane 1 then Lane 2 should also be closed with Lane 3 open to traffic. If works are being completed in Lane 3 and the Central Reservation then Lane 2 should also be closed with traffic running in lane 1. A lane 3 closure should also be provided on the opposite carriageway when works are being completed in the Centre reservation.
- (2) Traffic management requirements will be finalised during mobilisation with the successful contractor.

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

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

## 6 SPECIFICATION FOR THE WORKS

- 6.1.1 The *Contractor* shall undertake the works in accordance with the guidance set out by the HSE within HSG264, CAR Regulation 8, GD 5/16 and all other relevant standards.
- 6.1.2 All reports and survey findings should be provided in a PDF format on completion of the works. Photographs, sampling records and lab testing reports should also be provided.

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